



# **PRODUCT DIRECTORY EDITION LED**

VALID FROM 01.01.2018

LED luminaires  
Luminaires for RIDI TUBE

**RIDI**

**RIDI Product Directory, EDITION LED**  
**LED luminaires**  
**Luminaires for RIDI TUBE**

valid from 01.01.2018

The details provided in this Product Directory were prepared with due care but are still subject to error. We retain the right to make formal, technical and pricing changes. This Product Directory supersedes all previous editions.

In case of orders relating to large-scale projects, and in particular involving invitations to tender, please enquire to receive a "special" project based quotation.

All deliveries are subject to the RIDI UK General Terms and Conditions.

**Please note:**

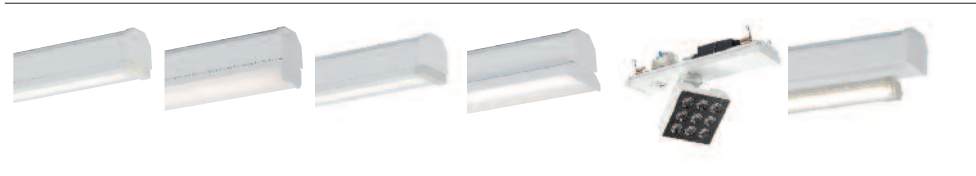
• **High protection rating luminaires**

Our surface-mounted, recessed and diffuser luminaires with protection rating IP54 and higher are described under the heading "High protection rating luminaires".

• **Luminaires for conventional lamps**

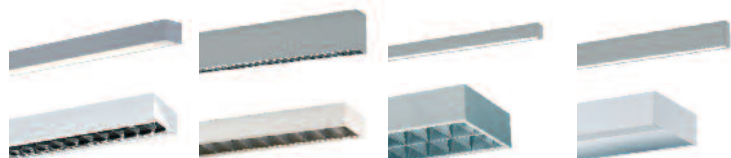
Due to the fundamental technological changes taking place and the resulting diversity of LED luminaires, this RIDI Product Directory contains exclusively LED luminaires of all kinds and LED lamps.

Luminaires for conventional lamps are described in our - Product Directory Edition "conventional" - which can be ordered in the service area of our website at [www.ridi.de](http://www.ridi.de).



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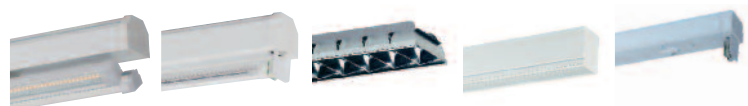
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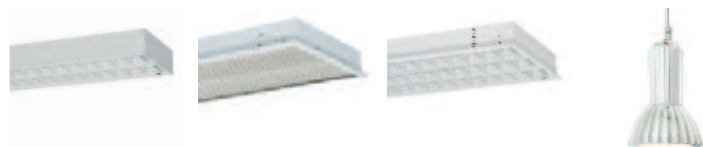
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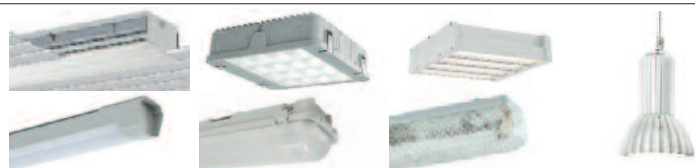
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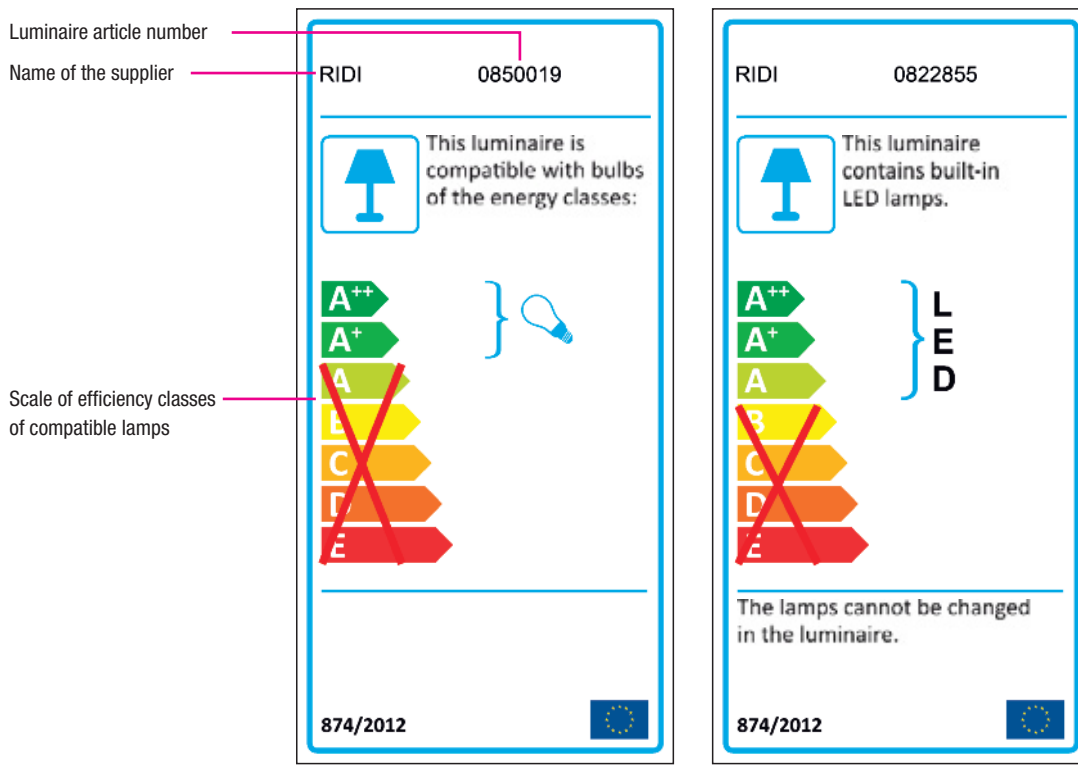
# Energy consumption labelling in compliance with EU Regulation 874/2012

## Energy consumption labelling in compliance with EU Regulation 874/2012

The luminaire label used to indicate energy consumption contains information on the compatibility and the energy efficiency of any lamps supplied with the luminaire. It does not apply to the energy efficiency of the luminaire.

The labels are available online at [www.ridi.de](http://www.ridi.de) in the product area as a PDF file available for download. The regulations state that they should be presented to the end user at the point of sale. The label does not form part of the packaging.

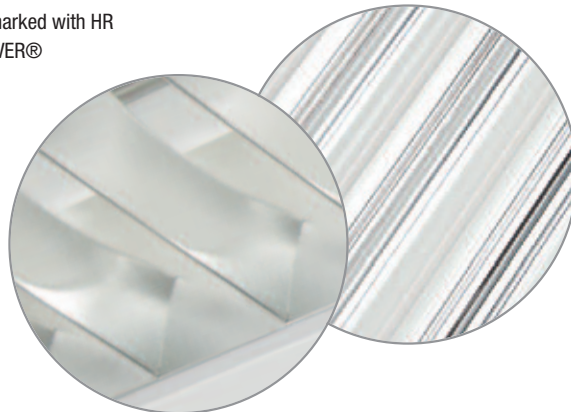
The energy efficiency classes are listed in this catalogue in product index from page 406 (column EEC).



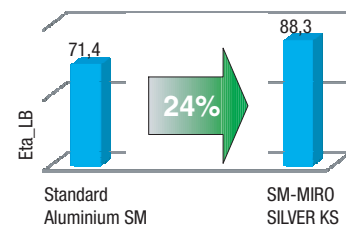
## HR – high-quality reflector material for high efficiency



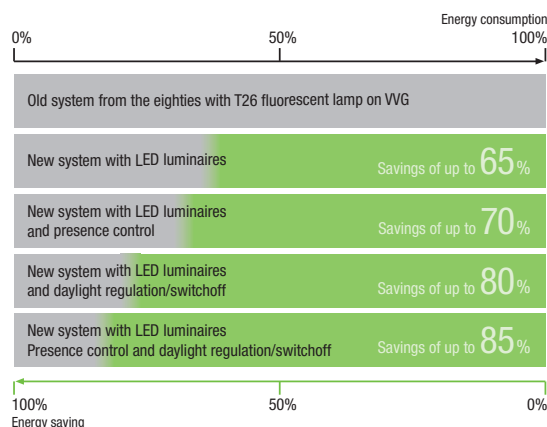
RIDI produces all products marked with HR using high-quality MIRO-SILVER® reflector material.



Total reflection of 98% using MIRO-SILVER® reflector material. Efficiency compared to conventional standard specular aluminium enhanced by up to 24%.



### Additional energy savings through the use of presence and daylight-dependent light control elements.



### Savings of up to 85% by using:

- Highly efficient louvre and reflector materials
- Presence-dependent control
- Daylight-dependent control
- LED

**Table structure: Luminaires for RIDI TUBE lamps**

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]				LE*	BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	LE*	BE*					
EBRE6-R1X115/30xx-SM	1xR-TUBE 30 W	E, F	1247	115	71	1229	102	1 2 4 6	0850019	0860019		
EBRE6-R1X145/35xx-SM	1xR-TUBE 35 W	H, I	1547	115	71	1529	102	1 2 4 6	0850022	0860022		
EBRE6-R2X115/30xx-SM	2xR-TUBE 30 W	E, F	1247	310	60	1229	292	1 2 4 6	0850004	0860004		

**Ceiling types**

- 1 Ceilings with wide area plaster board and mineral fibre boards, wood panelled ceilings
- 2 Ceilings with concealed support rails and symmetric mineral fibre and plaster board
- 3 Sprung metal tile ceilings
- 4 Ceilings with exposed T-bars
- 5 Ceilings with concealed support rails asymmetric mineral fibre board and sprung metal tiles
- 6 Continuous trim-strip ceilings
- 7 Metal plank ceilings
- 8 Mineral fibre board ceilings for sports hall luminaires
- 9 Metal plank ceilings for sports hall luminaires

**Maximum lamps**

Indicates the maximum number of possible lamps. However, RIDI TUBES are usually also available with a lower output than that indicated.

**R-TUBE category:** RIDI TUBES are listed on the inside flap of the back cover and subdivided into categories according to length and wattage. Based on the categories stated in the tables, the right RIDI TUBE can be determined at a glance.

The light colour (830, 840 or 865) and cover (clear, matt or opal) can be freely selected. The cover specified for each luminaire is the factory recommendation to obtain optimum light quality.

**Purchase order number of the luminaire**

- With **el. conv.:** electronic, non-dimmable converter for LED. In the type designation, replace "xx" by "ND".
- With **dim. conv. DALI:** dimmable electrical converter for LED, compatible with the DALI standard. Dimming range generally 1-100%. In the type designation, replace "xx" by "DA".

**Table structure: Luminaires with pre-fitted LED modules**

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]				LE*	BE*	Ceiling type	el. conv. Prod. code	dim. conv. DALI Prod. code
							B	H	LE*	BE*					
EBRE-LED 236/2500-830 OS	2xLED-M 8 W	1938	16	121	830	1247	310	90	1229	292	1 2 4 6	0822855	0832855		
EBRE-LED 236/2700-840 OS	2xLED-M 7 W	2093	16	130	840	1247	310	90	1229	292	1 2 4 6	0822839	0832839		
EBRE-LED 236/5000-830 OS	2xLED-M 15 W	3875	32	121	830	1247	310	90	1229	292	1 2 4 6	0822851	0832851		

**Luminaire luminous flux** = Module luminous flux x LOR

**Luminaire output** = LED output + power loss of the converter

**Luminaire efficiency** = Luminous flux : Luminaire output

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed on our website. ("tba" = Value was not yet available at the time of going to print)

**Purchase order number of the luminaire**

- With **el. conv.:** electronic, non-dimmable converter for LED.
- With **dim. conv. DALI:** dimmable electrical converter for LED, compatible with the DALI standard. Dimming range generally 1-100%

**Dimensions (mm)**

<b>A</b>	Length of wall bracket	<b>DE max</b>	Maximum recessed mounting diameter
<b>A1</b>	Fixing distance length ceiling	<b>DE min</b>	Minimum recessed mounting diameter
<b>A2</b>	Fixing distance width ceiling	<b>H</b>	Luminaire height
<b>A3</b>	Fixing distance length continuous mounting luminaire to luminaire	<b>H1</b>	Reflector height / diffuser height
<b>A4</b>	Fixing distance from the outside	<b>H2</b>	Luminaire height including fastening
<b>AB</b>	Fixing distance continuous mounting	<b>H3</b>	Height of other optical controls
<b>AB1</b>	Fixing distance 1 continuous mounting	<b>H4</b>	Height dimension between two reference points
<b>AB2</b>	Fixing distance 2 continuous mounting	<b>HE</b>	Recessed mounting height
<b>AE</b>	Fixing distance pendant length single mounting	<b>K</b>	Distance cable entry
<b>AE max</b>	Maximum fixing distance pendant length single mounting	<b>K1</b>	Distance cable entry length (lamp length)
<b>AE min</b>	Minimum fixing distance pendant length single mounting	<b>K2</b>	Distance cable entry width
<b>AE1</b>	Fixing distance width pendant mounting	<b>L</b>	Luminaire length / wall light width
<b>B</b>	Luminaire width / wall luminaire depth	<b>L1</b>	Luminaire length without end cap / reflector length / EBD gear tray length (without fixing lug)
<b>B1</b>	Reflector width / diffuser width / EBD gear tray width	<b>L2</b>	Luminaire length, top
<b>B2</b>	Luminaire width top	<b>L3</b>	Illuminated area length
<b>B3</b>	Diffuser width	<b>L4</b>	Length dimensions between 2 reference points
<b>B4</b>	Width dimension between 2 reference points	<b>LE</b>	Length ceiling cut-out
<b>BA max</b>	Maximum ceiling cutout square	<b>S max</b>	Maximum ceiling thickness
<b>BA min</b>	Minimum ceiling cutout square	<b>S min</b>	Minimum ceiling thickness
<b>BE</b>	Width ceiling cutout	<b>Q</b>	Luminaire dimensions square
<b>D</b>	Luminaire diameter / diffuser diameter	<b>X</b>	Gap with recessed ceiling mounting (e.g. VENICE-A / U-LINE-mini)
<b>D1</b>	Reflector diameter / luminaire diameter top	<b>LS</b>	Modular ceiling length
<b>D2</b>	Internal diameter	<b>BS</b>	Modular ceiling width
<b>DA</b>	Surface mounting diameter (periphery)		

## Disposal (WEEE) / RoHS

### WEEE - Directives on end-of-life electrical and electronic equipment

WEEE – Waste from Electrical and Electronic Equipment

### Return and disposal of non household technical luminaires in the UK

The European WEEE directive obliges all manufacturers, importers and distributors of electrical and electronic products to take back end-of-life luminaires when these are no longer required.

In the UK, the European Directive has been implemented via LUMICOM Ltd.

In the UK, technical luminaires fall within the scope of this legislation.

RIDI UK undertakes responsibility for the disposal of all RIDI products distributed since 13th August 2005. The relevant products are marked by a symbol showing a wheelee bin crossed through with a black bar underneath it.



**RIDI UK has commissioned the company LUMICOM Ltd. with disposal of products distributed by RIDI UK since.**

**Details of nearest location for return deliveries of end-of-life luminaires are published on the LUMICOM Ltd. website.**

The last owner must observe the following points:

- Acceptance and disposal of luminaires bearing the described symbol takes place exclusively through the disposal service provider commissioned by RIDI UK.
- Luminaires can be returned from March 24, 2006 onwards.
- The costs for delivery of end-of-life luminaires to the disposal facility is borne by the last owner
- RIDI UK is registered in the LUMICOM System under registration number WEE/DD 0073UQ.

### RoHS - the restriction of the use of certain hazardous substances in electrical and electronic equipment

RIDI UK hereby declares that all of its products dated from July 1, 2006 onwards comply with the requirements of the RoHS Directive 2002/95/EEC.



## Certification to DIN EN ISO 9001:2008

Effective quality management and the associated high aspirations of quality assurance in the fields of development, production, assembly and maintenance are a top priority for RIDI in every one of its producing locations. RIDI makes a commitment to its customers to provide products which are technically flawless, safe and practically maintenance free. The toughly competitive marketplace, rising customer expectations and the high product standard we set ourselves call for a strict policy of continuous quality improvement.

RIDI is happy to meet this challenge, organizing regular audits by the VDE in compliance with ISO 9000 series of standards.

The RIDI quality management system is based on eight principles:

- Customer focus
- Management responsibility
- Inclusion of all involved staff members
- A process-oriented approach
- A system-oriented management approach
- Continuous improvement
- Factually based decision making
- Mutually beneficial supplier relations

Impartial and detailed auditing carried out at regular intervals by the VDI Institute guarantee compliance with the stringent demands of quality management as set out in ISO 9000.





## RELUX

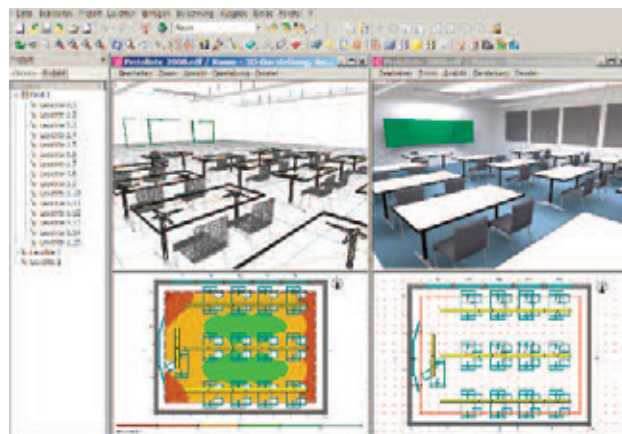
**RIDI is a member of Relux. The latest luminaire data for Relux can be downloaded in the Internet at <http://www.ridi.de/de/service/downloads.html>**

**ReluxSuite** – the free lighting planning software for lighting and sensor planners  
The package contains the following programs: ReluxPro, ReluxSensor, ReluxOffer, ReluxEnergy  
The programs are optimally tailored to each other and guarantee the best results. You additionally receive a large amount of current product data from luminaire, lamp and sensor manufacturers.

The programs can be used with Windows Vista and Windows 7 or 8, 32 or 64 bit. We recommend the following minimum system configuration: CPU Dual Core with > 2 GHz clock frequency, graphic card supporting OpenGL, approx. 1 GB free memory space on the hard disk.

Program functions RELUX

- 2D/3D modeller
- Easylux Assistant for express processing
- Luminaires/ bulb and sensor database with more than 300,000 products
- Material/textures/furniture library
- Light simulation in 2D/3D by the radiosity method
- Generation of isolines, pseudocolours and 3D light distribution diagrams
- Renderer using the raytracing method for perfect pictures
- Moviemaker and 3D-stereo presentation
- Cost-efficiency analysis of luminaires
- Output manager with integrated PDF generator
- Interior rooms and outdoor projects to EN 12464
- Emergency lighting to EN 1838
- Rooms, zones, storeys, properties to the EN15193 and DIN18599 standards



Import: DXF, DWG for 2D, DXF, 3DS, WRL for 3D, JPG, PNG, WMP for pictures

Export: DXF, DWG for scenes, HDR for simulations, XLS for lists, AVI, JPEG, BMP for films

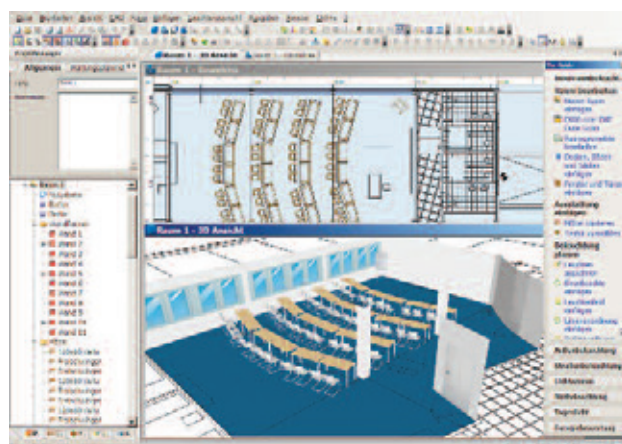
## DIALux

**RIDI is a member of DIALux. The latest luminaire data for DIALux can be downloaded in the Internet at <http://www.ridi.de/de/service/downloads.html>**

The DIALux calculation program featuring lighting data from a wide range of wide range of international manufacturers is available free of charge and offers the following range of functions:

What is special about DIALux?

- Daylight: Perfect calculation and visualization.
- Lighting scenarios: Realistic planning and documentation.
- Up-to-date: Easy compliance with national and international standards.
- Emergency lighting: in accordance with EN 1838, simple positioning of exactly the right number of luminaires along escape routes and in anti-panic zones.
- Calculation: latest radiosity procedures, fast and always correct.
- Colour: Lighting design with colour filter colours light sources and materials.
- Interactive 3-D visualization: Simply move around the room.
- Visualization: Use of textures and furniture for realistic rendering.
- Photo realism: with integrated ray tracing module.
- False colours: False colours provide quantitative analysis of complex geometries at a glance.
- Results: Results can be printed out or transmitted as a pdf file. Each view and each rendering can be saved as a .jpg file.
- Interaction: Import and export: .dwg and .dxf files can be imported and exported with results after completion of the planning process.
- 3-D Import: Integration of complete buildings as 3-D objects.
- DIALux Light: Easy to use, step-by-step lighting design.
- Assistants: On request they help in the planning of indoor and street lighting.
- Drag and drop: The simple way to place furniture, surfaces (textures) and luminaires in the room.
- Alignment of luminaires: One click on the light aiming point is enough.



- Intelligent elements: Wall lights are always positioned correctly on the wall and the computer is always on the table.
- Guides: These lead you step by step through special questions related to lighting design
- Energy assessment in accordance with DIN V 18599 and EN 15193

# LED-MODULES

# LED

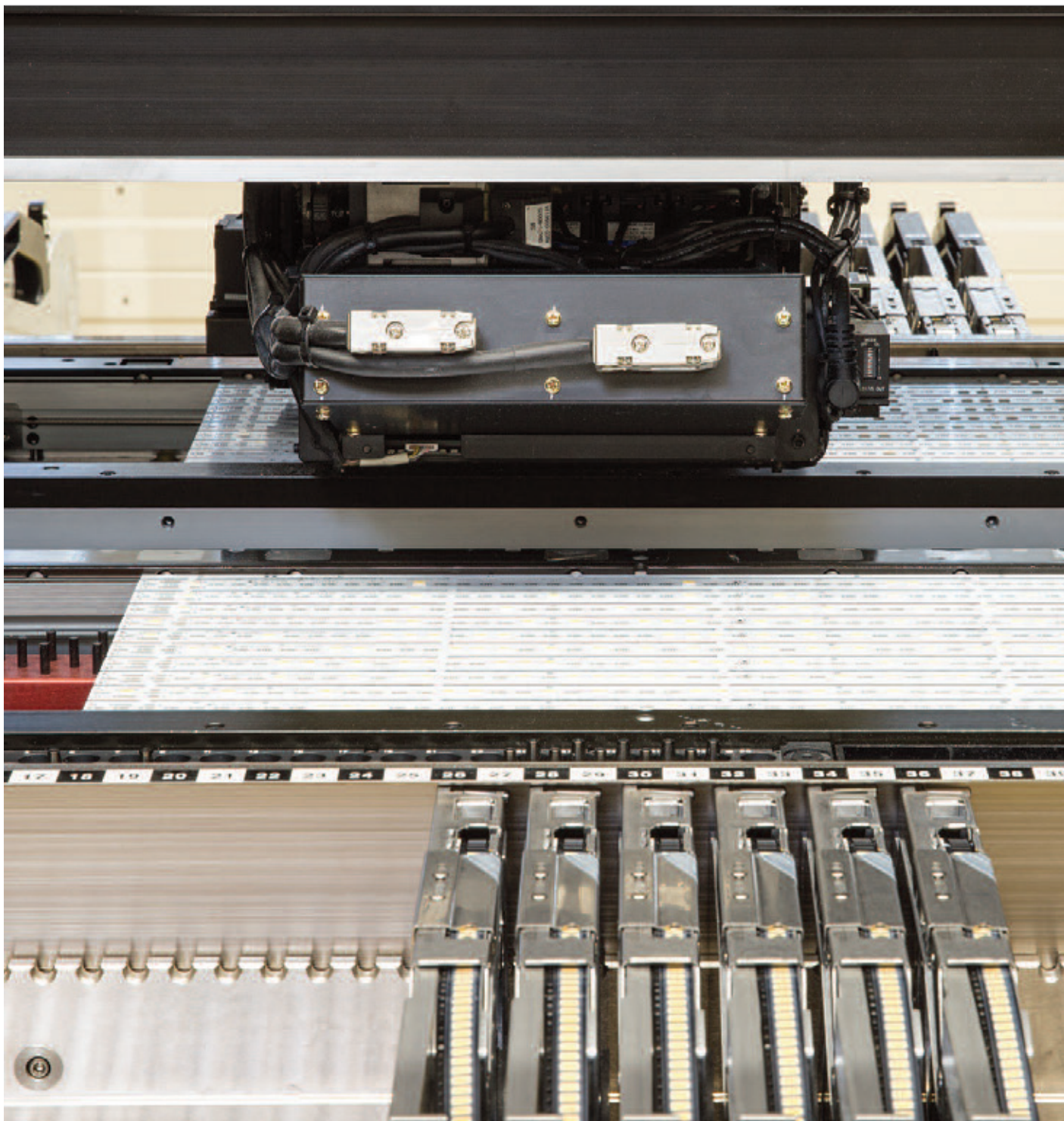
## led-modules

### **LED – The benefits at a glance:**

- Long service life of up to 50,000 hours reduces maintenance costs
- High energy efficiency, specifically in conjunction with light management systems
- No UV radiation
- No infrared radiation, low thermal load in the light cone
- Good colour rendering
- 100% light immediately on activation – no flickering
- LEDs are dimmable
- High switching resistance
- LEDs are highly durable, impact and vibration resistant
- Free of mercury

made by RIDI

# MADE BY RIDI



## Boards produced in-house

With its own in-house LED assembly line, RIDI is able to produce specially adapted LED modules to respond to changing demands made on lighting technology and design.

This specialist manufacturing process enables the development of adapted LED lamps, ensuring an optimum interplay between lamps and electrical control components to ensure the best possible light yield.

This results in a level of efficiency unmatched by retrofit solutions.

RIDI LED Management is based in the parent plant in Jungingen in Southwest Germany, and is dedicated to the development of LEDs, non-standard designs and in-house assembly. Independently of external suppliers, RIDI is able to respond with the utmost flexibility and speed to the growing demands imposed on lighting technology and luminaire design.

Flexible fitting with LEDs and subsequent connection of individual modules are possible in wide-ranging different shapes, dimensions, luminous intensities and light colours. The flat and linear modules are adjusted to the relevant luminaire types, so ensuring optimum illumination.

Another quality benefit of in-house fitting is that ESD damage on the circuit board can be excluded by taking the relevant precautions and reducing the amount of handling required.



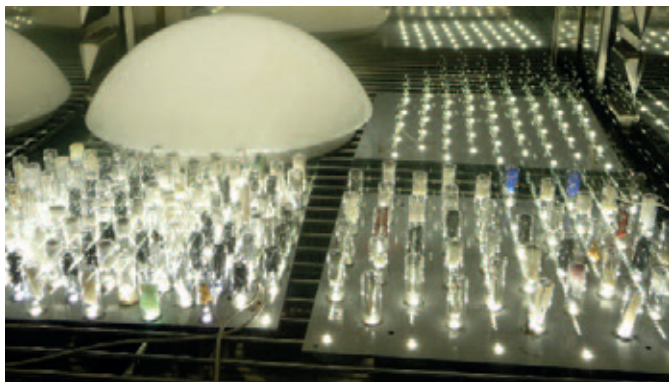
## Quality inspections

To ensure that it supplies only the very best quality, RIDI imposes strict demands on its own production and the materials it uses. LED modules or the supplied LEDs are subjected to exhaustive testing and strict controls to ensure that they live up to our aspiration of “Quality made by RIDI”.

### 1. Testing of LEDs prior to production

To ensure identical output parameters, LEDs from different manufacturers are mounted on a test pcb and measurements taken. The photometric characteristics are determined and verified by measurements using spectroradiometers, Ulbricht spheres and photogoniometers.

Compatibility with materials and substances which could influence the LED quality are performed by testing at elevated temperatures in temperature cabinets. This compatibility test entails placing a test glass containing the relevant substance above the LED.



### 2. In-process testing

The testing of LED modules is carried out on an automated basis in respect of light flux, colour temperature, CRI and current consumption.

For this, the LED module is operated using a high-precision power supply unit at a defined current level. In case of minor deviations from the pre-set current level, if a fault exists on the LED module, it can be immediately rectified.

The solder points of the LEDs are x-rayed at regular intervals for cavities. This indicates how many bubbles have been created during soldering and whether the solder points comply with the quality standards set out by RIDI. The tests are rounded off by an additional microsection analysis.

With the aid of environmental simulation tests, samples of the LED modules are tested using climatic cabinets. The mechanical strength of the complete luminaire and LED solder points is ensured by means of torsion and vibration testing, while thermal load resistance is tested in temperature cabinets.

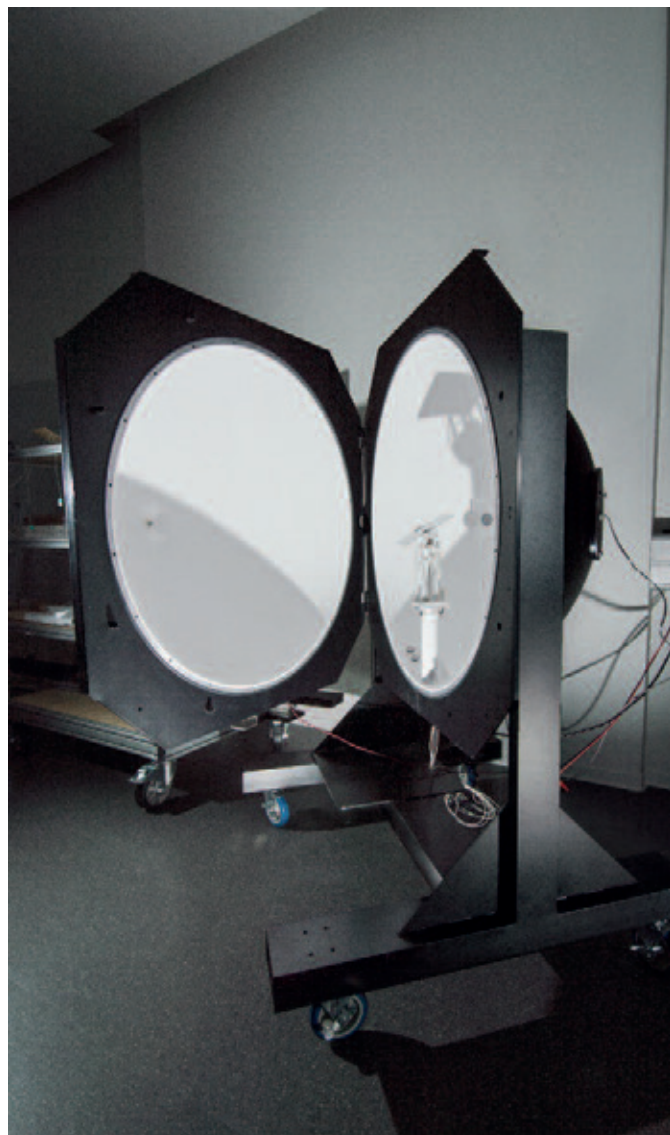
## Warranty

RIDI provides a 5 or 3 year warranty on its LED modules, LED control and other components (5 years for products with a nominal service life of  $\geq 50,000$  operating hours, 3 years for products with a nominal service life of  $< 50,000$  operating hours). The warranty is applicable across Europe, but can also be extended on request to other countries. It covers exclusively product failures due to material, design or production faults.

For more information, go to [www.ridi.de/de/service/garantie](http://www.ridi.de/de/service/garantie)

## Replacement

Because RIDI produces its own LED modules and RIDI TUBES in-house at its Jungingen production plant, RIDI is able to guarantee equivalent replacement deliveries for a period of 10 years.





All components at risk  
are identified by this symbol.



## ESD

ESD or electrostatic discharge is the name given to the charge equalization between two materials with different potential.

This electrostatic discharge initiates a brief electrical current pulse which manifests itself in the form of a spark or disruptive discharge.

The reason is generally a build-up of static charge through friction. This is discharged in everyday situations for instance by walking over a carpet or taking hold of a door handle, producing an electric shock. In the dark, this can even be observed visually in the form of a spark. The voltages arising here can be up to 35,000 Volts.

Electric shocks can only be noticed by humans from around 3,000 Volts. Discharges below this level of human perception can be enormously damaging to sensitive components even from as low as 10 V.

A distinction is made between LEDs which have been damaged by ESD to the point of complete failure and those with a latent fault. Although they have been damaged, LEDs with a latent fault will work but can fail prematurely at a later date.

### ESD protection measures in the factory

To exclude the possibility of ESD damage, the relevant protective measures are observed at RIDI:

- LED pcbs are protected during storage and transport through the use of defined packaging materials
- Sensitive components are not allowed to come into contact with electrostatically chargeable materials (insulation)
- Processing only at electrostatically protected workstations
- Ensuring personal earthing using wrist straps and ESD footwear
- Wearing of closed, non-static generating apparel
- Employee training
- Monitoring of protective measures

### ESD protection measures during luminaire installation

Special precautions must also be taken during the installation of LED luminaires to prevent ESD damage.

The ESD kit for electricians contains all the necessary elements to ensure that luminaires are protected from damage during installation due to electrostatic discharge.

ESD kit, contains work mats, wrist straps, earthing terminal, terminal plan

**Prod. code 0206790 ESD SERVICE-KIT**



ESD indication in all luminaires with open LED circuit boards accessible from the outside



## Boards produced in-house

Flexible fitting with LEDs and subsequent connection of individual modules are possible in wide-ranging different shapes, dimensions, luminous intensities and light colours. The flat and linear modules are adjusted to the relevant luminaire types, so ensuring optimum illumination.

## RIDI-LED rectangular modules

Small-area radiating LED modules are mounted predominantly in spotlights with focused light cone.

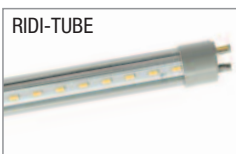
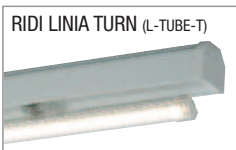
Application example:



## RIDI-LED linear modules

Linear modules offer a high light yield, excellent light quality and colour consistency for a wide range of LED lighting applications. Linear modules are mounted in some cases directly into the luminaires or gear trays, or are used in a RIDI TUBE (toollessly exchangeable LED lamp made by RIDI).

Application examples:

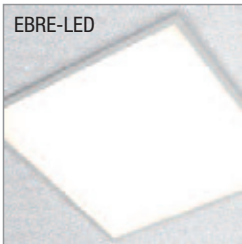




## RIDI-LED flat modules

Flat modules with mid-power LEDs are predominantly used in luminaires with cover panels or diffusers. Opal plastic covers guarantee homogenous illumination. Prismatic panels ensure low-glare direct luminous flux. These luminaires are used preferably in laboratories, workshops and wherever dust and splashing water are required, or where glare protection using a louvre is not necessary. Depending on the luminaire design (sealing on the ceiling and room side), protection ratings of up to IP 54 are possible.

Application example:



MID-POWER LED

## Chip on board

COB modules are mounted in spotlights which provide targeted and intensive precision spotlighting for applications such as retail, museums or galleries. These are also used in display lights.



COB





**Highly efficient LED-TUBE, made in Germany**

**Approximately radial emission, 70 % direct and 30 % indirect**

**Simple, fast exchange due to the innovative lamp base system.**

**System efficiency 150 lm/W\* – significantly more efficient than retrofit solutions.**

**(RIDI TUBES are not retrofit lamps! They can only be operated with an external converter.)**

**Light flux levels correspond to T16-HE wattages and higher**

**Mid-power LEDs on a stable aluminium base profile**

**Polycarbonate lamp unit body in clear, matt or opal**

**Service life 50,000 hours**

**5 / 3-year warranty \*\***

\* RIDI TUBE 360 with clear cover, length 1450 mm (including power loss of the converter)

\*\* Warranty on LED modules, LED control and other components:

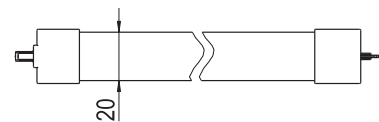
5 years for products with a rated life of  $\geq 50,000$  operating hours, 3 years for products with a rated life of  $< 50,000$  operating hours.

Because RIDI produces its own LED modules and RIDI TUBES in-house at its Jungingen production plant,

RIDI is able to guarantee equivalent replacement components for a period of 10 years.



# RIDI-TUBE 360



The RIDI TUBE 360 is an LED lamp developed and produced by RIDI. The emission is approximately radial (360°), with 70 % direct and 30 % indirect emission. The innovative lamp base system makes the RIDI TUBE just as easy to change as conventional T16 or T26 lamps. With a diameter of 22 mm, it looks very similar to a fluorescent lamp, but should not be confused with retrofit solutions. RIDI TUBES can be used exclusively in RIDI brand luminaires, not in luminaires designed to take conventional lamps. This is why they are mechanically protected and not compatible with socket bases for conventional T16 or T26 lamps.

**Socket base system**



Its dimensions are designed to correspond to conventional fluorescent lamps, and the luminous flux packages also comply with T16-HE wattages with up to 3,700 lm. High-output luminous fluxes of up to 6,000 lm are also available.

Development of the RIDI TUBE 360 permits the majority of familiar, proven luminaires designed for T16 or T26 lamps from the RIDI range with direct/indirect beam to now be operated with optimum energy efficiency as LED luminaires for RIDI TUBE 360. The RIDI TUBE 360 allows the configuration of dazzle-free louvre luminaires with exemplary light yield. Maximum efficiency is guaranteed by the linear circuit boards fitted with mid-power LEDs. While the efficiency of T16 lamps is limited to 85 – 95 lm/W, the RIDI TUBE 360 achieves up to 150 lm/W system efficiency (including power loss of the converter with lengths of 1450 mm with clear cover).

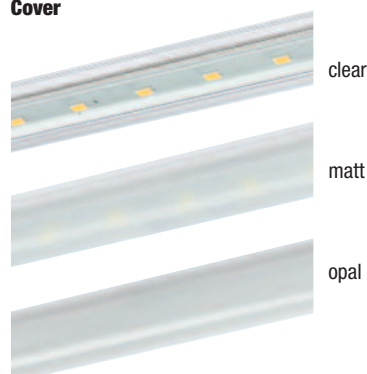
**LED modules fitted on both sides**

The LED modules are fitted with LEDs on both sides for approximately 360° emission. This enables space-saving design for a new function.

**Resistance in the base**

The current required for proper operation of the RIDI-TUBE 360 is adjusted by the light unit itself. This is carried out via resistance built into the mechanical base, which is queried by the converter when the light unit is switched on. Thanks to this technology, RIDI-TUBE 360 units with different power supplies or lumen packages can be used in one and the same luminaire, depending on the requirements.

**Cover**



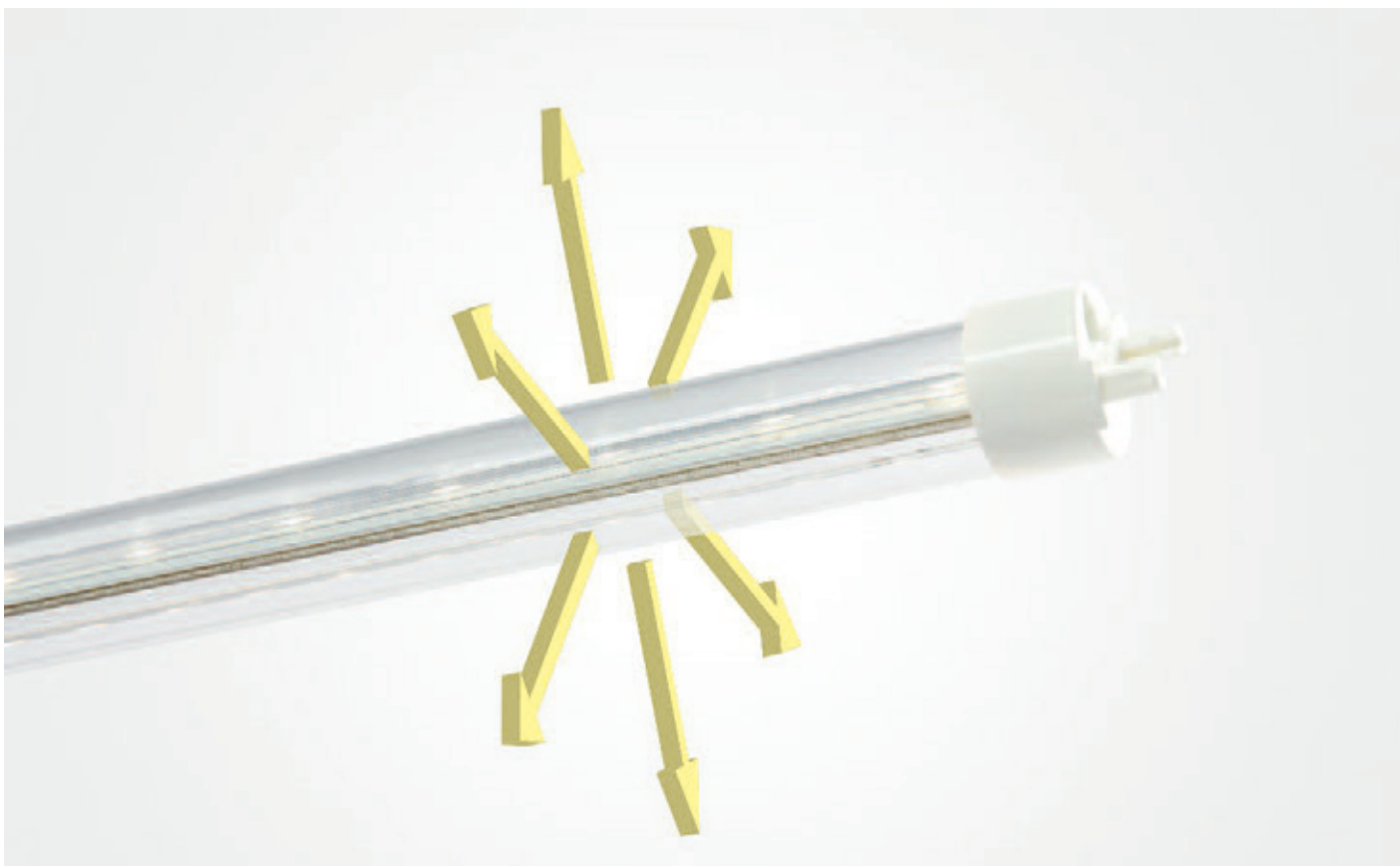
Depending on the lighting requirements, RIDI TUBE 360 come with clear, sanitised or opal plastic covers, and are available in light colours 3000 Kelvin, 4000 Kelvin or 6,500 Kelvin. They achieve a colour rendering index of Ra > 80.

When used in closed plastic luminaires, the rated service life of the RIDI TUBE 360 is 40,000 hours, and 50,000 hours in luminaires with metal housings for reasons of temperature.

Almost all RIDI luminaire types with direct/indirect beam are available as an LED version for RIDI TUBE 360. They can be recognized by the “-RT” in the luminaire name (e.g. F-LINE-RT).

These RIDI LED luminaires equipped with converters (optionally non-dimmable or DALI) and lamp base system for RIDI TUBE 360.

The matching RIDI TUBE 360 is available separately. Depending on the lighting requirements, the RIDI TUBE 360 can be chosen with an opal, clear or matt cover. RIDI provides a recommendation for optimum results with each of its luminaires.



# RIDI-TUBE 360

## RIDI-TUBE 360

**Design:** LED lamp RIDI-TUBE 360, colour rendering Ra  $\geq 80$ , standard colour tolerance < 3 Step MacAdam (initial), IP20 protection rating. LED modules configured as a linear circuit board, fitted on both sides with 70% direct light and 30% indirect light component. Mid-power LEDs for even illumination and maximum efficiency. Linear board inserted. Lampholder in durable PC, white. Operation with an external LED driver (mounted in the luminaire), constant current, safety extra low voltage less than 60 Volts (SELV conformity).

**Lampholder system:** Lamp base system RIDI-TUBE with electrical and mechanical interface, polarity reversal proof. Toolless lamp change twist-clip mechanism, corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base. Automatic adjustment of the precise required electrical current with the newly developed lamp base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Pre-fitted mounting of electrical components in almost all luminaires from the RIDI range. Toolless on-site mounting of RIDI-TUBES 360 on site similar to fluorescent lamps.

### Rated service life:

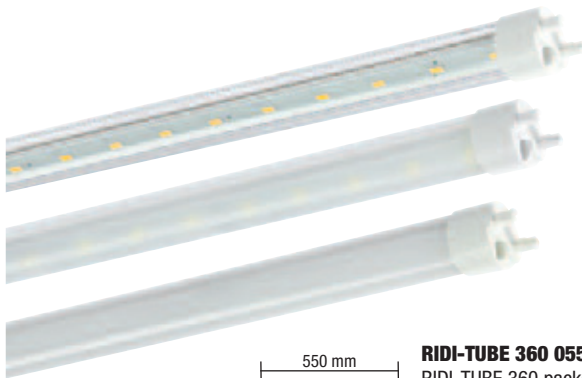
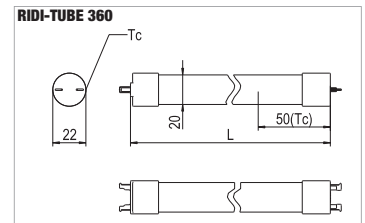
Ambient temperature  $-20^{\circ}\text{C}$  to  $+25^{\circ}\text{C}$

LED components: L80B50 > 50,000 hours in luminaires with metal housing.

LED components: L80B50 > 40,000 hours in closed luminaires made of plastic.

L80B50 > 50,000 hours:  $T_c = 75^{\circ}\text{C}$

L80B50 > 40,000 hours:  $T_c = 80^{\circ}\text{C}$



### RIDI-TUBE 360 055/8W

RIDI-TUBE 360 packaged. Length 550 mm, power consumption 8 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

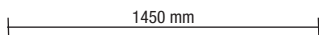
Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
RT360 055/8W	550	clear	8 W	0,56	9	1300	169	A++	0206929GF	1300	169	A++	0206928GF	1300	162	A++	0206925GF
RT360 055/8W	550	matt	8 W	0,56	9	1300	162	A++	0206927GF	1300	162	A++	0206926GF	1200	155	A++	0206922GF
RT360 055/8W	550	opal	8 W	0,56	9	1100	134	A++	0206924GF	1100	134	A++	0206923GF	1000	129	A+	0206921GF



### RIDI-TUBE 360 115/18W

RIDI-TUBE 360 packaged. Length 1150 mm, power consumption 18 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

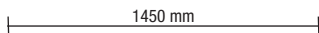
Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
RT360 115/18W	1150	clear	18 W	0,65	20	3100	170	A++	0206937GF	3100	170	A++	0206936GF	3000	163	A++	0206935GF
RT360 115/18W	1150	matt	18 W	0,65	20	3000	163	A++	0206934GF	3000	163	A++	0206933GF	2800	156	A++	0206932GF
RT360 115/18W	1150	opal	18 W	0,65	20	2500	136	A++	0206931GF	2500	136	A++	0206938GF	2400	130	A+	0206930GF



**RIDI-TUBE 360 145/22W**

RIDI-TUBE 360 packaged. Length 1450 mm, power consumption 22 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (.840...) or 6500 Kelvin (...865...).

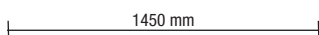
Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865			Light colour 840			Light colour 830					
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
RT360 145/22W	1450	clear	22 W	0,65	24	3700	173	A++	0206947GF	3700	173	A++	0206946GF	3600	165	A++	0206945GF
RT360 145/22W	1450	matt	22 W	0,65	24	3600	165	A++	0206944GF	3600	165	A++	0206943GF	3400	158	A++	0206942GF
RT360 145/22W	1450	opal	22 W	0,65	24	3000	137	A++	0206941GF	3000	137	A++	0206940GF	2800	132	A+	0206939GF



**RIDI-TUBE 360 145/28W**

RIDI-TUBE 360 packaged. Length 1450 mm, power consumption 28 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (.840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865			Light colour 840			Light colour 830					
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
RT360 145/28W	1450	clear	28 W	0,83	31	4700	168	A++	0206956GF	4700	168	A++	0206955GF	4500	161	A++	0206954GF
RT360 145/28W	1450	matt	28 W	0,83	31	4500	161	A++	0206953GF	4500	161	A++	0206952GF	4300	154	A++	0206951GF
RT360 145/28W	1450	opal	28 W	0,83	31	3700	134	A+	0206950GF	3700	134	A+	0206949GF	3600	128	A+	0206948GF



**RIDI-TUBE 360 145/37W**

RIDI-TUBE 360 packaged. Length 1450 mm, power consumption 37 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (.840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865			Light colour 840			Light colour 830					
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
RT360 145/37W	1450	clear	37 W	1,08	41	6000	163	A++	0206985GF	6000	163	A++	0206984GF	5800	156	A++	0206983GF
RT360 145/37W	1450	matt	37 W	1,08	41	5800	156	A++	0206982GF	5800	156	A++	0206981GF	5500	149	A++	0206980GF
RT360 145/37W	1450	opal	37 W	1,08	41	4800	129	A+	0206979GF	4800	129	A+	0206978GF	4600	124	A+	0206977GF



**Highly efficient LED-TUBE, made in Germany**

**Simple, fast exchange due to the innovative lamp base system.**

**System efficiency 139 lm/W\* – significantly more efficient than retrofit solutions.**

**(RIDI TUBES are not retrofit lamps! They can only be operated with an external converter.)**

**Light flux levels correspond to T16-HE wattages and higher**

**Mid-power LEDs on a stable aluminium base profile**

**PMMA cover in clear, matt or opal**

**Service life 50,000 hours**

**5 / 3-year warranty \*\***

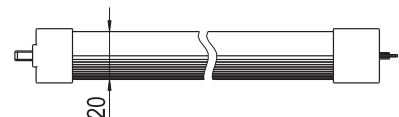
\* RIDI TUBE with clear cover, length 550 mm (including power loss of the converter)

\*\* Warranty on LED modules, LED control and other components:

5 years for products with a rated life of  $\geq 50,000$  operating hours, 3 years for products with a rated life of  $< 50,000$  operating hours.

Because RIDI produces its own LED modules and RIDI TUBES in-house at its Jungingen production plant,

RIDI is able to guarantee equivalent replacement components for a period of 10 years.



# RIDI-TUBE

The RIDI TUBE is an LED lamp developed and produced by RIDI. The innovative lamp base system makes the RIDI TUBE just as easy to change as conventional T16 or T26 lamps. With a diameter of 23 mm, it looks very similar to a fluorescent lamp, but should not be confused with retrofit solutions. RIDI TUBES can be used exclusively in RIDI brand luminaires, not in luminaires designed to take conventional lamps. This is why they are mechanically protected and not compatible with socket bases for conventional T16 or T26 lamps.

**Socket base system**



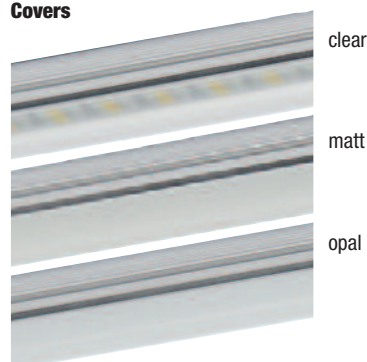
Its dimensions are designed to correspond to conventional fluorescent lamps, and the luminous flux packages also comply with T16-HE wattages with up to 3,300 lm. High-output luminous fluxes of up to 6,730 lm are also available.

Development of the RIDI TUBE permits the majority of familiar, proven luminaires designed for T16 or T26 lamps from the RIDI range to now be operated with optimum energy efficiency as LED luminaires for RIDI TUBE. The RIDI TUBE allows the configuration of dazzle-free louvre luminaires with exemplary light yield. Maximum efficiency is guaranteed by the linear circuit boards fitted with mid-power LEDs. While the efficiency of T16 lamps is limited to 85 – 96 lm/W, the RIDI TUBE achieves up to 139 lm/W system efficiency (including power loss of the converter with lengths of 550 mm with clear cover).

The SELV-conforming circuit boards are pressed over their whole surface against the stable aluminium base profile using a separate LED converter for optimum thermal management – technology for which RIDI has registered a patent.

Depending on the lighting requirements, RIDI TUBES come with clear, sanitised or opal plastic covers, and are available in light colours 3000 Kelvin, 4000 Kelvin or 6,500 Kelvin. They achieve a colour rendering index of Ra > 80.

**Covers**



When used in closed plastic luminaires, the rated service life of the RIDI TUBE is 40,000 hours, and 50,000 hours in luminaires with metal housings for reasons of temperature.

Almost all RIDI luminaire types and elements of the RIDI LINIA continuous lighting system are available as an LED version for RIDI TUBE. They can be recognized by the “-R” in the luminaire name (e.g. F-LINE-R, ALE-R, EBRE6-R, WL-R, ...). These RIDI LED luminaires equipped with converters (optionally non-dimmable or DALI) and lamp base system for RIDI TUBE.

The matching RIDI TUBE is available separately. Depending on the lighting requirements, the RIDI TUBE can be chosen with an opal, clear or matt cover. RIDI provides a recommendation for optimum results with each of its luminaires.

**RIDI TUBES are not included.  
They have to be ordered separately.**

**How to find the right RIDI TUBE on the basis of the R-TUBE category:**

To select the right RIDI-TUBE, look in the luminaire tables in the “R-TUBE Category” column.

On the inside cover (flap) of the catalogue, you will find a short overview of all RIDI TUBES classified in categories from A to J.

There are two categories given for certain luminaires – here it is possible to choose between two wattages.

Lamps max.	R-TUBE Category
... 1xR-TUBE 30 W	E, F ...
... 1xR-TUBE 30 W	E, F ...
... 1xR-TUBE 35 W	H, I ...
... 1xR-TUBE 35 W	H, I ...

Two selections have to be made per category:

1. Light colour (830 for 3000 K, 840 for 4000 K, 865 for 6500 K)
2. Cover of the RIDI TUBE (opal, matt or clear) – for this there is a factory recommendation for each luminaire for optimum light quality.

Please also note the number of required lamps per luminaire. This is indicated

**F-LINE-R ... SM**  
Parabolic mirror louvre SM made of matt super-purity anodised aluminium with silver coating.  
**For RIDI-TUBE lamp, recommended cover: matt.**

in the “Maximum lamps” column in the luminaire tables. The wattage indicated here shows the maximum possible number of lamps. RIDI TUBES generally remain below this value.

# RIDI-TUBE

## RIDI-TUBE

**Design:** LED lamp RIDI-TUBE, colour rendering  $R_a \geq 80$ , standard colour tolerance  $< 3$  Step MacAdam (initial). LED module configured as a linear circuit board. Mid-power LEDs for even illumination and maximum efficiency. Base profile in extruded aluminium for optimum thermal management. Linear circuit board interlocked with the base profile along the whole length. Cover in clear, satinised or opal PMMA for efficient light emission, base in durable white PC. Operation using an external LED driver (prefitted in luminaire), constant current, safety extra low voltage less than 60 Volts (SELV conformity).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Pre-fitted mounting of electrical components in almost all luminaires from the RIDI range. Toolless on-site mounting of RIDI-TUBEs on site similar to fluorescent lamps.

### Rated service life:

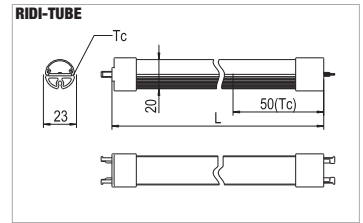
Ambient temperature  $-20^\circ\text{C}$  to  $+25^\circ\text{C}$

LED components: L80B50  $> 50,000$  hours in luminaires with metal housing.

LED components: L80B50  $> 40,000$  hours in closed luminaires made of plastic.

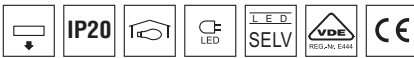
L80B50  $> 50,000$  hours:  $T_c = 75^\circ\text{C}$

L80B50  $> 40,000$  hours:  $T_c = 80^\circ\text{C}$



### Non-standard versions:

- Emergency light
- Customer-specific luminous flux



550 mm

### RIDI-TUBE 055/8W ...

RIDI-TUBE packaged. Length 550 mm, power consumption 8 Watt. Colour rendering  $R_a > 80$ . Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

R-TUBE Category	Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865			Light colour 840			Light colour 830					
							Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
A	R-TUBE 055/8W	550	clear	8 W	0,60	10	1400	167	A++	0206717GD	1400	167	A++	0204999GD	1300	155	A++	0204998GD
	R-TUBE 055/8W	550	matt	8 W	0,60	10	1300	155	A++	0206716GD	1300	155	A++	0204992GD	1200	143	A++	0204997GD
	R-TUBE 055/8W	550	opal	8 W	0,60	10	1200	143	A++	0206715GD	1200	143	A++	0204996GD	1100	131	A++	0204995GD

550 mm

### RIDI-TUBE 055/14W ...

RIDI-TUBE packaged. Length 550 mm, power consumption 14 Watt. Colour rendering  $R_a > 80$ . Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

R-TUBE Category	Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865			Light colour 840			Light colour 830					
							Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
B	R-TUBE 055/14W	550	clear	14 W	0,60	16	2100	147	A++	0206702GD	2100	147	A++	0205404GD	2000	140	A++	0205403GD
	R-TUBE 055/14W	550	matt	14 W	0,60	16	2000	140	A++	0206701GD	2000	140	A++	0205402GD	1900	133	A++	0205405GD
	R-TUBE 055/14W	550	opal	14 W	0,60	16	1800	126	A+	0206700GD	1800	126	A+	0205401GD	1700	119	A+	0205400GD

850 mm

### RIDI-TUBE 085/21W ...

RIDI-TUBE packaged. Length 850 mm, power consumption 21 Watt. Colour rendering  $R_a > 80$ . Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

R-TUBE Category	Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865			Light colour 840			Light colour 830					
							Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
C	R-TUBE 085/21W	850	clear	21 W	0,70	23	3100	150	A++	0206705GD	3100	150	A++	0206623GD	3000	145	A++	0206626GD
	R-TUBE 085/21W	850	matt	21 W	0,70	23	2900	140	A++	0206704GD	2900	140	A++	0206604GD	2800	135	A++	0206625GD
	R-TUBE 085/21W	850	opal	21 W	0,70	23	2600	125	A+	0206703GD	2600	125	A+	0206622GD	2500	121	A+	0206624GD





**RIDI-TUBE 115/20W ...**

RIDI-TUBE packaged. Length 1150 mm, power consumption 20 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

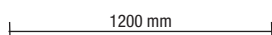
Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830				R-TUBE Category
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	
R-TUBE 115/20W	1150	clear	20 W	0,70	23	3200	158	A++	0206723GD	3200	158	A++	0206578GD	3100	153	A++	0206577GD	E
R-TUBE 115/20W	1150	matt	20 W	0,70	23	3000	148	A++	0206722GD	3000	148	A++	0206576GD	2800	138	A++	0206575GD	
R-TUBE 115/20W	1150	opal	20 W	0,70	23	2700	133	A++	0206721GD	2700	133	A++	0206574GD	2600	129	A+	0206573GD	



**RIDI-TUBE 115/30W ...**

RIDI-TUBE packaged. Length 1150 mm, power consumption 30 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830				R-TUBE Category
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	
R-TUBE 115/30W	1150	clear	30 W	0,70	34	4700	154	A++	0206708GD	4700	154	A++	0206600GD	4500	148	A++	0206621GD	F
R-TUBE 115/30W	1150	matt	30 W	0,70	34	4400	144	A++	0206707GD	4400	144	A++	0206601GD	4200	138	A++	0206620GD	
R-TUBE 115/30W	1150	opal	30 W	0,70	34	3900	128	A+	0206706GD	3900	128	A+	0206602GD	3800	125	A+	0206619GD	



**RIDI-TUBE 120/24W ...**

RIDI-TUBE packaged. Length 1200 mm, power consumption 24 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830				R-TUBE Category
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	
R-TUBE 120/24W	1200	clear	24 W	0,70	27	3800	157	A++	0206711GD	3800	157	A++	0206591GD	3700	153	A++	0206618GD	G
R-TUBE 120/24W	1200	matt	24 W	0,70	27	3600	149	A++	0206710GD	3600	149	A++	0206592GD	3400	140	A++	0206617GD	
R-TUBE 120/24W	1200	opal	24 W	0,70	27	3200	132	A++	0206709GD	3200	132	A++	0206593GD	3100	128	A+	0206616GD	



**RIDI-TUBE 145/24W ...**

RIDI-TUBE packaged. Length 1450 mm, power consumption 24 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830				R-TUBE Category
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	
R-TUBE 145/24W	1450	clear	24 W	0,70	27	3900	163	A++	0206726GD	3900	163	A++	0206581GD	3700	155	A++	0206580GD	H
R-TUBE 145/24W	1450	matt	24 W	0,70	27	3600	150	A++	0206725GD	3600	150	A++	0204993GD	3400	142	A++	0206579GD	
R-TUBE 145/24W	1450	opal	24 W	0,70	27	3200	134	A++	0206724GD	3200	134	A++	0206583GD	3100	129	A+	0206582GD	



**RIDI-TUBE 145/29-45W ...**

RIDI-TUBE packaged. Length 1450 mm, power consumption 29-45 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830				R-TUBE Category
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	
R-TUBE 145/29-45W	1450	clear	29-45 W	0,70-1,05	32-50	4900-7100	167-156	A++	0206783GD	4900-7100	167-156	A++	0206597GD	4600-6800	157-150	A++	0206605GD	I
R-TUBE 145/29-45W	1450	matt	29-45 W	0,70-1,05	32-50	4500-6600	153-145	A++	0206782GD	4500-6600	153-145	A++	0206598GD	4300-6300	147-139	A++	0206603GD	
R-TUBE 145/29-45W	1450	opal	29-45 W	0,70-1,05	32-50	4100-5900	140-130	A+,A+	0206781GD	4100-5900	140-130	A+,A+	0206599GD	3900-5700	133-125	A+,A+	0206606GD	



**RIDI-TUBE 150/33W ...**

RIDI-TUBE packaged. Length 1500 mm, power consumption 33 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830				R-TUBE Category
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	
R-TUBE 150/33W	1500	clear	33 W	0,77	37	5300	161	A++	0206714GD	5300	161	A++	0206594GD	5100	155	A++	0206615GD	J
R-TUBE 150/33W	1500	matt	33 W	0,77	37	4900	149	A++	0206713GD	4900	149	A++	0206595GD	4700	143	A++	0206614GD	
R-TUBE 150/33W	1500	opal	33 W	0,77	37	4500	137	A++	0206712GD	4500	137	A++	0206596GD	4300	131	A++	0206613GD	



**Highly efficient LED-TUBE, made in Germany**

**Exchangeable without tools**

**System efficiency 145 lm/W\* – significantly more efficient than retrofits.**

**(L-TUBES are not retrofit lamps! They can only be used with an external converter.)**

**Light fluxes correspond to T16-HE wattages and higher**

**Mid-Power LEDs on a stable aluminium profile**

**PMMA covers in clear, matt or opal**

**Service life 50.000 Hours**

**5 / 3-year warranty\*\***

**L-TUBE suitable for direct ceiling or wall mounting, e.g. for cove lighting**

\* L-TUBE-B with clear cover, length 550 mm (including power loss of the converter)

\*\* Warranty on LED modules, LED control and other components:

5 years for products with rated service life  $\geq$  50,000 operating hours, 3 years for products with rated service life  $<$  50,000 operating hours.

Because RIDI produces its own LED modules and L-TUBES in-house at its Jungingen production plant,

RIDI is able to guarantee equivalent replacement components for a period of 10 years.

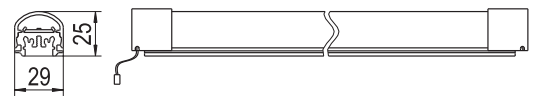
L-TUBE

L-TUBE-B

“BALL” with ball-proof fixing clip

L-TUBE-T

“TURN” with swivel adapter



The L-TUBE is an LED lamp developed and produced by RIDI. Its dimensions are designed to correspond to conventional fluorescent lamps, and the luminous flux packages also comply with T16-HE wattages with up to 3,600 lm. High-output luminous fluxes of up to 6,800 lm are also available.

The L-TUBE-B ("Ball"), a further development of the L-TUBE with ball-proof fixing clip, is prefitted in all industrial and sports hall luminaires from the RIDI range. It can be exchanged by specialist personnel without the aid of tools.

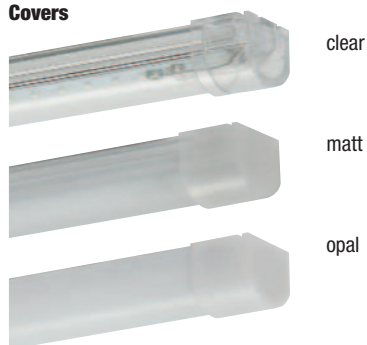
The L-TUBE-T ("Turn") with swivel adapter was developed for the RIDI LINIA continuous lighting system. Exchange including adapter is possible (L-TUBE-T available on request).

The mid-power LEDs used on the linear circuit boards of the L-TUBE guarantee maximum efficiency. While the efficiency of T16 lamps is around 85 – 95 lm/W, the L-TUBE achieves up to 145 lm/W system efficiency (including power loss of the converter with a length of 550 mm with clear cover).

The SELV-conforming circuit boards are pressed over their whole surface against the stable aluminium base profile using a separate LED converter for optimum thermal management – technology for which RIDI has registered a patent.

Depending on the lighting requirement, L-TUBES come equipped with clear, satinised or opal plastic covers and available in the light colours 3,000 Kelvin, 4,000 Kelvin or 6,500 Kelvin. They achieve a colour rendering index of  $Ra > 80$ .

#### Covers



When used in closed plastic luminaires, the rated service life of the L-TUBE is 40,000 hours, and 50,000 hours in luminaires with metal housings for reasons of temperature.

Industrial luminaires and luminaires for sports halls are available as an LED version with L-TUBES. They can be recognized by the "-L" in the luminaire name (e.g. IHLS-L, SHL-L, ...).

The L-TUBE-T gear tray of the RIDI LINIA continuous lighting system bears the designation VLG-T ("Turn").

**L-TUBES (-B and -T) are prefitted in the luminaires and included in the scope of delivery.**

**L-TUBE-T in RIDI LINIA-TURN**  
with swivel-action adapter



# L-TUBE

## L-TUBE

**Design:** LED lamp RIDI L-TUBE, colour rendering Ra  $\geq 80$ , standard colour tolerance  $< 3$  Step MacAdam (initial). LED module configured as a linear circuit board. Mid-power LEDs for even illumination and maximum efficiency. Base profile in extruded solid aluminium for optimum thermal management. Linear circuit board continuously interlocked with base profile along the whole length. Cover in clear, satinised or opal PMMA for efficient light emission, end cap in durable PC in a colour to match the cover. Operation using an external LED driver (order separately / prefitted in luminaire), constant current, safety extra low voltage less than 60 Volts (SELV conformity).

**Lampholder system:** Spring steel fixing clip on the luminaire side, on the lamp side positive locking spring steel clip at the aluminium profile of the lamp, plug and socket electrical connection.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Pre-fitted mounting in many luminaires from the RIDI range. Toolless mechanical lamp change of the L-TUBE by pressing the spring steel clip, plug and socket electrical connection.

### Rated service life:

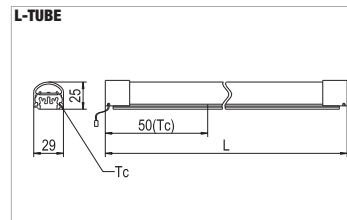
Ambient temperature  $-20^{\circ}\text{C}$  to  $+25^{\circ}\text{C}$

LED components: L80B50  $> 50,000$  hours in luminaires with metal housing.

LED components: L80B50  $> 40,000$  hours in closed luminaires made of plastic.

L80B50  $> 50,000$  hours: Tc =  $75^{\circ}\text{C}$

L80B50  $> 40,000$  hours: Tc =  $80^{\circ}\text{C}$



### Non-standard versions:

- Emergency light
- Customer-specific luminous flux



Universal fixture with fixing clips (accessories)



### L-TUBE 055/8W ...

L-TUBE packaged. Length 550 mm, power consumption 8 Watt. Colour rendering Ra  $> 80$ . Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE 055/8W	550	clear	8 W	0,60	10	1400	167	A++	1206744GD	1400	167	A++	1204948GD	1300	155	A++	1204957GD
L-TUBE 055/8W	550	matt	8 W	0,60	10	1300	155	A++	1206743GD	1300	155	A++	1204950GD	1200	143	A++	1204956GD
L-TUBE 055/8W	550	opal	8 W	0,60	10	1200	143	A++	1206742GD	1200	143	A++	1204952GD	1100	131	A++	1204955GD

### L-TUBE 055/14W ...

L-TUBE packaged. Length 550 mm, power consumption 14 Watt. Colour rendering Ra  $> 80$ . Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE 055/14W	550	clear	14 W	0,60	16	2100	150	A++	0206729GD	2100	150	A++	0205411GD	2000	143	A++	0205410GD
L-TUBE 055/14W	550	matt	14 W	0,60	16	2000	143	A++	0206728GD	2000	143	A++	0205409GD	1900	136	A++	0205408GD
L-TUBE 055/14W	550	opal	14 W	0,60	16	1800	129	A+	0206727GD	1800	129	A+	0205407GD	1700	122	A+	0205406GD

### L-TUBE 085/20W ...

L-TUBE packaged. Length 850 mm, power consumption 20 Watt. Colour rendering Ra  $> 80$ . Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE 085/20W	850	clear	20 W	0,70	23	3100	152	A++	0206732GD	3100	152	A++	0205417GD	3000	147	A++	0205416GD
L-TUBE 085/20W	850	matt	20 W	0,70	23	2900	142	A++	0206731GD	2900	142	A++	0205415GD	2800	137	A++	0205414GD
L-TUBE 085/20W	850	opal	20 W	0,70	23	2600	128	A+	0206730GD	2600	128	A+	0205413GD	2500	123	A+	0205412GD

### L-TUBE 115/18W ...

L-TUBE packaged. Length 1150 mm, power consumption 18 Watt. Colour rendering Ra  $> 80$ . Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE 115/18W	1150	clear	18 W	0,65	20	3000	164	A++	0206750GD	3000	164	A++	1204942GD	2900	158	A++	1204963GD
L-TUBE 115/18W	1150	matt	18 W	0,65	20	2800	153	A++	0206749GD	2800	153	A++	1204944GD	2700	147	A++	1204962GD
L-TUBE 115/18W	1150	opal	18 W	0,65	20	2500	136	A++	0206748GD	2500	136	A++	1204946GD	2400	131	A++	1204961GD

**L-TUBE 115/33W ...**

L-TUBE packaged. Length 1150 mm, power consumption 33 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE 115/33W	1150	clear	33 W	0,70	36	5000	153	A++	0206735GD	5000	153	A++	0205423GD	4800	147	A++	0205422GD
L-TUBE 115/33W	1150	matt	33 W	0,70	36	4700	144	A++	0206734GD	4700	144	A++	0205421GD	4400	135	A++	0205420GD
L-TUBE 115/33W	1150	opal	33 W	0,70	36	4200	129	A+	0206733GD	4200	129	A+	0205419GD	4000	123	A+	0205418GD

**L-TUBE 120/22W ...**

L-TUBE packaged. Length 1200 mm, power consumption 22 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE 120/22W	1200	clear	22 W	0,65	25	3600	164	A++	0206738GD	3600	164	A++	0205091GD	3400	155	A++	0205098GD
L-TUBE 120/22W	1200	matt	22 W	0,65	25	3300	150	A++	0206737GD	3300	150	A++	0205090GD	3200	146	A++	0205097GD
L-TUBE 120/22W	1200	opal	22 W	0,65	25	3000	137	A++	0206736GD	3000	137	A++	0205092GD	2900	132	A++	0205096GD

**L-TUBE 145/22W ...**

L-TUBE packaged. Length 1450 mm, power consumption 22 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE 145/22W	1450	clear	22 W	0,65	24	3600	165	A++	0206753GD	3600	165	A++	1204943GD	3500	161	A++	1204966GD
L-TUBE 145/22W	1450	matt	22 W	0,65	24	3400	156	A++	0206752GD	3400	156	A++	1204945GD	3200	147	A++	1204965GD
L-TUBE 145/22W	1450	opal	22 W	0,65	24	3000	138	A++	0206751GD	3000	138	A++	1204947GD	2900	133	A++	1204964GD

**L-TUBE 145/29-43W ...**

L-TUBE packaged. Length 1450 mm, power consumption 29-43 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE 145/29-43W	1450	clear	29-43 W	0,70-1,00	32-48	4900-6800	167-157	A++	0206789GD	4900-6800	167-157	A++	0205426GD	4600-6500	157-150	A++	0205435GD
L-TUBE 145/29-43W	1450	matt	29-43 W	0,70-1,00	32-48	4500-6300	153-146	A++	0206788GD	4500-6300	153-146	A++	0205089GD	4300-6000	147-139	A++	0205434GD
L-TUBE 145/29-43W	1450	opal	29-43 W	0,70-1,00	32-48	4100-5700	140-132	A++	0206787GD	4100-5700	140-132	A++	0205433GD	3900-5400	133-125	A++	0205424GD

**L-TUBE 150/33W ...**

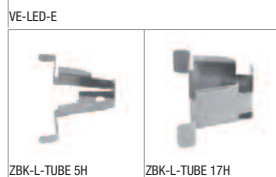
L-TUBE packaged. Length 1500 mm, power consumption 33 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE 150/33W	1500	clear	33 W	0,77	36	5300	163	A++	0206741GD	5300	163	A++	0205094GD	5100	157	A++	0205191GD
L-TUBE 150/33W	1500	matt	33 W	0,77	36	4900	151	A++	0206740GD	4900	151	A++	0205093GD	4700	145	A++	0205190GD
L-TUBE 150/33W	1500	opal	33 W	0,77	36	4500	139	A++	0206739GD	4500	139	A++	0205095GD	4300	132	A++	0205099GD

**Accessories**



LED converter mounted on steel gear tray plate. Prefitted connecting cable (2 m) with cable strain relief with polarity reversal proof plug for connection to the L-TUBE. Dimensions: L = 600 mm, W = 40 mm, H = 35 mm



Model	Description	Prod. code
VE-LED-E 14-37W/DA 0,65A	Supply unit, recessed, L-TUBE, 14-37W/0,65A, DALI	0238819GD
VE-LED-E 14-37W/DA 0,70A	Supply unit, recessed, L-TUBE, 14-37W/0,70A, DALI	0238819
VE-LED-E 14-37W/DA 0,77A	Supply unit, recessed, L-TUBE, 14-37W/0,77A, DALI	0238968GD
VE-LED-E 15-33W/ND 0,65A	Supply unit, recessed, L-TUBE, 15-33W/0,65A	0228819GD
VE-LED-E 15-33W/ND 0,70A	Supply unit, recessed, L-TUBE, 15-33W/0,70A	0228819
VE-LED-E 15-33W/ND 0,77A	Supply unit, recessed, L-TUBE, 15-33W/0,77A	0228968GD
VE-LED-E 2-32W/ND 0,60A	Supply unit, recessed, L-TUBE, 2-32W/0,60A	0228818
VE-LED-E 21-50W/DA 1,00A	Supply unit, recessed, L-TUBE, 21-50W/1,00A, DALI	0238820GD
VE-LED-E 23-50W/ND 1,00A	Supply unit, recessed, L-TUBE, 23-50W/1,00A	0228820GD

**Fixing clamps:** Clips for exchangeable fixture of the L-TUBE aluminium profile on the fixing base.

Model	Description	Prod. code
ZBK-L-TUBE 17H	Fixing clip L-TUBE, H=17mm, 2 pc. incl. screws	0206805
ZBK-L-TUBE 5H	Fixing clip L-TUBE, H=5mm, 2 pc. incl. screws	0206584

## L-TUBE-B

### L-TUBE-B

**Design:** LED lamp RIDI L-TUBE-B, colour rendering Ra >= 80, standard colour tolerance < 3 Step MacAdam (initial). LED module configured as a linear circuit board. Mid-power LEDs for even illumination and maximum efficiency. Base profile in extruded solid aluminium for optimum thermal management. Linear circuit board continuously interlocked with base profile along the whole length. Cover in clear, satinised or opal PMMA for efficient light emission, end cap in durable PC in a colour to match the cover. Operation using an external LED driver (prefitted in luminaire), constant current, safety extra low voltage less than 60 Volts (SELV conformity).

**Lampholder system:** Aluminium cap profile fixture on the luminaire side for efficient heat transfer, spring steel fixing clip on the lamp side for positive locking connection with cap profile. Locking on the longitudinal side by means of a catch. Easy removal through blue plastic component. Plug and socket electrical connection.

#### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Pre-fitted mounting in industrial and sports hall luminaires from the RIDI range. Toolless mechanical lamp change of the L-TUBE by releasing the catch on the connection side of the spring steel clip and sliding to the side, plug and socket electrical connection.

#### Rated service life:

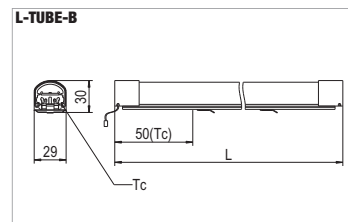
Ambient temperature -20°C to +25°C

LED components: L80B50 > 50,000 hours in luminaires with metal housing.

LED components: L80B50 > 40,000 hours in closed luminaires made of plastic.

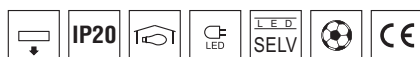
L80B50 > 50,000 hours: Tc = 75°C

L80B50 > 40,000 hours: Tc = 80°C



#### Non-standard versions:

- Emergency light
- Customer-specific luminous flux



#### L-TUBE-B 055/8W ...

L-TUBE-B packaged. Length 550 mm, power consumption 8 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-B 055/8W	550	clear	8 W	0,60	10	1400	167	A++	0206771GD	1400	167	A++	0206681GD	1300	155	A++	0206680GD
L-TUBE-B 055/8W	550	matt	8 W	0,60	10	1300	155	A++	0206770GD	1300	155	A++	0206679GD	1200	143	A++	0206678GD
L-TUBE-B 055/8W	550	opal	8 W	0,60	10	1200	143	A++	0206754GD	1200	143	A++	0206677GD	1100	131	A++	0206676GD

#### L-TUBE-B 055/14W ...

L-TUBE-B packaged. Length 550 mm, power consumption 14 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-B 055/14W	550	clear	14 W	0,60	16	2100	150	A++	0206757GD	2100	150	A++	0206638GD	2000	143	A++	0206637GD
L-TUBE-B 055/14W	550	matt	14 W	0,60	16	2000	143	A++	0206756GD	2000	143	A++	0206636GD	1900	136	A++	0206635GD
L-TUBE-B 055/14W	550	opal	14 W	0,60	16	1800	129	A+	0206755GD	1800	129	A+	0206634GD	1700	122	A+	0208507GD

#### L-TUBE-B 085/20W ...

L-TUBE-B packaged. Length 850 mm, power consumption 20 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-B 085/20W	850	clear	20 W	0,70	23	3100	152	A++	0206760GD	3100	152	A++	0206645GD	3000	147	A++	0206644GD
L-TUBE-B 085/20W	850	matt	20 W	0,70	23	2900	142	A++	0206759GD	2900	142	A++	0206643GD	2800	137	A++	0206641GD
L-TUBE-B 085/20W	850	opal	20 W	0,70	23	2600	128	A+	0206758GD	2600	128	A+	0206640GD	2500	123	A+	0206639GD

**L-TUBE-B 115/18W ...**

L-TUBE-B packaged. Length 1150 mm, power consumption 18 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-B 115/18W	1150	clear	18 W	0,65	20	3000	164	A++	0206777GD	3000	164	A++	0206693GD	2900	158	A++	0206692GD
L-TUBE-B 115/18W	1150	matt	18 W	0,65	20	2800	153	A++	0206776GD	2800	153	A++	0206691GD	2700	147	A++	0206690GD
L-TUBE-B 115/18W	1150	opal	18 W	0,65	20	2500	136	A++	0206775GD	2500	136	A++	0206689GD	2400	131	A++	0206688GD

**L-TUBE-B 115/33W ...**

L-TUBE-B packaged. Length 1150 mm, power consumption 33 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-B 115/33W	1150	clear	33 W	0,70	36	5000	153	A++	0206763GD	5000	153	A++	0206651GD	4800	147	A++	0206650GD
L-TUBE-B 115/33W	1150	matt	33 W	0,70	36	4700	144	A++	0206762GD	4700	144	A++	0206649GD	4400	135	A++	0206648GD
L-TUBE-B 115/33W	1150	opal	33 W	0,70	36	4200	129	A+	0206761GD	4200	129	A+	0206647GD	4000	123	A+	0206646GD

**L-TUBE-B 120/22W ...**

L-TUBE-B packaged. Length 1200 mm, power consumption 22 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-B 120/22W	1200	clear	22 W	0,65	25	3600	164	A++	0206766GD	3600	164	A++	0206657GD	3400	155	A++	0206656GD
L-TUBE-B 120/22W	1200	matt	22 W	0,65	25	3300	150	A++	0206765GD	3300	150	A++	0206655GD	3200	146	A++	0206654GD
L-TUBE-B 120/22W	1200	opal	22 W	0,65	25	3000	137	A++	0206764GD	3000	137	A++	0206653GD	2900	132	A++	0206652GD

**L-TUBE-B 145/22W ...**

L-TUBE-B packaged. Length 1450 mm, power consumption 22 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-B 145/22W	1450	clear	22 W	0,65	24	3600	165	A++	0206780GD	3600	165	A++	0206699GD	3500	161	A++	0206698GD
L-TUBE-B 145/22W	1450	matt	22 W	0,65	24	3400	156	A++	0206779GD	3400	156	A++	0206697GD	3200	147	A++	0206696GD
L-TUBE-B 145/22W	1450	opal	22 W	0,65	24	3000	138	A++	0206778GD	3000	138	A++	0206695GD	2900	133	A++	0206694GD

**L-TUBE-B 145/29-43W ...**

L-TUBE-B packaged. Length 1450 mm, power consumption 29-43 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-B 145/29-43	1450	clear	29-43 W	0,70-1,00	32-48	4900-6800	167-157	A++	0206786GD	4900-6800	167-157	A++	0206663GD	4600-6500	157-150	A++	0206662GD
L-TUBE-B 145/29-43	1450	matt	29-43 W	0,70-1,00	32-48	4500-6300	153-146	A++	0206785GD	4500-6300	153-146	A++	0206661GD	4300-6000	147-139	A++	0206660GD
L-TUBE-B 145/29-43	1450	opal	29-43 W	0,70-1,00	32-48	4100-5700	140-132	A++	0206784GD	4100-5700	140-132	A++	0206659GD	3900-5400	133-125	A++	0206658GD

**L-TUBE-B 150/33W ...**

L-TUBE-B packaged. Length 1500 mm, power consumption 33 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-B 150/33W	1500	clear	33 W	0,77	36	5300	163	A++	0206769GD	5300	163	A++	0206675GD	5100	157	A++	0206674GD
L-TUBE-B 150/33W	1500	matt	33 W	0,77	36	4900	151	A++	0206768GD	4900	151	A++	0206673GD	4700	145	A++	0206672GD
L-TUBE-B 150/33W	1500	opal	33 W	0,77	36	4500	139	A++	0206767GD	4500	139	A++	0206671GD	4300	132	A++	0206670GD



**Highly efficient LED-TUBE, made in Germany**

**Integrated linear optics for wide or narrow-beam light emission**

**System efficiency 137 lm/W\* – significantly more efficient than retrofits.**

**(L-TUBES are not retrofit lamps! They can only be used with an external converter.)**

**Light fluxes correspond to T16-HE wattages and higher**

**Mid-Power LEDs on a stable aluminium profile**

**Service life 50,000 hours**

**5 / 3-year warranty\*\***

**L-TUBE-F suitable for direct ceiling or wall mounting,  
e.g. for cove lighting**

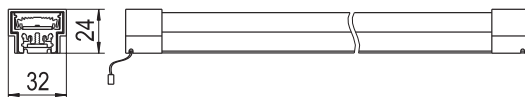
\* L-TUBE-BF, length 1450 mm (including power loss of the converter)

\*\* Warranty on LED modules, LED control and other components:

5 years for products with rated service life  $\geq$  50,000 operating hours, 3 years for products with rated service life  $<$  50,000 operating hours.

Because RIDI produces its own LED modules and RIDI TUBES in-house at its Jungingen production plant,

RIDI is able to guarantee equivalent replacement components for a period of 10 years.



**L-TUBE-F**  
"FLAT" with integrated linear optics

**L-TUBE-BF**  
"BALL" with ballproof fixing clips

**L-TUBE-TF**  
"TURN" with swivel-action adapter



The L-TUBE-F is an LED lamp developed and produced by RIDI in a flat design with integrated linear optics.

Its dimensions are designed to correspond to conventional fluorescent lamps, and the luminous flux packages also comply with T16-HE wattages with up to 3,300 lm. HO luminous fluxes of up to 6,800 lm are also available.

The L-TUBE-BF ("Ball"), a further development of the L-TUBE-F with ball-proof fixing clip, is prefitted in industrial luminaires such as IHLS-LF from the RIDI range. It can be exchanged by specialist personnel without the aid of tools

The L-TUBE-TF ("Turn") with swivel adapter was developed for the RIDI LINEA continuous lighting system. Exchange including adapter is possible (L-TUBE-TF available on request).

The mid-power LEDs used on the linear circuit boards of the L-TUBE-F guarantee maximum efficiency. While the efficiency of T16 lamps is around 85 – 95 lm/W, the L-TUBE-F achieves up to 137 lm/W system efficiency (including power loss of the converter with a length of 1450 mm with clear cover).

The SELV-conforming circuit boards are pressed over their whole surface against the stable aluminium base profile using a separate LED converter for optimum thermal management – technology for which RIDI has registered a patent.

Depending on the lighting requirement, L-TUBE-F/-BF comes equipped with narrow or wide beam optics and in the light colours 3,000 Kelvin, 4,000 Kelvin or 6,500 Kelvin. They achieve a colour rendering index of Ra > 80.



When used in closed plastic luminaires, the rated service life of the L-TUBE-F is 40,000 hours, and 50,000 hours in luminaires with metal housings for reasons of temperature.

Industrial luminaires are available as an LED version with L-TUBES. They can be recognized by the ending "-LF" (e.g. (e.g. IHLS-LF, ...)). The L-TUBE-TF gear tray of the RIDI LINEA continuous lighting system bears the designation VLG-TF ("Turn Flat").

**L-TUBES (-BF and -TF) are prefitted in the luminaires and included in the scope of delivery.**

#### **L-TUBE-TF in RIDI LINEA-TURN-FLAT**

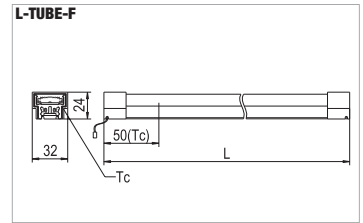
Available optics:

Narrow beam, wide beam, extreme narrow beam, asymmetrical, double asymmetrical, diffuse beam

# L-TUBE-F

## L-TUBE-F

**Design:** LED lamp RIDI L-TUBE-F for operation in luminaires prepared for L-TUBE-F, or universal application with optional accessory. Comprising base profile with LED module configured as a linear circuit board, plastic optics and plastic end caps. Cable connection on one side, 20 cm, with socket for electrical connection. Base profile made of extruded aluminium for optimum thermal management. Profiled PMMA cover for wide or narrow beam light emission. LED linear circuit board fitted with mid-power LEDs for even illumination and maximum efficiency. Colour rendering Ra >= 80, standard colour tolerance < 3 Step MacAdam (initial). Operation using an external LED driver with constant current, safety extra low voltage less than 60 Volts (SELV conformity).



**Lampholder system:** Spring steel fixing clip on the luminaire side, on the lamp side positive locking spring steel clip at the aluminium profile of the lamp, plug and socket electrical connection.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Toolless exchange/mounting using fixing clips in luminaires prepared for L-TUBE-F, electrical connection using polarity-reversal proof plug and socket system. Universal use of the L-TUBE-F with optionally available accessories such as fixing clips and driver unit.

### Rated service life:

Ambient temperature -20°C to +25°C

LED components: L80B50 > 50,000 hours in luminaires with metal housing.

LED components: L80B50 > 40,000 hours in closed luminaires made of plastic.

L80B50 > 50,000 hours: Tc = 75°C

L80B50 > 40,000 hours: Tc = 80°C



Universal fixture with fixing clips (accessories)

### L-TUBE-F 055/8W ...

L-TUBE-F packaged. Length 550 mm, power consumption 8 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Wattage	Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-F 055/8W	550	8 W	asymm.	0,60	10	1400	144	A++	0208951GD	1400	144	A++	0208950GD	1400	144	A++	0208949GD
L-TUBE-F 055/8W	550	8 W	wide	0,60	10	1400	154	A++	0208945GD	1400	154	A++	0208944GD	1400	154	A++	0208943GD
L-TUBE-F 055/8W	550	8 W	narrow	0,60	10	1400	143	A+	0208948GD	1400	143	A+	0208947GD	1400	143	A+	0208946GD

### L-TUBE-F 055/14W ...

L-TUBE-F packaged. Length 550 mm, power consumption 14 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Wattage	Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-F 055/14W	550	14 W	asymm.	0,60	16	2200	136	A+	0208611GD	2200	136	A+	0208605GD	2100	130	A+	0208599GD
L-TUBE-F 055/14W	550	14 W	wide	0,60	16	2200	146	A++	0208612GD	2200	146	A++	0208606GD	2100	139	A++	0208600GD
L-TUBE-F 055/14W	550	14 W	narrow	0,60	16	2200	135	A+	0208616GD	2200	135	A+	0208610GD	2100	129	A+	0208604GD

### L-TUBE-F 085/20W ...

L-TUBE-F packaged. Length 850 mm, power consumption 20 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Wattage	Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-F 085/20W	850	20 W	asymm.	0,70	23	3200	136	A+	0208629GD	3200	136	A+	0208623GD	3100	131	A+	0208617GD
L-TUBE-F 085/20W	850	20 W	wide	0,70	23	3200	145	A++	0208630GD	3200	145	A++	0208624GD	3100	141	A++	0208618GD
L-TUBE-F 085/20W	850	20 W	narrow	0,70	23	3200	135	A+	0208634GD	3200	135	A+	0208628GD	3100	131	A+	0208622GD

### L-TUBE-F 115/18W ...

L-TUBE-F packaged. Length 1150 mm, power consumption 18 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Wattage	Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-F 115/18W	1150	18 W	asymm.	0,65	21	3100	146	A++	0208540GD	3100	146	A++	0208534GD	2900	137	A+	0208528GD
L-TUBE-F 115/18W	1150	18 W	wide	0,65	21	3100	157	A++	0208541GD	3100	157	A++	0208535GD	2900	147	A++	0208529GD
L-TUBE-F 115/18W	1150	18 W	narrow	0,65	21	3100	145	A+	0208545GD	3100	145	A+	0208539GD	2900	136	A+	0208533GD

**L-TUBE-F 115/33W ...**

L-TUBE-F packaged. Length 1150 mm, power consumption 33 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm]		Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
	L	Wattage				Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-F 115/33W	1150	33 W	asymm.	0,70	36	5100	135	A+	0208647GD	5100	135	A+	0208641GD	4900	130	A+	0208635GD
L-TUBE-F 115/33W	1150	33 W	wide	0,70	36	5100	145	A++	0208648GD	5100	145	A++	0208642GD	4900	139	A++	0208636GD
L-TUBE-F 115/33W	1150	33 W	narrow	0,70	36	5100	134	A+	0208652GD	5100	134	A+	0208646GD	4900	129	A+	0208640GD

**L-TUBE-F 120/22W ...**

L-TUBE-F packaged. Length 1200 mm, power consumption 22 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm]		Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
	L	Wattage				Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-F 120/22W	1200	22 W	asymm.	0,65	25	3700	145	A++	0208665GD	3700	145	A++	0208659GD	3500	137	A+	0208653GD
L-TUBE-F 120/22W	1200	22 W	wide	0,65	25	3700	156	A++	0208666GD	3700	156	A++	0208660GD	3500	148	A++	0208654GD
L-TUBE-F 120/22W	1200	22 W	narrow	0,65	25	3700	145	A+	0208670GD	3700	145	A+	0208664GD	3500	137	A+	0208658GD

**L-TUBE-F 145/22W ...**

L-TUBE-F packaged. Length 1450 mm, power consumption 22 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm]		Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
	L	Wattage				Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-F 145/22W	1450	22 W	asymm.	0,65	24	3700	147	A++	0208558GD	3700	147	A++	0208552GD	3600	143	A++	0208546GD
L-TUBE-F 145/22W	1450	22 W	wide	0,65	24	3700	157	A++	0208559GD	3700	157	A++	0208553GD	3600	153	A++	0208547GD
L-TUBE-F 145/22W	1450	22 W	narrow	0,65	24	3700	146	A+	0208563GD	3700	146	A+	0208557GD	3600	142	A+	0208551GD

**L-TUBE-F 145/29-43W ...**

L-TUBE-F packaged. Length 1450 mm, power consumption 29-43 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm]		Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
	L	Wattage				Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-F 145/29-43	1450	29-43 W	asymm.	0,70-1,00	32-48	5000-6900	147-138	A++/A+	0208683GD	5000-6900	147-138	A++/A+	0208677GD	4700-6600	138-132	A++/A+	0208671GD
L-TUBE-F 145/29-43	1450	29-43 W	wide	0,70-1,00	32-48	5000-6900	158-148	A++	0208684GD	5000-6900	158-148	A++	0208678GD	4700-6600	148-141	A++	0208672GD
L-TUBE-F 145/29-43	1450	29-43 W	narrow	0,70-1,00	32-48	5000-6900	146-137	A+	0208688GD	5000-6900	146-137	A+	0208682GD	4700-6600	138-131	A+	0208676GD

**L-TUBE-F 150/33W ...**

L-TUBE-F packaged. Length 1500 mm, power consumption 33 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm]		Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
	L	Wattage				Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-F 150/33W	1500	33 W	asymm.	0,77	36	5400	143	A++	0208701GD	5400	143	A++	0208695GD	5200	138	A++	0208689GD
L-TUBE-F 150/33W	1500	33 W	wide	0,77	36	5400	154	A++	0208702GD	5400	154	A++	0208696GD	5200	148	A++	0208690GD
L-TUBE-F 150/33W	1500	33 W	narrow	0,77	36	5400	143	A+	0208706GD	5400	143	A+	0208700GD	5200	137	A+	0208694GD

**Accessories**



VE-LED-E



ZBK-L-TUBE 5H



ZBK-L-TUBE 17H

LED converter mounted on steel gear tray plate. Prefitted connecting cable (2 m) with cable strain relief with polarity reversal proof plug for connection to the L-TUBE. Dimensions: L = 600 mm, W = 40 mm, H = 35 mm



Model	Description	Prod. code
VE-LED-E 14-37W/DA 0,65A	Supply unit, recessed, L-TUBE, 14-37W/0,65A, DALI	0238819GD
VE-LED-E 14-37W/DA 0,70A	Supply unit, recessed, L-TUBE, 14-37W/0,70A, DALI	0238819
VE-LED-E 14-37W/DA 0,77A	Supply unit, recessed, L-TUBE, 14-37W/0,77A, DALI	0238968GD
VE-LED-E 15-33W/ND 0,65A	Supply unit, recessed, L-TUBE, 15-33W/0,65A	0228819GD
VE-LED-E 15-33W/ND 0,70A	Supply unit, recessed, L-TUBE, 15-33W/0,70A	0228819
VE-LED-E 15-33W/ND 0,77A	Supply unit, recessed, L-TUBE, 15-33W/0,77A	0228968GD
VE-LED-E 2-32W/ND 0,60A	Supply unit, recessed, L-TUBE, 2-32W/0,60A	0228818
VE-LED-E 21-50W/DA 1,00A	Supply unit, recessed, L-TUBE, 21-50W/1,00A, DALI	0238820GD
VE-LED-E 23-50W/ND 1,00A	Supply unit, recessed, L-TUBE, 23-50W/1,00A	0228820GD

**Fixing clamps:** Clips for exchangeable fixture of the L-TUBE aluminium profile on the fixing base.

Model	Description	Prod. code
ZBK-L-TUBE 17H	Fixing clip L-TUBE, H=17mm, 2 pc. incl. screws	0206805
ZBK-L-TUBE 5H	Fixing clip L-TUBE, H=5mm, 2 pc. incl. screws	0206584

# L-TUBE-BF

## L-TUBE-BF

**Design:** LED lamp RIDI L-TUBE-BF for ball-proof operation in luminaires prepared for L-TUBE-BF. Comprising base profile with LED module configured as a linear circuit board, plastic optics and plastic end caps. Cable connection on one side, 20 cm, with socket for electrical connection. Base profile made of extruded aluminium for optimum thermal management. Profiled PMMA cover for wide or narrow beam light emission. LED linear circuit board fitted with mid-power LEDs for even illumination and maximum efficiency. Colour rendering Ra >= 80, standard colour tolerance < 3 Step MacAdam (initial). Operation using an external LED driver with constant current, safety extra low voltage less than 60 Volts (SELV conformity).

**Lampholder system:** Aluminium cap profile fixture on the luminaire side for efficient heat transfer, spring steel fixing clip on the lamp side for positive locking connection with cap profile. Locking on the longitudinal side by means of a catch. Easy removal through blue plastic component. Plug and socket electrical connection.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Pre-fitted mounting in industrial and sports hall luminaires from the RIDI range. Toolless mechanical lamp change of the L-TUBE-B by releasing the catch on the connection side of the spring steel clip and sliding to the side, plug and socket electrical connection.

### Rated service life:

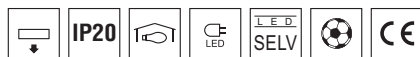
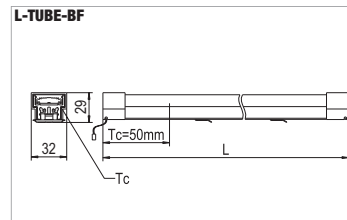
Ambient temperature -20°C to +25°C

LED components: L80B50 > 50,000 hours in luminaires with metal housing.

LED components: L80B50 > 40,000 hours in closed luminaires made of plastic.

L80B50 > 50,000 hours: Tc = 75°C

L80B50 > 40,000 hours: Tc = 80°C



### L-TUBE-BF 055/8W ...

L-TUBE-BF packaged. Length 550 mm, power consumption 8 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Wattage	Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865			Light colour 840			Light colour 830					
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-BF 055/8W 1	550	8 W	asymm.	0,60	10	1400	144	A++	0208960GD	1400	144	A++	0208959GD	1400	144	A++	0208958GD
L-TUBE-BF 055/8W 1	550	8 W	wide	0,60	10	1400	154	A++	0208954GD	1400	154	A++	0208953GD	1400	154	A++	0208952GD
L-TUBE-BF 055/8W 1	550	8 W	narrow	0,60	10	1400	143	A+	0208957GD	1400	143	A+	0208956GD	1400	143	A+	0208955GD

### L-TUBE-BF 055/14W ...

L-TUBE-BF packaged. Length 550 mm, power consumption 14 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Wattage	Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865			Light colour 840			Light colour 830					
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-BF 055/14W	550	14 W	asymm.	0,60	16	2200	136	A+	0208719GD	2200	136	A+	0208713GD	2100	130	A+	0208707GD
L-TUBE-BF 055/14W	550	14 W	wide	0,60	16	2200	146	A++	0208720GD	2200	146	A++	0208714GD	2100	139	A++	0208708GD
L-TUBE-BF 055/14W	550	14 W	narrow	0,60	16	2200	135	A+	0208724GD	2200	135	A+	0208718GD	2100	129	A+	0208712GD

### L-TUBE-BF 085/20W ...

L-TUBE-BF packaged. Length 850 mm, power consumption 20 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Wattage	Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865			Light colour 840			Light colour 830					
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-BF 085/20W	850	20 W	asymm.	0,70	23	3200	136	A+	0208737GD	3200	136	A+	0208731GD	3100	131	A+	0208725GD
L-TUBE-BF 085/20W	850	20 W	wide	0,70	23	3200	145	A++	0208738GD	3200	145	A++	0208732GD	3100	141	A++	0208726GD
L-TUBE-BF 085/20W	850	20 W	narrow	0,70	23	3200	135	A+	0208742GD	3200	135	A+	0208736GD	3100	131	A+	0208730GD

**L-TUBE-BF 115/18W ...**

L-TUBE-BF packaged. Length 1150 mm, power consumption 18 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Wattage	Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-BF 115/18W	1150	18 W	asymm.	0,65	21	3100	146	A++	0208576GD	3100	146	A++	0208570GD	2900	137	A+	0208564GD
L-TUBE-BF 115/18W	1150	18 W	wide	0,65	21	3100	157	A++	0208577GD	3100	157	A++	0208571GD	2900	147	A++	0208565GD
L-TUBE-BF 115/18W	1150	18 W	narrow	0,65	21	3100	145	A+	0208815GD	3100	145	A+	0208575GD	2900	136	A+	0208569GD

**L-TUBE-BF 115/33W ...**

L-TUBE-BF packaged. Length 1150 mm, power consumption 33 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Wattage	Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-BF 115/33W	1150	33 W	asymm.	0,70	36	5100	135	A+	0208755GD	5100	135	A+	0208749GD	4900	130	A+	0208743GD
L-TUBE-BF 115/33W	1150	33 W	wide	0,70	36	5100	145	A++	0208756GD	5100	145	A++	0208750GD	4900	139	A++	0208744GD
L-TUBE-BF 115/33W	1150	33 W	narrow	0,70	36	5100	134	A+	0208760GD	5100	134	A+	0208754GD	4900	129	A+	0208748GD

**L-TUBE-BF 120/22W ...**

L-TUBE-BF packaged. Length 1200 mm, power consumption 22 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Wattage	Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-BF 120/22W	1200	22 W	asymm.	0,65	25	3700	145	A++	0208773GD	3700	145	A++	0208767GD	3500	137	A+	0208761GD
L-TUBE-BF 120/22W	1200	22 W	wide	0,65	25	3700	156	A++	0208774GD	3700	156	A++	0208768GD	3500	148	A++	0208762GD
L-TUBE-BF 120/22W	1200	22 W	narrow	0,65	25	3700	145	A+	0208778GD	3700	145	A+	0208772GD	3500	137	A+	0208766GD

**L-TUBE-BF 145/22W ...**

L-TUBE-BF packaged. Length 1450 mm, power consumption 22 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Wattage	Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-BF 145/22W	1450	22 W	asymm.	0,65	24	3700	147	A++	0208593GD	3700	147	A++	0208587GD	3600	143	A++	0208581GD
L-TUBE-BF 145/22W	1450	22 W	wide	0,65	24	3700	157	A++	0208594GD	3700	157	A++	0208588GD	3600	153	A++	0208582GD
L-TUBE-BF 145/22W	1450	22 W	narrow	0,65	24	3700	146	A+	0208598GD	3700	146	A+	0208592GD	3600	142	A+	0208586GD

**L-TUBE-BF 145/29-43W ...**

L-TUBE-BF packaged. Length 1450 mm, power consumption 29-43 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).




















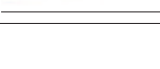

Model	Dimens. [mm] L	Wattage	Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-BF 145/29-43	1450	29-43 W	asymm.	0,70-1,00	32-48	5000-6900	147-138	A++,A+	0208909GD	5000-6900	147-138	A++,A+	0208785GD	4700-6600	138-132	A++,A+	0208908GD
L-TUBE-BF 145/29-43	1450	29-43 W	wide	0,70-1,00	32-48	5000-6900	158-148	A++	0208850GD	5000-6900	158-148	A++	0208849GD	4700-6600	148-141	A++	0208847GD
L-TUBE-BF 145/29-43	1450	29-43 W	narrow	0,70-1,00	32-48	5000-6900	146-137	A+	0208852GD	5000-6900	146-137	A+	0208851GD	4700-6600	138-131	A+	0208848GD

**L-TUBE-BF 150/33W ...**

L-TUBE-BF packaged. Length 1500 mm, power consumption 33 Watt. Colour rendering Ra > 80. Light colour 3000 (...830...), 4000 (...840...) or 6500 Kelvin (...865...).

Model	Dimens. [mm] L	Wattage	Beam	Current [A]	Energy consumption [kWh/1000h]	Light colour 865				Light colour 840				Light colour 830			
						Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
L-TUBE-BF 150/33W	1500	33 W	asymm.	0,77	36	5400	143	A++	0208809GD	5400	143	A++	0208803GD	5200	138	A++	0208797GD
L-TUBE-BF 150/33W	1500	33 W	wide	0,77	36	5400	154	A++	0208810GD	5400	154	A++	0208804GD	5200	148	A++	0208798GD
L-TUBE-BF 150/33W	1500	33 W	narrow	0,77	36	5400	143	A+	0208814GD	5400	143	A+	0208808GD	5200	137	A+	0208802GD



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Other surface-mounted luminaires from a protection rating of **IP54** are located in the chapter "High protection rating luminaires" from page 350.

# Pendant luminaire LENSES-P

## Pendant luminaire LENSES-P, direct or direct-indirect beam, with RIDI LED modules

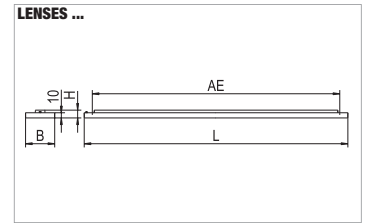
**Design:** Modern, low-profile pendant LED luminaire with square 4-row lens arrays for high-efficiency light yield. High-grade rectangular construction in extruded aluminium profile colour white (similar to RAL 9016), powder-coated mid-power LED module for maximum luminaire efficiency. Safety class I, protection rating IP20

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for DC operation and use in central battery systems.

**Mounting:** Luminaire ready for connection with prefitted transparent connecting cable and wire suspension. Wire pendant, length 1.5 mm, for stepless height adjustment.



acc. to DIN EN 60598/VDE 0711

### LENSES-PD ...

Light distribution direct through lens array, 1-piece (type ...700) or 2-piece (types ...1000 and ...1500). Glare reduction for VDU workplace lighting.



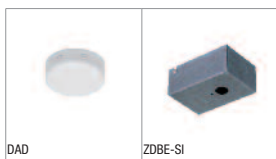
Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]					dim. conv. DALI Prod. code.
							B	H	AE min	AE max		
LENSES-PD1000/DA840	-tba-	-tba-	-tba-	-tba-	840	1018	113	25	600	900	0637482	
LENSES-PD1500/DA840	-tba-	-tba-	-tba-	-tba-	840	1466	113	25	800	1250	0637483	
LENSES-PD 700/DA840	-tba-	-tba-	-tba-	-tba-	840	738	113	25	400	625	0637481	

### LENSES-PDI ...

Direct (2/3), indirect (1/3) light distribution. Optical control direct through lens array 1-piece (type ...700) or 2-piece (types ...1000 and ...1500). Glare reduction for VDU workplace lighting. Optical control indirect through cover, matt panel in UV-stabilised PMMA.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]					dim. conv. DALI Prod. code.
							B	H	AE min	AE max		
LENSES-PDI 1000/DA840	-tba-	-tba-	-tba-	-tba-	840	1018	113	25	600	900	0637485	
LENSES-PDI 1500/DA840	-tba-	-tba-	-tba-	-tba-	840	1466	113	25	800	1250	0637486	
LENSES-PDI 700/DA840	-tba-	-tba-	-tba-	-tba-	840	738	113	25	400	625	0637484	



## Accessories

Model	Description	Prod. code.
DAD	White ceiling outlet box for power supply, 3 x 1.5 mm <sup>2</sup> , D70 x H24	0201636
DAD-SI	Ceiling outlet box, silver, f. mains cable 3x1.5mm <sup>2</sup> , D70xH24	0201636SI
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZDBE-SI	Rect. canopy silver, for Y wire pendant, ZUSP and UKNS	0204332SI



**Pendant luminaire LENSES-P ... SEN, direct or direct-indirect beam, with RIDI LED modules**

**Design:** Modern, low-profile pendant LED luminaire with square 4-row lens arrays for high-efficiency light yield. High-grade rectangular construction in extruded aluminium profile colour white (similar to RAL 9016), powder-coated mid-power LED module for maximum luminaire efficiency.

Bewegungs- und Lichtsensor in Leuchtenkopf eingebracht.

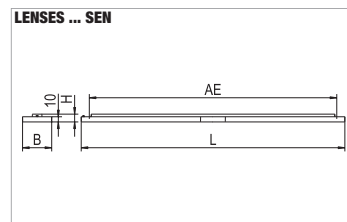
Safety class I, protection rating IP20

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for DC operation and use in central battery systems.

**Mounting:** Luminaire ready for connection with prefitted transparent connecting cable and wire suspension. Wire pendant, length 1.5 mm, for stepless height adjustment.



acc. to DIN EN 60598/VDE 0711



**LENSES-PD ... SEN**

Light distribution direct through lens array, 1-piece (type ...700) or 2-piece (types ...1000 and ...1500). Glare reduction for VDU workplace lighting.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					dim. conv. DALI Prod. code.
						L	B	H	AE min	AE max	
LENSES-PD 1100/DA840 SEN	-tba-	-tba-	-tba-	-tba-	840	1130	113	25	600	900	0637488
LENSES-PD 1600/DA840 SEN	-tba-	-tba-	-tba-	-tba-	840	1578	113	25	800	1250	0637489



**LENSES-PDI ... SEN**

Direct (2/3), indirect (1/3) light distribution. Optical control direct through lens array 1-piece (type ...700) or 2-piece (types ...1000 and ...1500). Glare reduction for VDU workplace lighting. Optical control indirect through cover, matt panel in UV-stabilised PMMA.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					dim. conv. DALI Prod. code.
						L	B	H	AE min	AE max	
LENSES-PDI 1100/DA840 SEN	-tba-	-tba-	-tba-	-tba-	840	1130	113	25	600	900	0637491
LENSES-PDI 1600/DA840 SEN	-tba-	-tba-	-tba-	-tba-	840	1578	113	25	800	1250	0637492

**Accessories**



Model	Description	Prod. code.
DAD	White ceiling outlet box for power supply, 3 x 1.5 mm <sup>2</sup> , D70 x H24	0201636
DAD-SI	Ceiling outlet box, silver, f. mains cable 3x1.5mm <sup>2</sup> , D70xH24	0201636SI
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZDBE-SI	Rect. canopy silver, for Y wire pendant, ZUSP and UKNS	0204332SI

## Pendant luminaire LENSES-P-B

### Pendant luminaire LENSES-P-B, direct or direct-indirect beam, with RIDI LED modules

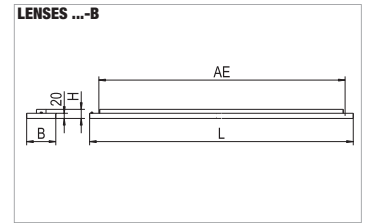
**Design:** Modern, low-profile pendant LED luminaire with square 4-row lens arrays for high-efficiency light yield. High-grade rectangular construction in extruded aluminium profile colour white (similar to RAL 9016), powder-coated mid-power LED module for maximum luminaire efficiency. Safety class I, protection rating IP20

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

#### Electrical versions:

- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for DC operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for DC operation and use in central battery systems.

**Mounting:** Luminaire ready for connection with prefitted transparent connecting cable and wire suspension. Wire pendant, length 1.5 mm, for stepless height adjustment.



acc. to DIN EN 60598/VDE 0711



#### LENSES-PD-B ...

Light distribution direct through lens array, 1-piece (type ...700) or 2-piece (types ...1000 and ...1500). Glare reduction for VDU workplace lighting.

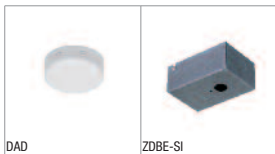
Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.	
							B	H	AE			
LENSES-PD-B 1000/xx840	-tba-	-tba-	-tba-	-tba-	840	1018	113	34	600	900	0627437	0637437
LENSES-PD-B 1500/xx840	-tba-	-tba-	-tba-	-tba-	840	1466	113	34	800	1250	0627438	0637438
LENSES-PD-B 700/xx840	-tba-	-tba-	-tba-	-tba-	840	738	113	34	400	625	0627436	0637436



#### LENSES-PDI-B ...

Direct (2/3), indirect (1/3) light distribution. Optical control direct through lens array 1-piece (type ...700) or 2-piece (types ...1000 and ...1500). Glare reduction for VDU workplace lighting. Optical control indirect through cover, matt panel in UV-stabilised PMMA.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.	
							B	H	AE			
LENSES-PDI-B 1000/xx840	-tba-	-tba-	-tba-	-tba-	840	1018	113	34	600	900	0627440	0637440
LENSES-PDI-B 1500/xx840	-tba-	-tba-	-tba-	-tba-	840	1466	113	34	800	1250	0627441	0637441
LENSES-PDI-B 700/xx840	-tba-	-tba-	-tba-	-tba-	840	738	113	34	400	625	0627439	0637439

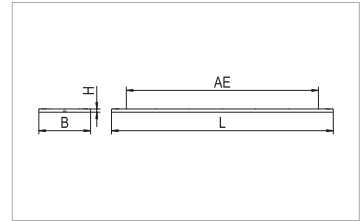


### Accessories

Model	Description	Prod. code.
DAD	White ceiling outlet box for power supply, 3 x 1.5 mm <sup>2</sup> , D70 x H24	0201636
DAD-SI	Ceiling outlet box, silver, f. mains cable 3x1.5mm <sup>2</sup> , D70xH24	0201636SI
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZDBE-SI	Rect. canopy silver, for Y wire pendant, ZUSP and UKNS	0204332SI

**Pendant luminaire F-EDGE, direct or direct-indirect beam, with RIDI LED modules**

**Design:** Individual luminaire with edge lit LED Panel for pendant mounting. Very flat profile frame on a mitre (similar to RAL9016), white or silver powder-coated (similar to RAL9006). Cover plate on top of luminaire. Back of housing features fixing holes for adjusting the luminaire fastening lengthwise with wire pendants. Panel package made of UV-resistant PMMA integrated into the luminaire frame. Luminaire is suitable for continuous mounting with corresponding accessories. Homogeneous illumination of the panel through lengthwise edge injection with highly efficient mid-power LEDs. Luminaire design with sensor for brightness and motion detection possible.



Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volts, 0/50-60 Hz with internal connector block 5 x 2.5 mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block.

**Mounting:** The luminaires are suitable for pendant mounting with a 1.5 m wire pendant (ZSPT2Z 330; see accessories). 1.5 m mains supply cable with transparent sheath (order separately).

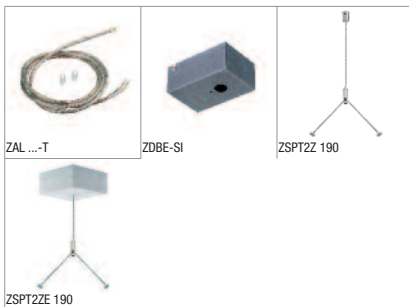
Straight joining pieces as well as ones in L, T and cross shapes are available to create F-EDGE constructs (see accessories).



**F-EDGE-PDI ...**

Direct/indirect light distribution. Panels with glare-limiting nanostructure for VDU workplace lighting. High-reflectance reflex film, partially light permeable for 40% indirect component. Cover panel at top of luminaire with openings for indirect component.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]				el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
							B	H	AE min	AE max		
F-EDGE-PDI 1200/6400-840	1xLED-M 41 W	4431	47	94	840	1200	350	22	720	1000	0627434	0637434
F-EDGE-PDI 1200/6400-840 SI	1xLED-M 41 W	4431	47	94	840	1200	350	22	720	1000	0627434SI	0637434SI
F-EDGE-PDI 1500/8700-840	1xLED-M 60 W	6023	69	87	840	1500	350	22	1020	1300	0627435	0637435
F-EDGE-PDI 1500/8700-840 SI	1xLED-M 60 W	6023	69	87	840	1500	350	22	1020	1300	0627435SI	0637435SI



**Accessories**

Model	Description	Prod. code
F-EDGE-VS	F-EDGE 250 mm luminaire connector, white, one unit for pendant mounting	0209043
F-EDGE-VS-SEN	F-EDGE 250 mm luminaire connector, white, one unit for pendant mounting with integrated sensor	0209042
F-EDGE-VS-SEN-SI	F-EDGE 250 mm luminaire connector, silver, one unit for pendant mounting with integrated sensor	0209042SI
F-EDGE-VS-SI	F-EDGE 250 mm luminaire connector, silver, one unit for pendant mounting	0209043SI
F-EDGE-VSK	F-EDGE cross shape luminaire connector, white, one unit for pendant mounting	0209044
F-EDGE-VSK-SI	F-EDGE cross shape luminaire connector, silver, one unit for pendant mounting	0209044SI
F-EDGE-VSL	F-EDGE L-shaped luminaire connector, white, one unit for pendant mounting	0209045
F-EDGE-VSL-SI	F-EDGE L-shaped luminaire connector, silver, one unit for pendant mounting	0209045SI
F-EDGE-VST	F-EDGE T-shaped luminaire connector, white, one unit for pendant mounting	0209046
F-EDGE-VST-SI	F-EDGE T-shaped luminaire connector, silver, one unit for pendant mounting	0209046SI
ZAL 3X1,5/1,5M-T	Clear mains cable, 3x1.5mm <sup>2</sup> , 1.5 metre	0207977
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5X1,5/1,5M-T	Clear mains cable, 5x1.5mm <sup>2</sup> , 1.5 metre	0207978
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZDBE-SI	Rect. canopy silver, for Y wire pendant, ZUSP and UKNS	0204332SI
ZIDV-F-EDGE 600/3/1,5	600 mm INSET for F-LINE VS/VSL/VST	0209048
ZIDV-F-EDGE 600/5/1,5	600 mm INSET for F-LINE VS/VSL/VST	0209049
ZIDV-F-EDGE 800/3/1,5	800 mm INSET for F-LINE VSK	0209050
ZIDV-F-EDGE 800/5/1,5	800 mm INSET for F-LINE VSK	0209051
ZSPT2Z 190	'Y' wire pendant with ceiling fixture, cyl. 1.5m, 1 pc	0203587
ZSPT2Z 330	'Y' wire pendant with ceiling fixture, cyl. 1.5 m, 1 pc	0206000
ZSPT2ZE 190	'Y' wire pendant, rectangular canopy, 1.5m, 1 pc	0207976
ZSPT2ZE 190 SI	'Y' wire pendant, rectangular canopy silver, 1.5m, 1 pc	0207976SI
ZSPT2ZE 330	Wire pendant trapezoid, rectangular canopy, white, 1.5 m, one unit	0209047
ZSPT2ZE 330	Wire pendant trapezoid, rectangular canopy, silver, 1.5 m, one unit	0209047SI

# Q-LED ...

## Surface-mounted luminaire series Q-LED, single mounting, direct beam

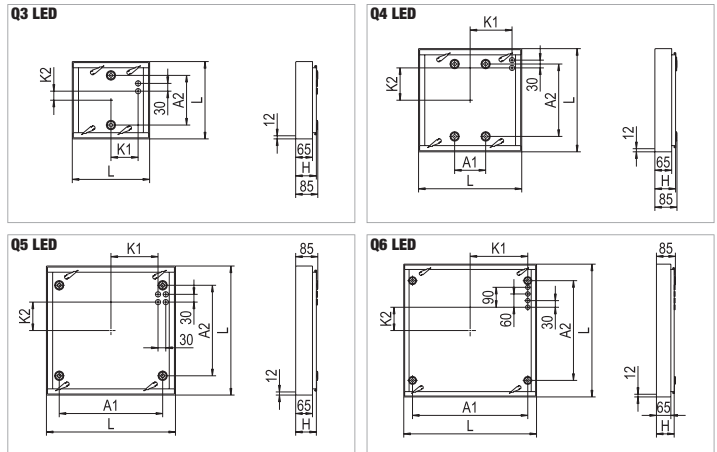
**Design:** Square surface-mounted luminaire for ceiling and wall mounting, with RIDI-LED modules, direct beam. Recessed basic housing in white powder coated steel, cowling in powder coated steel white (similar to RAL9016) / silver (-SI, similar to RAL9006) with laid-in acrylic panel in UV-stabilised PMMA. Cowling with narrow rim is mounted using twist catches without the need for tools. LED module formed as a flat circuit board. Mid-power LEDs ensure even illumination and maximum efficiency. LED driver prefitted in luminaire housing. Operation at safety extra-low voltage below 60 Volt (SELV-conformity).

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Surface mounting using supplied accessories. Pendant mounting with 2x ZSP..

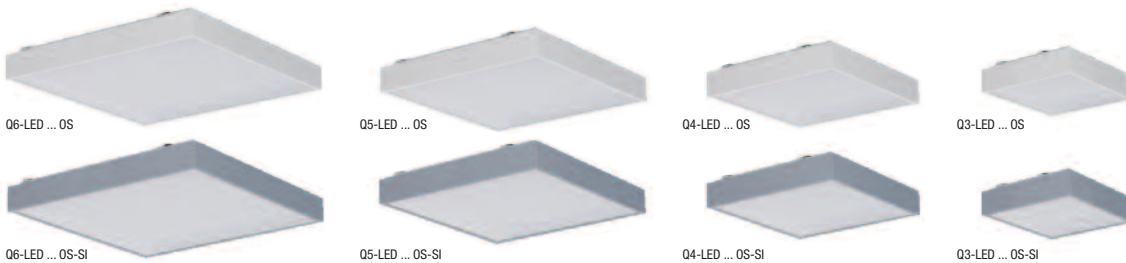


### Non-standard designs:

- Non-standard body colours
- Emergency light designs



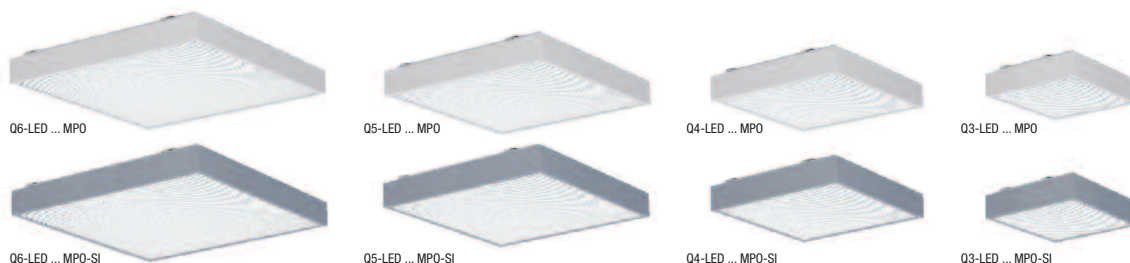
acc. to DIN EN 60598/VDE 0711



### Q ... LED-OS

Laid-in acrylic panel in opal UV-stabilised PMMA with matt finish on both sides LED spots not visible.

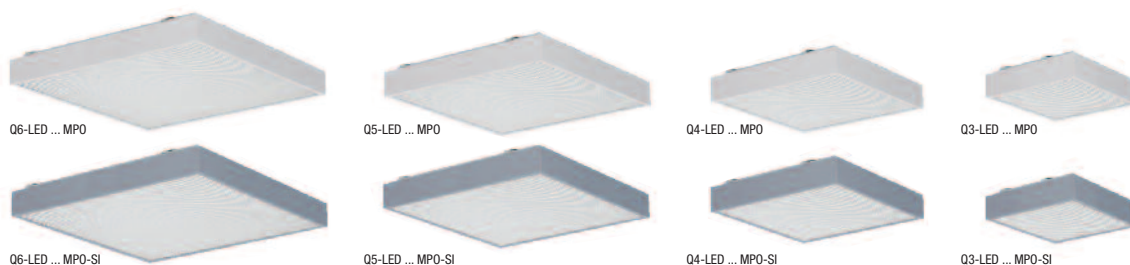
Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]						el. conv. Prod. code.	dim. conv. DALI Prod. code.
						L	H	A1	A2	K1	K2		
Q3-LED 800-840 OS	1xLED-M 5 W	574	5	114	840	299	80	-	200	105	35	0623528	0633528
Q3-LED 800-840 OS-SI	1xLED-M 5 W	574	5	114	840	299	80	-	200	105	35	0623528SI	0633528SI
Q4-LED 1300-840 OS	1xLED-M 8 W	972	10	97	840	399	80	120	280	148	116	0623535	0633535
Q4-LED 1300-840 OS-SI	1xLED-M 8 W	972	10	97	840	399	80	120	280	148	116	0623535SI	0633535SI
Q5-LED 2400-840 OS	4xLED-M 4 W	2227	23	96	840	499	80	400	350	182	110	0623538	0633538
Q5-LED 2400-840 OS-SI	4xLED-M 4 W	2227	23	96	840	499	80	400	350	182	110	0623538SI	0633538SI
Q6-LED 5200-840 OS	2xLED-M 15 W	3837	37	103	840	599	80	520	450	265	105	0623547	0633547
Q6-LED 5200-840 OS-SI	2xLED-M 15 W	3837	37	103	840	599	80	520	450	265	105	0623547SI	0633547SI



**Q ... LED-MPO**

Laid-in acrylic panels made of UV-stabilised PMMA, inside opal, outside with external microprisms to reduce glare for correct illumination of VDU workstations. LED spots not visible.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]				el. conv. Prod. code.	dim. conv. DALI Prod. code.	
							H	A1	A2	K1			K2
Q3-LED 800-840 MPO	1xLED-M 5 W	549	5	109	840	299	80	-	200	105	35	0623549	0633549
Q3-LED 800-840 MPO-SI	1xLED-M 5 W	549	5	109	840	299	80	-	200	105	35	0623549SI	0633549SI
Q4-LED 1300-840 MPO	1xLED-M 8 W	911	10	91	840	399	80	120	280	148	116	0623551	0633551
Q4-LED 1300-840 MPO-SI	1xLED-M 8 W	911	10	91	840	399	80	120	280	148	116	0623551SI	0633551SI
Q5-LED 2400-840 MPO	4xLED-M 4 W	2119	23	92	840	499	80	400	350	182	110	0623553	0633553
Q5-LED 2400-840 MPO-SI	4xLED-M 4 W	2119	23	92	840	499	80	400	350	182	110	0623553SI	0633553SI
Q6-LED 5200-840 MPO	2xLED-M 15 W	3645	37	98	840	599	80	520	450	265	105	0623555	0633555
Q6-LED 5200-840 MPO-SI	2xLED-M 15 W	3645	37	98	840	599	80	520	450	265	105	0623555SI	0633555SI



**Q ... LED-MPS**

Laid-in microprism acrylic panel made of UV-stabilised PMMA to reduce glare for correct illumination of VDU workstations. LEDs appear as circles on the panel.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]				el. conv. Prod. code.	dim. conv. DALI Prod. code.	
							H	A1	A2	K1			K2
Q3-LED 800-840 MPS	1xLED-M 5 W	590	5	118	840	299	80	-	200	105	35	0623548	0633548
Q3-LED 800-840 MPS-SI	1xLED-M 5 W	590	5	118	840	299	80	-	200	105	35	0623548SI	0633548SI
Q4-LED 1300-840 MPS	1xLED-M 8 W	981	10	98	840	399	80	120	280	148	116	0623550	0633550
Q4-LED 1300-840 MPS-SI	1xLED-M 8 W	981	10	98	840	399	80	120	280	148	116	0623550SI	0633550SI
Q5-LED 2400-840 MPS	4xLED-M 4 W	2279	23	99	840	499	80	400	350	182	110	0623552	0633552
Q5-LED 2400-840 MPS-SI	4xLED-M 4 W	2279	23	99	840	499	80	400	350	182	110	0623552SI	0633552SI
Q6-LED 5200-840 MPS	2xLED-M 15 W	3926	37	106	840	599	80	520	450	265	105	0623554	0633554
Q6-LED 5200-840 MPS-SI	2xLED-M 15 W	3926	37	106	840	599	80	520	450	265	105	0623554SI	0633554SI



**Accessories**

Model	Description	Prod. code.
ZSP-Q.	Wire pendant, ceiling fixture, wire clamp, 1.5m, 1 set	0209031

**Note:** One wire or tube pendant must be ordered per suspension point.

## Q.I-LED ...

### Surface-mounted luminaire series Q.I-LED, single mounting, direct-indirect beam

**Design:** Square surface-mounted luminaire for ceiling and wall mounting, with RIDI-LED modules, direct-indirect beam. Recessed basic housing in white powder coated steel. Perforations on rear for indirect lighting component, perforations with covered with clear acrylic film. Cowling in powder coated steel white (similar to RAL9016) / silver (-SI, similar to RAL9006) with laid-in acrylic panel in UV-stabilised PMMA.

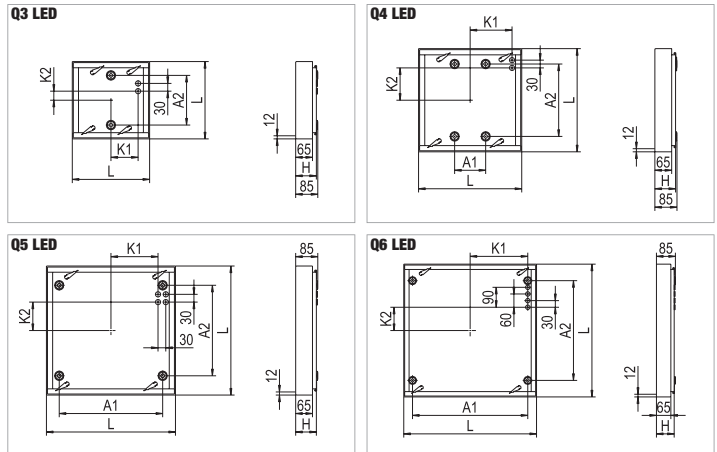
Cowling with narrow rim is mounted using twist catches without the need for tools. LED module formed as a flat circuit board. Mid-power LEDs ensure even illumination and maximum efficiency. LED driver prefitted in luminaire housing. Operation of LED modules at safety extra-low voltage below 60 Volt (SELV-conformity).

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

#### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Surface mounting using supplied accessories. Pendant mounting with 2x ZSP..



#### Non-standard designs:

- Non-standard body colours
- Indirect lighting component with inlaid colour films
- Emergency light designs



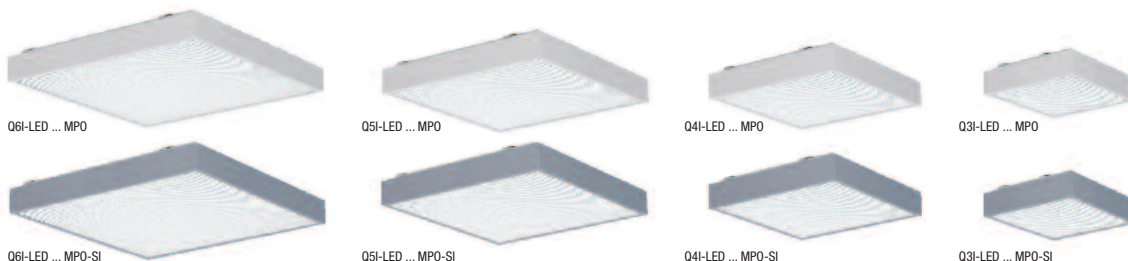
acc. to DIN EN 60598/VDE 0711



#### Q.I ... LED-OS

Laid-in acrylic panel in opal UV-stabilised PMMA with matt finish on both sides. LED spots not visible.

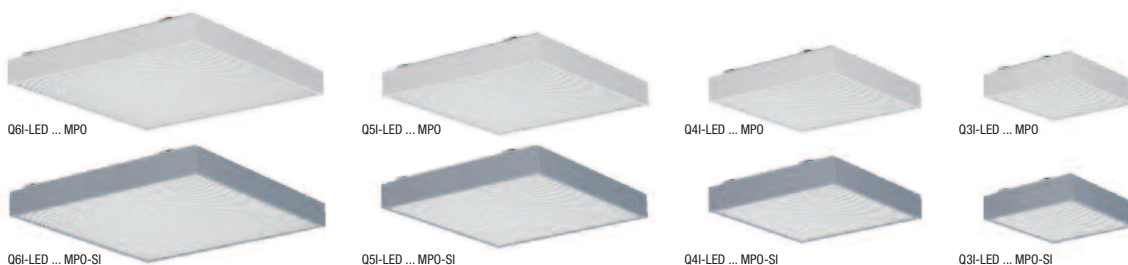
Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]						el. conv. Prod. code.	dim. conv. DALI Prod. code.
						L	H	A1	A2	K1	K2		
Q3I-LED 800-840 OS	1xLED-M 5 W	610	5	122	840	299	80	-	200	105	35	0627312	0637312
Q3I-LED 800-840 OS-SI	1xLED-M 5 W	610	5	122	840	299	80	-	200	105	35	0627312SI	0637312SI
Q4I-LED 1300-840 OS	1xLED-M 8 W	1030	10	103	840	399	80	120	280	148	116	0627313	0637313
Q4I-LED 1300-840 OS-SI	1xLED-M 8 W	1030	10	103	840	399	80	120	280	148	116	0627313SI	0637313SI
Q5I-LED 2400-840 OS	4xLED-M 4 W	2378	23	103	840	499	80	400	350	182	110	0627314	0637314
Q5I-LED 2400-840 OS-SI	4xLED-M 4 W	2378	23	103	840	499	80	400	350	182	110	0627314SI	0637314SI
Q6I-LED 5200-840 OS	2xLED-M 15 W	4124	37	111	840	599	80	520	450	265	105	0627315	0637315
Q6I-LED 5200-840 OS-SI	2xLED-M 15 W	4124	37	111	840	599	80	520	450	265	105	0627315SI	0637315SI



**Q.I ... LED-MPO**

Laid-in acrylic panels made of UV-stabilised PMMA, inside opal, outside with external microprisms to reduce glare for correct illumination of VDU workstations. LED spots not visible.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]				K1	K2	el. conv. Prod. code.	dim. conv. DALI Prod. code.
							H	A1	A2					
Q3I-LED 800-840 MPO	1xLED-M 5 W	549	5	109	840	299	80	-	200	105	35	0623556	0633556	
Q3I-LED 800-840 MPO-SI	1xLED-M 5 W	549	5	109	840	299	80	-	200	105	35	0623556SI	0633556SI	
Q4I-LED 1300-840 MPO	1xLED-M 8 W	913	10	91	840	399	80	120	280	148	116	0623558	0633558	
Q4I-LED 1300-840 MPO-SI	1xLED-M 8 W	913	10	91	840	399	80	120	280	148	116	0623558SI	0633558SI	
Q5I-LED 2400-840 MPO	4xLED-M 4 W	2119	23	92	840	499	80	400	350	182	110	0623560	0633560	
Q5I-LED 2400-840 MPO-SI	4xLED-M 4 W	2119	23	92	840	499	80	400	350	182	110	0623560SI	0633560SI	
Q6I-LED 5200-840 MPO	2xLED-M 15 W	3640	37	98	840	599	80	520	450	265	105	0623562	0633562	
Q6I-LED 5200-840 MPO-SI	2xLED-M 15 W	3640	37	98	840	599	80	520	450	265	105	0623562SI	0633562SI	



**Q.I ... LED-MPS**

Laid-in microprism acrylic panel made of UV-stabilised PMMA to reduce glare for correct illumination of VDU workstations. LEDs appear as circles on the panel.

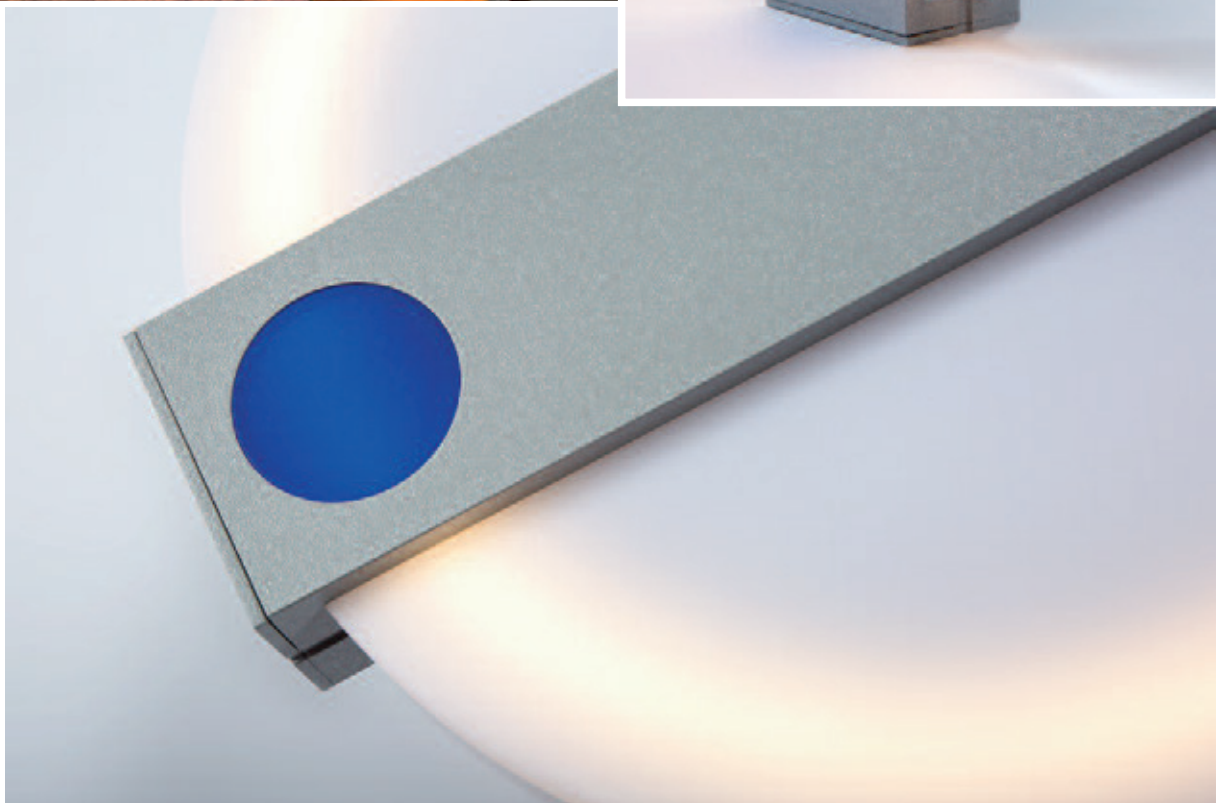
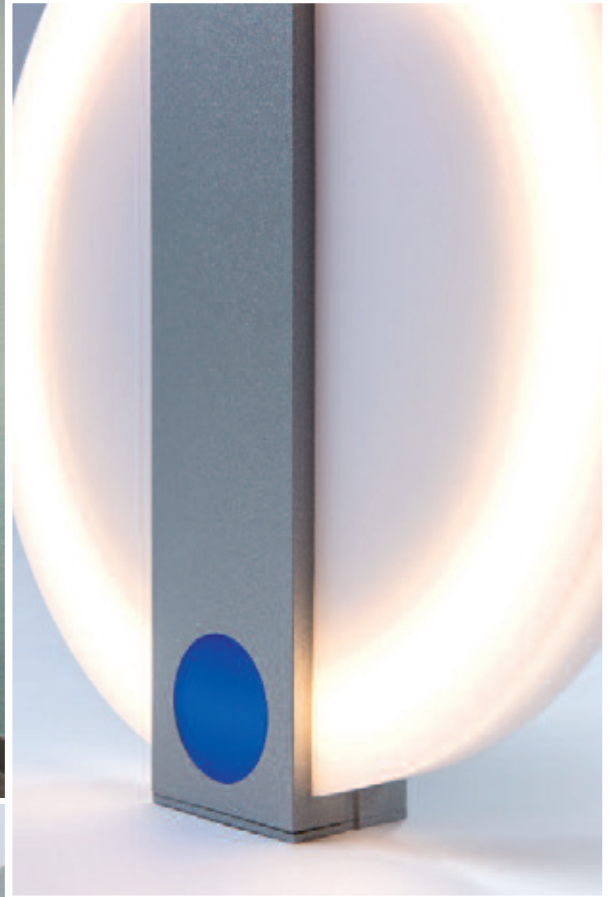
Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]				K1	K2	el. conv. Prod. code.	dim. conv. DALI Prod. code.
							H	A1	A2					
Q3I-LED 800-840 MPS	1xLED-M 5 W	590	5	118	840	299	80	-	200	105	35	0623557	0633557	
Q3I-LED 800-840 MPS-SI	1xLED-M 5 W	590	5	118	840	299	80	-	200	105	35	0623557SI	0633557SI	
Q4I-LED 1300-840 MPS	1xLED-M 8 W	982	10	98	840	399	80	120	280	148	116	0623559	0633559	
Q4I-LED 1300-840 MPS-SI	1xLED-M 8 W	982	10	98	840	399	80	120	280	148	116	0623559SI	0633559SI	
Q5I-LED 2400-840 MPS	4xLED-M 4 W	2279	23	99	840	499	80	400	350	182	110	0623561	0633561	
Q5I-LED 2400-840 MPS-SI	4xLED-M 4 W	2279	23	99	840	499	80	400	350	182	110	0623561SI	0633561SI	
Q6I-LED 5200-840 MPS	2xLED-M 15 W	3926	37	106	840	599	80	520	450	265	105	0623563	0633563	
Q6I-LED 5200-840 MPS-SI	2xLED-M 15 W	3926	37	106	840	599	80	520	450	265	105	0623563SI	0633563SI	



**Accessories**

Model	Description	Prod. code.
ZSP-Q.	Wire pendant, ceiling fixture, wire clamp, 1.5m, 1 set	0209031

**Note:** One wire or tube pendant must be ordered per suspension point.





## CORONA-LED

**Design:** Surface-mounted luminaire for wall, ceiling or pendant mounting with RIDI LED modules. Luminaire housing made of high-grade extruded sectional aluminium, powder coated white (similar to RAL9016) or silver coloured (similar to RAL9006). Two lateral cowl elements made of UV-stabilised matt-opal PC. Translucent coloured accentuation point in blue UV stabilised PMMA at the front of the luminaire, available in other colours as an accessory. LED modules formed as circular segments, LEDs appear in ring formation. Mid-power LEDs ensure even illumination and maximum efficiency. LED driver prefitted in luminaire housing. Operation of LED modules at safety extra-low voltage below 60 Volt (SELV-conformity).

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

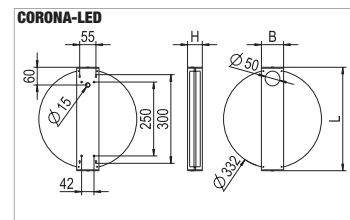
**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.

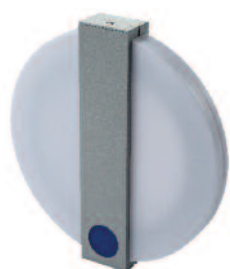
**Mounting:** The luminaires are suitable for direct fixture on the ceiling or wall.

**Pendant mounting** using the tube pendant accessory CORONA-RP 050/100 or 2x wire pendant ZSPT2Z 120.

**Wall mounting** direct or using wall spacer accessory CORONA-WA



acc. to DIN EN 60598/VDE 0711

**CORONA-D LED ...**

LED modules, beam directed to the front.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code.	dim. conv. DALI Prod. code.
						L	B	H		
CORONA-D LED 1810-840xx	1xLED-M 11 W	1150	13	88	840	350	75	50	0650563	0660563
CORONA-D LED 1810-840xx-SI	1xLED-M 11 W	1150	13	88	840	350	75	50	0650563SI	0660563SI

**CORONA-DI LED ...**

LED modules, beam directed to the front and rear.

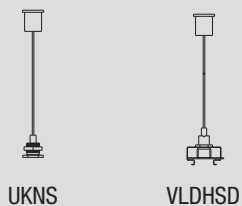
Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code.	dim. conv. DALI Prod. code.
						L	B	H		
CORONA-DI LED 3170-840xx	1xLED-M 19 W	2100	23	91	840	350	75	50	0650564	0660564
CORONA-DI LED 3170-840xx-SI	1xLED-M 19 W	2100	23	91	840	350	75	50	0650564SI	0660564SI

**Accessories**

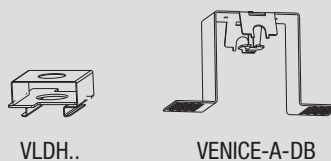
Model	Description	Prod. code.
CORONA-DPO	Decorative coloured disc, orange	0205386
CORONA-DPR	Decorative coloured disc, red	0205385
CORONA-DPW	Decorative coloured disc, white	0205384
CORONA-RP 050	Rect. tube pendant, rect. canopy, 0.5m, white, 1 pc	0205380
CORONA-RP 050-SI	Rect. tube pendant, rect. canopy, 0.5m, silver, 1 pc.	0205380SI
CORONA-RP 100	Rect. tube pendant, rect. canopy, 1.0m, white, 1 pc	0205381
CORONA-RP 100-SI	Rect. tube pendant, rect. canopy, 1.0m, silver, 1 pc.	0205381SI
CORONA-WA	Wall spacer, aluminium profile, white	0205383
CORONA-WA-SI	Wall spacer, aluminium profile, silver	0205383SI
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZDBE-SI	Rect. canopy silver, for Y wire pendant, ZUSP and UKNS	0204332SI
ZSPT2Z 120	Y' wire pendant with ceiling fixture, cyl. 1.5 m, 1 pc	0203582
ZSPT2ZE 120	Y' wire pendant rectangular canopy white, cyl. 1.5 m, 1 pc	0202895
ZSPT2ZE 120-SI	Y wire pendant, rect. canopy silver, cyl., 1.5m, 1pc	0202895SI

**FIXING KITS**

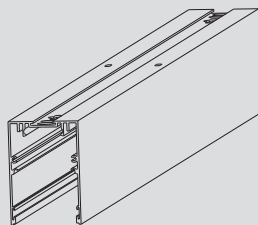
Ceiling mounting:



Pendant mounting:



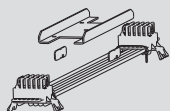
**CHANNEL**



VENICE-A-F ...

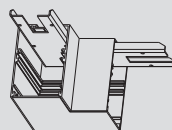
**PROFILE CONNECTORS**

Straight connector:

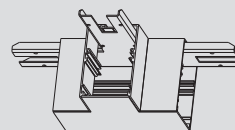


VENICE-TV

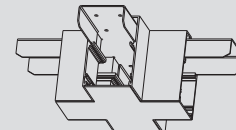
Connector for the creation of lighting constructs:



VENICE-A-VSL



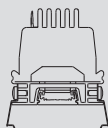
VENICE-A-VST



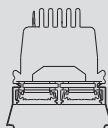
VENICE-A-VSK

**GEAR TRAYS**

With LED linear modules:

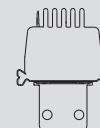


VENICE-G-F1...



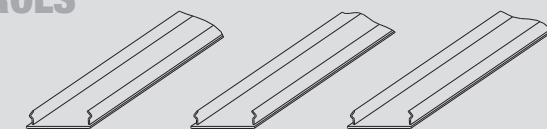
VENICE-G-F2...

For RIDI-TUBE lamp:



VENICE-G-R1...

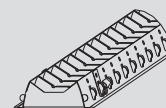
**OPTICAL CONTROLS**



VENICE-ZAB

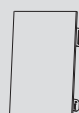
VENICE-ZAO

VENICE-ZMPS



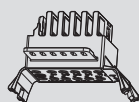
VENICE-SRM

**END CAPS**

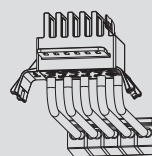


VENICE-AE

**MAINS CONNECTORS  
CONNECTING CABLES**



VLNE-..S



VLNE-..F

### VENICE-A-F channel

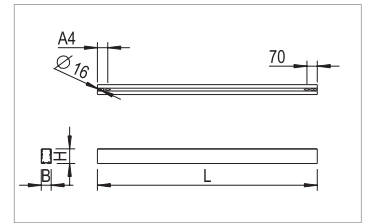
**Design:** Channel for direct luminaire made of extruded aluminium profile, natural anodised surface finish (-NE). T-groove in aluminium profile to accommodate lengthways-adjustable wire pendants. Prepared to accommodate the gear tray and VENICE modular system accessories.

Aluminium channels are each available in a 1-, 2- or 3-length design.

Can be used for VENICE products in protection rating IP20. Through wiring with flexible take-off 5 x 2.5 mm<sup>2</sup> and 6 x 1.5 mm<sup>2</sup> for control cable and two separate emergency lighting circuits.

**Installation:** Ceiling or pendant mounting. Channel with keyholes for consistent mounting distances and with a T-slot for accommodating lengthways-adjustable fastening elements. For almost rimless mounting, the surface-mounting light channel VENICE-A can also be mounted and concreted in using a suitable fixing kit. L-shaped, T-shaped, and cross-shaped connectors can be delivered for VENICE products, see Accessories.

Joining pieces in L, T and cross shapes are available to create VENICE constructs, see accessories.



acc. to DIN EN 60598/VDE 0711

#### VENICE-A-F ...



Model	Description	Dimens. [mm]			el. conv. Prod. code.
		L	B	H	
VENICE-A-F1X149-11-NE	Profile L=1488 / through wiring 11-core	1488	67	98	0528261AF
VENICE-A-F1X154-11-NE	Profile L=1188 / through wiring 11-core	1188	67	98	0528264AF
VENICE-A-F2X149-11-NE	Profile L=2974 / through wiring 11-core	2974	67	98	0528262AF
VENICE-A-F2X154-11-NE	Profile L=2374 / through wiring 11-core	2374	67	98	0528265AF
VENICE-A-F3X149-11-NE	Profile L=4460 / through wiring 11-core	4460	67	98	0528263AF
VENICE-A-F3X154-11-NE	Profile L=3560 / through wiring 11-core	3560	67	98	0528266AF

### VENICE-G-F gear tray LED with RIDI LED linear modules

**Design:** Gear tray VENICE-G-F... for direct luminaires. Recessed to the channel profile edge for installation of OS or MPS covers. Made of extruded aluminium, with powder-coated white finish similar to RAL9016 and RIDI LED modules with longitudinal optics made of extruded, UV-resistant PMMA, wide-beam light distribution for standardised illumination of the cover. RIDI LED linear modules with mid-power LEDs for optimum efficiency. SELV-compliant LED modules for optimal heat dissipation over the full area of the aluminium profile.

The gear trays can be mounted with spring clips anywhere on the support profile. Electrical adapter for flexible transmission of take-off into the channel profile. Phase selection via sliding contact. Mechanical coding to avoid improper installation (anti-rotation protection).

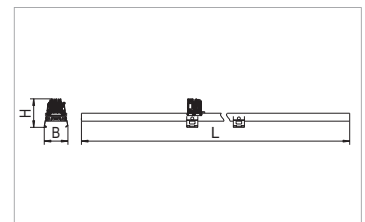
The LED modules are fitted with LEDs up to the ends of the gear trays, and no shadows are visible with continuous installation. The luminescence levels of the various lengths are practically identical, and the lengths can be mixed amongst each other with various row arrangements for the luminaires.

colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

#### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

**Installation:** By means of spring clips in the aluminium profile without tools, independent contacting of the protective conductor.



acc. to DIN EN 60598/VDE 0711

#### VENICE-G-F ...B...

Linear lenses with broad-beam light distribution from clear, UV-resistant PMMA, integrated flush into the gear tray.



Model	Lamps	Luminous colour	Dimens. [mm]			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
			L	B	H		
VENICE-G-F149-xxWS-480B830	1xLED-M 29 W	830	1483	58	78	0526109	0536109
VENICE-G-F149-xxWS-500B840	1xLED-M 29 W	840	1483	58	78	0526110	0536110
VENICE-G-F154-xxWS-380B830	1xLED-M 25 W	830	1183	58	78	0526107	0536107
VENICE-G-F154-xxWS-400B840	1xLED-M 25 W	840	1183	58	78	0526108	0536108
VENICE-G-F249-xxWS-1000B840	2xLED-M 29 W	840	1483	58	78	0526121	0536121
VENICE-G-F249-xxWS-960B830	2xLED-M 29 W	830	1483	58	78	0526120	0536120
VENICE-G-F254-xxWS-740B830	2xLED-M 25 W	830	1183	58	78	0526118	0536118
VENICE-G-F254-xxWS-800B840	2xLED-M 25 W	840	1183	58	78	0526119	0536119

# VENICE gear trays / covers

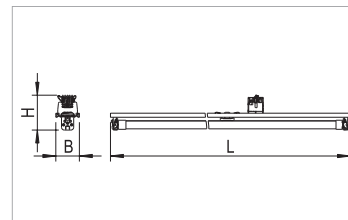
## VENICE-G-R for RIDI-TUBE lamp

**Design:** Profiled LED gear tray made of galvanised steel plate, coated in white. For RIDI-TUBE lights (ordered separately). Plastic-coated, quick-release catch for fastening to the VENICE channel. The gear trays can be mounted anywhere on the channel. Electrical adapter for flexible transmission of take-off into the channel. Phase selection via sliding contact. Mechanical coding to avoid improper installation (anti-rotation protection).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.



acc. to DIN EN 60598/VDE 0711



### VENICE-G-R ...

Gear tray for installation in VENICE profile. Recommended cover for RIDI-TUBE light: matt.

Model	Lamps max.	R-TUBE Category	Dimens. (mm)			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
			L	B	H		
VENICE-G-R1X115/30xx	1xR-TUBE 30 W	F	1186	64	74	0526116	0536116
VENICE-G-R1X145/35xx	1xR-TUBE 35 W	H, I	1486	64	74	0526117	0536117

## Cover VENICE-Z..

**Design:** Luminaire cover for clipping into the aluminium VENICE-A-F ... and VENICE-E-F... support profile



### VENICE-ZAB

Luminaire blank cover made of aluminium extruded profile. Surface natural anodized.

The covers are available for the lengths 28/54 watt or 35/49/80 watt and in single, double or triple length versions respectively.

Model	Description	L	Prod. code.
VENICE-ZAB F1X149 NE	Luminaire cover natural anodised aluminium F1X149, 1-length	1487	0208927AF
VENICE-ZAB F1X154 NE	Luminaire cover natural anodised aluminium F1X154, 1-length	1187	0208930AF
VENICE-ZAB F2X149 NE	Luminaire cover natural anodised aluminium F2X149, 2-length	2973	0208928AF
VENICE-ZAB F2X154 NE	Luminaire cover natural anodised aluminium F2X154, 2-length	2375	0208931AF
VENICE-ZAB F3X149 NE	Luminaire cover natural anodised aluminium F3X149, 3-length	4459	0208929AF
VENICE-ZAB F3X154 NE	Luminaire cover natural anodised aluminium F3X154, 3-length	3559	0208932AF



### VENICE-ZAO

Luminaire cover made of opal, UV-resistant PMMA with a satin-finish surface.

The covers are available for the lengths 28/54 watt or 35/49/80 watt and in single, double or triple length versions respectively.

Model	Description	L	Prod. code.
VENICE-ZAO F1X149	Luminaire cover opal F1X149 1-length, PMMA	1484	0208915
VENICE-ZAO F1X154	Luminaire cover opal F1X154 1-length, PMMA	1184	0208918
VENICE-ZAO F2X149	Luminaire cover opal F2X149 2-length, PMMA	2972	0208916
VENICE-ZAO F2X154	Luminaire cover opal F2X154 2-length, PMMA	2373	0208919
VENICE-ZAO F3X149	Luminaire cover opal F3X149 3-length, PMMA	4456	0208917
VENICE-ZAO F3X154	Luminaire cover opal F3X154 3-length, PMMA	3557	0208920



### VENICE-ZMPS

Transparent co-extruded plastic cover made of clear UV-resistant PMMA with external micro-prismatic structure. Internal longitudinal ribs for locking made of impact-resistant, UV-resistant PMMA, opaquely coloured to prevent unwanted light reflections.

Model	Description	L	Prod. code.
VENICE-ZMPS F1X149	Luminaire cover MPS F1X149, 1-length, PMMA	1484	0208921
VENICE-ZMPS F1X154	Luminaire cover MPS F1X154, 1-length, PMMA	1184	0208924
VENICE-ZMPS F2X149	Luminaire cover MPS F2X149, 2-length, PMMA	2972	0208922
VENICE-ZMPS F2X154	Luminaire cover MPS F2X154, 2-length, PMMA	2373	0208925
VENICE-ZMPS F3X149	Luminaire cover MPS F3X149, 3-length, PMMA	4456	0208923
VENICE-ZMPS F3X154	Luminaire cover MPS F3X154, 3-length, PMMA	3557	0208926

**Parabolic mirror louvre VENICE-SRM-R**

**Design:** Parabolic reflector louvre for clipping into the VENICE-A-F... and VENICE-E-F... support profile Can be used in connection with VENICE-G-R gear tray. One parabolic louvre is required for each gear tray.



**VENICE-SRM**

Parabolic mirror louvre constructed of silk matt super-purity anodised aluminium with silver coating

Model	Description	L	Prod. code.
VENICE-SRM-R1X115	Parabolic mirror louvre matt anodised R-TUBE 115	1186	0208933
VENICE-SRM-R1X145	Parabolic mirror louvre matt anodised R-TUBE 145	1486	0208934

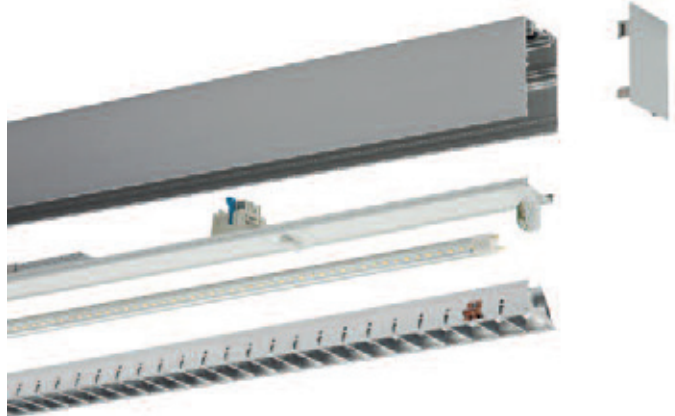
**Accessories for VENICE-A...**



Model	Description	Prod. code.
UKNRE 050-SI	Tube pendant for univ. junct., rect. canopy, silver 0.5m	0202869SI
UKNRE 100-SI	Tube pendant for univ. junct., rect. canopy, silver 1.0m	0202870SI
UKNS	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0210958
UKNSE-SI	Wire pendant with rect. canopy, silver, 1.5m, 1pc	0202879SI
VENICE-A-DB	Recessed ceiling mounting kit for VENICE-A, 1 pc	0208125
VENICE-A-VSK-5	X-sh. lum. connector for VENICE-A, 5-pin, anodised, 1 pc	0208345AF
VENICE-A-VSK-7	x-sh. lum.connector for VENICE-A, 7-pin, anodised, 1 pc.	0208410AF
VENICE-A-VSL-5	L-sh. lum. connector for VENICE-A, 5-pin anodised, 1 pc	0208343AF
VENICE-A-VSL-7	L-sh. lum. connector for VENICE-A, 7-pin, anodised, 1 pc	0208411AF
VENICE-A-VST-5	T-sh. lum. connector for VENICE-A, 5-pin anodised, 1 pc	0208344AF
VENICE-A-VST-7	T-sh. lum. connector for VENICE-A, 7-pin, anodised, 1 pc	0208412AF
VENICE-A/E BET 128/54	Concrete casting b. VENICE-A/E .54 plaster/concrete ceilings	1208050
VENICE-A/E BET 135/49/80	Concrete casting b. VENICE-A/E .80 plaster/concrete ceilings	1208051
VENICE-AE NE	End cap for VENICE-A, natural anodized, 1 pc	1208007AF
VENICE-TV-5	Trunking connector for 5-pin wiring, 1 pc	1208009
VENICE-TV-7	Trunking connector for 7-pin wiring, 1 pc.	1208063
VLDHD	Ceiling mounting VLD, H=12.5mm, lengthwise adjustment, 1 pc	0202590
VLDHK	Chain fixing for VLD, lengthw. adjustment, 1 pc	0202596
VLDHS	Wire pendant VLD w. ring loop, lengthw. adj. 1 pc	0202591
VLDHSD	Wire pendant VLD w. ceiling fixing, lengthw. adj. 1 pc	0202592
VLDHT	Quick fixing f. syst. ceil. VLD, H=12.5mm, lengthw. adj.	0202595
VLDHW	Wall fixing for VLD, lengthw. adj, white, 1 pc	0202597
VLNE-11F	Mains connector 11-core, stranded IP20/54, 1 pc	1207049
VLNE-11S	Mains connector 11-core, single wire IP20/54, 1 pc	1207043
VLNE-5F	Mains connector 5-core, stranded IP20/54, 1 pc	1207047
VLNE-5S	Mains connector 5-core, single wire IP20/54, 1 pc	1207041
VLNE-7F	Mains connector 7-core, stranded IP20/54, 1 pc	1207048
VLNE-7S	Mains connector 7-core, single wire IP20/54, 1 pc	1207042
ZAL 3X1,5/1,5M-T	Clear mains cable, 3x1.5mm <sup>2</sup> , 1.5 metre	0207977
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5X1,5/1,5M-T	Clear mains cable, 5x1.5mm <sup>2</sup> , 1.5 metre	0207978
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZDBE-SI	Rect. canopy silver, for Y wire pendant, ZUSP and UKNS	0204332SI
ZKF 3X0,75/1,0M	Cable guide C-profile, for dia. 4-5mm, 1 metre, transparent	0207979
ZRO	Frame opener	0204003



Channel VENICE-A-F / end cap VENICE-AE + gear tray VENICE-G-F with LED modules + cover VENICE-ZMPS

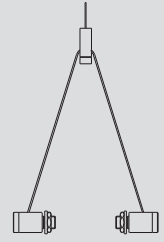
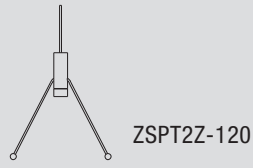


Channel VENICE-A-F / end cap VENICE-AE + gear tray VENICE-G-R for RIDI-TUBE lamp + parabolic mirror louvre VENICE-SRM

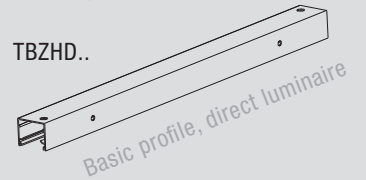
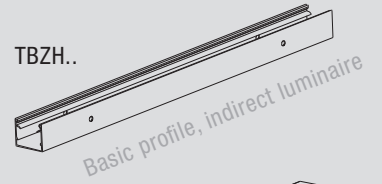
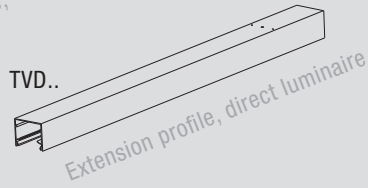
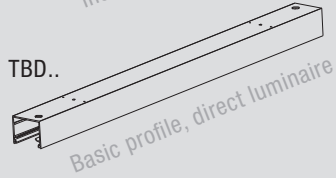
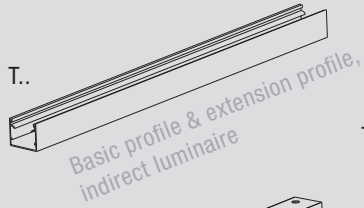


# U-LINE LED – luminaire system with U-shaped cross section

## FIXING KITS



## CHANNELS



## PROFILE CONNECTORS

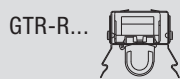
straight connector



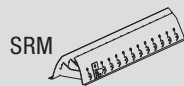
Connector for the creation of lighting constructs



## GEAR TRAYS



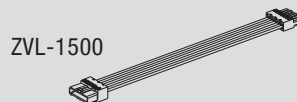
## OPTICAL CONTROLS



## END CAPS

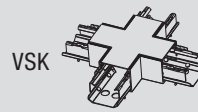
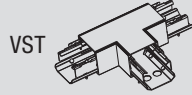
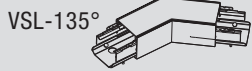
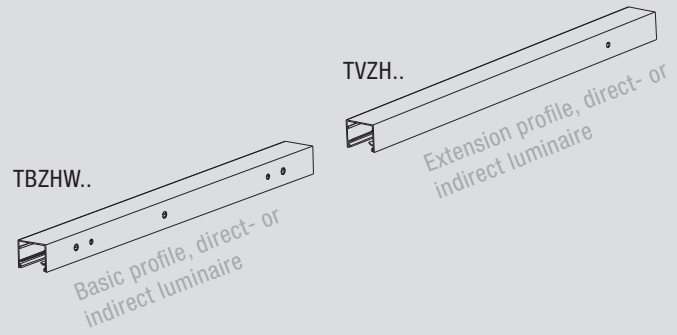
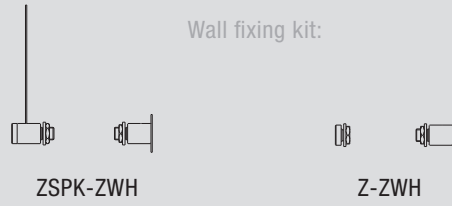
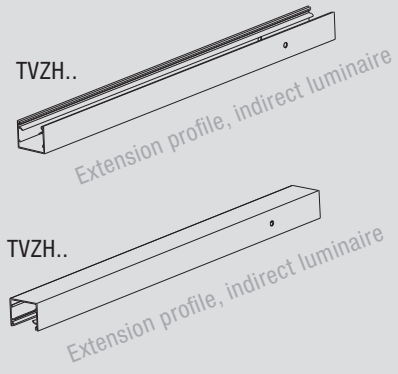


## MAINS CONNECTORS CONNECTING CABLES



Connecting cables where gear trays are mounted at a distance

ZSPT2Z-295-ZH



**DUMMY LUMINAIRE COVER**



ED-GO



ED-GO-NAL



ZEL-NA-U-LINE



Mains connector, the electrical connector is located in the gear tray

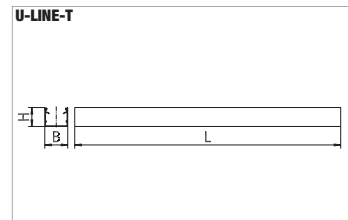
# U-LINE channel profiles

## U-LINE-T, channel profile for indirect luminaire

**Design:** Channel for indirect luminaire constructed of aluminium U-shaped cross-section extrusion, with natural anodised surface finish (-NE). The channels are available in 21/39, 28/54 and 35/49/80 wattages, and are each available in a 1, 2 or 3-length design. Oblong groove in sectional aluminium to accommodate lengthways adjustable wire pendants. Prepared to accommodate the luminaire reflector and U-LINE system accessories.

**Mounting:** Y-shaped wire pendant mounting (accessory ZSPT2Z 120), positioned on the face side in the oblong groove, permitting lengthways adjustment. Ceiling fixture and automatic wire clamps. Fixing components matt nickel plated. High-grade galvanized steel wires. Toolless height adjustment and alignment of the Y wire.

L, T and X junctions are available for the production of U-LINE luminaire configurations. See Accessories.



### U-LINE-T



Model	Description	Dimens. [mm]			Prod. code.
		L	B	H	
U-LINE-T 121/39 NE	Standard channel 21W, 1-length	886	69	57	0528083AF
U-LINE-T 128/54 NE	Standard channel 28W, 1-length	1186	69	57	0528055AF
U-LINE-T 135/49/80 NE	Standard channel 35W, 1-length	1486	69	57	0528056AF
U-LINE-T 2X121/39 NE	Standard channel 21W, 2-length	1772	69	57	0528096AF
U-LINE-T 2X128/54 NE	Standard channel 28W, 2-length	2372	69	57	0528059AF
U-LINE-T 2X135/49/80 NE	Standard channel 35W, 2-length	2972	69	57	0528060AF
U-LINE-T 3X121/39 NE	Standard channel 21W, 3-length	2658	69	57	0528097AF
U-LINE-T 3X128/54 NE	Standard channel 28W, 3-length	3558	69	57	0528063AF
U-LINE-T 3X135/49/80 NE	Standard channel 35W, 3-length	4458	69	57	0528064AF
U-LINE-T-L1500 NE	Standard channel, length 1.5m	1500	69	57	0528072AF
U-LINE-T-L500 NE	Standard channel, length 0.5m	500	69	57	0528071AF

## U-LINE-TBZH, channel as basic profile for indirect luminaire with cylinder holder

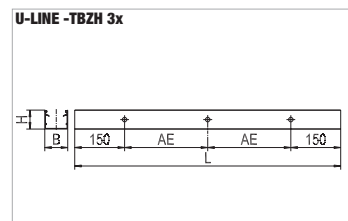
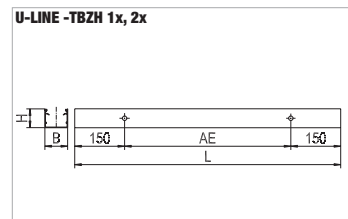
**Design:** Channel as basic profile for indirect luminaire constructed of aluminium U-shaped cross-section extrusion. Natural anodised surface finish (-NE). The channels are available for wattages 21/39 Watt, 28/54 Watt and 35/49/80 Watt and are each available in a 1, 2, or 3-length design. Pendant fixing by means of a permanently positioned lateral cylinder holder. Prepared to accommodate the gear tray and accessories of the U-LINE system.

For the start of a continuous luminaire run, one basic profile U-LINE-TBZH 1 is required per run. The run is extended using extension profile U-LINE TVZH.

**Mounting:** Y-shaped wire pendant mounting (accessory ZSPT2Z 295 ZH), permanently positioned cylinder holder fixed laterally at the profile. Ceiling fixture and automatic wire clamp. Fixing components matt nickel plated. High-grade galvanized steel wire. Toolless height adjustment and alignment of the Y-shaped wire.

Two kits are required for mounting the 1-length and 2-length U-LINE-TBZH channel versions, and three kits for the 3-length version. T16: When mounting as a direct luminaire, connection takes place at the face end through end caps EDKE / EDDKE.

L, T and X junctions are available for creating continuous U-LINE lighting system configurations (see accessories).



### U-LINE-TBZH



Model	Description	Dimens. [mm]				Prod. code.
		L	B	H	AE	
U-LINE-TBZH 121/39 NE	Basic channel for cylinder holder 21W, 1-length	886	69	57	586	0528081AF
U-LINE-TBZH 128/54 NE	Basic channel for cylinder holder 28W, 1-length	1186	69	57	886	0528057AF
U-LINE-TBZH 135/49/80 NE	Basic channel for cylinder holder 35W, 1-length	1486	69	57	1186	0528058AF
U-LINE-TBZH 2X121/39 NE	Basic channel for cylinder holder 21W, 2-length	1772	69	57	1472	0528101AF
U-LINE-TBZH 2X128/54 NE	Basic channel for cylinder holder 28W, 2-length	2372	69	57	2072	0528061AF
U-LINE-TBZH 2X135/49/80 NE	Basic channel for cylinder holder 35W, 2-length	2972	69	57	2672	0528062AF
U-LINE-TBZH 3X121/39 NE	Basic channel for cylinder holder 21W, 3-length	2658	69	57	1179	0528102AF
U-LINE-TBZH 3X128/54 NE	Basic channel for cylinder holder 28W, 3-length	3558	69	57	1629	0528065AF
U-LINE-TBZH 3X135/49/80 NE	Basic channel for cylinder holder 35W, 3-length	4458	69	57	2079	0528066AF



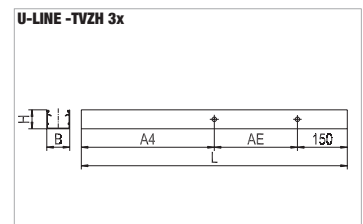
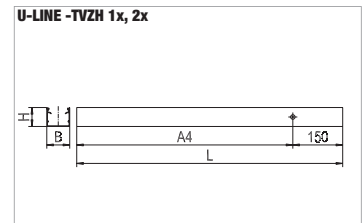
### U-LINE-TVZH, channel extension profile for indirect and direct luminaire with cylinder holder

**Design:** Channel extension profile for indirect or direct luminaire constructed of aluminium U-shaped cross-section extrusion, natural anodised surface finish (-NE). The channels are available for 21/39, 28/54 and 35/49/80 wattages and are each available in a 1, 2, or 3-length design. Pendant fixing by means of a permanently positioned lateral cylinder holder. Prepared to accommodate the luminaire reflector and accessories of the U-LINE system. For the start of the continuous luminaire run, one basic profile U-LINE-TBZH 1 is required per run. The run is extended using extension profile U-Line TVZH.

**Mounting:** Y-shaped wire pendant mounting (ZSPT2Z 295 ZH), permanently positioned cylinder holder fixed laterally at the profile. Ceiling fixture and automatic wire clamp. Fixing components matt nickel plated. High-grade galvanized steel wire. Toolless height adjustment and alignment of the Y-shaped wire.

One kit is required for mounting the 1-length and 2-length U-LINE-TBZH channel versions, and two fixing kits for the 3-length version.

L, T and X junctions are available for creating continuous U-LINE lighting system configurations (see accessories)



#### U-LINE-TVZH



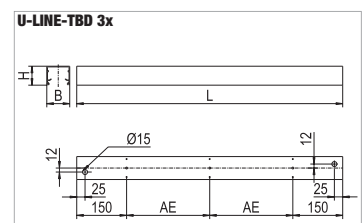
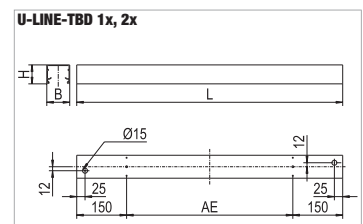
Model	Description	L	Dimens. [mm]				Prod. code.
			B	H	A4	AE	
U-LINE-TVZH 121/39 NE	Channel extension for cylinder holder 21W, 1-length	886	69	57	736	-	0528082AF
U-LINE-TVZH 128/54 NE	Channel extension for cylinder holder 28W 1-length	1186	69	57	1036	-	0528073AF
U-LINE-TVZH 135/49/80 NE	Channel extension for cylinder holder 35W, 1-length	1486	69	57	1336	-	0528074AF
U-LINE-TVZH 2X121/39 NE	Channel extension for cylinder holder 21W, 2-length	1772	69	57	1622	-	0528098AF
U-LINE-TVZH 2X128/54 NE	Channel extension for cylinder holder 28W, 2-length	2372	69	57	2222	-	0528077AF
U-LINE-TVZH 2X135/49/80 NE	Channel extension for cylinder holder 35W, 2-length	2972	69	57	2822	-	0528079AF
U-LINE-TVZH 3X121/39 NE	Channel extension for cylinder holder 21W, 3-length	2658	69	57	1329	1179	0528099AF
U-LINE-TVZH 3X128/54 NE	Channel extension for cylinder holder 25W, 3-length	3558	69	57	1779	1629	0528078AF
U-LINE-TVZH 3X135/49/80 NE	Channel extension for cylinder holder 35W, 3-length	4458	69	57	2229	2079	0528080AF

### U-LINE-TBD, basic channel profile for direct luminaire

**Design:** Basic channel profile for direct luminaire constructed of aluminium U-shaped cross-section extrusion, natural anodised surface finish (-NE). The channels are available for 21/39, 28/54 and 35/49/80 wattages and are each available in a 1, 2, or 3-length design. Pendant fixing using fixed retainers at the profile. Prepared to accommodate the luminaire reflector, the louvre and the accessories of the U-LINE system. For the start of the continuous luminaire run, one basic profile U-LINE-TBD 1 is required per run. The run is extended using extension profile U-Line TVD.

**Mounting:** Y-shaped wire pendant mounting (accessory ZSPT2Z 120), permanently positioned retainers in the profile. Ceiling fixture and automatic wire clamp. Fixing components matt nickel plated. High-grade galvanised steel wire. Toolless height adjustment and alignment of the Y-shaped wire. Two fixing kits each are required for fixing the 1-length and 2-length U-LINE-TBD channel version, and three fixing kits for the 3-length version. Direct ceiling mounting using fixing holes without the need for additional accessories.

L, T and X junctions are available for creating continuous U-LINE lighting system configurations (see accessories)



#### U-LINE-TBD



Model	Description	L	Dimens. [mm]				Prod. code.
			B	H	AE		
U-LINE-TBD 121/39 NE	Basic channel direct 21W, 1-length	886	69	57	586	0528103AF	
U-LINE-TBD 128/54 NE	Basic channel direct 28W, 1-length	1186	69	57	886	0528104AF	
U-LINE-TBD 135/49/80 NE	Basic channel direct 35W, 1-length	1486	69	57	1186	0528105AF	
U-LINE-TBD 2X121/39 NE	Basic channel direct 21W, 2-length	1772	69	57	1472	0528106AF	
U-LINE-TBD 2X128/54 NE	Basic channel direct 28W, 2-length	2372	69	57	2072	0528107AF	
U-LINE-TBD 2X135/49/80 NE	Basic channel, direct 28W, 2-length	2972	69	57	2672	0528108AF	
U-LINE-TBD 3X121/39 NE	Basic channel direct 21W, 3-length	2658	69	57	1179	0528109AF	
U-LINE-TBD 3X128/54 NE	Basic channel direct 28W, 3-length	3558	69	57	1629	0528110AF	
U-LINE-TBD 3X135/49/80 NE	Basic channel direct 35W, 3-length	4458	69	57	2079	0528111AF	

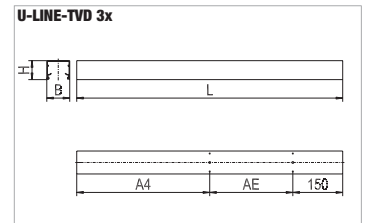
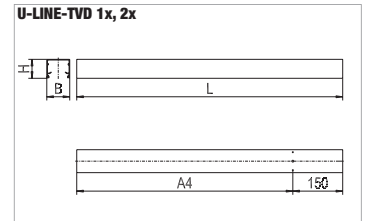
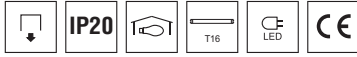
## U-LINE channel profiles

### U-LINE-TVD, Channel extension profile for direct luminaire

**Design:** Channel extension profile for direct luminaire constructed of aluminium U-shaped cross-section extrusion, natural anodised surface finish (-NE). The channels are available for 21/39, 28/54 and 35/49/80 wattages and are each available in a 1, 2, or 3-length design. Pendant fixing using fixed retainers at the top of the profile. Prepared to accommodate the gear tray, the louvre and the accessories of the U-LINE system. For the start of the continuous luminaire run, one basic profile U-LINE-TBD 1 is required per run. The run is extended using extension profile U-Line TVD.

**Mounting:** Y-shaped wire pendant mounting (accessory ZSPT2Z 120), permanently positioned retainers in the top of the profile. Ceiling fixture and automatic wire clamp. Fixing components matt nickel plated. High-grade galvanised steel wire. Toolless height adjustment and alignment of the Y-shaped wire. One fixing kit is required for fixing the 1-length and 2-length U-LINE-TVD and two fixing kits for the 3-length version. Direct ceiling mounting using fixing holes without the need for additional accessories.

L, T and X junctions are available for creating continuous U-LINE lighting system configurations (see accessories)



#### U-LINE-TVD



Model	Description	L	Dimens. [mm]			Prod. code.	
			B	H	AE		
U-LINE-TVD 121/39 NE	Channel extension direct 21W, 1-length	886	69	57	736	0528121AF	
U-LINE-TVD 128/54 NE	Channel extension direct 28W, 1-length	1186	69	57	1036	0528122AF	
U-LINE-TVD 135/49/80 NE	Channel extension direct 35W, 1-length	1486	69	57	1336	0528123AF	
U-LINE-TVD 2X121/39 NE	Channel extension direct 21W, 2-length	1772	69	57	1622	0528124AF	
U-LINE-TVD 2X128/54 AF	Channel extension direct 28W, 2-length	2372	69	57	2222	0528125AF	
U-LINE-TVD 2X135/49/80 NE	Channel extension direct 35W, 2-length	2972	69	57	2822	0528126AF	
U-LINE-TVD 3X121/39 NE	Channel extension direct 21W, 3-length	2658	69	57	1329	1179	0528127AF
U-LINE-TVD 3X128/54 NE	Channel extension direct 28W, 3-length	3558	69	57	1779	1629	0528128AF
U-LINE-TVD 3X135/49/80 NE	Channel extension direct 35W, 3-length	4458	69	57	2229	2079	0528129AF

### U-LINE-TBZHD, basic channel profile for direct luminaire with cylinder holder

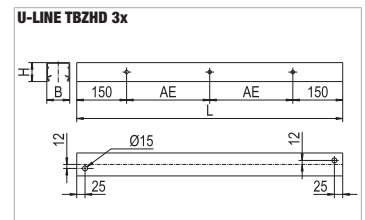
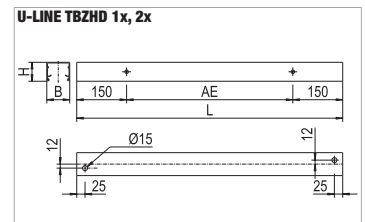
**Design:** Basic channel profile for direct luminaire constructed of extruded aluminium U-shaped cross-section extrusion, natural anodised surface finish (-NE). The channels are available for 21/39, 28/54 and 35/49/80 wattages and are each available in a 1, 2, or 3-length design. Pendant fixing by means of a permanently positioned lateral cylinder holder. Prepared to accommodate the gear tray, the louvre and the accessories of the U-LINE system.

For the start of the continuous luminaire run, one U-LINE-TBZHD is required per run. The run is extended using extension profile U-Line-TVZH.

**Mounting:** Y-shaped wire pendant mounting (accessory ZSPT2Z 295 ZH), permanently positioned cylinder holder fixed laterally at the profile. Ceiling fixture and automatic wire clamp. Fixing components matt nickel plated. High-grade galvanized steel wire. Toolless height adjustment and alignment of the Y-shaped wire.

Two kits are required for mounting the 1-length and 2-length U-LINE-TBZHD channel version, and three kits for the 3-length version.

L, T and X junctions are available for creating continuous U-LINE lighting system configurations (see accessories)



#### U-LINE-TBZHD



Model	Description	L	Dimens. [mm]			Prod. code.
			B	H	AE	
U-LINE-TBZHD 121/39 NE	Basic channel for cylinder holder, direct 21W, 1-length	886	69	57	586	0528112AF
U-LINE-TBZHD 128/54 NE	Basic channel for cylinder holder, direct 28W, 1-length	1186	69	57	886	0528113AF
U-LINE-TBZHD 135/49/80 NE	Basic channel for cylinder holder, direct 35W, 1-length	1486	69	57	1186	0528114AF
U-LINE-TBZHD 2X121/39 NE	Basic channel for cylinder holder, direct 21W, 2-length	1772	69	57	1472	0528115AF
U-LINE-TBZHD 2X128/54 NE	Basic channel for cylinder holder, direct 28W, 2-length	2372	69	57	2072	0528116AF
U-LINE-TBZHD 2X135/49/80 NE	Basic channel for cylinder holder, direct 35W, 2-length	2972	69	57	2672	0528117AF
U-LINE-TBZHD 3X121/39 NE	Basic channel for cylinder holder, direct 21W, 3-length	2658	69	57	1179	0528118AF
U-LINE-TBZHD 3X128/54 NE	Basic channel for cylinder holder, direct 28W, 3-length	3558	69	57	1629	0528119AF
U-LINE-TBZHD 3X135/49/80 NE	Basic channel for cylinder holder, direct 35W, 3-length	4458	69	57	2079	0528120AF



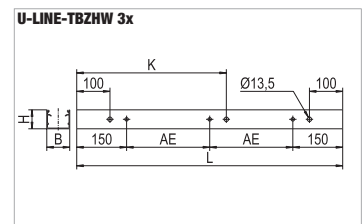
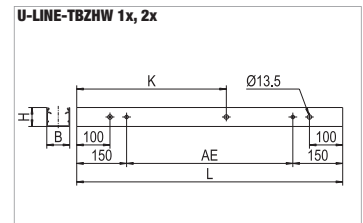
## U-LINE-TBZHW, basic channel profile for direct or indirect luminaire, wall fixture with cylinder holder

**Design:** Basic channel for direct or indirect luminaire constructed of aluminium U-shaped cross-section extrusion, natural anodised surface finish (-NE). The channels are available for 21/39, 28/54 and 35/49/80 wattages and are each available in a 1, 2 or 3-length design. Wall fixing by means of a permanently positioned lateral cylinder holder. Prepared to accommodate the gear tray, the louvre and the accessories of the U-LINE system. For the start of the continuous luminaire run, one basic profile U-LINE-TBZHW 1 is required per run. The run is extended using extension profile U-Line TVZH.

**Mounting:** Wall mounting (accessory ZSPK-ZWH or Z-ZWH), permanently positioned cylinder holders fastened laterally at the profile. Ceiling fixture, automatic wire clamp and high-grade galvanized steel wire with ZSPK-ZWH. Fixing components matt nickel plated

Two fixing kits are required for fixing each 1-length and 2-length U-LINE-TBZHW channel and three fixing kits for the 3-length version.

L, T and X junctions are available for creating continuous U-LINE lighting system configurations (see accessories)



### U-LINE-TBZHW



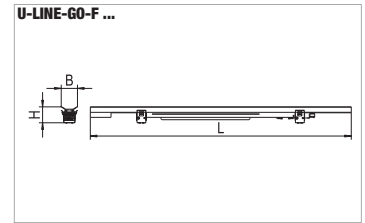
Model	Description	L	Dimens. [mm]			Prod. code.
			B	H	AE	
U-LINE-TBZHW 121/39 NE	Basic channel for cylinder holder wall, 21W, 1-length	886	69	57	586	0528130AF
U-LINE-TBZHW 128/54 NE	Basic channel for cylinder holder wall, 28W, 1-length	1186	69	57	886	0528131AF
U-LINE-TBZHW 135/49/80 NE	Basic channel for cylinder holder wall, 35W, 1-length	1486	69	57	1186	0528132AF
U-LINE-TBZHW 2X121/39 NE	Basic channel for cylinder holder wall, 21W, 2-length	1772	69	57	1472	0528133AF
U-LINE-TBZHW 2X128/54 NE	Basic channel for cylinder holder wall, 28W, 2-length	2372	69	57	2072	0528134AF
U-LINE-TBZHW 2X135/49/80 NE	Basic channel for cylinder holder wall, 35W, 2-length	2972	69	57	2672	0528135AF
U-LINE-TBZHW 3X121/39 NE	Basic channel for cylinder holder wall, 21W, 3-length	2658	69	57	1179	0528136AF
U-LINE-TBZHW 3X128/54 NE	Basic channel for cylinder holder wall, 28W, 3-length	3558	69	57	1679	0528137AF
U-LINE-TBZHW 3X135/49/80 NE	Basic channel for cylinder holder wall 35W, 3-length	4458	69	57	2079	0528138AF



# U-LINE gear trays

## U-LINE-GO-F, gear tray for indirect luminaire, without additional cover

**Design:** Gear tray U-LINE-GO-F... for direct and indirect beam luminaire. Finishes flush with the channel edge. Made of extruded aluminium, silver powder coated similar to RAL9006 with RIDI LED modules with longitudinal optics in extruded, UV-stabilised PMMA. RIDI LED linear modules fitted with mid-power LEDs for maximum efficiency. LED modules in conformity with SELV for optimum thermal dissipation pressed over their full surface against the aluminium profile. Gear trays can be mounted at any optional position in the trunking. Spring clips at the gear tray for fastening in the channel. The LED modules are fitted with LEDs right up to the gear tray ends, eliminating any visible shadows when mounting in continuous rows. The luminous densities of the different lengths are almost identical, allowing the lengths to be combined at will when arranging the continuous luminaire run. U-LINE-GO-F...ND... with 5-core through wiring for non-dimmable luminaires. U-LINE-GO-F...DA... with 7-core through wiring for DALI dimmable luminaires.



Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Through wiring 7x1.5mm<sup>2</sup> with axial plug and socket.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Through wiring 5x1.5mm<sup>2</sup> with axial plug and socket.

**Mounting:** Toolless mounting in the aluminium profile using spring clips, independently earthed for electrical safety.



acc. to DIN EN 60598/VDE 0711



### U-LINE-GO-F...A...

Linear optics with asymmetrical light distribution made of clear UV-stabilised PMMA, integrated flush into the gear tray.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
						L	B	H		
U-LINE-GO-F139/xxSI-300A840	1xLED-M 20 W	2235	24	93	840	883	55	43	0528249SI	0538249SI
U-LINE-GO-F149/xxSI-500A840	1xLED-M 33 W	3725	40	93	840	1483	55	43	0528251SI	0538251SI
U-LINE-GO-F154/xxSI-400A840	1xLED-M 27 W	2980	32	93	840	1183	55	43	0527990SI	0537990SI
U-LINE-GO-F180/xxSI-680A840	1xLED-M 48 W	5066	51	99	840	1483	55	43	0528254SI	0538254SI



### U-LINE-GO-F...B...

Linear optics with wide beam light distribution made of clear UV-stabilised PMMA, integrated flush into the gear tray.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
						L	B	H		
U-LINE-GO-F139/xxSI-300B840	1xLED-M 20 W	2439	24	101	840	883	55	42	0527985SI	0537985SI
U-LINE-GO-F149/xxSI-500B840	1xLED-M 33 W	4065	40	101	840	1483	55	42	0527986SI	0537986SI
U-LINE-GO-F154/xxSI-400B840	1xLED-M 27 W	3252	32	101	840	1183	55	42	0527983SI	0537983SI
U-LINE-GO-F180/xxSI-680B840	1xLED-M 48 W	5528	51	108	840	1483	55	42	0527988SI	0537988SI



### U-LINE-GO-F...T...

Linear optics with narrow beam light distribution made of clear UV-stabilised PMMA, integrated flush into the gear tray.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
						L	B	H		
U-LINE-GO-F139/xxSI-300T840	1xLED-M 20 W	2256	24	94	840	883	55	43	0528243SI	0538243SI
U-LINE-GO-F149/xxSI-500T840	1xLED-M 33 W	3760	40	94	840	1483	55	43	0528244SI	0538244SI
U-LINE-GO-F154/xxSI-400T840	1xLED-M 27 W	3008	32	94	840	1183	55	43	0528241SI	0538241SI
U-LINE-GO-F180/xxSI-680T840	1xLED-M 48 W	5114	51	100	840	1483	55	43	0528246SI	0538246SI

## U-LINE-G-F, gear tray for direct luminaire, for covers ZAO or ZMPS

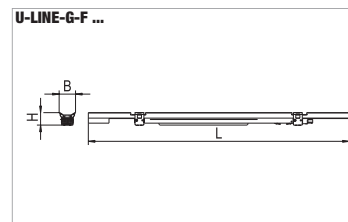
**Design:** Gear tray U-LINE-G-F... for direct and indirect beam luminaire. Set back from the channel edge for mounting ZAO or ZMPS covers. Made of extruded aluminium, white powder coated similar to RAL9016 with RIDI LED modules with longitudinal optics in extruded, UV-stabilised PMMA. Wide-beam light distribution for homogenous illumination of the cover. RIDI LED linear modules fitted with mid-power LEDs for maximum efficiency. LED modules in conformity with SELV for optimum thermal dissipation pressed over their full surface against the aluminium profile. Gear trays can be mounted at any optional position in the trunking. Spring clips at the gear tray for fastening in the channel. The LED modules are fitted with LEDs right up to the gear tray ends, eliminating any visible shadows when mounting in continuous rows. The luminous densities of the different lengths are almost identical, allowing the lengths to be combined at will when arranging the continuous luminaire run. U-LINE-G-F...ND... with 5-core through wiring for non-dimmable luminaires. U-LINE-G-F...DA... with 7-core through wiring for DALI dimmable luminaires.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Through wiring 7x1.5mm<sup>2</sup> with axial plug and socket.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Through wiring 5x1.5mm<sup>2</sup> with axial plug and socket.

**Mounting:** Toolless mounting in the aluminium profile using spring clips, independently earthed for electrical safety..



**U-LINE-G-F...B...**

Linear optics with wide beam light distribution made of clear UV-stabilised PMMA, integrated flush into the gear tray.

Model	Lamps	Luminous colour	Dimens. (mm)			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
			L	B	H		
U-LINE-G-F139/xxWS-300B840	1xLED-M 20 W	840	883	55	43	0527977	0537977
U-LINE-G-F149/xxWS-500B840	1xLED-M 33 W	840	1483	55	43	0527973	0537973
U-LINE-G-F154/xxWS-400B840	1xLED-M 27 W	840	1183	55	43	0527975	0537975
U-LINE-G-F180/xxWS-680B840	1xLED-M 48 W	840	1483	55	43	0527980	0537980

## U-LINE-GTR-R, gear tray for direct luminaire with louvre SRM, for RIDI-TUBE lamp

**Design:** Gear tray U-LINE-GTR.. for direct luminaire with louvre (accessory U-LINE-SRM). Gear tray in white coated steel, held in the aluminium profile by spring clips. The gear tray accommodates all electrical components. For RIDI-TUBE lamps (order separately), recommended cover matt.

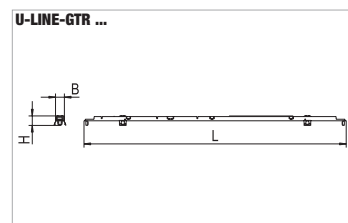
U-LINE-GTR-R...ND with 5-core through wiring for non-dimmable luminaires.

U-LINE-GTR-R...DA with 7-core through wiring for DALI dimmable luminaires.

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal.

Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

**Mounting:** Toolless mounting in the aluminium profile using spring clips, independently earthed for electrical safety.



Model	Lamps max.	R-TUBE Category	Dimens. (mm)			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
			L	B	H		
U-LINE-GTR-R1X085/25xx	1xR-TUBE 25 W	C	883	40	42	0550045	0560045
U-LINE-GTR-R1X115/30xx	1xR-TUBE 30 W	E, F	1183	51	44	0557969	0567969
U-LINE-GTR-R1X145/35xx	1xR-TUBE 35 W	H, I	1483	51	44	0557968	0567968



## U-LINE covers / reflectors

### Cover U-LINE-Z..

**Design:** Luminaire cover for clipping into the aluminium channel U-LINE-T ...



#### U-LINE-ZAB

Dummy luminaire cover in natural anodised surface finish aluminium extrusion.

The channel covers are for 21/39, 28/54 and 35/49/80 wattages and are each available in a 1, 2, or 3-length design.

Model	Description	L	Prod. code.
U-LINE-ZAB 139 NE	Luminaire cover natural anodised aluminium 39W, 1-length	886	0204338AF
U-LINE-ZAB 1500 NE	Luminaire cover natural anodised aluminium, length 1500mm	1500	0204326AF
U-LINE-ZAB 154 NE	Luminaire cover natural anodised aluminium 54W, 1-length	1186	0204319AF
U-LINE-ZAB 180 NE	Luminaire cover natural anodised aluminium 80W, 1-length	1486	0204320AF
U-LINE-ZAB 2X139 NE	Luminaire cover natural anodised aluminium 39W, 2-length	1772	0204339AF
U-LINE-ZAB 2X154 NE	Luminaire cover natural anodised aluminium 54W, 2-length	2372	0204321AF
U-LINE-ZAB 2X180 NE	Luminaire cover natural anodised aluminium 80W, 2-length	2972	0204322AF
U-LINE-ZAB 3X139 NE	Luminaire cover natural anodised aluminium 39W, 3-length	2657	0204340AF
U-LINE-ZAB 3X154 NE	Luminaire cover natural anodised aluminium 54W, 3-length	3557	0204323AF
U-LINE-ZAB 3X180 NE	Luminaire cover natural anodised aluminium 80W, 3-length	4457	0204324AF
U-LINE-ZAB 500 NE	Luminaire cover natural anodised aluminium, length 500mm	500	0204325AF



#### U-LINE-ZAO

Dummy luminaire cover in opal UV-resistant PMMA. (T16 54 and 80 watts only in conjunction with U-LINE-GR or U-LINE-GTRI). The channel covers are for 21/39, 28 and 35/49 wattages and are each available in a 1, 2, or 3-length design.

Model	Description	L	Prod. code.
U-LINE-ZAO 128	Luminaire cover opal 28W, 1-length, PMMA	1181	0204313
U-LINE-ZAO 139	Luminaire cover opal 39W, 1-length, PMMA	881	0204335
U-LINE-ZAO 149	Luminaire cover opal 49W, 1-length, PMMA	1480	0204314
U-LINE-ZAO 2X128	Luminaire cover opal 28W, 2-length, PMMA	2365	0204315
U-LINE-ZAO 2X139	Luminaire cover opal 39W, 2-length, PMMA	1767	0204336
U-LINE-ZAO 2X149	Luminaire cover opal 49W, 2-length, PMMA	2964	0204316
U-LINE-ZAO 3x128	Luminaire cover opal 28W, 3-length, PMMA	3550	0204317
U-LINE-ZAO 3X139	Luminaire cover opal 39W, 3-length, PMMA	2651	0204337
U-LINE-ZAO 3x149	Luminaire cover opal 49W, 3-length, PMMA	4448	0204318



#### U-LINE-ZMPS

Transparent co-extruded acrylic cover in clear UV-stabilised PMMA, with external microprism structure. Internal longitudinal fins for positioning made of impact-resistant UV-stabilised PMMA with opal light-impermeable coloration to prevent unwanted light reflection. (T16 54 and 80 watts only in conjunction with U-LINE-GTR or U-LINE-GTRI).

Model	Description	Prod. code.
U-LINE-ZMPS 128	Luminaire cover MPS 28W, 1-length, PMMA	0204924
U-LINE-ZMPS 139	Luminaire cover MPS 39W, 1-length, PMMA	0204923
U-LINE-ZMPS 149	Luminaire cover MPS 49W, 1-length, PMMA	0204925
U-LINE-ZMPS 2X128	Luminaire cover MPS 28W, 2-length, PMMA	0204927
U-LINE-ZMPS 2X139	Luminaire cover MPS 39W, 2-length, PMMA	0204926
U-LINE-ZMPS 2X149	Luminaire cover MPS 49W, 2-length, PMMA	0204928
U-LINE-ZMPS 3X128	Luminaire cover MPS 28W, 3-length, PMMA	0204930
U-LINE-ZMPS 3X139	Luminaire cover MPS 39W, 3-length, PMMA	0204929
U-LINE-ZMPS 3X149	Luminaire cover MPS 49W, 3-length, PMMA	0204931

### Parabolic mirror louvre U-LINE-SRM-R

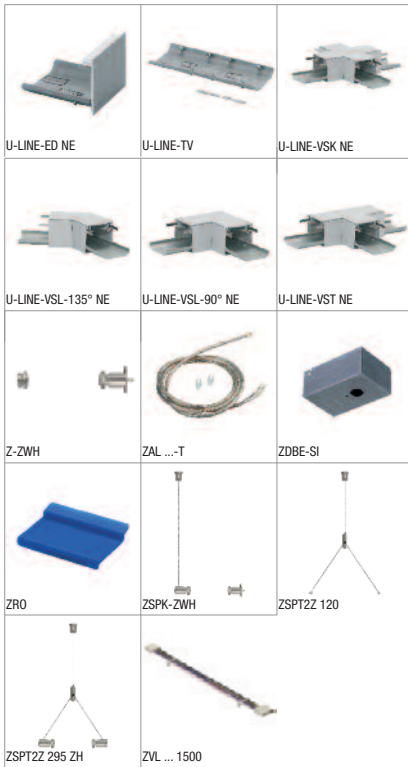
**Design:** Parabolic mirror louvre for clipping into channel U-LINE-TBD and -TVD / U-LINE-TBZHD and -TVZH as well as U-LINE-TBZHW. Can be used in combination with gear tray U-LINE-GTR-R. One parabolic louvre is required per gear tray.



#### U-LINE-SRM-R

Parabolic mirror louvre made of silk matt super-purity anodised aluminium with silver coating

Model	Description	L	Prod. code.
U-LINE-SRM-R1X085	Parabolic mirror louvre matt anodised R-TUBE 085	885	0208842
U-LINE-SRM-R1X115	Parabolic mirror louvre matt anodised R-TUBE 115	1185	0208516
U-LINE-SRM-R1X145	Parabolic mirror louvre matt anodised R-TUBE 145	1485	0208518



## Accessories for U-LINE

Model	Description	Prod. code
U-LINE-EBS	Recessed mounting fixing kit for U-LINE, 1 pc.	0206016
U-LINE-ED NE	End cap U-Line for ZAO, anodised, 1 pc	0208077AF
U-LINE-ED-GO-NAL NE	End cap mains conn., use with U-LINE-GO-F indirect, 1 pc.	0208904AF
U-LINE-EDD-R NE	End cap U-LINE direct for accessory SR. natural anodised, 1 pc.	0208519AF
U-LINE-TV	Channel connector for U-Line, 1 pc	0208080
U-LINE-VSK NE	T-sh. channel connector, thr.w., 7x1.5mm <sup>2</sup> , 1 pc	0208086AF
U-LINE-VSL-135° NE	L-sh. channel connector, 135°, thr.w., 7x1.5mm <sup>2</sup> , 1 pc	0208094AF
U-LINE-VSL-90° NE	L-sh. channel connector, 90°, thr.w., 7x1.5mm <sup>2</sup> , 1 pc	0208079AF
U-LINE-VSLDIL-90° NE	DI-L-sh. channel conn., left, thr.w., 7x1.5mm <sup>2</sup> , 1 pc	0208091AF
U-LINE-VSLDIR-90° NE	DI-L-sh. channel conn., rgt, thr.w., 7x1.5mm <sup>2</sup> , 1 pc	0208092AF
U-LINE-VST NE	T-sh. channel connector, thr.w., 7x1.5mm <sup>2</sup> , 1 pc	0208085AF
Z-ZWH	Wall fixing kit, cylindrical, U-LINE, 1 pc	0204334
ZAL 3X1,5/1,5M-T	Clear mains cable, 3x1.5mm <sup>2</sup> , 1.5 metre	0207977
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5X1,5/1,5M-T	Clear mains cable, 5x1.5mm <sup>2</sup> , 1.5 metre	0207978
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZDBE-SI	Rect. canopy silver, for Y wire pendant, ZUSP and UKNS	0204332SI
ZEL-NA-U-LINE	Mains connecting set 2 x socket, 1 x plug	0208982
ZKF 3X0,75/1,0M	Cable guide C-profile, for dia. 4-5mm, 1 metre, transparent	0207979
ZRO	Frame opener	0204003
ZSPK-ZWH	Wire pendant, ceiling fixing, ball, cyl. wall hldr 1.5m, 1pc	0204333
ZSPT2Z 120	'Y' wire pendant with ceiling fixture, cyl. 1.5 m, 1 pc	0203582
ZSPT2Z-295 ZH	'Y' wire pendant with ceiling fixture, cyl. holder, 1.5m, 1pc	0204309
ZVL-7X1.5/1500	7-core connecting cable socket + plug, 1.5m	0204312
ZVL-7X1.5/500	7-core connecting cable socket + plug, 0.5m	0204311

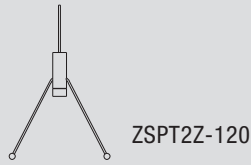
**Note:** One wire or tube pendant must be ordered per suspension point.



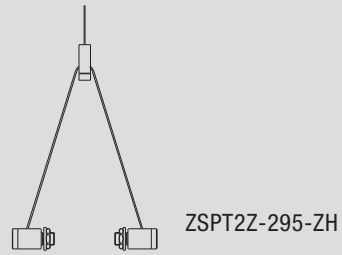


# H-LINE LED – Luminaire system with H-shaped cross section

## FIXING KITS

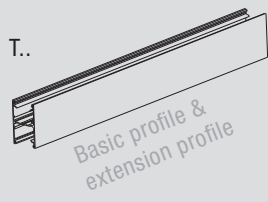


ZSPT2Z-120



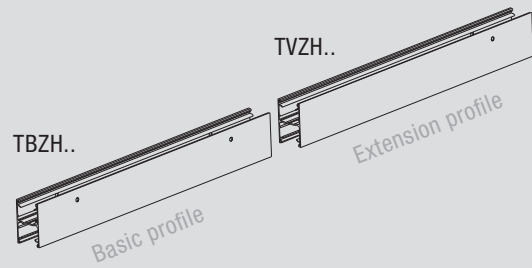
ZSPT2Z-295-ZH

## CHANNELS



T..

Basic profile & extension profile



TBZH..

Basic profile

TVZH..

Extension profile

## PROFILE CONNECTORS

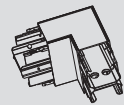
straight connector

TV



Connector for the creation of lighting constructs

VSL-90°



## GEAR TRAYS



GTR-R...



G-F...

## OPTICAL CONTROLS



SRM



ZAO

ZMPS

## END CAPS



EDD-R

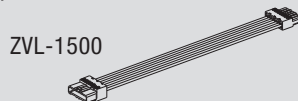


ED

## MAINS CONNECTORS CONNECTING CABLES



ZVL-500



ZVL-1500

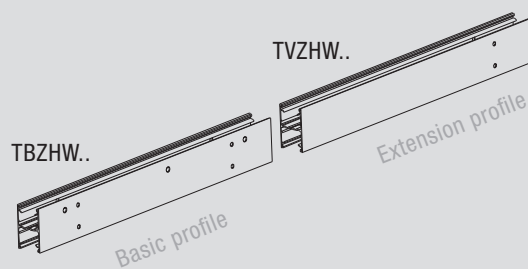
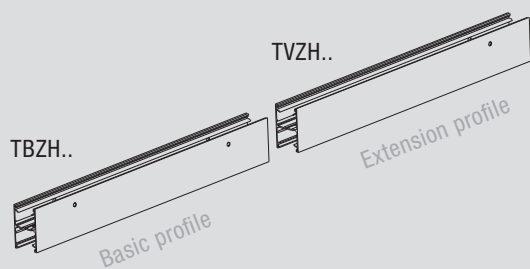
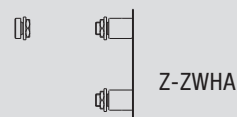
Connecting cables where gear trays are mounted at a distance



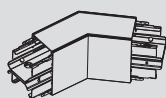
Wall fixture  
with ceiling suspension



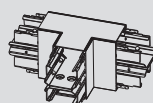
Wall fixing kit:



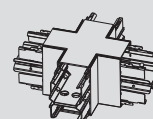
VSL-135°



VST



VSK



GO-F...

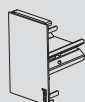


DUMMY LUMINAIRE COVER

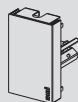
ZAB



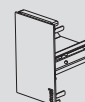
ED-GO



ED-GO-NAL



ED



ZEL-NA-U-LINE



Mains connector,  
the electrical connector is located in the gear tray

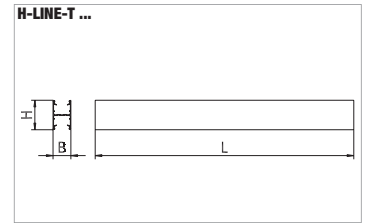
# H-LINE channel profiles

## H-LINE-T, channel profile

**Design:** Channel constructed of aluminium H-shaped cross-section extrusion, natural anodised surface finish (-NE). The channels are available for 21/39, 28/54 and 35/49/80 wattages and are each available in a 1, 2 or 3-length design. Oblong groove in sectional aluminium to accommodate lengthways adjustable wire pendants. Upper and lower area prepared to accommodate the gear tray and accessories of the U-LINE system.

**Mounting:** Y-shaped wire pendant mounting, positioned on the face side in the oblong groove, permitting lengthways adjustment. Ceiling fixture and automatic wire clamps. Fixing components matt nickel plated. High-grade galvanized steel wires. Toolless height adjustment and alignment of the Y wire.

**Junction points:** L, T and X junctions are available for creating H-Line configurations (see accessories).



### H-LINE-T



Model	Description	Dimens. [mm]			Prod. code.
		L	B	H	
H-LINE-T 121/39 NE	Standard channel 21W, 1-length	886	69	114	0508152AF
H-LINE-T 128/54 NE	Standard channel 28W, 1-length	1186	69	114	0508153AF
H-LINE-T 135/49/80 NE	Standard channel 35W, 1-length	1486	69	114	0508154AF
H-LINE-T 2X121/39 NE	Standard channel 21W, 2-length	1772	69	114	0508156AF
H-LINE-T 2X128/54 NE	Standard channel 28W, 2-length	2372	69	114	0508155AF
H-LINE-T 2X135/49/80 NE	Standard channel 35W, 2-length	2972	69	114	0508157AF
H-LINE-T 3X121/39 NE	Standard channel 21W, 3-length	2658	69	114	0508158AF
H-LINE-T 3X128/54 NE	Standard channel 28W, 3-length	3558	69	114	0508159AF
H-LINE-T 3X135/49/80 NE	Standard channel 35W, 3-length	4458	69	114	0508160AF
H-LINE-T-L1500 NE	Standard channel, length 1500mm	1500	69	114	0508179AF
H-LINE-T-L500 NE	Standard channel, length 500mm	500	69	114	0508180AF

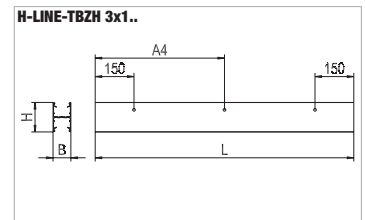
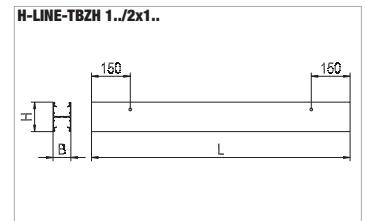
## H-LINE-TBZH, basic channel profile for cylinder holder

**Design:** Channel for basic luminaire constructed of aluminium H-shaped cross-section extrusion, natural anodised surface finish (-NE). The channels are available for 21/39, 28/54 and 35/49/80 wattages and are each available in a 1, 2 or 3-length design. Pendant fixture by means of permanently positioned lateral cylinder holders. Upper and lower area prepared to accommodate the gear tray and accessories of the U-LINE system.

1 H-LINE-TBZH basic profile is required per continuous luminaire for the start of an H-LINE continuous luminaire configuration. The configuration is extended using the extension profile H-LINE-TVZH.

**Mounting:** Y-shaped wire pendant mounting, fixed cylinder holder fastened horizontally at the profile. Ceiling fixture and automatic wire clamps. Fixing components matt nickel plated. High-grade galvanized steel wires. Toolless height adjustment and alignment of the Y wire.

**Junction points:** L, T and X junctions are available for creating H-Line configurations (see accessories).



### H-LINE-TBZH



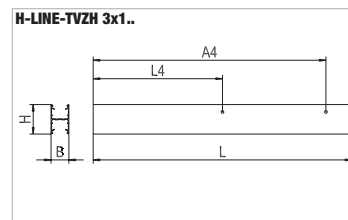
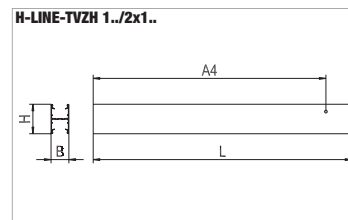
Model	Description	Dimens. [mm]				Prod. code.
		L	B	H	A4	
H-LINE-TBZH 121/39 NE	Basic channel for cylinder holder 21W, 1-length	886	69	114	-	0508161AF
H-LINE-TBZH 128/54 NE	Basic channel for cylinder holder 28W, 1-length	1186	69	114	-	0508162AF
H-LINE-TBZH 135/49/80 NE	Basic channel for cylinder holder 35W, 1-length	1486	69	114	-	0508163AF
H-LINE-TBZH 2X121/39 NE	Basic channel for cylinder holder 21W, 2-length	1772	69	114	-	0508164AF
H-LINE-TBZH 2X128/54 NE	Basic channel for cylinder holder 28W, 2-length	2372	69	114	-	0508165AF
H-LINE-TBZH 2X135/49/80 NE	Basic channel for cylinder holder 35W, 2-length	2972	69	114	-	0508166AF
H-LINE-TBZH 3X121/39 NE	Basic channel for cylinder holder 21W, 3-length	2658	69	114	1329	0508167AF
H-LINE-TBZH 3X128/54 NE	Basic channel for cylinder holder 28W, 3-length	3558	69	114	1779	0508168AF
H-LINE-TBZH 3X135/49/80 NE	Basic channel for cylinder holder 35W, 3-length	4458	69	114	2229	0508169AF

## H-LINE-TVZH, channel extension profile for cylinder holder

**Design:** Channel for extension luminaire constructed of aluminium H-shaped cross-section extrusion, natural anodised surface finish (-NE). The channels are available for 21/39, 28/54 and 35/49/80 wattages and are each available in a 1, 2 or 3-length design. Pendant fixture by means of permanently positioned lateral cylinder holders. Upper and lower area prepared to accommodate the gear tray and accessories of the U-LINE system. 1 H-LINE-TBZH basic profile is required per continuous luminaire for the start of an H-LINE continuous luminaire configuration. The configuration is extended using the extension profile H-LINE-TVZH.

**Mounting:** Y-shaped wire pendant mounting, fixed cylinder holder fastened horizontally at the profile. Ceiling fixture and automatic wire clamps. Fixing components matt nickel plated. High-grade galvanized steel wires. Toolless height adjustment and alignment of the Y wire.

**Junction points:** L, T and X junctions are available for creating H-Line configurations (see accessories).



### H-LINE-TVZH



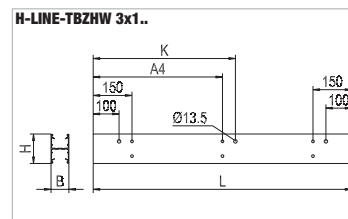
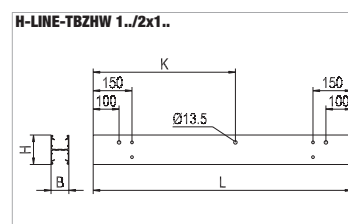
Model	Description	L	Dimens. [mm]				Prod. code.
			B	H	A4	L4	
H-LINE-TVZH 121/39 NE	Channel extension for cylinder holder 21W, 1-length	886	69	114	736	-	0508170AF
H-LINE-TVZH 128/54 NE	Channel extension for cylinder holder 28W, 1-length	1186	69	114	1036	-	0508171AF
H-LINE-TVZH 135/49/80 NE	Channel extension for cylinder holder 35W, 1-length	1486	69	114	1336	-	0508172AF
H-LINE-TVZH 2X121/39 NE	Channel extension for cylinder holder 21W, 2-length	1772	69	114	1622	-	0508173AF
H-LINE-TVZH 2X128/54 NE	Channel extension for cylinder holder 28W, 2-length	2372	69	114	2222	-	0508174AF
H-LINE-TVZH 2X135/49/80 NE	Channel extension for cylinder holder 35W, 2-length	2972	69	114	2822	-	0508175AF
H-LINE-TVZH 3X121/39 NE	Channel extension for cylinder holder 21W, 3-length	2658	69	114	2508	1329	0508176AF
H-LINE-TVZH 3X128/54 NE	Channel extension for cylinder holder 28W, 3-length	3558	69	114	3408	1779	0508177AF
H-LINE-TVZH 3X135/49/80 NE	Channel extension for cylinder holder 35W, 3-length	4458	69	114	4308	2229	0508178AF

## H-LINE-TBZH, basic channel profile for wall fixture with cylinder holder

**Design:** Channel for basic luminaire constructed of aluminium H-shaped cross-section extrusion, natural anodised surface finish (-NE). The channels are available for 21/39, 28/54 and 35/49/80 wattages and are each available in a 1, 2 or 3-length design. Pendant fixture by means of permanently positioned lateral cylinder holders. Upper and lower area prepared to accommodate the gear tray and accessories of the U-LINE system. 1 H-LINE-TBZH basic profile is required per continuous luminaire for the start of an H-LINE continuous luminaire configuration. The configuration is extended using the extension profile H-LINE-TVZH.

**Mounting:** Wall mounting (accessory Z-ZWHA), fixed cylinder holder fastened laterally at the profile. Fixing components matt nickel plated. Two fixing kits each are required for fixing the 1-length and 2-length U-LINE-TBZH channel version, and three fixing kits for the 3-length version.

**Junction points:** L, T and X junctions are available for creating H-Line configurations (see accessories).



### H-LINE-TBZH



Model	Description	L	Dimens. [mm]				Prod. code.
			B	H	A4	K	
H-LINE-TBZH 121/39 NE	Basic channel for cylinder holder wall 21W, 1-length	886	69	114	-	493	0508181AF
H-LINE-TBZH 128/54 NE	Basic channel for cylinder holder wall 28W, 1-length	1186	69	114	-	643	0508182AF
H-LINE-TBZH 135/49/80 NE	Basic channel for cylinder holder wall 35W, 1-length	1486	69	114	-	793	0508183AF
H-LINE-TBZH 2X121/39 NE	Basic channel for cylinder holder wall 21W, 2-length	1772	69	114	-	936	0508184AF
H-LINE-TBZH 2X128/54 NE	Basic channel for cylinder holder wall 28, 2-length	2372	69	114	-	1236	0508185AF
H-LINE-TBZH 2X135/49/80 NE	Basic channel for cylinder holder wall 35W, 2-length	2972	69	114	-	1536	0508186AF
H-LINE-TBZH 3X121/39 NE	Basic channel for cylinder holder wall 21W, 3-length	2658	69	114	1329	1379	0508187AF
H-LINE-TBZH 3X128/54 NE	Basic channel for cylinder holder wall 28W, 3-length	3558	69	114	1779	1829	0508188AF
H-LINE-TBZH 3X135/49/80 NE	Basic channel for cylinder holder wall 35W, 3-length	4458	69	114	2229	2279	0508189AF

## H-LINE channel profiles

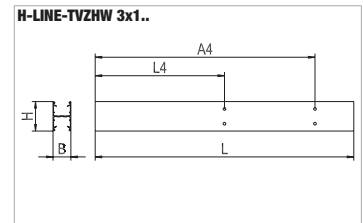
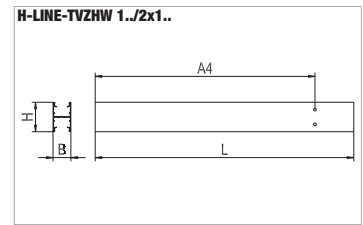
### H-LINE-TVZHW, channel extension profile for wall fixture with cylinder holder

**Design:** Channel for extension luminaire constructed of aluminium H-shaped cross-section extrusion, natural anodised surface finish (-NE). The channels are available for 21/39, 28/54 and 35/49/80 wattages and are each available in a 1, 2 or 3-length design. Pendant fixture by means of permanently positioned lateral cylinder holders. Upper and lower area prepared to accommodate the gear tray and accessories of the U-LINE system.

1 H-LINE-TBZHW basic profile is required per continuous luminaire for the start of an H-LINE continuous luminaire configuration. The configuration is extended using the extension profile H-LINE-TVZHW.

**Mounting:** Wall mounting (accessory Z-ZWHA), fixed cylinder holder fastened horizontally at the profile. Fixing components matt nickel plated. One fixing kit each is required for fixing the 1-length and 2-length H-LINE-TVZHW channel version, and two fixing kits for the 3-length version.

**Junction points:** L, T and X junctions are available for creating H-Line configurations (see accessories).



#### H-LINE-TVZHW

Model	Description	Dimens. [mm]				Prod. code.	
		L	B	H	A4		
H-LINE-TVZHW 121/39 NE	Channel extension for cyl. holder wall 21W, 1-length	886	69	114	736	-	0508190AF
H-LINE-TVZHW 128/54 NE	Channel extension for cyl. holder wall 28W, 1-length	1186	69	114	1036	-	0508191AF
H-LINE-TVZHW 135/49/80 NE	Channel extension for cyl. holder wall 35W, 1-length	1486	69	114	1336	-	0508192AF
H-LINE-TVZHW 2X121/39 NE	Channel extension for cyl. holder wall 21W, 2-length	1772	69	114	1622	-	0508193AF
H-LINE-TVZHW 2X128/54 NE	Channel extension for cyl. holder wall 28W, 2-length	2372	69	114	2222	-	0508194AF
H-LINE-TVZHW 2X135/49/80 NE	Channel extension for cyl. holder wall 35W, 2-length	2972	69	114	2822	-	0508195AF
H-LINE-TVZHW 3X121/39 NE	Channel extension for cyl. holder wall 21W, 3-length	2658	69	114	2508	1329	0508196AF
H-LINE-TVZHW 3X128/54 NE	Channel extension for cyl. holder wall 28W, 3-length	3558	69	114	3408	1779	0508197AF
H-LINE-TVZHW 3X135/49/80 NE	Channel extension for cyl. holder wall 35W, 3-length	4458	69	114	4308	2229	0508198AF



## U-LINE-GO-F, gear tray for indirect luminaire, without additional cover

**Design:** Gear tray U-LINE-GO-F... for direct and indirect beam luminaire. Finishes flush with the channel edge. Made of extruded aluminium, silver powder coated similar to RAL9006 with RIDI LED modules with longitudinal optics in extruded, UV-stabilised PMMA. RIDI LED linear modules fitted with mid-power LEDs for maximum efficiency. LED modules in conformity with SELV for optimum thermal dissipation pressed over their full surface against the aluminium profile. Gear trays can be mounted at any optional position in the trunking. Spring clips at the gear tray for fastening in the channel. The LED modules are fitted with LEDs right up to the gear tray ends, eliminating any visible shadows when mounting in continuous rows. The luminous densities of the different lengths are almost identical, allowing the lengths to be combined at will when arranging the continuous luminaire run.

U-LINE-GO-F...ND... with 5-core through wiring for non-dimmable luminaires.

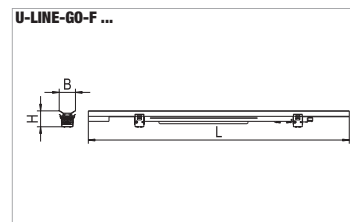
U-LINE-GO-F...DA... with 7-core through wiring for DALI dimmable luminaires.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Through wiring 7x1.5mm<sup>2</sup> with axial plug and socket.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Through wiring 5x1.5mm<sup>2</sup> with axial plug and socket.

**Mounting:** Toolless mounting in the aluminium profile using spring clips, independently earthed for electrical safety.



acc. to DIN EN 60598/VDE 0711



### U-LINE-GO-F...A...

Linear optics with asymmetrical light distribution made of clear UV-stabilised PMMA, integrated flush into the gear tray.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
						L	B	H		
U-LINE-GO-F139/xxSI-300A840	1xLED-M 20 W	2235	24	93	840	883	55	43	0528249SI	0538249SI
U-LINE-GO-F149/xxSI-500A840	1xLED-M 33 W	3725	40	93	840	1483	55	43	0528251SI	0538251SI
U-LINE-GO-F154/xxSI-400A840	1xLED-M 27 W	2980	32	93	840	1183	55	43	0527990SI	0537990SI
U-LINE-GO-F180/xxSI-680A840	1xLED-M 48 W	5066	51	99	840	1483	55	43	0528254SI	0538254SI



### U-LINE-GO-F...B...

Linear optics with wide beam light distribution made of clear UV-stabilised PMMA, integrated flush into the gear tray.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
						L	B	H		
U-LINE-GO-F139/xxSI-300B840	1xLED-M 20 W	2439	24	101	840	883	55	42	0527985SI	0537985SI
U-LINE-GO-F149/xxSI-500B840	1xLED-M 33 W	4065	40	101	840	1483	55	42	0527986SI	0537986SI
U-LINE-GO-F154/xxSI-400B840	1xLED-M 27 W	3252	32	101	840	1183	55	42	0527983SI	0537983SI
U-LINE-GO-F180/xxSI-680B840	1xLED-M 48 W	5528	51	108	840	1483	55	42	0527988SI	0537988SI



### U-LINE-GO-F...T...

Linear optics with narrow beam light distribution made of clear UV-stabilised PMMA, integrated flush into the gear tray.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
						L	B	H		
U-LINE-GO-F139/xxSI-300T840	1xLED-M 20 W	2256	24	94	840	883	55	43	0528243SI	0538243SI
U-LINE-GO-F149/xxSI-500T840	1xLED-M 33 W	3760	40	94	840	1483	55	43	0528244SI	0538244SI
U-LINE-GO-F154/xxSI-400T840	1xLED-M 27 W	3008	32	94	840	1183	55	43	0528241SI	0538241SI
U-LINE-GO-F180/xxSI-680T840	1xLED-M 48 W	5114	51	100	840	1483	55	43	0528246SI	0538246SI

## H-LINE gear trays

### U-LINE-G-F, gear tray for direct luminaire, for covers ZAO or ZMPS

**Design:** Gear tray U-LINE-G-F... for direct and indirect beam luminaire. Set back from the channel edge for mounting ZAO or ZMPS covers. Made of extruded aluminium, white powder coated similar to RAL9016 with RIDI LED modules with longitudinal optics in extruded, UV-stabilised PMMA. Wide-beam light distribution for homogenous illumination of the cover. RIDI LED linear modules fitted with mid-power LEDs for maximum efficiency. LED modules in conformity with SELV for optimum thermal dissipation pressed over their full surface against the aluminium profile. Gear trays can be mounted at any optional position in the trunking. Spring clips at the gear tray for fastening in the channel. The LED modules are fitted with LEDs right up to the gear tray ends, eliminating any visible shadows when mounting in continuous rows. The luminous densities of the different lengths are almost identical, allowing the lengths to be combined at will when arranging the continuous luminaire run. U-LINE-G-F...ND... with 5-core through wiring for non-dimmable luminaires. U-LINE-G-F...DA... with 7-core through wiring for DALI dimmable luminaires.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

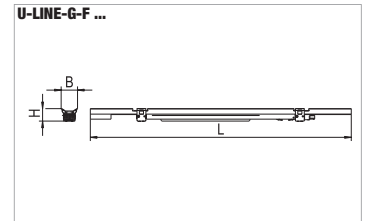
#### Electrical versions:

- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Through wiring 7x1.5mm<sup>2</sup> with axial plug and socket.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Through wiring 5x1.5mm<sup>2</sup> with axial plug and socket.

**Mounting:** Toolless mounting in the aluminium profile using spring clips, independently earthed for electrical safety..



acc. to DIN EN 60598/VDE 0711



#### U-LINE-G-F...B...

Linear optics with wide beam light distribution made of clear UV-stabilised PMMA, integrated flush into the gear tray.

Model	Lamps	Luminous colour	Dimens. (mm)			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
			L	B	H		
U-LINE-G-F139/xxWS-300B840	1xLED-M 20 W	840	883	55	43	0527977	0537977
U-LINE-G-F149/xxWS-500B840	1xLED-M 33 W	840	1483	55	43	0527973	0537973
U-LINE-G-F154/xxWS-400B840	1xLED-M 27 W	840	1183	55	43	0527975	0537975
U-LINE-G-F180/xxWS-680B840	1xLED-M 48 W	840	1483	55	43	0527980	0537980

### U-LINE-GTR-R, gear tray for direct luminaire with louvre SRM, for RIDI-TUBE lamp

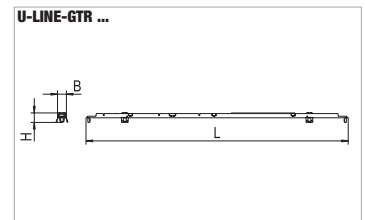
**Design:** Gear tray U-LINE-GTR.. for direct luminaire with louvre (accessory U-LINE-SRM). Gear tray in white coated steel, held in the aluminium profile by spring clips. The gear tray accommodates all electrical components. For RIDI-TUBE lamps (order separately), recommended cover matt. U-LINE-GTR-R...ND with 5-core through wiring for non-dimmable luminaires. U-LINE-GTR-R...DA with 7-core through wiring for DALI dimmable luminaires.

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

**Mounting:** Toolless mounting in the aluminium profile using spring clips, independently earthed for electrical safety.



acc. to DIN EN 60598/VDE 0711



Model	Lamps max.	R-TUBE Category	Dimens. (mm)			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
			L	B	H		
U-LINE-GTR-R1X085/25xx	1xR-TUBE 25 W	C	883	40	42	0550045	0560045
U-LINE-GTR-R1X115/30xx	1xR-TUBE 30 W	E, F	1183	51	44	0557969	0567969
U-LINE-GTR-R1X145/35xx	1xR-TUBE 35 W	H, I	1483	51	44	0557968	0567968

## Cover U-LINE-Z..

**Design:** Luminaire cover for clipping into the aluminium channel U-LINE-T ...



### U-LINE-ZAB

Dummy luminaire cover in natural anodised surface finish aluminium extrusion.

The channel covers are for 21/39, 28/54 and 35/49/80 wattages and are each available in a 1, 2, or 3-length design.

Model	Description	L	Prod. code.
U-LINE-ZAB 139 NE	Luminaire cover natural anodised aluminium 39W, 1-length	886	0204338AF
U-LINE-ZAB 1500 NE	Luminaire cover natural anodised aluminium, length 1500mm	1500	0204326AF
U-LINE-ZAB 154 NE	Luminaire cover natural anodised aluminium 54W, 1-length	1186	0204319AF
U-LINE-ZAB 180 NE	Luminaire cover natural anodised aluminium 80W, 1-length	1486	0204320AF
U-LINE-ZAB 2X139 NE	Luminaire cover natural anodised aluminium 39W, 2-length	1772	0204339AF
U-LINE-ZAB 2X154 NE	Luminaire cover natural anodised aluminium 54W, 2-length	2372	0204321AF
U-LINE-ZAB 2X180 NE	Luminaire cover natural anodised aluminium 80W, 2-length	2972	0204322AF
U-LINE-ZAB 3X139 NE	Luminaire cover natural anodised aluminium 39W, 3-length	2657	0204340AF
U-LINE-ZAB 3X154 NE	Luminaire cover natural anodised aluminium 54W, 3-length	3557	0204323AF
U-LINE-ZAB 3X180 NE	Luminaire cover natural anodised aluminium 80W, 3-length	4457	0204324AF
U-LINE-ZAB 500 NE	Luminaire cover natural anodised aluminium, length 500mm	500	0204325AF



### U-LINE-ZAO

Dummy luminaire cover in opal UV-resistant PMMA. (T16 54 and 80 watts only in conjunction with U-LINE-GR or U-LINE-GTRI). The channel covers are for 21/39, 28 and 35/49 wattages and are each available in a 1, 2, or 3-length design.

Model	Description	L	Prod. code.
U-LINE-ZAO 128	Luminaire cover opal 28W, 1-length, PMMA	1181	0204313
U-LINE-ZAO 139	Luminaire cover opal 39W, 1-length, PMMA	881	0204335
U-LINE-ZAO 149	Luminaire cover opal 49W, 1-length, PMMA	1480	0204314
U-LINE-ZAO 2X128	Luminaire cover opal 28W, 2-length, PMMA	2365	0204315
U-LINE-ZAO 2X139	Luminaire cover opal 39W, 2-length, PMMA	1767	0204336
U-LINE-ZAO 2X149	Luminaire cover opal 49W, 2-length, PMMA	2964	0204316
U-LINE-ZAO 3x128	Luminaire cover opal 28W, 3-length, PMMA	3550	0204317
U-LINE-ZAO 3X139	Luminaire cover opal 39W, 3-length, PMMA	2651	0204337
U-LINE-ZAO 3x149	Luminaire cover opal 49W, 3-length, PMMA	4448	0204318



### U-LINE-ZMPS

Transparent co-extruded acrylic cover in clear UV-stabilised PMMA, with external microprism structure. Internal longitudinal fins for positioning made of impact-resistant UV-stabilised PMMA with opal light-impermeable coloration to prevent unwanted light reflection. (T16 54 and 80 watts only in conjunction with U-LINE-GTR or U-LINE-GTRI).

Model	Description	Prod. code.
U-LINE-ZMPS 128	Luminaire cover MPS 28W, 1-length, PMMA	0204924
U-LINE-ZMPS 139	Luminaire cover MPS 39W, 1-length, PMMA	0204923
U-LINE-ZMPS 149	Luminaire cover MPS 49W, 1-length, PMMA	0204925
U-LINE-ZMPS 2X128	Luminaire cover MPS 28W, 2-length, PMMA	0204927
U-LINE-ZMPS 2X139	Luminaire cover MPS 39W, 2-length, PMMA	0204926
U-LINE-ZMPS 2X149	Luminaire cover MPS 49W, 2-length, PMMA	0204928
U-LINE-ZMPS 3X128	Luminaire cover MPS 28W, 3-length, PMMA	0204930
U-LINE-ZMPS 3X139	Luminaire cover MPS 39W, 3-length, PMMA	0204929
U-LINE-ZMPS 3X149	Luminaire cover MPS 49W, 3-length, PMMA	0204931

## Parabolic mirror louvre U-LINE-SRM-R

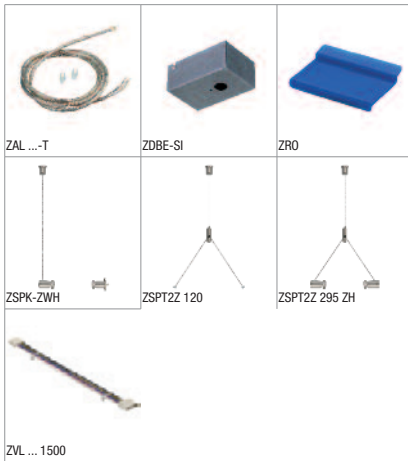
**Design:** Parabolic mirror louvre for clipping into channel U-LINE-TBD and -TVD / U-LINE-TBZHD and -TVZH as well as U-LINE-TBZHW. Can be used in combination with gear tray U-LINE-GTR-R. One parabolic louvre is required per gear tray.



### U-LINE-SRM-R

Parabolic mirror louvre made of silk matt super-purity anodised aluminium with silver coating

Model	Description	L	Prod. code.
U-LINE-SRM-R1X085	Parabolic mirror louvre matt anodised R-TUBE 085	885	0208842
U-LINE-SRM-R1X115	Parabolic mirror louvre matt anodised R-TUBE 115	1185	0208516
U-LINE-SRM-R1X145	Parabolic mirror louvre matt anodised R-TUBE 145	1485	0208518



## Accessories







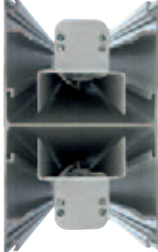






Model	Description	Prod. code.
H-LINE-ED NE	End cap H-LINE for 2xZAO, anodised, 1 pc	0208299AF
H-LINE-ED-GO-NAL NE	End cap mains conn., use with U-LINE-GO-F indirect, 1 pc.	0208905AF
H-LINE-EDD-R NE	End cap H-LINE, for 1xZAO/1xSR.-R, natural anodised, 1pc.	0208823AF
H-LINE-TV	Channel conn. for H-LINE, 1 pc	0208304
H-LINE-VSK NE	K-shaped channel connector, t.w. 7x1.5mm <sup>2</sup> , H-LINE, 1 pc	0208319AF
H-LINE-VSL-135° NE	L-sh. channel connector 135°, t.w. 7x1.5mm <sup>2</sup> , H-LINE, 1 pc	0208320AF
H-LINE-VSL-90° NE	L-sh. channel connector 90°, t.w. 7x1.5mm <sup>2</sup> , H-LINE, 1 pc	0208305AF
H-LINE-VST NE	T-sh. channel connector, t.w. 7x1.5mm <sup>2</sup> , H-LINE, 1 pc	0208307AF
Z-ZWHA	Wall fixing kit, cylindrical support, H-LINE, 1 pc	0204819
ZAL 3X1,5/1,5M-T	Clear mains cable, 3x1.5mm <sup>2</sup> , 1.5 metre	0207977
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5X1,5/1,5M-T	Clear mains cable, 5x1.5mm <sup>2</sup> , 1.5 metre	0207978
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZDBE-SI	Rect. canopy silver, for Y wire pendant, ZUSP and UKNS	0204332SI
ZEL-NA-U-LINE	Mains connecting set 2 x socket, 1 x plug	0208982
ZKF 3X0,75/1,0M	Cable guide C-profile, for dia. 4-5mm, 1 metre, transparent	0207979
ZRO	Frame opener	0204003
ZSPK-ZWH	Wire pendant, ceiling fixing, ball, cyl. wall hldr 1.5m, 1pc	0204333
ZSPT2Z 120	'Y' wire pendant with ceiling fixture, cyl. 1.5 m, 1 pc	0203582
ZSPT2Z-295 ZH	'Y' wire pendant with ceiling fixture, cyl. holder, 1.5m, 1pc	0204309
ZVL-7X1.5/1500	7-core connecting cable socket + plug, 1.5m	0204312
ZVL-7X1.5/500	7-core connecting cable socket + plug, 0.5m	0204311

**Note:** One wire or tube pendant must be ordered per suspension point.





Linear lighting systems

		RIDI-TUBE	LED module
<b>U-LINE</b> Cross section 69 x 57 mm			
<b>U-LINE-M..</b> Cross section 38 x 41 mm			
<b>H-LINE</b> Cross section 69 x 114 mm			
<b>H-LINE-M..</b> Cross section 38 x 82 mm			
<b>VENICE</b> Cross section 67 x 98 mm			

# U-LINE-MBE

## U-LINE "mini" pendant/surface-mounted luminaire with recessed canopy

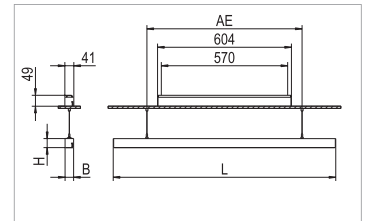
**Design:** LED pendant/surface-mounted single luminaire, direct beam. Very narrow luminaire body in extruded sectional aluminium, natural anodized with gear tray for recessed ceiling mounting. Recessed canopy in galvanized steel accommodates all the electrical components including transparent 1.5 m supply cable from the canopy to the luminaire. End caps in natural anodized aluminium. RIDI LED module configured as a linear circuit board. Mid-power LEDs ensure even illumination and maximum efficiency mounted on base profile made of extruded solid sectional aluminium for optimum thermal management.

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>, mounted in a separate canopy. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>, mounted in a separate canopy. Suitable for direct voltage operation and use in central battery systems

**Mounting:** Surface mounting of the luminaire using surrounding fixing clips, recessed canopy for insertion in the false ceiling. Pendant mounting of the luminaire with defined spacing between fixings or using surrounding lengthways movable fixing clips, recessed canopy for insertion in the false ceiling. Recessed mounting possible using suitable fixing kit. In this case, the gap between the luminaire and the ceiling cut-out must be filled, by applying filler manually or with a caulking gun. Fixing kits must be ordered separately, see accessories.



### Non-standard designs:

- Other light colours
- Paintwork finish in RAL colour
- Constructs with straight, L, T and X connectors



acc. to DIN EN 60598/VDE 0711

### U-LINE-MBE ... OS

Opal extruded acrylic cover, made of satinised, impact-resistant UV-stabilised PMMA for homogeneous illumination. LEDs concealed. Fastened at the channel by internal longitudinal fins.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code.	dim. conv. DALI Prod. code.
						L	B	H		
U-LINE-MBE-100xxNE-3200S830	1xLED-M 22 W	1818	26	69	830	1004	38	41	0624316AF	0634316AF
U-LINE-MBE-100xxNE-3300S840	1xLED-M 22 W	1874	26	72	840	1004	38	41	0624315AF	0634315AF
U-LINE-MBE-150xxNE-4700S830	1xLED-M 32 W	2670	37	72	830	1504	38	41	0624322AF	0634322AF
U-LINE-MBE-150xxNE-5000S840	1xLED-M 32 W	2840	37	76	840	1504	38	41	0624317AF	0634317AF
U-LINE-MBE-200xxNE-6400S830	2xLED-M 20 W	3635	52	69	830	2004	38	41	0624319AF	0634319AF
U-LINE-MBE-200xxNE-6600S840	2xLED-M 20 W	3749	52	72	840	2004	38	41	0624318AF	0634318AF
U-LINE-MBE-300xxNE-10000S840	2xLED-M 32 W	5680	74	76	840	3004	38	41	0624320AF	0634320AF
U-LINE-MBE-300xxNE-9400S830	2xLED-M 32 W	5339	74	72	830	3004	38	41	0624321AF	0634321AF

### U-LINE-MBE ... DPS

Transparent extruded acrylic cover, in clear UV stabilised PMMA with external diamond-shaped microprism structure to reduce glare. LEDs visible as spots. Fastened at the channel by internal longitudinal fins.

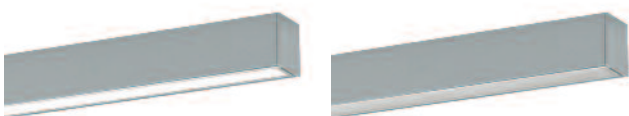


Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code.	dim. conv. DALI Prod. code.
						L	B	H		
U-LINE-MBE-100xxNE-3200DPS830	1xLED-M 22 W	2659	26	102	830	1004	38	41	0624308AF	0634308AF
U-LINE-MBE-100xxNE-3300DPS840	1xLED-M 22 W	2742	26	105	840	1004	38	41	0624307AF	0634307AF
U-LINE-MBE-150xxNE-4700DPS830	1xLED-M 32 W	3906	37	105	830	1504	38	41	0624310AF	0634310AF
U-LINE-MBE-150xxNE-5000DPS840	1xLED-M 32 W	4155	37	112	840	1504	38	41	0624309AF	0634309AF
U-LINE-MBE-200xxNE-6400DPS830	2xLED-M 20 W	5318	52	102	830	2004	38	41	0624312AF	0634312AF
U-LINE-MBE-200xxNE-6600DPS840	2xLED-M 20 W	5485	52	105	840	2004	38	41	0624311AF	0634311AF
U-LINE-MBE-300xxNE-10000DPS840	2xLED-M 32 W	8310	74	112	840	3004	38	41	0624313AF	0634313AF
U-LINE-MBE-300xxNE-9400DPS830	2xLED-M 32 W	7811	74	105	830	3004	38	41	0624314AF	0634314AF

## Accessories

Model	Description	Prod. code.
ZEB S U-LINE-M	Fixing kit for U-LINE-MBE, 1 pc	0204822
ZHK-DA U-LINE-M	Holder ceiling surface mounting, ceiling distance appr.15mm, 1 pc.	0204798
ZSP-HK U-LINE-M	Wire pendant w. clamp, H-LINE-M, 1.5m 1 pc	0204820
ZSP-TPD U-LINE-M	Wire pendant for direct channel, U-LINE-M, 1.5m 1 pc	0204821

Selective enlargement:



## U-LINE “mini” pendant/surface-mounted luminaire with surface-mounted canopy

**Design:** LED pendant/surface-mounted single luminaire, direct beam. Very arrow luminaire body in extruded sectional aluminium, natural anodized with ceiling surface-mounted canopy. Surface-mounted canopy, powder coated silver, colour similar to RAL9006, accommodates all the electrical components including transparent 1.5 m supply cable from the canopy to the luminaire. End caps in natural anodized aluminium.

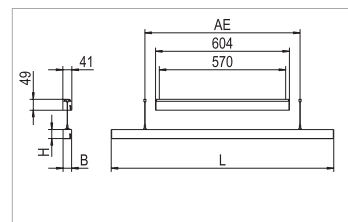
RIDI LED modules configured as a linear circuit board. Mid-power LEDs ensure even illumination and maximum efficiency mounted on base profile made of extruded solid sectional aluminium for optimum thermal management.

Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>, mounted in a separate canopy. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>, mounted in a separate canopy. Suitable for direct voltage operation and use in central battery systems

**Mounting:** Surface mounting of the luminaire using surrounding fixing clips, ceiling canopy in luminaire extension with defined spacing between fixings. Pendant mounting of the luminaire with defined spacing between fixings or using surrounding lengthways movable fixing clips. Ceiling canopy above the luminaire with defined spacing between fixings. The ceiling canopy can accommodate a wire fixture or be independently mounted. Fixing kits must be ordered separately, see accessories.



### Non-standard designs:

- Other light colours
- Paintwork finish in RAL colour
- Constructs with straight, L, T and X connectors



acc. to DIN EN 60598/VDE 0711

### U-LINE-MBA ... OS

Opal extruded acrylic cover, made of satinised, impact-resistant UV-stabilised PMMA for homogeneous illumination. LEDs concealed. Fastened at the channel by internal longitudinal fins.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code.	dim. conv. DALI Prod. code.
						L	B	H		
U-LINE-MBA-100xxNE-320OS830	1xLED-M 22 W	1818	26	69	830	1004	38	41	0624356AF	0634356AF
U-LINE-MBA-100xxNE-330OS840	1xLED-M 22 W	1874	26	72	840	1004	38	41	0624358AF	0634358AF
U-LINE-MBA-150xxNE-470OS830	1xLED-M 32 W	2670	37	72	830	1504	38	41	0624360AF	0634360AF
U-LINE-MBA-150xxNE-500OS840	1xLED-M 32 W	2840	37	76	840	1504	38	41	0624362AF	0634362AF
U-LINE-MBA-200xxNE-640OS830	2xLED-M 20 W	3635	52	69	830	2004	38	41	0624364AF	0634364AF
U-LINE-MBA-200xxNE-660OS840	2xLED-M 20 W	3749	52	72	840	2004	38	41	0624366AF	0634366AF
U-LINE-MBA-300xxNE-1000OS840	2xLED-M 32 W	5680	74	76	840	3004	38	41	0624368AF	0634368AF
U-LINE-MBA-300xxNE-940OS830	2xLED-M 32 W	5339	74	72	830	3004	38	41	0624370AF	0634370AF

### U-LINE-MBA ... DPS

Transparent extruded acrylic cover, in clear UV stabilised PMMA with external diamond-shaped microprism structure to reduce glare. LEDs visible as spots. Fastened at the channel by internal longitudinal fins.

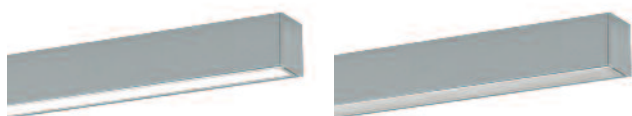


Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code.	dim. conv. DALI Prod. code.
						L	B	H		
U-LINE-MBA-100xxNE-320DPS830	1xLED-M 22 W	2659	26	102	830	1004	38	41	0624355AF	0634355AF
U-LINE-MBA-100xxNE-330DPS840	1xLED-M 22 W	2742	26	105	840	1004	38	41	0624357AF	0634357AF
U-LINE-MBA-150xxNE-470DPS830	1xLED-M 32 W	3906	37	105	830	1504	38	41	0624359AF	0634359AF
U-LINE-MBA-150xxNE-500DPS840	1xLED-M 32 W	4155	37	112	840	1504	38	41	0624361AF	0634361AF
U-LINE-MBA-200xxNE-640DPS830	2xLED-M 20 W	5318	52	102	830	2004	38	41	0624363AF	0634363AF
U-LINE-MBA-200xxNE-660DPS840	2xLED-M 20 W	5485	52	105	840	2004	38	41	0624365AF	0634365AF
U-LINE-MBA-300xxNE-1000DPS840	2xLED-M 32 W	8310	74	112	840	3004	38	41	0624367AF	0634367AF
U-LINE-MBA-300xxNE-940DPS830	2xLED-M 32 W	7811	74	105	830	3004	38	41	0624369AF	0634369AF

## Accessories

Model	Description	Prod. code.
ZHK-DA U-LINE-M	Holder ceiling surface mounting, ceiling distance appr.15mm, 1 pc.	0204798
ZSP-HK U-LINE-M	Wire pendant w. clamp, H-LINE-M, 1.5m 1 pc	0204820
ZSP-TPD U-LINE-M	Wire pendant for direct channel, U-LINE-M, 1.5m 1 pc	0204821

Selective enlargement:



# H-LINE-MBE

## H-LINE "mini" pendant/surface-mounted luminaire with recessed canopy

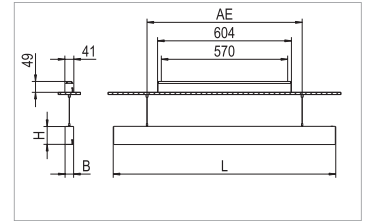
**Design:** Single LED pendant luminaire, direct/indirect beam. Very narrow luminaire body in extruded sectional aluminium, natural anodized with gear tray for recessed ceiling mounting. Recessed canopy in galvanised steel accommodates all the electrical components including transparent 1.5 m supply cable from the canopy to the luminaire. End caps in natural anodized aluminium. Extruded acrylic cover made of clear satinised impact-resistant UV-stabilised PMMA for efficient coverage of the indirect lighting component. LEDs visible. Fixture on the channel by internal longitudinal ribs. RIDI LED module configured as a linear circuit board. Mid-power LEDs ensure even illumination and maximum efficiency mounted on base profile made of extruded solid sectional aluminium for optimum thermal management.

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>, mounted in a separate canopy. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>, mounted in a separate canopy. Suitable for direct voltage operation and use in central battery systems

**Mounting:** Pendant mounting of the luminaire by means of lengthways movable fixing brackets, which requires sawing of the top plastic cover, or by means of lengthways moveable surrounding fixing clips. Recessed canopy for insertion in the false ceiling. Fixing kits must be ordered separately, see accessories.



### Non-standard designs:

- Other light colours
- Paintwork finish in RAL colour
- Constructs with straight, L, T and X connectors



acc. to DIN EN 60598/VDE 0711



### H-LINE-MBE ... OS

Direct component with opal extruded acrylic cover, made of satinised, impact-resistant UV-stabilised PMMA for homogeneous illumination. LEDs concealed. Fastened at the channel by internal longitudinal fins.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code.	dim. conv. DALI Prod. code.
						L	B	H		
H-LINE-MBE-100xxNE-6400S830	2xLED-M 20 W	4371	52	84	830	1004	38	82	0624332AF	0634332AF
H-LINE-MBE-100xxNE-6600S840	2xLED-M 20 W	4508	52	86	840	1004	38	82	0624331AF	0634331AF
H-LINE-MBE-150xxNE-10000S840	2xLED-M 32 W	6830	74	92	840	1504	38	82	0624333AF	0634333AF
H-LINE-MBE-150xxNE-9400S830	2xLED-M 32 W	6420	74	86	830	1504	38	82	0624334AF	0634334AF
H-LINE-MBE-200xxNE-12800S830	4xLED-M 22 W	8742	104	84	830	2004	38	82	0624336AF	0634336AF
H-LINE-MBE-200xxNE-13200S840	4xLED-M 22 W	9016	104	86	840	2004	38	82	0624335AF	0634335AF
H-LINE-MBE-300xxNE-18800S830	4xLED-M 32 W	12840	148	86	830	3004	38	82	0624338AF	0634338AF
H-LINE-MBE-300xxNE-20000S840	4xLED-M 32 W	13660	148	92	840	3004	38	82	0624337AF	0634337AF



### H-LINE-MBE ... DPS

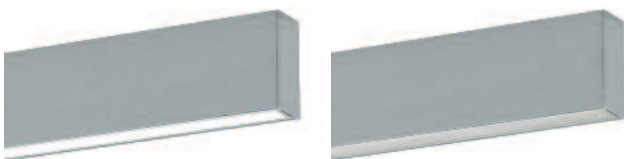
Direct component with transparent extruded acrylic cover, in clear UV stabilised PMMA with external diamond-shaped microprism structure to reduce glare. LEDs visible as spots. Fastened at the channel by internal longitudinal fins.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code.	dim. conv. DALI Prod. code.
						L	B	H		
H-LINE-MBE-100xxNE-640DPS830	2xLED-M 20 W	5267	52	101	830	1004	38	82	0624324AF	0634324AF
H-LINE-MBE-100xxNE-660DPS840	2xLED-M 20 W	5432	52	104	840	1004	38	82	0624323AF	0634323AF
H-LINE-MBE-150xxNE-1000DPS840	2xLED-M 32 W	8230	74	111	840	1504	38	82	0624325AF	0634325AF
H-LINE-MBE-150xxNE-940DPS830	2xLED-M 32 W	7736	74	104	830	1504	38	82	0624326AF	0634326AF
H-LINE-MBE-200xxNE-1280DPS830	4xLED-M 22 W	10534	104	101	830	2004	38	82	0624328AF	0634328AF
H-LINE-MBE-200xxNE-1320DPS840	4xLED-M 22 W	10864	104	104	840	2004	38	82	0624327AF	0634327AF
H-LINE-MBE-300xxNE-1880DPS830	4xLED-M 32 W	15472	148	104	830	3004	38	82	0624330AF	0634330AF
H-LINE-MBE-300xxNE-2000DPS840	4xLED-M 32 W	16460	148	111	840	3004	38	82	0624329AF	0634329AF

## Accessories

Model	Description	Prod. code.
ZSP-HK H-LINE-M	Wire pendant w. clamp, H-LINE-M, 1.5m 1 pc	0204824
ZSP-TPI H-LINE-M	Wire pendant for indirect carrier prof. H-LINE-M, 1.5m 1pc	0204823

Selective enlargement:



## H-LINE “mini” pendant/surface-mounted luminaire with surface-mounted canopy

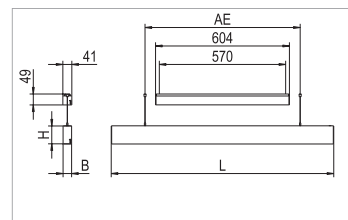
**Design:** Single LED pendant luminaire, direct/indirect beam. Very narrow luminaire body in extruded sectional aluminium, natural anodized with ceiling surface-mounted canopy. Surface-mounted canopy, powder coated in silver, colour similar to RAL9006, accommodates all the electrical components including transparent 1.5 m supply cable from the canopy to the luminaire. End caps in natural anodized aluminium. Extruded acrylic cover made of clear satinised impact-resistant UV-stabilised PMMA for efficient coverage of the indirect lighting component. LEDs visible. Fixture on the channel by internal longitudinal ribs. RIDI LED module configured for direct and indirect beam as a linear circuit board. Mid-power LEDs ensure even illumination and maximum efficiency mounted on base profile made of extruded solid sectional aluminium for optimum thermal management.

Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>, mounted in a separate canopy. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>, mounted in a separate canopy. Suitable for direct voltage operation and use in central battery systems

**Mounting:** Pendant mounting of the luminaire by means of lengthways movable fixing brackets, which requires sawing of the top plastic cover, or by means of lengthways movable surrounding fixing clips. Ceiling canopy above the luminaire with defined spacing between fixings. The ceiling canopy can accommodate a wire fixture or be independently mounted. Fixing kits must be ordered separately, see accessories.



### Non-standard designs:

- Other light colours
- Paintwork finish in RAL colour
- Constructs with straight, L, T and X connectors



acc. to DIN EN 60598/VDE 0711

### H-LINE-MBA ... OS

Direct component with opal extruded acrylic cover, made of satinised, impact-resistant UV-stabilised PMMA for homogeneous illumination. LEDs concealed. Fastened at the channel by internal longitudinal fins.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code.	dim. conv. DALI Prod. code.
						L	B	H		
H-LINE-MBA-100xxNE-640OS830	2xLED-M 20 W	4371	52	84	830	1004	38	82	0624340AF	0634340AF
H-LINE-MBA-100xxNE-660OS840	2xLED-M 20 W	4508	52	86	840	1004	38	82	0624342AF	0634342AF
H-LINE-MBA-150xxNE-1000OS840	2xLED-M 32 W	6830	74	92	840	1504	38	82	0624344AF	0634344AF
H-LINE-MBA-150xxNE-940OS830	2xLED-M 32 W	6420	74	86	830	1504	38	82	0624346AF	0634346AF
H-LINE-MBA-200xxNE-1280OS830	4xLED-M 22 W	8742	104	84	830	2004	38	82	0624348AF	0634348AF
H-LINE-MBA-200xxNE-1320OS840	4xLED-M 22 W	9016	104	86	840	2004	38	82	0624350AF	0634350AF
H-LINE-MBA-300xxNE-1880OS830	4xLED-M 32 W	12840	148	86	830	3004	38	82	0624352AF	0634352AF
H-LINE-MBA-300xxNE-2000OS840	4xLED-M 32 W	13660	148	92	840	3004	38	82	0624354AF	0634354AF

### H-LINE-MBA ... DPS

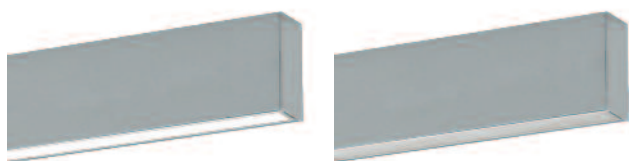
Direct component with transparent extruded acrylic cover, in clear UV stabilised PMMA with external diamond-shaped microprism structure to reduce glare. LEDs visible as spots. Fastened at the channel by internal longitudinal fins.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code.	dim. conv. DALI Prod. code.
						L	B	H		
H-LINE-MBA-100xxNE-640DPS830	2xLED-M 20 W	5267	52	101	830	1004	38	82	0624339AF	0634339AF
H-LINE-MBA-100xxNE-660DPS840	2xLED-M 20 W	5432	52	104	840	1004	38	82	0624341AF	0634341AF
H-LINE-MBA-150xxNE-1000DPS840	2xLED-M 32 W	8230	74	111	840	1504	38	82	0624343AF	0634343AF
H-LINE-MBA-150xxNE-940DPS830	2xLED-M 32 W	7736	74	104	830	1504	38	82	0624345AF	0634345AF
H-LINE-MBA-200xxNE-1280DPS830	4xLED-M 22 W	10534	104	101	830	2004	38	82	0624347AF	0634347AF
H-LINE-MBA-200xxNE-1320DPS840	4xLED-M 22 W	10864	104	104	840	2004	38	82	0624349AF	0634349AF
H-LINE-MBA-300xxNE-1880DPS830	4xLED-M 32 W	15472	148	104	830	3004	38	82	0624351AF	0634351AF
H-LINE-MBA-300xxNE-2000DPS840	4xLED-M 32 W	16460	148	111	840	3004	38	82	0624353AF	0634353AF

## Accessories

Model	Description	Prod. code.
ZSP-HK H-LINE-M	Wire pendant w. clamp, H-LINE-M, 1.5m 1 pc	0204824
ZSP-TPI H-LINE-M	Wire pendant for indirect carrier prof. H-LINE-M, 1.5m 1pc	0204823

Selective enlargement:



# F-LINE-R1 ... / -R2 ... for RIDI-TUBE lamp (LED)

## F-LINE-R1 ... / -R2 ..., direct beam

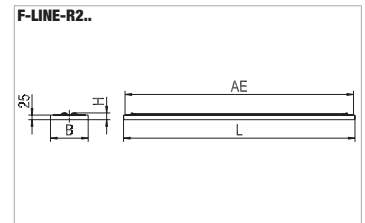
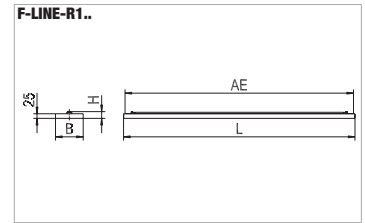
**Design:** Single luminaire designed for pendant mounting with low-profile luminaire housing. Housing with seamless underside, in edged steel, white (similar to RAL9016) or silver (-SI, similar to RAL9006), powder coated. Top of housing with fixing points spaced (35 mm) for variable wire pendant luminaire mounting. For RIDI-TUBE lamps (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

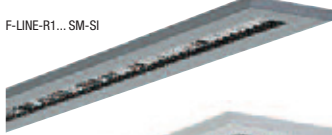
### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

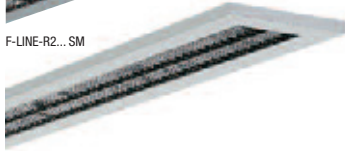
**Mounting:** The luminaires are suitable for ceiling pendant mounting using wire pendants or with accessories for direct ceiling mounting. Wire pendant mounting F-LINE 1.. with ZSPT2Z 190, F-LINE 2.. with ZSPT2Z 295. To configure F-LINE constructs, straight, L, T and X shaped connectors are available, see accessories.



F-LINE-R1... SM-SI



F-LINE-R2... SM



### F-LINE-R ... SM

Parabolic mirror louvre SM made of matt super-purity anodised aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
				B	H	AE min	AE max		
F-LINE-R1X115/30xx-SM	1xR-TUBE 30 W	E, F	1253	150	45	840	1190	0650210	0660210
F-LINE-R1X115/30xx-SM-SI	1xR-TUBE 30 W	E, F	1253	150	45	840	1190	0650210SI	0660210SI
F-LINE-R1X145/35xx-SM	1xR-TUBE 35 W	H, I	1553	150	45	1140	1490	0650211	0660211
F-LINE-R1X145/35xx-SM-SI	1xR-TUBE 35 W	H, I	1553	150	45	1140	1490	0650211SI	0660211SI
F-LINE-R2X115/30xx-SM	2xR-TUBE 30 W	E, F	1253	204	45	840	1190	0650248	0660248
F-LINE-R2X115/30xx-SM-SI	2xR-TUBE 30 W	E, F	1253	204	45	840	1190	0650248SI	0660248SI
F-LINE-R2X145/35xx-SM	2xR-TUBE 35 W	H, I	1553	204	45	1140	1490	0650250	0660250
F-LINE-R2X145/35xx-SM-SI	2xR-TUBE 35 W	H, I	1553	204	45	1140	1490	0650250SI	0660250SI

F-LINE-R1... 0-SI



### F-LINE-R ... 0

Opal profile cover made of UV-stabilised PMMA with satinised surface. For RIDI-TUBE lamp, recommended cover: clear.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
				B	H	AE min	AE max		
F-LINE-R1X115/30xx-0	1xR-TUBE 30 W	E, F	1253	150	45	840	1190	0650240	0660240
F-LINE-R1X115/30xx-0-SI	1xR-TUBE 30 W	E, F	1253	150	45	840	1190	0650240SI	0660240SI
F-LINE-R1X145/35xx-0	1xR-TUBE 35 W	H, I	1553	150	45	1140	1490	0650244	0660244
F-LINE-R1X145/35xx-0-SI	1xR-TUBE 35 W	H, I	1553	150	45	1140	1490	0650244SI	0660244SI

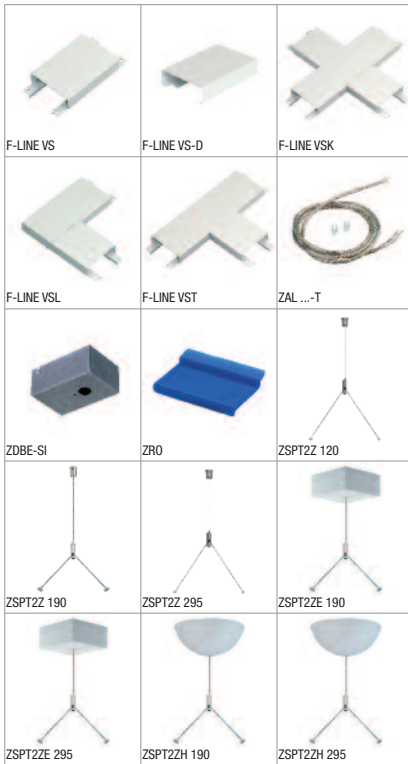
F-LINE-R1... MPS-SI



### F-LINE-R ... MPS

Transparent co-extruded acrylic cover in clear UV-stabilised PMMA, with external microprism structure. Internal longitudinal fins for fixture made of impact-resistant, UV-stabilised PMMA, with opal light-impermeable coloration to prevent unwanted light reflection. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
				B	H	AE min	AE max		
F-LINE-R1X115/30xx-MPS	1xR-TUBE 30 W	E, F	1253	150	45	840	1190	0650241	0660241
F-LINE-R1X115/30xx-MPS-SI	1xR-TUBE 30 W	E, F	1253	150	45	840	1190	0650241SI	0660241SI
F-LINE-R1X145/35xx-MPS	1xR-TUBE 35 W	H, I	1553	150	45	1140	1490	0650245	0660245
F-LINE-R1X145/35xx-MPS-SI	1xR-TUBE 35 W	H, I	1553	150	45	1140	1490	0650245SI	0660245SI



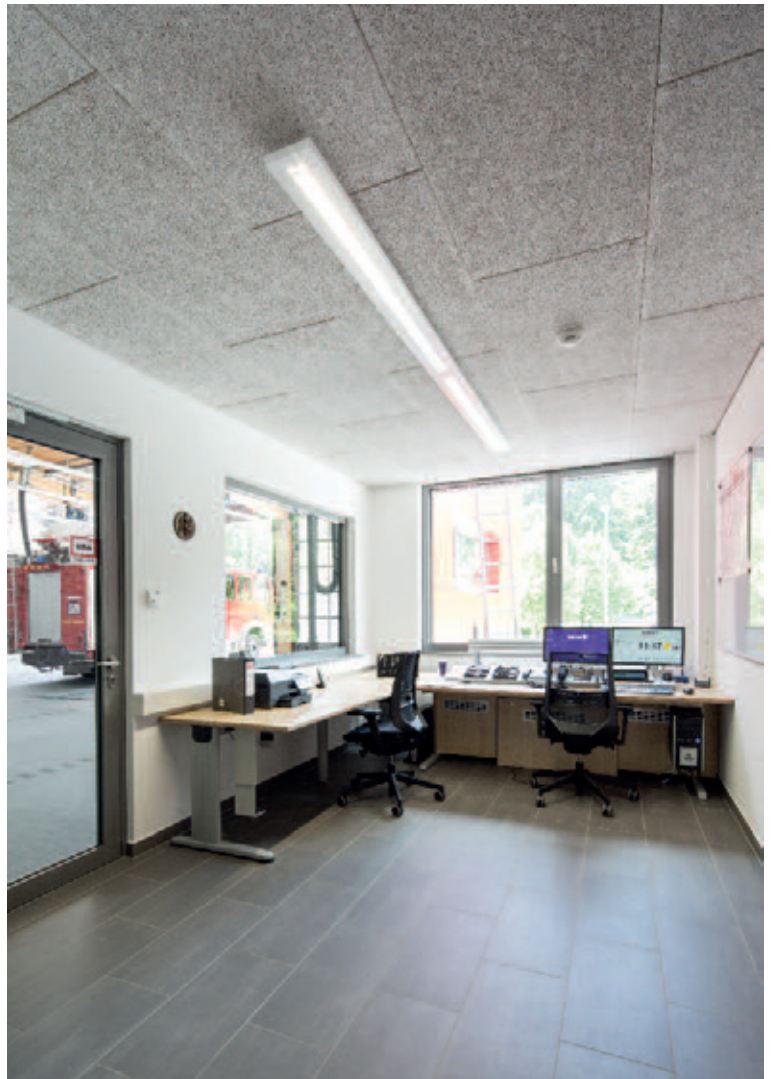
## Accessories

Model	Description	Prod. code.
F-LINE-VS	Lum. connector f. F-LINE, 100mm, white, pendant m. only, 1 pc	0207971
F-LINE-VS-D	Lum. connector f. F-LINE, 100mm, white, ceiling surface m., 1 pc	0208095
F-LINE-VS-D-SI	Lum. connector f. F-LINE, 100mm, silver, ceiling surface m., 1 pc	0208095SI
F-LINE-VS-SI	Lum. connector f. F-LINE, 100mm, silver, pendant m. only, 1 pc	0207971SI
F-LINE-VSK 1../2..	X-sh. lum. connector f. F-LINE, white, pendant m. only	0207974
F-LINE-VSK 1../2.. SI	X-sh. lum. connector f. F-LINE, silver, pendant m. only	0207974SI
F-LINE-VSL 1../2..	L-sh. lum. connector f. F-LINE, white, pendant m. only	0207972
F-LINE-VSL 1../2.. SI	L-sh. lum. connector f. F-LINE, silver, pendant m. only	0207972SI
F-LINE-VST 1../2..	T-sh. lum. connector f. F-LINE, white, pendant m. only	0207973
F-LINE-VST 1../2.. SI	T-sh. lum. connector f. F-LINE, silver, pendant m. only	0207973SI
ZAL 3X1,5/1,5M-T	Clear mains cable, 3x1.5mm <sup>2</sup> , 1.5 metre	0207977
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5X1,5/1,5M-T	Clear mains cable, 5x1.5mm <sup>2</sup> , 1.5 metre	0207978
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZDBE-SI	Rect. canopy silver, for Y wire pendant, ZUSP and UKNS	0204332SI
ZIDV-F-LINE 28/3/1,5	Through wiring F-LINE .28, 3x1.5mm <sup>2</sup> , L=1.7m, max.10A	0201255
ZIDV-F-LINE 28/5/1,5 DIM	Through wiring F-LINE .28, 5x1.5mm <sup>2</sup> , L=1.7m, max.10A	0201256
ZIDV-F-LINE 35/3/1,5	Through wiring F-LINE .35, 3x1.5mm <sup>2</sup> , L=2.0m, max.10A	0201253
ZIDV-F-LINE 35/5/1,5 DIM	Through wiring F-LINE .35, 5x1.5mm <sup>2</sup> , L=2.0m, max.10A	0201254
ZKF 3X0,75/1,0M	Cable guide C-profile, for dia. 4-5mm, 1 metre, transparent	0207979
ZRO	Frame opener	0204003
<sup>2)</sup> ZSPT2Z 120	'Y' wire pendant with ceiling fixture, cyl. 1.5 m, 1 pc	0203582
<sup>1)</sup> ZSPT2Z 190	'Y' wire pendant with ceiling fixture, cyl. 1.5m, 1 pc	0203587
<sup>1)</sup> ZSPT2Z 295	'Y' wire pendant with ceiling fixture, cyl. 1.5m, 1 pc	0203583
<sup>1)</sup> ZSPT2ZE 190	'Y' wire pendant, rectangular canopy, 1.5m, 1 pc	0207976
<sup>1)</sup> ZSPT2ZE 190 SI	'Y' wire pendant, rectangular canopy silver, 1.5m, 1 pc	0207976SI
<sup>1)</sup> ZSPT2ZE 295	'Y' wire pendant, rectangular canopy white, 1.5m, 1 pc	0202897
<sup>1)</sup> ZSPT2ZE 295 SI	'Y' wire pendant, rect. canopy, silver, 1.5m, 1pc	0202897SI
<sup>1)</sup> ZSPT2ZH 190	'Y' wire pendant, domed canopy, white, 1.5m, 1 pc	0207975
<sup>1)</sup> ZSPT2ZH 190 SI	'Y' wire pendant, domed canopy, silver, 1.5m, 1 pc	0207975SI
<sup>1)</sup> ZSPT2ZH 295	'Y' wire pendant, domed canopy, white, 1.5m, 1 pc	0202896
<sup>1)</sup> ZSPT2ZH 295 SI	'Y' wire pendant, domed canopy, silver, 1.5m, 1 pc	0202896SI

**Note:** One wire or tube pendant must be ordered per suspension point.

<sup>1)</sup> Wire pendant mounting: F-LINE single lamp with ZSPT2Z. 190, dual-lamp with ZSPT2Z. 295, 2 per luminaire

<sup>2)</sup> Wire pendant for luminaire connector F-LINE-VS...



# F-LINE-R1 ...-I / -R2 ...-I for RIDI-TUBE lamp (LED)

## F-LINE-R1 ...-I / -R2 ...-I, direct-indirect beam

**Design:** Single luminaire designed for pendant mounting with low-profile luminaire housing. Housing with seamless underside, in edged sheet steel, white (similar to RAL9016) or silver (-SI, similar to RAL9006) powder coated. Back of housing with fixing points spaced (35 mm) for variable wire pendant luminaire mounting. Indirect component with permanently mounted RIDI LED modules recessed into top of luminaire, covered with optically efficient longitudinal clear PMMA optics flush with the surface. Light colour 4,000 Kelvin (840), other light colours on request. For RIDI-TUBE lamps (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

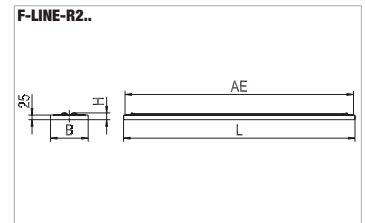
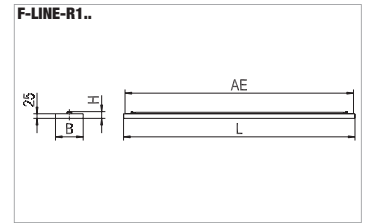
### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** The luminaires are suitable for ceiling pendant mounting using wire pendants.

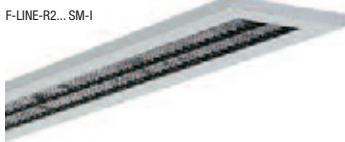
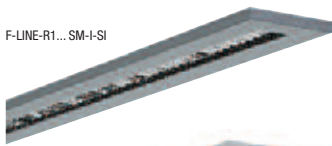
Wire pendant mounting F-LINE 1.. with ZSPT2Z 190, F-LINE 2.. with ZSPT2Z 295.

To configure F-LINE constructs, straight, L, T and X shaped connectors are available, see accessories..



### Non-standard designs:

- Indirect component in different light colours



### F-LINE-R ... SM-I

Parabolic mirror louvre SM made of matt super-purity anodised aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]					el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
			L	B	H	AE min	AE max		
F-LINE-R1X115/30xx-SM-I840	1xR-TUBE 30 W +2xLED-M 4W	E, F	1253	150	45	840	1190	0657407	0667407
F-LINE-R1X115/30xx-SM-I840-SI	1xR-TUBE 30 W +2xLED-M 4W	E, F	1253	150	45	840	1190	0657407SI	0667407SI
F-LINE-R1X145/35xx-SM-I840	1xR-TUBE 35 W +2xLED-M 5W	H, I	1553	150	45	1140	1490	0657413	0667413
F-LINE-R1X145/35xx-SM-I840-SI	1xR-TUBE 35 W +2xLED-M 5W	H, I	1553	150	45	1140	1490	0657413SI	0667413SI
F-LINE-R2X115/30xx-SM-I840	2xR-TUBE 30 W +2xLED-M 4W	E, F	1253	204	45	840	1190	0657419	0667419
F-LINE-R2X115/30xx-SM-I840-SI	2xR-TUBE 30 W +2xLED-M 4W	E, F	1253	204	45	840	1190	0657419SI	0667419SI
F-LINE-R2X145/35xx-SM-I840	2xR-TUBE 35 W +2xLED-M 5W	H, I	1553	204	45	1140	1490	0657423	0667423
F-LINE-R2X145/35xx-SM-I840-SI	2xR-TUBE 35 W +2xLED-M 5W	H, I	1553	204	45	1140	1490	0657423SI	0667423SI



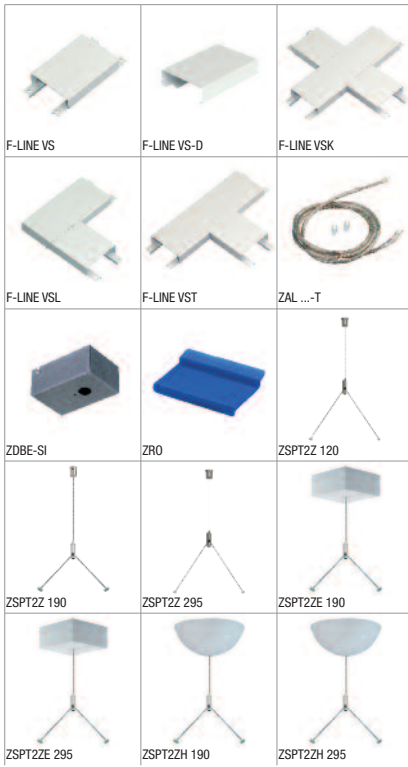
### F-LINE-R ... MPS-I

Transparent co-extruded acrylic cover made of clear UV-stabilised PMMA, with external microprism structure. Internal longitudinal fins for fixture made of impact-resistant, UV-stabilised PMMA, with opal light-impermeable coloration to prevent unwanted light reflection. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]					el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
			L	B	H	AE min	AE max		
F-LINE-R1X115/30xx-MPS-I840	1xR-TUBE 30 W +2xLED-M 4W	E, F	1253	150	45	840	1190	0657411	0667411
F-LINE-R1X115/30xx-MPS-I840-SI	1xR-TUBE 30 W +2xLED-M 4W	E, F	1253	150	45	840	1190	0657411SI	0667411SI
F-LINE-R1X145/35xx-MPS-I840	1xR-TUBE 35 W +2xLED-M 5W	H, I	1553	150	45	1140	1490	0657417	0667417
F-LINE-R1X145/35xx-MPS-I840-SI	1xR-TUBE 35 W +2xLED-M 5W	H, I	1553	150	45	1140	1490	0657417SI	0667417SI



## Accessories



Model	Description	Prod. code.
F-LINE-VS	Lum. connector f. F-LINE, 100mm, white, pendant m. only, 1 pc	0207971
F-LINE-VS-D	Lum. connector f. F-LINE, 100mm, white, ceiling surface m., 1 pc	0208095
F-LINE-VS-D-SI	Lum. connector f. F-LINE, 100mm, silver, ceiling surface m., 1 pc	0208095SI
F-LINE-VS-SI	Lum. connector f. F-LINE, 100mm, silver, pendant m. only, 1 pc	0207971SI
F-LINE-VSK 1../2..	X-sh. lum. connector f. F-LINE, white, pendant m. only	0207974
F-LINE-VSK 1../2.. SI	X-sh. lum. connector f. F-LINE, silver, pendant m. only	0207974SI
F-LINE-VSL 1../2..	L-sh. lum. connector f. F-LINE, white, pendant m. only	0207972
F-LINE-VSL 1../2.. SI	L-sh. lum. connector f. F-LINE, silver, pendant m. only	0207972SI
F-LINE-VST 1../2..	T-sh. lum. connector f. F-LINE, white, pendant m. only	0207973
F-LINE-VST 1../2.. SI	T-sh. lum. connector f. F-LINE, silver, pendant m. only	0207973SI
ZAL 3X1,5/1,5M-T	Clear mains cable, 3x1.5mm <sup>2</sup> , 1.5 metre	0207977
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5X1,5/1,5M-T	Clear mains cable, 5x1.5mm <sup>2</sup> , 1.5 metre	0207978
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZDBE-SI	Rect. canopy silver, for Y wire pendant, ZUSP and UKNS	0204332SI
ZIDV-F-LINE 28/3/1,5	Through wiring F-LINE .28, 3x1.5mm <sup>2</sup> , L=1.7m, max.10A	0201255
ZIDV-F-LINE 28/5/1,5 DIM	Through wiring F-LINE .28, 5x1.5mm <sup>2</sup> , L=1.7m, max.10A	0201256
ZIDV-F-LINE 35/3/1,5	Through wiring F-LINE .35, 3x1.5mm <sup>2</sup> , L=2.0m, max.10A	0201253
ZIDV-F-LINE 35/5/1,5 DIM	Through wiring F-LINE .35, 5x1.5mm <sup>2</sup> , L=2.0m, max.10A	0201254
ZKF 3X0,75/1,0M	Cable guide C-profile, for dia. 4-5mm, 1 metre, transparent	0207979
ZRO	Frame opener	0204003
<sup>2)</sup> ZSPT2Z 120	'Y' wire pendant with ceiling fixture, cyl. 1.5 m, 1 pc	0203582
ZSPT2Z 190	'Y' wire pendant with ceiling fixture, cyl. 1.5m, 1 pc	0203587
ZSPT2Z 295	'Y' wire pendant with ceiling fixture, cyl. 1.5m, 1 pc	0203583
<sup>1)</sup> ZSPT2ZE 190	'Y' wire pendant, rectangular canopy, 1.5m, 1 pc	0207976
<sup>1)</sup> ZSPT2ZE 190 SI	'Y' wire pendant, rectangular canopy silver, 1.5m, 1 pc	0207976SI
<sup>1)</sup> ZSPT2ZE 295	'Y' wire pendant, rectangular canopy white, 1.5m, 1 pc	0202897
<sup>1)</sup> ZSPT2ZE 295 SI	'Y' wire pendant, rect. canopy, silver, 1.5m, 1pc	0202897SI
<sup>1)</sup> ZSPT2ZH 190	'Y' wire pendant, domed canopy, white, 1.5m, 1 pc	0207975
<sup>1)</sup> ZSPT2ZH 190 SI	'Y' wire pendant, domed canopy, silver, 1.5m, 1 pc	0207975SI
<sup>1)</sup> ZSPT2ZH 295	'Y' wire pendant, domed canopy, white, 1.5m, 1 pc	0202896
<sup>1)</sup> ZSPT2ZH 295 SI	'Y' wire pendant, domed canopy, silver, 1.5m, 1 pc	0202896SI

**Note:** One wire or tube pendant must be ordered per suspension point.

<sup>1)</sup> Wire pendant mounting: F-LINE single lamp with ZSPT2Z. 190, dual-lamp with ZSPT2Z. 295, 2 per luminaire

<sup>2)</sup> Wire pendant for luminaire connector F-LINE-VS...



# F-LINE2-R2 ... for RIDI-TUBE lamp (LED)

## F-LINE2-R2 ..., direct beam

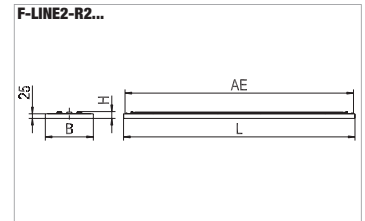
**Design:** Single luminaire designed for pendant mounting with low-profile luminaire housing. Housing with seamless underside, in edged sheet steel, white (similar to RAL9016) or silver (-SI, similar to RAL9006) powder coated. Top of housing with fixing points spaced (35 mm) for variable wire pendant luminaire mounting. With 2 separate light chambers separated by a longitudinal web in the luminaire housing. For RIDI-TUBE lamps (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

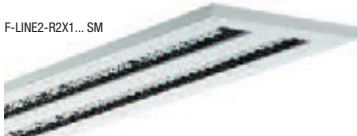
### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

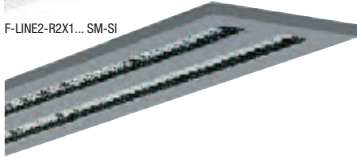
**Mounting:** The luminaires are suitable for ceiling pendant mounting using wire pendants or with accessories for direct ceiling mounting.



F-LINE2-R2X1... SM



F-LINE2-R2X1... SM-SI

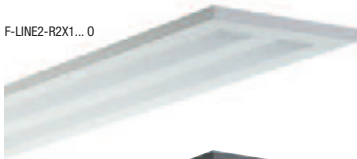


### F-LINE-R ... SM

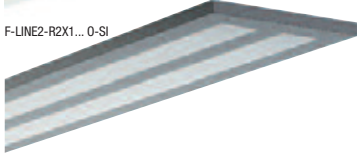
Parabolic mirror louvre SM made of matt super-purity anodised aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
				B	H	AE min	AE max		
F-LINE2-R2X115/30xx-SM	2xR-TUBE 30 W	E, F	1253	260	45	840	1190	0650252	0660252
F-LINE2-R2X115/30xx-SM-SI	2xR-TUBE 30 W	E, F	1253	260	45	840	1190	0650252SI	0660252SI
F-LINE2-R2X145/35xx-SM	2xR-TUBE 35 W	H, I	1553	260	45	1140	1490	0650256	0660256
F-LINE2-R2X145/35xx-SM-SI	2xR-TUBE 35 W	H, I	1553	260	45	1140	1490	0650256SI	0660256SI

F-LINE2-R2X1... 0



F-LINE2-R2X1... 0-SI

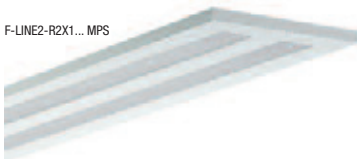


### F-LINE-R ... 0

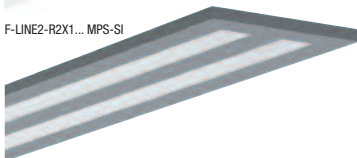
Opal profile cover made of UV-stabilised PMMA with satinised surface. For L-TUBE lamp, recommended cover: clear.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
				B	H	AE min	AE max		
F-LINE2-R2X115/30xx-0	2xR-TUBE 30 W	E, F	1253	260	45	840	1190	0650253	0660253
F-LINE2-R2X115/30xx-0-SI	2xR-TUBE 30 W	E, F	1253	260	45	840	1190	0650253SI	0660253SI
F-LINE2-R2X145/35xx-0	2xR-TUBE 35 W	H, I	1553	260	45	1140	1490	0650257	0660257
F-LINE2-R2X145/35xx-0-SI	2xR-TUBE 35 W	H, I	1553	260	45	1140	1490	0650257SI	0660257SI

F-LINE2-R2X1... MPS



F-LINE2-R2X1... MPS-SI



### F-LINE-R ... MPS

Transparent co-extruded acrylic cover in clear UV-stabilised PMMA, with external microprism structure. Internal longitudinal fins for fixture made of impact-resistant, UV-stabilised PMMA, with opal light-impermeable coloration to prevent unwanted light reflection. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
				B	H	AE min	AE max		
F-LINE2-R2X115/30xx-MPS	2xR-TUBE 30 W	E, F	1253	260	45	840	1190	0650254	0660254
F-LINE2-R2X115/30xx-MPS-SI	2xR-TUBE 30 W	E, F	1253	260	45	840	1190	0650254SI	0660254SI
F-LINE2-R2X145/35xx-MPS	2xR-TUBE 35 W	H, I	1553	260	45	1140	1490	0650258	0660258
F-LINE2-R2X145/35xx-MPS-SI	2xR-TUBE 35 W	H, I	1553	260	45	1140	1490	0650258SI	0660258SI



## Accessories

Model	Description	Prod. code.
F-LINE-VS	Lum. connector f. F-LINE, 100mm, white, pendant m. only, 1 pc	0207971
F-LINE-VS-D	Lum. connector f. F-LINE, 100mm, white, ceiling surface m., 1 pc	0208095
F-LINE-VS-D-SI	Lum. connector f. F-LINE, 100mm, silver, ceiling surface m., 1 pc	0208095SI
F-LINE-VS-SI	Lum. connector f. F-LINE, 100mm, silver, pendant m. only, 1 pc	0207971SI
ZAL 3x1,5/1,5M-T	Clear mains cable, 3x1.5mm <sup>2</sup> , 1.5 metre	0207977
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5x1,5/1,5M-T	Clear mains cable, 5x1.5mm <sup>2</sup> , 1.5 metre	0207978
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZIDV-F-LINE 28/3/1,5	Through wiring F-LINE .28, 3x1.5mm <sup>2</sup> , L=1.7m, max.10A	0201255
ZIDV-F-LINE 28/5/1,5 DIM	Through wiring F-LINE .28, 5x1.5mm <sup>2</sup> , L=1.7m, max.10A	0201256
ZIDV-F-LINE 35/3/1,5	Through wiring F-LINE .35, 3x1.5mm <sup>2</sup> , L=2.0m, max.10A	0201253
ZIDV-F-LINE 35/5/1,5 DIM	Through wiring F-LINE .35, 5x1.5mm <sup>2</sup> , L=2.0m, max.10A	0201254
ZKF 3X0,75/1,0M	Cable guide C-profile, for dia. 4-5mm, 1 metre, transparent	0207979
ZRO	Frame opener	0204003
<sup>1)</sup> ZSPT2Z 295	Y' wire pendant with ceiling fixture, cyl. 1.5m, 1 pc	0203583
<sup>1)</sup> ZSPT2ZE 295	Y' wire pendant, rectangular canopy white, 1.5m, 1 pc	0202897
<sup>1)</sup> ZSPT2ZE 295 SI	Y' wire pendant, rect. canopy, silver, 1.5m, 1pc	0202897SI
<sup>1)</sup> ZSPT2ZH 295	Y' wire pendant, domed canopy, white, 1.5m, 1 pc	0202896
<sup>1)</sup> ZSPT2ZH 295 SI	Y' wire pendant, domed canopy, silver, 1.5m, 1 pc	0202896SI

**Note:** One wire or tube pendant must be ordered per suspension point.

<sup>1)</sup> Wire pendant mounting: F-LINE single lamp with ZSPT2Z. 190, dual-lamp with ZSPT2Z. 295, 2 per luminaire



# F-LINE-R3 ... for RIDI-TUBE lamp (LED)

## F-LINE-R3 ..., direct-indirect beam

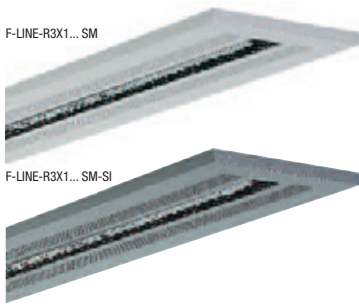
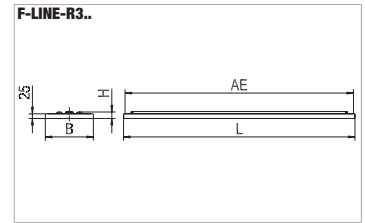
**Design:** Single luminaire designed for pendant mounting with low-profile luminaire housing. Housing with seamless underside, in edged sheet steel, white (similar to RAL9016) or silver (-SI, similar to RAL9006) powder coated. Top of housing with fixing points spaced (35 mm) for variable wire pendant luminaire mounting. With 1 lamp for direct light component and 2 lamps for indirect light component. Perforated luminaire housing on both sides next to the direct light component, lined with a light filter and backlit. For RIDI-TUBE lamps (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

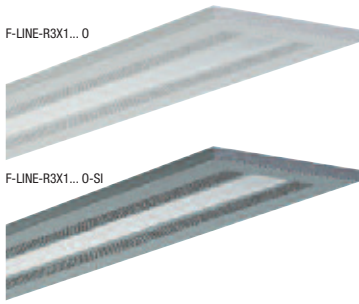
**Mounting:** The luminaires are suitable for ceiling pendant mounting using wire pendants.



### F-LINE-R ... SM

Parabolic mirror louvre SM made of silk matt super-purity anodised aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.

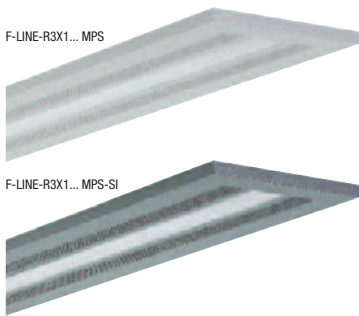
Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
				B	H	AE min	AE max		
F-LINE-R3X115/30xx-SM	3xR-TUBE 30 W	E, F	1253	260	45	840	1190	0650212	0660212
F-LINE-R3X115/30xx-SM-SI	3xR-TUBE 30 W	E, F	1253	260	45	840	1190	0650212SI	0660212SI
F-LINE-R3X145/35xx-SM	3xR-TUBE 35 W	H, I	1553	260	45	1140	1490	0650213	0660213
F-LINE-R3X145/35xx-SM-SI	3xR-TUBE 35 W	H, I	1553	260	45	1140	1490	0650213SI	0660213SI



### F-LINE-R ... 0

Opal profile cover made of UV-stabilised PMMA with satinised surface. For L-TUBE lamp, recommended cover: clear.

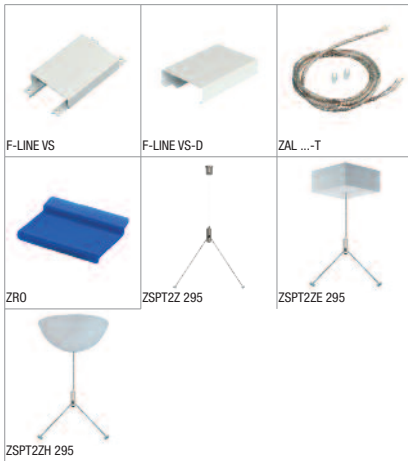
Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
				B	H	AE min	AE max		
F-LINE-R3X115/30xx-0	3xR-TUBE 30 W	E, F	1253	260	45	840	1190	0650260	0660260
F-LINE-R3X115/30xx-0-SI	3xR-TUBE 30 W	E, F	1253	260	45	840	1190	0650260SI	0660260SI
F-LINE-R3X145/35xx-0	3xR-TUBE 35 W	H, I	1553	260	45	1140	1490	0650264	0660264
F-LINE-R3X145/35xx-0-SI	3xR-TUBE 35 W	H, I	1553	260	45	1140	1490	0650264SI	0660264SI



### F-LINE-R ... MPS

Transparent co-extruded acrylic cover in clear UV-stabilised PMMA, with external microprism structure. Internal longitudinal fins for fixture made of impact-resistant, UV-stabilised PMMA, with opal light-impermeable coloration to prevent unwanted light reflection. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
				B	H	AE min	AE max		
F-LINE-R3X115/30xx-MPS	3xR-TUBE 30 W	E, F	1253	260	45	840	1190	0650261	0660261
F-LINE-R3X115/30xx-MPS-SI	3xR-TUBE 30 W	E, F	1253	260	45	840	1190	0650261SI	0660261SI
F-LINE-R3X145/35xx-MPS	3xR-TUBE 35 W	H, I	1553	260	45	1140	1490	0650265	0660265
F-LINE-R3X145/35xx-MPS-SI	3xR-TUBE 35 W	H, I	1553	260	45	1140	1490	0650265SI	0660265SI



## Accessories

Model	Description	Prod. code.
F-LINE-VS	Lum. connector f. F-LINE, 100mm, white, pendant m. only, 1 pc	0207971
F-LINE-VS-D	Lum. connector f. F-LINE, 100mm, white, ceiling surface m., 1 pc	0208095
F-LINE-VS-D-SI	Lum. connector f. F-LINE, 100mm, silver, ceiling surface m., 1 pc	0208095SI
F-LINE-VS-SI	Lum. connector f. F-LINE, 100mm, silver, pendant m. only, 1 pc	0207971SI
ZAL 3x1,5/1,5M-T	Clear mains cable, 3x1.5mm <sup>2</sup> , 1.5 metre	0207977
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5x1,5/1,5M-T	Clear mains cable, 5x1.5mm <sup>2</sup> , 1.5 metre	0207978
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZIDV-F-LINE 28/3/1,5	Through wiring F-LINE .28, 3x1.5mm <sup>2</sup> , L=1.7m, max.10A	0201255
ZIDV-F-LINE 28/5/1,5 DIM	Through wiring F-LINE .28, 5x1.5mm <sup>2</sup> , L=1.7m, max.10A	0201256
ZIDV-F-LINE 35/3/1,5	Through wiring F-LINE .35, 3x1.5mm <sup>2</sup> , L=2.0m, max.10A	0201253
ZIDV-F-LINE 35/5/1,5 DIM	Through wiring F-LINE .35, 5x1.5mm <sup>2</sup> , L=2.0m, max.10A	0201254
ZKF 3X0,75/1,0M	Cable guide C-profile, for dia. 4-5mm, 1 metre, transparent	0207979
ZRO	Frame opener	0204003
<sup>1)</sup> ZSPT2Z 295	Y' wire pendant with ceiling fixture, cyl. 1.5m, 1 pc	0203583
<sup>1)</sup> ZSPT2ZE 295	Y' wire pendant, rectangular canopy white, 1.5m, 1 pc	0202897
<sup>1)</sup> ZSPT2ZE 295 SI	Y' wire pendant, rect. canopy, silver, 1.5m, 1pc	0202897SI
<sup>1)</sup> ZSPT2ZH 295	Y' wire pendant, domed canopy, white, 1.5m, 1 pc	0202896
<sup>1)</sup> ZSPT2ZH 295 SI	Y' wire pendant, domed canopy, silver, 1.5m, 1 pc	0202896SI

**Note:** One wire or tube pendant must be ordered per suspension point.

<sup>1)</sup> Wire pendant mounting: F-LINE single lamp with ZSPT2Z. 190, dual-lamp with ZSPT2Z. 295, 2 per luminaire



# F-LINE-R3X055 for RIDI-TUBE lamp (LED)

## F-LINE-R3X055, direct beam

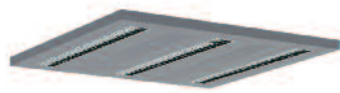
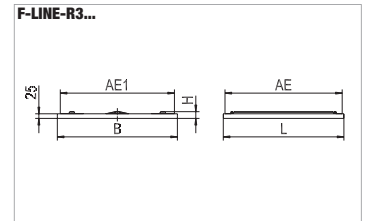
**Design:** Single luminaire designed for pendant mounting with low-profile luminaire housing. Housing with seamless underside, in edged sheet steel, white (similar to RAL9016) or silver (-SI, similar to RAL9006) powder coated. For RIDI-TUBE lamps (order separately). With 3 separate light chambers separated by longitudinal webs in the luminaire housing. 2 perforated strips in the luminaire housing between the direct light components, lined with a light filter and backlit.

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

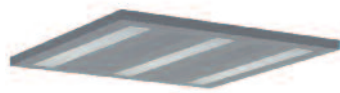
**Mounting:** The luminaires are suitable for ceiling pendant mounting using wire pendants or with accessories for direct ceiling mounting.



### F-LINE-R ... SM

Parabolic mirror louvre SM made of matt super-purity anodised aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.

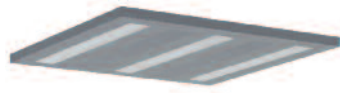
Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
				B	H	AE min	AE max		
F-LINE-R3X055/10xx-SM	3xR-TUBE 10 W	A	653	650	45	570	610	0650268	0660268
F-LINE-R3X055/10xx-SM-SI	3xR-TUBE 10 W	A	653	650	45	570	610	0650268SI	0660268SI



### F-LINE-R ... 0

Opal profile cover made of UV-stabilised PMMA with satinised surface. For L-TUBE lamp, recommended cover: clear.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
				B	H	AE min	AE max		
F-LINE-R3X055/10xx-0	3xR-TUBE 10 W	A	653	650	45	570	610	0650270	0660270
F-LINE-R3X055/10xx-0-SI	3xR-TUBE 10 W	A	653	650	45	570	610	0650270SI	0660270SI



### F-LINE-R ... MPS

Transparent co-extruded acrylic cover in clear UV-stabilised PMMA, with external microprism structure. Internal longitudinal fins for fixture made of impact-resistant, UV-stabilised PMMA, with opal light-impermeable coloration to prevent unwanted light reflection. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
				B	H	AE min	AE max		
F-LINE-R3X055/10xx-MPS	3xR-TUBE 10 W	A	653	650	45	570	610	0650269	0660269
F-LINE-R3X055/10xx-MPS-SI	3xR-TUBE 10 W	A	653	650	45	570	610	0650269SI	0660269SI



## Accessories

Model	Description	Prod. code.
ZAL 3X1,5/1,5M-T	Clear mains cable, 3x1.5mm <sup>2</sup> , 1.5 metre	0207977
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5X1,5/1,5M-T	Clear mains cable, 5x1.5mm <sup>2</sup> , 1.5 metre	0207978
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZKF 3X0,75/1,0M	Cable guide C-profile, for dia. 4-5mm, 1 metre, transparent	0207979
ZSP	Wire pendant, ceiling fixture, wire clamp. 1.5m, 1 set = 2pc	0205017
ZSPS	Wire pendant, ceiling fixture, wire clamp man., 1.5m, 1set=2pc	0205018

**Note:** One wire or tube pendant must be ordered per suspension point.

**F-LINE-R4X055, direct beam**

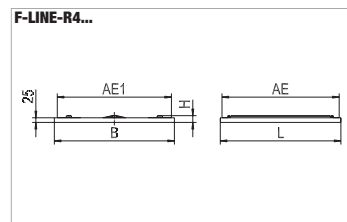
**Design:** Single luminaire designed for pendant mounting with low-profile luminaire housing. Housing with seamless underside, in edged sheet steel, white (similar to RAL9016) or silver (-SI, similar to RAL9006) powder coated. For RIDI-TUBE lamps (order separately). With 2 separate light chambers separated by a longitudinal web in the luminaire housing. 2 perforated strips in the luminaire housing between the direct light components, lined with a light filter and backlit.

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

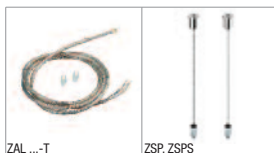
**Mounting:** The luminaires are suitable for ceiling pendant mounting using wire pendants or with accessories for direct ceiling mounting.



**F-LINE-R ... SM**

Parabolic mirror louvre SM made of matt super-purity anodised aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]				el. conv. xx-ND Prod. code.	dim. conv. DALI xx-DA Prod. code.
			L	B	H	AE min AE max		
F-LINE-R4X055/15xx-SM	4xR-TUBE 15 W	B	653	650	45	570 610	0650272	0660272
F-LINE-R4X055/15xx-SM-SI	4xR-TUBE 15 W	B	653	650	45	570 610	0650272SI	0660272SI



**Accessories**

Model	Description	Prod. code.
ZAL 3X1,5/1,5M-T	Clear mains cable, 3x1.5mm <sup>2</sup> , 1.5 metre	0207977
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5X1,5/1,5M-T	Clear mains cable, 5x1.5mm <sup>2</sup> , 1.5 metre	0207978
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZKF 3X0,75/1,0M	Cable guide C-profile, for dia. 4-5mm, 1 metre, transparent	0207979
ZSP	Wire pendant, ceiling fixture, wire clamp, 1.5m, 1 set = 2pc	0205017
ZSPS	Wire pendant, ceiling fixture, wire clamp man., 1.5m, 1set=2pc	0205018

**Note:** One wire or tube pendant must be ordered per suspension point.



# Pendant luminaire F-LINE-RT

## Pendant luminaire F-LINE-RT1 ... / -RT2 ..., direct-indirect beam, for LED lamp RIDI-TUBE 360

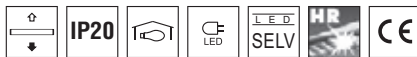
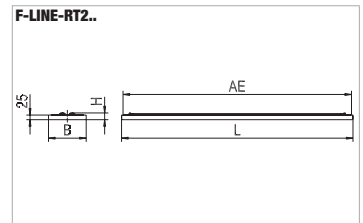
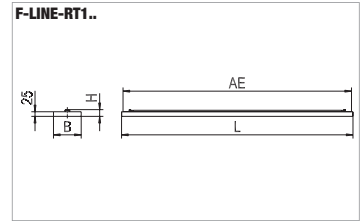
**Design:** Single LED luminaire for pendant mounting with very low-profile luminaire housing. Housing with seamless underside, in sheet steel, white powder coated (similar to RAL9016). Cover panel to the top of the luminaire with large openings for the indirect component. Housing top with fixing openings for variable step-by-step (35mm) luminaire fixture on the longitudinal side with wire pendants. For RIDI-TUBE 360 lamps (order separately), almost 360° emission.

**Lampholder system:** Lamp base system RIDI-TUBE with electrical and mechanical interface, polarity reversal proof. Toolless lamp change twist-clip mechanism, corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base. Automatic adjustment of the precise required electrical current with the newly developed lamp base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** The luminaires are equipped with accessories for pendant installation with wire suspension. Wire suspension, length 1.5 metres ZSPT2Z 190 for F-LINE-RT1..., or ZSPT2Z 295 for F-LINE-RT2... to be ordered separately (see accessories). Power supply cable, length 1.5 metres with transparent cover, to be ordered separately (see accessories). Continuous-row installation with accessories F-LINE-VS luminaire connector possible.



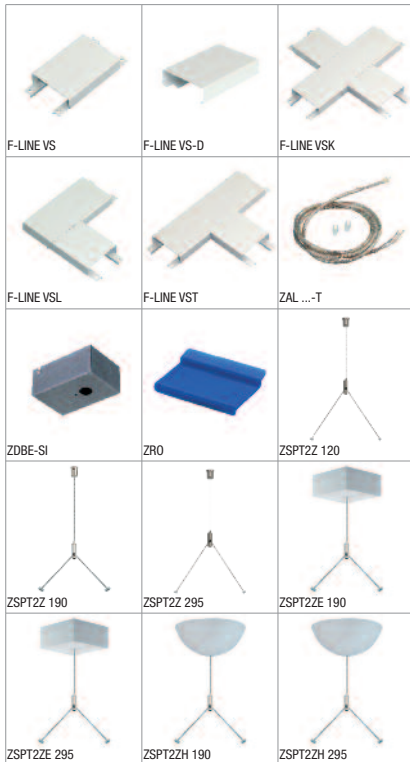
acc. to DIN EN 60598/VDE 0711



### F-LINE-RT ... SM

Parabolic mirror louvre SM in silk matt anodised super-purity aluminium with silver coating. For RIDI-TUBE 360 lamp (order separately), recommended cover: matt.

Model	Lamps	passende RT360	Dimens. [mm]					el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
			L	B	H	AE min	AE max		
F-LINE-RT1X115/20xx-SM	1xRT360 20 W	115mm/18W	1253	150	37	840	1190	0650580	0660580
F-LINE-RT1X145/30xx-SM	1xRT360 30 W	145mm/22W, 28W	1553	150	37	1140	1490	0650582	0660582
F-LINE-RT1X145/40xx-SM	1xRT360 40 W	145mm/22W, 28W, 37W	1553	150	37	1140	1490	0650588	0660588
F-LINE-RT2X115/20xx-SM	2xRT360 20 W	115mm/18W	1253	204	37	840	1190	0650581	0660581
F-LINE-RT2X145/30xx-SM	2xRT360 30 W	145mm/22W, 28W	1553	204	37	1140	1490	0650583	0660583



### Accessories

Model	Description	Prod. code.
F-LINE-VS	Lum. connector f. F-LINE, 100mm, white, pendant m. only, 1 pc	0207971
F-LINE-VS-D	Lum. connector f. F-LINE, 100mm, white, ceiling surface m., 1 pc	0208095
F-LINE-VS-SI	Lum. connector f. F-LINE, 100mm, silver, ceiling surface m., 1 pc	0208095SI
F-LINE-VSK	Lum. connector f. F-LINE, 100mm, silver, pendant m. only, 1 pc	0207971SI
F-LINE-VSK 1./2..	X-sh. lum. connector f. F-LINE, white, pendant m. only	0207974
F-LINE-VSK 1./2.. SI	X-sh. lum. connector f. F-LINE, silver, pendant m. only	0207974SI
F-LINE-VSL 1./2..	L-sh. lum. connector f. F-LINE, white, pendant m. only	0207972
F-LINE-VSL 1./2.. SI	L-sh. lum. connector f. F-LINE, silver, pendant m. only	0207972SI
F-LINE-VST 1./2..	T-sh. lum. connector f. F-LINE, white, pendant m. only	0207973
F-LINE-VST 1./2.. SI	T-sh. lum. connector f. F-LINE, silver, pendant m. only	0207973SI
ZAL 3X1,5/1,5M-T	Clear mains cable, 3x1.5mm <sup>2</sup> , 1.5 metre	0207977
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5X1,5/1,5M-T	Clear mains cable, 5x1.5mm <sup>2</sup> , 1.5 metre	0207978
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZDBE-SI	Rect. canopy silver, for Y wire pendant, ZUSP and UKNS	0204332SI
ZIDV-F-LINE 28/3/1,5	Through wiring F-LINE .28, 3x1.5mm <sup>2</sup> , L=1.7m, max.10A	0201255
ZIDV-F-LINE 28/5/1,5 DIM	Through wiring F-LINE .28, 5x1.5mm <sup>2</sup> , L=1.7m, max.10A	0201256
ZIDV-F-LINE 35/3/1,5	Through wiring F-LINE .35, 3x1.5mm <sup>2</sup> , L=2.0m, max.10A	0201253
ZIDV-F-LINE 35/5/1,5 DIM	Through wiring F-LINE .35, 5x1.5mm <sup>2</sup> , L=2.0m, max.10A	0201254
ZKF 3X0,75/1,0M	Cable guide C-profile, for dia. 4-5mm, 1 metre, transparent	0207979
ZRO	Frame opener	0204003
ZSPT2Z 120	Y <sup>1)</sup> wire pendant with ceiling fixture, cyl. 1.5 m, 1 pc	0203582
ZSPT2Z 190	Y <sup>1)</sup> wire pendant with ceiling fixture, cyl. 1.5m, 1 pc	0203587
ZSPT2Z 295	Y <sup>1)</sup> wire pendant with ceiling fixture, cyl. 1.5m, 1 pc	0203583
ZSPT2ZE 190	Y <sup>1)</sup> wire pendant, rectangular canopy, 1.5m, 1 pc	0207976
ZSPT2ZE 190 SI	Y <sup>1)</sup> wire pendant, rectangular canopy silver, 1.5m, 1 pc	0207976SI
ZSPT2ZE 295	Y <sup>1)</sup> wire pendant, rectangular canopy white, 1.5m, 1 pc	0202897
ZSPT2ZE 295 SI	Y <sup>1)</sup> wire pendant, rect. canopy, silver, 1.5m, 1pc	0202897SI
ZSPT2ZH 190	Y <sup>1)</sup> wire pendant, domed canopy, white, 1.5m, 1 pc	0207975
ZSPT2ZH 190 SI	Y <sup>1)</sup> wire pendant, domed canopy, silver, 1.5m, 1 pc	0207975SI
ZSPT2ZH 295	Y <sup>1)</sup> wire pendant, domed canopy, white, 1.5m, 1 pc	0202896
ZSPT2ZH 295 SI	Y <sup>1)</sup> wire pendant, domed canopy, silver, 1.5m, 1 pc	0202896SI

<sup>1)</sup> Wire pendant mounting: F-LINE single lamp with ZSPT2Z. 190, dual-lamp with ZSPT2Z. 295, 2 per luminaire

<sup>2)</sup> Wire pendant for luminaire connector F-LINE-VS...

### RIDI-TUBE 360 lamps: (further information from page 16)

Model	Dimens. [mm]	L	Louvres	Wattage	Current [A]	Energy consumption [kWh/1000h]	Luminous colour 865				Luminous colour 840				Luminous colour 830			
							Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code
RT360 115/18W	1150		matt	18 W	0,65	20	3000	163	A++	0206934GF	3000	163	A++	0206933GF	2800	156	A++	0206932GF
RT360 145/22W	1450		matt	22 W	0,65	24	3600	165	A++	0206944GF	3600	165	A++	0206943GF	3400	158	A++	0206942GF
RT360 145/28W	1450		matt	28 W	0,83	31	4500	161	A++	0206953GF	4500	161	A++	0206952GF	4300	154	A++	0206951GF
RT360 145/37W	1450		matt	37 W	1,08	41	5800	156	A++	0206982GF	5800	156	A++	0206981GF	5500	149	A++	0206980GF



**Pendant luminaire F-LINE-RT1 ... / -RT2 ... SET, direct-indirect beam, incl. LED lamp RIDI-TUBE 360**

**Design:** Single LED luminaire for pendant mounting with very low-profile luminaire housing. Housing with seamless underside, in sheet steel, white powder coated (similar to RAL9016). Cover panel to the top of the luminaire with large openings for the indirect component. Housing top with fixing openings for variable step-by-step (35mm) luminaire fixture on the longitudinal side with wire pendants. Lamp: RIDI-TUBE 360, matt, almost 360° emission.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

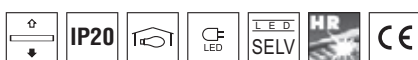
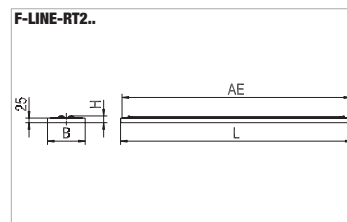
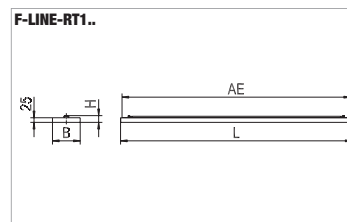
**Lampholder system:** Lamp base system RIDI-TUBE with electrical and mechanical interface, polarity reversal proof. Toolless lamp change twist-clip mechanism, corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base. Automatic adjustment of the precise required electrical current with the newly developed lamp base.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** The luminaires are suitable for pendant mounting using a wire pendant. Inclusive of wire pendant, length 1.5 m ZSPT2Z 190 for F-LINE-RT1... or ZSPT2Z 295 for F-LINE-RT2...

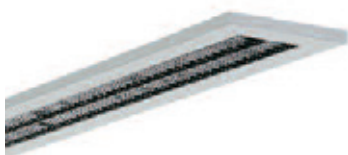
Prefitted mains supply cable, length 1.5 m with transparent sheathing. Continuous mounting possible with luminaire connector accessory F-LINE-VS.



acc. to DIN EN 60598/VDE 0711

**F-LINE-RT ... SM**

Parabolic mirror louvre SM in silk matt anodised super-purity aluminium with silver coating. Including lamp RIDI-TUBE 360, matt.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]				el. conv. Prod. code.	dim. conv. DALI Prod. code.
							B	H	AE min	AE max		
F-LINE-RT1X115/20XX-SM-SET	1xRT360 20 W	2616	21	124	840	1253	150	37	840	1190	0650580//673683	0660580//673683
F-LINE-RT1X115/20XX-SM-SET SI	1xRT360 20 W	2616	21	124	840	1253	150	37	840	1190	0650580SI673683	0660580SI673683
F-LINE-RT1X145/25XX-SM-SET	1xRT360 25 W	3139	25	125	840	1553	150	37	1140	1490	0650582//673683	0660582//673683
F-LINE-RT1X145/25XX-SM-SET SI	1xRT360 25 W	3139	25	125	840	1553	150	37	1140	1490	0650582SI673683	0660582SI673683
F-LINE-RT1X145/30XX-SM-SET	1xRT360 30 W	3924	32	122	840	1553	150	37	1140	1490	0650582//676683	0660582//676683
F-LINE-RT1X145/30XX-SM-SET SI	1xRT360 30 W	3924	32	122	840	1553	150	37	1140	1490	0650582SI676683	0660582SI676683
F-LINE-RT2X115/20XX-SM-SET	2xRT360 20 W	5232	42	124	840	1253	204	37	840	1190	0650581//673683	0660581//673683
F-LINE-RT2X115/20XX-SM-SET SI	2xRT360 20 W	5232	42	124	840	1253	204	37	840	1190	0650581SI673683	0660581SI673683
F-LINE-RT2X145/25XX-SM-SET	2xRT360 25 W	6358	50	127	840	1553	204	37	1140	1490	0650583//673683	0660583//673683
F-LINE-RT2X145/25XX-SM-SET SI	2xRT360 25 W	6358	50	127	840	1553	204	37	1140	1490	0650583SI673683	0660583SI673683
F-LINE-RT2X145/30XX-SM-SET	2xRT360 30 W	7947	64	124	840	1553	204	37	1140	1490	0650583//676683	0660583//676683
F-LINE-RT2X145/30XX-SM-SET SI	2xRT360 30 W	7947	64	124	840	1553	204	37	1140	1490	0650583SI676683	0660583SI676683

## F-LINE-LF ... A

### F-LINE-LF ... A with asymmetric light distribution

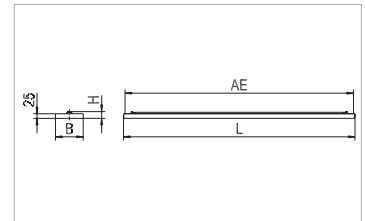
**Design:** Single luminaire designed for ceiling or pendant mounting with low-profile luminaire housing. Includes RIDI LED lamp L-TUBE-F. Housing with seamless underside, in edged sheet steel, white (similar to RAL9016) or silver (similar to RAL9006) powder coated. Top of housing with fixing points spaced (35 mm) for variable wire pendant mounting.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

#### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** The luminaires are suitable for ceiling pendant mounting using wire pendants or with accessories for direct ceiling mounting. Wire pendant mounting with ZSPT2Z 190.



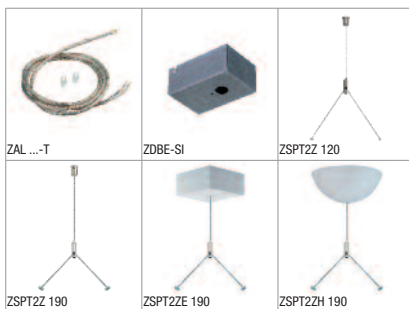
acc. to DIN EN 60598/VDE 0711



#### F-LINE-LF ... A

Asymmetric beam optics extruded from impact-resistant UV-stabilised PMMA. Prismatic structure inside, outside smooth.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]			el. conv. Prod. code.	dim. conv. DALI Prod. code.	
							B	H	AE			
F-LINE-LF 128/289A840	1xL-TUBE-F 20 W	2026	23	88	840	1253	175	50	840	1190	0627427	0637427
F-LINE-LF 128/289A840 SI	1xL-TUBE-F 20 W	2026	23	88	840	1253	175	50	840	1190	0627427SI	0637427SI
F-LINE-LF 135/368A840	1xL-TUBE-F 24 W	2580	28	92	840	1553	175	50	1140	1490	0627429	0637429
F-LINE-LF 135/368A840 SI	1xL-TUBE-F 24 W	2580	28	92	840	1553	175	50	1140	1490	0627429SI	0637429SI
F-LINE-LF 149/475A840	1xL-TUBE-F 29 W	3330	34	97	840	1553	175	50	1140	1490	0627430	0637430
F-LINE-LF 149/475A840 SI	1xL-TUBE-F 29 W	3330	34	97	840	1553	175	50	1140	1490	0627430SI	0637430SI
F-LINE-LF 154/433A840	1xL-TUBE-F 30 W	3035	35	86	840	1253	175	50	840	1190	0627428	0637428
F-LINE-LF 154/433A840 SI	1xL-TUBE-F 30 W	3035	35	86	840	1253	175	50	840	1190	0627428SI	0637428SI
F-LINE-LF 180/686A840	1xL-TUBE-F 41 W	4809	52	92	840	1553	175	50	1140	1490	0627431	0637431
F-LINE-LF 180/686A840 SI	1xL-TUBE-F 41 W	4809	52	92	840	1553	175	50	1140	1490	0627431SI	0637431SI



### Accessories

Model	Description	Prod. code.
ZAL 3X1,5/1,5M-T	Clear mains cable, 3x1.5mm <sup>2</sup> , 1.5 metre	0207977
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5X1,5/1,5M-T	Clear mains cable, 5x1.5mm <sup>2</sup> , 1.5 metre	0207978
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZDBE-SI	Rect. canopy silver, for Y wire pendant, ZUSP and UKNS	0204332SI
ZIDV-F-LINE 28/3/1,5	Through wiring F-LINE .28, 3x1.5mm <sup>2</sup> , L=1.7m, max.10A	0201255
ZIDV-F-LINE 28/5/1,5 DIM	Through wiring F-LINE .28, 5x1.5mm <sup>2</sup> , L=1.7m, max.10A	0201256
ZIDV-F-LINE 35/3/1,5	Through wiring F-LINE .35, 3x1.5mm <sup>2</sup> , L=2.0m, max.10A	0201253
ZIDV-F-LINE 35/5/1,5 DIM	Through wiring F-LINE .35, 5x1.5mm <sup>2</sup> , L=2.0m, max.10A	0201254
ZKF 3X0,75/1,0M	Cable guide C-profile, for dia. 4-5mm, 1 metre, transparent	0207979
<sup>2)</sup> ZSPT2Z 120	'Y' wire pendant with ceiling fixture, cyl. 1.5 m, 1 pc	0203582
<sup>1)</sup> ZSPT2Z 190	'Y' wire pendant with ceiling fixture, cyl. 1.5m, 1 pc	0203587
<sup>1)</sup> ZSPT2ZE 190	'Y' wire pendant, rectangular canopy, 1.5m, 1 pc	0207976
<sup>1)</sup> ZSPT2ZE 190 SI	'Y' wire pendant, rectangular canopy silver, 1.5m, 1 pc	0207976SI
<sup>1)</sup> ZSPT2ZH 190	'Y' wire pendant, domed canopy, white, 1.5m, 1 pc	0207975
<sup>1)</sup> ZSPT2ZH 190 SI	'Y' wire pendant, domed canopy, silver, 1.5m, 1 pc	0207975SI

**Note:** One wire or tube pendant must be ordered per suspension point.

<sup>1)</sup> Wire pendant mounting: F-LINE single lamp with ZSPT2Z. 190, dual-lamp with ZSPT2Z. 295, 2 per luminaire

<sup>2)</sup> Wire pendant for luminaire connector F-LINE-VS...

## Surface-mounted luminaire series AIDA-R2../P-R2.., direct-indirect beam

**Design:** Single pendant luminaire, indirect beam, steel housing, rounded shape, with reset welded-in end caps, powder coated in white (similar to RAL9016) or silver (-SI, similar to RAL9006). Patented quick-release catches for continuous mounting using connectors.

For RIDI-TUBE lamps (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal.

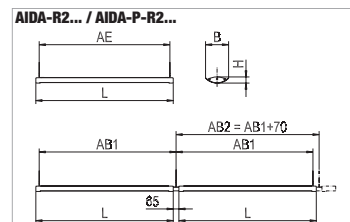
Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Wire pendant mounting and continuous mounting using suitable fixing kits / connectors.

**Junction points:** Junctions are available for creating continuous lighting system configurations (see accessories)



acc. to DIN EN 60598/VDE 0711



### AIDA-R2...

Smooth closed underside of luminaire. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]					el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
			L	B	H	AE	AB1		
AIDA-R2X115/30xx-SI	2xR-TUBE 30 W	E, F	1280	265	70	1203	1274	0650354SI	0660354SI
AIDA-R2X145/35xx-SI	2xR-TUBE 35 W	H, I	1580	265	70	1503	1574	0650355SI	0660355SI



### AIDA-P-R2...

On the longitudinal side, 2 parallel perforated areas with offset round perforation. Perforation lined with a UV-stabilised light filter made of opal PMMA and backlit. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]					el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
			L	B	H	AE	AB1		
AIDA-P-R2X115/30xx-SI	2xR-TUBE 30 W	E, F	1280	265	70	1203	1274	0650356SI	0660356SI
AIDA-P-R2X145/35xx-SI	2xR-TUBE 35 W	H, I	1580	265	70	1503	1574	0650357SI	0660357SI

## Accessories



Model	Description	Prod. code.
10-003	Wire pendant, canopy D100xH50, white, wire end, 1.5m, 1 pc	0210003
10-003 SI	Wire pendant, canopy D100xH50, silver, wire end, 1.5m, 1pc	0210003SI
10-005	Connector for AIDA, colour: white, 1pc.	0210005
10-005 SI	Connector for AIDA, colour silver, 1 pc	0210005SI
10-943	4 point wire pendant, ceiling fixture, L=1.5m, 1 pc	0210943
DAD	White ceiling outlet box for power supply, 3 x 1.5 mm <sup>2</sup> , D70 x H24	0201636
DAD-SI	Ceiling outlet box, silver, f. mains cable 3x1.5mm <sup>2</sup> , D70xH24	0201636SI
UKN	Universal junction, D=120, H=60, white 1 pc	0203253
UKN-SI	Universal junction D=120, H=60, silver, 1 pc.	0203253SI
UKNA-AIDA 3..	Univ. junction adapter f. AIDA 3., dist.=240, white, TW	0203258
UKNA-AIDA 3.. SI	Univ. junction adapter AIDA 3., distance=240, silver, w. through wiring	0203258SI
UKND	Ceiling fixing kit for UKN	0208105
UKNS	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0210958
UKNSB	Wire pendant w. domed canopy, white, wire clamp, 1.5m, 1 pc	0210959
UKNSB-SI	Wire pendant with domed canopy, silver, wire clamp, 1.5m, 1pc	0210959SI
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZSPT	Y' wire pendant w. ceiling fixture, wire ends, 1.5m, 1 pc	0203520
ZWL 3x1,5/1M	White spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 1.0 metre	0200805
ZWL 3x1,5/1M-SW	Black spiral cable, 3 x 1.5 mm <sup>2</sup> , L=1.0 metre	0203251
ZWL 3x1,5/2M	White spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 2.0 metres	0201543
ZWL 3x1,5/2M-SW	Black spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 2.0 metres	0203252

**Note:** One wire or tube pendant must be ordered per suspension point.

# AIDA-R3.. for RIDI-TUBE lamp (LED)

## Surface-mounted luminaire series AIDA-R3.., direct-indirect beam

**Design:** Single luminaire, direct-indirect distribution, steel housing with welded-in inset end caps, powder coated in white (similar to RAL9016) or silver (-SI, similar to RAL9006). Patented quick-release catches for continuous mounting using connectors. The louvre hinges down on both sides and is independently earthed for electrical safety. Separate switching possible for direct (one-lamp) and indirect (two-lamp) light distribution. For RIDI-TUBE lamps (order separately).

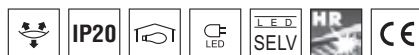
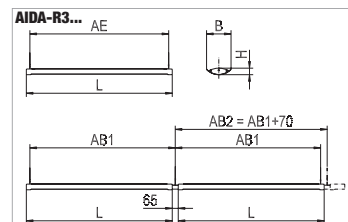
**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Wire pendant mounting and continuous mounting using suitable fixing kits (see accessories).

**Junction points:** Junctions are available for creating continuous lighting system configurations (see accessories)



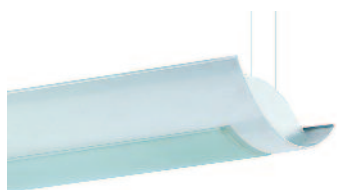
acc. to DIN EN 60598/VDE 0711



### AIDA-R3.. SM

Parabolic mirror louvre SM made of high-reflectance matt anodised super-purity aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			AE	AB1	el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
AIDA-R3X115/30xx-SM	3xR-TUBE 30 W	E, F	1280	265	70	1203	1274	0650365	0660365	
AIDA-R3X115/30xx-SM-SI	3xR-TUBE 30 W	E, F	1280	265	70	1203	1274	0650365SI	0660365SI	
AIDA-R3X145/35xx-SM	3xR-TUBE 35 W	H, I	1580	265	70	1503	1574	0650369	0660369	
AIDA-R3X145/35xx-SM-SI	3xR-TUBE 35 W	H, I	1580	265	70	1503	1574	0650369SI	0660369SI	



### AIDA-R3.. P

Diffuser in PMMA with internal longitudinal prisms. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			AE	AB1	el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
AIDA-R3X115/30xx-P	3xR-TUBE 30 W	E, F	1280	265	70	1203	1274	0650367	0660367	
AIDA-R3X115/30xx-P-SI	3xR-TUBE 30 W	E, F	1280	265	70	1203	1274	0650367SI	0660367SI	
AIDA-R3X145/35xx-P	3xR-TUBE 35 W	H, I	1580	265	70	1503	1574	0650371	0660371	
AIDA-R3X145/35xx-P-SI	3xR-TUBE 35 W	H, I	1580	265	70	1503	1574	0650371SI	0660371SI	

## Accessories



Model	Description	Prod. code.
10-003	Wire pendant, canopy D100xH50, white, wire end, 1.5m, 1 pc	0210003
10-003 SI	Wire pendant, canopy D100xH50, silver, wire end, 1.5m, 1pc	0210003SI
10-005	Connector for AIDA, colour: white, 1pc.	0210005
10-005 SI	Connector for AIDA, colour silver, 1 pc	0210005SI
10-943	4 point wire pendant, ceiling fixture, L=1.5m, 1 pc	0210943
DAD	White ceiling outlet box for power supply, 3 x 1.5 mm <sup>2</sup> , D70 x H24	0201636
DAD-SI	Ceiling outlet box, silver, f. mains cable 3x1.5mm <sup>2</sup> , D70xH24	0201636SI
UKN	Universal junction, D=120, H=60, white 1 pc	0203253
UKN-SI	Universal junction D=120, H=60, silver, 1 pc.	0203253SI
UKNA-AIDA 3..	Univ. junction adapter f. AIDA 3.., dist.=240, white, TW	0203258
UKNA-AIDA 3.. SI	Univ. junction adapter AIDA 3.., distance=240, silver, w. through wiring	0203258SI
UKND	Ceiling fixing kit for UKN	0208105
UKNS	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0210958
UKNSB	Wire pendant w. domed canopy, white, wire clamp, 1.5m, 1 pc	0210959
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZSPT	Y' wire pendant w. ceiling fixture, wire ends, 1.5m, 1 pc	0203520
ZWL 3x1,5/1M	White spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 1.0 metre	0200805
ZWL 3x1,5/1M-SW	Black spiral cable, 3 x 1.5 mm <sup>2</sup> , L=1.0 metre	0203251
ZWL 3x1,5/2M	White spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 2.0 metres	0201543
ZWL 3x1,5/2M-SW	Black spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 2.0 metres	0203252

**Note:** One wire or tube pendant must be ordered per suspension point.

## Surface-mounted luminaire series AIDA-P-R3., direct-indirect beam

**Design:** Single luminaire, direct-indirect distribution, steel housing with welded-in inset end caps, partial round offset perforation, white (similar to RAL9016) or silver (-SI, similar to RAL9006) powder coated. Perforations backed by an opal light diffuser made of UV-stabilised PMMA. Separate switching possible for direct (one-lamp) and indirect (two-lamp) light distribution. Patented quick-release catches for continuous mounting using connectors. The louvre hinges down on both sides and is independently earthed for electrical safety. For lamps RIDI-TUBE (order separately).

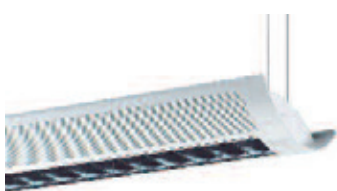
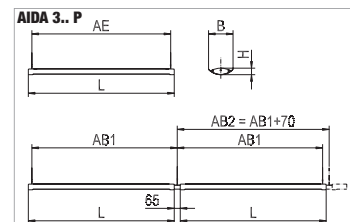
**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Wire pendant mounting and continuous mounting using suitable fixing kits (see accessories).

**Junction points:** Junctions are available for creating continuous lighting system configurations (see accessories)



### AIDA-P-R3.. SM

Parabolic mirror louvre SM made of high-reflectance matt anodised super-purity aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.	
			L	B	H	AE			AB1
AIDA-P-R3X115/30xx-SM	3xR-TUBE 30 W	E, F	1280	265	70	1203	1274	0650373	0660373
AIDA-P-R3X115/30xx-SM-SI	3xR-TUBE 30 W	E, F	1280	265	70	1203	1274	0650373SI	0660373SI
AIDA-P-R3X145/35xx-SM	3xR-TUBE 35 W	H, I	1580	265	70	1503	1574	0650377	0660377
AIDA-P-R3X145/35xx-SM-SI	3xR-TUBE 35 W	H, I	1580	265	70	1503	1574	0650377SI	0660377SI



### AIDA-P-R3.. P

Diffuser in PMMA with internal longitudinal prisms. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.	
			L	B	H	AE			AB1
AIDA-P-R3X115/30xx-P	3xR-TUBE 30 W	E, F	1280	265	70	1203	1274	0650375	0660375
AIDA-P-R3X115/30xx-P-SI	3xR-TUBE 30 W	E, F	1280	265	70	1203	1274	0650375SI	0660375SI
AIDA-P-R3X145/35xx-P	3xR-TUBE 35 W	H, I	1580	265	70	1503	1574	0650379	0660379
AIDA-P-R3X145/35xx-P-SI	3xR-TUBE 35 W	H, I	1580	265	70	1503	1574	0650379SI	0660379SI

## Accessories



Model	Description	Prod. code.
10-003	Wire pendant, canopy D100xH50, white, wire end, 1.5m, 1 pc	0210003
10-003 SI	Wire pendant, canopy D100xH50, silver, wire end, 1.5m, 1pc	0210003SI
10-005	Connector for AIDA, colour: white, 1pc.	0210005
10-005 SI	Connector for AIDA, colour silver, 1 pc	0210005SI
10-943	4 point wire pendant, ceiling fixture, L=1.5m, 1 pc	0210943
DAD	White ceiling outlet box for power supply, 3 x 1.5 mm <sup>2</sup> , D70 x H24	0201636
DAD-SI	Ceiling outlet box, silver, f. mains cable 3x1.5mm <sup>2</sup> , D70xH24	0201636SI
UKN	Universal junction, D=120, H=60, white 1 pc	0203253
UKN-SI	Universal junction D=120, H=60, silver, 1 pc.	0203253SI
UKNA-AIDA 3..	Univ. junction adapter f. AIDA 3., dist.=240, white, TW	0203258
UKNA-AIDA 3.. SI	Univ. junction adapter AIDA 3., distance=240, silver, w. through wiring	0203258SI
UKND	Ceiling fixing kit for UKN	0208105
UKNS	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0210958
UKNSB	Wire pendant w. domed canopy, white, wire clamp, 1.5m, 1 pc	0210959
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZSPT	Y' wire pendant w. ceiling fixture, wire ends, 1.5m, 1 pc	0203520
ZWL 3x1,5/1M	White spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 1.0 metre	0200805
ZWL 3x1,5/1M-SW	Black spiral cable, 3 x 1.5 mm <sup>2</sup> , L=1.0 metre	0203251
ZWL 3x1,5/2M	White spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 2.0 metres	0201543
ZWL 3x1,5/2M-SW	Black spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 2.0 metres	0203252

**Note:** One wire or tube pendant must be ordered per suspension point.

# ALE-R for RIDI-TUBE lamp (LED)

## Surface-mounted luminaire series ALE-R, direct beam

**Design:** Surface mounted luminaire for ceiling or pendant mounting, suitable for continuous mounting. Rigid luminaire housing with extremely scratch resistant white (similar to RAL9016) or silver (-SI, similar to RAL9006) powder coating. With welded-in inset multifunction end pieces for mounting the lampholders and a patented quick release connection facility for the creation of continuous lighting systems as well as for holders for decorative end caps. Louvres with continuous optical effect are used for continuous mounting. The louvre hinges down on both sides and is independently earthed for electrical safety. For RIDI-TUBE lamps (order separately).

**End caps:** Must be ordered separately, see accessories.

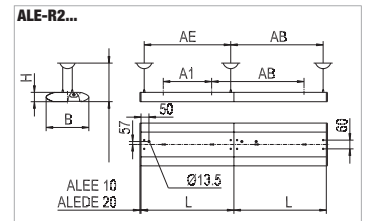
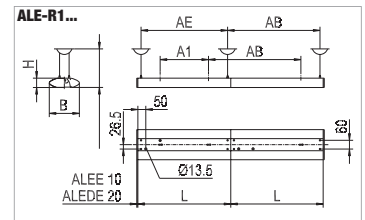
**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** A variety of fixing kits are available for luminaire mounting (see accessories).

**Junction points:** Junctions are available for creating continuous lighting system configurations (see accessories)



ALE-R1 ... SM



ALE-R2 ... SM



**ALE-R ... SM**

Parabolic mirror louvre SM in high-reflectance, silk matt anodised super-purity aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	B	H	Dimens. [mm] A1	AB	AE	el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
ALE-R1X115/30xx-SM	1xR-TUBE 30 W	E, F	1180	189	58	900	1180	1140	0650214	0660214
ALE-R1X115/30xx-SM-SI	1xR-TUBE 30 W	E, F	1180	189	58	900	1180	1140	0650214SI	0660214SI
ALE-R1X145/35xx-SM	1xR-TUBE 35 W	H, I	1480	189	58	1200	1480	1440	0650207	0660207
ALE-R1X145/35xx-SM-SI	1xR-TUBE 35 W	H, I	1480	189	58	1200	1480	1440	0650207SI	0660207SI
ALE-R2X115/30xx-SM	2xR-TUBE 30 W	E, F	1180	275	58	900	1180	1140	0650234	0660234
ALE-R2X145/35xx-SM	2xR-TUBE 35 W	H, I	1480	275	58	1200	1480	1440	0650237	0660237





## Accessories

Model	Description	Prod. code
AG ALE/ABRF 114/124	Counterweight for ALE/ABRF 114/124	0207779
AG ALE/ABRF 128/154	Counterweight for ALE/ABRF 128/154	0207783
AG ALE/ABRF 135/149	Counterweight for ALE/ABRF 135/149	0207784
AG ALE/ABRF 214/224	Counterweight for ALE/ABRF 214/224	0207789
AG ALE/ABRF 228/254	Counterweight for ALE/ABRF 228/254	0207792
AG ALE/ABRF 235/249	Counterweight for ALE/ABRF 235/249	0207793
ALEDB-T16	Ceiling fixing kit 1+2 lamp ALE D=73, H=20, white, 1 pc	0201707
ALEDE 1	Ceiling fixture for ALE 1-1/2-lamp, D=73, H=20, silver, 1 pc.	0201707SI
ALEDE 1-SI	Decorative end cap for 1 lamp ALE, curved, white, 1 pc	0201565
ALEDE 2	Decorative end cap for ALE 1-lamp, curved, silver, 1 pc.	0201565SI
ALEDE 2-SI	Decorative end cap for ALE 2-lamp, curved, silver, 1 pc.	0201566
ALEE 1	Decorative end cap for 1 lamp ALE, flat, white, 1 pc	0201705
ALEE 2	Decorative end cap for 2 lamp ALE, flat, white, 1 pc	0201706
ALEWH 1..	Wall holder for ALE 1-lamp, white, 1 pc	0205059
ALEWH 1..-SI	Wall holder for 1-lamp ALE, silver, 1 pc.	0205059SI
DAD	White ceiling outlet box for power supply, 3 x 1.5 mm <sup>2</sup> , D70 x H24	0201636
DAD-SI	Ceiling outlet box, silver, f. mains cable 3x1.5mm <sup>2</sup> , D70xH24	0201636SI
UKN	Universal junction, D=120, H=60, white 1 pc	0203253
UKN-SI	Universal junction D=120, H=60, silver, 1 pc.	0203253SI
UKNA-ALE 1..	Univ. junction adapter f. ALE 1.., dist.=180, white, through wiring 3x1,5	0203255
UKNA-ALE 1..-SI	Univ. junction adapter ALE 1.., distance=180,silver, 3x1.5 through wiring	0203255SI
UKND	Ceiling fixing kit for UKN	0208105
UKNS	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0210958
UKNSB	Wire pendant w. domed canopy, white, wire clamp, 1.5m, 1 pc	0210959
UKNSB-SI	Wire pendant with domed canopy, silver, wire clamp, 1.5m, 1pc	0210959SI
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZDBE-SI	Rect. canopy silver, for Y wire pendant, ZUSP and UKNS	0204332SI
ZIDV 18/3/1,5	Through wiring T26-18W + T16-14/21W, 3x1.5mm <sup>2</sup> , max.10A	0204845
ZIDV 18/5/1,5	Through wiring T26-18W + T16-14/21W, 5x1.5mm <sup>2</sup> , max.10A	0200554
ZIDV 36/3/1,5	Through wiring T26-36W + T16-28/54W, 3x1.5mm <sup>2</sup> , max.10A	0201201
ZIDV 36/5/1,5	Through wiring T26-36W + T16-28/54W, 5x1.5mm <sup>2</sup> , max.10A	0200254
ZIDV 58/3/1,5	Through wiring T26-58W+T16-35/49/80W, 3x1.5mm <sup>2</sup> , max. 10A	0201202
ZIDV 58/5/1,5	Through wiring T26-58W+T16-35/49/80W,5x1.5mm <sup>2</sup> , max.10A	0200255
ZSP	Wire pendant, ceiling fixture, wire clamp, 1.5m, 1 set = 2pc	0205017
ZSPE	Wire pendant, rect. canopy white, wire clamp, 1.5m, 1 pc	0202867
ZSPE-SI	Wire pendant, rect. canopy silver, wire clamp, 1.5m, 1pc	0202867SI
ZSPES	Wire pendant, rect. canopy white, man. clamp, 1.5m, 1 pc	0202876
ZSPES-SI	Wire pendant, rect. canopy silver, wire clamp man., 1.5m, 1pc	0202876SI
ZSPH	Wire pendant, domed canopy, white, wire clamp 1.5m, 1 pc	0201619
ZSPH-SI	Wire pendant, domed canopy, silver, wire clamp, 1.5m, 1pc	0201619SI
ZSPHS	Wire pendant, domed canopy, white, man. clamp 1.5m, 1 pc	0205027
ZSPHS-SI	Wire pendant, domed canopy, silver, wire clamp man., 1.5m, 1pc	0205027SI
ZSPS	Wire pendant, ceiling fixture, wire clamp man., 1.5m, 1set=2pc	0205018
<sup>1)</sup> ZSPTS	'Y' wire pendant w. ceiling fixture, manual clamp, 1.5m, 1 pc	0203537
<sup>1)</sup> ZSPTSE 1,5M	Wire pendant rectangular canopy, white, wire clamp, 1.5m	0202926
<sup>1)</sup> ZSPTSE 1,5M-SI	Wire pendant w. rect. canopy, silver, wire clamp, 1.5m	0202926SI
<sup>1)</sup> ZSPTSH 1,5M	Wire pendant domed canopy, white, wire clamp, 1.5m	0202927
<sup>1)</sup> ZSPTSH 1,5M-SI	Wire pendant w. half domed canopy, silver, wire clamp, 1.5m	0202927SI
ZWL 3x1,5/1M	White spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 1.0 metre	0200805
ZWL 3x1,5/1M-SW	Black spiral cable, 3 x 1.5 mm <sup>2</sup> , L=1.0 metre	0203251
ZWL 3x1,5/2M	White spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 2.0 metres	0201543
ZWL 3x1,5/2M-SW	Black spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 2.0 metres	0203252

**Note:** One wire or tube pendant must be ordered per suspension point.

<sup>1)</sup> **For pendant luminaire mounting with this accessory, please order a retrofit counterweight AG ALE/ABRF ... ensure compatibility with the specific luminaire type.**

**The counterweight can be pre-fitted in the factory on request.**

# ALEW-R for RIDI-TUBE lamp (LED)

## Surface-mounted luminaire series ALEW-R, wall washer

**Design:** Surface mounted luminaire for ceiling or pendant mounting. Rigid luminaire housing with extremely decorative scratch resistant white (similar to RAL9016) or silver (-SI, similar to RAL9006) powder coating. With welded-in inset multifunction end pieces for mounting the lampholders and a patented quick release connection facility for the creation of continuous lighting systems as well as for holders for decorative end caps. For RIDI-TUBE lamps (order separately).

**End caps:** Must be ordered separately, see accessories.

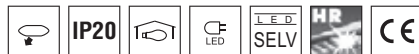
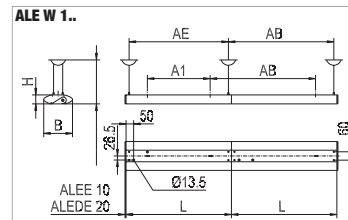
**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** A variety of fixing kits are available for luminaire mounting (see accessories).

**Junction points:** Junctions are available for creating continuous lighting system configurations (see accessories)



acc. to DIN EN 60598/VDE 0711



**ALEW-R**

Parabolic reflector made of high-reflectance matt anodised super-purity aluminium with silver coating, interference-free for extreme asymmetrical light distribution. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]					el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.	
			L	B	H	A1	AB	AE		
ALEW-R1X115/30xx	1xR-TUBE 30 W	E, F	1180	189	58	900	1180	1140	0650216	0660216
ALEW-R1X115/30xx-SI	1xR-TUBE 30 W	E, F	1180	189	58	900	1180	1140	0650216SI	0660216SI
ALEW-R1X145/35xx	1xR-TUBE 35 W	H, I	1480	189	58	1200	1480	1440	0650209	0660209
ALEW-R1X145/35xx-SI	1xR-TUBE 35 W	H, I	1480	189	58	1200	1480	1440	0650209SI	0660209SI





## Accessories

Model	Description	Prod. code
AG ALE/ABRF 114/124	Counterweight for ALE/ABRF 114/124	0207779
AG ALE/ABRF 128/154	Counterweight for ALE/ABRF 128/154	0207783
AG ALE/ABRF 135/149	Counterweight for ALE/ABRF 135/149	0207784
ALEDB-T16	Ceiling fixing kit 1+2 lamp ALE D=73, H=20, white, 1 pc	0201707
ALEDB-T16-SI	Ceiling fixture for ALE 1-/2-lamp, D=73, H=20, silver, 1 pc.	0201707SI
ALEDE 1	Decorative end cap for 1 lamp ALE, curved, white, 1 pc	0201565
ALEDE 1-SI	Decorative end cap for ALE 1-lamp, curved, silver, 1 pc.	0201565SI
ALEE 1	Decorative end cap for 1 lamp ALE, flat, white, 1 pc	0201705
ALEWH 1..	Wall holder for ALE 1-lamp, white, 1 pc	0205059
ALEWH 1..-SI	Wall holder for 1-lamp ALE, silver, 1 pc.	0205059SI
DAD	White ceiling outlet box for power supply, 3 x 1.5 mm <sup>2</sup> , D70 x H24	0201636
DAD-SI	Ceiling outlet box, silver, f. mains cable 3x1.5mm <sup>2</sup> , D70xH24	0201636SI
UKN	Universal junction, D=120, H=60, white 1 pc	0203253
UKN-SI	Universal junction D=120, H=60, silver, 1 pc.	0203253SI
UKNA-ALE 1..	Univ. junction adapter f. ALE 1.., dist.=180, white, through wiring 3x1,5	0203255
UKNA-ALE 1.. SI	Univ. junction adapter ALE 1.., distance=180,silver, 3x1.5 through wiring	0203255SI
UKND	Ceiling fixing kit for UKN	0208105
UKNS	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0210958
UKNSB	Wire pendant w. domed canopy, white, wire clamp, 1.5m, 1 pc	0210959
UKNSB-SI	Wire pendant with domed canopy, silver, wire clamp, 1.5m, 1pc	0210959SI
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZDBE-SI	Rect. canopy silver, for Y wire pendant, ZUSP and UKNS	0204332SI
ZIDV 18/3/1,5	Through wiring T26-18W + T16-14/21W, 3x1.5mm <sup>2</sup> , max.10A	0204845
ZIDV 18/5/1,5	Through wiring T26-18W + T16-14/21W, 5x1.5mm <sup>2</sup> , max.10A	0200554
ZIDV 36/3/1,5	Through wiring T26-36W + T16-28/54W, 3x1.5mm <sup>2</sup> , max.10A	0201201
ZIDV 36/5/1,5	Through wiring T26-36W + T16-28/54W, 5x1.5mm <sup>2</sup> , max. 10A	0200254
ZIDV 58/3/1,5	Through wiring T26-58W+T16-35/49/80W, 3x1.5mm <sup>2</sup> , max. 10A	0201202
ZIDV 58/5/1,5	Through wiring T26-58W+T16-35/49/80W,5x1.5mm <sup>2</sup> , max.10A	0200255
ZSP	Wire pendant, ceiling fixture, wire clamp, 1.5m, 1 set = 2pc	0205017
ZSPE	Wire pendant, rect. canopy white, wire clamp, 1.5m, 1 pc	0202867
ZSPE-SI	Wire pendant, rect. canopy silver, wire clamp, 1.5m, 1pc	0202867SI
ZSPES	Wire pendant, rect. canopy white, man. clamp, 1.5m, 1 pc	0202876
ZSPES-SI	Wire pendant, rect. canopy silver, wire clamp man., 1.5m, 1pc	0202876SI
ZSPH	Wire pendant, domed canopy, white, wire clamp 1.5m, 1 pc	0201619
ZSPH-SI	Wire pendant, domed canopy, silver, wire clamp, 1.5m, 1pc	0201619SI
ZSPHS	Wire pendant, domed canopy, white, man. clamp 1.5m, 1 pc	0205027
ZSPHS-SI	Wire pendant, domed canopy, silver, wire clamp man., 1.5m, 1pc	0205027SI
ZSPS	Wire pendant, ceiling fixture, wire clamp man., 1.5m, 1set=2pc	0205018
<sup>1)</sup> ZSPTS	Y' wire pendant w. ceiling fixture, manual clamp, 1.5m, 1 pc	0203537
<sup>1)</sup> ZSPTSE 1,5M	Wire pendant rectangular canopy, white, wire clamp, 1.5m	0202926
<sup>1)</sup> ZSPTSE 1,5M-SI	Wire pendant w. rect. canopy, silver, wire clamp, 1.5m	0202926SI
<sup>1)</sup> ZSPTSH 1,5M	Wire pendant domed canopy, white, wire clamp, 1.5m	0202927
<sup>1)</sup> ZSPTSH 1,5M-SI	Wire pendant w. half domed canopy, silver, wire clamp, 1.5m	0202927SI
ZWL 3x1,5/1M	White spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 1.0 metre	0200805
ZWL 3x1,5/1M-SW	Black spiral cable, 3 x 1.5 mm <sup>2</sup> , L=1.0 metre	0203251
ZWL 3x1,5/2M	White spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 2.0 metres	0201543
ZWL 3x1,5/2M-SW	Black spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 2.0 metres	0203252

**Note:** One wire or tube pendant must be ordered per suspension point.

<sup>1)</sup> **For pendant luminaire mounting with this accessory, please order a retrofit counterweight AG ALE/ABRF ... ensure compatibility with the specific luminaire type.**

**The counterweight can be pre-fitted in the factory on request.**

# AL-R for RIDI-TUBE lamp (LED)

## Surface-mounted luminaire series AL-R ..., direct beam

**Design:** Surface mounted luminaire for ceiling or pendant mounting, suitable for continuous mounting, direct beam. Angular steel housing with square cross-section. Surface white powder coated (similar to RAL9016). Welded-in multifunction end caps. Top mirror in high-reflectance silk matt anodised super-purity aluminium with silver coating. The louvre hinges down on both sides and is independently earthed for electrical safety. For RIDI-TUBE lamps (order separately).

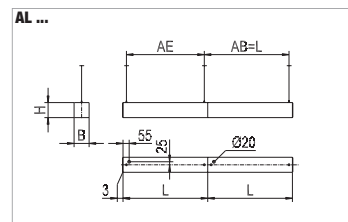
**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Single or continuous mounting. Patented quick-release connecting mechanism for continuous mounting. Ceiling mounting using supplied accessories. Pendant mounting using suitable fixing kits, see accessories.

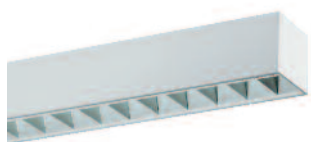
**Junction points:** Junctions are available for creating continuous lighting system configurations (see accessories)



### AL-R 1.. SM

Parabolic mirror louvre SM in high-reflectance, silk matt anodised super-purity aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
			L	B	H	AE		
AL-R1X115/30xx-SM	1xR-TUBE 30 W	E, F	1180	90	90	1130	0650408	0660408
AL-R1X145/35xx-SM	1xR-TUBE 35 W	H, I	1480	90	90	1430	0650412	0660412
AL-R1X145/45xx-SM	1xR-TUBE 45 W	I	1480	90	90	1430	0650572	0660572



### AL-R 1.. W

Louvre W, made of white coated aluminium. For RIDI-TUBE lamp, recommended cover: matt.

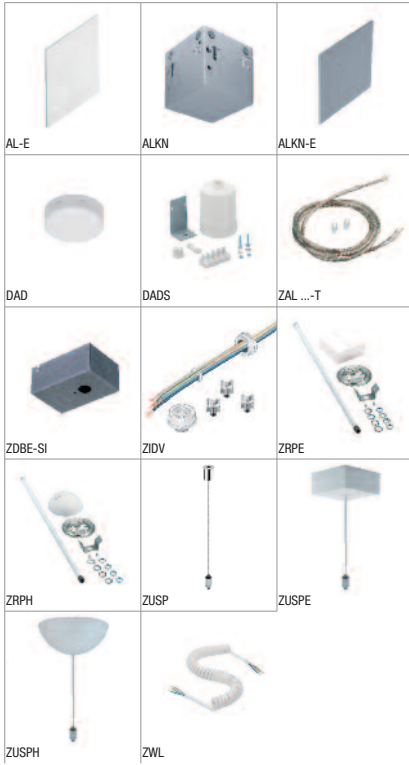
Model	Lamps max.	R-TUBE Category	Dimens. [mm]				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
			L	B	H	AE		
AL-R1X115/30xx-W	1xR-TUBE 30 W	E, F	1180	90	90	1130	0650409	0660409
AL-R1X145/35xx-W	1xR-TUBE 35 W	H, I	1480	90	90	1430	0650413	0660413
AL-R1X145/45xx-W	1xR-TUBE 45 W	I	1480	90	90	1430	0650573	0660573



### AL-R 1.. OS

Frame in steel with laid-in opal panel in UV-stabilised PMMA. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
			L	B	H	AE		
AL-R1X115/30xx-OS	1xR-TUBE 30 W	E, F	1180	90	90	1130	0650410	0660410
AL-R1X145/35xx-OS	1xR-TUBE 35 W	H, I	1480	90	90	1430	0650414	0660414
AL-R1X145/45xx-OS	1xR-TUBE 45 W	I	1480	90	90	1430	0650574	0660574



## Accessories

Model	Description	Prod. code
AL-E	End cap for AL/ALI, white, sheet steel	0203779
ALKN	Junction point for AL	0201471
ALKN-E	Cover plate for junction, 1 pc	0201472
DAD	White ceiling outlet box for power supply, 3 x 1.5 mm <sup>2</sup> , D70 x H24	0201636
DADS	White ceiling outlet for wire + power supply 3 x 1.5 mm <sup>2</sup>	0201635
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZDBE-SI	Rect. canopy silver, for Y wire pendant, ZUSP and UKNS	0204332SI
ZIDV 36/3/1,5	Through wiring T26-36W + T16-28/54W, 3x1.5mm <sup>2</sup> , max.10A	0201201
ZIDV 36/5/1,5	Through wiring T26-36W + T16-28/54W, 5x1.5mm <sup>2</sup> , max. 10A	0200254
ZIDV 36/5/2,5	Through wiring T26-36W + T16-28/54W, 5x2.5mm <sup>2</sup> , max. 16A	0200637
ZIDV 58/3/1,5	Through wiring T26-58W+T16-35/49/80W, 3x1.5mm <sup>2</sup> , max. 10A	0201202
ZIDV 58/5/1,5	Through wiring T26-58W+T16-35/49/80W, 5x1.5mm <sup>2</sup> , max.10A	0200255
ZIDV 58/5/2,5	Through wiring T26-58W+T16-35/49/80W, 5x2.5mm <sup>2</sup> , max. 16A	0200638
ZRPE 050	Tube pendant, rectangular canopy, white, L=0.5m, 1 pc	0202872
ZRPE 100	Tube pendant, rectangular canopy, white, L=1.0m, 1 pc	0202873
ZRPH 050	Tube pendant, domed canopy, white, L=0.5m, 1 pc	0205020
ZRPH 100	Tube pendant, domed canopy, white, L=1.0 m, 1 pc	0205021
ZUSP	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0201239
ZUSPE	Wire pendant kit with rectangular canopy, white, 1 pc	0202871
ZUSPH	Wire pendant, domed canopy, white, wire clamp, 1.5m, 1 pc	0205019
ZWL 3x1,5/1M	White spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 1.0 metre	0200805
ZWL 3x1,5/1M-SW	Black spiral cable, 3 x 1.5 mm <sup>2</sup> , L=1.0 metre	0203251
ZWL 3x1,5/2M	White spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 2.0 metres	0201543
ZWL 3x1,5/2M-SW	Black spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 2.0 metres	0203252

**Note:** One wire or tube pendant must be ordered per suspension point.

# ABRF-R for RIDI-TUBE lamp (LED)

## Surface-mounted luminaire series ABRF-R, direct beam

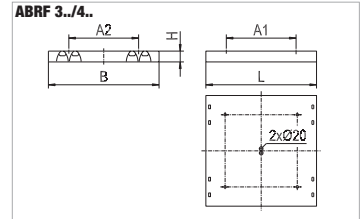
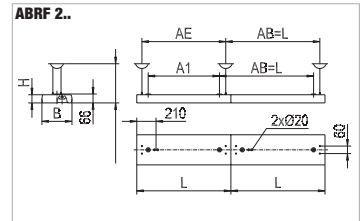
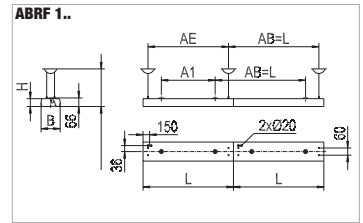
**Design:** Surface mounted luminaire for ceiling or pendant mounting, direct beam. Rigid luminaire housing in steel with highly scratch-resistant white powder coating (similar to RAL9016). With welded-in end caps with edges and pre-stamped break-off openings for through wiring and continuous mounting. The louvre hinges down on both sides and is independently earthed for electrical safety. For RIDI-TUBE lamps (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting: ABRF 1../2..:** Longitudinal sides convex. Single or continuous mounting. For continuous mounting, no louvres with continuous optical effect. Ceiling mounting with supplied accessories or pendant mounting using the relevant fixing kits (see accessories). **ABRF 4..:** Longitudinal sides straight. Single mounting. Ceiling mounting / pendant mounting with accessories ZUSP, ZUSPE or ZUSPH.



**ABRF-R ... SM**

Parabolic mirror louvre SM in high-reflectance, silk matt anodised super-purity aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.



Model	Lamps max.	R-TUBE Category	L	Dimens. (mm)				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
				B	H	A1	A2		
ABRF-R1X115/30xx-SM	1xR-TUBE 30 W	E, F	1200	146	60	900	1100	0650016	0660016
ABRF-R1X145/35xx-SM	1xR-TUBE 35 W	H, I	1500	146	60	1200	1400	0650018	0660018
ABRF-R2X115/30xx-SM	2xR-TUBE 30 W	E, F	1200	231	60	900	1100	0650287	0660287
ABRF-R2X145/35xx-SM	2xR-TUBE 35 W	H, I	1500	231	60	1200	1400	0650047	0660047
ABRF-R4X055/15xx-SM	4xR-TUBE 15 W	B	599	599	60	390	390	0650206	0660206

**Surface-mounted luminaire series ABRFW-R, wall washer**

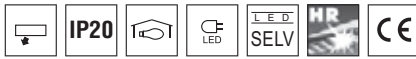
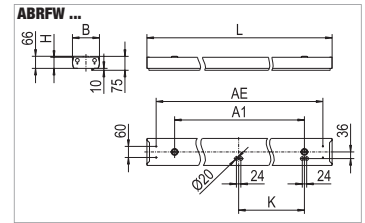
**Design:** Surface mounted wall washer for ceiling or pendant mounting. Rigid luminaire housing, curved longitudinal sides in steel, white powder-coated (similar to RAL 9016). Welded-in end caps with rim and break-off openings for through wiring and continuous mounting. For single or continuous luminaire mounting. With continuous mounting, no optically continuous through reflector. For RIDI-TUBE lamps (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Ceiling mounting without additional accessories / pendant mounting using the relevant fixing kits, see accessories.

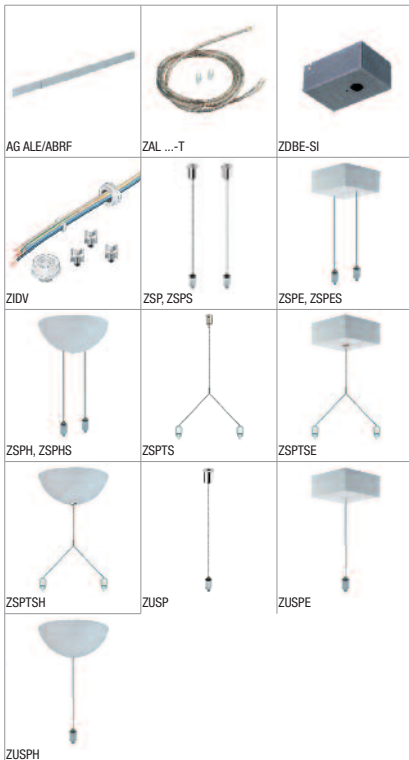


**ABRFW-R ...**

Reflector for asymmetrical light distribution in high-reflectance matt anodised super-purity aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	B	Dimens. (mm) H A1	AE	K	el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
ABRFW-R1X115/30xx	1xR-TUBE 25 W	E, F	1200	146	60 900	1100	450	0651026	0661026
ABRFW-R1X145/35xx	1xR-TUBE 35 W	H, I	1500	146	60 1200	1400	600	0651027	0661027

**Accessories for ABRF..., ABRFW...**



Model	Description	Prod. code.
AG ALE/ABRF 114/124	Counterweight for ALE/ABRF 114/124	0207779
AG ALE/ABRF 121/139	Counterweight for ALE/ABRF 121/139	0207782
AG ALE/ABRF 128/154	Counterweight for ALE/ABRF 128/154	0207783
AG ALE/ABRF 135/149	Counterweight for ALE/ABRF 135/149	0207784
AG ALE/ABRF 214/224	Counterweight for ALE/ABRF 214/224	0207789
AG ALE/ABRF 221/239	Counterweight for ALE/ABRF 221/239	0207791
AG ALE/ABRF 228/254	Counterweight for ALE/ABRF 228/254	0207792
AG ALE/ABRF 235/249	Counterweight for ALE/ABRF 235/249	0207793
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZIDV 18/3/1,5	Through wiring T26-18W + T16-14/21W, 3x1.5mm <sup>2</sup> , max.10A	0204845
ZIDV 18/5/1,5	Through wiring T26-18W + T16-14/21W, 5x1.5mm <sup>2</sup> , max.10A	0200554
ZIDV 36/3/1,5	Through wiring T26-36W + T16-28/54W, 3x1.5mm <sup>2</sup> , max.10A	0201201
ZIDV 36/5/1,5	Through wiring T26-36W + T16-28/54W, 5x1.5mm <sup>2</sup> , max.10A	0200254
ZIDV 58/3/1,5	Through wiring T26-58W+T16-35/49/80W, 3x1.5mm <sup>2</sup> , max. 10A	0201202
ZIDV 58/5/1,5	Through wiring T26-58W+T16-35/49/80W,5x1.5mm <sup>2</sup> , max.10A	0200255
ZSP	Wire pendant, ceiling fixture, wire clamp, 1.5m, 1 set = 2pc	0205017
ZSPE	Wire pendant, rect. canopy white, wire clamp, 1.5m, 1 pc	0202867
ZSPH	Wire pendant, domed canopy, white, wire clamp 1.5m, 1 pc	0201619
ZSPHS	Wire pendant, domed canopy, white, man. clamp 1.5m, 1 pc	0205027
ZSPS	Wire pendant, ceiling fixture, wire clamp man., 1.5m, 1set=2pc	0205018
ZSPTS	'Y' wire pendant w. ceiling fixture, manual clamp, 1.5m, 1 pc	0203537
<sup>1)</sup> ZSPTSE 1,5M	Wire pendant rectangular canopy, white, wire clamp, 1.5m	0202926
<sup>1)</sup> ZSPTSH 1,5M	Wire pendant domed canopy, white, wire clamp, 1.5m	0202927
<sup>12)</sup> ZUSP	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0201239
<sup>12)</sup> ZUSP 3M	Wire pendant w. ceiling fixing and wire clamp 3.0m, 1 pc	0215950
<sup>12)</sup> ZUSP 5M	Wire pendant w. ceiling fixing and wire clamp 5.0m, 1 pc	0215951
<sup>12)</sup> ZUSPE	Wire pendant kit with rectangular canopy, white, 1 pc	0202871
<sup>12)</sup> ZUSPH	Wire pendant, domed canopy, white, wire clamp, 1.5m, 1 pc	0205019

**Note:** One wire or tube pendant must be ordered per suspension point.

<sup>1)</sup> For pendant luminaire mounting with this accessory, please order a retrofit counterweight AG ALE/ABRF ... ensure compatibility with the specific luminaire type.

The counterweight can be pre-fitted in the factory on request.

<sup>2)</sup> ZUSP for 3 and 4-lamp versions

# ABRFB-R for RIDI-TUBE lamp (LED)

## Surface-mounted luminaire series ABRFB-R, direct beam

**Design:** Surface mounted luminaire for ceiling or pendant mounting, suitable for continuous mounting. Rigid luminaire housing in steel with highly scratch resistant white powder coating (similar to RAL9016). Welded-in functional end caps with patented quick-release connection mechanism for continuous mounting. For continuous mounting, louvres with continuous optical effect. The louvre hinges down on both sides and is independently earthed for electrical safety. With prismatic diffuser, only single mounting possible. For RIDI-TUBE lamps (order separately).

**End caps:** Must be ordered separately, see accessories.

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal.

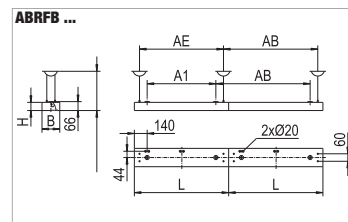
Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Single or continuous mounting. Ceiling mounting using supplied accessories. Pendant mounting using suitable fixing kits, see accessories.).

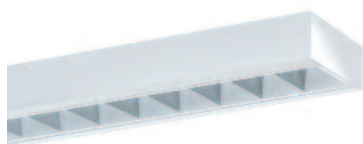
**Junction points:** Junctions are available for creating continuous lighting system configurations (see accessories)



### ABRFB-R ... SM

Parabolic mirror louvre SM in high-reflectance, silk matt anodised super-purity aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	B	Dimens. [mm]			AB	AE	el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
					H	A1					
ABRFB-R1X115/30xx-SM	1xR-TUBE 30 W	E, F	1180	131	60	900	1180	1100	0650007	0660007	
ABRFB-R1X145/35xx-SM	1xR-TUBE 35 W	H, I	1480	131	60	1200	1480	1400	0650004	0660004	
ABRFB-R2X115/30xx-SM	2xR-TUBE 30 W	E, F	1180	131	60	900	1180	1100	0650009	0660009	
ABRFB-R2X145/35xx-SM	2xR-TUBE 35 W	H, I	1480	131	60	1200	1480	1400	0650005	0660005	



### ABRFB-R ... W

Louvre W, made of white coated aluminium. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	B	Dimens. [mm]			AB	AE	el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
					H	A1					
ABRFB-R1X115/30xx-W	1xR-TUBE 30 W	E, F	1180	131	60	900	1180	1100	0650050	0660050	
ABRFB-R1X145/35xx-W	1xR-TUBE 35 W	H, I	1480	131	60	1200	1480	1400	0650002	0660002	
ABRFB-R2X115/30xx-W	2xR-TUBE 30 W	E, F	1180	131	60	900	1180	1100	0650051	0660051	
ABRFB-R2X145/35xx-W	2xR-TUBE 35 W	H, I	1480	131	60	1200	1480	1400	0650003	0660003	



### ABRFB-R ... P

Prismatic diffuser with internal prisms in PMMA (not suitable for continuous mounting). For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	B	Dimens. [mm]			AB	AE	el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
					H	A1					
ABRFB-R1X115/30xx-P	1xR-TUBE 30 W	E, F	1180	131	60	900	1180	1100	0650052	0660052	
ABRFB-R1X145/35xx-P	1xR-TUBE 35 W	H, I	1480	131	60	1200	1480	1400	0650054	0660054	

**Surface-mounted luminaire series ABRFBW-R, wall washer**

**Design:** Surface mounted wall washer for ceiling or pendant mounting. Rigid luminaire housing in steel with highly scratch resistant white powder coating (similar to RAL9016). Welded-in functional end caps with patented quick-release catches for continuous mounting. For RIDI-TUBE lamps (order separately).

**End caps:** Must be ordered separately, see accessories.

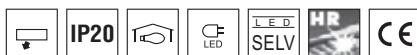
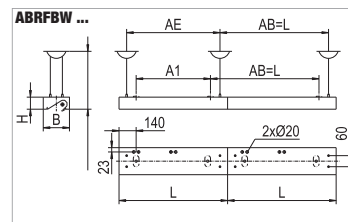
**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Single or continuous mounting. Ceiling mounting using supplied accessories. Pendant mounting using suitable fixing kits, see accessories. Recommended wall spacing 1/3 of room height.

**Junction points:** Junctions are available for creating continuous lighting system configurations (see accessories)



acc. to DIN EN 60598/VDE 0711

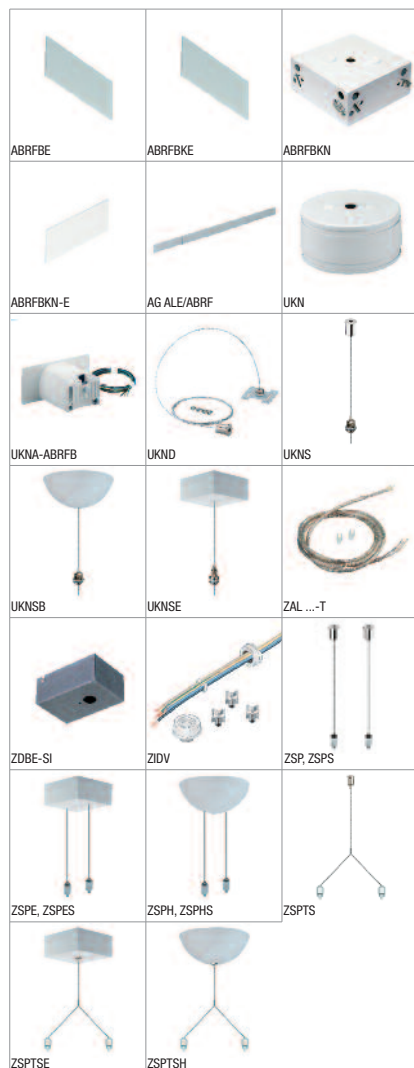


**ABRFBW-R**

Parabolic reflector made of high-reflectance matt anodised super-purity aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]					el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.	
			L	B	H	A1	AB			AE
ABRFBW-R1X115/30xx	1xR-TUBE 30 W	E, F	1180	131	60	900	1180	1100	0650217	0660217
ABRFBW-R1X145/35xx	1xR-TUBE 35 W	H, I	1480	131	60	1200	1480	1400	0650098	0660098

**Accessories for ABRFB..., ABRFBI..., ABRFBW...**



Model	Description	Prod. code.
ABRFB	End cap for ABRFB, ABRFBI, white, sheet steel, 1 pc	0203581
ABRFB-AS .54 SK	Transparent top diffuser for ABRFBI .28/54, white holder	0207951
ABRFB-AS .80 SK	Transparent top diffuser for ABRFBI 180/249, white holder	0207952
ABRFBKE	End cap for ABRFB, ABRFBI, white, plastic, 1 pc	0203584
ABRFBKN	Junction point for ABRFB/ABRFB	0203585
ABRFBKN-E	Cover plate for junction, 1 pc	0203586
AG ALE/ABRF 128/154	Counterweight for ALE/ABRF 128/154	0207783
AG ALE/ABRF 135/149	Counterweight for ALE/ABRF 135/149	0207784
AG ALE/ABRF 228/254	Counterweight for ALE/ABRF 228/254	0207792
AG ALE/ABRF 235/249	Counterweight for ALE/ABRF 235/249	0207793
UKN	Universal junction, D=120, H=60, white 1 pc	0203253
UKNA-ABRFB	Univ. junction adapter for ABRFB, white, TW	0215933
UKND	Ceiling fixing kit for UKN	0208105
UKNS	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0210958
UKNS 3M	Wire pendant w. ceiling fixing and wire clamp 3.0m, 1 pc	0215942
UKNS 5M	Wire pendant w. ceiling fixing and wire clamp 5.0m, 1 pc	0215943
UKNSB	Wire pendant w. domed canopy, white, wire clamp, 1.5m, 1 pc	0210959
UKNSE	Wire pendant w. rect. canopy, white, 1.5m, 1 pc	0202879
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZIDV 36/3/1,5	Through wiring T26-36W + T16-28/54W, 3x1.5mm <sup>2</sup> , max. 10A	0201201
ZIDV 36/5/1,5	Through wiring T26-36W + T16-28/54W, 5x1.5mm <sup>2</sup> , max. 10A	0200254
ZIDV 58/3/1,5	Through wiring T26-58W+T16-35/49/80W, 3x1.5mm <sup>2</sup> , max. 10A	0201202
ZIDV 58/5/1,5	Through wiring T26-58W+T16-35/49/80W, 5x1.5mm <sup>2</sup> , max. 10A	0200255
ZSP	Wire pendant, ceiling fixture, wire clamp, 1.5m, 1 set = 2pc	0205017
ZSPE	Wire pendant, rect. canopy white, wire clamp, 1.5m, 1 pc	0202867
ZSPH	Wire pendant, domed canopy, white, wire clamp 1.5m, 1 pc	0201619
ZSPHS	Wire pendant, domed canopy, white, man. clamp 1.5m, 1 pc	0205027
ZSPS	Wire pendant, ceiling fixture, wire clamp man., 1.5m, 1set=2pc	0205018
<sup>1)</sup> ZSPTS	'Y' wire pendant w. ceiling fixture, manual clamp, 1.5m, 1 pc	0203537
<sup>1)</sup> ZSPTSE 1,5M	Wire pendant rectangular canopy, white, wire clamp, 1.5m	0202926
<sup>1)</sup> ZSPTSH 1,5M	Wire pendant domed canopy, white, wire clamp, 1.5m	0202927

**Note:** One wire or tube pendant must be ordered per suspension point.

<sup>1)</sup> For pendant luminaire mounting with this accessory, please order a retrofit counterweight AG ALE/ABRF ... ensure compatibility with the specific luminaire type.

The counterweight can be pre-fitted in the factory on request.

# ABRB-R for RIDI-TUBE lamp (LED)

## Surface-mounted luminaire ABRB-R, direct beam, rapid mounting

**Design:** Surface mounted ceiling luminaire, suitable for continuous mounting, direct beam. For continuous mounting, a louvre with continuous lit effect is used. Luminaire housing in sheet steel, white powder coated (similar to RAL 9016). The louvre hinges down on both sides and is independently earthed for electrical safety. Lamp: RIDI-TUBE.

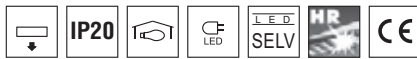
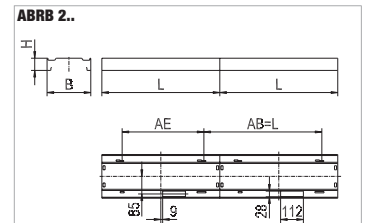
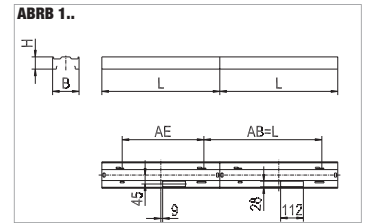
Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Single and continuous luminaire mounting using a simple toolless quick-mounting system for substantially reduced installation time. Fixing clips create a distance of 5 mm between the ceiling and luminaire. Electrical connection from the outside at the top of the luminaire, which is recessed to accommodate the connecting cable and through wiring. Continuous mounting using luminaire connector ABRBV made of UV-stabilised plastic, to be ordered separately (see accessories).



acc. to DIN EN 60598/VDE 0711



### ABRB-R ... SM

Parabolic mirror louvre SM, high-reflectance silk matt anodised super-purity aluminium with silver coating. For continuous mounting with continuous optical effect. Luminaire end caps made of UV-stabilised plastic, to be ordered separately (see accessories). For RIDI-TUBE lamp (order separately), recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]					el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
			L	B	H	AB	AE		
ABRB-R1X115/30xx-SM	1xR-TUBE 30 W	E, F	1180	130	60	1180	1000	0650323	0660323
ABRB-R1X145/35xx-SM	1xR-TUBE 35 W	H, I	1480	130	60	1480	1300	0650326	0660326
ABRB-R2X115/30xx-SM	2xR-TUBE 30 W	E, F	1180	215	60	1180	1000	0650329	0660329
ABRB-R2X145/35xx-SM	2xR-TUBE 35 W	H, I	1480	215	60	1480	1300	0650332	0660332



### ABRB-R ... W

Louvre W, made of white coated aluminium. For continuous mounting with continuous optical effect. Luminaire end caps made of UV-stabilised plastic, to be ordered separately (see accessories). For RIDI-TUBE lamp (order separately), recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]					el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
			L	B	H	AB	AE		
ABRB-R1X115/30xx-W	1xR-TUBE 30 W	E, F	1180	130	60	1180	1000	0650324	0660324
ABRB-R1X145/35xx-W	1xR-TUBE 35 W	H, I	1480	130	60	1480	1300	0650327	0660327
ABRB-R2X115/30xx-W	2xR-TUBE 30 W	E, F	1180	215	60	1180	1000	0650330	0660330
ABRB-R2X145/35xx-W	2xR-TUBE 35 W	H, I	1480	215	60	1480	1300	0650333	0660333



### ABRB-R ... SM SET

Parabolic mirror louvre SM, high-reflectance silk matt anodised super-purity aluminium with silver coating. For continuous mounting with continuous optical effect. Including luminaire end caps made of UV-stabilised plastic. Including RIDI-TUBE lamp.

Model	Lamps max.	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code.
						L	B	H	AB	AE	
ABRB-R1X115/30xx-SM-SET	1xR-TUBE 30 W	3828	35	109	840	1180	130	60	1180	1000	0650323//676
ABRB-R1X145/35xx-SM-SET	1xR-TUBE 35 W	3915	34	115	840	1480	130	60	1480	1300	0650326//676
ABRB-R2X115/30xx-SM-SET	2xR-TUBE 30 W	7656	70	109	840	1180	215	60	1180	1000	0650329//676
ABRB-R2X145/35xx-SM-SET	2xR-TUBE 35 W	7830	68	115	840	1480	215	60	1480	1300	0650332//676

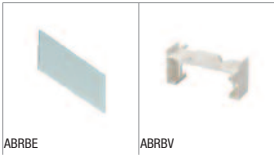


### ABRB-R ... W SET

Louvre W, made of white coated aluminium. For continuous mounting with continuous optical effect. Including luminaire end caps made of UV-stabilised plastic. Including RIDI-TUBE lamp.

Model	Lamps max.	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code.
						L	B	H	AB	AE	
ABRB-R1X115/30xx-W-SET	1xR-TUBE 30 W	3494	35	99	840	1180	130	60	1180	1000	0650324//676
ABRB-R1X145/35xx-W-SET	1xR-TUBE 35 W	3573	34	105	840	1480	130	60	1480	1300	0650327//676
ABRB-R2X115/30xx-W-SET	2xR-TUBE 30 W	6987	70	99	840	1180	215	60	1180	1000	0650330//676
ABRB-R2X145/35xx-W-SET	2xR-TUBE 35 W	7146	68	105	840	1480	215	60	1480	1300	0650333//676





## Accessories

Model	Description	Prod. code.
ABRBE 1	End cap for ABRB 1..., white, 1 pc	0202949
ABRBE 2	End cap for ABRB 2..., white, 1 pc	0202950
ABRBV 1	Luminaire connector ABRB 1..., white, 1 pc	0202951
ABRBV 2	Luminaire connector for ABRB 2..., white, 1 pc	0202952
ZADV .28/54/3/1,5	External through wiring T16-.28/54 W, 3x1.5mm <sup>2</sup> , max.10A	0202961
ZADV .28/54/5/1,5	External through wiring T16-.28/54 W, 5x1.5mm <sup>2</sup> , max.10A	0202963
ZADV .35/49/3/1,5	External through wiring T16-.35/49 W, 3x1.5mm <sup>2</sup> , max.10A	0202962
ZADV .35/49/5/1,5	External through wiring T16-.35/49 W, 5x1.5mm <sup>2</sup> , max.10A	0202964

ABRFB + ABRFBW



# ABR-R for RIDI-TUBE lamp (LED)

## Surface-mounted luminaire series ABR-R, direct beam

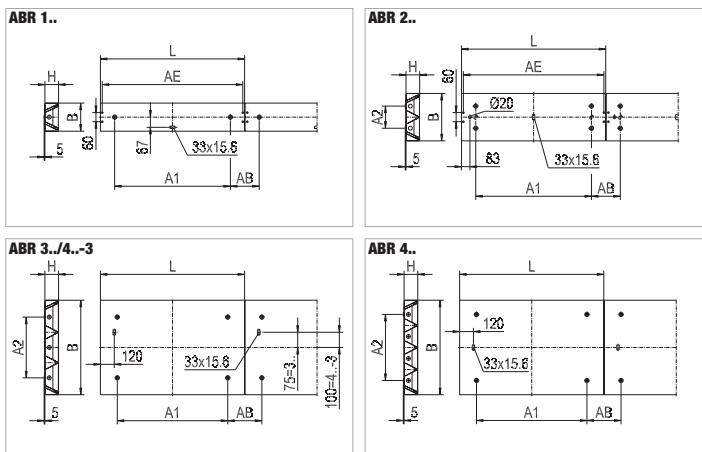
**Design:** Surface mounted luminaire for ceiling or pendant mounting, direct beam. Rigid luminaire housing with rounded longitudinal edge. High-grade scratch resistant white powder coating (similar to RAL9016). End caps with pre-stamped knock-outs for through wiring ZIDV... when continuous mounting. For RIDI-TUBE lamps (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Single or continuous mounting. For continuous mounting, no louvre with continuous optical effect. Ceiling mounting with supplied accessories, or pendant mounting with suitable fixing kits (see accessories). For pendant tube mounting with ZRP ..., one fixing bracket ZRP-BW must be ordered for each pendant tube.



### ABR-R ... SM

Parabolic mirror louvre SM made of matt anodised super-purity aluminium. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	B	H	Dimens. [mm]			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.	
						A1	A2	AB	AE		
ABR-R1X120/25xx-SM	1xR-TUBE 25 W	G	1248	181	95	950		300	1222	0650107	0660107
ABR-R1X150/40xx-SM	1xR-TUBE 40 W	J	1548	181	95	1250		300	1522	0650113	0660113
ABR-R2X120/25xx-SM	2xR-TUBE 25 W	G	1248	308	95	950	132	300	1222	0650126	0660126
ABR-R2X150/40xx-SM	2xR-TUBE 40 W	J	1548	308	95	1250	132	300	1522	0650132	0660132
ABR-R4X055/15xx-SM	4xR-TUBE 15 W	B	624	620	95	400	435	225		0650144	0660144



### ABR-R ... W

White louvre W, made of steel. For RIDI-TUBE lamp, recommended cover: matt.

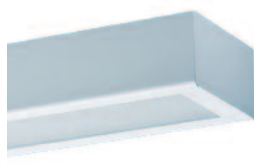
Model	Lamps max.	R-TUBE Category	L	B	H	Dimens. [mm]			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.	
						A1	A2	AB	AE		
ABR-R1X120/25xx-W	1xR-TUBE 25 W	G	1248	181	95	950		300	1222	0650105	0660105
ABR-R1X150/40xx-W	1xR-TUBE 40 W	J	1548	181	95	1250		300	1522	0650111	0660111
ABR-R2X055/15xx-W	2xR-TUBE 15 W	B	624	308	95	400	132	225	598	0650117	0660117
ABR-R2X120/25xx-W	2xR-TUBE 25 W	G	1248	308	95	950	132	300	1222	0650124	0660124
ABR-R2X150/40xx-W	2xR-TUBE 40 W	J	1548	308	95	1250	132	300	1522	0650130	0660130
ABR-R4X055/15xx-W	4xR-TUBE 15 W	B	624	620	95	400	435	225		0650142	0660142



### ABR-R ... PS, IP 40

Frame PS made of sectional aluminium with laid-in prismatic acrylic panel in PMMA with optically effective external prismatic structure. For RIDI-TUBE lamp, recommended cover: clear.

Model	Lamps max.	R-TUBE Category	L	B	H	Dimens. [mm]			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.	
						A1	A2	AB	AE		
ABR-R1X120/25xx-PS	1xR-TUBE 25 W	G	1248	181	95	950		300	1222	0650109	0660109
ABR-R1X150/40xx-PS	1xR-TUBE 40 W	J	1548	181	95	1250		300	1522	0650115	0660115
ABR-R2X120/25xx-PS	2xR-TUBE 25 W	G	1248	308	95	950	132	300	1222	0650128	0660128
ABR-R2X150/40xx-PS	2xR-TUBE 40 W	J	1548	308	95	1250	132	300	1522	0650134	0660134
ABR-R4X055/15xx-PS	4xR-TUBE 15 W	B	624	620	95	400	435	225		0650146	0660146



### ABR-R ... OS, IP 40

Frame OS made of sectional aluminium with laid-in opal acrylic panel in PMMA. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	B	H	Dimens. [mm]			el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.	
						A1	A2	AB	AE		
ABR-R1X120/25xx-OS	1xR-TUBE 25 W	G	1248	181	95	950		300	1222	0650110	0660110
ABR-R1X150/40xx-OS	1xR-TUBE 40 W	J	1548	181	95	1250		300	1522	0650116	0660116
ABR-R2X120/25xx-OS	2xR-TUBE 25 W	G	1248	308	95	950	132	300	1222	0650129	0660129
ABR-R2X150/40xx-OS	2xR-TUBE 40 W	J	1548	308	95	1250	132	300	1522	0650135	0660135
ABR-R4X055/15xx-OS	4xR-TUBE 15 W	B	624	620	95	400	435	225		0650147	0660147



## Accessories

Model	Description	Prod. code.
AG-ABSB/ABR 1../2.. EVG	Counterweight for ABSB and ABR 1- and 2-lamp EVG	0201237
DAD	White ceiling outlet box for power supply, 3 x 1.5 mm <sup>2</sup> , D70 x H24	0201636
DADS	White ceiling outlet for wire + power supply 3 x 1.5 mm <sup>2</sup>	0201635
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZIDV 18/3/1,5	Through wiring T26-18W + T16-14/21W, 3x1.5mm <sup>2</sup> , max.10A	0204845
ZIDV 18/5/1,5	Through wiring T26-18W + T16-14/21W, 5x1.5mm <sup>2</sup> , max.10A	0200554
ZIDV 36/3/1,5	Through wiring T26-36W + T16-28/54W, 3x1.5mm <sup>2</sup> , max.10A	0201201
ZIDV 36/5/1,5	Through wiring T26-36W + T16-28/54W, 5x1.5mm <sup>2</sup> , max.10A	0200254
ZIDV 36/5/2,5	Through wiring T26-36W + T16-28/54W, 5x2.5mm <sup>2</sup> , max. 16A	0200637
ZIDV 58/3/1,5	Through wiring T26-58W+T16-35/49/80W, 3x1.5mm <sup>2</sup> , max. 10A	0201202
ZIDV 58/5/1,5	Through wiring T26-58W+T16-35/49/80W,5x1.5mm <sup>2</sup> , max.10A	0200255
ZIDV 58/5/2,5	Through wiring T26-58W+T16-35/49/80W, 5x2.5mm <sup>2</sup> , max. 16A	0200638
ZRO	Frame opener	0204003
ZRP-BW	Bracket for tube pendant mounting with ZRP..., white	0205022
ZRPE 050	Tube pendant, rectangular canopy, white, L=0.5m, 1 pc	0202872
ZRPE 100	Tube pendant, rectangular canopy, white, L=1.0m, 1 pc	0202873
ZRPH 050	Tube pendant, domed canopy, white, L=0.5m, 1 pc	0205020
ZRPH 100	Tube pendant, domed canopy, white, L=1.0 m, 1 pc	0205021
ZSP	Wire pendant, ceiling fixture, wire clamp, 1.5m, 1 set = 2pc	0205017
ZSPE	Wire pendant, rect. canopy white, wire clamp, 1.5m, 1 pc	0202867
ZSPES	Wire pendant, rect. canopy white, man. clamp, 1.5m, 1 pc	0202876
ZSPH	Wire pendant, domed canopy, white, wire clamp 1.5m, 1 pc	0201619
ZSPHS	Wire pendant, domed canopy, white, man. clamp 1.5m, 1 pc	0205027
ZSPS	Wire pendant, ceiling fixture, wire clamp man., 1.5m, 1set=2pc	0205018
<sup>1)</sup> ZSPTS	'Y' wire pendant w. ceiling fixture, manual clamp, 1.5m, 1 pc	0203537
<sup>1)</sup> ZSPTSE 1,5M	Wire pendant rectangular canopy, white, wire clamp, 1.5m	0202926
<sup>1)</sup> ZSPTSH 1,5M	Wire pendant domed canopy, white, wire clamp, 1.5m	0202927
ZWL 3x1,5/1M	White spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 1.0 metre	0200805
ZWL 3x1,5/1M-SW	Black spiral cable, 3 x 1.5 mm <sup>2</sup> , L=1.0 metre	0203251
ZWL 3x1,5/2M	White spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 2.0 metres	0201543
ZWL 3x1,5/2M-SW	Black spiral cable, 3 x 1.5 mm <sup>2</sup> , L= 2.0 metres	0203252

**Note:** One wire or tube pendant must be ordered per suspension point.

<sup>1)</sup> **For pendant luminaire mounting with this accessory, please order a retrofit counterweight AG ALE/ABRF ... ensure compatibility with the specific luminaire type.**

**The counterweight can be pre-fitted in the factory on request.**

# ABW-R for RIDI-TUBE lamp (LED)

## Surface-mounted luminaire series ABW-R, wall washer

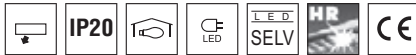
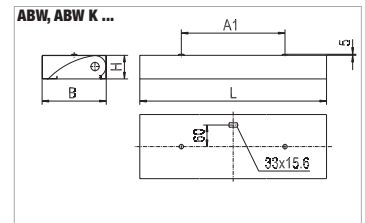
**Design:** Single wall washer for ceiling surface or pendant mounting, direct beam, steel housing white powder coated (similar to RAL9016). For RIDI-TUBE lamps (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

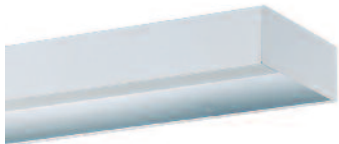
### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Ceiling mounting with supplied accessories. Recommended wall spacing 1/3 of the room height



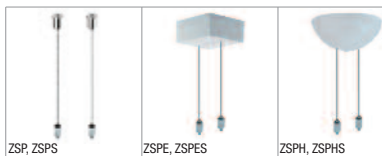
acc. to DIN EN 60598/VDE 0711



### ABW-R

Parabolic aluminium reflector (wall washer) made of high-reflectance matt anodised super-purity aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. (mm)				el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
			L	B	H	A1		
ABW-R1X085/25xx	1xR-TUBE 25 W	C	900	193	72	650	0650347	0660347
ABW-R1X115/30xx	1xR-TUBE 30 W	E, F	1200	193	72	950	0650348	0660348
ABW-R1X145/35xx	1xR-TUBE 35 W	H, I	1500	193	72	1250	0650349	0660349



## Accessories

Model	Description	Prod. code.
ZSP	Wire pendant, ceiling fixture, wire clamp, 1.5m, 1 set = 2pc	0205017
ZSPE	Wire pendant, rect. canopy white, wire clamp, 1.5m, 1 pc	0202867
ZSPES	Wire pendant, rect. canopy white, man. clamp, 1.5m, 1 pc	0202876
ZSPH	Wire pendant, domed canopy, white, wire clamp 1.5m, 1 pc	0201619
ZSPHS	Wire pendant, domed canopy, white, man. clamp 1.5m, 1 pc	0205027
ZSPS	Wire pendant, ceiling fixture, wire clamp man., 1.5m, 1set=2pc	0205018

**Note:** One wire or tube pendant must be ordered per suspension point.

**Surface and recessed luminaire series AEBR-R**

**Design:** Surface/recess-mounted louvre luminaire for ceiling or pendant mounting / recessed mounting. Consisting of a steel base plate with low profile sides, no abutting joints visible underneath with light aperture. The surface mounted steel gear housing accommodates all the electrical components and the louvre fixing. Both luminaire housing components are white (similar to RAL 9016) or silver (similar to RAL 9006) powder coated.

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

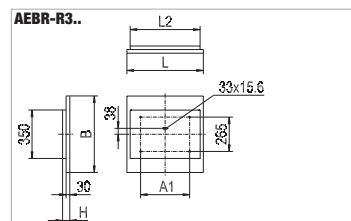
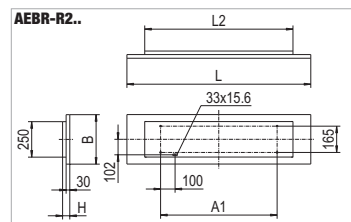
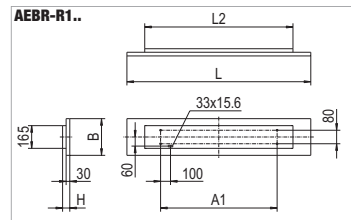
**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Ceiling mounting using the ceiling fixing kit AEBR-DB and standard screws. Pendant mounting using fixing kit ZSPTK (0203509) / UKNS (0210958). Semi-recessed ceiling mounting using suitable fixing kit (see accessories)



acc. to DIN EN 60598/VDE 0711

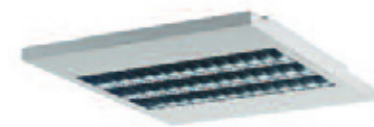


**AEBR-R ... SM**

Parabolic mirror louvre SM in high-reflectance, silk matt anodised super-purity aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	B	Dimens. [mm]				LE*	BE*	el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
					H	A1	L2					
AEBR-R1X085/25xx-SM	1xR-TUBE 25 W	C	1200	300	60	800	882	890	170	0750042	0760042	
AEBR-R1X085/25xx-SM-SI	1xR-TUBE 25 W	C	1200	300	60	800	882	890	170	0750042SI	0760042SI	
AEBR-R1X115/30xx-SM	1xR-TUBE 30 W	E, F	1500	300	60	1100	1182	1190	170	0750045	0760045	
AEBR-R1X115/30xx-SM-SI	1xR-TUBE 30 W	E, F	1500	300	60	1100	1182	1190	170	0750045SI	0760045SI	
AEBR-R2X085/25xx-SM	2xR-TUBE 25 W	C	1200	400	60	800	882	890	255	0750049	0760049	
AEBR-R2X085/25xx-SM-SI	2xR-TUBE 25 W	C	1200	400	60	800	882	890	255	0750049SI	0760049SI	
AEBR-R2X115/30xx-SM	2xR-TUBE 30 W	E, F	1500	400	60	1100	1182	1190	255	0750050	0760050	
AEBR-R2X115/30xx-SM-SI	2xR-TUBE 30 W	E, F	1500	400	60	1100	1182	1190	255	0750050SI	0760050SI	

\* Ceiling cut-out

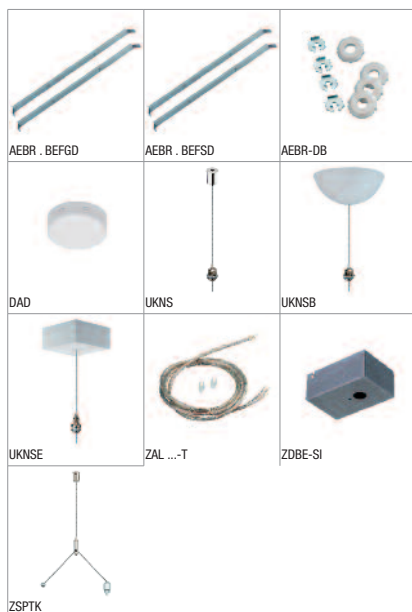


**AEBR-R 3.. SM**

Square luminaire. Parabolic mirror louvre SM made of high-reflectance silk matt anodised super-purity aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	B	Dimens. [mm]				LE*	BE*	el. conv. xx=ND Prod. code.	dim. conv. DALI xx=DA Prod. code.
					H	A1	L2					
AEBR-R3X055/10xx-SM	3xR-TUBE 10 W	A	625	625	60	540	582	590	355	0750052	0760052	
AEBR-R3X055/10xx-SM-SI	3xR-TUBE 10 W	A	625	625	60	540	582	590	355	0750052SI	0760052SI	

\* Ceiling cut-out



**Accessories**

Model	Description	Prod. code.
AEBR 1 BEFGD	Fixing kit for sawn ceiling cut-outs	0204034
AEBR 1 BEFSD	Fixing kit for system ceilings	0204037
AEBR 2 BEFGD	Fixing kit for sawn ceiling cut-outs	0204035
AEBR 2 BEFSD	Fixing kit for system ceilings	0204038
AEBR 3 BEFGD	Fixing kit for sawn ceiling cut-outs	0204036
AEBR 3 BEFSD	Fixing kit for system ceilings	0204039
AEBR-DB	Ceiling fixing kit for AEBR 1../2../3..	0203510
DAD	White ceiling outlet box for power supply, 3 x 1.5 mm <sup>2</sup> , D70 x H24	0201636
DAD-SI	Ceiling outlet box, silver, f. mains cable 3x1.5mm <sup>2</sup> , D70xH24	0201636SI
UKNS	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0210958
UKNS 3M	Wire pendant w. ceiling fixing and wire clamp 3.0m, 1 pc	0215942
UKNS 5M	Wire pendant w. ceiling fixing and wire clamp 5.0m, 1 pc	0215943
UKNSB	Wire pendant w. domed canopy, white, wire clamp, 1.5m, 1 pc	0210959
UKNSE	Wire pendant w. rect. canopy, white, 1.5m, 1 pc	0202879
UKNSE-SI	Wire pendant with rect. canopy, silver, 1.5m, 1pc	0202879SI
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580
ZDBE	Rectang. canopy, white, for 'Y' wire pendant ZUSP & UKNS	0204332
ZDBE-SI	Rect. canopy silver, for Y wire pendant, ZUSP and UKNS	0204332SI
ZSPTK	'Y' wire pendant w. ceiling fixture, ball, 1.5m, 1 pc	0203509

**Note:** One wire or tube pendant must be ordered per suspension point.

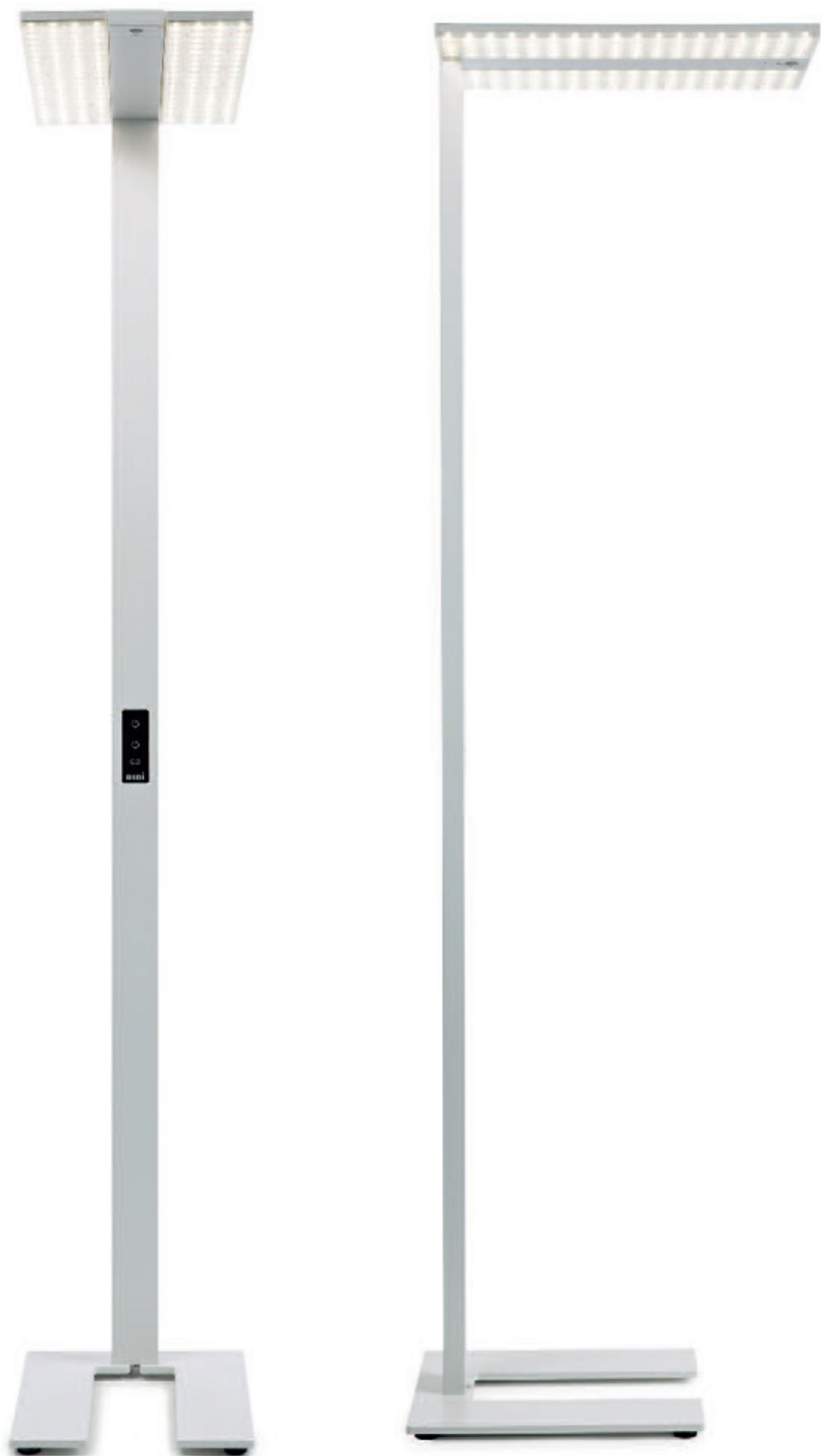
**FLOOR-STANDING LUMINAIRES**

**FLOOR-STANDING**

**floor-standing  
luminaires**

**floor-standing  
LUMINAIRES**

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## LENSES floor-standing luminaire

**Design:** Modern LED floor lamp direct-indirect beam. High-grade, rectangular construction of the luminaire head made of die cast aluminium, colour white (similar to RAL 9016), powder coated. Stand made of extruded aluminium with closed cross-section for perfect stability. Flush-integrated touch panel for the light control. Height adjustable foot in black powder coated steel with recess to accommodate desk legs.

Direct lighting portion (25%) through lens optic array for luminous efficacy. LED modules for indirect lighting portion (75%), covered by glazed pane.

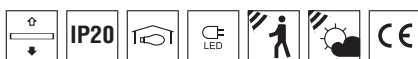
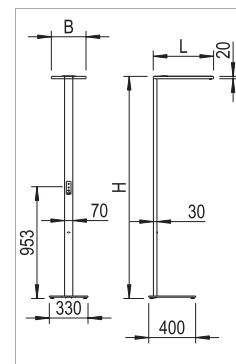
Midpower LED modules for maximum lighting efficiency. Protection class I, Degree of protection IP20.

Design optionally available with USB charger unit integrated into the base.

colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Mains cable black with PE plug, length 2.5 m. ON/OFF and dimmer switch integrated in the stem.
- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Mains cable black with PE plug, length 2.5 m. Prefitted sensor for movement-dependent switching and daylight dependent dimming. ON/OFF and dimmer switch integrated in the stem.
- El. conv.: Electronic converter for LED, 220-240 Volt, 50-60 Hz. Mains cable black with PE plug, length 2.5 m. ON/OFF switch integrated in the stem.



acc. to DIN EN 60598/VDE 0711



### LENSES-S ...

Direct-indirect beam, can be switched and dimmed together. Glare suppression for display-screen compatible workstation lighting.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
						L	B	H		
LENSES-S 1400/xx840	-tba-	-tba-	-tba-	-tba-	840	560	330	1950	0627442	0637442



### LENSES-S ... SEN

Direct-indirect beam, can be switched and dimmed together. Glare suppression for display-screen compatible workstation lighting. Motion and light sensor accommodated in the luminaire head.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI xx=DA Prod. code
						L	B	H	
LENSES-S 1400/xx840 SEN	-tba-	-tba-	-tba-	-tba-	840	560	330	1950	0637493



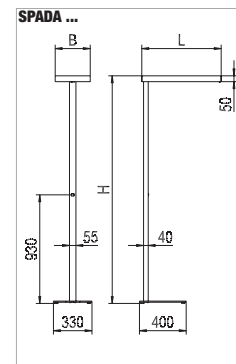
**SPADA-LED ... MPS floor-standing luminaire with microprism panels, optionally with sensor.**

**Design:** Direct-indirect beam floor-standing luminaire with steel head arranged longitudinally to the stand, powder coated in white (similar to RAL9016) / silver (...-SI, similar to RAL 9006). Direct component with microprism panel MPS, external prisms, in UV-stabilised PMMA. Indirect component with clear cover panel in UV-stabilised PMMA. Fitted with RIDI-LED modules, 7800 Lumen. Stem in extruded aluminium with closed cross-section for optimum stability. Height adjustable foot in black powder coated steel with recess to accommodate desk legs.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Mains cable black with PE plug, length 2.5 m. Prefitted sensor for movement-dependent switching and daylight dependent dimming. ON/OFF and dimmer switch integrated in the stem.
- El. conv.: Electronic converter for LED, 220-240 Volt, 50-60 Hz. Mains cable black with PE plug, length 2.5 m. ON/OFF switch integrated in the stem.



**SPADA-LED ... MPS**

Direct-indirect light distribution, dual switching facility.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
SPADA-LED 7800-840 MPS	1xLED-M 14 W+1xLED-M 28 W	6505	48	135	840	680	300	1950	0627232
SPADA-LED 7800-840 MPS-SI	1xLED-M 14 W+1xLED-M 28 W	6505	48	135	840	680	300	1950	0627232SI

**SPADA-LED ... MPS-SEN**


Direct-indirect light distribution, dual switching and dimming facility. Prefitted light level and presence detector in the luminaire head.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
SPADA-LED 7600-840 MPS-SEN	1xLED-M 14 W+1xLED-M 28 W	6505	48	135	840	680	300	1950	0627232/370
SPADA-LED 7600-840 MPS-SEN-SI	1xLED-M 14 W+1xLED-M 28 W	6505	48	135	840	680	300	1950	0627232SI370


# RIDILINA


## continuous lighting system


Chem. material	Polyester	Acrylic glas	Polycarbonate	TPE	TPU
		(abbr. PMMA)	(abbr. PC)	(seals of VLG-F)	(seals of VLPG-F)
Protect. tubes PC					
Acetone	–	–	–	•	•
Aliphatic hydrocarbons	0	0	•	0	•
Alcohol up to 30%	•	•	•	•	•
Alcohol conc.	0	–	–	–	•
Ammoniac 25%	0	•	–	0	•
Accumulator acid	•	•	•	consultation with the manufacturer	0
Aniline	–	–	–	0	0
Aromatic hydrocarbons	0	–	–	–	0
Ether	0	–	–	–	•
Ethylacetate (ester)	–	–	–	–	•
Benzene (cleaner's solvent)	•	•	•	0	•
Benzole	–	–	–	–	•
Beer	•	•	•	•	•
Blood	•	•	•	•	•
Bromine acid	–	–	–	–	0
Chloroform	–	–	–	–	0
Chlorphenol	–	–	–	–	0
Diesel oil, crude oil	•	•	0	–	•
Dioxin	•	–	–	–	0
Acetic acid up to 5%	•	0	•	•	•
Acetic acid up to 30 %	•	–	0	•	0
Glycerine	•	•	0	•	•
Glycol	•	•	•	•	•
Glysantine	•	•	•	•	•
Carbon dioxide	•	•	•	•	•
Carbon monoxide	•	•	•	•	•
Lime milk	•	•	0	consultation with the manufacturer	•
Sodium chloride solution	•	•	•	•	•
Cetone	–	–	–	–	•
Lysol	–	–	–	–	0
Seawater	•	•	•	•	•
Methylene chloride	–	–	–	–	0
Methanol	–	–	–	–	•
Metal salts and their aqueous solutions	•	•	•	•	•
Caustic soda 2 %	0	•	–	0	•
Caustic soda 10 %	–	•	–	0	•
Petrol ether	•	•	0	–	0
Pyridine	–	–	–	–	0
Phenol	–	–	–	–	0
Nitric acid up to 10 %	•	•	•	•	0
10 up to 20 %	0	0	0	0	0
from 20 %	–	–	–	–	–
Hydrochloric acid up to 20 %	•	•	•	•	•
from 20 %	•	•	0	•	–
Sulphuric acid up to 50 %	•	•	•	•	•
up to 70 %	•	0	0	0	0
from 70 %	–	–	–	–	–
Sulphuric acid up to 5 %	0	0	–	0	0
Hydrogen sulphide	•	•	•	0	•
Soapy solution	•	•	•	•	•
Soda	•	•	•	•	•
Synthetic detergent solution	•	•	0	0	•
Turpentine oil	•	0	0	0	•
Carbon tetrachloride	•	–	–	–	0
Water up to 60°	•	•	•	•	•
Hydrogen peroxide up to 40 %	–	–	0	–	0
over 40 %	–	0	0	–	–
Xylene	–	–	–	–	0

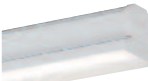
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**Gear tray including LED lamp L-TUBE-T / L-TUBE-TF**

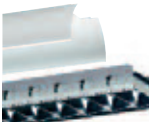
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**Resistance table**

The resistance table provides an overview of the chemical resistance of the most important materials used for luminaire construction.

The chemical resistance specification provided refers to an ambient temperature of appr. 25° C.

- = Resistant
- o = Conditionally resistant
- = Not resistant

# Trunking VLT ...

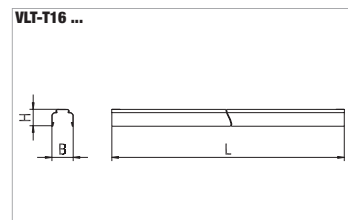
## VLT ...

**Design:** Trunking for surface and pendant mounting. Rigid, profiled trunking made of galvanized steel, white (similar to RAL 9016) or silver synthetic resin coated on both sides. The trunking is available in a one, two or three-length version. Pre-punched knockouts are provided at the top at both ends for cable infeed.

**Through wiring:** Open through wiring designed to permit variable take-off at any optional location. 5, 7 and 11-core versions available. The different versions are colour coded to simplify differentiation and correct mounting.

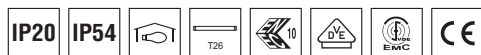
**Mounting:** The trunking elements can be mounted and assembled using fixing accessories. Junction points (not ball-resistant) are available for creating continuous lighting system configurations. The trunking must be completely closed using gear trays or dummy covers.

**Note:** Mounting aid VLTVE-MH (item no.: 0204009) can be used to simplify installation of the electrical feeder and connector.



### Non-standard designs:

- Fastening elements by agreement



### VLT ... -5

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 5 x 2.5 mm<sup>2</sup>. Continuous colour coding in blue. Trunking colour white.

Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT 361-5	Trunking 36W, 1-length through wiring 5x2.5mm <sup>2</sup> , white	1237	64	50	1500013
VLT 362-5	Trunking 36W, 2-length through wiring 5x2.5mm <sup>2</sup> , white	2474	64	50	1500016
VLT 363-5	Trunking 36W, 3-length through wiring 5x2.5mm <sup>2</sup> , white	3711	64	50	1500019
VLT 581-5	Trunking 58W, 1-length through wiring 5x2.5mm <sup>2</sup> , white	1537	64	50	1500022
VLT 582-5	Trunking 58W, 2-length through wiring 5x2.5mm <sup>2</sup> , white	3074	64	50	1500025
VLT 583-5	Trunking 58W, 3-length through wiring 5x2.5mm <sup>2</sup> , white	4611	64	50	1500028



### VLT ... -7

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 5 x 2.5 mm<sup>2</sup> and 2 x 1.5 mm<sup>2</sup> for control cables or emergency lighting circuit. Continuous colour coding in purple. Trunking colour white.

Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT 361-7	Trunking 36W, 1-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , white	1237	64	50	1500014
VLT 362-7	Trunking 36W, 2-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , white	2474	64	50	1500017
VLT 363-7	Trunking 36W, 3-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , white	3711	64	50	1500020
VLT 581-7	Trunking 58W, 1-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , white	1537	64	50	1500023
VLT 582-7	Trunking 58W, 2-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , white	3074	64	50	1500026
VLT 583-7	Trunking 58W, 3-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , white	4611	64	50	1500029



### VLT ... -11

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 5 x 2.5 mm<sup>2</sup> and 6 x 1.5 mm<sup>2</sup> for control cables and 2 separate emergency lighting circuits. Continuous colour coding in green. Trunking colour white.

Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT 361-11	Trunking 36W, 1-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , white	1237	64	50	1500015
VLT 362-11	Trunking 36W, 2-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , white	2474	64	50	1500018
VLT 363-11	Trunking 36W, 3-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , white	3711	64	50	1500021
VLT 581-11	Trunking 58W, 1-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , white	1537	64	50	1500024
VLT 582-11	Trunking 58W, 2-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , white	3074	64	50	1500027
VLT 583-11	Trunking 58W, 3-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , white	4611	64	50	1500030



### VLT ... -5 SI

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 5 x 2.5 mm<sup>2</sup>. Continuous colour coding in blue. Trunking colour silver.

Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT 361-5 SI	Trunking 36W, 1-length through wiring 5x2.5mm <sup>2</sup> , silver	1237	64	50	1500013SI
VLT 362-5 SI	Trunking 36W, 2-length through wiring 5x2.5mm <sup>2</sup> , silver	2474	64	50	1500016SI
VLT 363-5 SI	Trunking 36W, 3-length through wiring 5x2.5mm <sup>2</sup> , silver	3711	64	50	1500019SI
VLT 581-5 SI	Trunking 58W, 1-length through wiring 5x2.5mm <sup>2</sup> , silver	1537	64	50	1500022SI
VLT 582-5 SI	Trunking 58W, 2-length through wiring 5x2.5mm <sup>2</sup> , silver	3074	64	50	1500025SI
VLT 583-5 SI	Trunking 58W, 3-length through wiring 5x2.5mm <sup>2</sup> , silver	4611	64	50	1500028SI



### VLT ... -7 SI

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 5 x 2.5 mm<sup>2</sup> and 2 x 1.5 mm<sup>2</sup> for control cables or emergency lighting circuit. Continuous colour coding in purple. Trunking colour silver.

Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT 361-7 SI	Trunking 36W, 1-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , silver	1237	64	50	1500014SI
VLT 362-7 SI	Trunking 36W, 2-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , silver	2474	64	50	1500017SI
VLT 363-7 SI	Trunking 36W, 3-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , silver	3711	64	50	1500020SI
VLT 581-7 SI	Trunking 58W, 1-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , silver	1537	64	50	1500023SI
VLT 582-7 SI	Trunking 58W, 2-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , silver	3074	64	50	1500026SI
VLT 583-7 SI	Trunking 58W, 3-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , silver	4611	64	50	1500029SI



**VLT ... -11 SI**

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 5 x 2.5 mm<sup>2</sup> and 6 x 1.5 mm<sup>2</sup> for control cables and 2 separate emergency lighting circuits. Continuous colour coding in green. Trunking colour silver.

Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT 361-11 SI	Trunking 36W, 1-igth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , silver	1237	64	50	1500015SI
VLT 362-11 SI	Trunking 36W, 2-igth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , silver	2474	64	50	1500018SI
VLT 363-11 SI	Trunking 36W, 3-igth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , silver	3711	64	50	1500021SI
VLT 581-11 SI	Trunking 58W, 1-igth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , silver	1537	64	50	1500024SI
VLT 582-11 SI	Trunking 58W, 2-igth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , silver	3074	64	50	1500027SI
VLT 583-11 SI	Trunking 58W, 2-igth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , silver	4611	64	50	1500030SI

**Construction of continuous lighting systems**

**Components required for a continuous lighting system with n units T26/58 W.**

For the necessary optical control components, see under "Optical control and Accessories".

Length appr. [m]	Units	Trunking		Trunking end cap	Trunking connector*	Pendant	Gear tray	Length appr. [m]	Units	Trunking		Trunking end cap	Trunking connector*	Pendant	Gear tray
		582	583							582	583				
3,07	2	1	-	2	-	2	2	26,13	17	1	5	2	5	10	17
4,61	3	-	1	2	-	3	3	27,67	18	-	6	2	5	11	18
6,15	4	2	-	2	1	3	4	29,20	19	2	5	2	6	12	19
7,69	5	1	1	2	1	4	5	30,74	20	1	6	2	6	12	20
9,22	6	-	2	2	1	4	6	32,28	21	-	7	2	6	13	21
10,76	7	2	1	2	2	5	7	33,81	22	2	6	2	7	13	22
12,30	8	1	2	2	2	5	8	35,35	23	1	7	2	7	14	23
13,83	9	-	3	2	2	6	9	36,89	24	-	8	2	7	14	24
15,37	10	2	2	2	3	7	10	38,43	25	2	7	2	8	15	25
16,91	11	1	3	2	3	7	11	39,96	26	1	8	2	8	15	26
18,44	12	-	4	2	3	8	12	41,50	27	-	9	2	8	16	27
19,98	13	2	3	2	4	8	13	43,04	28	2	8	2	9	16	28
21,52	14	1	4	2	4	9	14	44,57	29	1	9	2	9	17	29
23,06	15	-	5	2	4	9	15	46,11	30	-	10	2	9	17	30
24,59	16	2	4	2	5	10	16								

\* For IP 54 rated continuous lighting systems, VLTVD seals must be additionally ordered.

**Components required for a continuous lighting system with n units T16/80 W.**

For the necessary optical control components, see under "Optical control and Accessories".

Length appr. [m]	Units	Trunking		Trunking end cap	Trunking connector*	Pendant	Gear tray	Length appr. [m]	Units	Trunking		Trunking end cap	Trunking connector*	Pendant	Gear tray
		802	803							802	803				
2,97	2	1	-	2	-	2	2	25,26	17	1	5	2	5	10	17
4,46	3	-	1	2	-	3	3	26,75	18	-	6	2	5	10	18
5,94	4	2	-	2	1	3	4	28,23	19	2	5	2	6	11	19
7,43	5	1	1	2	1	4	5	29,72	20	1	6	2	6	11	20
8,92	6	-	2	2	1	4	6	31,21	21	-	7	2	6	12	21
10,40	7	2	1	2	2	5	7	32,69	22	2	6	2	7	12	22
11,89	8	1	2	2	2	5	8	34,18	23	1	7	2	7	13	23
13,37	9	-	3	2	2	6	9	35,66	24	-	8	2	7	13	24
14,86	10	2	2	2	3	6	10	37,15	25	2	7	2	8	14	25
16,35	11	1	3	2	3	7	11	38,64	26	1	8	2	8	14	26
17,83	12	-	4	2	3	7	12	40,12	27	-	9	2	8	15	27
19,32	13	2	3	2	4	8	13	41,61	28	2	8	2	9	15	28
20,80	14	1	4	2	4	8	14	43,09	29	1	9	2	9	16	29
22,29	15	-	5	2	4	9	15	44,58	30	-	10	2	9	17	30
23,78	16	2	4	2	5	9	16								

\* For IP 54 rated continuous lighting systems, VLTVD seals must be additionally ordered.

## Dummy covers VLB ..., VLSB ..., VLBK ..., VLSBK ...

### Dummy covers VLB ..., VLSB ..., VLBK ..., VLSBK ...



#### VLB ...

Dummy element in profiled sheet steel, for mounting instead of a gear tray. Reflectors can be mounted on the dummy cover. Twist lock catch as for the gear tray. To comply with protection rating IP 20.

Model	Description	Prod. code
VLB .36	Dummy cover, L=1237 mm, IP20, white	1500049
VLB .36 SI	Dummy cover, L=1237 mm, IP20, silver	1500049SI
VLB .58	Dummy cover, L=1537 mm, IP20, white	1500050
VLB .58 SI	Dummy cover, L=1537 mm, IP20, silver	1500050SI



#### VLSB ...

Dummy element in profiled sheet steel, for mounting instead of a gear tray. Reflectors can be mounted on the dummy cover. Twist lock catch as for the gear tray. Includes seals. To comply with protection rating IP 54.

Model	Description	Prod. code
VLSB .36	Dummy cover, L=1237, IP54, white	1500051
VLSB .36 SI	Dummy cover, L=1237, IP54, silver	1500051SI
VLSB .58	Dummy cover, L=1537, IP54, white	1500052
VLSB .58 SI	Dummy cover, L=1537, IP54, silver	1500052SI



#### VLBK ...

Dummy element for VLT... in extruded plastic. Extruded profile clips into the trunking. For cutting to length as required. Colour white or silver, protection rating IP 20. In conjunction with VLSBKD, can also be used for IP54.

Model	Description	Prod. code
VLBK 361	Dummy cover, L=1237mm, IP20, white plastic	1205188
VLBK 361 SI	Dummy cover, L=1237mm, IP20, silver plastic	1205188SI
VLBK 581	Dummy cover, L=1537mm, IP20, white plastic	1205105
VLBK 581 SI	Dummy cover, L=1537mm, IP20, silver plastic	1205105SI
VLBK 583	Dummy cover, L=4611mm, IP20, white plastic	1205008
VLBK 583 SI	Dummy cover, L=4611mm, IP20, silver plastic	1205008SI



#### VLSBK ...

Dummy element in extruded plastic. Extruded profile clips into the trunking. For cutting to length as required. Includes seals VLSBKD. To comply with protection rating IP 54.

Note: By sawing the VLBK 583 to length and using additional seals VLSBKD, other variable lengths are possible.

Model	Description	Prod. code
VLSBK 361	Dummy cover, L=1227mm, IP54, white plastic	1207187
VLSBK 361 SI	Dummy cover, L=1227mm, IP54, silver plastic	1207187SI
VLSBK 581	Dummy cover, L=1527mm, IP54, white plastic	1207188
VLSBK 581 SI	Dummy cover, L=1527mm, IP54, silver plastic	1207188SI



VLBKK



VLSBKD

### Accessories

Model	Description	Prod. code
VLBKK-AP	Safety clamp for VLBK, natural 1 pc	0206551AP
VLG-KB	Safety clamp for VLB, white, 1 pc.	0206905
VLG-KB-AG	Safety clamp for VLB, silver, 1 pc.	0206905AG
VLSBKD	Seal for dummy cover VLBK for IP54, 1 pc	1207191
VLSBKD-AD	Dummy cover seal VLBK...-SI for IP54, 1 pc.	1207191AD



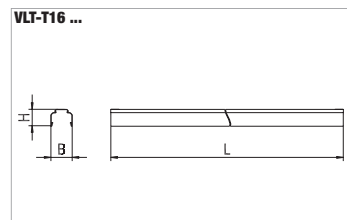
VLT-T16

**Design:** Trunking for surface and pendant mounting. Rigid, profiled trunking made of galvanized steel, artificial resin coated white (similar RAL 9016), silver (similar to RAL 9006) or black (similar to RAL 9005) on both sides. The trunking is available in a one, two or three-length version. Pre-punched knockouts are provided at the top at both ends for cable infeed.

**Through wiring:** Open through wiring designed to permit variable take-off at any optional location. 5, 7 and 11-core versions available. The different versions are colour coded to simplify differentiation and correct mounting.

**Mounting:** The trunking elements can be mounted and assembled using fixing accessories. Junction points (not ball-resistant) are available for creating continuous lighting system configurations. The trunking must be completely closed using gear trays or dummy covers.

Note: Mounting aid VLTVE-MH (Item no.: 0204009) can be used to simplify installation of the electrical feeder and connector.



**Non-standard designs:**

- Fastening elements by agreement



**VLT-T16 ... -5**

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 5 x 2.5 mm<sup>2</sup>. Continuous colour coding in blue. Trunking colour white.

Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT-T16 541-5	Trunking 54W, 1-length with through wiring 5x2.5mm <sup>2</sup> , white	1186	64	50	1500031
VLT-T16 542-5	Trunking 54W, 2-length with through wiring 5x2.5mm <sup>2</sup> , white	2372	64	50	1500034
VLT-T16 543-5	Trunking 54W, 3-length with through wiring 5x2.5mm <sup>2</sup> , white	3558	64	50	1500037
VLT-T16 801-5	Trunking 80W, 1-length with through wiring 5x2.5mm <sup>2</sup> , white	1486	64	50	1500040
VLT-T16 802-5	Trunking 80W, 2-length with through wiring 5x2.5mm <sup>2</sup> , white	2972	64	50	1500043
VLT-T16 803-5	Trunking 80W, 3-length with through wiring 5x2.5mm <sup>2</sup> , white	4458	64	50	1500046



**VLT-T16 ... -7**

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 5 x 2.5 mm<sup>2</sup> and 2 x 1.5 mm<sup>2</sup> for control cables or emergency lighting circuit. Continuous colour coding in purple. Trunking colour white.

Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT-T16 541-7	Trunking 54W, 1-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , white	1186	64	50	1500032
VLT-T16 542-7	Trunking 54W, 2-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , white	2372	64	50	1500035
VLT-T16 543-7	Trunking 54W, 3-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , white	3558	64	50	1500038
VLT-T16 801-7	Trunking 80W, 1-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , white	1486	64	50	1500041
VLT-T16 802-7	Trunking 80W, 2-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , white	2972	64	50	1500044
VLT-T16 803-7	Trunking 80W, 3-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , white	4458	64	50	1500047



**VLT-T16 ... -11**

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 5 x 2.5 mm<sup>2</sup> and 6 x 1.5 mm<sup>2</sup> for control cables and 2 separate emergency lighting circuits. Continuous colour coding in green. Trunking colour white.

Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT-T16 541-11	Trunking 54W, 1-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , white	1186	64	50	1500033
VLT-T16 542-11	Trunking 54W, 2-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , white	2372	64	50	1500036
VLT-T16 543-11	Trunking 54W, 3-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , white	3558	64	50	1500039
VLT-T16 801-11	Trunking 80W, 1-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , white	1486	64	50	1500042
VLT-T16 802-11	Trunking 80W, 2-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , white	2972	64	50	1500045
VLT-T16 803-11	Trunking 80W, 3-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , white	4458	64	50	1500048



**VLT-T16 ... -11/2,5**

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 11 x 2.5 mm<sup>2</sup>. Continuous colour coding in green. Trunking colour white.

Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT-T16 541-11/2,5	Trunking 54W, 1-length with through wiring 11x2.5mm <sup>2</sup> , white	1186	64	50	1500090
VLT-T16 542-11/2,5	Trunking 54W, 2-length with through wiring 11x2.5mm <sup>2</sup> , white	2372	64	50	1500091
VLT-T16 543-11/2,5	Trunking 54W, 3-length with through wiring 11x2.5mm <sup>2</sup> , white	3558	64	50	1500092
VLT-T16 801-11/2,5	Trunking 80W, 1-length with through wiring 11x2.5mm <sup>2</sup> , white	1486	64	50	1500093
VLT-T16 802-11/2,5	Trunking 80W, 2-length with through wiring 11x2.5mm <sup>2</sup> , white	2972	64	50	1500094
VLT-T16 803-11/2,5	Trunking 80W, 3-length with through wiring 11x2.5mm <sup>2</sup> , white	4458	64	50	1500095





### VLT-T16 ... -5 SI

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 5 x 2.5 mm<sup>2</sup>. Continuous colour coding in blue. Trunking colour silver.

Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT-T16 541-5 SI	Trunking 54W, 1-length with through wiring 5x2.5mm <sup>2</sup> , silver	1186	64	50	1500031SI
VLT-T16 542-5 SI	Trunking 54W, 2-length with through wiring 5x2.5mm <sup>2</sup> , silver	2372	64	50	1500034SI
VLT-T16 543-5 SI	Trunking 54W, 3-length with through wiring 5x2.5mm <sup>2</sup> , silver	3558	64	50	1500037SI
VLT-T16 801-5 SI	Trunking 80W, 1-length with through wiring 5x2.5mm <sup>2</sup> , silver	1486	64	50	1500040SI
VLT-T16 802-5 SI	Trunking 80W, 2-length with through wiring 5x2.5mm <sup>2</sup> , silver	2972	64	50	1500043SI
VLT-T16 803-5 SI	Trunking 80W, 3-length with through wiring 5x2.5mm <sup>2</sup> , silver	4458	64	50	1500046SI



### VLT-T16 ... -7 SI

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 5 x 2.5 mm<sup>2</sup> and 2 x 1.5 mm<sup>2</sup> for control cables or emergency lighting circuit. Continuous colour coding in purple. Trunking colour silver.

Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT-T16 541-7 SI	Trunking 54W, 1-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , silver	1186	64	50	1500032SI
VLT-T16 542-7 SI	Trunking 54W, 2-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , silver	2372	64	50	1500035SI
VLT-T16 543-7 SI	Trunking 54W, 3-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , silver	3558	64	50	1500038SI
VLT-T16 801-7 SI	Trunking 80W, 1-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , silver	1486	64	50	1500041SI
VLT-T16 802-7 SI	Trunking 80W, 2-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , silver	2972	64	50	1500044SI
VLT-T16 803-7 SI	Trunking 80W, 3-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , silver	4458	64	50	1500047SI



### VLT-T16 ... -11 SI

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 5 x 2.5 mm<sup>2</sup> and 6 x 1.5 mm<sup>2</sup> for control cables and 2 separate emergency lighting circuits. Continuous colour coding in green. Trunking colour silver.

Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT-T16 541-11 SI	Trunking 54W, 1-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , silver	1186	64	50	1500033SI
VLT-T16 542-11 SI	Trunking 54W, 2-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , silver	2372	64	50	1500036SI
VLT-T16 543-11 SI	Trunking 54W, 3-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , silver	3558	64	50	1500039SI
VLT-T16 801-11 SI	Trunking 80W, 1-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , silver	1486	64	50	1500042SI
VLT-T16 802-11 SI	Trunking 80W, 2-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , silver	2972	64	50	1500045SI
VLT-T16 803-11 SI	Trunking 80W, 3-lgth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , silver	4458	64	50	1500048SI



### VLT-T16 ... -11/2,5 SI

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 11 x 2.5 mm<sup>2</sup>. Continuous colour coding in green. Trunking colour silver.

Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT-T16 541-11/2,5 SI	Trunking 54W, 1-length with through wiring 11x2.5mm <sup>2</sup> , silver	1186	64	50	1500090SI
VLT-T16 542-11/2,5 SI	Trunking 54W, 2-length with through wiring 11x2.5mm <sup>2</sup> , silver	2372	64	50	1500091SI
VLT-T16 543-11/2,5 SI	Trunking 54W, 3-length with through wiring 11x2.5mm <sup>2</sup> , silver	3558	64	50	1500092SI
VLT-T16 801-11/2,5 SI	Trunking 80W, 1-length with through wiring 11x2.5mm <sup>2</sup> , silver	1486	64	50	1500093SI
VLT-T16 802-11/2,5 SI	Trunking 80W, 2-length with through wiring 11x2.5mm <sup>2</sup> , silver	2972	64	50	1500094SI
VLT-T16 803-11/2,5 SI	Trunking 80W, 3-length with through wiring 11x2.5mm <sup>2</sup> , silver	4458	64	50	1500095SI



### VLT-T16 ... -5 SW

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 5 x 2.5 mm<sup>2</sup>. Continuous colour coding in blue. Trunking colour black.

Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT-T16 541-5 SW	Trunking 54W, 1-length with through wiring 5x2.5mm <sup>2</sup> , black	1186	64	50	1500031SW
VLT-T16 542-5 SW	Trunking 54W, 2-length with through wiring 5x2.5mm <sup>2</sup> , black	2372	64	50	1500034SW
VLT-T16 543-5 SW	Trunking 54W, 3-length with through wiring 5x2.5mm <sup>2</sup> , black	3558	64	50	1500037SW
VLT-T16 801-5 SW	Trunking 80W, 1-length with through wiring 5x2.5mm <sup>2</sup> , black	1486	64	50	1500040SW
VLT-T16 802-5 SW	Trunking 80W, 2-length with through wiring 5x2.5mm <sup>2</sup> , black	2972	64	50	1500043SW
VLT-T16 803-5 SW	Trunking 80W, 3-length with through wiring 5x2.5mm <sup>2</sup> , black	4458	64	50	1500046SW



### VLT-T16 ... -7 SW

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 5 x 2.5 mm<sup>2</sup> and 2 x 1.5 mm<sup>2</sup> for control cables or emergency lighting circuit. Continuous colour coding in purple. Trunking colour black.

Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT-T16 541-7 SW	Trunking 54W, 1-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , black	1186	64	50	1500032SW
VLT-T16 542-7 SW	Trunking 54W, 2-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , black	2372	64	50	1500035SW
VLT-T16 543-7 SW	Trunking 54W, 3-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , black	3558	64	50	1500038SW
VLT-T16 801-7 SW	Trunking 80W, 1-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , black	1486	64	50	1500041SW
VLT-T16 802-7 SW	Trunking 80W, 2-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , black	2972	64	50	1500044SW
VLT-T16 803-7 SW	Trunking 80W, 3-lgth. thr. wiring 5x2.5mm <sup>2</sup> +2x1.5mm <sup>2</sup> , black	4458	64	50	1500047SW



**VLT-T16 ... -11 SW**

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 5 x 2.5 mm<sup>2</sup> and 6 x 1.5 mm<sup>2</sup> for control cables and 2 separate emergency lighting circuits. Continuous colour coding in green. Trunking colour black.

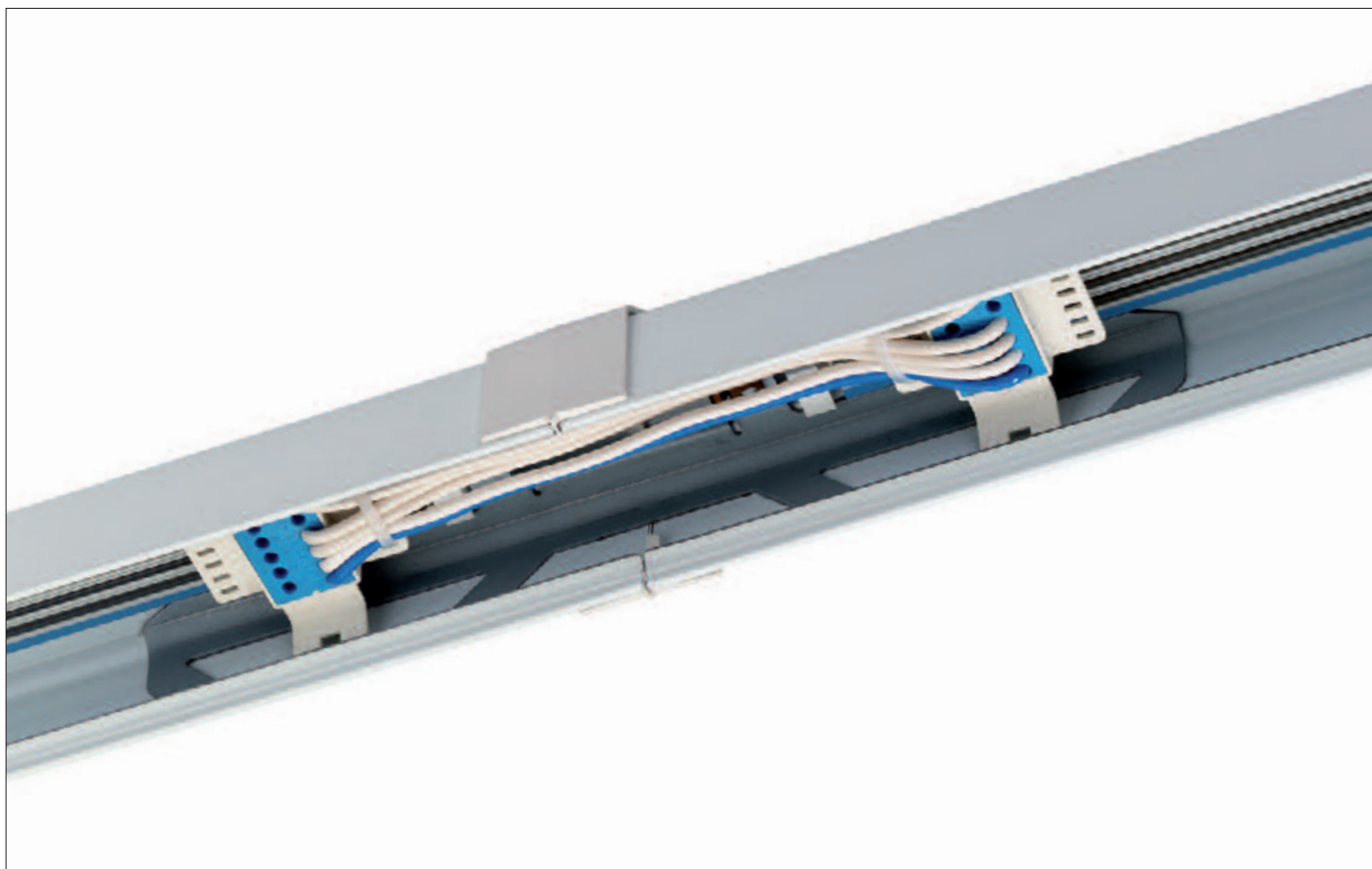
Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT-T16 541-11 SW	Trunking 54W, 1-igth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , black	1186	64	50	1500033SW
VLT-T16 542-11 SW	Trunking 54W, 2-igth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , black	2372	64	50	1500036SW
VLT-T16 543-11 SW	Trunking 54W, 3-igth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , black	3558	64	50	1500039SW
VLT-T16 801-11 SW	Trunking 80W, 1-igth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , black	1486	64	50	1500042SW
VLT-T16 802-11 SW	Trunking 80W, 2-igth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , black	2972	64	50	1500045SW
VLT-T16 803-11 SW	Trunking 80W, 3-igth. thr. wiring 5x2.5mm <sup>2</sup> +6x1.5mm <sup>2</sup> , black	4458	64	50	1500048SW



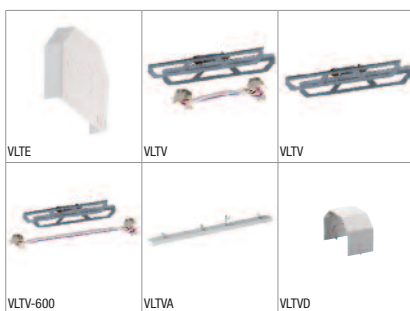
**VLT-T16 ... -11/2,5 SW**

For use with continuous lighting systems complying with protection rating IP20 and IP54. Through wiring with flexible take-off 11 x 2.5 mm<sup>2</sup>. Continuous colour coding in green. Trunking colour black.

Model	Description	Dimens. [mm]			Prod. code
		L	B	H	
VLT-T16 541-11/2,5 SW	Trunking 54W, 1-length with through wiring 11x2.5mm <sup>2</sup> , black	1186	64	50	1500090SW
VLT-T16 542-11/2,5 SW	Trunking 54W, 2-length with through wiring 11x2.5mm <sup>2</sup> , black	2372	64	50	1500091SW
VLT-T16 543-11/2,5 SW	Trunking 54W, 3-length with through wiring 11x2.5mm <sup>2</sup> , black	3558	64	50	1500092SW
VLT-T16 801-11/2,5 SW	Trunking 80W, 1-length with through wiring 11x2.5mm <sup>2</sup> , black	1486	64	50	1500093SW
VLT-T16 802-11/2,5 SW	Trunking 80W, 2-length with through wiring 11x2.5mm <sup>2</sup> , black	2972	64	50	1500094SW
VLT-T16 803-11/2,5 SW	Trunking 80W, 3-length with through wiring 11x2.5mm <sup>2</sup> , black	4458	64	50	1500095SW



## Accessories



### Trunking connectors and end caps

Model	Description	Prod. code
VLG-FK	Safety clamp for VLG-F, white 1 pc.	0206633
VLG-FSK	Safety clamp for VLG-FS, white, 1 pc.	0206806
VLTE	Trunking end cap, white, plastic, 1 pc	0205791
VLTE SI	Trunking end cap, silver, plastic, 1 pc	0205791SI
VLTE SW	End cap for trunking, black, plastic 1 pc.	0205791SW
VLTV	IP20 and IP54 trunking connector, 1 pc	1205790
VLTV-11	Trunking connector for 11-core thr. wiring IP20/54, 1 pc	1207046
VLTV-11-600	Trunking connector f.11-core thr. wiring IP20/54, L=600 1 pc	1207052
VLTV-11/2,5	Trunking connector for 11x2,5 <sup>2</sup> -core thr. wiring IP20/54, 1 pc	1207062
VLTV-11/2,5-600	Trunking connector f.11x2,5 <sup>2</sup> -core thr. wiring IP20/54, L=600 1 pc	1207063
VLTV-5	Trunking connector for 5-core thr. wiring IP20/54, 1 pc	1207044
VLTV-5-600	Trunking connector f. 5-core thr. wiring IP20/54, L=600 1 pc	1207050
VLTV-7	Trunking connector for 7-core thr. wiring IP20/54, 1 pc	1207045
VLTV-7-600	Trunking connector f. 7-core thr. wiring IP20/54, L=600 1 pc	1207051
VLTVA	External trunking connector IP20	0206548
VLTVA-AG	Ext. trunking connector IP20, silver similar to RAL 9006	0206548AG
VLTVD	IP 54 trunking seal, 1 pc	1205789
VLTVD-AD	Trunking seal silver for IP54, 1 pc.	1205789AD
VLTVD-SW	Trunking seal black for IP54, 1 pc.	1205789SW
VLTVE-MH	Mounting aid for simpler mounting of the electric connector, 1 pc.	0204009



### Electrical accessories

Model	Description	Prod. code
VLKL	Cable channel with clips, L=4600mm	0205775
VLNE-11/2,5F	Mains conn. wiring 11-core, stranded IP20/54, black, 1pc.	1207066
VLNE-11/2,5F SW	Netzeinspeist. Stromfg. 11pol, feindr. IP20/54, schwarz, 1Stk	1207066SW
VLNE-11F	Mains connector 11-core, stranded IP20/54, 1 pc	1207049
VLNE-11F SI	Mains conn. wiring 11-core, stranded IP20/54, silver, 1pc.	1207049SI
VLNE-11F SW	Mains conn. wiring 11-core, stranded IP20/54, black, 1pc.	1207049SW
VLNE-11S	Mains connector 11-core, single wire IP20/54, 1 pc	1207043
VLNE-11S SI	Mains conn. wiring 11-core, single w. IP20/54, silver, 1 pc.	1207043SI
VLNE-11S SW	Mains conn. wiring 11-core, single w. IP20/54, black, 1pc.	1207043SW
VLNE-5F	Mains connector 5-core, stranded IP20/54, 1 pc	1207047
VLNE-5F SW	Mains conn. wiring 5-core, stranded IP20/54, black, 1pc.	1207047SW
VLNE-5S	Mains connector 5-core, single wire IP20/54, 1 pc	1207041
VLNE-5S SW	Mains conn. wiring 5-core, single wire IP20/54, black, 1 pc.	1207041SW
VLNE-7F	Mains connector 7-core, stranded IP20/54, 1 pc	1207048
VLNE-7F SW	Mains conn. wiring 7-core, stranded IP20/54, black, 1pc.	1207048SW
VLNE-7S	Mains connector 7-core, single wire IP20/54, 1 pc	1207042
VLNE-7S SW	Mains conn. wiring 7-core, single w. IP20/54, black, 1 pc.	1207042SW
VLTLA	Ext. cable retainer max. 2 x dia.13mm + 1 x dia.7mm, 1 pc	0205760
VLTJI	Internal cable retainer, 10 units, observe instructions	0205761
VLTJK	Internal cable retainer, plastic, 10 units, observe instructions	0208310
VLTVE-11	Trunking conn. electr. f. 11-core wiring IP20/54, 1 pc.	1207058
VLTVE-11-600	Trunking conn. electr. f.11-core thr. wiring IP20/54, L=600 1 pc	1207061
VLTVE-11/2,5	Trunking conn. electr. f. 11x2,5 <sup>2</sup> wiring IP20/54, 1 pc.	1207064
VLTVE-11/2,5-600	Trunking conn. electr. f.11x2,5 <sup>2</sup> -core thr. wiring IP20/54, L=600 1 pc	1207065
VLTVE-5	Trunking conn. electr. for 5-core wiring IP20/54, 1 pc.	1207056
VLTVE-7	Trunking conn. electr. for 7-core wiring IP20/54, 1 pc.	1207057
VLTVE-MH	Mounting aid for simpler mounting of the electric connector, 1 pc.	0204009
ZAL 3x1,5/1,5M-T	Clear mains cable, 3x1.5mm <sup>2</sup> , 1.5 metre	0207977
ZAL 3x0,75/1,5M-T	Clear mains cable, 3x0.75mm <sup>2</sup> , 1.5 metre	0203579
ZAL 5x1,5/1,5M-T	Clear mains cable, 5x1.5mm <sup>2</sup> , 1.5 metre	0207978
ZAL 5x0,75/1,5M-T	Clear mains cable, 5x0.75mm <sup>2</sup> , 1.5 metre	0203580



### Accessories for mounting with junction points

Model	Description	Prod. code
UKN-AG	Univ. junction, D=120, H=60 silver, sim. to RAL 9006 1 pc	0203253AG
UKN-VLT	Universal junction, D=120, H=60, cont.luminaire white 1 pc.	0203253BA
UKNA-VLT-11 AG-D	Univ. junction adapter VLT, silver sim. RAL 9006, t.w. 11x1.5	1207285AG
UKNA-VLT-11 AG-E	Univ. junction adapter VLT, silver sim. RAL 9006, t.w. 11x1.5	1207284AG
UKNA-VLT-11 D	Univ. junction adapter VLT, white, t.w.11x1.5	1207285
UKNA-VLT-11 E	Univ. junction adapter VLT, dist.=250, white t.w. 11x1.5	1207284
UKNA-VLT-7 AG-D	Univ. junction adapter VLT, silver sim. RAL 9006, t.w. 7x1.5	1207286AG
UKNA-VLT-7 AG-E	Univ. junction adapter VLT, silver sim. RAL 9006, t.w. 7x1.5	1207283AG
UKNA-VLT-7 D	Univ. junction adapter VLT, white, TW 1.5 mm <sup>2</sup> t.w. 7x1.5	1207286
UKNA-VLT-7 E	Univ. junction adapter VLT, dist.=250, white, t.w. 7x1.5	1207283
UKND	Ceiling fixing kit for UKN	0208105
UKNR-VL 050	Tube pendant for univ. junct., canopy, white, 0.5 m, 1 pc	0205031
UKNR-VL 100	Tube pendant for univ. junct., canopy, white, 1.0 m, 1 pc	0205032
UKNS	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0210958
UKNS 3M	Wire pendant w. ceiling fixing and wire clamp 3.0m, 1 pc	0215942
UKNS 5M	Wire pendant w. ceiling fixing and wire clamp 5.0m, 1 pc	0215943
UKNSB	Wire pendant w. domed canopy, white, wire clamp, 1.5m, 1 pc	0210959



## Accessories for ceiling or suspended installation

Model	Description	Prod. code	
SLKB	SLKB 3-7	Quick fixing for L and T supports, A=3 - 7mm, with loop	0200907
	SLKB 8-13	Quick fixing for L and T supports, A=8- 13mm, with loop	0200908
	SLKBT	Quick fixing for system ceilings, with loop	0200910
	SLKBT M6x16	Quick fixing for system ceilings, with thread M6x16	0200912
	SLKBTR M6	Quick fixing for trapezoidal sections, loop bolt M6	0201525
	SLKG	S chain link, max.20kg, per unit	0200906
	TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
SLKBTR M6	VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
	VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1 pc	0205888
	VLSPS	Tension hook, 30mm adjustment path, max.20kg, 1 pc	0205889
	VLSPSO-KH	Tension hook w. loop and carabiner adj. 50 mm, max. 20kg 1pc	0208347
	VLTHA	Chain suspension hanger adjustable nut, 1 pc	0205792
	VLTHB	Chain suspension hanger, quick adjustment, 1 pc	0205685
	VLTHD	Hanger for ceiling mounting, max. 20kg, 1 pc	0205794
	VLTHD-H10	Hanger for ceiling mounting H=10mm, max. 20kg, 1 pc.	0205930
	VLTHD-H10-WS	Hanger for ceiling mounting H=10mm, white max. 20kg, 1 pc.	0205930BA
	VLTHDK	Chain suspension hanger for VLRFAS, 1 pc	0205223
	VLTHDS	Chain suspension hanger, angular mounting, max 20kg, 1 pc	0205222
	VLTHP	Hanger for 13.5mm dia. pendant tubes, 1pc	0205793
	VLTHS	Hanger with wire 1.5m + ring loop, 1 pc.	0205922
	VLTHS-SW	Hanger with cable 1.5m + ring loop, black bow, 1 pc.	0205922SW
	VLTHSB	Hanger with wire 1.5m + canopy, 1 pc.	0205923
	VLTHSB-SI	Hanger with wire 1.5m + canopy, silver, 1 pc.	0205923SI
	VLTHSD	Hanger with wire 1.5m + ceiling fixing, 1 pc.	0205921
	VLTHSD-SW	Hanger with cable 1.5m + ceiling fixture, black bow, 1 pc	0205921SW
	VLTHSS	Hanger with wire 1.5m + ceiling fixing, inclined ceilings, 1 pc	0205920
	VLTHST	Wire pend. f. syst. ceil. 24-26mm T, max 10kg, 1.5m, 1 pc	0207943
	VLTHST-SW	Wire pend., sys. ceilings w. T 24-26mm, max 10kg, 1.5m, 1 pc.	0207943SW
	VLTHT	Hanger for T bar system ceilings, 1 pc	0205788
	VLTHT 0°	Hanger for system ceilings, below T bar, no gap	0208286
	VLTHT 90°	Hanger for system ceilings, 90° to T bar, no gap	0208285
	VLTHT-SW	Hanger for system ceilings, T-profile, black, 1 pc.	0205788SW
	VLTKS	Hanger f. chain, angled mounting to 45° w. 1 clamping screw	0205886
	VLTW	Hanger for angled mounting 30°, 45°, 60° ceiling (wall), 1 pc.	0205885
	VLTWFK	Chain hanger for VLRFW, 1pc	0205881
	VLTWFS	Wire hanger for VLRFW 1pc	0205880
	VLTWFS-D	Wire hanger + ceiling fixing for VLRFW, 1 pc	0206538
	ZRPH 050	Tube pendant, domed canopy, white, L=0.5m, 1 pc	0205020
	ZRPH 100	Tube pendant, domed canopy, white, L=1.0 m, 1 pc	0205021
	ZRPK	Tube pendant 114mm with canopy 1 set = 1pc	0200483

## Dummy covers VLB-T16 ..., VLSB-T16 ..., VLBK-T16 ..., VLSBK-T16 ...

### Dummy covers VLB-T16 ..., VLSB-T16 ..., VLBK-T16 ..., VLSBK-T16 ...



#### VLB-T16 ...

Dummy element in profiled sheet steel, for mounting instead of a gear tray. Reflectors can be mounted on the dummy cover. Twist lock catch as for the gear tray. To comply with protection rating IP 20.

Model	Description	Prod. code
VLB-T16 .54	Dummy cover, L=1186 mm, IP20, white	1500053
VLB-T16 .54 SI	Dummy cover, L=1186 mm, IP20, silver	1500053SI
VLB-T16 .80	Dummy cover, L=1486 mm, IP20, white	1500054
VLB-T16 .80 SI	Dummy cover, L=1486 mm, IP20, silver	1500054SI



#### VLSB-T16 ...

Dummy element in profiled sheet steel, for mounting instead of a gear tray. Reflectors can be mounted on the dummy cover. Twist lock catch as for the gear tray. Includes seals. To comply with protection rating IP 54.

Model	Description	Prod. code
VLSB-T16 .54	Dummy cover, L=1186, IP54, white	1500055
VLSB-T16 .54 SI	Dummy cover, L=1186, IP54, silver	1500055SI
VLSB-T16 .80	Dummy cover, L=1486, IP54, white	1500056
VLSB-T16 .80 SI	Dummy cover, L=1486, IP54, silver	1500056SI



#### VLBK-T16 ...

Extruded plastic profile. Clips to the trunking, sawn to length on site.

Note: By sawing the VLBK-T16 803 to length and using additional seals VLSBKD, other variable lengths are possible.

Model	Description	Prod. code
VLBK-T16 541	Dummy cover, L=1186mm, IP20, white plastic	1207116
VLBK-T16 541 SI	Dummy cover, L=1186mm, IP20, silver plastic	1207116SI
VLBK-T16 541 SW	Dummy cover, L=1186mm, IP20, black plastic	1207116SW
VLBK-T16 801	Dummy cover, L=1486mm, IP20, white plastic	1207118
VLBK-T16 801 SI	Dummy cover, L=1486mm, IP20, silver plastic	1207118SI
VLBK-T16 801 SW	Dummy cover, L=1486mm, IP20, black plastic	1207118SW
VLBK-T16 803	Dummy cover, L=4458mm, IP20, white plastic	1207119
VLBK-T16 803 SI	Dummy cover, L=4458mm, IP20, silver plastic	1207119SI
VLBK-T16 803 SW	Dummy cover, L=4458mm, IP20, black plastic	1207119SW



#### VLSBK-T16 ...

Dummy element in extruded plastic. Extruded profile clips into the trunking. For cutting to length as required. Includes seals VLSBKD. To comply with protection rating IP 54.

Note: By sawing the VLBK-T16 803 to length and using additional seals VLSBKD, other variable lengths are possible.

Model	Description	Prod. code
VLSBK-T16 541	Dummy cover, L=1176mm, IP54, white plastic	1207189
VLSBK-T16 541 SI	Dummy cover, L=1176mm, IP54, silver plastic	1207189SI
VLSBK-T16 541 SW	Dummy cover, L=1176mm, IP54, black plastic	1207189SW
VLSBK-T16 801	Dummy cover, L=1476mm, IP54, white plastic	1207190
VLSBK-T16 801 SI	Dummy cover, L=1476mm, IP54, silver plastic	1207190SI
VLSBK-T16 801 SW	Dummy cover, L=1476mm, IP54, black plastic	1207190SW



VLBKK

VLSBKD

### Accessories

Model	Description	Prod. code
VLBKK-AP	Safety clamp for VLBK, natural 1 pc	0206551AP
VLG-KB	Safety clamp for VLB, white, 1 pc.	0206905
VLG-KB-AG	Safety clamp for VLB, silver, 1 pc.	0206905AG
VLSBKD	Seal for dummy cover VLBK for IP54, 1 pc	1207191
VLSBKD-AD	Dummy cover seal VLBK...-SI for IP54, 1 pc.	1207191AD
VLSBKD-SW	Dummy cover seal VLBK...-SW for IP54, 1 pc.	1207191SW

Dummy covers VLBF ...



**VLBF ...**

Dummy section made of sectional aluminium painted white. Fixture at the trunking by means of clips. Electrical adapter for automatic contacting of the PE conductor in the trunking. Includes seals. Protection rating IP 54.

Model	Description	Prod. code
VLBF 361	Dummy cover, L=1237 mm, IP54, white	1500080
VLBF 581	Dummy cover, L=1537 mm, IP54, white	1500081
VLBF-T16 541	Dummy cover, L=1186 mm, IP54, white	1500082
VLBF-T16 801	Dummy cover, L=1486 mm, IP54, white	1500083



**VLBF ... SI**

Dummy section made of sectional aluminium painted silver. Fixture at the trunking by means of clips. Electrical adapter for automatic contacting of the PE conductor in the trunking. Includes seals. Protection rating IP 54.

Model	Description	Prod. code
VLBF 361 SI	Dummy cover, L=1237 mm, IP54, silver	1500080SI
VLBF 581 SI	Dummy cover, L=1537 mm, IP54, silver	1500081SI
VLBF-T16 541 SI	Dummy cover, L=1186 mm, IP54, silver	1500082SI
VLBF-T16 801 SI	Dummy cover, L=1486 mm, IP54, silver	1500083SI

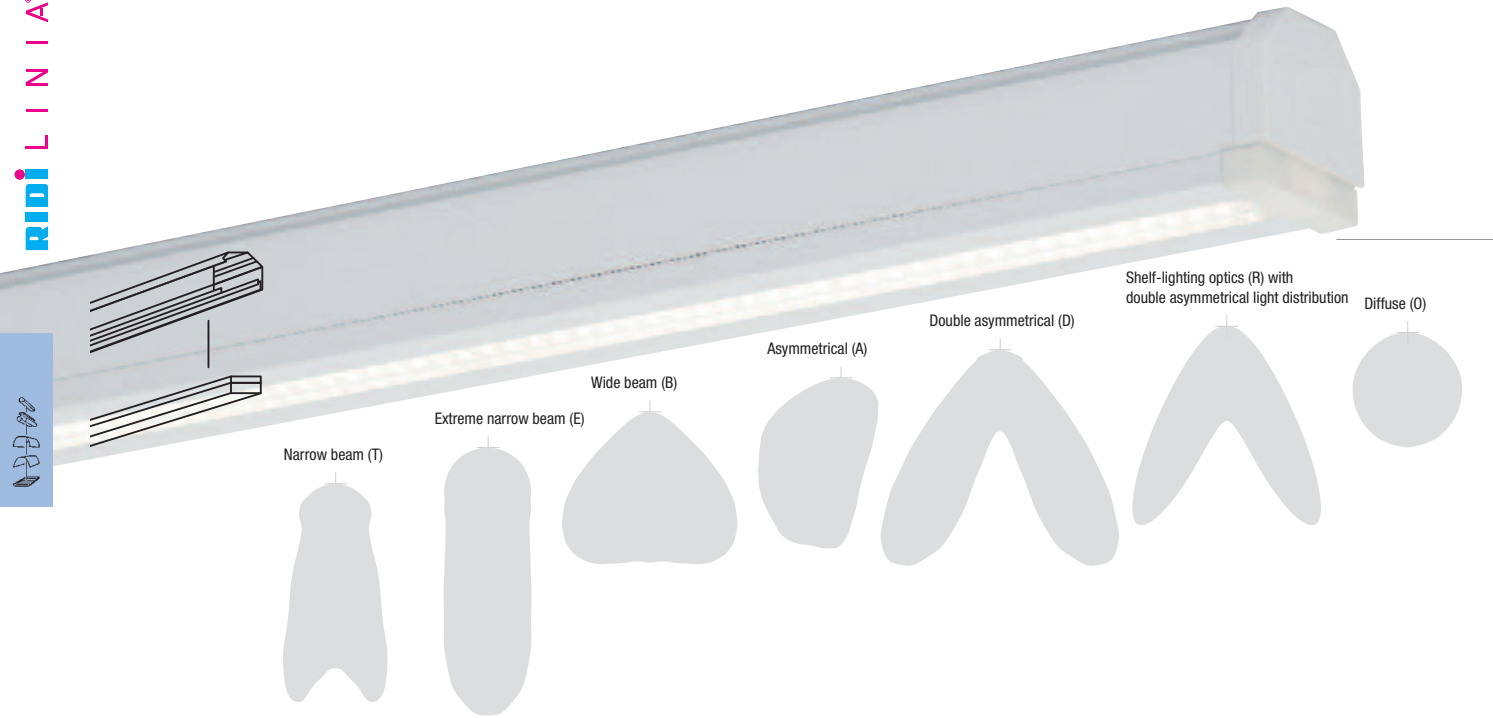


**VLBF ... SW**

Dummy section made of sectional aluminium painted black. Fixture at the trunking by means of clips. Electrical adapter for automatic contacting of the PE conductor in the trunking. Includes seals. Protection rating IP 54.

Model	Description	Prod. code
VLBF 361 SW	Dummy cover, L=1237, IP54, black	1500080SW
VLBF 581 SW	Dummy cover, L=1537, IP54, black	1500081SW
VLBF-T16 541 SW	Dummy cover, L=1186, IP54, black	1500082SW
VLBF-T16 801 SW	Dummy cover, L=1486, IP54, black	1500083SW







# RIDI LINIA-FLAT

## VLG-F and VLPG-F with flush integrated linear optics

### Lengths

Length (mm)	Comparable with gear tray for:
1186 mm	T16 28 W / 54 W
1237 mm	T26 36 W
1486 mm	T16 35 W / 49 W / 80 W
1537 mm	T26 58 W

The gear tray made of extruded aluminium accommodates the RIDI LED linear modules and optics in clear PMMA with longitudinal prism structure. The linear modules are held in the aluminium profile by interlocking catches which ensure optimum dissipation of heat over the entire length. No additional reflectors are required for optical control, making for a low-profile, slimline luminaire design. The flexible end cap with seal guarantees compliance with protection rating IP54.

The FLAT gear trays fulfil food law regulations (HACCP) and are suitable for use in the food industry.

The VLPG-F gear tray was specially designed for use in challenging industrial environments. In order to withstand inclement environmental conditions, the LEDs have a special protective coat, and the seals have been made from oil-resistant material.



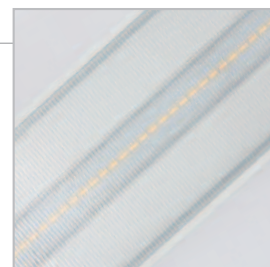
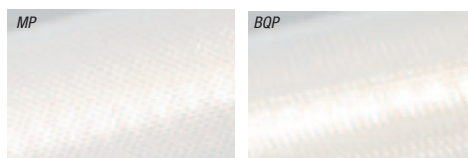
## VLG-FS with linear optics and/or panel to reduce longitudinal glare

### Lengths

Length (mm)	Comparable with gear tray for:
1186 mm	T16 28 W / 54 W
1486 mm	T16 35 W / 49 W / 80 W

The gear tray made of extruded aluminium accommodates the RIDI LED linear modules and prismatic optics in clear PMMA. This allows the VLG-FS to provide the glare suppression required for workstations. A clear panel can be additionally inserted underneath for the simple removal of dirt deposits. The linear modules are held in the aluminium profile by interlocking catches which ensure optimum dissipation of heat over the entire length.

End caps in thermoplastic guarantee protection rating to IP54.



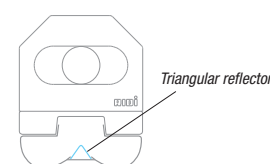
## VLG-F ... W with diffuser for diffuse light distribution with indirect component

### Lengths

Length (mm)	Comparable with gear tray for:
1186 mm	T16 28 W / 54 W
1486 mm	T16 35 W / 49 W / 80 W

The gear tray made of extruded aluminium accommodates the RIDI LED linear modules and the diffuser in satinised UV-stabilised PMMA. The linear modules are held in the aluminium profile by interlocking catches which ensure optimum dissipation of heat over the entire length. To ensure an extremely low-profile design, the diffuser finishes flush with the gear tray and trunking.

The diffuser is protected against insects by end caps in satinised PMMA. Protection rating IP20. As a non-standard design with central triangular reflector for a wider beam and indirect lighting component.



## VLG-F ...T... with narrow beam light distribution

**Design:** LED gear tray made of sectional extruded aluminium, powder coated white (...WS-...) or silver (...SI-...). RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium base profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. No thermal coupling between the LED modules and converters. Linear optics with narrow beam light distribution in clear, UV-stabilized PMMA, integrated flush into the surface of the gear tray. End caps made of thermoplastic for conformity with IP54 protection rating. The width of the gear tray is identical to the trunking. Spring steel clips for fixture of the gear tray in the trunking VLT. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20 and IP54. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Optical and colour coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: 2 Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: 2 Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

### Note on "Food Hygiene Act":

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.

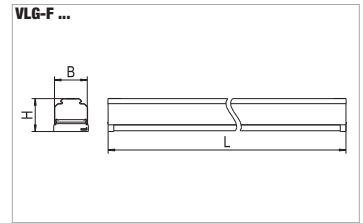
### Additional designs:

**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



### Non-standard versions:

- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Emergency light

Narrow beam (T)



acc. to DIN EN 60598/VDE 0711

### VLG-F ... -5 (T16)

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDWS-289T840	1xLED-M 18 W	2835	21	135	840	1186	67	64	1522021
VLG-F135-5NDWS-368T840	1xLED-M 22 W	3350	25	134	840	1486	67	64	1522026
VLG-F149-5NDWS-475T840	1xLED-M 29 W	4209	31	135	840	1486	67	64	1522046
VLG-F154-5NDWS-433T840	1xLED-M 33 W	4381	34	128	840	1186	67	64	1522041
VLG-F180-5NDWS-686T840	1xLED-M 43 W	6271	48	130	840	1486	67	64	1522051
VLG-F180-5NDWS-880T840	1xLED-M 48 W	7559	55	137	840	1486	67	64	1522421
VLG-F228-5NDWS-578T840	2xLED-M 18 W	5669	42	134	840	1186	67	64	1522031
VLG-F235-5NDWS-736T840	2xLED-M 22 W	6700	50	134	840	1486	67	64	1522036
VLG-F249-5NDWS-950T840	2xLED-M 29 W	8418	62	135	840	1486	67	64	1522061
VLG-F254-5NDWS-866T840	2xLED-M 33 W	8762	68	128	840	1186	67	64	1522056
VLG-F280-5NDWS-1135T840	2xLED-M 34 W	10480	78	134	840	1486	67	64	1522066
VLG-F280-5NDWS-1770T840	2xLED-M 48 W	15204	110	138	840	1486	67	64	1522424



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDSI-289T840	1xLED-M 18 W	2835	21	135	840	1186	67	64	1522021SI
VLG-F135-5NDSI-368T840	1xLED-M 22 W	3350	25	134	840	1486	67	64	1522026SI
VLG-F149-5NDSI-475T840	1xLED-M 29 W	4209	31	135	840	1486	67	64	1522046SI
VLG-F154-5NDSI-433T840	1xLED-M 33 W	4381	34	128	840	1186	67	64	1522041SI
VLG-F180-5NDSI-686T840	1xLED-M 43 W	6271	48	130	840	1486	67	64	1522051SI
VLG-F180-5NDSI-880T840	1xLED-M 48 W	7559	55	137	840	1486	67	64	1522421SI
VLG-F228-5NDSI-578T840	2xLED-M 18 W	5669	42	134	840	1186	67	64	1522031SI
VLG-F235-5NDSI-736T840	2xLED-M 22 W	6700	50	134	840	1486	67	64	1522036SI
VLG-F249-5NDSI-950T840	2xLED-M 29 W	8418	62	135	840	1486	67	64	1522061SI
VLG-F254-5NDSI-866T840	2xLED-M 33 W	8762	68	128	840	1186	67	64	1522056SI
VLG-F280-5NDSI-1135T840	2xLED-M 34 W	10480	78	134	840	1486	67	64	1522066SI



**VLG-F ... -7 (T16)**

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11.  
Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DAWS-289T840	1xLED-M 18 W	2835	21	135	840	1186	67	64	1532021
VLG-F135-7DAWS-368T840	1xLED-M 22 W	3350	25	134	840	1486	67	64	1532026
VLG-F149-7DAWS-475T840	1xLED-M 29 W	4209	31	135	840	1486	67	64	1532046
VLG-F154-7DAWS-433T840	1xLED-M 33 W	4381	34	128	840	1186	67	64	1532041
VLG-F180-7DAWS-686T840	1xLED-M 43 W	6271	48	130	840	1486	67	64	1532051
VLG-F180-7DAWS-880T840	1xLED-M 48 W	7559	55	137	840	1486	67	64	1532421
VLG-F228-7DAWS-578T840	2xLED-M 18 W	5669	42	134	840	1186	67	64	1532031
VLG-F235-7DAWS-736T840	2xLED-M 22 W	6700	50	134	840	1486	67	64	1532036
VLG-F249-7DAWS-950T840	2xLED-M 29 W	8418	62	135	840	1486	67	64	1532061
VLG-F254-7DAWS-866T840	2xLED-M 33 W	8762	68	128	840	1186	67	64	1532056
VLG-F280-7DAWS-1135T840	2xLED-M 34 W	10480	78	134	840	1486	67	64	1532066
VLG-F280-7DAWS-1770T840	2xLED-M 48 W	15204	110	138	840	1486	67	64	1532424



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DASI-289T840	1xLED-M 18 W	2835	21	135	840	1186	67	64	1532021SI
VLG-F135-7DASI-368T840	1xLED-M 22 W	3350	25	134	840	1486	67	64	1532026SI
VLG-F149-7DASI-475T840	1xLED-M 29 W	4209	31	135	840	1486	67	64	1532046SI
VLG-F154-7DASI-433T840	1xLED-M 33 W	4381	34	128	840	1186	67	64	1532041SI
VLG-F180-7DASI-686T840	1xLED-M 43 W	6271	48	130	840	1486	67	64	1532051SI
VLG-F228-7DASI-578T840	2xLED-M 18 W	5669	42	134	840	1186	67	64	1532031SI
VLG-F235-7DASI-736T840	2xLED-M 22 W	6700	50	134	840	1486	67	64	1532036SI
VLG-F249-7DASI-950T840	2xLED-M 29 W	8418	62	135	840	1486	67	64	1532061SI
VLG-F254-7DASI-866T840	2xLED-M 33 W	8762	68	128	840	1186	67	64	1532056SI
VLG-F280-7DASI-1135T840	2xLED-M 34 W	10480	78	134	840	1486	67	64	1532066SI



**VLG-F ...-5 (T26)**

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11.  
Lengths equivalent to T26.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. Prod. code
						L	B	H	
VLG-F136-5NDWS-345T840	1xLED-M 22 W	3350	25	134	840	1237	67	64	1522001
VLG-F158-5NDWS-521T840	1xLED-M 33 W	4725	35	135	840	1537	67	64	1522006
VLG-F236-5NDWS-690T840	2xLED-M 22 W	6700	50	134	840	1237	67	64	1522011
VLG-F258-5NDWS-1042T840	2xLED-M 33 W	9449	70	134	840	1537	67	64	1522016



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. Prod. code
						L	B	H	
VLG-F136-5NDSI-345T840	1xLED-M 22 W	3350	25	134	840	1237	67	64	1522001SI
VLG-F158-5NDSI-521T840	1xLED-M 33 W	4725	35	135	840	1537	67	64	1522006SI
VLG-F236-5NDSI-690T840	2xLED-M 22 W	6700	50	134	840	1237	67	64	1522011SI
VLG-F258-5NDSI-1042T840	2xLED-M 33 W	9449	70	134	840	1537	67	64	1522016SI



**VLG-F ...-7 (T26)**

LED gear tray with purple colour coding for mounting in VLT-5, VLT-7 or VLT-11.  
Lengths equivalent to T26.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F136-7DAWS-345T840	1xLED-M 22 W	3350	25	134	840	1237	67	64	1532001
VLG-F158-7DAWS-521T840	1xLED-M 33 W	4725	35	135	840	1537	67	64	1532006
VLG-F236-7DAWS-690T840	2xLED-M 22 W	6700	50	134	840	1237	67	64	1532011
VLG-F258-7DAWS-1042T840	2xLED-M 33 W	9449	70	134	840	1537	67	64	1532016



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F136-7DASI-345T840	1xLED-M 22 W	3350	25	134	840	1237	67	64	1532001SI
VLG-F158-7DASI-521T840	1xLED-M 33 W	4725	35	135	840	1537	67	64	1532006SI
VLG-F236-7DASI-690T840	2xLED-M 22 W	6700	50	134	840	1237	67	64	1532011SI
VLG-F258-7DASI-1042T840	2xLED-M 33 W	9449	70	134	840	1537	67	64	1532016SI

## VLG-F ...E... with extreme narrow beam light distribution

**Design:** LED gear tray made of sectional extruded aluminium, powder coated white (...WS-...) or silver (...SI-...). RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium base profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. No thermal coupling between the LED modules and converters. Linear optics with extremely narrow beam light distribution made of clear, UV-stabilised PMMA integrated flush in the gear tray. End caps made of thermoplastic for conformity with IP54 protection rating. The width of the gear tray is identical to the trunking. Spring steel clips for fixture of the gear tray in the trunking VLT. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20 and IP54. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: 2 Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: 2 Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

### Note on "Food Hygiene Act":

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.

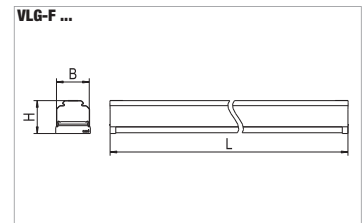
### Additional designs:

**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



### Non-standard versions:

- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Emergency light

Extreme narrow beam (E)



### VLG-F ... -5 (T16)

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDWS-289E840	1xLED-M 18 W	2848	21	135	840	1186	67	64	1522022
VLG-F135-5NDWS-368E840	1xLED-M 22 W	3366	25	134	840	1486	67	64	1522027
VLG-F149-5NDWS-475E840	1xLED-M 29 W	4229	31	136	840	1486	67	64	1522047
VLG-F154-5NDWS-433E840	1xLED-M 33 W	4401	34	129	840	1186	67	64	1522042
VLG-F180-5NDWS-686E840	1xLED-M 43 W	6300	48	131	840	1486	67	64	1522052
VLG-F180-5NDWS-880E840	1xLED-M 48 W	7594	55	138	840	1486	67	64	1522422
VLG-F228-5NDWS-578E840	2xLED-M 18 W	5696	42	135	840	1186	67	64	1522032
VLG-F235-5NDWS-736E840	2xLED-M 22 W	6731	50	134	840	1486	67	64	1522037
VLG-F249-5NDWS-950E840	2xLED-M 29 W	8457	62	136	840	1486	67	64	1522062
VLG-F254-5NDWS-866E840	2xLED-M 33 W	8803	68	129	840	1186	67	64	1522057
VLG-F280-5NDWS-1135E840	2xLED-M 34 W	10529	78	134	840	1486	67	64	1522067
VLG-F280-5NDWS-1770E840	2xLED-M 48 W	15275	110	138	840	1486	67	64	1522425



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDSI-289E840	1xLED-M 18 W	2848	21	135	840	1186	67	64	1522022SI
VLG-F135-5NDSI-368E840	1xLED-M 22 W	3366	25	134	840	1486	67	64	1522027SI
VLG-F149-5NDSI-475E840	1xLED-M 29 W	4229	31	136	840	1486	67	64	1522047SI
VLG-F154-5NDSI-433E840	1xLED-M 33 W	4401	34	129	840	1186	67	64	1522042SI
VLG-F180-5NDSI-686E840	1xLED-M 43 W	6300	48	131	840	1486	67	64	1522052SI
VLG-F228-5NDSI-578E840	2xLED-M 18 W	5696	42	135	840	1186	67	64	1522032SI
VLG-F235-5NDSI-736E840	2xLED-M 22 W	6731	50	134	840	1486	67	64	1522037SI
VLG-F249-5NDSI-950E840	2xLED-M 29 W	8457	62	136	840	1486	67	64	1522062SI
VLG-F254-5NDSI-866E840	2xLED-M 33 W	8803	68	129	840	1186	67	64	1522057SI
VLG-F280-5NDSI-1135E840	2xLED-M 34 W	10529	78	134	840	1486	67	64	1522067SI



**VLG-F ... -7 (T16)**

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11.  
Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DAWS-289E840	1xLED-M 18 W	2848	21	135	840	1186	67	64	1532022
VLG-F135-7DAWS-368E840	1xLED-M 22 W	3366	25	134	840	1486	67	64	1532027
VLG-F149-7DAWS-475E840	1xLED-M 29 W	4229	31	136	840	1486	67	64	1532047
VLG-F154-7DAWS-433E840	1xLED-M 33 W	4401	34	129	840	1186	67	64	1532042
VLG-F180-7DAWS-686E840	1xLED-M 43 W	6300	48	131	840	1486	67	64	1532052
VLG-F180-7DAWS-880E840	1xLED-M 48 W	7594	55	138	840	1486	67	64	1532422
VLG-F228-7DAWS-578E840	2xLED-M 18 W	5696	42	135	840	1186	67	64	1532032
VLG-F235-7DAWS-736E840	2xLED-M 22 W	6731	50	134	840	1486	67	64	1532037
VLG-F249-7DAWS-950E840	2xLED-M 29 W	8457	62	136	840	1486	67	64	1532062
VLG-F254-7DAWS-866E840	2xLED-M 33 W	8803	68	129	840	1186	67	64	1532057
VLG-F280-7DAWS-1135E840	2xLED-M 34 W	10529	78	134	840	1486	67	64	1532067
VLG-F280-7DAWS-1770E840	2xLED-M 48 W	15275	110	138	840	1486	67	64	1532425



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DASI-289E840	1xLED-M 18 W	2848	21	135	840	1186	67	64	1532022SI
VLG-F135-7DASI-368E840	1xLED-M 22 W	3366	25	134	840	1486	67	64	1532027SI
VLG-F149-7DASI-475E840	1xLED-M 29 W	4229	31	136	840	1486	67	64	1532047SI
VLG-F154-7DASI-433E840	1xLED-M 33 W	4401	34	129	840	1186	67	64	1532042SI
VLG-F180-7DASI-686E840	1xLED-M 43 W	6300	48	131	840	1486	67	64	1532052SI
VLG-F228-7DASI-578E840	2xLED-M 18 W	5696	42	135	840	1186	67	64	1532032SI
VLG-F235-7DASI-736E840	2xLED-M 22 W	6731	50	134	840	1486	67	64	1532037SI
VLG-F249-7DASI-950E840	2xLED-M 29 W	8457	62	136	840	1486	67	64	1532062SI
VLG-F254-7DASI-866E840	2xLED-M 33 W	8803	68	129	840	1186	67	64	1532057SI
VLG-F280-7DASI-1135E840	2xLED-M 34 W	10529	78	134	840	1486	67	64	1532067SI



**VLG-F ...-5 (T26)**

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11.  
Lengths equivalent to T26

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F136-5NDWS-345E840	1xLED-M 22 W	3366	25	134	840	1237	67	64	1522002
VLG-F158-5NDWS-521E840	1xLED-M 33 W	4747	35	135	840	1537	67	64	1522007
VLG-F236-5NDWS-690E840	2xLED-M 22 W	6731	50	134	840	1237	67	64	1522012
VLG-F258-5NDWS-1042E840	2xLED-M 33 W	9493	70	135	840	1537	67	64	1522017



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F136-5NDSI-345E840	1xLED-M 22 W	3366	25	134	840	1237	67	64	1522002SI
VLG-F158-5NDSI-521E840	1xLED-M 33 W	4747	35	135	840	1537	67	64	1522007SI
VLG-F236-5NDSI-690E840	2xLED-M 22 W	6731	50	134	840	1237	67	64	1522012SI
VLG-F258-5NDSI-1042E840	2xLED-M 33 W	9493	70	135	840	1537	67	64	1522017SI



**VLG-F ...-7 (T26)**

LED gear tray with purple colour coding for mounting in VLT-5, VLT-7 or VLT-11.  
Lengths equivalent to T26

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F136-7DAWS-345E840	1xLED-M 22 W	3366	25	134	840	1237	67	64	1532002
VLG-F158-7DAWS-521E840	1xLED-M 33 W	4747	35	135	840	1537	67	64	1532007
VLG-F236-7DAWS-690E840	2xLED-M 22 W	6731	50	134	840	1237	67	64	1532012
VLG-F258-7DAWS-1042E840	2xLED-M 33 W	9493	70	135	840	1537	67	64	1532017



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F136-7DASI-345E840	1xLED-M 22 W	3366	25	134	840	1237	67	64	1532002SI
VLG-F158-7DASI-521E840	1xLED-M 33 W	4747	35	135	840	1537	67	64	1532007SI
VLG-F236-7DASI-690E840	2xLED-M 22 W	6731	50	134	840	1237	67	64	1532012SI
VLG-F258-7DASI-1042E840	2xLED-M 33 W	9493	70	135	840	1537	67	64	1532017SI

## VLG-F ...B... with wide beam light distribution

**Design:** LED gear tray made of sectional extruded aluminium, powder coated white (...WS-...), silver (...SI-...) or black (...SW-...). RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium base profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. No thermal coupling between the LED modules and converters. Linear optics with wide beam light distribution made of clear, UV-stabilised PMMA integrated flush in the gear tray. End caps made of thermoplastic for conformity with IP54 protection rating. The width of the gear tray is identical to the trunking. Spring steel clips for fixture of the gear tray in the trunking VLT. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20 and IP54. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: 2 Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: 2 Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

### Note on "Food Hygiene Act":

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.

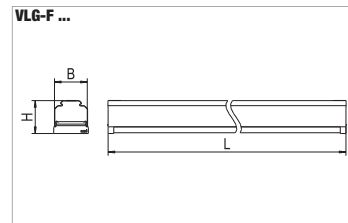
### Additional designs:

**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



### Non-standard versions:

- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Emergency light

Wide beam (B)



acc. to DIN EN 60598/VDE 0711

### VLG-F ... -5 (T16)

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDWS-289B840	1xLED-M 18 W	3056	21	145	840	1186	67	64	1522020
VLG-F135-5NDWS-368B840	1xLED-M 22 W	3611	25	144	840	1486	67	64	1522025
VLG-F149-5NDWS-475B840	1xLED-M 29 W	4537	31	146	840	1486	67	64	1522045
VLG-F154-5NDWS-433B840	1xLED-M 33 W	4723	34	138	840	1186	67	64	1522040
VLG-F180-5NDWS-686B840	1xLED-M 43 W	6760	48	140	840	1486	67	64	1522050
VLG-F180-5NDWS-880B840	1xLED-M 48 W	8149	55	148	840	1486	67	64	1522420
VLG-F228-5NDWS-578B840	2xLED-M 18 W	6112	42	145	840	1186	67	64	1522030
VLG-F235-5NDWS-736B840	2xLED-M 22 W	7223	50	144	840	1486	67	64	1522035
VLG-F249-5NDWS-950B840	2xLED-M 29 W	9075	62	146	840	1486	67	64	1522060
VLG-F254-5NDWS-866B840	2xLED-M 33 W	9445	68	138	840	1186	67	64	1522055
VLG-F280-5NDWS-1135B840	2xLED-M 34 W	11297	78	144	840	1486	67	64	1522065
VLG-F280-5NDWS-1770B840	2xLED-M 48 W	16390	110	149	840	1486	67	64	1522423



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDSI-289B840	1xLED-M 18 W	3056	21	145	840	1186	67	64	1522020SI
VLG-F135-5NDSI-368B840	1xLED-M 22 W	3611	25	144	840	1486	67	64	1522025SI
VLG-F149-5NDSI-475B840	1xLED-M 29 W	4537	31	146	840	1486	67	64	1522045SI
VLG-F154-5NDSI-433B840	1xLED-M 33 W	4723	34	138	840	1186	67	64	1522040SI
VLG-F180-5NDSI-686B840	1xLED-M 43 W	6760	48	140	840	1486	67	64	1522050SI
VLG-F228-5NDSI-578B840	2xLED-M 18 W	6112	42	145	840	1186	67	64	1522030SI
VLG-F235-5NDSI-736B840	2xLED-M 22 W	7223	50	144	840	1486	67	64	1522035SI
VLG-F249-5NDSI-950B840	2xLED-M 29 W	9075	62	146	840	1486	67	64	1522060SI
VLG-F254-5NDSI-866B840	2xLED-M 33 W	9445	68	138	840	1186	67	64	1522055SI
VLG-F280-5NDSI-1135B840	2xLED-M 34 W	11297	78	144	840	1486	67	64	1522065SI



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDSW-289B840	1xLED-M 18 W	2897	21	137	840	1186	67	64	1522020SW
VLG-F135-5NDSW-368B840	1xLED-M 22 W	3424	25	136	840	1486	67	64	1522025SW
VLG-F149-5NDSW-475B840	1xLED-M 29 W	4302	31	138	840	1486	67	64	1522045SW
VLG-F154-5NDSW-433B840	1xLED-M 33 W	4478	34	131	840	1186	67	64	1522040SW
VLG-F180-5NDSW-686B840	1xLED-M 43 W	6409	48	133	840	1486	67	64	1522050SW
VLG-F180-5NDSW-880B840	1xLED-M 48 W	7726	55	140	840	1486	67	64	1522420SW
VLG-F228-5NDSW-578B840	2xLED-M 18 W	5795	42	137	840	1186	67	64	1522030SW
VLG-F235-5NDSW-736B840	2xLED-M 22 W	6848	50	136	840	1486	67	64	1522035SW
VLG-F249-5NDSW-950B840	2xLED-M 29 W	8428	62	135	840	1486	67	64	1522060SW
VLG-F254-5NDSW-866B840	2xLED-M 33 W	8956	68	131	840	1186	67	64	1522055SW

**VLG-F ... -7 (T16)**

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. Lengths equivalent to T16.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DAWS-289B840	1xLED-M 18 W	3056	21	145	840	1186	67	64	1532020
VLG-F135-7DAWS-368B840	1xLED-M 22 W	3611	25	144	840	1486	67	64	1532025
VLG-F149-7DAWS-475B840	1xLED-M 29 W	4537	31	146	840	1486	67	64	1532045
VLG-F154-7DAWS-433B840	1xLED-M 33 W	4723	34	138	840	1186	67	64	1532040
VLG-F180-7DAWS-686B840	1xLED-M 43 W	6760	48	140	840	1486	67	64	1532050
VLG-F180-7DAWS-880B840	1xLED-M 48 W	8149	55	148	840	1486	67	64	1532420
VLG-F228-7DAWS-578B840	2xLED-M 18 W	6112	42	145	840	1186	67	64	1532030
VLG-F235-7DAWS-736B840	2xLED-M 22 W	7223	50	144	840	1486	67	64	1532035
VLG-F249-7DAWS-950B840	2xLED-M 29 W	9075	62	146	840	1486	67	64	1532060
VLG-F254-7DAWS-866B840	2xLED-M 33 W	9445	68	138	840	1186	67	64	1532055
VLG-F280-7DAWS-1135B840	2xLED-M 34 W	11297	78	144	840	1486	67	64	1532065
VLG-F280-7DAWS-1770B840	2xLED-M 48 W	16390	110	149	840	1486	67	64	1532423



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DASI-289B840	1xLED-M 18 W	3056	21	145	840	1186	67	64	1532020SI
VLG-F135-7DASI-368B840	1xLED-M 22 W	3611	25	144	840	1486	67	64	1532025SI
VLG-F149-7DASI-475B840	1xLED-M 29 W	4537	31	146	840	1486	67	64	1532045SI
VLG-F154-7DASI-433B840	1xLED-M 33 W	4723	34	138	840	1186	67	64	1532040SI
VLG-F180-7DASI-686B840	1xLED-M 43 W	6760	48	140	840	1486	67	64	1532050SI
VLG-F228-7DASI-578B840	2xLED-M 18 W	6112	42	145	840	1186	67	64	1532030SI
VLG-F235-7DASI-736B840	2xLED-M 22 W	7223	50	144	840	1486	67	64	1532035SI
VLG-F249-7DASI-950B840	2xLED-M 29 W	9075	62	146	840	1486	67	64	1532060SI
VLG-F254-7DASI-866B840	2xLED-M 33 W	9445	68	138	840	1186	67	64	1532055SI
VLG-F280-7DASI-1135B840	2xLED-M 34 W	11297	78	144	840	1486	67	64	1532065SI



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DASW-289B840	1xLED-M 18 W	2897	21	137	840	1186	67	64	1532020SW
VLG-F135-7DASW-368B840	1xLED-M 22 W	3424	25	136	840	1486	67	64	1532025SW
VLG-F149-7DASW-475B840	1xLED-M 29 W	4302	31	138	840	1486	67	64	1532045SW
VLG-F154-7DASW-433B840	1xLED-M 33 W	4478	34	131	840	1186	67	64	1532040SW
VLG-F180-7DASW-686B840	1xLED-M 43 W	6409	48	133	840	1486	67	64	1532050SW
VLG-F180-7DASW-880B840	1xLED-M 48 W	7726	55	140	840	1486	67	64	1532420SW
VLG-F228-7DASW-578B840	2xLED-M 18 W	5795	42	137	840	1186	67	64	1532030SW
VLG-F235-7DASW-736B840	2xLED-M 22 W	6848	50	136	840	1486	67	64	1532035SW
VLG-F249-7DASW-950B840	2xLED-M 29 W	8428	62	135	840	1486	67	64	1532060SW
VLG-F254-7DASW-866B840	2xLED-M 33 W	8956	68	131	840	1186	67	64	1532055SW



## VLG-F ...-5 (T26)

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T26.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F136-5NDWS-345B840	1xLED-M 22 W	3611	25	144	840	1237	67	64	1522000
VLG-F158-5NDWS-521B840	1xLED-M 33 W	5093	35	145	840	1537	67	64	1522005
VLG-F236-5NDWS-690B840	2xLED-M 22 W	7223	50	144	840	1237	67	64	1522010
VLG-F258-5NDWS-1042B840	2xLED-M 33 W	10186	70	145	840	1537	67	64	1522015

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F136-5NDSI-345B840	1xLED-M 22 W	3611	25	144	840	1237	67	64	1522000SI
VLG-F158-5NDSI-521B840	1xLED-M 33 W	5093	35	145	840	1537	67	64	1522005SI
VLG-F236-5NDSI-690B840	2xLED-M 22 W	7223	50	144	840	1237	67	64	1522010SI
VLG-F258-5NDSI-1042B840	2xLED-M 33 W	10186	70	145	840	1537	67	64	1522015SI

## VLG-F ...-7 (T26)

LED gear tray with purple colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T26

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F136-7DAWS-345B840	1xLED-M 22 W	3611	25	144	840	1237	67	64	1532000
VLG-F158-7DAWS-521B840	1xLED-M 33 W	5093	35	145	840	1537	67	64	1532005
VLG-F236-7DAWS-690B840	2xLED-M 22 W	7223	50	144	840	1237	67	64	1532010
VLG-F258-7DAWS-1042B840	2xLED-M 33 W	10186	70	145	840	1537	67	64	1532015

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F136-7DASI-345B840	1xLED-M 22 W	3611	25	144	840	1237	67	64	1532000SI
VLG-F158-7DASI-521B840	1xLED-M 33 W	5093	35	145	840	1537	67	64	1532005SI
VLG-F236-7DASI-690B840	2xLED-M 22 W	7223	50	144	840	1237	67	64	1532010SI
VLG-F258-7DASI-1042B840	2xLED-M 33 W	10186	70	145	840	1537	67	64	1532015SI





## VLG-F ...A... with asymmetrical light distribution

**Design:** LED gear tray made of sectional extruded aluminium, powder coated white (...WS-...), silver (...SI-...) or black (...SW-...). RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium base profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. No thermal coupling between the LED modules and converters. Linear optics with asymmetrical light distribution made of clear, UV-stabilised PMMA integrated flush in the gear tray. For simple, fault-free mounting, the colour code of the trunking profile indicates the direction of the emerging light. End caps made of thermoplastic for conformity with IP54 protection rating. The width of the gear tray is identical to the trunking. Spring steel clips for fixture of the gear tray in the trunking VLT. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20 and IP54. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

### Note on "Food Hygiene Act":

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.

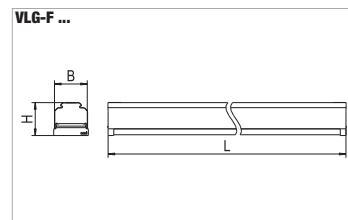
### Additional designs:

**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



### Non-standard versions:

- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Emergency light

Asymmetrical (A)



acc. to DIN EN 60598/VDE 0711

### VLG-F ... -5 (T16)

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDWS-289A840	1xLED-M 18 W	2848	21	135	840	1186	67	64	1522023
VLG-F135-5NDWS-368A840	1xLED-M 22 W	3366	25	134	840	1486	67	64	1522028
VLG-F149-5NDWS-475A840	1xLED-M 29 W	4229	31	136	840	1486	67	64	1522048
VLG-F154-5NDWS-433A840	1xLED-M 33 W	4401	34	129	840	1186	67	64	1522043
VLG-F180-5NDWS-686A840	1xLED-M 43 W	6300	48	131	840	1486	67	64	1522053
VLG-F228-5NDWS-578A840	2xLED-M 18 W	5696	42	135	840	1186	67	64	1522033
VLG-F235-5NDWS-736A840	2xLED-M 22 W	6731	50	134	840	1486	67	64	1522038
VLG-F249-5NDWS-950A840	2xLED-M 29 W	8457	62	136	840	1486	67	64	1522063
VLG-F254-5NDWS-866A840	2xLED-M 33 W	8803	68	129	840	1186	67	64	1522058
VLG-F280-5NDWS-1135A840	2xLED-M 34 W	10529	78	134	840	1486	67	64	1522068



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDSI-289A840	1xLED-M 18 W	2848	21	135	840	1186	67	64	1522023SI
VLG-F135-5NDSI-368A840	1xLED-M 22 W	3366	25	134	840	1486	67	64	1522028SI
VLG-F149-5NDSI-475A840	1xLED-M 29 W	4229	31	136	840	1486	67	64	1522048SI
VLG-F154-5NDSI-433A840	1xLED-M 33 W	4401	34	129	840	1186	67	64	1522043SI
VLG-F180-5NDSI-686A840	1xLED-M 43 W	6300	48	131	840	1486	67	64	1522053SI
VLG-F228-5NDSI-578A840	2xLED-M 18 W	5696	42	135	840	1186	67	64	1522033SI
VLG-F235-5NDSI-736A840	2xLED-M 22 W	6731	50	134	840	1486	67	64	1522038SI
VLG-F249-5NDSI-950A840	2xLED-M 29 W	8457	62	136	840	1486	67	64	1522063SI
VLG-F254-5NDSI-866A840	2xLED-M 33 W	8803	68	129	840	1186	67	64	1522058SI
VLG-F280-5NDSI-1135A840	2xLED-M 34 W	10529	78	134	840	1486	67	64	1522068SI

# Gear tray VLG-F ...A...



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDSW-289A840	1xLED-M 18 W	2492	21	118	840	1186	67	64	1522023SW
VLG-F135-5NDSW-368A840	1xLED-M 22 W	2945	25	117	840	1486	67	64	1522028SW
VLG-F149-5NDSW-475A840	1xLED-M 29 W	3700	31	119	840	1486	67	64	1522048SW
VLG-F154-5NDSW-433A840	1xLED-M 33 W	3851	34	113	840	1186	67	64	1522043SW
VLG-F180-5NDSW-686A840	1xLED-M 43 W	5512	48	114	840	1486	67	64	1522053SW
VLG-F228-5NDSW-578A840	2xLED-M 18 W	4983	42	118	840	1186	67	64	1522033SW
VLG-F235-5NDSW-736A840	2xLED-M 22 W	5889	50	117	840	1486	67	64	1522038SW
VLG-F249-5NDSW-950A840	2xLED-M 29 W	7321	62	118	840	1486	67	64	1522063SW
VLG-F254-5NDSW-866A840	2xLED-M 33 W	7701	68	113	840	1186	67	64	1522058SW

## VLG-F ... -7 (T16)

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. Lengths equivalent to T16.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DAWS-289A840	1xLED-M 18 W	2848	21	135	840	1186	67	64	1532023
VLG-F135-7DAWS-368A840	1xLED-M 22 W	3366	25	134	840	1486	67	64	1532028
VLG-F149-7DAWS-475A840	1xLED-M 29 W	4229	31	136	840	1486	67	64	1532048
VLG-F154-7DAWS-433A840	1xLED-M 33 W	4401	34	129	840	1186	67	64	1532043
VLG-F180-7DAWS-686A840	1xLED-M 43 W	6300	48	131	840	1486	67	64	1532053
VLG-F228-7DAWS-578A840	2xLED-M 18 W	5696	42	135	840	1186	67	64	1532033
VLG-F235-7DAWS-736A840	2xLED-M 22 W	6731	50	134	840	1486	67	64	1532038
VLG-F249-7DAWS-950A840	2xLED-M 29 W	8457	62	136	840	1486	67	64	1532063
VLG-F254-7DAWS-866A840	2xLED-M 33 W	8803	68	129	840	1186	67	64	1532058
VLG-F280-7DAWS-1135A840	2xLED-M 34 W	10529	78	134	840	1486	67	64	1532068



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DASI-289A840	1xLED-M 18 W	2848	21	135	840	1186	67	64	1532023SI
VLG-F135-7DASI-368A840	1xLED-M 22 W	3366	25	134	840	1486	67	64	1532028SI
VLG-F149-7DASI-475A840	1xLED-M 29 W	4229	31	136	840	1486	67	64	1532048SI
VLG-F154-7DASI-433A840	1xLED-M 33 W	4401	34	129	840	1186	67	64	1532043SI
VLG-F180-7DASI-686A840	1xLED-M 43 W	6300	48	131	840	1486	67	64	1532053SI
VLG-F228-7DASI-578A840	2xLED-M 18 W	5696	42	135	840	1186	67	64	1532033SI
VLG-F235-7DASI-736A840	2xLED-M 22 W	6731	50	134	840	1486	67	64	1532038SI
VLG-F249-7DASI-950A840	2xLED-M 29 W	8457	62	136	840	1486	67	64	1532063SI
VLG-F254-7DASI-866A840	2xLED-M 33 W	8803	68	129	840	1186	67	64	1532058SI
VLG-F280-7DASI-1135A840	2xLED-M 34 W	10529	78	134	840	1486	67	64	1532068SI



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DASW-289A840	1xLED-M 18 W	2492	21	118	840	1186	67	64	1532023SW
VLG-F135-7DASW-368A840	1xLED-M 22 W	2945	25	117	840	1486	67	64	1532028SW
VLG-F149-7DASW-475A840	1xLED-M 29 W	3700	31	119	840	1486	67	64	1532048SW
VLG-F154-7DASW-433A840	1xLED-M 33 W	3851	34	113	840	1186	67	64	1532043SW
VLG-F180-7DASW-686A840	1xLED-M 43 W	5512	48	114	840	1486	67	64	1532053SW
VLG-F228-7DASW-578A840	2xLED-M 18 W	4983	42	118	840	1186	67	64	1532033SW
VLG-F235-7DASW-736A840	2xLED-M 22 W	5889	50	117	840	1486	67	64	1532038SW
VLG-F249-7DASW-950A840	2xLED-M 29 W	7321	62	118	840	1486	67	64	1532063SW
VLG-F254-7DASW-866A840	2xLED-M 33 W	7701	68	113	840	1186	67	64	1532058SW

## VLG-F ...-5 (T26)

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T26



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F136-5NDWS-345A840	1xLED-M 22 W	3366	25	134	840	1237	67	64	1522003
VLG-F158-5NDWS-521A840	1xLED-M 33 W	4747	35	135	840	1537	67	64	1522008
VLG-F236-5NDWS-690A840	2xLED-M 22 W	6731	50	134	840	1237	67	64	1522013
VLG-F258-5NDWS-1042A840	2xLED-M 33 W	9493	70	135	840	1537	67	64	1522018



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F136-5NDSI-345A840	1xLED-M 22 W	3366	25	134	840	1237	67	64	1522003SI
VLG-F158-5NDSI-521A840	1xLED-M 33 W	4747	35	135	840	1537	67	64	1522008SI
VLG-F236-5NDSI-690A840	2xLED-M 22 W	6731	50	134	840	1237	67	64	1522013SI
VLG-F258-5NDSI-1042A840	2xLED-M 33 W	9493	70	135	840	1537	67	64	1522018SI



**VLG-F ...-7 (T26)**

LED gear tray with purple colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T26.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F136-7DAWS-345A840	1xLED-M 22 W	3366	25	134	840	1237	67	64	1532003
VLG-F158-7DAWS-521A840	1xLED-M 33 W	4747	35	135	840	1537	67	64	1532008
VLG-F236-7DAWS-690A840	2xLED-M 22 W	6731	50	134	840	1237	67	64	1532013
VLG-F258-7DAWS-1042A840	2xLED-M 33 W	9493	70	135	840	1537	67	64	1532018



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F136-7DASI-345A840	1xLED-M 22 W	3366	25	134	840	1237	67	64	1532003SI
VLG-F158-7DASI-521A840	1xLED-M 33 W	4747	35	135	840	1537	67	64	1532008SI
VLG-F236-7DASI-690A840	2xLED-M 22 W	6731	50	134	840	1237	67	64	1532013SI
VLG-F258-7DASI-1042A840	2xLED-M 33 W	9493	70	135	840	1537	67	64	1532018SI

Photo: Boris Goltz



## VLG-F ...D... with double asymmetrical light distribution

**Design:** LED gear tray made of sectional extruded aluminium, powder coated white (...WS-...), silver (...SI-...) or black (...SW-...). LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium base profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. No thermal coupling between the LED modules and converters. Linear optics with double asymmetrical light distribution made of clear, UV-stabilised PMMA integrated flush in the gear tray. End caps made of thermoplastic for conformity with IP54 protection rating. The width of the gear tray is identical to the trunking. Spring steel clips for fixture of the gear tray in the trunking VLT. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20 and IP54. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

### Note on "Food Hygiene Act":

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.

### Additional designs:

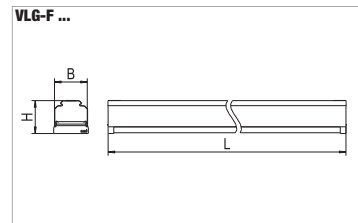
**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit).

100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



### Non-standard versions:

- Light colour 830 (3000 Kelvin)
- Alternative double asymmetrical optics
- Light colour 865 (6500 Kelvin)
- Emergency light

Double asymmetrical (D)



acc. to DIN EN 60598/VDE 0711

### VLG-F ... -5 (T16)

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDWS-289D840	1xLED-M 18 W	2973	21	141	840	1186	67	64	1522024
VLG-F135-5NDWS-368D840	1xLED-M 22 W	3514	25	140	840	1486	67	64	1522029
VLG-F149-5NDWS-475D840	1xLED-M 29 W	4415	31	142	840	1486	67	64	1522049
VLG-F154-5NDWS-433D840	1xLED-M 33 W	4595	34	135	840	1186	67	64	1522044
VLG-F180-5NDWS-686D840	1xLED-M 43 W	6577	48	137	840	1486	67	64	1522054
VLG-F228-5NDWS-578D840	2xLED-M 18 W	5947	42	141	840	1186	67	64	1522034
VLG-F235-5NDWS-736D840	2xLED-M 22 W	7028	50	140	840	1486	67	64	1522039
VLG-F249-5NDWS-950D840	2xLED-M 29 W	8830	62	142	840	1486	67	64	1522064
VLG-F254-5NDWS-866D840	2xLED-M 33 W	9190	68	135	840	1186	67	64	1522059
VLG-F280-5NDWS-1135D840	2xLED-M 34 W	10992	78	140	840	1486	67	64	1522069



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDSI-289D840	1xLED-M 18 W	2973	21	141	840	1186	67	64	1522024SI
VLG-F135-5NDSI-368D840	1xLED-M 22 W	3514	25	140	840	1486	67	64	1522029SI
VLG-F149-5NDSI-475D840	1xLED-M 29 W	4415	31	142	840	1486	67	64	1522049SI
VLG-F154-5NDSI-433D840	1xLED-M 33 W	4595	34	135	840	1186	67	64	1522044SI
VLG-F180-5NDSI-686D840	1xLED-M 43 W	6577	48	137	840	1486	67	64	1522054SI
VLG-F228-5NDSI-578D840	2xLED-M 18 W	5947	42	141	840	1186	67	64	1522034SI
VLG-F235-5NDSI-736D840	2xLED-M 22 W	7028	50	140	840	1486	67	64	1522039SI
VLG-F249-5NDSI-950D840	2xLED-M 29 W	8830	62	142	840	1486	67	64	1522064SI
VLG-F254-5NDSI-866D840	2xLED-M 33 W	9190	68	135	840	1186	67	64	1522059SI
VLG-F280-5NDSI-1135D840	2xLED-M 34 W	10992	78	140	840	1486	67	64	1522069SI



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDSW-289D840	1xLED-M 18 W	2752	21	131	840	1186	67	64	1522024SW
VLG-F135-5NDSW-368D840	1xLED-M 22 W	3253	25	130	840	1486	67	64	1522029SW
VLG-F149-5NDSW-475D840	1xLED-M 29 W	4087	31	131	840	1486	67	64	1522049SW
VLG-F154-5NDSW-433D840	1xLED-M 33 W	4253	34	125	840	1186	67	64	1522044SW
VLG-F180-5NDSW-686D840	1xLED-M 43 W	6088	48	126	840	1486	67	64	1522054SW
VLG-F228-5NDSW-578D840	2xLED-M 18 W	5504	42	131	840	1186	67	64	1522034SW
VLG-F235-5NDSW-736D840	2xLED-M 22 W	6505	50	130	840	1486	67	64	1522039SW
VLG-F249-5NDSW-950D840	2xLED-M 29 W	8095	62	130	840	1486	67	64	1522064SW
VLG-F254-5NDSW-866D840	2xLED-M 33 W	8507	68	125	840	1186	67	64	1522059SW

**VLG-F ... -7 (T16)**

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. Lengths equivalent to T16.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DAWS-289D840	1xLED-M 18 W	2973	21	141	840	1186	67	64	1532024
VLG-F135-7DAWS-368D840	1xLED-M 22 W	3514	25	140	840	1486	67	64	1532029
VLG-F149-7DAWS-475D840	1xLED-M 29 W	4415	31	142	840	1486	67	64	1532049
VLG-F154-7DAWS-433D840	1xLED-M 33 W	4595	34	135	840	1186	67	64	1532044
VLG-F180-7DAWS-686D840	1xLED-M 43 W	6577	48	137	840	1486	67	64	1532054
VLG-F228-7DAWS-578D840	2xLED-M 18 W	5947	42	141	840	1186	67	64	1532034
VLG-F235-7DAWS-736D840	2xLED-M 22 W	7028	50	140	840	1486	67	64	1532039
VLG-F249-7DAWS-950D840	2xLED-M 29 W	8830	62	142	840	1486	67	64	1532064
VLG-F254-7DAWS-866D840	2xLED-M 33 W	9190	68	135	840	1186	67	64	1532059
VLG-F280-7DAWS-1135D840	2xLED-M 34 W	10992	78	140	840	1486	67	64	1532069



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DASI-289D840	1xLED-M 18 W	2973	21	141	840	1186	67	64	1532024SI
VLG-F135-7DASI-368D840	1xLED-M 22 W	3514	25	140	840	1486	67	64	1532029SI
VLG-F149-7DASI-475D840	1xLED-M 29 W	4415	31	142	840	1486	67	64	1532049SI
VLG-F154-7DASI-433D840	1xLED-M 33 W	4595	34	135	840	1186	67	64	1532044SI
VLG-F180-7DASI-686D840	1xLED-M 43 W	6577	48	137	840	1486	67	64	1532054SI
VLG-F228-7DASI-578D840	2xLED-M 18 W	5947	42	141	840	1186	67	64	1532034SI
VLG-F235-7DASI-736D840	2xLED-M 22 W	7028	50	140	840	1486	67	64	1532039SI
VLG-F249-7DASI-950D840	2xLED-M 29 W	8830	62	142	840	1486	67	64	1532064SI
VLG-F254-7DASI-866D840	2xLED-M 33 W	9190	68	135	840	1186	67	64	1532059SI
VLG-F280-7DASI-1135D840	2xLED-M 34 W	10992	78	140	840	1486	67	64	1532069SI



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DASW-289D840	1xLED-M 18 W	2752	21	131	840	1186	67	64	1532024SW
VLG-F135-7DASW-368D840	1xLED-M 22 W	3253	25	130	840	1486	67	64	1532029SW
VLG-F149-7DASW-475D840	1xLED-M 29 W	4087	31	131	840	1486	67	64	1532049SW
VLG-F154-7DASW-433D840	1xLED-M 33 W	4253	34	125	840	1186	67	64	1532044SW
VLG-F180-7DASW-686D840	1xLED-M 43 W	6088	48	126	840	1486	67	64	1532054SW
VLG-F228-7DASW-578D840	2xLED-M 18 W	5504	42	131	840	1186	67	64	1532034SW
VLG-F235-7DASW-736D840	2xLED-M 22 W	6505	50	130	840	1486	67	64	1532039SW
VLG-F249-7DASW-950D840	2xLED-M 29 W	8095	62	130	840	1486	67	64	1532064SW
VLG-F254-7DASW-866D840	2xLED-M 33 W	8507	68	125	840	1186	67	64	1532059SW

**VLG-F ...-5 (T26)**

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T26



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F136-5NDWS-345D840	1xLED-M 22 W	3514	25	140	840	1237	67	64	1522004
VLG-F158-5NDWS-521D840	1xLED-M 33 W	4955	35	141	840	1537	67	64	1522009
VLG-F236-5NDWS-690D840	2xLED-M 22 W	7028	50	140	840	1237	67	64	1522014
VLG-F258-5NDWS-1042D840	2xLED-M 33 W	9911	70	141	840	1537	67	64	1522019



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F136-5NDSI-345D840	1xLED-M 22 W	3514	25	140	840	1237	67	64	1522004SI
VLG-F158-5NDSI-521D840	1xLED-M 33 W	4955	35	141	840	1537	67	64	1522009SI
VLG-F236-5NDSI-690D840	2xLED-M 22 W	7028	50	140	840	1237	67	64	1522014SI
VLG-F258-5NDSI-1042D840	2xLED-M 33 W	9911	70	141	840	1537	67	64	1522019SI

# Gear tray VLG-F ...D...



## VLG-F ...-7 (T26)

LED gear tray with purple colour coding for mounting in VLT-5, VLT-7 or VLT-11.  
Lengths equivalent to T26

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F136-7DAWS-345D840	1xLED-M 22 W	3514	25	140	840	1237	67	64	1532004
VLG-F158-7DAWS-521D840	1xLED-M 33 W	4955	35	141	840	1537	67	64	1532009
VLG-F236-7DAWS-690D840	2xLED-M 22 W	7028	50	140	840	1237	67	64	1532014
VLG-F258-7DAWS-1042D840	2xLED-M 33 W	9911	70	141	840	1537	67	64	1532019

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F136-7DASI-345D840	1xLED-M 22 W	3514	25	140	840	1237	67	64	1532004SI
VLG-F158-7DASI-521D840	1xLED-M 33 W	4955	35	141	840	1537	67	64	1532009SI
VLG-F236-7DASI-690D840	2xLED-M 22 W	7028	50	140	840	1237	67	64	1532014SI
VLG-F258-7DASI-1042D840	2xLED-M 33 W	9911	70	141	840	1537	67	64	1532019SI



## VLG-F ...R... with double asymmetrical light distribution

**Design:** LED gear tray made of sectional extruded aluminium, powder coated white (...WS-...) or silver (...SI-...). RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium base profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. No thermal coupling between the LED modules and converters. Shelf-lighting optics with double asymmetric light distribution made of clear, UV-resistant PMMA, integrated into the gear tray flush-mounted. End caps made of thermoplastic for conformity with IP54 protection rating. The width of the gear tray is identical to the trunking. Spring steel clips for fixture of the gear tray in the trunking VLT. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20 and IP54. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Optical and colour coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

### Note on "Food Hygiene Act":

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.

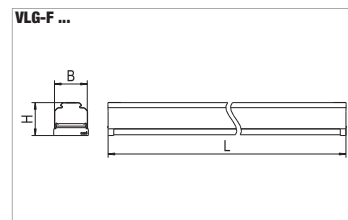
### Additional designs:

**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



### Non-standard versions:

- Emergency light

Shelf-lighting optics (R)



acc. to DIN EN 60598/VDE 0711

### VLG-F ... -5

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F149-5NDWS-475R840	1xLED-M 29 W	4381	31	141	840	1486	76	63	1522413
VLG-F180-5NDWS-686R840	1xLED-M 43 W	6526	48	135	840	1486	76	63	1522415
VLG-F249-5NDWS-950R840	2xLED-M 29 W	8761	62	141	840	1486	76	63	1522414
VLG-F280-5NDWS-1135R840	2xLED-M 34 W	10907	78	139	840	1486	76	63	1522416

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F149-5NDSI-475R840	1xLED-M 29 W	4381	31	141	840	1486	76	63	1522413SI
VLG-F180-5NDSI-686R840	1xLED-M 43 W	6526	48	135	840	1486	76	63	1522415SI
VLG-F249-5NDSI-950R840	2xLED-M 29 W	8761	62	141	840	1486	76	63	1522414SI
VLG-F280-5NDSI-1135R840	2xLED-M 34 W	10907	78	139	840	1486	76	63	1522416SI

### VLG-F ... -7

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F149-7DAWS-475R840	1xLED-M 29 W	4381	31	141	840	1486	76	63	1532413
VLG-F180-7DAWS-686R840	1xLED-M 43 W	6526	48	135	840	1486	76	63	1532415
VLG-F249-7DAWS-950R840	2xLED-M 29 W	8761	62	141	840	1486	76	63	1532414
VLG-F280-7DAWS-1135R840	2xLED-M 34 W	10907	78	139	840	1486	76	63	1532416

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F149-7DASI-475R840	1xLED-M 29 W	4381	31	141	840	1486	76	63	1532413SI
VLG-F180-7DASI-686R840	1xLED-M 43 W	6526	48	135	840	1486	76	63	1532415SI
VLG-F249-7DASI-950R840	2xLED-M 29 W	8761	62	141	840	1486	76	63	1532414SI
VLG-F280-7DASI-1135R840	2xLED-M 34 W	10907	78	139	840	1486	76	63	1532416SI

## VLG-F ...0... with diffuse light distribution

**Design:** LED gear tray made of sectional extruded aluminium, powder coated white (...WS-...), silver (...SI-...) or black (...SW-...). LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium base profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. No thermal coupling between the LED modules and converters. Linear optics in opal coloured UV stabilised PMMA for diffuse light distribution integrated flush in the gear tray. End caps made of thermoplastic for conformity with IP54 protection rating. The width of the gear tray is identical to the trunking. Spring steel clips for fixture of the gear tray in the trunking VLT. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20 and IP54. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

### Note on "Food Hygiene Act":

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.

### Additional designs:

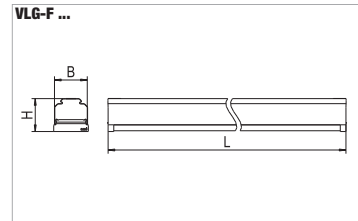
**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit).

100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



### Non-standard versions:

- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Emergency light

Diffuse (0)



## VLG-F ...-0-5

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDWS-2890840	1xLED-M 18 W	2567	21	122	840	1186	64	64	1522215
VLG-F135-5NDWS-3680840	1xLED-M 22 W	3034	25	121	840	1486	64	64	1522216
VLG-F149-5NDWS-4750840	1xLED-M 29 W	3812	31	122	840	1486	64	64	1522220
VLG-F154-5NDWS-4330840	1xLED-M 33 W	3968	34	116	840	1186	64	64	1522219
VLG-F180-5NDWS-6860840	1xLED-M 43 W	5679	48	118	840	1486	64	64	1522221
VLG-F228-5NDWS-5780840	2xLED-M 18 W	5135	42	122	840	1186	64	64	1522217
VLG-F235-5NDWS-7360840	2xLED-M 22 W	6068	50	121	840	1486	64	64	1522218
VLG-F249-5NDWS-9500840	2xLED-M 29 W	7624	62	122	840	1486	64	64	1522223
VLG-F254-5NDWS-8660840	2xLED-M 33 W	7936	68	116	840	1186	64	64	1522222
VLG-F280-5NDWS-11350840	2xLED-M 34 W	9492	78	121	840	1486	64	64	1522224



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDSI-2890840	1xLED-M 18 W	2567	21	122	840	1186	64	64	1522215SI
VLG-F135-5NDSI-3680840	1xLED-M 22 W	3034	25	121	840	1486	64	64	1522216SI
VLG-F149-5NDSI-4750840	1xLED-M 29 W	3812	31	122	840	1486	64	64	1522220SI
VLG-F154-5NDSI-4330840	1xLED-M 33 W	3968	34	116	840	1186	64	64	1522219SI
VLG-F180-5NDSI-6860840	1xLED-M 43 W	5679	48	118	840	1486	64	64	1522221SI
VLG-F228-5NDSI-5780840	2xLED-M 18 W	5135	42	122	840	1186	64	64	1522217SI
VLG-F235-5NDSI-7360840	2xLED-M 22 W	6068	50	121	840	1486	64	64	1522218SI
VLG-F249-5NDSI-9500840	2xLED-M 29 W	7624	62	122	840	1486	64	64	1522223SI
VLG-F254-5NDSI-8660840	2xLED-M 33 W	7936	68	116	840	1186	64	64	1522222SI
VLG-F280-5NDSI-11350840	2xLED-M 34 W	9492	78	121	840	1486	64	64	1522224SI





Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDSW-2890840	1xLED-M 18 W	2224	21	105	840	1186	64	64	1522215SW
VLG-F135-5NDSW-3680840	1xLED-M 22 W	2629	25	105	840	1486	64	64	1522216SW
VLG-F149-5NDSW-4750840	1xLED-M 29 W	3303	31	106	840	1486	64	64	1522220SW
VLG-F154-5NDSW-4330840	1xLED-M 33 W	3437	34	101	840	1186	64	64	1522219SW
VLG-F180-5NDSW-6860840	1xLED-M 43 W	4920	48	102	840	1486	64	64	1522221SW
VLG-F228-5NDSW-5780840	2xLED-M 18 W	4448	42	105	840	1186	64	64	1522217SW
VLG-F235-5NDSW-7360840	2xLED-M 22 W	5257	50	105	840	1486	64	64	1522218SW
VLG-F249-5NDSW-9500840	2xLED-M 29 W	6605	62	106	840	1486	64	64	1522233SW
VLG-F254-5NDSW-8660840	2xLED-M 33 W	6875	68	101	840	1186	64	64	1522223SW

**VLG-F ...-0-7**

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. Lengths equivalent to T16.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DAWS-2890840	1xLED-M 18 W	2567	21	122	840	1186	64	64	1532215
VLG-F135-7DAWS-3680840	1xLED-M 22 W	3034	25	121	840	1486	64	64	1532216
VLG-F149-7DAWS-4750840	1xLED-M 29 W	3812	31	122	840	1486	64	64	1532220
VLG-F154-7DAWS-4330840	1xLED-M 33 W	3968	34	116	840	1186	64	64	1532219
VLG-F180-7DAWS-6860840	1xLED-M 43 W	5679	48	118	840	1486	64	64	1532221
VLG-F228-7DAWS-5780840	2xLED-M 18 W	5135	42	122	840	1186	64	64	1532217
VLG-F235-7DAWS-7360840	2xLED-M 22 W	6068	50	121	840	1486	64	64	1532218
VLG-F249-7DAWS-9500840	2xLED-M 29 W	7624	62	122	840	1486	64	64	1532223
VLG-F254-7DAWS-8660840	2xLED-M 33 W	7936	68	116	840	1186	64	64	1532222
VLG-F280-7DAWS-11350840	2xLED-M 34 W	9492	78	121	840	1486	64	64	1532224



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DASI-2890840	1xLED-M 18 W	2567	21	122	840	1186	64	64	1532215SI
VLG-F135-7DASI-3680840	1xLED-M 22 W	3034	25	121	840	1486	64	64	1532216SI
VLG-F149-7DASI-4750840	1xLED-M 29 W	3812	31	122	840	1486	64	64	1532220SI
VLG-F154-7DASI-4330840	1xLED-M 33 W	3968	34	116	840	1186	64	64	1532219SI
VLG-F180-7DASI-6860840	1xLED-M 43 W	5679	48	118	840	1486	64	64	1532221SI
VLG-F228-7DASI-5780840	2xLED-M 18 W	5135	42	122	840	1186	64	64	1532217SI
VLG-F235-7DASI-7360840	2xLED-M 22 W	6068	50	121	840	1486	64	64	1532218SI
VLG-F249-7DASI-9500840	2xLED-M 29 W	7624	62	122	840	1486	64	64	1532223SI
VLG-F254-7DASI-8660840	2xLED-M 33 W	7936	68	116	840	1186	64	64	1532222SI
VLG-F280-7DASI-11350840	2xLED-M 34 W	9492	78	121	840	1486	64	64	1532224SI



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DASW-2890840	1xLED-M 18 W	2224	21	105	840	1186	64	64	1532215SW
VLG-F135-7DASW-3680840	1xLED-M 22 W	2629	25	105	840	1486	64	64	1532216SW
VLG-F149-7DASW-4750840	1xLED-M 29 W	3303	31	106	840	1486	64	64	1532220SW
VLG-F154-7DASW-4330840	1xLED-M 33 W	3437	34	101	840	1186	64	64	1532219SW
VLG-F180-7DASW-6860840	1xLED-M 43 W	4920	48	102	840	1486	64	64	1532221SW
VLG-F228-7DASW-5780840	2xLED-M 18 W	4448	42	105	840	1186	64	64	1532217SW
VLG-F235-7DASW-7360840	2xLED-M 22 W	5257	50	105	840	1486	64	64	1532218SW
VLG-F249-7DASW-9500840	2xLED-M 29 W	6605	62	106	840	1486	64	64	1532233SW
VLG-F254-7DASW-8660840	2xLED-M 33 W	6875	68	101	840	1186	64	64	1532223SW

## VLG-F ...W... with diffuser for diffuse light distribution and indirect component

**Design:** LED gear tray made of sectional extruded aluminium, powder coated white (...WS-...), silver (...SI-...) or black (...SW-...). RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium base profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. No thermal coupling between the LED modules and converters. Diffuser made of satinised UV-stabilised PMMA for diffuse light distribution including indirect component. Diffuser flush in the gear tray, width of the gear tray and diffuser identical to the trunking. End caps in PMMA to match the diffuser, with insect guard. Spring steel clips for fixture of the gear tray in the trunking VLT. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

### Note on "Food Hygiene Act":

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.

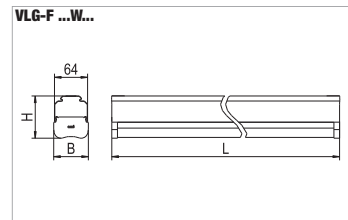
### Additional designs:

**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



### Non-standard versions:

- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Alternative diffuser with reduced indirect component
- Central triangular reflector for more wide beam light distribution and indirect light component
- Emergency light

Diffuse beam with indirect component



### VLG-F ...-W-5

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDWS-290W840	1xLED-M 16 W	2575	17	151	840	1186	67	82	1522256
VLG-F135-5NDWS-370W840	1xLED-M 20 W	3197	22	145	840	1486	67	82	1522257
VLG-F149-5NDWS-500W840	1xLED-M 29 W	4440	31	143	840	1486	67	82	1522259
VLG-F154-5NDWS-400W840	1xLED-M 23 W	3552	25	142	840	1186	67	82	1522258
VLG-F180-5NDWS-680W840	1xLED-M 41 W	6038	43	140	840	1486	67	82	1522260



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDSI-290W840	1xLED-M 16 W	2575	17	151	840	1186	67	82	1522256SI
VLG-F135-5NDSI-370W840	1xLED-M 20 W	3197	22	145	840	1486	67	82	1522257SI
VLG-F149-5NDSI-500W840	1xLED-M 29 W	4440	31	143	840	1486	67	82	1522259SI
VLG-F154-5NDSI-400W840	1xLED-M 23 W	3552	25	142	840	1186	67	82	1522258SI
VLG-F180-5NDSI-680W840	1xLED-M 41 W	6038	43	140	840	1486	67	82	1522260SI



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-F128-5NDSW-290W840	1xLED-M 18 W	2190	17	128	840	1186	67	82	1522256SW
VLG-F135-5NDSW-370W840	1xLED-M 20 W	2718	22	123	840	1486	67	82	1522257SW
VLG-F149-5NDSW-500W840	1xLED-M 29 W	3775	31	121	840	1486	67	82	1522259SW
VLG-F154-5NDSW-400W840	1xLED-M 25 W	3020	25	120	840	1186	67	82	1522258SW
VLG-F180-5NDSW-680W840	1xLED-M 41 W	5134	43	119	840	1486	67	82	1522260SW



**VLG-F ...-W-7**

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11.  
Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DAWS-290W840	1xLED-M 16 W	2575	17	151	840	1186	67	82	1532256
VLG-F135-7DAWS-370W840	1xLED-M 20 W	3197	22	145	840	1486	67	82	1532257
VLG-F149-7DAWS-500W840	1xLED-M 29 W	4440	31	143	840	1486	67	82	1532259
VLG-F154-7DAWS-400W840	1xLED-M 23 W	3552	25	142	840	1186	67	82	1532258
VLG-F180-7DAWS-680W840	1xLED-M 41 W	6038	43	140	840	1486	67	82	1532260

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DASI-290W840	1xLED-M 16 W	2575	17	151	840	1186	67	82	1532256SI
VLG-F135-7DASI-370W840	1xLED-M 20 W	3197	22	145	840	1486	67	82	1532257SI
VLG-F149-7DASI-500W840	1xLED-M 29 W	4440	31	143	840	1486	67	82	1532259SI
VLG-F154-7DASI-400W840	1xLED-M 23 W	3552	25	142	840	1186	67	82	1532258SI
VLG-F180-7DASI-680W840	1xLED-M 44 W	6038	43	140	840	1486	67	82	1532260SI

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-F128-7DASW-290W840	1xLED-M 18 W	2190	17	128	840	1186	67	82	1532256SW
VLG-F135-7DASW-370W840	1xLED-M 20 W	2718	22	123	840	1486	67	82	1532257SW
VLG-F149-7DASW-500W840	1xLED-M 29 W	3775	31	121	840	1486	67	82	1532259SW
VLG-F154-7DASW-400W840	1xLED-M 25 W	3020	25	120	840	1186	67	82	1532258SW
VLG-F180-7DASW-680W840	1xLED-M 41 W	5134	43	119	840	1486	67	82	1532260SW



## VLPG-F ...T... with narrow beam light distribution

**Design:** LED gear tray made of sectional extruded aluminium, powder coated white. Coated RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium base profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. No thermal coupling between the LED modules and converters. Linear optics with narrow beam light distribution in clear, UV-stabilized PMMA, integrated flush into the surface of the gear tray.

Oil-resistant seals, end caps made of thermoplastic, light grey (similar to RAL7035), for conformity with IP54 protection rating. The width of the gear tray is identical to the trunking. Spring steel clips for fixture of the gear tray in the trunking VLT. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20 and IP54. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Optical and colour coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

**Note:** LED fitted with nanocoating for increased resistance to corrosive gasses.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), 6500 Kelvin (865), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

**Note:** Consultation with the factory is mandatory for use in environments contaminated with chemicals.

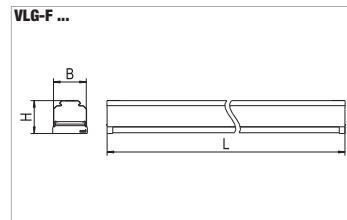
### Additional designs:

**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



### Non-standard versions:

- Light colour 830 (3000 Kelvin)
- Emergency light

Narrow beam (T)



acc. to DIN EN 60598/VDE 0711

### VLPG-F ... -5 (T16)

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLPG-F149-5NDWS-475T840	1xLED-M 29 W	4003	31	129	840	1486	67	64	1522433
VLPG-F149-5NDWS-475T865	1xLED-M 29 W	4003	31	129	865	1486	67	64	1522446
VLPG-F180-5NDWS-686T840	1xLED-M 43 W	5964	48	124	840	1486	67	64	1522435
VLPG-F180-5NDWS-686T865	1xLED-M 43 W	5964	48	124	865	1486	67	64	1522448
VLPG-F249-5NDWS-950T840	2xLED-M 29 W	8007	62	129	840	1486	67	64	1522437
VLPG-F249-5NDWS-950T865	2xLED-M 29 W	8007	62	129	865	1486	67	64	1522450
VLPG-F280-5NDWS-1135T840	2xLED-M 34 W	9967	78	127	840	1486	67	64	1522439
VLPG-F280-5NDWS-1135T865	2xLED-M 34 W	9967	78	127	865	1486	67	64	1522452

### VLPG-F ... -7 (T16)

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLPG-F149-7DAWS-475T840	1xLED-M 29 W	4003	31	129	840	1486	67	64	1532433
VLPG-F149-7DAWS-475T865	1xLED-M 29 W	4003	31	129	865	1486	67	64	1532446
VLPG-F180-7DAWS-686T840	1xLED-M 43 W	5964	48	124	840	1486	67	64	1532435
VLPG-F180-7DAWS-686T865	1xLED-M 43 W	5964	48	124	865	1486	67	64	1532448
VLPG-F249-7DAWS-950T840	2xLED-M 29 W	8007	62	129	840	1486	67	64	1532437
VLPG-F249-7DAWS-950T865	2xLED-M 29 W	8007	62	129	865	1486	67	64	1532450
VLPG-F280-7DAWS-1135T840	2xLED-M 34 W	9967	78	127	840	1486	67	64	1532439
VLPG-F280-7DAWS-1135T865	2xLED-M 34 W	9967	78	127	865	1486	67	64	1532452

**VLPG-F ...B... with wide beam light distribution**

**Design:** LED gear tray made of sectional extruded aluminium, powder coated white (...WS-...) or silver (...SI-...). Coated RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium base profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. No thermal coupling between the LED modules and converters. Linear optics with wide beam light distribution made of clear, UV-stabilised PMMA integrated flush in the gear tray.

Oil-resistant seals, end caps made of thermoplastic, light grey (similar to RAL7035), for conformity with IP54 protection rating. The width of the gear tray is identical to the trunking. Spring steel clips for fixture of the gear tray in the trunking VLT. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20 and IP54. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

**Note:** LED fitted with nanocoating for increased resistance to corrosive gasses.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), 6500 Kelvin (865), other colour temperatures possible on request.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

**Note:** Consultation with the factory is mandatory for use in environments contaminated with chemicals.

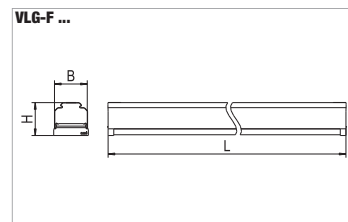
**Additional designs:**

**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



**Non-standard versions:**

- Light colour 830 (3000 Kelvin)
- Emergency light

Wide beam (B)



acc. to DIN EN 60598/VDE 0711

**VLPG-F ... -5 (T16)**

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLPG-F149-5NDWS-475B840	1xLED-M 29 W	4317	31	139	840	1486	67	64	1522432
VLPG-F149-5NDWS-475B865	1xLED-M 29 W	4317	31	139	865	1486	67	64	1522445
VLPG-F180-5NDWS-686B840	1xLED-M 43 W	6431	48	133	840	1486	67	64	1522434
VLPG-F180-5NDWS-686B865	1xLED-M 43 W	6431	48	133	865	1486	67	64	1522447
VLPG-F249-5NDWS-950B840	2xLED-M 29 W	8634	62	139	840	1486	67	64	1522436
VLPG-F249-5NDWS-950B865	2xLED-M 29 W	8634	62	139	865	1486	67	64	1522449
VLPG-F280-5NDWS-1135B840	2xLED-M 34 W	10748	78	137	840	1486	67	64	1522438
VLPG-F280-5NDWS-1135B865	2xLED-M 34 W	10748	78	137	865	1486	67	64	1522451

**VLPG-F ... -7 (T16)**

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. Lengths equivalent to T16.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLPG-F149-7DAWS-475B840	1xLED-M 29 W	4317	31	139	840	1486	67	64	1532432
VLPG-F149-7DAWS-475B865	1xLED-M 29 W	4317	31	139	865	1486	67	64	1532445
VLPG-F180-7DAWS-686B840	1xLED-M 43 W	6431	48	133	840	1486	67	64	1532434
VLPG-F180-7DAWS-686B865	1xLED-M 43 W	6431	48	133	865	1486	67	64	1532447
VLPG-F249-7DAWS-950B840	2xLED-M 29 W	8634	62	139	840	1486	67	64	1532436
VLPG-F249-7DAWS-950B865	2xLED-M 29 W	8634	62	139	865	1486	67	64	1532449
VLPG-F280-7DAWS-1135B840	2xLED-M 34 W	10748	78	137	840	1486	67	64	1532438
VLPG-F280-7DAWS-1135B865	2xLED-M 34 W	10748	78	137	865	1486	67	64	1532451





## Accessories for VLPG-F...

Model	Description	Prod. code
VLPG-FK	Cover for seal VLPTVD, white, 1 unit	0208969
VLPG-FK NETZ	Cover for seal VLPTVD at mains connector, white, 1 unit	0208970
VLPNE-11F	Mains conn. wiring 11-core, stranded IP20/54, oilpr., 1 pc.	1207207
VLPNE-11S	Mains conn. wiring 11-core, single w. IP20/54, oilpr., 1 pc.	1207204
VLPNE-5F	Mains conn. wiring 5-core, stranded IP20/54, oilpr., 1 pc.	1207205
VLPNE-5S	Mains conn. wiring 5-core, single w. IP20/54, oilpr., 1 pc.	1207202
VLPNE-7F	Mains conn. wiring 7-core, stranded IP20/54, oilpr., 1 pc.	1207206
VLPNE-7S	Mains conn. wiring 7-core, single w. IP20/54, oilpr., 1 pc.	1207203
VLPSBK 361	Dummy cover, L=1227 mm, IP54, oilpr., white plastic	1207196
VLPSBK 581	Dummy cover, L=1527 mm, IP54, oilpr., white plastic	1207197
VLPSBK-T16 541	Dummy cover, L=1176 mm, IP54, oilpr., white plastic	1207198
VLPSBK-T16 801	Dummy cover, L=1476 mm, IP54, oilpr., white plastic	1207199
VLPSBKD	Dummy cover seal VLPSBK oilpr. for IP54, 1 pc.	1207200
VLPTVD	Trunking seal oilpr. for IP54, 1 pc.	1207201
VLTE	Trunking end cap, white, plastic, 1 pc	0205791



## VLG-FS ...MP... with microprism panel for all-round glare reduction

**Design:** LED gear tray made of sectional extruded aluminium, powder coated white (...WS-...), silver (...SI-...) or black (...SW-...) with enlarged light outlet surface. RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium base profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. No thermal coupling between the LED modules and converters. Service life L80B50 at 50.000h. All-round glare reduction due to microprism UV-stabilised PMMA panel. End caps in powder-coated steel for protection rating IP54. Optional clear panel insertable in the factory for simple removal of dirt deposits underneath (protection rating IP40). Spring steel clips for fixture of the gear tray in the trunking VLT. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

### Additional designs:

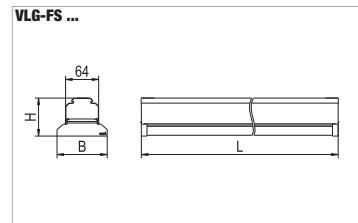
**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit).

100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



### Non-standard versions:

- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Emergency light

All-round glare reduction (MP)



acc. to DIN EN 60598/VDE 0711

### VLG-FS ...-MP-5

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm] L B H	el. conv. Prod. code
VLG-FS135-5NDWS-370MP840	1xLED-M 22 W	3299	25	131	840	1486 97 74	1522293
VLG-FS149-5NDWS-480MP840	1xLED-M 29 W	4145	31	133	840	1486 97 74	1522305
VLG-FS154-5NDWS-430MP840	1xLED-M 33 W	4315	34	126	840	1186 97 74	1522302
VLG-FS180-5NDWS-690MP840	1xLED-M 43 W	6176	48	128	840	1486 97 74	1522308
VLG-FS249-5NDWS-960MP840	2xLED-M 29 W	8095	62	130	840	1486 97 74	1522314
VLG-FS254-5NDWS-860MP840	2xLED-M 33 W	8425	68	123	840	1186 97 74	1522311
VLG-FS280-5NDWS-1140MP840	2xLED-M 34 W	10077	78	129	840	1486 97 74	1522317



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm] L B H	el. conv. Prod. code
VLG-FS135-5NDSI-370MP840	1xLED-M 22 W	3299	25	131	840	1486 97 74	1522293SI
VLG-FS149-5NDSI-480MP840	1xLED-M 29 W	4145	31	133	840	1486 97 74	1522305SI
VLG-FS154-5NDSI-430MP840	1xLED-M 33 W	4315	34	126	840	1186 97 74	1522302SI
VLG-FS180-5NDSI-690MP840	1xLED-M 43 W	6176	48	128	840	1486 97 74	1522308SI
VLG-FS249-5NDSI-960MP840	2xLED-M 29 W	8095	62	130	840	1486 97 74	1522314SI
VLG-FS254-5NDSI-860MP840	2xLED-M 33 W	8425	68	123	840	1186 97 74	1522311SI
VLG-FS280-5NDSI-1140MP840	2xLED-M 34 W	10077	78	129	840	1486 97 74	1522317SI



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm] L B H	el. conv. Prod. code
VLG-FS128-5NDSW-310MP840	1xLED-M 18 W	2132	21	101	840	1186 97 74	1522290SW
VLG-FS135-5NDSW-370MP840	1xLED-M 22 W	2519	25	100	840	1486 97 74	1522293SW
VLG-FS149-5NDSW-480MP840	1xLED-M 29 W	3165	31	102	840	1486 97 74	1522305SW
VLG-FS154-5NDSW-430MP840	1xLED-M 33 W	3295	34	96	840	1186 97 74	1522302SW
VLG-FS180-5NDSW-690MP840	1xLED-M 43 W	4716	48	98	840	1486 97 74	1522308SW
VLG-FS228-5NDSW-620MP840	2xLED-M 18 W	4264	42	101	840	1186 97 74	1522296SW
VLG-FS235-5NDSW-740MP840	2xLED-M 22 W	5039	50	100	840	1486 97 74	1522299SW
VLG-FS249-5NDSW-960MP840	2xLED-M 29 W	6331	62	102	840	1486 97 74	1522314SW
VLG-FS254-5NDSW-860MP840	2xLED-M 33 W	6589	68	96	840	1186 97 74	1522311SW



**VLG-FS ...-MP-7**

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11.  
Lengths equivalent to T16.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-FS135-7DAWS-370MP840	1xLED-M 22 W	3299	25	131	840	1486	97	74	1532293
VLG-FS149-7DAWS-480MP840	1xLED-M 29 W	4145	31	133	840	1486	97	74	1532305
VLG-FS154-7DAWS-430MP840	1xLED-M 33 W	4315	34	126	840	1186	97	74	1532302
VLG-FS180-7DAWS-690MP840	1xLED-M 43 W	6176	48	128	840	1486	97	74	1532308
VLG-FS249-7DAWS-960MP840	2xLED-M 29 W	8095	62	130	840	1486	97	74	1532314
VLG-FS254-7DAWS-860MP840	2xLED-M 33 W	8425	68	123	840	1186	97	74	1532311
VLG-FS280-7DAWS-1140MP840	2xLED-M 34 W	10077	78	129	840	1486	97	74	1532317

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-FS135-7DASI-370MP840	1xLED-M 22 W	3299	25	131	840	1486	97	74	1532293SI
VLG-FS149-7DASI-480MP840	1xLED-M 29 W	4145	31	133	840	1486	97	74	1532305SI
VLG-FS154-7DASI-430MP840	1xLED-M 33 W	4315	34	126	840	1186	97	74	1532302SI
VLG-FS180-7DASI-690MP840	1xLED-M 43 W	6176	48	128	840	1486	97	74	1532308SI
VLG-FS249-7DASI-960MP840	2xLED-M 29 W	8095	62	130	840	1486	97	74	1532314SI
VLG-FS254-7DASI-860MP840	2xLED-M 33 W	8425	68	123	840	1186	97	74	1532311SI
VLG-FS280-7DASI-1140MP840	2xLED-M 34 W	10077	78	129	840	1486	97	74	1532317SI

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-FS128-7DASW-310MP840	1xLED-M 18 W	2132	21	101	840	1186	97	74	1532290SW
VLG-FS135-7DASW-370MP840	1xLED-M 22 W	2519	25	100	840	1486	97	74	1532293SW
VLG-FS149-7DASW-480MP840	1xLED-M 29 W	3165	31	102	840	1486	97	74	1532305SW
VLG-FS154-7DASW-430MP840	1xLED-M 33 W	3295	34	96	840	1186	97	74	1532302SW
VLG-FS180-7DASW-690MP840	1xLED-M 43 W	4716	48	98	840	1486	97	74	1532308SW
VLG-FS228-7DASW-620MP840	2xLED-M 18 W	4264	42	101	840	1186	97	74	1532296SW
VLG-FS235-7DASW-740MP840	2xLED-M 22 W	5039	50	100	840	1486	97	74	1532299SW
VLG-FS249-7DASW-960MP840	2xLED-M 29 W	6331	62	102	840	1486	97	74	1532314SW
VLG-FS254-7DASW-860MP840	2xLED-M 33 W	6589	68	96	840	1186	97	74	1532311SW



## VLG-FS ...BQP... with wide-beam light distribution and cross prism panel for longitudinal glare reduction

**Design:** LED gear tray made of sectional extruded aluminium, powder coated white (...WS-...), silver (...Sl-...) or black (...SW-...) with enlarged light outlet surface. RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium base profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. No thermal coupling between the LED modules and converters. Service life L80B50 at 50.000h. Linear optics with wide-beam light distribution made of transparent UV-stabilised PMMA integrated in the gear tray. Longitudinal glare reduction through cross-prism UV-stabilised PMMA panel. End caps in powder-coated steel for protection rating IP54. Optional clear panel insertable in the factory for simple removal of dirt deposits underneath (protection rating IP40). Spring steel clips for fixture of the gear tray in the trunking VLT. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

### Additional designs:

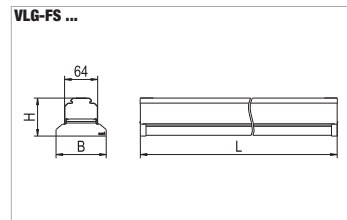
**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit).

100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



### Non-standard versions:

- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Emergency light

Longitudinal glare reduction (BQP)



acc. to DIN EN 60598/VDE 0711

### VLG-FS ...-BQP-5

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-FS135-5NDWS-370BQP840	1xLED-M 22 W	3229	25	129	840	1486	97	74	1522294
VLG-FS149-5NDWS-480BQP840	1xLED-M 29 W	4057	31	130	840	1486	97	74	1522306
VLG-FS154-5NDWS-430BQP840	1xLED-M 33 W	4223	34	124	840	1186	97	74	1522303
VLG-FS180-5NDWS-690BQP840	1xLED-M 43 W	6044	48	125	840	1486	97	74	1522309
VLG-FS249-5NDWS-960BQP840	2xLED-M 29 W	8114	62	130	840	1486	97	74	1522315
VLG-FS254-5NDWS-860BQP840	2xLED-M 33 W	8446	68	124	840	1186	97	74	1522312
VLG-FS280-5NDWS-1140BQP840	2xLED-M 34 W	10102	78	129	840	1486	97	74	1522318



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-FS135-5NDSI-370BQP840	1xLED-M 22 W	3229	25	129	840	1486	97	74	1522294SI
VLG-FS149-5NDSI-480BQP840	1xLED-M 29 W	4057	31	130	840	1486	97	74	1522306SI
VLG-FS154-5NDSI-430BQP840	1xLED-M 33 W	4223	34	124	840	1186	97	74	1522303SI
VLG-FS180-5NDSI-690BQP840	1xLED-M 43 W	6044	48	125	840	1486	97	74	1522309SI
VLG-FS249-5NDSI-960BQP840	2xLED-M 29 W	8114	62	130	840	1486	97	74	1522315SI
VLG-FS254-5NDSI-860BQP840	2xLED-M 33 W	8446	68	124	840	1186	97	74	1522312SI
VLG-FS280-5NDSI-1140BQP840	2xLED-M 34 W	10102	78	129	840	1486	97	74	1522318SI



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-FS128-5NDSW-310BQP840	1xLED-M 18 W	-tba-	-tba-	-tba-	840	1186	97	74	1522291SW
VLG-FS135-5NDSW-370BQP840	1xLED-M 22 W	-tba-	-tba-	-tba-	840	1486	97	74	1522294SW
VLG-FS149-5NDSW-480BQP840	1xLED-M 29 W	-tba-	-tba-	-tba-	840	1486	97	74	1522306SW
VLG-FS154-5NDSW-430BQP840	1xLED-M 33 W	-tba-	-tba-	-tba-	840	1186	97	74	1522303SW
VLG-FS180-5NDSW-690BQP840	1xLED-M 43 W	-tba-	-tba-	-tba-	840	1486	97	74	1522309SW
VLG-FS228-5NDSW-620BQP840	2xLED-M 18 W	-tba-	-tba-	-tba-	840	1186	97	74	1522297SW
VLG-FS235-5NDSW-740BQP840	2xLED-M 22 W	-tba-	-tba-	-tba-	840	1486	97	74	1522300SW
VLG-FS249-5NDSW-960BQP840	2xLED-M 29 W	-tba-	-tba-	-tba-	840	1486	97	74	1522315SW
VLG-FS254-5NDSW-860BQP840	2xLED-M 33 W	-tba-	-tba-	-tba-	840	1186	97	74	1522312SW



**VLG-FS ...-BQP-7**

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-FS135-7DAWS-370BQP840	1xLED-M 22 W	3229	25	129	840	1486	97	74	1532294
VLG-FS149-7DAWS-480BQP840	1xLED-M 29 W	4057	31	130	840	1486	97	74	1532306
VLG-FS154-7DAWS-430BQP840	1xLED-M 33 W	4223	34	124	840	1186	97	74	1532303
VLG-FS180-7DAWS-690BQP840	1xLED-M 43 W	6044	48	125	840	1486	97	74	1532309
VLG-FS249-7DAWS-960BQP840	2xLED-M 29 W	8114	62	130	840	1486	97	74	1532315
VLG-FS254-7DAWS-860BQP840	2xLED-M 33 W	8446	68	124	840	1186	97	74	1532312
VLG-FS280-7DAWS-1140BQP840	2xLED-M 34 W	10102	78	129	840	1486	97	74	1532318



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-FS135-7DASI-370BQP840	1xLED-M 22 W	3229	25	129	840	1486	97	74	1532294SI
VLG-FS149-7DASI-480BQP840	1xLED-M 29 W	4057	31	130	840	1486	97	74	1532306SI
VLG-FS154-7DASI-430BQP840	1xLED-M 33 W	4223	34	124	840	1186	97	74	1532303SI
VLG-FS180-7DASI-690BQP840	1xLED-M 43 W	6044	48	125	840	1486	97	74	1532309SI
VLG-FS249-7DASI-960BQP840	2xLED-M 29 W	8114	62	130	840	1486	97	74	1532315SI
VLG-FS254-7DASI-860BQP840	2xLED-M 33 W	8446	68	124	840	1186	97	74	1532312SI
VLG-FS280-7DASI-1140BQP840	2xLED-M 34 W	10102	78	129	840	1486	97	74	1532318SI



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-FS128-7DASW-310BQP840	1xLED-M 18 W	-tba-	-tba-	-tba-	840	1186	97	74	1532291SW
VLG-FS135-7DASW-370BQP840	1xLED-M 22 W	-tba-	-tba-	-tba-	840	1486	97	74	1532294SW
VLG-FS149-7DASW-480BQP840	1xLED-M 29 W	-tba-	-tba-	-tba-	840	1486	97	74	1532306SW
VLG-FS154-7DASW-430BQP840	1xLED-M 33 W	-tba-	-tba-	-tba-	840	1186	97	74	1532303SW
VLG-FS180-7DASW-690BQP840	1xLED-M 43 W	-tba-	-tba-	-tba-	840	1486	97	74	1532309SW
VLG-FS228-7DASW-620BQP840	2xLED-M 18 W	-tba-	-tba-	-tba-	840	1186	97	74	1532297SW
VLG-FS235-7DASW-740BQP840	2xLED-M 22 W	-tba-	-tba-	-tba-	840	1486	97	74	1532300SW
VLG-FS249-7DASW-960BQP840	2xLED-M 29 W	-tba-	-tba-	-tba-	840	1486	97	74	1532315SW
VLG-FS254-7DASW-860BQP840	2xLED-M 33 W	-tba-	-tba-	-tba-	840	1186	97	74	1532312SW



VLMF-LUPO

**Design:** Spotlight module insert LUPO for mounting in trunking VLT in combinatin with gear trays VLG-F. Supplementary module VLM... in extruded sectional aluminium, powder coated white, silver (-SI) or black (-SW). Spring steel clips for mounting on trunking.

VLMF... modules can be positioned variably between the gear trays VGL-F... . Electrical adapters for flexible take-off of the through-wiring in the trunking. Colour and and optical coding for simple mounting. Mechanical coding prevents inadvertent polarity reversal. Spotlights rotate around the module and are wired to electrical adapters. Conical reflector housing dia. 101 in die cast aluminium with internal cooling fins for maintenance-free passive cooling.

Spotlight with swivel and tilt fixture for 350° swivel and 90° tilt action. Surface powder coated in white (similar to RAL 9016), silver (SI, similar to RAL 9006) or black (FSW; similar to RAL 9005). The reflector / accessories are mounted without the need for tools using a plug-in system with spring clamps between the reflector housing and closing ring in die-cast aluminium. Specular reflector made of pure aluminium. Clear protective glass normally prefitted. Prefitted COB LED modules.

Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

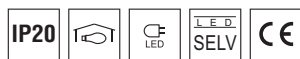
Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

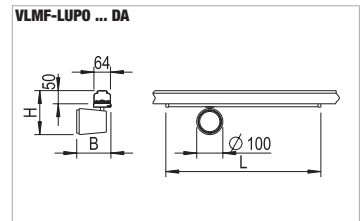
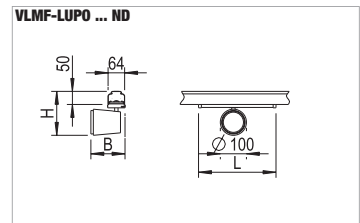
- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Mounting on VLT ... trunking by means of quick-release catches.

**Note:** Supplementary modules VLM... generally comply with protection rating IP 20. The emergency lighting versions can be used in systems complying to VDE 0108



acc. to DIN EN 60598/VDE 0711



**Non-standard versions:**

- Other colour temperatures and renderings



**VLMF-LUPO ... S**

Specular reflector in pure aluminium, 15° spot reflector beam angle.

Model	Lamps	Luminaire luminous flux (lm)	Luminaire output (W)	Luminaire efficiency (lm/W)	Luminous colour	Dimens. (mm)			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
VLMF-LUPO 3000-830 S	1xLED-M 29 W	2410	29	83	830	300	132	170	0326566//680	
VLMF-LUPO 3000-830 S-DA	1xLED-M 29 W	2410	29	83	830	600	132	170		0336566//680
VLMF-LUPO 3000-830 S-SI	1xLED-M 29 W	2410	29	83	830	300	132	170	0326566SI680	
VLMF-LUPO 3000-830 S-SI-DA	1xLED-M 29 W	2410	29	83	830	600	132	170		0336566SI680
VLMF-LUPO 3000-830 S-SW	1xLED-M 29 W	2410	29	83	830	300	132	170	0326566SW680	
VLMF-LUPO 3000-830 S-SW-DA	1xLED-M 29 W	2410	29	83	830	600	132	170		0336566SW680
VLMF-LUPO 3000-840 S	1xLED-M 29 W	2590	29	89	840	300	132	170	0326567//680	
VLMF-LUPO 3000-840 S-DA	1xLED-M 29 W	2590	29	89	840	600	132	170		0336567//680
VLMF-LUPO 3000-840 S-SI	1xLED-M 29 W	2590	29	89	840	300	132	170	0326567SI680	
VLMF-LUPO 3000-840 S-SI-DA	1xLED-M 29 W	2590	29	89	840	600	132	170		0336567SI680
VLMF-LUPO 3000-840 S-SW	1xLED-M 29 W	2590	29	89	840	300	132	170	0326567SW680	
VLMF-LUPO 3000-840 S-SW-DA	1xLED-M 29 W	2590	29	89	840	600	132	170		0336567SW680
VLMF-LUPO 3800-830 S	1xLED-M 36 W	2890	36	80	830	300	132	170	0326572//680	
VLMF-LUPO 3800-830 S-DA	1xLED-M 36 W	2890	36	80	830	600	132	170		0336572//680
VLMF-LUPO 3800-830 S-SI	1xLED-M 36 W	2890	36	80	830	300	132	170	0326572SI680	
VLMF-LUPO 3800-830 S-SI-DA	1xLED-M 36 W	2890	36	80	830	600	132	170		0336572SI680
VLMF-LUPO 3800-830 S-SW	1xLED-M 36 W	2890	36	80	830	300	132	170	0326572SW680	
VLMF-LUPO 3800-830 S-SW-DA	1xLED-M 36 W	2890	36	80	830	600	132	170		0336572SW680
VLMF-LUPO 3800-840 S	1xLED-M 36 W	3200	36	88	840	300	132	170	0326573//680	
VLMF-LUPO 3800-840 S-DA	1xLED-M 36 W	3200	36	88	840	600	132	170		0336573//680
VLMF-LUPO 3800-840 S-SI	1xLED-M 36 W	3200	36	88	840	300	132	170	0326573SI680	
VLMF-LUPO 3800-840 S-SI-DA	1xLED-M 36 W	3200	36	88	840	600	132	170		0336573SI680
VLMF-LUPO 3800-840 S-SW	1xLED-M 36 W	3200	36	88	840	300	132	170	0326573SW680	
VLMF-LUPO 3800-840 S-SW-DA	1xLED-M 36 W	3200	36	88	840	600	132	170		0336573SW680



**VLMF-LUPO ... M**  
Specular reflector in pure aluminium, 25° medium reflector beam angle.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
VLMF-LUPO 3000-830 M	1xLED-M 29 W	2300	29	79	830	300	132	170	0326568//680	
VLMF-LUPO 3000-830 M-DA	1xLED-M 29 W	2300	29	79	830	600	132	170		0336568//680
VLMF-LUPO 3000-830 M-SI	1xLED-M 29 W	2300	29	79	830	300	132	170	0326568SI680	
VLMF-LUPO 3000-830 M-SI-DA	1xLED-M 29 W	2300	29	79	830	600	132	170		0336568SI680
VLMF-LUPO 3000-830 M-SW	1xLED-M 29 W	2300	29	79	830	300	132	170	0326568SW680	
VLMF-LUPO 3000-830 M-SW-DA	1xLED-M 29 W	2300	29	79	830	600	132	170		0336568SW680
VLMF-LUPO 3000-840 M	1xLED-M 29 W	2480	29	85	840	300	132	170	0326569//680	
VLMF-LUPO 3000-840 M-DA	1xLED-M 29 W	2480	29	85	840	600	132	170		0336569//680
VLMF-LUPO 3000-840 M-SI	1xLED-M 29 W	2480	29	85	840	300	132	170	0326569SI680	
VLMF-LUPO 3000-840 M-SI-DA	1xLED-M 29 W	2480	29	85	840	600	132	170		0336569SI680
VLMF-LUPO 3000-840 M-SW	1xLED-M 29 W	2480	29	85	840	300	132	170	0326569SW680	
VLMF-LUPO 3000-840 M-SW-DA	1xLED-M 29 W	2480	29	85	840	600	132	170		0336569SW680
VLMF-LUPO 3800-830 M	1xLED-M 36 W	2890	36	80	830	300	132	170	0326574//680	
VLMF-LUPO 3800-830 M-DA	1xLED-M 36 W	2890	36	80	830	600	132	170		0336574//680
VLMF-LUPO 3800-830 M-SI	1xLED-M 36 W	2890	36	80	830	300	132	170	0326574SI680	
VLMF-LUPO 3800-830 M-SI-DA	1xLED-M 36 W	2890	36	80	830	600	132	170		0336574SI680
VLMF-LUPO 3800-830 M-SW	1xLED-M 36 W	2890	36	80	830	300	132	170	0326574SW680	
VLMF-LUPO 3800-830 M-SW-DA	1xLED-M 36 W	2890	36	80	830	600	132	170		0336574SW680
VLMF-LUPO 3800-840 M	1xLED-M 36 W	3200	36	88	840	300	132	170	0326575//680	
VLMF-LUPO 3800-840 M-DA	1xLED-M 36 W	3200	36	88	840	600	132	170		0336575//680
VLMF-LUPO 3800-840 M-SI	1xLED-M 36 W	3200	36	88	840	300	132	170	0326575SI680	
VLMF-LUPO 3800-840 M-SI-DA	1xLED-M 36 W	3200	36	88	840	600	132	170		0336575SI680
VLMF-LUPO 3800-840 M-SW	1xLED-M 36 W	3200	36	88	840	300	132	170	0326575SW680	
VLMF-LUPO 3800-840 M-SW-DA	1xLED-M 36 W	3200	36	88	840	600	132	170		0336575SW680



**VLMF-LUPO ... F**  
Specular reflector in pure aluminium, 35° flood reflector beam angle.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
VLMF-LUPO 3000-830 F	1xLED-M 29 W	2380	29	82	830	300	132	170	0326560//680	
VLMF-LUPO 3000-830 F-DA	1xLED-M 29 W	2380	29	82	830	600	132	170		0336560//680
VLMF-LUPO 3000-830 F-SI	1xLED-M 29 W	2380	29	82	830	300	132	170	0326560SI680	
VLMF-LUPO 3000-830 F-SI-DA	1xLED-M 29 W	2380	29	82	830	600	132	170		0336560SI680
VLMF-LUPO 3000-830 F-SW	1xLED-M 29 W	2380	29	82	830	300	132	170	0326560SW680	
VLMF-LUPO 3000-830 F-SW-DA	1xLED-M 29 W	2380	29	82	830	600	132	170		0336560SW680
VLMF-LUPO 3000-840 F	1xLED-M 29 W	2560	29	88	840	300	132	170	0326561//680	
VLMF-LUPO 3000-840 F-DA	1xLED-M 29 W	2560	29	88	840	600	132	170		0336561//680
VLMF-LUPO 3000-840 F-SI	1xLED-M 29 W	2560	29	88	840	300	132	170	0326561SI680	
VLMF-LUPO 3000-840 F-SI-DA	1xLED-M 29 W	2560	29	88	840	600	132	170		0336561SI680
VLMF-LUPO 3000-840 F-SW	1xLED-M 29 W	2560	29	88	840	300	132	170	0326561SW680	
VLMF-LUPO 3000-840 F-SW-DA	1xLED-M 29 W	2560	29	88	840	600	132	170		0336561SW680
VLMF-LUPO 3800-830 F	1xLED-M 36 W	2920	36	81	830	300	132	170	0326562//680	
VLMF-LUPO 3800-830 F-DA	1xLED-M 36 W	2920	36	81	830	600	132	170		0336562//680
VLMF-LUPO 3800-830 F-SI	1xLED-M 36 W	2920	36	81	830	300	132	170	0326562SI680	
VLMF-LUPO 3800-830 F-SI-DA	1xLED-M 36 W	2920	36	81	830	600	132	170		0336562SI680
VLMF-LUPO 3800-830 F-SW	1xLED-M 36 W	2920	36	81	830	300	132	170	0326562SW680	
VLMF-LUPO 3800-830 F-SW-DA	1xLED-M 36 W	2920	36	81	830	600	132	170		0336562SW680
VLMF-LUPO 3800-840 F	1xLED-M 36 W	3240	36	90	840	300	132	170	0326563//680	
VLMF-LUPO 3800-840 F-DA	1xLED-M 36 W	3240	36	90	840	600	132	170		0336563//680
VLMF-LUPO 3800-840 F-SI	1xLED-M 36 W	3240	36	90	840	300	132	170	0326563SI680	
VLMF-LUPO 3800-840 F-SI-DA	1xLED-M 36 W	3240	36	90	840	600	132	170		0336563SI680
VLMF-LUPO 3800-840 F-SW	1xLED-M 36 W	3240	36	90	840	300	132	170	0326563SW680	
VLMF-LUPO 3800-840 F-SW-DA	1xLED-M 36 W	3240	36	90	840	600	132	170		0336563SW680



**VLMF-LUPO ... SF**

Specular reflector in pure aluminium, 50° super-flood reflector beam angle.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
VLMF-LUPO 3000-830 SF	1xLED-M 29 W	2260	29	77	830	300	132	170	0326570//680	
VLMF-LUPO 3000-830 SF-DA	1xLED-M 29 W	2260	29	77	830	600	132	170		0336570//680
VLMF-LUPO 3000-830 SF-SI	1xLED-M 29 W	2260	29	77	830	300	132	170	0326570SI680	
VLMF-LUPO 3000-830 SF-SI-DA	1xLED-M 29 W	2260	29	77	830	600	132	170		0336570SI680
VLMF-LUPO 3000-830 SF-SW	1xLED-M 29 W	3240	36	90	830	300	132	170	0326570SW680	
VLMF-LUPO 3000-830 SF-SW-DA	1xLED-M 29 W	2260	29	77	830	600	132	170		0336570SW680
VLMF-LUPO 3000-840 SF	1xLED-M 29 W	2440	29	84	840	300	132	170	0326571//680	
VLMF-LUPO 3000-840 SF-DA	1xLED-M 29 W	2440	29	84	840	600	132	170		0336571//680
VLMF-LUPO 3000-840 SF-SI	1xLED-M 29 W	2440	29	84	840	300	132	170	0326571SI680	
VLMF-LUPO 3000-840 SF-SI-DA	1xLED-M 29 W	2440	29	84	840	600	132	170		0336571SI680
VLMF-LUPO 3000-840 SF-SW	1xLED-M 29 W	2440	29	84	840	300	132	170	0326571SW680	
VLMF-LUPO 3000-840 SF-SW-DA	1xLED-M 29 W	2440	29	84	840	600	132	170		0336571SW680
VLMF-LUPO 3800-830 SF	1xLED-M 36 W	2800	36	77	830	300	132	170	0326576//680	
VLMF-LUPO 3800-830 SF-DA	1xLED-M 36 W	2800	36	77	830	600	132	170		0336576//680
VLMF-LUPO 3800-830 SF-SI	1xLED-M 36 W	2800	36	77	830	300	132	170	0326576SI680	
VLMF-LUPO 3800-830 SF-SI-DA	1xLED-M 36 W	2800	36	77	830	600	132	170		0336576SI680
VLMF-LUPO 3800-830 SF-SW	1xLED-M 36 W	2800	36	77	830	300	132	170	0326576SW680	
VLMF-LUPO 3800-830 SF-SW-DA	1xLED-M 36 W	2800	36	77	830	600	132	170		0336576SW680
VLMF-LUPO 3800-840 SF	1xLED-M 36 W	3130	36	86	840	300	132	170	0326577//680	
VLMF-LUPO 3800-840 SF-DA	1xLED-M 36 W	3130	36	86	840	600	132	170		0336577//680
VLMF-LUPO 3800-840 SF-SI	1xLED-M 36 W	3130	36	86	840	300	132	170	0326577SI680	
VLMF-LUPO 3800-840 SF-SI-DA	1xLED-M 36 W	3130	36	86	840	600	132	170		0336577SI680
VLMF-LUPO 3800-840 SF-SW	1xLED-M 36 W	3130	36	86	840	300	132	170	0326577SW680	
VLMF-LUPO 3800-840 SF-SW-DA	1xLED-M 36 W	3130	36	86	840	600	132	170		0336577SW680



Photo: Boris Golz

VLMF-KARO

**Design:** Spotlight module insert KARO for mounting in trunking VLT in combination with gear trays VLG-F. Supplementary module VLM... in extruded sectional aluminium, powder coated white, silver (-SI) or black (-SW). Spring steel clips for mounting on trunking. VLMF... modules can be positioned variably between the gear trays VGL-F... Electrical adapters for flexible take-off of the through-wiring in the trunking. Colour and optical coding for simple mounting. Mechanical coding prevents inadvertent polarity reversal. Spotlights rotate around the module and are wired to electrical adapters. Various lenses available for different applications, 46° flood (-F), 28° medium (-M), 11° spot (-S). Spotlight series in contemporary square design. Spot housing square with rounded corners. Spot head can be rotated by 360° and swivelled by 110°. RIDI LED module with high-power LEDs and efficient TIR optics, passive cooling via the spot head. Spot head, converter housing and retaining arm in die-cast aluminium. Surfaces structured and powder coated in white (similar RAL 9016), silver (similar to RAL 9006) or black (similar to RAL 9005). Trim surrounding the individual LEDs powder coated in black. The module length of non-dimmable types is 300 mm, the length of dimmable types is 600 mm. Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

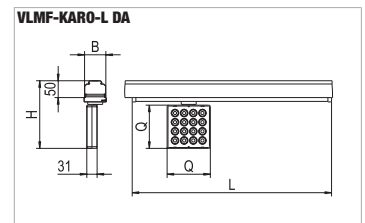
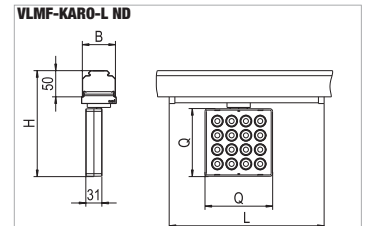
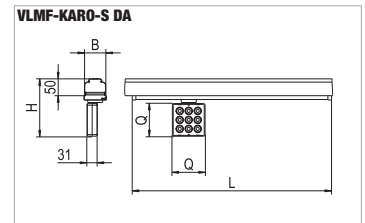
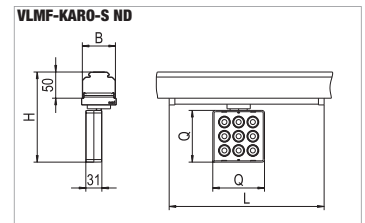
Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Mounting on VLT ... trunking by means of quick-release catches.

**Note:** Supplementary modules VLM... generally comply with protection rating IP 20. The emergency lighting versions can be used in systems complying with VDE 0108



**Non-standard versions:**

- Body in RAL colour of choice
- Other colour temperatures and renderings



**VLMF-KARO-S**

Spotlight head dimensions 100 x 100 mm, thickness 31 mm. RIDI LED module with 9 high-power LEDs. Integrated cooling for maintenance-free passive cooling.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	Q		
VLMF-KARO-S 2500-840 F	9xLED 2,7 W	1790	26	68	840	300	64	175	100	0321886//680	
VLMF-KARO-S 2500-840 F	9xLED 2,7 W	1790	26	68	840	600	64	175	100		0331886//680
VLMF-KARO-S 2500-840 F-SI	9xLED 2,7 W	1790	26	68	840	300	64	175	100	0321886SI680	
VLMF-KARO-S 2500-840 F-SI	9xLED 2,7 W	1790	26	68	840	600	64	175	100		0331886SI680
VLMF-KARO-S 2500-840 F-SW	9xLED 2,7 W	1790	26	68	840	300	64	175	100	0321886SW680	
VLMF-KARO-S 2500-840 F-SW	9xLED 2,7 W	1790	26	68	840	600	64	175	100		0331886SW680
VLMF-KARO-S 2500-840 M	9xLED 2,7 W	2120	26	81	840	300	64	175	100	0321885//680	
VLMF-KARO-S 2500-840 M	9xLED 2,7 W	2120	26	81	840	600	64	175	100		0331885//680
VLMF-KARO-S 2500-840 M-SI	9xLED 2,7 W	2120	26	81	840	300	64	175	100	0321885SI680	
VLMF-KARO-S 2500-840 M-SI	9xLED 2,7 W	2120	26	81	840	600	64	175	100		0331885SI680
VLMF-KARO-S 2500-840 M-SW	9xLED 2,7 W	2120	26	81	840	300	64	175	100	0321885SW680	
VLMF-KARO-S 2500-840 M-SW	9xLED 2,7 W	2120	26	81	840	600	64	175	100		0331885SW680
VLMF-KARO-S 2500-840 S	9xLED 2,7 W	2160	26	83	840	300	64	175	100	0321884//680	
VLMF-KARO-S 2500-840 S	9xLED 2,7 W	2160	26	83	840	600	64	175	100		0331884//680
VLMF-KARO-S 2500-840 S-SI	9xLED 2,7 W	2160	26	83	840	300	64	175	100	0321884SI680	
VLMF-KARO-S 2500-840 S-SI	9xLED 2,7 W	2160	26	83	840	600	64	175	100		0331884SI680
VLMF-KARO-S 2500-840 S-SW	9xLED 2,7 W	2160	26	83	840	300	64	175	100	0321884SW680	
VLMF-KARO-S 2500-840 S-SW	9xLED 2,7 W	2160	26	83	840	600	64	175	100		0331884SW680





**VLMF-KARO-L**

Spotlight head dimensions 130 x 130 mm, thickness 31 mm. RIDI LED module with 16 high-power LEDs. Integrated cooling for maintenance-free passive cooling.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	Q		
VLMF-KARO-L 3500-840 F	16xLED 2,1 W	2786	37	75	840	300	64	205	130	0321889//680	
VLMF-KARO-L 3500-840 F	16xLED 2,1 W	2786	37	75	840	600	64	205	130		0331889//680
VLMF-KARO-L 3500-840 F-SI	16xLED 2,1 W	2786	37	75	840	300	64	205	130	0321889SI680	
VLMF-KARO-L 3500-840 F-SI	16xLED 2,1 W	2786	37	75	840	600	64	205	130		0331889SI680
VLMF-KARO-L 3500-840 F-SW	16xLED 2,1 W	2786	37	75	840	300	64	205	130	0321889SW680	
VLMF-KARO-L 3500-840 F-SW	16xLED 2,1 W	2786	37	75	840	600	64	205	130		0331889SW680
VLMF-KARO-L 3500-840 M	16xLED 2,1 W	3322	37	89	840	300	64	205	130	0321888//680	
VLMF-KARO-L 3500-840 M	16xLED 2,1 W	3322	37	89	840	600	64	205	130		0331888//680
VLMF-KARO-L 3500-840 M-SI	16xLED 2,1 W	3322	37	89	840	300	64	205	130	0321888SI680	
VLMF-KARO-L 3500-840 M-SI	16xLED 2,1 W	3322	37	89	840	600	64	205	130		0331888SI680
VLMF-KARO-L 3500-840 M-SW	16xLED 2,1 W	3322	37	89	840	300	64	205	130	0321888SW680	
VLMF-KARO-L 3500-840 M-SW	16xLED 2,1 W	3322	37	89	840	600	64	205	130		0331888SW680
VLMF-KARO-L 3500-840 S	16xLED 2,1 W	3357	37	90	840	300	64	205	130	0321887//680	
VLMF-KARO-L 3500-840 S	16xLED 2,1 W	3357	37	90	840	600	64	205	130		0331887//680
VLMF-KARO-L 3500-840 S-SI	16xLED 2,1 W	3357	37	90	840	300	64	205	130	0321887SI680	
VLMF-KARO-L 3500-840 S-SI	16xLED 2,1 W	3357	37	90	840	600	64	205	130		0331887SI680
VLMF-KARO-L 3500-840 S-SW	16xLED 2,1 W	3357	37	90	840	300	64	205	130	0321887SW680	
VLMF-KARO-L 3500-840 S-SW	16xLED 2,1 W	3357	37	90	840	600	64	205	130		0331887SW680



VLMF-PABLO

**Design:** Spotlight module insert PABLO for mounting in trunking VLT in combination with gear trays VLG-F. Supplementary module VLM... in extruded sectional aluminium, powder coated white (...WS-...) or silver (...SI-...). Spring steel clips for mounting on trunking. VLMF... modules can be positioned variably between the gear trays VLG-F... Electrical adapters for flexible take-off of the through-wiring in the trunking. Colour and optical coding for simple mounting. Mechanical coding prevents inadvertent polarity reversal. Spotlights rotate around the module and are wired to electrical adapters. Various lenses available for different applications, (flood, medium, spot). Spotlight module in which only the white or silver (SI) powder-coated reflector housing is visible. Sectional aluminium and steel reflector housing rotates and swivels around a high gloss nickel plated articulated joint. Spot head can be rotated by 360° and swivelled by 90°. Locating ring of the cover panel in die-cast aluminium. 1 and 2-lamp modules available. Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

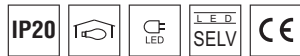
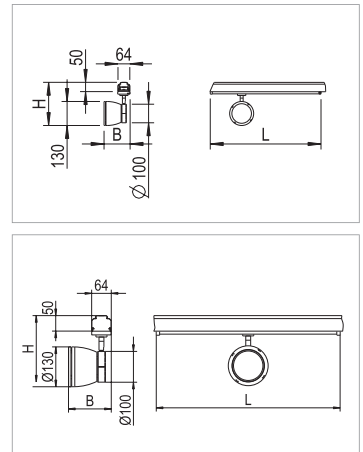
Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Mounting on VLT ... trunking by means of quick-release catches.

**Note:** Supplementary modules VLM... generally comply with protection rating IP 20. The emergency lighting versions can be used in systems complying to VDE 0108



acc. to DIN EN 60598/VDE 0711



**VLMF-PABLO ... S**

Spotlight housing diameter 100 mm, locating ring diameter 130 mm. LED module chip-on-board with LED-specific holder. Passive cooling. Beam angle 10° spot (-S).

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
VLMF-PABLO-L LED 2650-840 S	1xLED-M 18 W	1903	21	90	840	300	141	186	0321841//680	
VLMF-PABLO-L LED 2650-840 S	1xLED-M 18 W	1903	21	90	840	600	141	233		0331841//680
VLMF-PABLO-L LED 2650-840 S-SI	1xLED-M 18 W	1903	21	90	840	300	141	186	0321841SI680	
VLMF-PABLO-L LED 2650-840 S-SI	1xLED-M 18 W	1903	21	90	840	600	141	233		0331841SI680
VLMF-PABLO-L LED 3550-840 S	1xLED-M 25 W	2549	29	87	840	300	141	186	0321843//680	
VLMF-PABLO-L LED 3550-840 S	1xLED-M 25 W	2549	29	87	840	600	141	233		0331843//680
VLMF-PABLO-L LED 3550-840 S-SI	1xLED-M 25 W	2549	29	87	840	300	141	186	0321843SI680	
VLMF-PABLO-L LED 3550-840 S-SI	1xLED-M 25 W	2549	29	87	840	600	141	233		0331843SI680



**VLMF-PABLO ... M**

Spotlight housing diameter 100 mm, locating ring diameter 130 mm. LED module chip-on-board with LED-specific holder. Passive cooling. Beam angle 30° medium (-M).

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
VLMF-PABLO-L LED 2650-840 M	1xLED-M 18 W	2205	21	105	840	300	141	233	0321856//680	
VLMF-PABLO-L LED 2650-840 M	1xLED-M 18 W	2205	21	105	840	600	141	233		0331856//680
VLMF-PABLO-L LED 2650-840 M-SI	1xLED-M 18 W	2205	21	105	840	300	141	233	0321856SI680	
VLMF-PABLO-L LED 2650-840 M-SI	1xLED-M 18 W	2205	21	105	840	600	141	233		0331856SI680
VLMF-PABLO-L LED 3550-840 M	1xLED-M 25 W	2954	29	101	840	300	141	233	0321857//680	
VLMF-PABLO-L LED 3550-840 M	1xLED-M 25 W	2954	29	101	840	600	141	233		0331857//680
VLMF-PABLO-L LED 3550-840 M-SI	1xLED-M 25 W	2954	29	101	840	300	141	233	0321857SI680	
VLMF-PABLO-L LED 3550-840 M-SI	1xLED-M 25 W	2954	29	101	840	600	141	233		0331857SI680



**VLMF-PABLO ... F**

Spotlight housing diameter 100 mm, locating ring diameter 130 mm. LED module chip-on-board with LED-specific holder. Passive cooling. Beam angle 65° flood (-F).

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
VLMF-PABLO-L LED 2650-840 F	1xLED-M 18 W	1770	21	84	840	300	141	186	0321842//680	
VLMF-PABLO-L LED 2650-840 F	1xLED-M 18 W	1770	21	84	840	600	141	233		0331842//680
VLMF-PABLO-L LED 2650-840 F-SI	1xLED-M 18 W	1770	21	84	840	300	141	186	0321842SI680	
VLMF-PABLO-L LED 2650-840 F-SI	1xLED-M 18 W	1770	21	84	840	600	141	233		0331842SI680
VLMF-PABLO-L LED 3550-840 F	1xLED-M 25 W	2371	29	81	840	300	141	233	0321844//680	
VLMF-PABLO-L LED 3550-840 F	1xLED-M 25 W	2371	29	81	840	600	141	233		0331844//680
VLMF-PABLO-L LED 3550-840 F-SI	1xLED-M 25 W	2371	29	81	840	300	141	233	0321844SI680	
VLMF-PABLO-L LED 3550-840 F-SI	1xLED-M 25 W	2371	29	81	840	600	141	233		0331844SI680





Shed 8

16117

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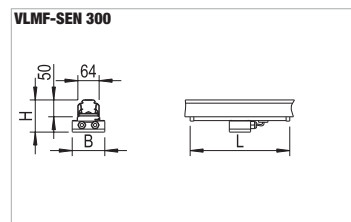
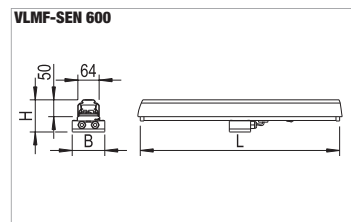
**VLMF-SEN**

**Design:** Sensor module unit for mounting in VLT mounting bar in combination with VLG-F gear trays. Add-on module VLMF ... made of aluminium profile, extruded, white powder coated. Spring steel clamps for fastening to the mounting bar. The VLMF... modules can be positioned variably between the VLG-F ... gear trays. Electrical adapter for flexible power feed tapping in the mounting bar. Colour and optical coding for simple installation. Mechanical coding to prevent faulty installation (anti-rotation protection).

Depending on the number of the controlled lamps/pieces of equipment, up to 5 additional VLMF-SEN 300-7 DALI-VS's can be mutually operated on the DALI line. Depending on the number of sensors, up to 64 lamps/pieces of equipment can be mutually operated on the DALI line.



acc. to DIN EN 60598/VDE 0711



**Non-standard versions:**

- Silver or black powder coated



**VLMF-SEN 600-7 (DALI-VS-CON)**

Gear tray with brightness sensor incl. controller for daylight-dependent control. Integrated button to set target value. The dimming function can be deactivated using DIP switches on the controller. The set dimming level is always the light control target value and is saved in the case of mains interruption. To extend brightness coverage, the system can be expanded using the VLMF-SEN 300-7 DALI-VS gear tray (Item no.: 1500089).

**Note:** Cannot be switched or dimmed using external buttons (not wireless buttons).

Model	Dimens. [mm]			Prod. code
	L	B	H	
VLMF-SEN 600-7 DALI-VS-CON	600	98	100	1500104



**VLMF-SEN 600-11 (DALI-VS-CON)**

Gear tray with brightness sensor incl. controller for daylight-dependent control. Integrated button to set target value. The dimming function can be deactivated using DIP switches on the controller. The set dimming level is always the light control target value and is saved in the case of mains interruption. To extend brightness coverage, the system can be expanded using the VLMF-SEN 300-7 DALI-VS gear tray (Item no.: 1500089).

**Note:** When using external buttons to switch and dim (not wireless buttons), use 11-pin trunking.

**Note:** Cannot be used in trunking with two emergency lighting circuits. In this case, use VLMF-SEN 600-7 DALI-VS-CON (Item no.: 1500104).

Model	Dimens. [mm]			Prod. code
	L	B	H	
VLMF-SEN 600-11 DALI-VS-CON	600	98	100	1500100

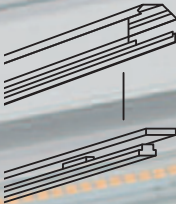
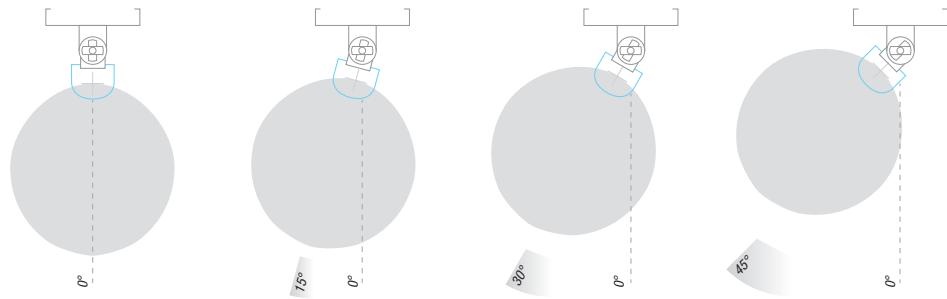
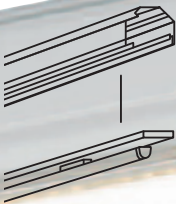


**VLMF-SEN 300-7 (DALI-VS)**

Gear tray with brightness sensor for daylight-dependent control. Use in combination with Items 1500100 VLMF-SEN 600-11 DALI-VS-CON or 1500104 VLMF-SEN 600-7 DALI-VS-CON.

Model	Dimens. [mm]			Prod. code
	L	B	H	
VLMF-SEN 300-7 DALI-VS	300	98	100	1500089





Narrow beam (T)



Extreme narrow beam (E)



Wide beam (B)



Diffuse (O)



Asymmetrical (A)



Double asymmetrical (D)



– Rotatable in 15° steps, see above –

# RIDI LINIA-TURN

## VLG-T with LED lamp L-TUBE-T, swivel-mounted lamp

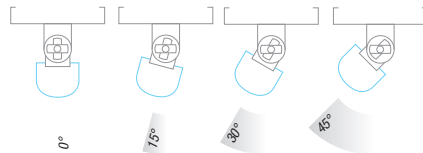
### Lengths

1186 mm	Comparable with gear tray for: T16 28 W / 54 W
1237 mm	T26 36 W
1486 mm	T16 35 W / 49 W / 80 W
1537 mm	T26 58 W

The exchangeable L-TUBE-T mounted in swivel bearings can be adjusted without tools in 15° steps from 0 to 45°.

For different applications, it is possible to select from different L-TUBE-T covers (clear, matt or opal). The light distribution changes depending on the position of the lamp and can be variably adjusted as required. L-TUBE-T lamps are included in the scope of delivery.

Changing the lamp: The L-TUBE with fixture clips into the gear tray, and is removed by pressing in the catches using a screwdriver.



## VLG-TF (TURN-FLAT) with LED lamp L-TUBE-T\* with linear optics, swivel-mounted lamp

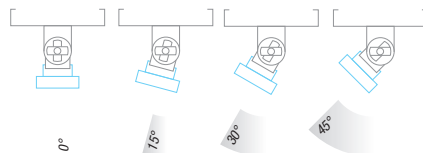
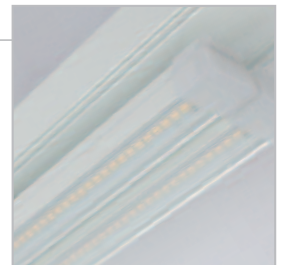
### Lengths

1186 mm	Comparable with gear tray for: T16 28 W / 54 W
1237 mm	T26 36 W
1486 mm	T16 35 W / 49 W / 80 W
1537 mm	T26 58 W

The exchangeable L-TUBE-TF mounted in swivel bearings can be adjusted without tools in 15° steps from 0 to 45°.

The light distribution changes depending on the position of the lamp and can be variably adjusted as required. L-TUBE-TF lamps are included in the scope of delivery.

Changing the lamp: The L-TUBE-TF with fixture clips into the gear tray, and is removed by pressing in the catches using a screwdriver



## VLG-T ...K... with lamp L-TUBE-T, clear

**Design:** Profiled LED gear tray in galvanised white coated steel. RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency and even illumination. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. L-TUBE-T included with cover in clear PMMA for efficient light emission, end cap in durable PC to match the colour of the cover. No thermal coupling between the LED modules and converters. Service life L80B50 at 50.000h. Plastic-coated quick-release catch for fixture in the trunking and for fastening the optical controls. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Fixture system:** Lamp held by an adapter unit, can be swivelled from 0°-45° in 15° steps without the use of tools. Lamp can be exchanged by means of an adapter unit.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

### Additional designs:

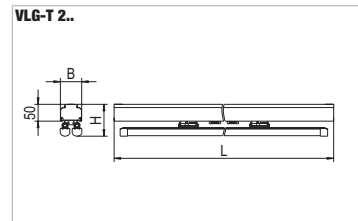
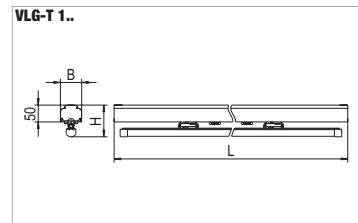
**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

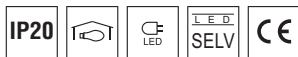
**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit).

100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



### Non-standard versions:

- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Emergency light



acc. to DIN EN 60598/VDE 0711



### VLG-T ... -5 (T16)

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-T128-5ND-300K840	1xL-TUBE-T1 18 W	3200	21	152	840	1186	64	96	1250000
VLG-T135-5ND-360K840	1xL-TUBE-T1 22 W	3900	25	156	840	1486	64	96	1250003
VLG-T149-5ND-490K840	1xL-TUBE-T1 27 W	4800	31	154	840	1486	64	96	1250027
VLG-T154-5ND-500K840	1xL-TUBE-T1 30 W	5000	34	147	840	1186	64	96	1250024
VLG-T180-5ND-680K840	1xL-TUBE-T1 42 W	7100	48	147	840	1486	64	96	1250030
VLG-T228-5ND-600K840	1xL-TUBE-T2 36 W	6400	42	152	840	1186	65	96	1250006
VLG-T235-5ND-720K840	1xL-TUBE-T2 44 W	7200	50	144	840	1486	65	96	1250009
VLG-T249-5ND-980K840	1xL-TUBE-T2 54 W	9600	62	154	840	1486	65	96	1250036
VLG-T254-5ND-1000K840	1xL-TUBE-T2 60 W	10000	68	147	840	1186	65	96	1250033
VLG-T280-5ND-1360K840	1xL-TUBE-T2 84 W	14200	96	147	840	1486	65	96	1250039



### VLG-T ... -7 (T16)

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-T128-7DA-300K840	1xL-TUBE-T1 18 W	3200	21	152	840	1186	64	96	1260000
VLG-T135-7DA-360K840	1xL-TUBE-T1 22 W	3900	25	156	840	1486	64	96	1260003
VLG-T149-7DA-490K840	1xL-TUBE-T1 27 W	4800	31	154	840	1486	64	96	1260027
VLG-T154-7DA-500K840	1xL-TUBE-T1 30 W	5000	34	147	840	1186	64	96	1260024
VLG-T180-7DA-680K840	1xL-TUBE-T1 42 W	7100	48	147	840	1486	64	96	1260030
VLG-T228-7DA-600K840	1xL-TUBE-T2 36 W	6400	42	152	840	1186	65	96	1260006
VLG-T235-7DA-720K840	1xL-TUBE-T2 44 W	7200	50	144	840	1486	65	96	1260009
VLG-T249-7DA-980K840	1xL-TUBE-T2 54 W	9600	62	154	840	1486	65	96	1260036
VLG-T254-7DA-1000K840	1xL-TUBE-T2 60 W	10000	68	147	840	1186	65	96	1260033
VLG-T280-7DA-1360K840	1xL-TUBE-T2 84 W	14200	96	147	840	1486	65	96	1260039





**VLG-T ... -5 (T26)**

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11.  
Lengths equivalent to T26.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-T136-5ND-360K840	1xL-TUBE-T1 22 W	3800	25	152	840	1237	64	96	1250012
VLG-T158-5ND-530K840	1xL-TUBE-T1 30 W	5400	35	154	840	1537	64	96	1250015
VLG-T236-5ND-720K840	1xL-TUBE-T2 44 W	7600	50	152	840	1237	65	96	1250018
VLG-T258-5ND-1060K840	1xL-TUBE-T2 60 W	10800	70	154	840	1537	65	96	1250021

**VLG-T ... -7 (T26)**

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11.  
Lengths equivalent to T26.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-T136-7DA-360K840	1xL-TUBE-T1 22 W	3800	25	152	840	1237	64	96	1260012
VLG-T158-7DA-530K840	1xL-TUBE-T1 30 W	5400	35	154	840	1537	64	96	1260015
VLG-T236-7DA-720K840	1xL-TUBE-T2 44 W	7600	50	152	840	1237	65	96	1260018
VLG-T258-7DA-1060K840	1xL-TUBE-T2 60 W	10800	70	154	840	1537	65	96	1260021



## VLG-T ...M... with lamp L-TUBE-T, matt

**Design:** Profiled LED gear tray in galvanised white coated steel. RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency and even illumination. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. L-TUBE-T included with cover in satinised PMMA for efficient light emission, end cap in durable PC to match the colour of the cover. No thermal coupling between the LED modules and converters. Service life L80B50 at 50.000h. Plastic-coated quick-release catch for fixture in the trunking and for fastening the optical controls. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Fixture system:** Lamp held by an adapter unit, can be swivelled from 0°-45° in 15° steps without the use of tools. Lamp can be exchanged by means of an adapter unit.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

### Additional designs:

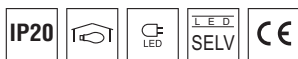
**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

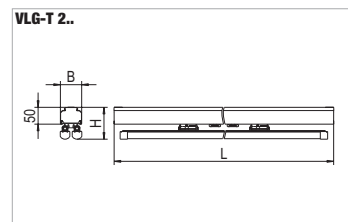
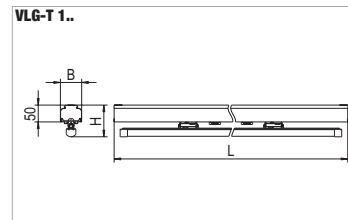
**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit).

100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



acc. to DIN EN 60598/VDE 0711



### Non-standard versions:

- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Emergency light



### VLG-T ... -5

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-T128-5ND-280M840	1xL-TUBE-T1 18 W	3000	21	142	840	1186	64	96	1250001
VLG-T135-5ND-340M840	1xL-TUBE-T1 22 W	3600	25	144	840	1486	64	96	1250004
VLG-T149-5ND-450M840	1xL-TUBE-T1 27 W	4500	31	145	840	1486	64	96	1250028
VLG-T154-5ND-470M840	1xL-TUBE-T1 30 W	4700	34	138	840	1186	64	96	1250025
VLG-T180-5ND-630M840	1xL-TUBE-T1 42 W	6600	48	137	840	1486	64	96	1250031
VLG-T228-5ND-560M840	1xL-TUBE-T2 36 W	6000	42	142	840	1186	65	96	1250007
VLG-T235-5ND-680M840	1xL-TUBE-T2 44 W	7200	50	144	840	1486	65	96	1250010
VLG-T249-5ND-900M840	1xL-TUBE-T2 54 W	9000	62	145	840	1486	65	96	1250037
VLG-T254-5ND-940M840	1xL-TUBE-T2 60 W	9400	68	138	840	1186	65	96	1250034
VLG-T280-5ND-1260M840	1xL-TUBE-T2 84 W	13200	96	137	840	1486	65	96	1250040



### VLG-T ... -7

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-T128-7DA-280M840	1xL-TUBE-T1 18 W	3000	21	142	840	1186	64	96	1260001
VLG-T135-7DA-340M840	1xL-TUBE-T1 22 W	3600	25	144	840	1486	64	96	1260004
VLG-T149-7DA-450M840	1xL-TUBE-T1 27 W	4500	31	145	840	1486	64	96	1260028
VLG-T154-7DA-470M840	1xL-TUBE-T1 30 W	4700	34	138	840	1186	64	96	1260025
VLG-T180-7DA-630M840	1xL-TUBE-T1 42 W	6600	48	137	840	1486	64	96	1260031
VLG-T228-7DA-560M840	1xL-TUBE-T2 36 W	6000	42	142	840	1186	65	96	1260007
VLG-T235-7DA-680M840	1xL-TUBE-T2 44 W	7200	50	144	840	1486	65	96	1260010
VLG-T249-7DA-900M840	1xL-TUBE-T2 54 W	9000	62	145	840	1486	65	96	1260037
VLG-T254-7DA-940M840	1xL-TUBE-T2 60 W	9400	68	138	840	1186	65	96	1260034
VLG-T280-7DA-1260M840	1xL-TUBE-T2 84 W	13200	96	137	840	1486	65	96	1260040



**VLG-T ... -5**

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11.  
Lengths equivalent to T26.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-T136-5ND-330M840	1xL-TUBE-T1 22 W	3600	25	144	840	1237	64	96	1250013
VLG-T158-5ND-490M840	1xL-TUBE-T1 30 W	5000	35	142	840	1537	64	96	1250016
VLG-T236-5ND-660M840	1xL-TUBE-T2 44 W	7200	50	144	840	1237	65	96	1250019
VLG-T258-5ND-980M840	1xL-TUBE-T2 60 W	10000	70	142	840	1537	65	96	1250022

**VLG-T ... -7**

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11.  
Lengths equivalent to T26.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-T136-7DA-330M840	1xL-TUBE-T1 22 W	3600	25	144	840	1237	64	96	1260013
VLG-T158-7DA-490M840	1xL-TUBE-T1 30 W	5000	35	142	840	1537	64	96	1260016
VLG-T236-7DA-660M840	1xL-TUBE-T2 44 W	7200	50	144	840	1237	65	96	1260019
VLG-T258-7DA-980M840	1xL-TUBE-T2 60 W	10000	70	142	840	1537	65	96	1260022



# Gear tray VLG-T ...0...

## VLG-T ...0... with lamp L-TUBE-T, opal

**Design:** Profiled LED gear tray in galvanised white coated steel. RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency and even illumination. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. L-TUBE-T included with cover in opal PMMA for efficient light emission, end cap in durable PC to match the colour of the cover. No thermal coupling between the LED modules and converters. Service life L80B50 at 50.000h. Plastic-coated quick-release catch for fixture in the trunking and for fastening the optical controls. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Fixture system:** Lamp held by an adapter unit, can be swivelled from 0°-45° in 15° steps without the use of tools. Lamp can be exchanged by means of an adapter unit.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

### Additional designs:

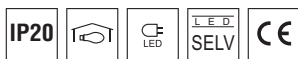
**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

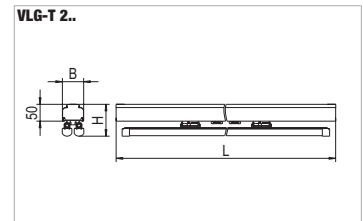
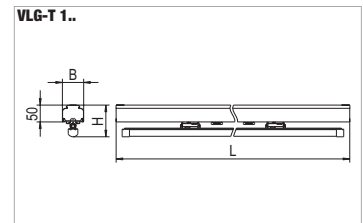
**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit).

100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



acc. to DIN EN 60598/VDE 0711



### Non-standard versions:

- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Emergency light



### VLG-T ... -5

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.

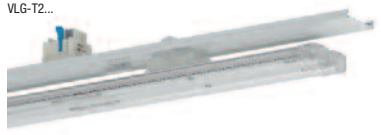
Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-T128-5ND-2500840	1xL-TUBE-T1 18 W	2700	21	128	840	1186	64	96	1250002
VLG-T135-5ND-3000840	1xL-TUBE-T1 22 W	3200	25	128	840	1486	64	96	1250005
VLG-T149-5ND-4100840	1xL-TUBE-T1 27 W	4100	31	132	840	1486	64	96	1250029
VLG-T154-5ND-4200840	1xL-TUBE-T1 30 W	4200	34	123	840	1186	64	96	1250026
VLG-T180-5ND-5700840	1xL-TUBE-T1 42 W	6000	48	125	840	1486	64	96	1250032
VLG-T228-5ND-5000840	1xL-TUBE-T2 36 W	5400	42	128	840	1186	65	96	1250008
VLG-T235-5ND-6000840	1xL-TUBE-T2 44 W	6400	50	128	840	1486	65	96	1250011
VLG-T249-5ND-8200840	1xL-TUBE-T2 54 W	8200	62	132	840	1486	65	96	1250038
VLG-T254-5ND-8400840	1xL-TUBE-T2 60 W	8400	68	123	840	1186	65	96	1250035
VLG-T280-5ND-11400840	1xL-TUBE-T2 84 W	12000	96	125	840	1486	65	96	1250041



### VLG-T ... -7

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-T128-7DA-2500840	1xL-TUBE-T1 18 W	2700	21	128	840	1186	64	96	1260002
VLG-T135-7DA-3000840	1xL-TUBE-T1 22 W	3200	25	128	840	1486	64	96	1260005
VLG-T149-7DA-4100840	1xL-TUBE-T1 27 W	4100	31	132	840	1486	64	96	1260029
VLG-T154-7DA-4200840	1xL-TUBE-T1 30 W	4200	34	123	840	1186	64	96	1260026
VLG-T180-7DA-5700840	1xL-TUBE-T1 42 W	6000	48	125	840	1486	64	96	1260032
VLG-T228-7DA-5000840	1xL-TUBE-T2 36 W	5400	42	128	840	1186	65	96	1260008
VLG-T235-7DA-6000840	1xL-TUBE-T2 44 W	6400	50	128	840	1486	65	96	1260011
VLG-T249-7DA-8200840	1xL-TUBE-T2 54 W	8200	62	132	840	1486	65	96	1260038
VLG-T254-7DA-8400840	1xL-TUBE-T2 60 W	8400	68	123	840	1186	65	96	1260035
VLG-T280-7DA-11400840	1xL-TUBE-T2 84 W	12000	96	125	840	1486	65	96	1260041



**VLG-T ... -5**

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11.  
Lengths equivalent to T26.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-T136-5ND-3000840	1xL-TUBE-T1 22 W	3200	25	128	840	1237	64	96	1250014
VLG-T158-5ND-4500840	1xL-TUBE-T1 30 W	4500	35	128	840	1537	64	96	1250017
VLG-T236-5ND-6000840	1xL-TUBE-T2 44 W	6400	50	128	840	1237	65	96	1250020
VLG-T258-5ND-9000840	1xL-TUBE-T2 60 W	9000	70	128	840	1537	65	96	1250023

**VLG-T ... -7**

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11.  
Lengths equivalent to T26.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-T136-7DA-3000840	1xL-TUBE-T1 22 W	3200	25	128	840	1237	64	96	1260014
VLG-T158-7DA-4500840	1xL-TUBE-T1 30 W	4500	35	128	840	1537	64	96	1260017
VLG-T236-7DA-6000840	1xL-TUBE-T2 44 W	6400	50	128	840	1237	65	96	1260020
VLG-T258-7DA-9000840	1xL-TUBE-T2 60 W	9000	70	128	840	1537	65	96	1260023



# Gear tray VLG-TF ...T...

## VLG-TF ...T... with lamp L-TUBE-TF, narrow beam light distribution

**Design:** Profiled LED gear tray in galvanised white coated steel. RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. L-TUBE-TF included. No thermal coupling between the LED modules and converters. Service life L80B50 at 50.000h. Linear optics in transparent UV-stabilised PMMA integrated in the aluminium profiles for narrow-beam light distribution. End caps in durable PC to match the colour of the cover. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Fixture system:** Lamp held by an adapter unit, can be swivelled from 0°-45° in 15° steps without the use of tools. Lamp can be exchanged by means of an adapter unit.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

**Additional designs:**

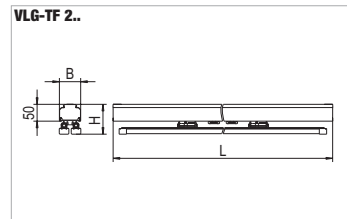
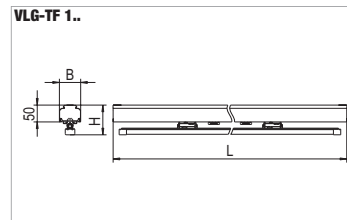
**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit).

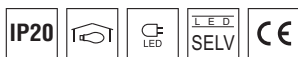
100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



**Non-standard versions:**

- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Emergency light

Narrow beam (T)



acc. to DIN EN 60598/VDE 0711



**VLG-TF ... -5**

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm] L B H	el. conv. Prod. code
VLG-TF128-5ND-330T840	1xL-TUBE-TF1 18 W	2835	21	135	840	1186 64 94	0250149
VLG-TF135-5ND-390T840	1xL-TUBE-TF1 22 W	3350	25	134	840	1486 64 94	0250137
VLG-TF149-5ND-490T840	1xL-TUBE-TF1 27 W	4209	31	135	840	1486 64 94	0250143
VLG-TF154-5ND-510T840	1xL-TUBE-TF1 30 W	4381	34	128	840	1186 64 94	0250155
VLG-TF180-5ND-730T840	1xL-TUBE-TF1 42 W	6271	48	130	840	1486 64 94	0250131
VLG-TF228-5ND-660T840	1xL-TUBE-TF2 36 W	5669	42	134	840	1186 68 94	0250173
VLG-TF235-5ND-780T840	1xL-TUBE-TF2 44 W	6700	50	134	840	1486 68 94	0250167
VLG-TF249-5ND-980T840	1xL-TUBE-TF2 54 W	8418	62	135	840	1486 68 94	0250161
VLG-TF254-5ND-1020T840	1xL-TUBE-TF2 60 W	8762	68	128	840	1186 68 94	0250179



**VLG-TF ... -7**

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm] L B H	dim. conv. DALI Prod. code
VLG-TF128-7DA-330T840	1xL-TUBE-TF1 18 W	2835	21	135	840	1186 64 94	0260149
VLG-TF135-7DA-390T840	1xL-TUBE-TF1 22 W	3350	25	134	840	1486 64 94	0260137
VLG-TF149-7DA-490T840	1xL-TUBE-TF1 27 W	4209	31	135	840	1486 64 94	0260143
VLG-TF154-7DA-510T840	1xL-TUBE-TF1 30 W	4381	34	128	840	1186 64 94	0260155
VLG-TF180-7DA-730T840	1xL-TUBE-TF1 42 W	6271	48	130	840	1486 64 94	0260131
VLG-TF228-7DA-660T840	1xL-TUBE-TF2 36 W	5669	42	134	840	1186 68 94	0260173
VLG-TF235-7DA-780T840	1xL-TUBE-TF2 44 W	6700	50	134	840	1486 68 94	0260167
VLG-TF249-7DA-980T840	1xL-TUBE-TF2 54 W	8418	62	135	840	1486 68 94	0260161
VLG-TF254-7DA-1020T840	1xL-TUBE-TF2 60 W	8762	68	128	840	1186 68 94	0260179

## VLG-TF ...E... with lamp L-TUBE-TF, extreme narrow beam light distribution

**Design:** Profiled LED gear tray in galvanised white coated steel. RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. L-TUBE-TF included. No thermal coupling between the LED modules and converters. Service life L80B50 at 50.000h. Linear optics in transparent UV-stabilised PMMA integrated in the aluminium profiles for extreme narrow-beam light distribution. End caps in durable PC to match the colour of the cover. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Fixture system:** Lamp held by an adapter unit, can be swivelled from 0°-45° in 15° steps without the use of tools. Lamp can be exchanged by means of an adapter unit.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

### Additional designs:

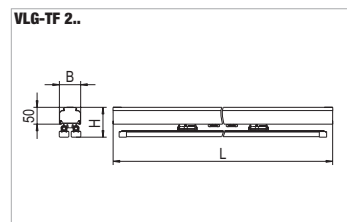
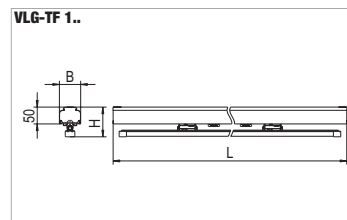
**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit).

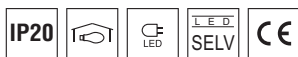
100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



### Non-standard versions:

- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Emergency light

Extreme narrow beam (E)



acc. to DIN EN 60598/VDE 0711



### VLG-TF ... -5

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux (lm)	Luminaire output [W]	Luminaire efficiency (lm/W)	Luminous colour	Dimens. (mm) L B H	el. conv. Prod. code
VLG-TF128-5ND-330E840	1xL-TUBE-TF1 18 W	2848	21	135	840	1186 64 96	0250147
VLG-TF135-5ND-390E840	1xL-TUBE-TF1 22 W	3366	25	134	840	1486 64 96	0250135
VLG-TF149-5ND-490E840	1xL-TUBE-TF1 27 W	4229	31	136	840	1486 64 96	0250141
VLG-TF154-5ND-510E840	1xL-TUBE-TF1 30 W	4401	34	129	840	1186 64 96	0250153
VLG-TF180-5ND-730E840	1xL-TUBE-TF1 42 W	6300	48	131	840	1486 64 96	0250129
VLG-TF228-5ND-660E840	1xL-TUBE-TF2 36 W	5696	42	135	840	1186 64 96	0250171
VLG-TF235-5ND-780E840	1xL-TUBE-TF2 44 W	6731	50	134	840	1486 64 96	0250165
VLG-TF249-5ND-980E840	1xL-TUBE-TF2 54 W	8457	62	136	840	1486 64 96	0250159
VLG-TF254-5ND-1020E840	1xL-TUBE-TF2 60 W	8803	68	129	840	1186 64 96	0250177

### VLG-TF ... -7

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux (lm)	Luminaire output [W]	Luminaire efficiency (lm/W)	Luminous colour	Dimens. (mm) L B H	dim. conv. DALI Prod. code
VLG-TF128-7DA-330E840	1xL-TUBE-TF1 18 W	2848	21	135	840	1186 64 96	0260147
VLG-TF135-7DA-390E840	1xL-TUBE-TF1 22 W	3366	25	134	840	1486 64 96	0260135
VLG-TF149-7DA-490E840	1xL-TUBE-TF1 27 W	4229	31	136	840	1486 64 96	0260141
VLG-TF154-7DA-510E840	1xL-TUBE-TF1 30 W	4401	34	129	840	1186 64 96	0260153
VLG-TF180-7DA-730E840	1xL-TUBE-TF1 42 W	6300	48	131	840	1486 64 96	0260129
VLG-TF228-7DA-660E840	1xL-TUBE-TF2 36 W	5696	42	135	840	1186 64 96	0260171
VLG-TF235-7DA-780E840	1xL-TUBE-TF2 44 W	6731	50	134	840	1486 64 96	0260165
VLG-TF249-7DA-980E840	1xL-TUBE-TF2 54 W	8457	62	136	840	1486 64 96	0260159
VLG-TF254-7DA-1020E840	1xL-TUBE-TF2 60 W	8803	68	129	840	1186 64 96	0260177

## VLG-TF ...B... with with lamp L-TUBE-TF, wide beam light distribution

**Design:** Profiled LED gear tray in galvanised white coated steel. RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. L-TUBE-TF included. No thermal coupling between the LED modules and converters. Service life L80B50 at 50.000h. Linear optics in transparent UV-stabilised PMMA integrated in the aluminium profiles for wide-beam light distribution. End caps in durable PC. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Fixture system:** Lamp held by an adapter unit, can be swivelled from 0°-45° in 15° steps without the use of tools. Lamp can be exchanged by means of an adapter unit.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

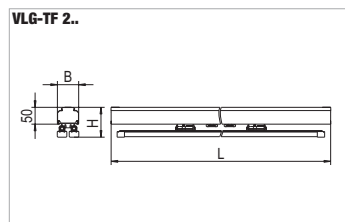
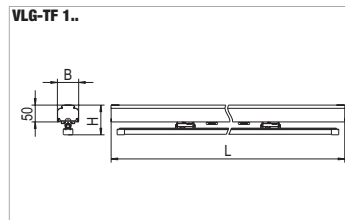
### Additional designs:

**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

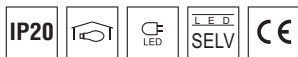
**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



### Non-standard versions:

- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Emergency light

Wide beam (B)



acc. to DIN EN 60598/VDE 0711



### VLG-TF ... -5

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm] L B H	el. conv. Prod. code
VLG-TF128-5ND-330B840	1xL-TUBE-TF1 18 W	3056	21	145	840	1186 64 96	0250145
VLG-TF135-5ND-390B840	1xL-TUBE-TF1 22 W	3611	25	144	840	1486 64 96	0250133
VLG-TF149-5ND-490B840	1xL-TUBE-TF1 27 W	4537	31	146	840	1486 64 96	0250139
VLG-TF154-5ND-510B840	1xL-TUBE-TF1 30 W	4723	34	138	840	1186 64 96	0250151
VLG-TF180-5ND-730B840	1xL-TUBE-TF1 42 W	6760	48	140	840	1486 64 96	0250126
VLG-TF228-5ND-660B840	1xL-TUBE-TF2 36 W	6112	42	145	840	1186 64 96	0250169
VLG-TF235-5ND-780B840	1xL-TUBE-TF2 44 W	7223	50	144	840	1486 64 96	0250163
VLG-TF249-5ND-980B840	1xL-TUBE-TF2 54 W	9075	62	146	840	1486 64 96	0250157
VLG-TF254-5ND-1020B840	1xL-TUBE-TF2 60 W	9445	68	138	840	1186 64 96	0250175



### VLG-TF ... -7

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm] L B H	dim. conv. DALI Prod. code
VLG-TF128-7DA-330B840	1xL-TUBE-TF1 18 W	3056	21	145	840	1186 64 96	0260145
VLG-TF135-7DA-390B840	1xL-TUBE-TF1 22 W	3611	25	144	840	1486 64 96	0260133
VLG-TF149-7DA-490B840	1xL-TUBE-TF1 27 W	4537	31	146	840	1486 64 96	0260139
VLG-TF154-7DA-510B840	1xL-TUBE-TF1 30 W	4723	34	138	840	1186 64 96	0260151
VLG-TF180-7DA-730B840	1xL-TUBE-TF1 42 W	6760	48	140	840	1486 64 96	0260126
VLG-TF228-7DA-660B840	1xL-TUBE-TF2 36 W	6112	42	145	840	1186 64 96	0260169
VLG-TF235-7DA-780B840	1xL-TUBE-TF2 44 W	7223	50	144	840	1486 64 96	0260163
VLG-TF249-7DA-980B840	1xL-TUBE-TF2 54 W	9075	62	146	840	1486 64 96	0260157
VLG-TF254-7DA-1020B840	1xL-TUBE-TF2 60 W	9445	68	138	840	1186 64 96	0260175



**VLG-TF ...A... with lamp L-TUBE-TF, asymmetrical light distribution**

**Design:** Profiled LED gear tray in galvanised white coated steel. RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. L-TUBE-TF included. No thermal coupling between the LED modules and converters. Service life L80B50 at 50.000h. Linear optics in transparent UV-stabilised PMMA integrated in the aluminium profiles for asymmetrical beam light distribution. End caps in durable PC to match the colour of the cover. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Fixture system:** Lamp held by an adapter unit, can be swivelled from 0°-45° in 15° steps without the use of tools. Lamp can be exchanged by means of an adapter unit.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

**Additional designs:**

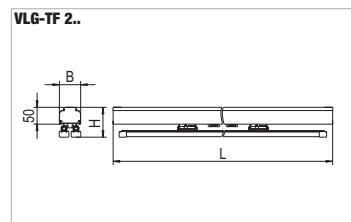
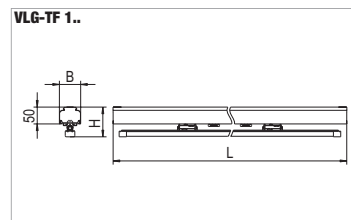
**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit).

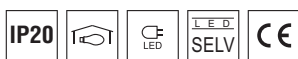
100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



**Non-standard versions:**

- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Emergency light

Asymmetrical (A)



acc. to DIN EN 60598/VDE 0711



**VLG-TF ... -5**

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm] L B H	el. conv. Prod. code
VLG-TF128-5ND-330A840	1xL-TUBE-TF1 18 W	2848	21	135	840	1186 64 96	0250144
VLG-TF135-5ND-390A840	1xL-TUBE-TF1 22 W	3366	25	134	840	1486 64 96	0250132
VLG-TF149-5ND-490A840	1xL-TUBE-TF1 27 W	4229	31	136	840	1486 64 96	0250138
VLG-TF154-5ND-510A840	1xL-TUBE-TF1 30 W	4401	34	129	840	1186 64 96	0250150
VLG-TF180-5ND-730A840	1xL-TUBE-TF1 42 W	6300	48	131	840	1486 64 96	0250127
VLG-TF228-5ND-660A840	1xL-TUBE-TF2 36 W	5351	42	127	840	1186 64 96	0250168
VLG-TF235-5ND-780A840	1xL-TUBE-TF2 44 W	6731	50	134	840	1486 64 96	0250162
VLG-TF249-5ND-980A840	1xL-TUBE-TF2 54 W	8457	62	136	840	1486 64 96	0250156
VLG-TF254-5ND-1020A840	1xL-TUBE-TF2 60 W	8803	68	129	840	1186 64 96	0250174

**VLG-TF ... -7**

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm] L B H	dim. conv. DALI Prod. code
VLG-TF128-7DA-330A840	1xL-TUBE-TF1 18 W	2848	21	135	840	1186 64 96	0260144
VLG-TF135-7DA-390A840	1xL-TUBE-TF1 22 W	3366	25	134	840	1486 64 96	0260132
VLG-TF149-7DA-490A840	1xL-TUBE-TF1 27 W	4229	31	136	840	1486 64 96	0260138
VLG-TF154-7DA-510A840	1xL-TUBE-TF1 30 W	4401	34	129	840	1186 64 96	0260150
VLG-TF180-7DA-730A840	1xL-TUBE-TF1 42 W	6300	48	131	840	1486 64 96	0260127
VLG-TF228-7DA-660A840	1xL-TUBE-TF2 36 W	5351	42	127	840	1186 64 96	0260168
VLG-TF235-7DA-780A840	1xL-TUBE-TF2 44 W	6731	50	134	840	1486 64 96	0260162
VLG-TF249-7DA-980A840	1xL-TUBE-TF2 54 W	8457	62	136	840	1486 64 96	0260156
VLG-TF254-7DA-1020A840	1xL-TUBE-TF2 60 W	8803	68	129	840	1186 64 96	0260174



# Gear tray VLG-TF ...D...

## VLG-TF ...D... with lamp L-TUBE-TF, double asymmetrical light distribution

**Design:** Profiled LED gear tray in galvanised white coated steel. RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. L-TUBE-TF included. No thermal coupling between the LED modules and converters. Service life L80B50 at 50.000h. Linear optics in transparent UV-stabilised PMMA integrated in the aluminium profiles for double asymmetrical beam light distribution. End caps in durable PC to match the colour of the cover. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Fixture system:** Lamp held by an adapter unit, can be swivelled from 0°-45° in 15° steps without the use of tools. Lamp can be exchanged by means of an adapter unit.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

### Additional designs:

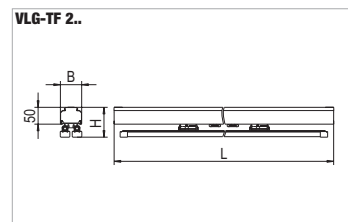
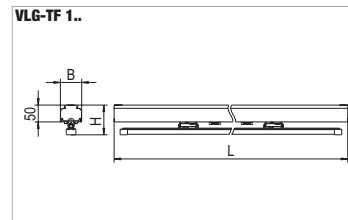
**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit).

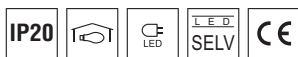
100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



### Non-standard versions:

- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Alternative double asymmetrical optics
- Emergency light

Double asymmetrical (D)



acc. to DIN EN 60598/VDE 0711



### VLG-TF ... -5

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm] L B H	el. conv. Prod. code
VLG-TF128-5ND-330D840	1xL-TUBE-TF1 18 W	2973	21	141	840	1186 64 96	0250146
VLG-TF135-5ND-390D840	1xL-TUBE-TF1 22 W	3514	25	140	840	1486 64 96	0250134
VLG-TF149-5ND-490D840	1xL-TUBE-TF1 27 W	4415	31	142	840	1486 64 96	0250140
VLG-TF154-5ND-510D840	1xL-TUBE-TF1 30 W	4595	34	135	840	1186 64 96	0250152
VLG-TF180-5ND-730D840	1xL-TUBE-TF1 42 W	6577	48	137	840	1486 64 96	0250128
VLG-TF228-5ND-660D840	1xL-TUBE-TF2 36 W	5947	42	141	840	1186 64 96	0250170
VLG-TF235-5ND-780D840	1xL-TUBE-TF2 44 W	7028	50	140	840	1486 64 96	0250164
VLG-TF249-5ND-980D840	1xL-TUBE-TF2 54 W	8830	62	142	840	1486 64 96	0250158
VLG-TF254-5ND-1020D840	1xL-TUBE-TF2 60 W	9190	68	135	840	1186 64 96	0250176

### VLG-TF ... -7

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm] L B H	dim. conv. DALI Prod. code
VLG-TF128-7DA-330D840	1xL-TUBE-TF1 18 W	2973	21	141	840	1186 64 96	0260146
VLG-TF135-7DA-390D840	1xL-TUBE-TF1 22 W	3514	25	140	840	1486 64 96	0260134
VLG-TF149-7DA-490D840	1xL-TUBE-TF1 27 W	4415	31	142	840	1486 64 96	0260140
VLG-TF154-7DA-510D840	1xL-TUBE-TF1 30 W	4595	34	135	840	1186 64 96	0260152
VLG-TF180-7DA-730D840	1xL-TUBE-TF1 42 W	6577	48	137	840	1486 64 96	0260128
VLG-TF228-7DA-660D840	1xL-TUBE-TF2 36 W	5947	42	141	840	1186 64 96	0260170
VLG-TF235-7DA-780D840	1xL-TUBE-TF2 44 W	7028	50	140	840	1486 64 96	0260164
VLG-TF249-7DA-980D840	1xL-TUBE-TF2 54 W	8830	62	142	840	1486 64 96	0260158
VLG-TF254-7DA-1020D840	1xL-TUBE-TF2 60 W	9190	68	135	840	1186 64 96	0260176

**VLG-TF ...0... with lamp L-TUBE-TF, diffuse light distribution**

**Design:** Profiled LED gear tray in galvanised white coated steel. RIDI LED linear modules fitted with mid-power LEDs for outstanding efficiency. Operating in conformity with SELV, the boards are pressed over their entire surface onto the aluminium profile for optimum heat dissipation. Soldered joints of the LED modules are tested for cavities and resistance to vibration and torsion in compliance with the most stringent quality standards. L-TUBE-TF included. No thermal coupling between the LED modules and converters. Service life L80B50 at 50.000h. Linear optics in opal coloured UV-stabilised PMMA integrated in the aluminium profiles for diffuse light distribution. End caps in durable PC to match the colour of the cover. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking with automatic PE conductor connection. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Fixture system:** Lamp held by an adapter unit, can be swivelled from 0°-45° in 15° steps without the use of tools. Lamp can be exchanged by means of an adapter unit.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

**Additional designs:**

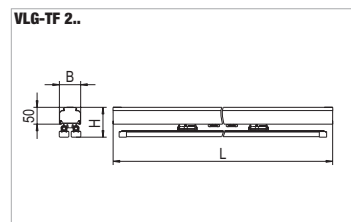
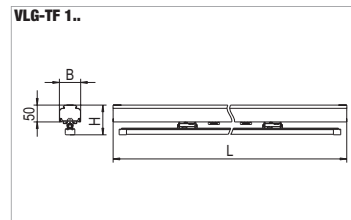
**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit).

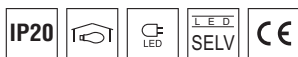
100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



**Non-standard versions:**

- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Emergency light

Diffuse (0)



acc. to DIN EN 60598/VDE 0711



**VLG-TF ... -5**

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code
						L	B	H	
VLG-TF128-5ND-3300840	1xL-TUBE-TF1 18 W	2567	21	122	840	1186	64	96	0250148
VLG-TF135-5ND-3900840	1xL-TUBE-TF1 22 W	3034	25	121	840	1486	64	96	0250136
VLG-TF149-5ND-4900840	1xL-TUBE-TF1 27 W	3812	31	122	840	1486	64	96	0250142
VLG-TF154-5ND-5100840	1xL-TUBE-TF1 30 W	3968	34	116	840	1186	64	96	0250154
VLG-TF180-5ND-7300840	1xL-TUBE-TF1 42 W	5679	48	118	840	1486	64	96	0250130
VLG-TF228-5ND-6600840	1xL-TUBE-TF2 36 W	4824	42	114	840	1186	64	96	0250172
VLG-TF235-5ND-7800840	1xL-TUBE-TF2 44 W	6068	50	121	840	1486	64	96	0250166
VLG-TF249-5ND-9800840	1xL-TUBE-TF2 54 W	7624	62	122	840	1486	64	96	0250160
VLG-TF254-5ND-10200840	1xL-TUBE-TF2 60 W	7936	68	116	840	1186	64	96	0250178



**VLG-TF ... -7**

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. Lengths equivalent to T16.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			dim. conv. DALI Prod. code
						L	B	H	
VLG-TF128-7DA-3300840	1xL-TUBE-TF1 18 W	2567	21	122	840	1186	64	96	0260148
VLG-TF135-7DA-3900840	1xL-TUBE-TF1 22 W	3034	25	121	840	1486	64	96	0260136
VLG-TF149-7DA-4900840	1xL-TUBE-TF1 27 W	3812	31	122	840	1486	64	96	0260142
VLG-TF154-7DA-5100840	1xL-TUBE-TF1 30 W	3968	34	116	840	1186	64	96	0260154
VLG-TF180-7DA-7300840	1xL-TUBE-TF1 42 W	5679	48	118	840	1486	64	96	0260130
VLG-TF228-7DA-6600840	1xL-TUBE-TF2 36 W	4824	42	114	840	1186	64	96	0260172
VLG-TF235-7DA-7800840	1xL-TUBE-TF2 44 W	6068	50	121	840	1486	64	96	0260166
VLG-TF249-7DA-9800840	1xL-TUBE-TF2 54 W	7624	62	122	840	1486	64	96	0260160
VLG-TF254-7DA-10200840	1xL-TUBE-TF2 60 W	7936	68	116	840	1186	64	96	0260178



# RIDI LINIA-R

## VLG-R with LED lamp RIDI TUBE

### Lengths

1186 mm	<i>Comparable with gear tray for:</i> T16 28 W / 54 W
1237 mm	
1486 mm	T26 36 W
1537 mm	T16 35 W / 49 W / 80 W
1537 mm	T26 58 W

The design is equivalent to the existing T16 gear trays, permitting an extensive range of light controls, reflectors and louvres.

The RIDI TUBES can be selected with a clear, satinised or opal cover and can also be used exposed. The innovative lamp base system allows the RIDI TUBE to be exchanged just as simply as conventional T16 lamps.

RIDI TUBES are **not** included in the scope of delivery.



## VLM module inserts



For requirements such as emergency lighting, fixture of spots in the lighting track or also for sockets, there are module inserts available.

The RIDI spots PABLO and KARO are also available as modules, alongside sensor modules for movement and daylight-dependent operation of the continuous lighting system.



# Gear tray VLG-R ...

## VLG-R ... for lamp RIDI-TUBE

**Design:** Profiled LED gear tray in galvanised white coated steel. For RIDI-TUBE lamp (order separately). Plastic-coated quick-release catch for fixture in the trunking and for fastening the optical controls. In conjunction with trunking VLT for the configuration of modular variable continuous lighting systems conforms to protection rating IP20. The gear trays can be mounted at any preferred location on the trunking. Electrical adapters for flexible take-off of the through wiring in the trunking. Phase selection by means of sliding contact. Colour and optical coding for simple installation. Mechanical coding to prevent incorrect installation (polarity reversal). Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

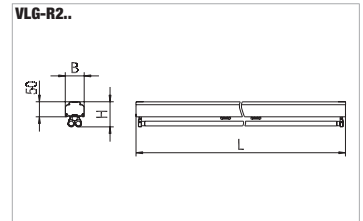
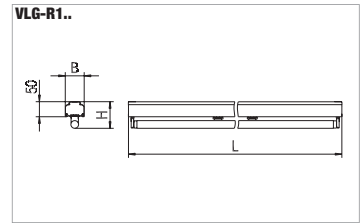
**Additional designs:**

**DALI:** Dimmable DALI ballast

**EDS3:** Gear tray with emergency lighting element, automatic self-test and maintenance-free battery for three hours of continuous operation. Emergency lighting mode LEDs produce approximately 450 lm of luminous flux.

**Z:** Emergency lighting gear tray for central 230 V AC/DC substitute power supply (stand-by circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).

**UR:** Emergency lighting gear tray with changeover relay for central 230 V AC/DC substitute power supply (continuous circuit). 100% luminaire luminous flux for switchable models, 15% luminaire luminous flux for DALI models (programmable on request).



**Non-standard versions:**

- Emergency light



acc. to DIN EN 60598/VDE 0711



**VLG-R ... -5**

LED gear tray with blue colour coding for mounting in VLT-5, VLT-7 or VLT-11. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]			el. conv. xx=ND Prod. code
			L	B	H	
VLG-R1X115/30-5ND	1xR-TUBE 30 W	E, F	1186	64	82	1550000
VLG-R1X145/35-5ND	1xR-TUBE 35 W	H, I	1486	64	82	1550001
VLG-R2X115/30-5ND	2xR-TUBE 30 W	E, F	1186	64	82	1550002
VLG-R2X145/35-5ND	2xR-TUBE 35 W	H, I	1486	64	82	1550003



**VLG-R ... -7**

LED gear tray with purple colour coding for mounting in VLT-7 or VLT-11. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]			dim. conv. DALI xx=DA Prod. code
			L	B	H	
VLG-R1X115/30-7DA	1xR-TUBE 30 W	E, F	1186	64	82	1560000
VLG-R1X145/35-7DA	1xR-TUBE 35 W	H, I	1486	64	82	1560001
VLG-R2X115/30-7DA	2xR-TUBE 30 W	E, F	1186	64	82	1560002
VLG-R2X145/35-7DA	2xR-TUBE 35 W	H, I	1486	64	82	1560003

## Reflector VLR-T16 ...

Reflectors for mounting on continuous lighting system LINIA-R and batten VLF-T16-R.

For use in conjunction with

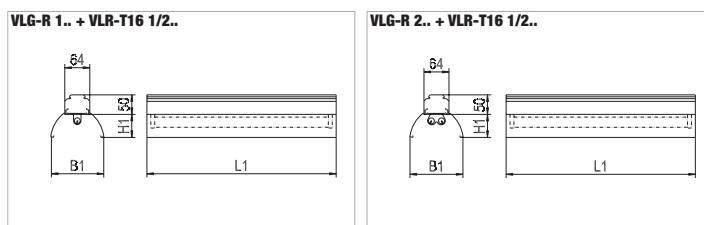
- Batten series VLF-T16-R

or

- Trunking VLT-T16
- Gear tray VLG-R

**Note:** Mirror reflectors and louvres can be inserted in reflectors VLR-T16.

1 reflector is required per continuous lighting unit



### VLR-T16

Profiled reflector made of galvanized white synthetic resin coated steel. Good reflection properties and narrow-wide beam distribution. Includes reflector connector.

Model	Dimens. [mm]			Prod. code
	L1	B1	H1	
VLR-T16 1/254	1185	136	62	0207710
VLR-T16 1/280	1485	136	62	0207711

## Steel louvre VLWR-T16

Steel louvre for insertion in reflector VLR-T16.

For use in conjunction with

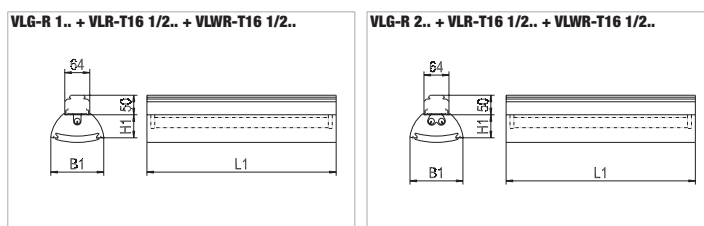
- Batten series VLF-T16-R

or

- Trunking VLT-T16
- Gear tray VLG-R
- Reflector VLR-T16

1 louvre VLWR-T16 is required per continuous lighting system gear tray.

**Note:** If installed in schools, nursery schools, changing rooms etc. always include spring VLWRS-T16-0204000 when ordering.



### VLWR-T16

Cross-blade steel louvre, white powder coated.

Model	Dimens. [mm]			Prod. code
	L1	B1	H1	
VLWR-T16 1/254	1185	136	62	0208188
VLWR-T16 1/280	1485	136	62	0208189

## Parabolic mirror louvre VLSRM-T16

Parabolic mirror louvre for insertion in reflector VLR-T16.

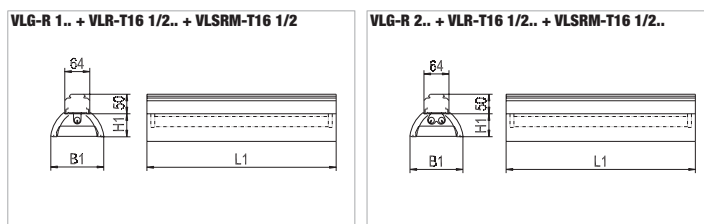
Can be used in conjunction with

- Batten series VLF-T16-R

or

- Trunking VLT-T16
- Gear tray VLG-R,
- Reflector VLR-T16

1 louvre is required per continuous lighting system gear tray.



### VLSRM-T16

Parabolic mirror louvre made of high-reflectance, super-purity matt anodised aluminium with silver coating.

Model	Dimens. [mm]			Prod. code
	L1	B1	H1	
VLSRM-T16 1/254	1185	136	62	0207112
VLSRM-T16 1/280	1485	136	62	0207113

## VLM-LED-NL

**Design:** Emergency lighting module insert LED for mounting in trunking VLT Supplementary module VLM..., profiled, in galvanized white or silver (-SI) coated steel. Plastic coated quick-release catches for mounting on trunking and for fixing the optical controllers. Optical controllers can be supplied if required on request. VLM... modules can be positioned variably between the gear trays VGL... . Electrical adapters for flexible take-off of the through-wiring in the trunking. Phase selection by means of sliding contact. Coloured and optical coding for simple mounting. Mechanical coding prevents inadvertent polarity reversal. Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

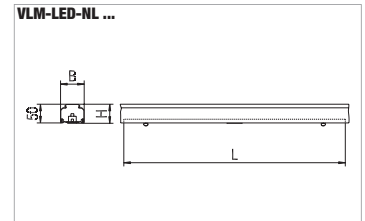
**Electrical versions:**

- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

**Note:** Supplementary modules VLM... generally comply with protection rating IP 20. The emergency lighting versions can be used in systems complying to VDE 0108

**EB3:** gear tray with emergency lighting element and maintenance-free NiMH battery for standby mode, 3 hours.

**Z:** Gear tray for central emergency power supply (AC or DC) in non-maintained mode.



### VLM-LED-NL 600-7 ...-M

Emergency lighting gear tray with LED, 3 Watts, 110 lumen. Colour coding purple for mounting in VLT-7.

Model	Lamps	Dimens. [mm]			Prod. code
		L	B	H	
VLM-LED-NL 600-7 EB3-M	1XLED 3 W	600	64	50	1520183//400
VLM-LED-NL 600-7 SI-EB3-M	1XLED 3 W	600	64	50	1520183SI400
VLM-LED-NL 600-7 SI-Z-M	1XLED 3 W	600	64	50	1520183SI329
VLM-LED-NL 600-7 Z-M	1XLED 3 W	600	64	50	1520183//329



### VLM-LED-NL 600-11 ...-M

Emergency lighting gear tray with LED, 3 Watts, 110 lumen. Colour coding green for mounting in VLT-11. Sliding contact for selection of 2 separate emergency lighting circuits.

Model	Lamps	Dimens. [mm]			Prod. code
		L	B	H	
VLM-LED-NL 600-11 EB3-M	1XLED 3 W	600	64	50	1520183//401
VLM-LED-NL 600-11 SI-EB3-M	1XLED 3 W	600	64	50	1520183SI401
VLM-LED-NL 600-11 SI-Z-M	1XLED 3 W	600	64	50	1520183SI367
VLM-LED-NL 600-11 Z-M	1XLED 3 W	600	64	50	1520183//367



VLM-LED-HW

**Design:** Escape route sign module insert LED for mounting in trunking VLT. Supplementary module VLM..., profiled, in galvanized white or silver (SI) coated steel. Plastic coated quick-release catches for mounting on trunking and for fixing the optical controllers. Optical controllers can be supplied if required on request. VLM... modules can be positioned variably between the gear trays VGL... . Electrical adapters for flexible take-off of the through-wiring in the trunking. Phase selection by means of sliding contact. Coloured and optical coding for simple mounting. Mechanical coding prevents inadvertent polarity reversal. Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

**Electrical versions:**

- **EI. conv.:** Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

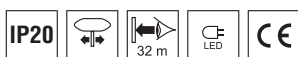
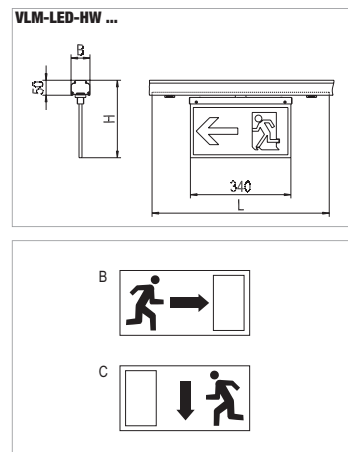
**Note:** Supplementary modules VLM... generally comply with protection rating IP 20. The emergency lighting versions can be used in systems complying to VDE 0108

**Additional designs:**

**EDS3:** Gear tray with emergency lighting element and maintenance-free NiCd battery for maintained mode 3 hours, with self-test.

**Z:** Gear tray for central emergency power supply (AC or DC) in non-maintained mode.

**Z-UR:** Gear tray with switchover relay for central emergency power supply in maintained mode



acc. to DIN EN 60598/VDE 0711



**VLM-LED-HW ... -7**

Emergency lighting gear tray with escape route sign type B or C, recognition distance 32 m. Rotational escape route sign for fixing at 0°, 45° and 90° as required. Colour coding purple for mounting in VLT-7. Escape route sign is illuminated from the edge by means of LEDs and made of UV-stabilized PMMA. Types ED1 and ED3 are available on request with self-test / self test and monitoring functionality.

Model	Lamps	Dimens. [mm]			Prod. code
		L	B	H	
VLM-LED-HW-B 600-7 EDS3	1XLED-M 3,6 W	600	64	262	1520096//377
VLM-LED-HW-B 600-7 SI-EDS3	1XLED-M 3,6 W	600	64	262	1520096SI377
VLM-LED-HW-B 600-7 SI-Z	1XLED-M 3,6 W	600	64	262	1520096SI329
VLM-LED-HW-B 600-7 SI-Z-UR	1XLED-M 3,6 W	600	64	262	1520096SI373
VLM-LED-HW-B 600-7 Z	1XLED-M 3,6 W	600	64	262	1520096//329
VLM-LED-HW-B 600-7 Z-UR	1XLED-M 3,6 W	600	64	262	1520096//373
VLM-LED-HW-C 600-7 EDS3	1XLED-M 3,6 W	600	64	262	1520097//377
VLM-LED-HW-C 600-7 SI-EDS3	1XLED-M 3,6 W	600	64	262	1520097SI377
VLM-LED-HW-C 600-7 SI-Z	1XLED-M 3,6 W	600	64	262	1520097SI329
VLM-LED-HW-C 600-7 SI-Z-UR	1XLED-M 3,6 W	600	64	262	1520097SI373
VLM-LED-HW-C 600-7 Z	1XLED-M 3,6 W	600	64	262	1520097//329
VLM-LED-HW-C 600-7 Z-UR	1XLED-M 3,6 W	600	64	262	1520097//373



**VLM-LED-HW ... -11**

Emergency lighting gear tray with escape route sign type B or C, recognition distance 32 m. Rotational escape route sign for fixing at 0°, 45° and 90° as required. Colour coding green for mounting in VLT-11. Sliding contacts for selection of 2 separate emergency lighting circuits.

Escape route sign is illuminated from the edge by means of LEDs and made of UV-stabilized PMMA. Types ED1 and ED3 are available on request with self-test / self test and monitoring functionality.

Model	Lamps	Dimens. [mm]			Prod. code
		L	B	H	
VLM-LED-HW-B 600-11 EDS3	1XLED-M 3,6 W	600	64	262	1520096//381
VLM-LED-HW-B 600-11 SI-EDS3	1XLED-M 3,6 W	600	64	262	1520096SI381
VLM-LED-HW-B 600-11 SI-Z	1XLED-M 3,6 W	600	64	262	1520096SI367
VLM-LED-HW-B 600-11 SI-Z-UR	1XLED-M 3,6 W	600	64	262	1520096SI366
VLM-LED-HW-B 600-11 Z	1XLED-M 3,6 W	600	64	262	1520096//367
VLM-LED-HW-B 600-11 Z-UR	1XLED-M 3,6 W	600	64	262	1520096//366
VLM-LED-HW-C 600-11 EDS3	1XLED-M 3,6 W	600	64	262	1520097//381
VLM-LED-HW-C 600-11 SI-EDS3	1XLED-M 3,6 W	600	64	262	1520097SI381
VLM-LED-HW-C 600-11 SI-Z	1XLED-M 3,6 W	600	64	262	1520097SI367
VLM-LED-HW-C 600-11 SI-Z-UR	1XLED-M 3,6 W	600	64	262	1520097SI366
VLM-LED-HW-C 600-11 Z	1XLED-M 3,6 W	600	64	262	1520097//367
VLM-LED-HW-C 600-11 Z-UR	1XLED-M 3,6 W	600	64	262	1520097//366

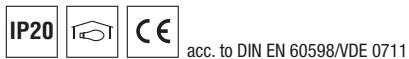
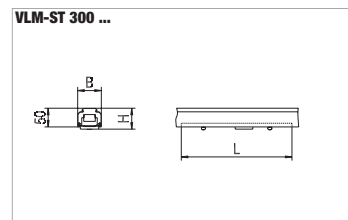


## VLM... modules

### VLM-ST

**Design:** Socket module insert for mounting in trunking VLT. Supplementary module VLM..., profiled, in galvanized white, silver (-SI) or black (-SW) coated steel. Plastic coated quick-release catches for mounting on trunking and for fixing the optical controllers. Optical controllers can be supplied if required on request. VLM... modules can be positioned variably between the gear trays VGL... Electrical adapters for flexible take-off of the through-wiring in the trunking. Phase selection by means of sliding contact. Coloured and optical coding for simple mounting. Mechanical coding prevents inadvertent polarity reversal. Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

**Note:** Supplementary modules VLM... generally comply with protection rating IP 20. The emergency lighting versions can be used in systems complying to VDE 0108



#### VLM-ST 300-5

Gear tray with prefitted earthed socket for connecting external appliances. Maximum load 16 A. Colour coding blue for mounting in VLT-5, VLT-7 or VLT-11.

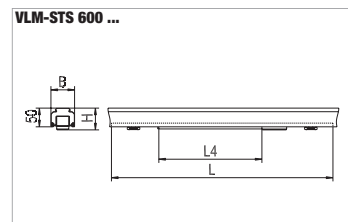
Model	Dimens. [mm]			Prod. code
	L	B	H	
VLM-ST 300-5	300	64	57	1500059
VLM-ST 300-5 SI	300	64	57	1500059SI
VLM-ST 300-5 SW	300	64	57	1500059SW



**VLM-ST5**

**Design:** Lighting track module insert for mounting in trunking VLT. Supplementary module VLM..., profiled, in galvanized white, silver (-SI) or black (-SW) coated steel. Plastic coated quick-release catches for mounting on trunking. VLM... modules can be positioned variably between the gear trays VLG...  
 Electrical adapters for flexible take-off of the through-wiring in the trunking. Coloured and optical coding for simple mounting. Mechanical coding prevents inadvertent polarity reversal. Where gear trays VLG... are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

**Note:** Supplementary modules VLM... generally comply with protection rating IP 20. The emergency lighting versions can be used in systems complying to VDE 0108



**VLM-ST5 080-7**

Universal lighting track, 5 conductor system (L1, L2, L3, N, SL plus two control lines for DALI). Gear tray with three-phase lighting tracks + DALI to mount spotlights with three-phase adaptor. Purple colour coding for mounting in VLT-7 or VLT-11. All three phases are connected. Phase selected on the spotlight adaptor. Load up to 3 x 16 A + 2 x 10 A. Gear tray length 1486 mm, usable lighting track length 570 mm.

Model	Dimens. [mm]			Prod. code
	L	B	H	
VLM-ST5 080-7	1486	64	59	1500087
VLM-ST5 080-7 SI	1486	64	59	1500087SI
VLM-ST5 080-7 SW	1486	64	59	1500087SW

**VLM-ST5 058-7**

Universal lighting track, 5 conductor system (L1, L2, L3, N, SL plus two control lines for DALI). Gear tray with three-phase lighting tracks + DALI to mount spotlights with three-phase adaptor. Purple colour coding for mounting in VLT-7 or VLT-11. All three phases are connected. Phase selected on the spotlight adaptor. Load up to 3 x 16 A + 2 x 10 A. Gear tray length 1537 mm, usable lighting track length 620 mm.

Model	Dimens. [mm]			Prod. code
	L	B	H	
VLM-ST5 058-7	1537	64	59	1500103
VLM-ST5 058-7 SI	1537	64	59	1500103SI
VLM-ST5 058-7 SW	1537	64	59	1500103SW

**VLM-ST5 054-7**

Universal lighting track, 5 conductor system (L1, L2, L3, N, SL plus two control lines for DALI). Gear tray with three-phase lighting tracks + DALI to mount spotlights with three-phase adaptor. Purple colour coding for mounting in VLT-7 or VLT-11. All three phases are connected. Phase selected on the spotlight adaptor. Load up to 3 x 16 A + 2 x 10 A. Gear tray length 1186 mm, usable lighting track length 270 mm.

Model	Dimens. [mm]			Prod. code
	L	B	H	
VLM-ST5 054-7	1186	64	59	1500102
VLM-ST5 054-7 SI	1186	64	59	1500102SI
VLM-ST5 054-7 SW	1186	64	59	1500102SW

**VLM-ST5 600-7**

Universal lighting track, 5 conductor system (L1, L2, L3, N, SL plus two control lines for DALI). Gear tray with three-phase lighting tracks + DALI to mount spotlights with three-phase adaptor. Purple colour coding for mounting in VLT-7 or VLT-11. All three phases are connected. Phase selected on the spotlight adaptor. Load up to 3 x 16 A + 2 x 10 A. Gear tray length 600 mm, usable lighting track length 170 mm.

Model	Dimens. [mm]			Prod. code
	L	B	H	
VLM-ST5 600-7	600	64	59	1500088
VLM-ST5 600-7 SI	600	64	59	1500088SI
VLM-ST5 600-7 SW	600	64	59	1500088SW

**VLM-ST5 036-7**

Universal lighting track, 5 conductor system (L1, L2, L3, N, SL plus two control lines for DALI). Gear tray with three-phase lighting tracks + DALI to mount spotlights with three-phase adaptor. Purple colour coding for mounting in VLT-7 or VLT-11. All three phases are connected. Phase selected on the spotlight adaptor. Load up to 3 x 16 A + 2 x 10 A. Gear tray length 1237 mm, usable lighting track length 320 mm.

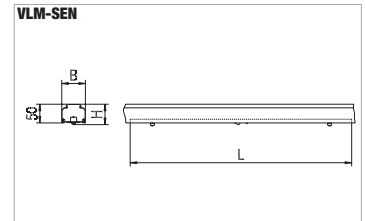
Model	Dimens. [mm]			Prod. code
	L	B	H	
VLM-ST5 036-7	1237	64	59	1500101
VLM-ST5 036-7 SI	1237	64	59	1500101SI
VLM-ST5 036-7 SW	1237	64	59	1500101SW



## VLM-SEN

**Design:** Sensor module insert for mounting in trunking VLT. Supplementary module VLM..., profiled, in galvanized white, silver (-SI) or black (-SW) coated steel. Plastic coated quick-release catches for mounting on trunking and for fixing the optical controllers. Optical controllers can be supplied if required on request. VLM... modules can be positioned variably between the gear trays VGL... Electrical adapters for flexible take-off of the through-wiring in the trunking. Phase selection by means of sliding contact. Coloured and optical coding for simple mounting. Mechanical coding prevents inadvertent polarity reversal. Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

**Note:** Supplementary modules VLM... generally comply with protection rating IP 20. The emergency lighting versions can be used in systems complying to VDE 0108



IP20 acc. to DIN EN 60598/VDE 0711



### VLM-SEN 600 ... AL

Gear tray with sensor Philips Actilume (movement and light sensor). Master-slave combination in conjunction with gear trays with DALI-EVG. A sensor module VLM-SEN 600-7 AL can be fitted with a maximum of 9 DALI gear trays (slaves).

When forwarding the control signal from the sensor module over several trunking units, the control signal and pushbutton cable must be interrupted after no more than 9 DALI gear trays. With VLT-7, use a 5-core connector and with an external pushbutton connection, manually remove L3. With VLT-11, manually remove control cables 4 and 5 and pushbutton cables 7 and 9.

VLM-SEN-7 ... AL-T: colour coding purple for mounting in VLT-7 or VLT-11. With prefitted button for setting the light setpoint value.

VLM-SEN-7 ... AL-TL3: colour coding purple for mounting in VLT-7 or VLT-11. Pushbutton cable wired to L3. No three-phase wiring admissible. Division of gear trays over L1 and L2 possible. Ensure in-phase pushbutton line connection.

VLM-SEN-11 ... AL-TK2: colour coding green for mounting VLT-11. Pushbutton cable wired to separate contacts (supplementary circuit 2). When using VLT-11 1 emergency light circuit is additionally available. Ensure in-phase pushbutton line connection.

Model	Dimens. [mm]			Prod. code
	L	B	H	
VLM-SEN 600-11 DALI-AL-TK2	600	64	55	1500073
VLM-SEN 600-11 SI-DALI-AL-TK2	600	64	55	1500073SI
VLM-SEN 600-11 SW-DALI-AL-TK2	600	64	55	1500073SW
VLM-SEN 600-7 DALI-AL-T	600	64	55	1500070
VLM-SEN 600-7 DALI-AL-TL3	600	64	55	1500075
VLM-SEN 600-7 SI-DALI-AL-T	600	64	55	1500070SI
VLM-SEN 600-7 SI-DALI-AL-TL3	600	64	55	1500075SI
VLM-SEN 600-7 SW-DALI-AL-T	600	64	55	1500070SW

**VLM-SEN 600 ... ECO**

Gear tray with Osram DALI-ECO sensor (motion and light sensor).

Master-slave combination in conjunction with DALI-EVG gear tray. A VLM-SEN 600... DALI-ECO sensor module can be complemented with a maximum of 32 DALI gear trays (slave). If the control signal is forwarded from a sensor module through multiple mounting bars, after a maximum of 32 DALI gear trays the control signal must be interrupted. To accomplish this, for the VLT-7 use a 5-core connector and for the VLT-11 manually remove control lines 4 and 5.

VLM-SEN-7 ...: Colour coding purple for installation in VLT-7 or VLT-11.

VLM-SEN-11 ...: Colour coding green for installation in VLT-11. Button cables wired on separate contacts (auxiliary circuit 2). When using VLT-11, 1 emergency lighting circuit is still available.

Model	Dimens. [mm]			Prod. code
	L	B	H	
VLM-SEN 600-11 DALI-ECO	600	64	55	1500079
VLM-SEN 600-11 SW-DALI-ECO	600	64	55	1500079SW
VLM-SEN 600-7 DALI-ECO	600	64	55	1500078
VLM-SEN 600-7 SW-DALI-ECO	600	64	55	1500078SW

VLM-KARO

**Design:** Spotlight module insert KARO for mounting in trunking VLT. Supplementary module VLM..., profiled, in galvanized white (...WS-...), silver (...SI-...) or black (...SW-...) coated steel. Spring steel clips for mounting on trunking and for fixing the optical controllers. Optical controllers can be supplied if required on request. VLM... modules can be positioned variably between the gear trays VGL... . Electrical adapters for flexible take-off of the through-wiring in the trunking. Phase selection by means of sliding contact. Coloured and optical coding for simple mounting. Mechanical coding prevents inadvertent polarity reversal. Spotlights rotate around the module and are wired to electrical adapters. Various lenses available for different applications, 46° flood (-F), 28° medium (-M), 11° spot (-S). Spotlight series in contemporary square design. Spot housing square with rounded corners. Spot head can be rotated by 360° and swivelled by 110°. RIDI LED module with high-power LEDs and efficient TIR optics, passive cooling via the spot head. Spot head, converter housing and retaining arm in die-cast aluminium. Surfaces structured and powder coated in white (similar RAL 9016), silver (similar to RAL 9006) or black (similar to RAL 9005). Trim surrounding the individual LEDs powder coated in black. The module length of non-dimmable types is 300 mm, the length of dimmable types is 600 mm. Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ...-600.

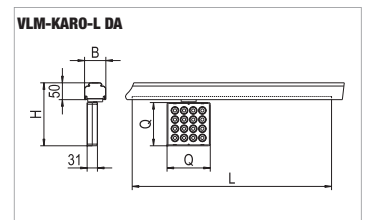
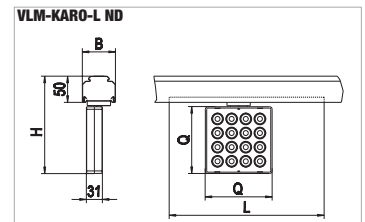
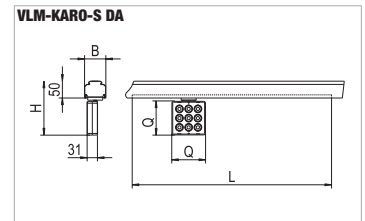
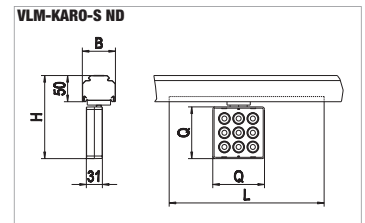
Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

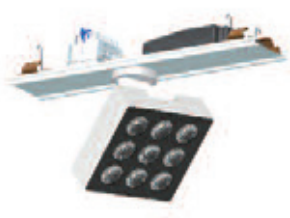
- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Mounting on VLT ... trunking by means of quick-release catches.

**Note:** Supplementary modules VLM... generally comply with protection rating IP 20. The emergency lighting versions can be used in systems complying to VDE 0108



**Nonstandard designs:**  
• Body in RAL colour of choice



**VLM-KARO-S**

Spotlight head dimensions 100 x 100 mm, thickness 31 mm. RIDI LED module with 9 high-power LEDs. Integrated cooling for maintenance-free passive cooling.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	Q		
VLM-KARO-S 2500-840 F	9xLED 2,7 W	1790	26	68	840	300	64	160	100	0321886//654	
VLM-KARO-S 2500-840 F	9xLED 2,7 W	1790	26	68	840	600	64	160	100		0331886//654
VLM-KARO-S 2500-840 F-SI	9xLED 2,7 W	1790	26	68	840	300	64	160	100	0321886SI654	
VLM-KARO-S 2500-840 F-SI	9xLED 2,7 W	1790	26	68	840	600	64	160	100		0331886SI654
VLM-KARO-S 2500-840 F-SW	9xLED 2,7 W	1790	26	68	840	300	64	175	100	0321886SW654	
VLM-KARO-S 2500-840 F-SW	9xLED 2,7 W	1790	26	68	840	600	64	175	100		0331886SW654
VLM-KARO-S 2500-840 M	9xLED 2,7 W	2120	26	81	840	300	64	160	100	0321885//654	
VLM-KARO-S 2500-840 M	9xLED 2,7 W	2120	26	81	840	600	64	160	100		0331885//654
VLM-KARO-S 2500-840 M-SI	9xLED 2,7 W	2120	26	81	840	300	64	160	100	0321885SI654	
VLM-KARO-S 2500-840 M-SI	9xLED 2,7 W	2120	26	81	840	600	64	160	100		0331885SI654
VLM-KARO-S 2500-840 M-SW	9xLED 2,7 W	2120	26	81	840	300	64	175	100	0321885SW654	
VLM-KARO-S 2500-840 M-SW	9xLED 2,7 W	2120	26	81	840	600	64	175	100		0331885SW654
VLM-KARO-S 2500-840 S	9xLED 2,7 W	2160	26	83	840	300	64	160	100	0321884//654	
VLM-KARO-S 2500-840 S	9xLED 2,7 W	2160	26	83	840	600	64	160	100		0331884//654
VLM-KARO-S 2500-840 S-SI	9xLED 2,7 W	2160	26	83	840	300	64	160	100	0321884SI654	
VLM-KARO-S 2500-840 S-SI	9xLED 2,7 W	2160	26	83	840	600	64	160	100		0331884SI654
VLM-KARO-S 2500-840 S-SW	9xLED 2,7 W	2160	26	83	840	300	64	175	100	0321884SW654	
VLM-KARO-S 2500-840 S-SW	9xLED 2,7 W	2160	26	83	840	600	64	175	100		0331884SW654



**VLM-KARO-L**

Spotlight head dimensions 130 x 130 mm, thickness 31 mm. RIDI LED module with 16 high-power LEDs. Integrated cooling for maintenance-free passive cooling.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	Q		
VLM-KARO-L 3500-840 F	16xLED 2,1 W	2786	37	75	840	300	64	190	130	0321889//654	
VLM-KARO-L 3500-840 F	16xLED 2,1 W	2786	37	75	840	600	64	190	130		0331889//654
VLM-KARO-L 3500-840 F-SI	16xLED 2,1 W	2786	37	75	840	300	64	190	130	0321889SI654	
VLM-KARO-L 3500-840 F-SI	16xLED 2,1 W	2786	37	75	840	600	64	190	130		0331889SI654
VLM-KARO-L 3500-840 F-SW	16xLED 2,1 W	2786	37	75	840	300	64	205	130	0321889SW654	
VLM-KARO-L 3500-840 F-SW	16xLED 2,1 W	2786	37	75	840	600	64	205	130		0331889SW654
VLM-KARO-L 3500-840 M	16xLED 2,1 W	3322	37	89	840	300	64	190	130	0321888//654	
VLM-KARO-L 3500-840 M	16xLED 2,1 W	3322	37	89	840	600	64	190	130		0331888//654
VLM-KARO-L 3500-840 M-SI	16xLED 2,1 W	3322	37	89	840	300	64	190	130	0321888SI654	
VLM-KARO-L 3500-840 M-SI	16xLED 2,1 W	3322	37	89	840	600	64	190	130		0331888SI654
VLM-KARO-L 3500-840 M-SW	16xLED 2,1 W	3322	37	89	840	300	64	205	130	0321888SW654	
VLM-KARO-L 3500-840 M-SW	16xLED 2,1 W	3322	37	89	840	600	64	205	130		0331888SW654
VLM-KARO-L 3500-840 S	16xLED 2,1 W	3357	37	90	840	300	64	190	130	0321887//654	
VLM-KARO-L 3500-840 S	16xLED 2,1 W	3357	37	90	840	600	64	190	130		0331887//654
VLM-KARO-L 3500-840 S-SI	16xLED 2,1 W	3357	37	90	840	300	64	190	130	0321887SI654	
VLM-KARO-L 3500-840 S-SI	16xLED 2,1 W	3357	37	90	840	600	64	190	130		0331887SI654
VLM-KARO-L 3500-840 S-SW	16xLED 2,1 W	3357	37	90	840	300	64	205	130	0321887SW654	
VLM-KARO-L 3500-840 S-SW	16xLED 2,1 W	3357	37	90	840	600	64	205	130		0331887SW654



VLM-PABLO

**Design:** Spotlight module insert PABLO for mounting in trunking VLT. Supplementary module VLM ... in galvanised white or silver (-SI) coated steel. Plastic coated quick-release catch for fixing in the trunking. The VLM ... modules can be positioned variably between the gear trays VLG... Electrical adapters for flexible take-off of the through-wiring in the trunking. Coloured and optical coding for simple mounting. Mechanical coding prevents inadvertent polarity reversal. Spotlights rotate around the module and are wired to electrical adapters. Different reflector types are available for different fields of application (flood, medium, spot). In the case of spotlights with GU6.5 base, the beam angles are 30° (-F) and 20° (-M). Spotlight module in which only the white or silver (SI) powder-coated reflector housing is visible. Sectional aluminium and steel reflector housing rotates and swivels around a high gloss nickel plated articulated joint. Can be rotated by 360° and swivelled by appr. 90°. Locating ring of the cover panel in die-cast aluminium. 1 and 2-lamp modules available. Where gear trays are variably positioned and where the electrical components come into contact with the trunking connector, mounting is only possible using trunking connector VLTV ... -600.

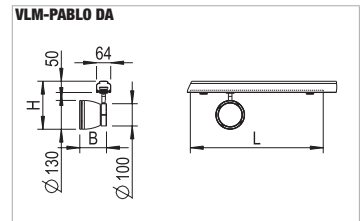
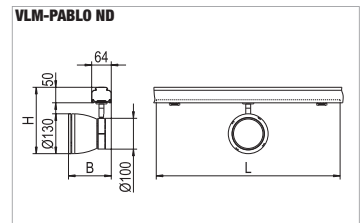
Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Mounting on VLT ... trunking by means of quick-release catches.

**Note:** Supplementary modules VLM... generally comply with protection rating IP 20. The emergency lighting versions can be used in systems complying to VDE 0108



**Nonstandard designs:**

- Body in RAL colour of choice
- Filters for use with food



**VLM-PABLO ... S**

Spotlight housing diameter 100 mm, locating ring diameter 130 mm. LED module chip-on-board with LED-specific holder. Passive cooling. Beam angle 10° spot (-S).

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
VLM-PABLO-L LED 2650-840 S	1xLED-M 18 W	1903	21	90	840	600	140	216	0321841//654	
VLM-PABLO-L LED 2650-840 S	1xLED-M 18 W	1903	21	90	840	600	140	216		0331841//654
VLM-PABLO-L LED 2650-840 S-SI	1xLED-M 18 W	1903	21	90	840	600	140	216	0321841SI654	
VLM-PABLO-L LED 2650-840 S-SI	1xLED-M 18 W	1903	21	90	840	600	140	216		0331841SI654
VLM-PABLO-L LED 3550-840 S	1xLED-M 25 W	2549	29	87	840	600	140	216	0321843//654	
VLM-PABLO-L LED 3550-840 S	1xLED-M 25 W	2549	29	87	840	600	140	216		0331843//654
VLM-PABLO-L LED 3550-840 S-SI	1xLED-M 25 W	2549	29	87	840	600	140	216	0321843SI654	
VLM-PABLO-L LED 3550-840 S-SI	1xLED-M 25 W	2549	29	87	840	600	140	216		0331843SI654



**VLM-PABLO ... M**

Spotlight housing diameter 100 mm, locating ring diameter 130 mm. LED module chip-on-board with LED-specific holder. Passive cooling. Beam angle 30° medium (-M).

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
VLM-PABLO-L LED 2650-840 M	1xLED-M 18 W	2205	21	105	840	600	140	216	0321856//654	
VLM-PABLO-L LED 2650-840 M	1xLED-M 18 W	2205	21	105	840	600	140	216		0331856//654
VLM-PABLO-L LED 2650-840 M-SI	1xLED-M 18 W	2205	21	105	840	600	140	216	0321856SI654	
VLM-PABLO-L LED 2650-840 M-SI	1xLED-M 18 W	2205	21	105	840	600	140	216		0331856SI654
VLM-PABLO-L LED 3550-840 M	1xLED-M 25 W	2954	29	101	840	600	140	216	0321857//654	
VLM-PABLO-L LED 3550-840 M	1xLED-M 25 W	2954	29	101	840	600	140	216		0331857//654
VLM-PABLO-L LED 3550-840 M-SI	1xLED-M 25 W	2954	29	101	840	600	140	216	0321857SI654	
VLM-PABLO-L LED 3550-840 M-SI	1xLED-M 25 W	2954	29	101	840	600	140	216		0331857SI654





**VLM-PABLO ... F**

Spotlight housing diameter 100 mm, locating ring diameter 130 mm. LED module chip-on-board with LED-specific holder. Passive cooling. Beam angle 65° flood (-F).

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. (mm)			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
VLM-PABLO-L LED 2650-840 F	1xLED-M 18 W	1770	21	84	840	600	140	216	0321842//654	
VLM-PABLO-L LED 2650-840 F	1xLED-M 18 W	1770	21	84	840	600	140	216		0331842//654
VLM-PABLO-L LED 2650-840 F-SI	1xLED-M 18 W	1770	21	84	840	600	140	216	0321842SI654	
VLM-PABLO-L LED 2650-840 F-SI	1xLED-M 18 W	1770	21	84	840	600	140	216		0331842SI654
VLM-PABLO-L LED 3550-840 F	1xLED-M 25 W	2371	29	81	840	600	140	216	0321844//654	
VLM-PABLO-L LED 3550-840 F	1xLED-M 25 W	2371	29	81	840	600	140	216		0331844//654
VLM-PABLO-L LED 3550-840 F-SI	1xLED-M 25 W	2371	29	81	840	600	140	216	0321844SI654	
VLM-PABLO-L LED 3550-840 F-SI	1xLED-M 25 W	2371	29	81	840	600	140	216		0331844SI654



# Light batten series VLDF-F

## VLDF-F ...

**Design:** Batten LED, single luminaire, for surface and pendant mounting. Narrow, torsionally rigid batten with steel gear tray coated in white (similar to RAL9016) or silver (SI, similar to RAL9006) synthetic resin. LED holder made of powder-coated extruded sectional aluminium, clipped into the gear tray. Linear RIDI LED modules connected to the aluminium profile over their entire length using a patented fixing method for optimised uniform heat dissipation. The LED modules are fitted with LEDs up to the ends of the LED holder. Longitudinal optics made of extruded impact-resistant UV stabilised PMMA.

At the top of the gear tray there is a groove for external through wiring, max. 3x1.5 mm<sup>2</sup>, or 8 mm dia.

Two cable entries at the top of the gear tray.

End caps in impact-resistant UV-stabilised PC with 11 mm dia. knock-out opening into the luminaire, and 8.5 mm wide knock-out opening in the groove on at the top of the luminaire. White finish with end caps in white, silver finish (SI) with end caps in dust grey RAL7037.

LED linear modules fitted with mid-power LEDs for even illumination and maximum efficiency. Colour tolerance < 3 step Mac Adam (initial). Operation of the LED modules using safety extra low voltage less than 60 Volts (SELV conformity).

Nominal service life:

Ambient temperature -20°C to +40°C

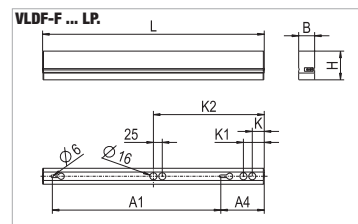
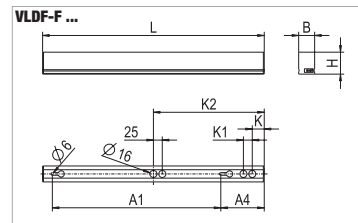
LED components: L80B50 ≥ 50,000 hours

Colour rendering in index Ra ≥ 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

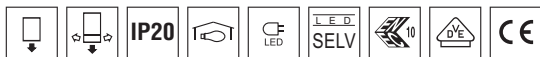
- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volts, 0/50-60 Hz with internal connector block 5 x 2.5 mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Suitable for direct mounting on normally flame retardant materials. Simple, low-cost one-man mounting using screws through the key-shaped holes in the top of the luminaire or with a flexible fixing distance using fixing clips (accessories). Fixing kits are available for pendant mounting, see accessories.



### Non-standard designs:

- Emergency lighting version
- Through wiring
- Light colour 865 (6500 Kelvin)
- Other light colours on request
- Extreme narrow-beam optics
- Double asymmetrical optics



## VLDF-F ...B...

Linear optics with wide beam light distribution, extruded from clear, impact-resistant UV-stabilised PMMA, integrated flush in the LED holder. Direct beam.



Model	Lamps	Luminaire luminous flux (lm)	Luminaire output (W)	Luminaire efficiency (lm/W)	Luminous colour	L	B	H	Dimens. (mm)			K	K1	K2	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
									A1	A4	K					
VLDF-F124xxSI-160B830	1xLED-M 9 W	1482	10	148	830	500	36	50	380	98	27	20	-	0522501SI	0532501SI	
VLDF-F124xxSI-170B840	1xLED-M 9 W	1574	10	157	840	500	36	50	380	98	27	20	-	0522505SI	0532505SI	
VLDF-F124xxWS-160B830	1xLED-M 9 W	1482	10	148	830	500	36	50	380	98	27	20	-	0522501	0532501	
VLDF-F124xxWS-170B840	1xLED-M 9 W	1574	10	157	840	500	36	50	380	98	27	20	-	0522505	0532505	
VLDF-F139xxSI-280B830	1xLED-M 16 W	2593	19	136	830	888	36	50	600	166	25	25	-	0522509SI	0532509SI	
VLDF-F139xxSI-300B840	1xLED-M 16 W	2778	19	146	840	888	36	50	600	166	25	25	-	0522513SI	0532513SI	
VLDF-F139xxWS-280B830	1xLED-M 16 W	2593	19	136	830	888	36	50	600	166	25	25	-	0522509	0532509	
VLDF-F139xxWS-300B840	1xLED-M 16 W	2778	19	146	840	888	36	50	600	166	25	25	-	0522513	0532513	
VLDF-F149xxSI-470B830	1xLED-M 27 W	4352	31	140	830	1488	36	50	1000	256	25	25	744	0522517SI	0532517SI	
VLDF-F149xxSI-500B840	1xLED-M 27 W	4630	31	149	840	1488	36	50	1000	256	25	25	744	0522521SI	0532521SI	
VLDF-F149xxWS-470B830	1xLED-M 27 W	4352	31	140	830	1488	36	50	1000	256	25	25	744	0522517	0532517	
VLDF-F149xxWS-500B840	1xLED-M 27 W	4630	31	149	840	1488	36	50	1000	256	25	25	744	0522521	0532521	
VLDF-F154xxSI-380B830	1xLED-M 22 W	3519	25	140	830	1188	36	50	800	231	25	25	594	0522525SI	0532525SI	
VLDF-F154xxSI-400B840	1xLED-M 22 W	3704	25	148	840	1188	36	50	800	231	25	25	594	0522529SI	0532529SI	
VLDF-F154xxWS-380B830	1xLED-M 22 W	3519	25	140	830	1188	36	50	800	231	25	25	594	0522525	0532525	
VLDF-F154xxWS-400B840	1xLED-M 22 W	3704	25	148	840	1188	36	50	800	231	25	25	594	0522529	0532529	
VLDF-F180xxSI-650B830	1xLED-M 38 W	6019	43	139	830	1488	36	50	1000	256	25	25	744	0522533SI	0532533SI	
VLDF-F180xxSI-680B840	1xLED-M 38 W	6297	43	146	840	1488	36	50	1000	256	25	25	744	0522538SI	0532538SI	
VLDF-F180xxWS-650B830	1xLED-M 38 W	6019	43	139	830	1488	36	50	1000	256	25	25	744	0522533	0532533	
VLDF-F180xxWS-680B840	1xLED-M 38 W	6297	43	146	840	1488	36	50	1000	256	25	25	744	0522538	0532538	



**VLDF-F ...T...**

Linear optics with narrow beam light distribution, extruded from clear, impact-resistant UV-stabilised PMMA, integrated flush in the LED holder. Direct beam.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	B	H	Dimens. [mm]		K	K1	K2	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
									A1	A4					
VLDF-F124xxSI-160T830	1xLED-M 9 W	1374	10	137	830	500	36	50	380	98	27	20	-	0522503SI	0532503SI
VLDF-F124xxSI-170T840	1xLED-M 9 W	1460	10	146	840	500	36	50	380	98	27	20	-	0522507SI	0532507SI
VLDF-F124xxWS-160T830	1xLED-M 9 W	1374	10	137	830	500	36	50	380	98	27	20	-	0522503	0532503
VLDF-F124xxWS-170T840	1xLED-M 9 W	1460	10	146	840	500	36	50	380	98	27	20	-	0522507	0532507
VLDF-F139xxSI-280T830	1xLED-M 16 W	2405	19	126	830	888	36	50	600	166	25	25	-	0522511SI	0532511SI
VLDF-F139xxSI-300T840	1xLED-M 16 W	2577	19	135	840	888	36	50	600	166	25	25	-	0522515SI	0532515SI
VLDF-F139xxWS-280T830	1xLED-M 16 W	2405	19	126	830	888	36	50	600	166	25	25	-	0522511	0532511
VLDF-F139xxWS-300T840	1xLED-M 16 W	2577	19	135	840	888	36	50	600	166	25	25	-	0522515	0532515
VLDF-F149xxSI-470T830	1xLED-M 27 W	4037	31	130	830	1488	36	50	1000	256	25	25	744	0522519SI	0532519SI
VLDF-F149xxSI-500T840	1xLED-M 27 W	4295	31	138	840	1488	36	50	1000	256	25	25	744	0522523SI	0532523SI
VLDF-F149xxWS-470T830	1xLED-M 27 W	4037	31	130	830	1488	36	50	1000	256	25	25	744	0522519	0532519
VLDF-F149xxWS-500T840	1xLED-M 27 W	4295	31	138	840	1488	36	50	1000	256	25	25	744	0522523	0532523
VLDF-F154xxSI-380T830	1xLED-M 22 W	3264	25	130	830	1188	36	50	800	231	25	25	594	0522527SI	0532527SI
VLDF-F154xxSI-400T840	1xLED-M 22 W	3436	25	137	840	1188	36	50	800	231	25	25	594	0522531SI	0532531SI
VLDF-F154xxWS-380T830	1xLED-M 22 W	3264	25	130	830	1188	36	50	800	231	25	25	594	0522527	0532527
VLDF-F154xxWS-400T840	1xLED-M 22 W	3436	25	137	840	1188	36	50	800	231	25	25	594	0522531	0532531
VLDF-F180xxSI-650T830	1xLED-M 38 W	5584	43	129	830	1488	36	50	1000	256	25	25	744	0522535SI	0532535SI
VLDF-F180xxSI-680T840	1xLED-M 38 W	5841	43	135	840	1488	36	50	1000	256	25	25	744	0522539SI	0532539SI
VLDF-F180xxWS-650T830	1xLED-M 38 W	5584	43	129	830	1488	36	50	1000	256	25	25	744	0522535	0532535
VLDF-F180xxWS-680T840	1xLED-M 38 W	5841	43	135	840	1488	36	50	1000	256	25	25	744	0522539	0532539



**VLDF-F ...0...**

Linear optics with diffuse light distribution, extruded from opal, impact-resistant UV-stabilised PMMA, integrated flush in the LED holder. Direct beam.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	B	H	Dimens. [mm]		K	K1	K2	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
									A1	A4					
VLDF-F124xxSI-1600830	1xLED-M 9 W	1245	10	124	830	500	36	50	380	98	27	20	-	0522502SI	0532502SI
VLDF-F124xxSI-1700840	1xLED-M 9 W	1323	10	132	840	500	36	50	380	98	27	20	-	0522506SI	0532506SI
VLDF-F124xxWS-1600830	1xLED-M 9 W	1245	10	124	830	500	36	50	380	98	27	20	-	0522502	0532502
VLDF-F124xxWS-1700840	1xLED-M 9 W	1323	10	132	840	500	36	50	380	98	27	20	-	0522506	0532506
VLDF-F139xxSI-2800830	1xLED-M 16 W	2178	19	114	830	888	36	50	600	166	25	25	-	0522510SI	0532510SI
VLDF-F139xxSI-3000840	1xLED-M 16 W	2334	19	122	840	888	36	50	600	166	25	25	-	0522514SI	0532514SI
VLDF-F139xxWS-2800830	1xLED-M 16 W	2178	19	114	830	888	36	50	600	166	25	25	-	0522510	0532510
VLDF-F139xxWS-3000840	1xLED-M 16 W	2334	19	122	840	888	36	50	600	166	25	25	-	0522514	0532514
VLDF-F149xxSI-4700830	1xLED-M 27 W	3657	31	117	830	1488	36	50	1000	256	25	25	744	0522518SI	0532518SI
VLDF-F149xxSI-5000840	1xLED-M 27 W	3890	31	125	840	1488	36	50	1000	256	25	25	744	0522522SI	0532522SI
VLDF-F149xxWS-4700830	1xLED-M 27 W	3657	31	117	830	1488	36	50	1000	256	25	25	744	0522518	0532518
VLDF-F149xxWS-5000840	1xLED-M 27 W	3890	31	125	840	1488	36	50	1000	256	25	25	744	0522522	0532522
VLDF-F154xxSI-3800830	1xLED-M 22 W	2956	25	118	830	1188	36	50	800	231	25	25	594	0522526SI	0532526SI
VLDF-F154xxSI-4000840	1xLED-M 22 W	3112	25	124	840	1188	36	50	800	231	25	25	594	0522530SI	0532530SI
VLDF-F154xxWS-3800830	1xLED-M 22 W	2956	25	118	830	1188	36	50	800	231	25	25	594	0522526	0532526
VLDF-F154xxWS-4000840	1xLED-M 22 W	3112	25	124	840	1188	36	50	800	231	25	25	594	0522530	0532530
VLDF-F180xxSI-6500830	1xLED-M 38 W	5057	43	117	830	1488	36	50	1000	256	25	25	744	0522534SI	0532534SI
VLDF-F180xxSI-6800840	1xLED-M 38 W	5290	43	123	840	1488	36	50	1000	256	25	25	744	0522537SI	0532537SI
VLDF-F180xxWS-6500830	1xLED-M 38 W	5057	43	117	830	1488	36	50	1000	256	25	25	744	0522534	0532534
VLDF-F180xxWS-6800840	1xLED-M 38 W	5290	43	123	840	1488	36	50	1000	256	25	25	744	0522537	0532537

## Light batten series VLDF-F



### VLDF-F ...A...

Linear optics with asymmetric light distribution, extruded from clear, impact-resistant UV-stabilised PMMA, integrated flush in the LED holder. Direct beam.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	B	H	Dimens. [mm]		K	K1	K2	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
									A1	A4					
VLDF-F124xxSI-160A830	1xLED-M 9 W	1381	10	138	830	500	36	50	380	98	27	20	-	0522500SI	0532500SI
VLDF-F124xxSI-170A840	1xLED-M 9 W	1467	10	146	840	500	36	50	380	98	27	20	-	0522504SI	0532504SI
VLDF-F124xxWS-160A830	1xLED-M 9 W	1381	10	138	830	500	36	50	380	98	27	20	-	0522500	0532500
VLDF-F124xxWS-170A840	1xLED-M 9 W	1467	10	146	840	500	36	50	380	98	27	20	-	0522504	0532504
VLDF-F139xxSI-280A830	1xLED-M 16 W	2416	19	127	830	888	36	50	600	166	25	25	-	0522508SI	0532508SI
VLDF-F139xxSI-300A840	1xLED-M 16 W	2589	19	136	840	888	36	50	600	166	25	25	-	0522512SI	0532512SI
VLDF-F139xxWS-280A830	1xLED-M 16 W	2416	19	127	830	888	36	50	600	166	25	25	-	0522508	0532508
VLDF-F139xxWS-300A840	1xLED-M 16 W	2589	19	136	840	888	36	50	600	166	25	25	-	0522512	0532512
VLDF-F149xxSI-470A830	1xLED-M 27 W	4056	31	130	830	1488	36	50	1000	256	25	25	744	0522516SI	0532516SI
VLDF-F149xxSI-500A840	1xLED-M 27 W	4315	31	139	840	1488	36	50	1000	256	25	25	744	0522520SI	0532520SI
VLDF-F149xxWS-470A830	1xLED-M 27 W	4056	31	130	830	1488	36	50	1000	256	25	25	744	0522516	0532516
VLDF-F149xxWS-500A840	1xLED-M 27 W	4315	31	139	840	1488	36	50	1000	256	25	25	744	0522520	0532520
VLDF-F154xxSI-380A830	1xLED-M 22 W	3279	25	131	830	1188	36	50	800	231	25	25	594	0522524SI	0532524SI
VLDF-F154xxSI-400A840	1xLED-M 22 W	3452	25	138	840	1188	36	50	800	231	25	25	594	0522528SI	0532528SI
VLDF-F154xxWS-380A830	1xLED-M 22 W	3279	25	131	830	1188	36	50	800	231	25	25	594	0522524	0532524
VLDF-F154xxWS-400A840	1xLED-M 22 W	3452	25	138	840	1188	36	50	800	231	25	25	594	0522528	0532528
VLDF-F180xxSI-650A830	1xLED-M 38 W	5610	43	130	830	1488	36	50	1000	256	25	25	744	0522532SI	0532532SI
VLDF-F180xxSI-680A840	1xLED-M 38 W	5868	43	136	840	1488	36	50	1000	256	25	25	744	0522536SI	0532536SI
VLDF-F180xxWS-650A830	1xLED-M 38 W	5610	43	130	830	1488	36	50	1000	256	25	25	744	0522532	0532532
VLDF-F180xxWS-680A840	1xLED-M 38 W	5868	43	136	840	1488	36	50	1000	256	25	25	744	0522536	0532536



### VLDF-F ...LPO...

Linear optics with opal longitudinal prism diffuser for a slight indirect component and diffuse light distribution. Extruded diffuser profile made of PC with opal end caps fixed into both ends.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	B	H	Dimens. [mm]		K	K1	K2	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
									A1	A4					
VLDF-F124xxSI-160LPO830	1xLED-M 9 W	1307	10	130	830	500	36	65	380	98	27	20	-	0522541SI	0532541SI
VLDF-F124xxSI-170LPO840	1xLED-M 9 W	1389	10	138	840	500	36	65	380	98	27	20	-	0522543SI	0532543SI
VLDF-F124xxWS-160LPO830	1xLED-M 9 W	1307	10	130	830	500	36	65	380	98	27	20	-	0522541	0532541
VLDF-F124xxWS-170LPO840	1xLED-M 9 W	1389	10	138	840	500	36	65	380	98	27	20	-	0522543	0532543
VLDF-F139xxSI-280LPO830	1xLED-M 16 W	2288	19	120	830	888	36	65	600	166	25	25	-	0522545SI	0532545SI
VLDF-F139xxSI-300LPO840	1xLED-M 16 W	2451	19	129	840	888	36	65	600	166	25	25	-	0522547SI	0532547SI
VLDF-F139xxWS-280LPO830	1xLED-M 16 W	2288	19	120	830	888	36	65	600	166	25	25	-	0522545	0532545
VLDF-F139xxWS-300LPO840	1xLED-M 16 W	2451	19	129	840	888	36	65	600	166	25	25	-	0522547	0532547
VLDF-F149xxSI-470LPO830	1xLED-M 27 W	3840	31	123	830	1488	36	65	1000	256	25	25	744	0522549SI	0532549SI
VLDF-F149xxSI-500LPO840	1xLED-M 27 W	4085	31	131	840	1488	36	65	1000	256	25	25	744	0522551SI	0532551SI
VLDF-F149xxWS-470LPO830	1xLED-M 27 W	3840	31	123	830	1488	36	65	1000	256	25	25	744	0522549	0532549
VLDF-F149xxWS-500LPO840	1xLED-M 27 W	4085	31	131	840	1488	36	65	1000	256	25	25	744	0522551	0532551
VLDF-F154xxSI-380LPO830	1xLED-M 22 W	3105	25	124	830	1188	36	65	800	231	25	25	594	0522553SI	0532553SI
VLDF-F154xxSI-400LPO840	1xLED-M 22 W	3268	25	130	840	1188	36	65	800	231	25	25	594	0522555SI	0532555SI
VLDF-F154xxWS-380LPO830	1xLED-M 22 W	3105	25	124	830	1188	36	65	800	231	25	25	594	0522553	0532553
VLDF-F154xxWS-400LPO840	1xLED-M 22 W	3268	25	130	840	1188	36	65	800	231	25	25	594	0522555	0532555
VLDF-F180xxSI-650LPO830	1xLED-M 38 W	5311	43	123	830	1488	36	65	1000	256	25	25	744	0522557SI	0532557SI
VLDF-F180xxSI-680LPO840	1xLED-M 38 W	5556	43	129	840	1488	36	65	1000	256	25	25	744	0522559SI	0532559SI
VLDF-F180xxWS-650LPO830	1xLED-M 38 W	5311	43	123	830	1488	36	65	1000	256	25	25	744	0522557	0532557
VLDF-F180xxWS-680LPO840	1xLED-M 38 W	5556	43	129	840	1488	36	65	1000	256	25	25	744	0522559	0532559



**VLDF-F ...LPT...**

Linear optics with transparent longitudinal prism diffuser for a slight indirect component and efficient light distribution and glare limitation. Extruded diffuser profile made of PC with satinised end caps fixed into both ends.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	B	H	Dimens. [mm]			K	K1	K2	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
									A1	A4						
VLDF-F124xxSI-160LPT830	1xLED-M 9 W	1480	10	148	830	500	36	65	380	98	27	20	-	0522540SI	0532540SI	
VLDF-F124xxSI-170LPT840	1xLED-M 9 W	1573	10	157	840	500	36	65	380	98	27	20	-	0522542SI	0532542SI	
VLDF-F124xxWS-160LPT830	1xLED-M 9 W	1480	10	148	830	500	36	65	380	98	27	20	-	0522540	0532540	
VLDF-F124xxWS-170LPT840	1xLED-M 9 W	1573	10	157	840	500	36	65	380	98	27	20	-	0522542	0532542	
VLDF-F139xxSI-280LPT830	1xLED-M 16 W	2590	19	136	830	888	36	65	600	166	25	25	-	0522544SI	0532544SI	
VLDF-F139xxSI-300LPT840	1xLED-M 16 W	2775	19	146	840	888	36	65	600	166	25	25	-	0522546SI	0532546SI	
VLDF-F139xxWS-280LPT830	1xLED-M 16 W	2590	19	136	830	888	36	65	600	166	25	25	-	0522544	0532544	
VLDF-F139xxWS-300LPT840	1xLED-M 16 W	2775	19	146	840	888	36	65	600	166	25	25	-	0522546	0532546	
VLDF-F149xxSI-470LPT830	1xLED-M 27 W	4348	31	140	830	1488	36	65	1000	256	25	25	744	0522548SI	0532548SI	
VLDF-F149xxSI-500LPT840	1xLED-M 27 W	4625	31	149	840	1488	36	65	1000	256	25	25	744	0522550SI	0532550SI	
VLDF-F149xxWS-470LPT830	1xLED-M 27 W	4348	31	140	830	1488	36	65	1000	256	25	25	744	0522548	0532548	
VLDF-F149xxWS-500LPT840	1xLED-M 27 W	4625	31	149	840	1488	36	65	1000	256	25	25	744	0522550	0532550	
VLDF-F154xxSI-380LPT830	1xLED-M 22 W	3515	25	140	830	1188	36	65	800	231	25	25	594	0522552SI	0532552SI	
VLDF-F154xxSI-400LPT840	1xLED-M 22 W	3700	25	148	840	1188	36	65	800	231	25	25	594	0522554SI	0532554SI	
VLDF-F154xxWS-380LPT830	1xLED-M 22 W	3515	25	140	830	1188	36	65	800	231	25	25	594	0522552	0532552	
VLDF-F154xxWS-400LPT840	1xLED-M 22 W	3700	25	148	840	1188	36	65	800	231	25	25	594	0522554	0532554	
VLDF-F180xxSI-650LPT830	1xLED-M 38 W	6013	43	139	830	1488	36	65	1000	256	25	25	744	0522556SI	0532556SI	
VLDF-F180xxSI-680LPT840	1xLED-M 38 W	6290	43	146	840	1488	36	65	1000	256	25	25	744	0522558SI	0532558SI	
VLDF-F180xxWS-650LPT830	1xLED-M 38 W	6013	43	139	830	1488	36	65	1000	256	25	25	744	0522556	0532556	
VLDF-F180xxWS-680LPT840	1xLED-M 38 W	6290	43	146	840	1488	36	65	1000	256	25	25	744	0522558	0532558	



# Light batten series VLDF-F ...-DV

## VLDF-F ...-DV

**Design:** Batten LED, single luminaire, for surface and pendant mounting, suitable for electrical coupling. Narrow, torsionally rigid batten with steel gear tray coated in white (similar to RAL9016) or silver (SI, similar to RAL9006) synthetic resin. LED holder made of powder-coated extruded sectional aluminium, clipped into the gear tray. Linear RIDI LED modules connected to the aluminium profile over their entire length using a patented fixing method for optimised uniform heat dissipation. The LED modules are fitted with LEDs up to the ends of the LED holder. Longitudinal optics made of extruded impact-resistant UV stabilised PMMA.

Through wiring integrated into the luminaire, luminaire connection using an intermediate coupling with a plug/socket at the face end, electrical connection by means of intermediate coupling or connecting cable.

LED linear modules fitted with mid-power LEDs for even illumination and maximum efficiency. Colour tolerance < 3 step Mac Adam (initial). Operation of the LED modules using safety extra low voltage less than 60 Volts (SELV conformity).

Nominal service life:

Ambient temperature -20°C to +40°C

LED components: L80B50 ≥ 50,000 hours

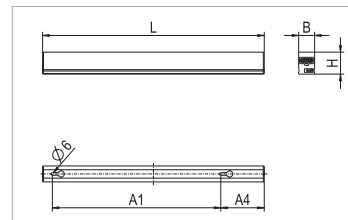
Colour rendering in index Ra ≥ 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

• dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Electrical connection via an externally accessible connector to up to 3x2.5mm<sup>2</sup>. The connecting socket is not included in the delivery.

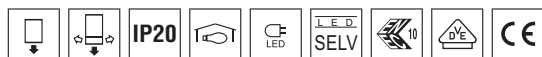
• el. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Electrical connection via an externally accessible connector to up to 3x2.5mm<sup>2</sup>. The connecting socket is not included in the delivery.

**Mounting:** Suitable for direct mounting on normally flame retardant materials. Simple, low-cost one-man mounting using screws through the key-shaped holes in the top of the luminaire or with a flexible fixing distance using fixing clips (accessories). Fixing kits are available for pendant mounting, see accessories.



### Non-standard designs:

- Emergency lighting version
- Light colour 830 (3000 Kelvin)
- Light colour 865 (6500 Kelvin)
- Other light colours on request
- Extreme narrow-beam optics
- Double asymmetrical optics



### VLDF-F ...B...-DV

Linear optics with wide beam light distribution, extruded from clear, impact-resistant UV-stabilised PMMA, integrated flush in the LED holder. Direct beam.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
						L	B	H	A1	A4		
VLDF-F124xxWS-170B840-DV3	1xLED-M 9 W	1574	10	157	840	500	36	49,5	350	85	0522505//412	
VLDF-F124xxWS-170B840-DV5	1xLED-M 9 W	1574	10	157	840	500	36	49,5	350	85		0532505//411
VLDF-F139xxWS-300B840-DV3	1xLED-M 16 W	2778	19	146	840	888	36	49,5	600	166	0522513//412	
VLDF-F139xxWS-300B840-DV5	1xLED-M 16 W	2778	19	146	840	888	36	49,5	600	166		0532513//411
VLDF-F149xxWS-500B840-DV3	1xLED-M 27 W	4630	31	149	840	1488	36	49,5	1000	256	0522521//412	
VLDF-F149xxWS-500B840-DV5	1xLED-M 27 W	4630	31	149	840	1488	36	49,5	1000	256		0532521//411
VLDF-F154xxWS-400B840-DV3	1xLED-M 22 W	3704	25	148	840	1188	36	49,5	800	231	0522529//412	
VLDF-F154xxWS-400B840-DV5	1xLED-M 22 W	3704	25	148	840	1188	36	49,5	800	231		0532529//411
VLDF-F180xxWS-680B840-DV3	1xLED-M 38 W	6297	43	146	840	1488	36	49,5	1000	256	0522538//412	
VLDF-F180xxWS-680B840-DV5	1xLED-M 38 W	6297	43	146	840	1488	36	49,5	1000	256		0532538//411



### VLDF-F ...A...-DV

Linear optics with asymmetric light distribution, extruded from clear, impact-resistant UV-stabilised PMMA, integrated flush in the LED holder. Direct beam.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
						L	B	H	A1	A4		
VLDF-F124xxWS-170A840-DV3	1xLED-M 9 W	1467	10	146	840	500	36	49,5	350	85	0522504//412	
VLDF-F124xxWS-170A840-DV5	1xLED-M 9 W	1467	10	146	840	500	36	49,5	350	85		0532504//411
VLDF-F139xxWS-300A840-DV3	1xLED-M 16 W	2589	19	136	840	888	36	49,5	600	166	0522512//412	
VLDF-F139xxWS-300A840-DV5	1xLED-M 16 W	2589	19	136	840	888	36	49,5	600	166		0532512//411
VLDF-F149xxWS-500A840-DV3	1xLED-M 27 W	4315	31	139	840	1488	36	49,5	1000	256	0522520//412	
VLDF-F149xxWS-500A840-DV5	1xLED-M 27 W	4315	31	139	840	1488	36	49,5	1000	256		0532520//411
VLDF-F154xxWS-400A840-DV3	1xLED-M 22 W	3452	25	138	840	1188	36	49,5	800	231	0522528//412	
VLDF-F154xxWS-400A840-DV5	1xLED-M 22 W	3452	25	138	840	1188	36	49,5	800	231		0532528//411
VLDF-F180xxWS-680A840-DV3	1xLED-M 38 W	5868	43	136	840	1488	36	49,5	1000	256	0522536//412	
VLDF-F180xxWS-680A840-DV5	1xLED-M 38 W	5868	43	136	840	1488	36	49,5	1000	256		0532536//411



**VLDF-F ...LPO...-DV**

Linear optics with opal longitudinal prism diffuser for a slight indirect component and diffuse light distribution. Extruded diffuser profile made of PC with opal end caps fixed into both ends.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]				el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
							B	H	A1	A4		
VLDF-F124xxWS-170LPO840-DV3	1xLED-M 9 W	1389	10	138	840	500	36	65	350	85	0522543//412	
VLDF-F124xxWS-170LPO840-DV5	1xLED-M 9 W	1389	10	138	840	500	36	65	350	85		0532543//411
VLDF-F139xxWS-300LPO840-DV3	1xLED-M 16 W	2451	19	129	840	888	36	65	600	166	0522547//412	
VLDF-F139xxWS-300LPO840-DV5	1xLED-M 16 W	2451	19	129	840	888	36	65	600	166		0532547//411
VLDF-F149xxWS-500LPO840-DV3	1xLED-M 27 W	4085	31	131	840	1488	36	65	1000	256	0522551//412	
VLDF-F149xxWS-500LPO840-DV5	1xLED-M 27 W	4085	31	131	840	1488	36	65	1000	256		0532551//411
VLDF-F154xxWS-400LPO840-DV3	1xLED-M 22 W	3268	25	130	840	1188	36	65	800	231	0522555//412	
VLDF-F154xxWS-400LPO840-DV5	1xLED-M 22 W	3268	25	130	840	1188	36	65	800	231		0532555//411
VLDF-F180xxWS-680LPO840-DV3	1xLED-M 38 W	5556	43	129	840	1488	36	65	1000	256	0522559//412	
VLDF-F180xxWS-680LPO840-DV5	1xLED-M 38 W	5556	43	129	840	1488	36	65	1000	256		0532559//411



**VLDF-F ...LPT...-DV**

Linear optics with transparent longitudinal prism diffuser for a slight indirect component and efficient light distribution and glare limitation. Extruded diffuser profile made of PC with satinised end caps fixed into both ends.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]				el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
							B	H	A1	A4		
VLDF-F124xxWS-170LPT840-DV3	1xLED-M 9 W	1573	10	157	840	500	36	65	350	85	0522542//412	
VLDF-F124xxWS-170LPT840-DV5	1xLED-M 9 W	1573	10	157	840	500	36	65	350	85		0532542//411
VLDF-F139xxWS-300LPT840-DV3	1xLED-M 16 W	2775	19	146	840	888	36	65	600	166	0522546//412	
VLDF-F139xxWS-300LPT840-DV5	1xLED-M 16 W	2775	19	146	840	888	36	65	600	166		0532546//411
VLDF-F149xxWS-500LPT840-DV3	1xLED-M 27 W	4625	31	149	840	1488	36	65	1000	256	0522550//412	
VLDF-F149xxWS-500LPT840-DV5	1xLED-M 27 W	4625	31	149	840	1488	36	65	1000	256		0532550//411
VLDF-F154xxWS-400LPT840-DV3	1xLED-M 22 W	3700	25	148	840	1188	36	65	800	231	0522554//412	
VLDF-F154xxWS-400LPT840-DV5	1xLED-M 22 W	3700	25	148	840	1188	36	65	800	231		0532554//411
VLDF-F180xxWS-680LPT840-DV3	1xLED-M 38 W	6290	43	146	840	1488	36	65	1000	256	0522558//412	
VLDF-F180xxWS-680LPT840-DV5	1xLED-M 38 W	6290	43	146	840	1488	36	65	1000	256		0532558//411

**Accessories**

Model	Description	Prod. code
ZEL-BU-GST15i3-3-POL	Socket part WIELAND 3-pin, white	0204555
ZEL-BU-GST15i3-3-POL	Socket part WIELAND 3-pin, black	0204556
ZEL-BU-GST15i5-5-POL-DA	Socket part WIELAND 5-pin, pastel blue, housing white, DALI	0204553
ZEL-BU-GST15i5-5-POL-DA	Socket part WIELAND 5-pin, pastel blue, housing black DALI	0204554
ZEL-BU-ST-GST15i3	for various connector cable assemblies, white	0204614
ZEL-BU-ST-GST15i5-DA	for various connector cable assemblies, white	0204613
ZEL-ZK-GST15i3-3-POL	Intermediate coupling, WIELAND 3-pin, white	0204551
ZEL-ZK-GST15i3-3-POL	Intermediate coupling, WIELAND 3-pin, black	0204552
ZEL-ZK-GST15i5-5-POL-DA	Intermediate coupling, WIELAND 5-pin, pastel blue, DALI	0204550
ZVL-VLDF-F-DV3 SW/1,0	Connector cable, 3 pin, black, plug and socket, 1000 mm	0204610
ZVL-VLDF-F-DV3 SW/2,0	Connector cable, 3 pin, black, plug and socket, 2000 mm	0204610/L200
ZVL-VLDF-F-DV3 SW/3,0	Connector cable, 3 pin, black, plug and socket, 3000 mm	0204610/L300
ZVL-VLDF-F-DV3 WS/1,0	Connector cable, 3 pin, white, plug and socket, 1000 mm	0204609
ZVL-VLDF-F-DV3 WS/2,0	Connector cable, 3 pin, white, plug and socket, 2000 mm	0204609/L200
ZVL-VLDF-F-DV3 WS/3,0	Connector cable, 3 pin, white, plug and socket, 3000 mm	0204609/L300
ZVL-VLDF-F-DV5 SW/1,0	Connector cable, 5 pin, black, DALI plug and socket, 1000 mm	0204612
ZVL-VLDF-F-DV5 SW/2,0	Connector cable, 5 pin, black, DALI plug and socket, 2000 mm	0204612/L200
ZVL-VLDF-F-DV5 SW/3,0	Connector cable, 5 pin, black, DALI plug and socket, 3000 mm	0204612/L300
ZVL-VLDF-F-DV5 WS/1,0	Connector cable, 5 pin, white, DALI plug and socket, 1000 mm	0204611
ZVL-VLDF-F-DV5 WS/2,0	Connector cable, 5 pin, white, DALI plug and socket, 2000 mm	0204611/L200
ZVL-VLDF-F-DV5 WS/3,0	Connector cable, 5 pin, white, DALI plug and socket, 3000 mm	0204611/L300

# Light batten series VLDF-F-ECO ...

## VLDF-F-ECO ...

**Design:** LED light strip for attachment and pendant mounting. Narrow, torsion-resistant, profiled light strip with gear tray made of sheet steel, white (similar to RAL9016) epoxy resin coated. LED carrier made of powder-coated aluminium extruded profile, clipped into gear tray. LED linear modules equipped with mid-power LEDs for maximum efficiency. LED modules connected across the entire length with the aluminium profile through a patented fastening process for ideal, uniform heat dissipation. The LED modules are equipped with LEDs up to the LED carrier ends.

Lengthwise appearance made of extruded, impact resistant, UV-resistant PMMA.

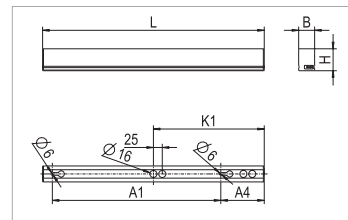
Protection class IP 20. Safety class I.

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Suitable for direct mounting on normally flame retardant materials. Simple, low-cost one-man mounting using screws through the key-shaped holes in the top of the luminaire or with a flexible fixing distance using fixing clips (accessories). Fixing kits are available for pendant mounting, see accessories.



acc. to DIN EN 60598/VDE 0711

### VLDF-F-ECO ...B...

Linear optics with wide beam light distribution, extruded from clear, impact-resistant UV-stabilised PMMA, integrated flush in the LED holder. Direct beam.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]					el. conv. xx=ND Prod. code
							B	H	A1	A4	K1	
VLDF-F-ECO 056-207B830	1xLED-M 15 W	1917	17	112	830	566	36	50	400	100	50	0522561
VLDF-F-ECO 056-220B840	1xLED-M 15 W	2037	17	119	840	566	36	50	400	100	50	0522560
VLDF-F-ECO 112-414B830	1xLED-M 29 W	3834	33	116	830	1126	36	50	750	200	563	0522567
VLDF-F-ECO 112-440B840	1xLED-M 29 W	4074	33	123	840	1126	36	50	750	200	563	0522566
VLDF-F-ECO 140-517B830	1xLED-M 36 W	4787	41	116	830	1406	36	50	900	250	703	0522573
VLDF-F-ECO 140-550B840	1xLED-M 36 W	5093	41	124	840	1406	36	50	900	250	703	0522572

### VLDF-F-ECO ...O...

Linear optics with diffuse light distribution, extruded from opal, impact-resistant UV-stabilised PMMA, integrated flush in the LED holder. Direct beam.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]					el. conv. xx=ND Prod. code
							B	H	A1	A4	K1	
VLDF-F-ECO 056-207O830	1xLED-M 15 W	1610	17	94	830	566	36	50	400	100	50	0522563
VLDF-F-ECO 056-220O840	1xLED-M 15 W	1712	17	100	840	566	36	50	400	100	50	0522562
VLDF-F-ECO 112-414O830	1xLED-M 29 W	3221	33	97	830	1126	36	50	750	200	563	0522569
VLDF-F-ECO 112-440O840	1xLED-M 29 W	3423	33	103	840	1126	36	50	750	200	563	0522568
VLDF-F-ECO 140-517O830	1xLED-M 36 W	4022	41	98	830	1406	36	50	900	250	703	0522575
VLDF-F-ECO 140-550O840	1xLED-M 36 W	4279	41	104	840	1406	36	50	900	250	703	0522574

### VLDF-F-ECO ...LPO...

Linear optics with opal longitudinal prism diffuser for a slight indirect component and diffuse light distribution. Extruded diffuser profile made of PC with opal end caps fixed into both ends.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]					el. conv. xx=ND Prod. code
							B	H	A1	A4	K1	
VLDF-F-ECO 056-207LPO830	1xLED-M 15 W	1691	17	99	830	566	36	65	400	100	50	0522565
VLDF-F-ECO 056-220LPO840	1xLED-M 15 W	1797	17	105	840	566	36	65	400	100	50	0522564
VLDF-F-ECO 112-414LPO830	1xLED-M 29 W	3382	33	102	830	1126	36	65	750	200	563	0522571
VLDF-F-ECO 112-440LPO840	1xLED-M 29 W	3595	33	108	840	1126	36	65	750	200	563	0522570
VLDF-F-ECO 140-517LPO830	1xLED-M 36 W	4224	41	103	830	1406	36	65	900	250	703	0522577
VLDF-F-ECO 140-550LPO840	1xLED-M 36 W	4494	41	109	840	1406	36	65	900	250	703	0522576



## Light batten series VLF-T16-R... for lamp RIDI-TUBE

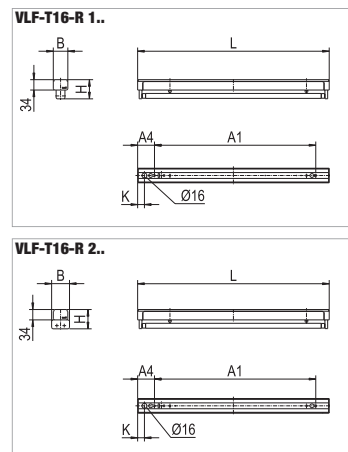
**Design:** Light batten for surface and pendant mounting. Rigid steel profiled luminaire housing made of sheet steel, coated white on both sides. End pieces in plastic complete with knock-outs for through wiring inside or outside of the luminaire. Profiled ceiling plate with an indented channel on the ceiling side for through wiring external to the luminaire, max. 3 x 1.5 mm<sup>2</sup> / diameter 8 mm. For RIDI-TUBE lamp (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Simple, low-cost single-handed mounting of the luminaire ceiling plate using screws or similar (not included) through the keyhole-shaped hole in the plate. The fixing kits used for LINEA-DECO can be used for pendant mounting. The battens of the series VLF can be fitted with a large selection of reflectors, mirror reflectors and louvres.



acc. to DIN EN 60598/VDE 0711



### VLF-T16-R ...

Exposed or in combination with optical controls.  
For RIDI-TUBE lamp, recommended cover: matt

Model	Lamps max.	R-TUBE Category	L	B	Dimens. [mm]			K	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
					H	A1	A2			
VLF-T16-R1X055/15xx	1xR-TUBE 15 W	B	578	47	68	480	55	22	0550001	0560001
VLF-T16-R1X085/25xx	1xR-TUBE 25 W	C	878	47	68	600	162	22/47	0550004	0560004
VLF-T16-R1X115/30xx	1xR-TUBE 30 W	E, F	1178	47	68	750	240	22/47	0550002	0560002
VLF-T16-R1X145/35xx	1xR-TUBE 35 W	H, I	1478	47	68	1050	240	22/47	0550003	0560003
VLF-T16-R2X055/15xx	2xR-TUBE 15 W	B	578	58	68	480	55	22	0550005	0560005
VLF-T16-R2X085/25xx	2xR-TUBE 25 W	C	878	58	68	600	162	22/47	0550006	0560006
VLF-T16-R2X115/30xx	2xR-TUBE 30 W	E, F	1178	58	68	750	240	22/47	0550007	0560007
VLF-T16-R2X145/35xx	2xR-TUBE 35 W	H, I	1478	58	68	1050	240	22/47	0550008	0560008



## Accessories

Model	Description	Prod. code
VLDHD	Ceiling mounting VLD, H=12.5mm, lengthwise adjustment, 1 pc	0202590
VLDHK	Chain fixing for VLD, lengthw. adjustment, 1 pc	0202596
VLDHP 050	Tube pendant VLF/VLDF/VLDGT w. canopy, 500mm, white	0202593
VLDHP 050 SI	Tube pendant VLF/VLDF/VLDGT w. canopy, 500mm, silver	0202593SI
VLDHP 100	Tube pendant VLF/VLDF/VLDGT w. canopy, 1000mm, white	0202594
VLDHP 100 SI	Tube pendant VLF/VLDF/VLDGT w. canopy, 1000mm, silver	0202594SI
VLDHS	Wire pendant VLD w. ring loop, lengthw. adj. 1 pc	0202591
VLDHSB	Wire pendant VLD with ceiling fixture, 1 pc.	0204639
VLDHSB SI	Wire pendant VLD with ceiling fixture, silver, 1 pc.	0204639SI
VLDHSD	Wire pendant VLD w. ceiling fixing, lengthw. adj. 1 pc	0202592
VLDHST	Wire pend. f. syst. ceil. 24-26mm T, max 10kg, 1.5m, 1 pc	0202901
VLDHT	Quick fixing f. syst. ceil. VLD, H=12.5mm, lengthw. adj.	0202595
VLDHW	Wall fixing for VLD, lengthw. adj, white, 1 pc	0202597
VLDHW-SI	Wall fixing for VLD, lengthw. adj., silver 1 pc	0202597SI

# Optical control for VLF-T16-R

## Reflector VLR-T16 ...

Reflectors for mounting on continuous lighting system LINIA-R and batten VLF-T16-R.

For use in conjunction with

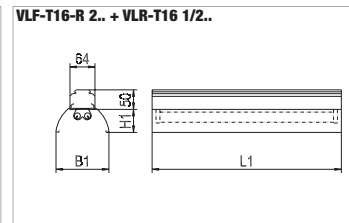
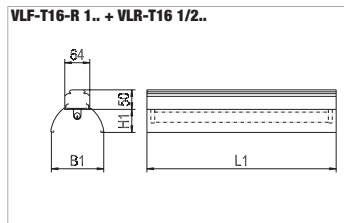
- Batten series VLF-T16-R

or

- Trunking VLT-T16
- Gear tray VLG-R

**Note:** Mirror reflectors and louvres can be inserted in reflectors VLR-T16.

1 reflector is required per continuous lighting unit



### VLR-T16

Profiled reflector made of galvanized white synthetic resin coated steel. Good reflection properties and narrow-wide beam distribution. Includes reflector connector.

Model	Dimens. [mm]			Prod. code
	L1	B1	H1	
<sup>1)</sup> VLFR-T16 1/224	585	136	62	0207716
<sup>1)</sup> VLFR-T16 1/239	885	136	62	0207717
VLR-T16 1/254	1185	136	62	0207710
VLR-T16 1/280	1485	136	62	0207711

<sup>1)</sup> Längen speziell für Lichtleiste VLF

## Steel louvre VLWR-T16

Steel louvre for insertion in reflector VLR-T16.

For use in conjunction with

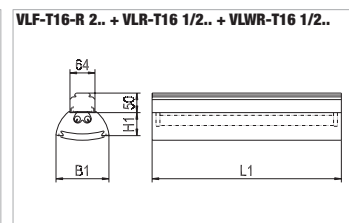
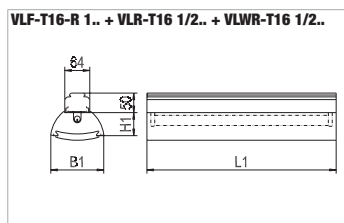
- Batten series VLF-T16-R

or

- Trunking VLT-T16
- Gear tray VLG-R
- Reflector VLR-T16

1 louvre VLWR-T16 is required per continuous lighting system gear tray.

**Note:** If installed in schools, nursery schools, changing rooms etc. always include spring VLWRS-T16-0204000 when ordering.



### VLWR-T16

Cross-blade steel louvre, white powder coated.

Model	Dimens. [mm]			Prod. code
	L1	B1	H1	
VLWR-T16 1/254	1185	136	62	0208188
VLWR-T16 1/280	1485	136	62	0208189

### Parabolic mirror louvre VLSRM-T16

Parabolic mirror louvre for insertion in reflector VLR-T16.

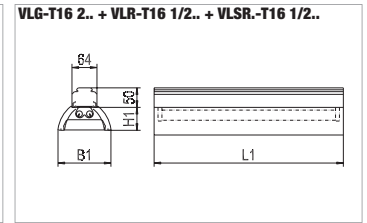
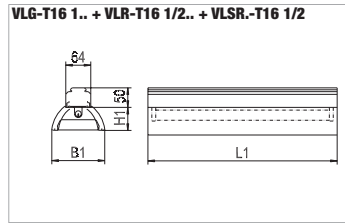
Can be used in conjunction with

- Batten series VLF-T16-R

or

- Trunking VLT-T16
- Gear tray VLG-R,
- Reflector VLR-T16

1 louvre is required per continuous lighting system gear tray.



#### VLSRM-T16

Parabolic mirror louvre made of high-reflectance, super-purity matt anodised aluminium with silver coating.

Model	Dimens. [mm]			Prod. code
	L1	B1	H1	
VLSRM-T16 1/254	1185	136	62	0207112
VLSRM-T16 1/280	1485	136	62	0207113





The construction of recessed louvre luminaires has long been a tradition at RIDI. On the basis of this wealth of experience, a whole range of practically-oriented modular luminaire series have been developed for almost all ceiling constructions. This applies equally to the adjustment of luminaires to ceilings produced by local craftsmen and also to industrially manufactured ceiling systems.

In addition to these, RIDI develops, designs and constructs recessed luminaires to individual customer specification in line with the photometric, geometric and other structural conditions.

### Universal recessed and lay-in luminaires:

The luminaire dimensions and edge shape of universal recessed and lay-in luminaires have been designed in such a way that they can be used for mounting in the most popular types of suspended ceilings:

- Ceilings with symmetric mineral fibre and plaster boards laid into concealed symmetric support rail elements
- Continuous trim strip ceilings with laid-in mineral fibre or metal ceiling tiles
- Closed ceilings with plaster boards and mineral fibre boards
- Ceilings with wide-area plaster boards and mineral fibre boards
- Wood panelled ceilings with sawn apertures
- Lay-in ceilings with ledged or grooved mineral fibre or plaster boards laid into exposed T bars.

Usable luminaire series:

EBRE-LED, EBRE6-R, EBRE9-R, EBRME-LED, EBRME6-R, EBRME9-R, E-DUO, EBE-R, ARKTIK-E, ARKTIK-ME

Due to the large number of different ceiling construction variants in terms of the modular dimensions, the type and finish of ceiling panels and tiles and the necessary fastening and fixing materials required, we advise enquiring with the manufacturer.

### Recessed luminaires for panelled ceilings:


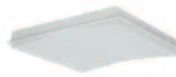






RIDI supplies special luminaires for strip panelled ceilings in which the edge heights are in agreement with the customarily used panel height and the required luminaire fixing method.

Usable luminaire series: EBRPL-R, EBW-R, EP-R

### Refurbishment luminaires:

Special luminaires are on offer for refurbishment of ageing lighting systems whose structural dimensions and fixing systems are adjusted to the conditions on site.

Usable luminaires: ESL-R, ESLE-R

	Contents	Page
	<b>FPL</b> Flat recessed luminaire for 625x625 or 600x600 modular ceilings with LED modules	204
	<b>ARKTIK-E / ARKTIK-ME</b> Recessed luminaire for 625x625 or 600x600 modular ceilings with diffuser and indirect component, with RIDI LED modules	206
	<b>Luminaire system VENICE-E</b> Recessed light channel (support profile, gear tray, optical control, accessories) with RIDI LED modules / for RIDI TUBE lamps	210
	<b>RIDI Green Box LED – Complete package</b> Complete package of square louvre luminaires with integrated lighting management system including connecting accessories and RIDI TUBE lamp	215
	<b>EBRE-LED / EBRME-LED</b> Universal recessed and lay-in luminaires with RIDI LED modules, for 625x625 or 600x6000 modular ceilings	218
	<b>E-DUO</b> Universal recessed and lay-in luminaires for RIDI TUBE lamps, for 625x625 or 600x6000 modular ceilings	225
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	<b>ESLE-R / ESL-R</b> Refurbishment luminaires for mounting in existing luminaires or existing ceiling cut-outs, for RIDI TUBE lamps	238

Other recessed mounting luminaires with a protection rating of **IP54** and over are described in the chapter "Higher protection rating luminaires" from page 350.

## Flat recessed luminaire FPL, module 600

**Design:** Single LED recessed luminaire, low-profile design, protection rating IP40 for 600 modular ceilings. Illuminated from the edge by laterally mounted LED modules for distribution of the luminous flux. LED modules formed as linear circuit boards. Mid-Power LEDs for even illumination and maximum efficiency. Sturdy luminaire frame in extruded sectional aluminium, white powder coated (similar to RAL9016). The back is made of galvanised steel. Protection class II, driver supplied as a separate device. Operation of the LED modules using safety extra low voltage less than 60 Volts (SELV conformity).

Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

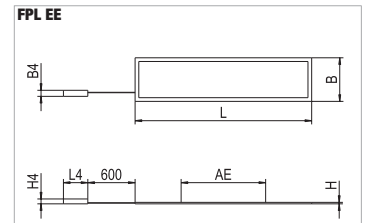
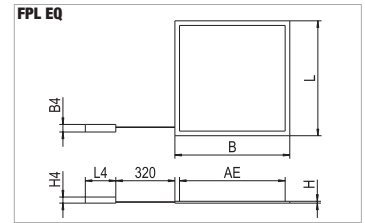
- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 50-60 Hz and internal connector block.

**Mounting:** Lay-in mounting in ceiling systems with visible support rails and laid-in ceiling panels. For lay-in mounting, no additional fixing accessories are required.

Pendant mounting with automatic wire clamps, wire cable d=1.2mm, L=1.5m (accessory, order separately).

Installation and attachment mounting with corresponding accessories.

**Note:** Connecting terminals for one cable, max. 1.5 mm<sup>2</sup>. For feed-through wiring from lamp to lamp, a conduit/junction box must be provided on site.



acc. to DIN EN 60598/VDE 0711

### FPL ... OS

Frame OS in extruded aluminium with lay-in opal panel in UV-stabilised PMMA. Panel in high-grade material with matt finish on both sides. Homogenous illumination without visible LED points.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	B	Dimens. [mm]				AE	Ceiling type	el. conv. Prod. code	dim. conv. DALI Prod. code
								H	L4	B4	H4				
FPL-EE 1195/4000-830 OS	2xLED-M 16 W	-tba-	-tba-	-tba-	830	1195	295	10	190	43	30	810	4	0822476	
FPL-EE 1195/4000-830 OS	2xLED-M 16 W	-tba-	-tba-	-tba-	830	1195	295	10	199	92	30	810	4		0832476
FPL-EE 1195/4000-840 OS	2xLED-M 16 W	-tba-	-tba-	-tba-	840	1195	295	10	190	43	30	810	4	0822464	
FPL-EE 1195/4000-840 OS	2xLED-M 16 W	-tba-	-tba-	-tba-	840	1195	295	10	199	92	30	810	4		0832464
FPL-EQ 595/4000-830 OS	2xLED-M 16 W	4000	38	105	830	595	595	10	190	43	30	505	4	0822472	
FPL-EQ 595/4000-830 OS	2xLED-M 16 W	4000	38	105	830	595	595	10	199	92	30	505	4		0832472
FPL-EQ 595/4000-840 OS	2xLED-M 16 W	4100	38	107	840	595	595	10	190	43	30	505	4	0822466	
FPL-EQ 595/4000-840 OS	2xLED-M 16 W	4100	38	107	840	595	595	10	199	92	30	505	4		0832466

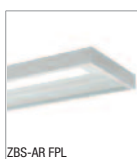
### FPL ... MPS

Frame MPS in extruded aluminium with lay-in structured panel in UV-stabilised PMMA to reduce glare for VDU workplace lighting. External structuring. Homogenous illumination without visible LED points.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	B	Dimens. [mm]				AE	Ceiling type	el. conv. Prod. code	dim. conv. DALI Prod. code
								H	L4	B4	H4				
FPL-EE 1195/4000-830 MPS	2xLED-M 16 W	4000	38	105	830	1195	295	10	190	43	30	810	4	0822477	
FPL-EE 1195/4000-830 MPS	2xLED-M 16 W	4000	38	105	830	1195	295	10	199	92	30	810	4		0832477
FPL-EE 1195/4000-840 MPS	2xLED-M 16 W	4100	38	107	840	1195	295	10	190	43	30	810	4	0822465	
FPL-EE 1195/4000-840 MPS	2xLED-M 16 W	4100	38	107	840	1195	295	10	199	92	30	810	4		0832465
FPL-EQ 595/4000-830 MPS	2xLED-M 16 W	4000	38	105	830	595	595	10	190	43	30	505	4	0822473	
FPL-EQ 595/4000-830 MPS	2xLED-M 16 W	4000	38	105	830	595	595	10	199	92	30	505	4		0832473
FPL-EQ 595/4000-840 MPS	2xLED-M 16 W	4100	38	107	840	595	595	10	190	43	30	505	4	0822467	
FPL-EQ 595/4000-840 MPS	2xLED-M 16 W	4100	38	107	840	595	595	10	199	92	30	505	4		0832467

## Accessories



ZBS-AR FPL

Model	Description	Prod. code
ZBS-AR FPL-EE 1195	Surface mounting frame for FPL-EE 1195	0209005
ZBS-AR FPL-EQ 595	Surface mounting frame for FPL-EQ 595	0208992
ZBS-ER FPL-EE 1195	Recessed mounting frame for FPL-EE 1195	0209002
ZBS-ER FPL-EQ 595	Recessed mounting frame for FPL-EQ 595	0208997
ZSP-FPL	Y' wire pendant FPL with ceiling fixture, 4xcarabiner, 1.5 m, (1/lum.)	0206909

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

## Flat recessed luminaire FPL, module 625

**Design:** Single LED recessed luminaire, low-profile design, protection rating IP40 for 625 modular ceilings. Illuminated from the edge by laterally mounted LED modules for distribution of the luminous flux. LED modules formed as linear circuit boards. Mid-Power LEDs for even illumination and maximum efficiency. Sturdy luminaire frame in extruded sectional aluminium, white powder coated (similar to RAL9016). The back is made of galvanised steel. Protection class II, driver supplied as a separate device. Operation of the LED modules using safety extra low voltage less than 60 Volts (SELV conformity).

Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

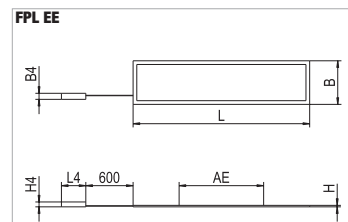
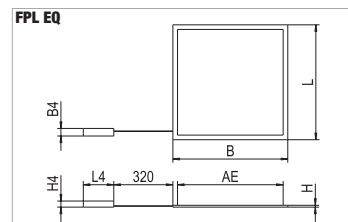
- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 50-60 Hz and internal connector block.

**Mounting:** Lay-in mounting in ceiling systems with visible support rails and laid-in ceiling panels. For lay-in mounting, no additional fixing accessories are required.

Pendant mounting with automatic wire clamps, wire cable d=1.2mm, L=1.5m (accessory, order separately).

Installation and attachment mounting with corresponding accessories.

**Note:** Connecting terminals for one cable, max. 1.5 mm<sup>2</sup>. For feed-through wiring from lamp to lamp, a conduit/junction box must be provided on site.



acc. to DIN EN 60598/VDE 0711

### FPL ... OS

Frame OS in extruded aluminium with lay-in opal panel in UV-stabilised PMMA. Panel in high-grade material with matt finish on both sides. Homogenous illumination without visible LED points.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]								Ceiling type	el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	L4	B4	H4	AE				
FPL-EE 1245/4000-830 OS	2xLED-M 16 W	-tba-	-tba-	-tba-	830	1245	310	10	190	43	30	840	4	0822478		
FPL-EE 1245/4000-830 OS	2xLED-M 16 W	-tba-	-tba-	-tba-	830	1245	310	10	199	92	30	840	4		0832478	
FPL-EE 1245/4000-840 OS	2xLED-M 16 W	-tba-	-tba-	-tba-	840	1245	310	10	190	43	30	840	4	0822468		
FPL-EE 1245/4000-840 OS	2xLED-M 16 W	-tba-	-tba-	-tba-	840	1245	310	10	199	92	30	840	4		0832468	
FPL-EQ 622/4000-830 OS	2xLED-M 16 W	4000	38	105	830	620	620	10	190	43	30	530	4	0822474		
FPL-EQ 622/4000-830 OS	2xLED-M 16 W	4000	38	105	830	620	620	10	199	92	30	530	4		0832474	
FPL-EQ 622/4000-840 OS	2xLED-M 16 W	4100	38	107	840	620	620	10	190	43	30	530	4	0822470		
FPL-EQ 622/4000-840 OS	2xLED-M 16 W	4100	38	107	840	620	620	10	199	92	30	530	4		0832470	

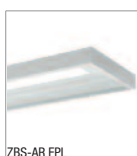
### FPL ... MPS

Frame MPS in extruded aluminium with lay-in structured panel in UV-stabilised PMMA to reduce glare for VDU workplace lighting. External structuring. Homogenous illumination without visible LED points.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]								Ceiling type	el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	L4	B4	H4	AE				
FPL-EE 1245/4000-830 MPS	2xLED-M 16 W	4000	38	105	830	1245	310	10	190	43	30	840	4	0822479		
FPL-EE 1245/4000-830 MPS	2xLED-M 16 W	4000	38	105	830	1245	310	10	199	92	30	840	4		0832479	
FPL-EE 1245/4000-840 MPS	2xLED-M 16 W	4100	38	107	840	1245	310	10	190	43	30	840	4	0822469		
FPL-EE 1245/4000-840 MPS	2xLED-M 16 W	4100	38	107	840	1245	310	10	199	92	30	840	4		0832469	
FPL-EQ 622/4000-830 MPS	2xLED-M 16 W	4000	38	105	830	620	620	10	190	43	30	530	4	0822475		
FPL-EQ 622/4000-830 MPS	2xLED-M 16 W	4000	38	105	830	620	620	10	199	92	30	530	4		0832475	
FPL-EQ 622/4000-840 MPS	2xLED-M 16 W	4100	38	107	840	620	620	10	190	43	30	530	4	0822471		
FPL-EQ 622/4000-840 MPS	2xLED-M 16 W	4100	38	107	840	620	620	10	199	92	30	530	4		0832471	

## Accessories



ZBS-AR FPL

Model	Description	Prod. code
ZBS-AR FPL-EE 1245	Surface mounting frame for FPL-EE 1245	0209004
ZBS-AR FPL-EQ 622	Surface mounting frame for FPL-EQ 622	0208991
ZBS-ER FPL-EE 1245	Recessed mounting frame for FPL-EE 1245	0209001
ZBS-ER FPL-EQ 622	Recessed mounting frame for FPL-EQ 622	0208996
ZSP-FPL	Y' wire pendant FPL with ceiling fixture, 4xcarabiner, 1.5 m, (1/lum.)	0206909

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

# ARKTIK-E/-S)-LED

## Recessed luminaire series ARKTIK-E-LED, ARKTIK-E-S-LED (modular 625x625)

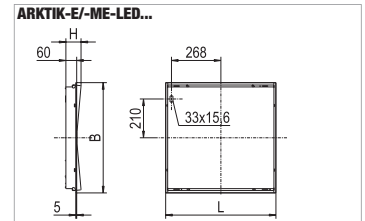
**Design:** LED recessed luminaire for modular ceilings 625 x 625 with RIDI LED modules. Stable luminaire housing made of white powder coated steel, colour similar to RAL9016. Frameless diffuser clips into the luminaire housing without the use of tools. RIDI-LED modules formed as a flat board. Mid power LEDs for even illumination and maximum efficiency. Total light flux of the LED modules 5200 lm. LED drivers prefitted in luminaire housing. Operation at safety extra-low voltage below 60 Volt (SELV-conformity). Protection rating IP40 on the room side and IP20 on the ceiling side.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), 3000-6500 Kelvin (830-865), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Mounting in different ceiling systems with the relevant fixing kit (accessory) or lay-in mounting in ceiling systems with visible support rails and laid-in ceiling panels. For lay-in mounting, no additional fixing accessories are required.



### Non-standard designs:

- Prefitting of emergency lighting elements
- Tunable white design
- Other light colours
- Variant with laid-in diffuser and 90mm high housing



### ARKTIK-E-LED

Diffuser direct and indirect beam with ceiling brightening, completely made of opal satinised UV-stabilised polycarbonate, translucent.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code	
						L	B	H	LE*	BE*			
ARKTIK-E-LED 5200-840	2xLED-M 14 W	4540	37	122	840	622	622	84	614	604	1 2 3 4	0822948	0832948

\* Ceiling cut-out



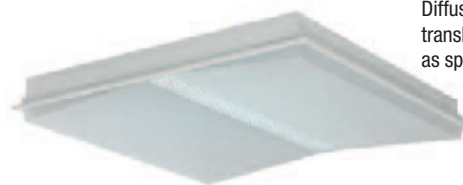
### ARKTIK-E-LED...-TW

Diffuser direct and indirect beam with ceiling brightening, completely made of opal satinised UV-stabilised polycarbonate, translucent.

Two DALI EVG ballasts for separate actuation of light colours 3000 and 6500 Kelvin. Colour temperature control on request.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code	
						L	B	H	LE*	BE*			
ARKTIK-E-LED 5200-TW-DA	2xLED-M 32 W	4540	37	122	830-865	622	622	84	614	604	1 2 3 4	0832960	0832960

\* Ceiling cut-out



### ARKTIK-E-S-LED

Diffuser direct and indirect beam with ceiling brightening, completely made of opal satinised UV-stabilised polycarbonate, translucent, with centrally mounted microprism panel made of UV-stabilised polycarbonate. LEDs in the prism area are visible as spots.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code	
						L	B	H	LE*	BE*			
ARKTIK-E-S-LED 5200-840	2xLED-M 14 W	4545	37	122	840	622	622	84	614	604	1 2 3 4	0822950	0832950

\* Ceiling cut-out

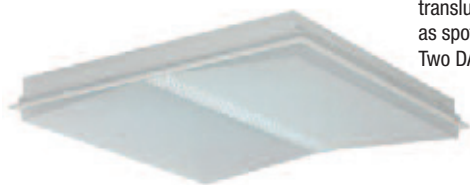
LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.



**ARKTIK-E-S-LED...-TW**

Diffuser direct and indirect beam with ceiling brightening, completely made of opal satinised UV-stabilised polycarbonate, translucent, with centrally mounted microprism panel made of UV-stabilised polycarbonate. LEDs in the prism area are visible as spots.

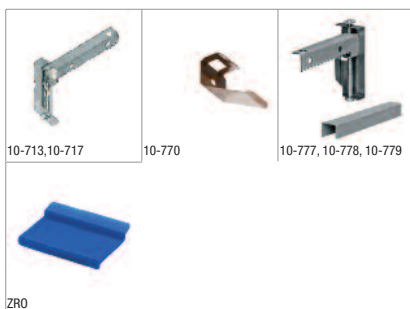
Two DALI EVG ballasts for separate actuation of light colours 3000 and 6500 Kelvin. Colour temperature control on request.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					Ceiling type	dim. conv. DALI Prod. code
						L	B	H	LE*	BE*		
ARKTIK-E-S-LED 5200-TW-DA	2xLED-M 32 W	4545	37	122	830-865	622	622	84	614	604	1 2 3 4	0832961

\* Ceiling cut-out

**Accessories**



Model	Description	Prod. code
10-713	Universal fixing kit, 23 to 55mm clamping thickness	0210713
10-717	Universal fixing kit, 45 to 80mm clamping thickness	0210717
10-770	Fixing clip EBR...clamping thickn. T16: 12-25mm, T26: 12-50mm	0210770
10-777	Fixing kit EBR... for Ecophon Focus Ds/Dg, height 14 mm	0210777
10-778	Fixing kit EBR... for e.g. OWA TECTA S31, height 19.5 mm	0210778
10-779	Fixing kit EBR... for Dipling KP, height 8 mm	0210779
ZRO	Frame opener	0204003



LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

# ARKTIK-ME-(S)-LED

## Recessed luminaire series ARKTIK-ME-LED, ARKTIK-ME-S-LED (modular 600x600)

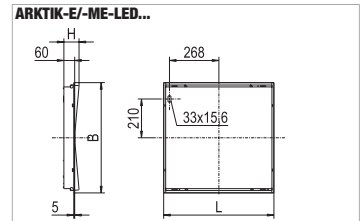
**Design:** LED recessed luminaire for modular ceilings 600 x 600. Stable luminaire housing made of white powder coated steel, colour similar to RAL9016. Frameless diffuser clips into the luminaire housing without the use of tools. RIDI-LED modules formed as a flat board. Mid power LEDs for even illumination and maximum efficiency. Total light flux of the LED modules 5200 lm. LED drivers prefitted in luminaire housing. Operation at safety extra-low voltage below 60 Volt (SELV-conformity). Protection rating IP40 on the room side and IP20 on the ceiling side.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), 3000-6500 Kelvin (830-865), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Mounting in different ceiling systems with the relevant fixing kit (accessory) or lay-in mounting in ceiling systems with visible support rails and laid-in ceiling panels. For lay-in mounting, no additional fixing accessories are required.



### Non-standard designs:

- Prefitting of emergency lighting elements
- Tunable white design
- Other light colours
- Variant with laid-in diffuser and 90mm high housing



### ARKTIK-ME-LED

Diffuser direct and indirect beam with ceiling brightening, completely made of opal satinised UV-stabilised polycarbonate, translucent.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					Ceiling type	el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	LE*	BE*			
ARKTIK-ME-LED 5200-840	2xLED-M 14 W	4404	37	119	840	597	597	84	589	579	1 2 3 4	0822949	0832949

\* Ceiling cut-out



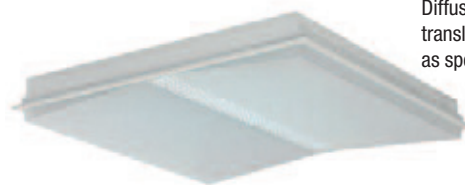
### ARKTIK-ME-LED...-TW

Diffuser direct and indirect beam with ceiling brightening, completely made of opal satinised UV-stabilised polycarbonate, translucent.

Two DALI EVG ballasts for separate actuation of light colours 3000 and 6500 Kelvin. Colour temperature control on request.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					Ceiling type	dim. conv. DALI Prod. code
						L	B	H	LE*	BE*		
ARKTIK-ME-LED 5200-TW-DA	2xLED-M 32 W	4404	37	119	830-865	597	597	84	589	579	1 2 3 4	0832962

\* Ceiling cut-out



### ARKTIK-ME-S-LED

Diffuser direct and indirect beam with ceiling brightening, completely made of opal satinised UV-stabilised polycarbonate, translucent, with centrally mounted microprism panel made of UV-stabilised polycarbonate. LEDs in the prism area are visible as spots.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					Ceiling type	el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	LE*	BE*			
ARKTIK-ME-S-LED 5200-840	2xLED-M 14 W	4410	37	119	840	597	597	84	589	579	1 2 3 4	0822951	0832951

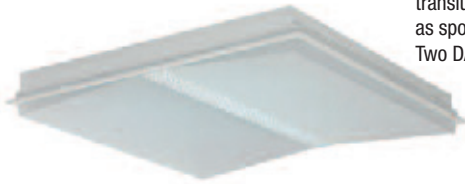
\* Ceiling cut-out

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

**ARKTIK-ME-S-LED...-TW**

Diffuser direct and indirect beam with ceiling brightening, completely made of opal satinised UV-stabilised polycarbonate, translucent, with centrally mounted microprism panel made of UV-stabilised polycarbonate. LEDs in the prism area are visible as spots.

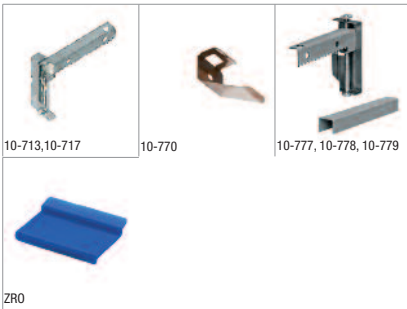
Two DALI EVG ballasts for separate actuation of light colours 3000 and 6500 Kelvin. Colour temperature control on request.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					Ceiling type	dim. conv. DALI Prod. code
						L	B	H	LE*	BE*		
ARKTIK-ME-S-LED 5200-TW-DA	2xLED-M 32 W	4410	37	119	830-865	597	597	84	589	579	1 2 3 4	0832963

\* Ceiling cut-out

**Accessories**

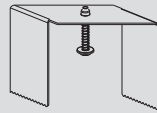


Model	Description	Prod. code
10-713	Universal fixing kit, 23 to 55mm clamping thickness	0210713
10-717	Universal fixing kit, 45 to 80mm clamping thickness	0210717
10-770	Fixing clip EBR...clamping thickn. T16: 12-25mm, T26: 12-50mm	0210770
10-777	Fixing kit EBR... for Ecophon Focus Ds/Dg, height 14 mm	0210777
10-778	Fixing kit EBR... for e.g. OWA TECTA S31, height 19.5 mm	0210778
10-779	Fixing kit EBR... for Dipling KP, height 8 mm	0210779
ZRO	Frame opener	0204003



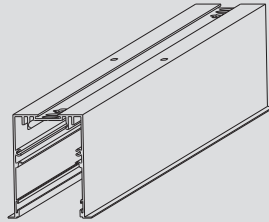
LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

## FIXING KITS



VENICE-E-DB

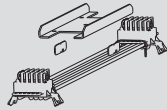
## CHANNEL



VENICE-E-F ...

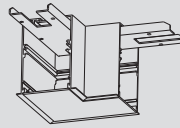
## PROFILE CONNECTORS

Straight connector:

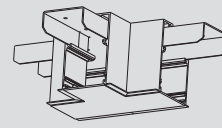


VENICE-TV

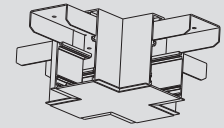
Connector for the creation of lighting constructs:



VENICE-E-VSL



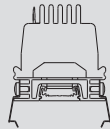
VENICE-E-VST



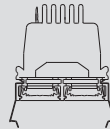
VENICE-E-VSK

## GEAR TRAYS

With LED linear modules:

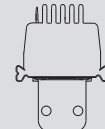


VENICE-G-F1...



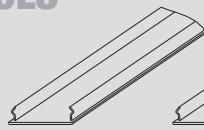
VENICE-G-F2...

For RIDI-TUBE lamp:

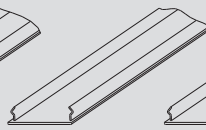


VENICE-G-R1...

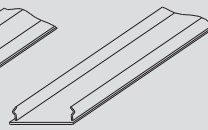
## OPTICAL CONTROLS



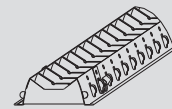
VENICE-ZAB



VENICE-ZAO



VENICE-ZMPS



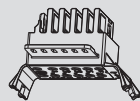
VENICE-SRM

## END CAPS

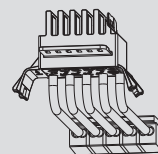


VENICE-EE

## MAINS CONNECTORS CONNECTING CABLES



VLNE-..S



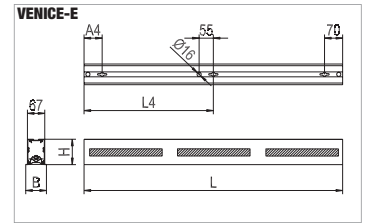
VLNE-..F

### VENICE-E-F recessed channel

**Design:** Recessed channel for direct luminaire made of extruded aluminium profile, natural anodised surface finish (-NE). Manufactured to accommodate the gear tray and VENICE modular system accessories. Aluminium channels are each available in a 1-, 2- or 3-length design. Can be used for VENICE products in protection rating IP20. Through wiring with flexible take-off 5 x 2.5 mm<sup>2</sup> and 6 x 1.5 mm<sup>2</sup> for control cable and two separate emergency lighting circuits.

**Installation:** Channel with keyholes for consistent mounting distances or mounting fixing kit and with a T-slot for accommodating lengthways-adjustable fastening elements. Narrow visible rim to cover the sawn ceiling aperture. L-shaped, T-shaped, and cross-shaped connectors can be delivered for VENICE products, see Accessories. For almost rimless mounting, the surface-mounting light channel VENICE-A can also be mounted and concreted in using a suitable fixing kit.

Connectors in L, T and cross shapes are available to create VENICE constructs, see accessories.



acc. to DIN EN 60598/VDE 0711

#### VENICE-E-F ...



Model	Description	Dimens. [mm]			el. conv. Prod. code
		L	B	H	
VENICE-E-F1X149-11-NE	Profile L=1488 / through wiring 11-core	1488	80	98	0528267AF
VENICE-E-F1X154-11-NE	Profile L=1188 / through wiring 11-core	1188	80	98	0528270AF
VENICE-E-F2X149-11-NE	Profile L=2974 / through wiring 11-core	2974	80	98	0528268AF
VENICE-E-F2X154-11-NE	Profile L=2374 / through wiring 11-core	2374	80	98	0528271AF
VENICE-E-F3X149-11-NE	Profile L=4460 / through wiring 11-core	4460	80	98	0528269AF
VENICE-E-F3X154-11-NE	Profile L=3560 / through wiring 11-core	3560	80	98	0528272AF

### VENICE-G-F gear tray LED with RIDI LED linear modules

**Design:** Gear tray VENICE-G-F... for direct luminaires. Recessed to the channel profile edge for installation of OS or MPS covers. Made of extruded aluminium, with powder-coated white finish similar to RAL9016 and RIDI LED modules with longitudinal optics made of extruded, UV-resistant PMMA, wide-beam light distribution for standardised illumination of the cover. RIDI LED linear modules with mid-power LEDs for optimum efficiency. SELV-compliant LED modules for optimal heat dissipation over the full area of the aluminium profile.

The gear trays can be mounted with spring clips anywhere on the support profile. Electrical adapter for flexible transmission of take-off into the channel profile. Phase selection via sliding contact. Mechanical coding to avoid improper installation (anti-rotation protection).

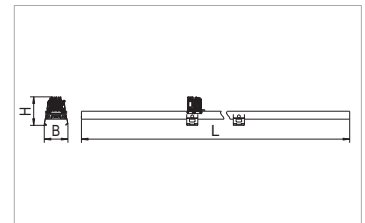
The LED modules are fitted with LEDs up to the ends of the gear trays, and no shadows are visible with continuous installation. The luminescence levels of the various lengths are practically identical, and the lengths can be mixed amongst each other with various row arrangements for the luminaires.

colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

#### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.

**Installation:** By means of spring clips in the aluminium profile without tools, independent contacting of the protective conductor.



acc. to DIN EN 60598/VDE 0711

#### VENICE-G-F ...B...

Linear lenses with broad-beam light distribution from clear, UV-resistant PMMA, integrated flush into the gear tray.



Model	Lamps	Luminous colour	Dimens. [mm]			el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H		
VENICE-G-F149-xxWS-480B830	1xLED-M 29 W	830	1483	58	78	0526109	0536109
VENICE-G-F149-xxWS-500B840	1xLED-M 29 W	840	1483	58	78	0526110	0536110
VENICE-G-F154-xxWS-380B830	1xLED-M 25 W	830	1183	58	78	0526107	0536107
VENICE-G-F154-xxWS-400B840	1xLED-M 25 W	840	1183	58	78	0526108	0536108
VENICE-G-F249-xxWS-1000B840	2xLED-M 29 W	840	1483	58	78	0526121	0536121
VENICE-G-F249-xxWS-960B830	2xLED-M 29 W	830	1483	58	78	0526120	0536120
VENICE-G-F254-xxWS-740B830	2xLED-M 25 W	830	1183	58	78	0526118	0536118
VENICE-G-F254-xxWS-800B840	2xLED-M 25 W	840	1183	58	78	0526119	0536119

# VENICE gear trays / covers

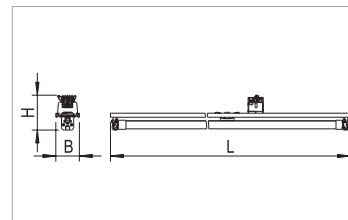
## VENICE-G-R for RIDI-TUBE lamp

**Design:** Profiled LED gear tray made of galvanised steel plate, coated in white. For RIDI-TUBE lights (ordered separately). Plastic-coated, quick-release catch for fastening to the VENICE channel. The gear trays can be mounted anywhere on the channel. Electrical adapter for flexible transmission of take-off into the channel. Phase selection via sliding contact. Mechanical coding to avoid improper installation (anti-rotation protection).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz, wired to electrical adapter with phase selection by means of sliding contact. Suitable for direct voltage operation and use in central battery systems.



acc. to DIN EN 60598/VDE 0711



### VENICE-G-R ...

Gear tray for installation in VENICE profile. Recommended cover for RIDI-TUBE light: matt.

Model	Lamps max.	R-TUBE Category	Dimens. (mm)			el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H		
VENICE-G-R1X115/30xx	1xR-TUBE 30 W	F	1186	64	74	0526116	0536116
VENICE-G-R1X145/35xx	1xR-TUBE 35 W	H, I	1486	64	74	0526117	0536117

## Cover VENICE-Z..

**Design:** Luminaire cover for clipping into the aluminium VENICE-A-F ... and VENICE-E-F... support profile



### VENICE-ZAB

Luminaire blank cover made of aluminium extruded profile. Surface natural anodized.

The covers are available for the lengths 28/54 watt or 35/49/80 watt and in single, double or triple length versions respectively.

Model	Description	L	Prod. code
VENICE-ZAB F1X149 NE	Luminaire cover natural anodised aluminium F1X149, 1-length	1487	0208927AF
VENICE-ZAB F1X154 NE	Luminaire cover natural anodised aluminium F1X154, 1-length	1187	0208930AF
VENICE-ZAB F2X149 NE	Luminaire cover natural anodised aluminium F2X149, 2-length	2973	0208928AF
VENICE-ZAB F2X154 NE	Luminaire cover natural anodised aluminium F2X154, 2-length	2375	0208931AF
VENICE-ZAB F3X149 NE	Luminaire cover natural anodised aluminium F3X149, 3-length	4459	0208929AF
VENICE-ZAB F3X154 NE	Luminaire cover natural anodised aluminium F3X154, 3-length	3559	0208932AF



### VENICE-ZAO

Luminaire cover made of opal, UV-resistant PMMA with a satin-finish surface.

The covers are available for the lengths 28/54 watt or 35/49/80 watt and in single, double or triple length versions respectively.

Model	Description	L	Prod. code
VENICE-ZAO F1X149	Luminaire cover opal F1X149 1-length, PMMA	1484	0208915
VENICE-ZAO F1X154	Luminaire cover opal F1X154 1-length, PMMA	1184	0208918
VENICE-ZAO F2X149	Luminaire cover opal F2X149 2-length, PMMA	2972	0208916
VENICE-ZAO F2X154	Luminaire cover opal F2X154 2-length, PMMA	2373	0208919
VENICE-ZAO F3X149	Luminaire cover opal F3X149 3-length, PMMA	4456	0208917
VENICE-ZAO F3X154	Luminaire cover opal F3X154 3-length, PMMA	3557	0208920



### VENICE-ZMPS

Transparent co-extruded plastic cover made of clear UV-resistant PMMA with external micro-prismatic structure. Internal longitudinal ribs for locking made of impact-resistant, UV-resistant PMMA, opaquely coloured to prevent unwanted light reflections.

Model	Description	L	Prod. code
VENICE-ZMPS F1X149	Luminaire cover MPS F1X149, 1-length, PMMA	1484	0208921
VENICE-ZMPS F1X154	Luminaire cover MPS F1X154, 1-length, PMMA	1184	0208924
VENICE-ZMPS F2X149	Luminaire cover MPS F2X149, 2-length, PMMA	2972	0208922
VENICE-ZMPS F2X154	Luminaire cover MPS F2X154, 2-length, PMMA	2373	0208925
VENICE-ZMPS F3X149	Luminaire cover MPS F3X149, 3-length, PMMA	4456	0208923
VENICE-ZMPS F3X154	Luminaire cover MPS F3X154, 3-length, PMMA	3557	0208926

**Parabolic mirror louvre VENICE-SRM-R**

**Design:** Parabolic reflector louvre for clipping into the VENICE-A-F... and VENICE-E-F.... support profile Can be used in connection with VENICE-G-R gear tray. One parabolic louvre is required for each gear tray.



**VENICE-SRM**

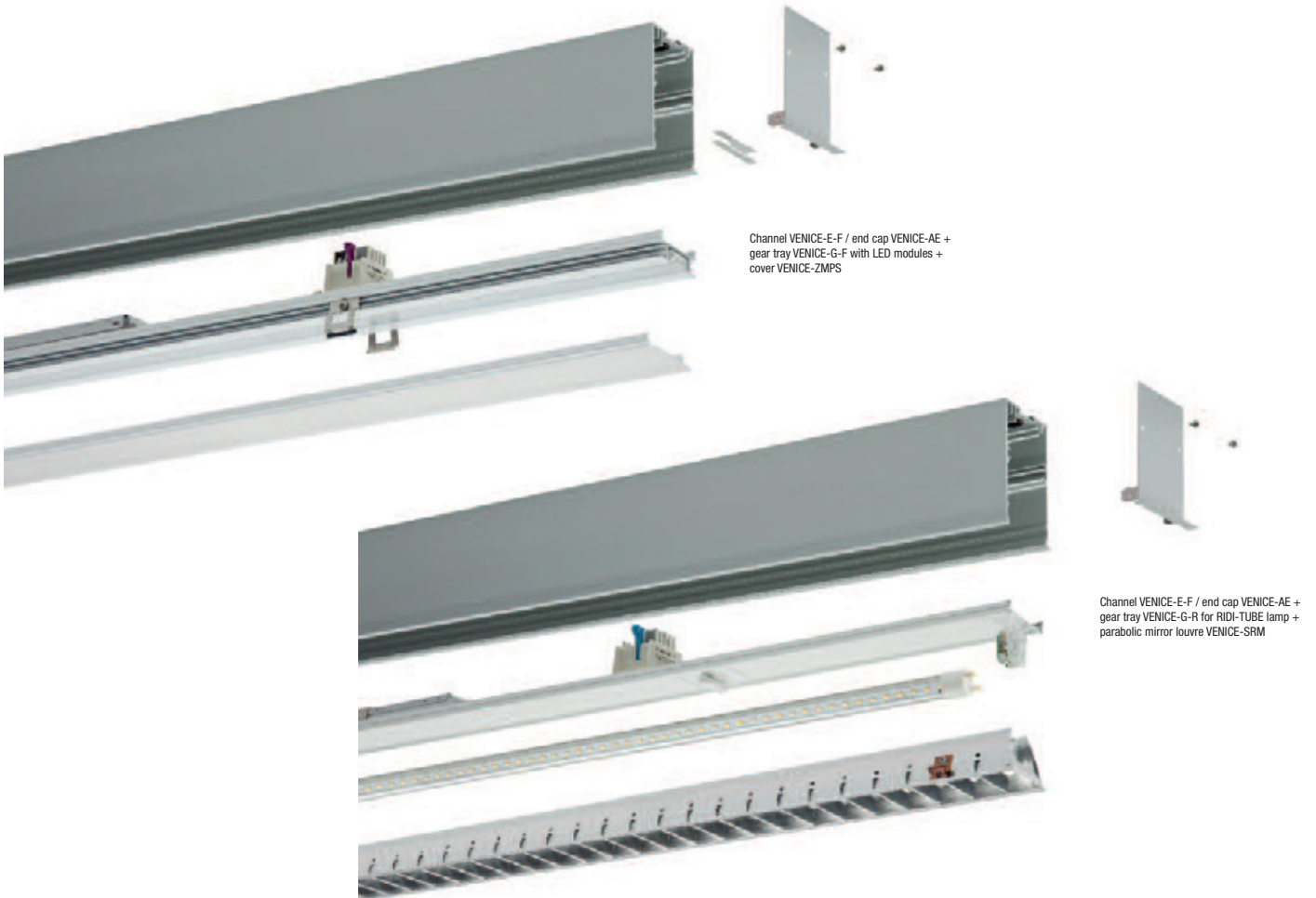
Parabolic mirror louvre constructed of silk matt super-purity anodised aluminium with silver coating

Model	Description	L	Prod. code
VENICE-SRM-R1X115	Parabolic mirror louvre matt anodised R-TUBE 115	1186	0208933
VENICE-SRM-R1X145	Parabolic mirror louvre matt anodised R-TUBE 145	1486	0208934

**Accessories for VENICE-E...**

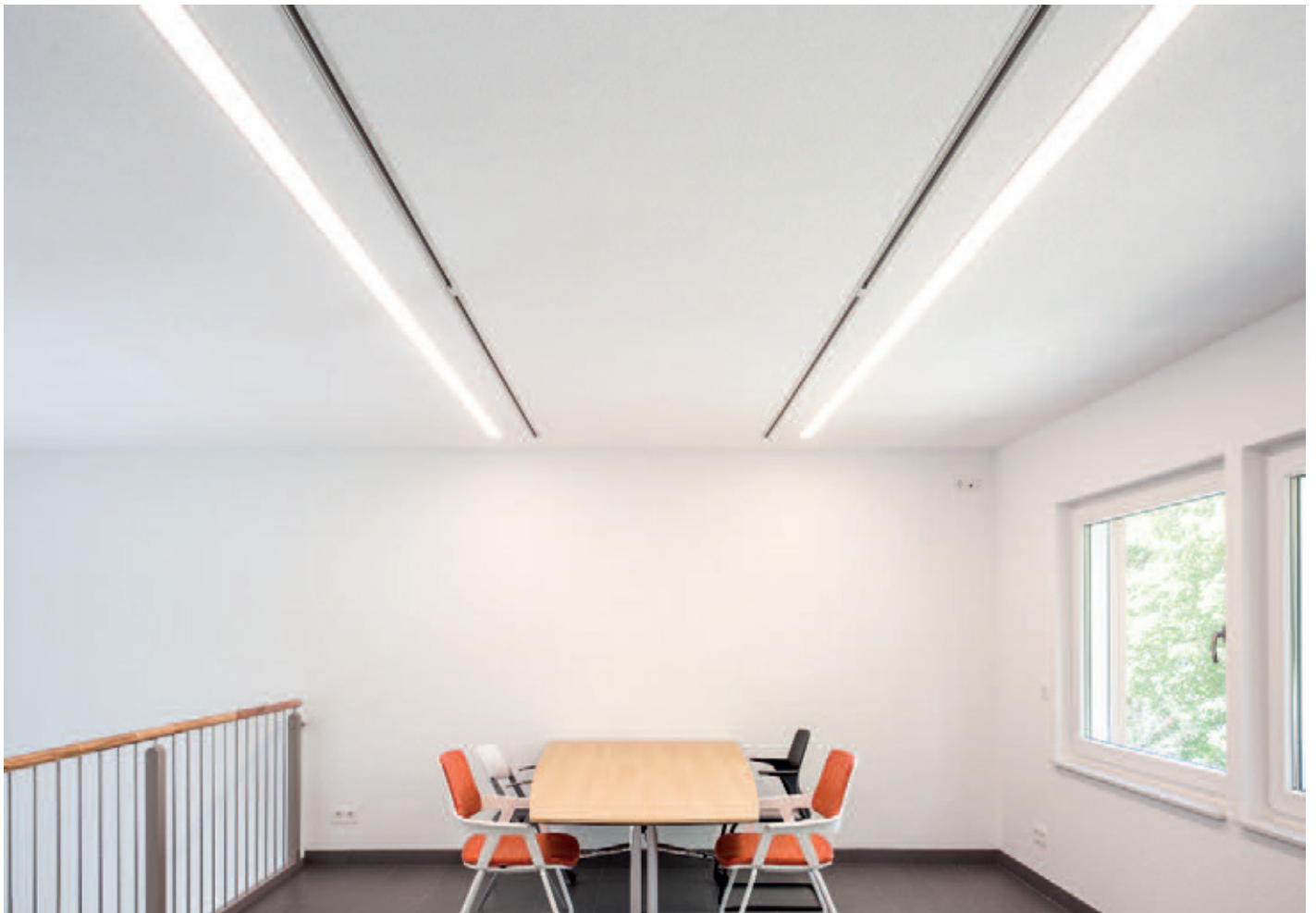


Model	Description	Prod. code
VENICE-A/E BET 128/54	Concrete casting b. VENICE-A/E .54 plaster/concrete ceilings	1208050
VENICE-A/E BET 135/49/80	Concrete casting b. VENICE-A/E .80 plaster/concrete ceilings	1208051
VENICE-E-DB	Recessed ceiling mounting kit for VENICE-E, 1 pc	1208008
VENICE-E-VSK-5	X-sh. lum. connector for VENICE-E, 5-pin anodised, 1 pc	1208062AF
VENICE-E-VSK-7	X-sh. lum. connector for VENICE-E, 7-pin, anodised, 1 pc	0208413AF
VENICE-E-VSL-5	L-sh. lum. connector for VENICE-E, 5-pin, anodised, 1 pc	1208060AF
VENICE-E-VSL-7	L-sh. lum. connector for VENICE-E, 7-pin, anodised, 1 pc	0208414AF
VENICE-E-VST-5	T-sh. lum. connector for VENICE-E, 5-pin, anodised, 1 pc	1208061AF
VENICE-E-VST-7	T-sh. lum. connector for VENICE-E, 7-pin, anodised, 1 pc	0208415AF
VENICE-EE NE	End cap for VENICE-E, natural anodized, 1 pc	1208006AF
VENICE-GE-LED	Gear tray release VENICE-A-F and VENICE-E-F	0208821
VENICE-TV-5	Trunking connector for 5-pin wiring, 1 pc	1208009
VENICE-TV-7	Trunking connector for 7-pin wiring, 1 pc.	1208063
VLNE-11F	Mains connector 11-core, stranded IP20/54, 1 pc	1207049
VLNE-11S	Mains connector 11-core, single wire IP20/54, 1 pc	1207043
VLNE-5F	Mains connector 5-core, stranded IP20/54, 1 pc	1207047
VLNE-5S	Mains connector 5-core, single wire IP20/54, 1 pc	1207041
VLNE-7F	Mains connector 7-core, stranded IP20/54, 1 pc	1207048
VLNE-7S	Mains connector 7-core, single wire IP20/54, 1 pc	1207042
ZRO	Frame opener	0204003



Channel VENICE-E-F / end cap VENICE-AE + gear tray VENICE-G-F with LED modules + cover VENICE-ZMPS

Channel VENICE-E-F / end cap VENICE-AE + gear tray VENICE-G-R for RIDI-TUBE lamp + parabolic mirror louvre VENICE-SRM





## RIDI-GREEN-BOX-LED complete package (modular 600/625) with lamp RIDI-TUBE

**Design:** Complete package of square luminaires for modular ceilings 600 x 600 (EBRME) and 625 x 625 (EBRE), for renovation of offices in 2-axis (4-luminaire box set), 3-axis (6-luminaire box set) and 4-axis (8-luminaire box set). Master luminaire with prefitted 2-channel daylight presence sensor and 3, 5 or 7 slave luminaires. Linect plug-in system with connecting cables 4 metres, 5x1.5mm<sup>2</sup> including plug and socket components. Pre-fitted LED lamp RIDI-TUBE with satinised cover in PMMA. Luminaires in white coated steel (similar to RAL9016), with low rim. Simple lay-in mounting in system ceilings visible T-bars. Louvre fitted with invisible spring clips, hinging down on both sides with automatic connection to the earth conductor.

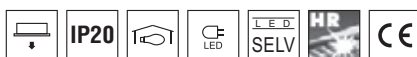
Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

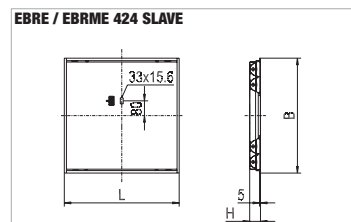
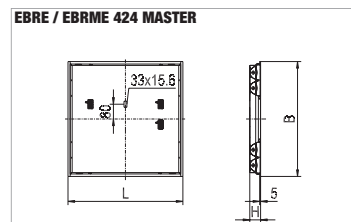
### Electrical versions:

- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. 1-lamp luminaires with and internal connector block 3x2.5mm<sup>2</sup>, multiple-lamp luminaires with internal Linect connector block 5x2.5mm<sup>2</sup>, conventional connection from inside or from outside with Linect accessories.

**Mounting:** Simple lay-in mounting in system ceilings with visible T profile. Recessed mounting in sawn ceiling openings with fixing kit (accessory).



acc. to DIN EN 60598/VDE 0711



### G-BOX ..EBRE-R424 ... SM

Recessed LED luminaires for modular ceilings 625 x 625. With 4 RIDI-TUBES, light colour 840, satinised cover. Louvre in high-reflectance, silk matt anodised super-purity aluminium with silver coating.

Model	Lamps max.	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					Ceiling type	dim. conv. DALI Prod. code
						L	B	H	LE*	BE*		
G-BOX 4XEBrE-R424/760-840-SM	16xR-TUBE 15 W	6612	64	103	840	622	622	59	604	604	1 2 3 4	0860356
G-BOX 6XEBrE-R424/760-840-SM	24xR-TUBE 15 W	6612	64	103	840	622	622	59	604	604	1 2 3 4	0860358
G-BOX 8XEBrE-R424/760-840-SM	32xR-TUBE 15 W	6612	64	103	840	622	622	59	604	604	1 2 3 4	0860360

\* Ceiling cut-out



### G-BOX ..EBRME-R424 ... SM

Recessed LED luminaires for modular ceilings 600 x 600. With 4 RIDI-TUBES, light colour 840, satinised cover. Louvre in high-reflectance, silk matt anodised super-purity aluminium with silver coating.

Model	Lamps max.	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					Ceiling type	dim. conv. DALI Prod. code
						L	B	H	LE*	BE*		
G-BOX 4XEBrME-R424/760-840-SM	16xR-TUBE 15 W	6475	64	101	840	597	597	59	579	579	1 2 3 4	0860361
G-BOX 6XEBrME-R424/760-840-SM	24xR-TUBE 15 W	6475	64	101	840	597	597	59	579	579	1 2 3 4	0860363
G-BOX 8XEBrME-R424/760-840-SM	32xR-TUBE 15 W	6475	64	101	840	597	597	59	579	579	1 2 3 4	0860365

\* Ceiling cut-out

## Zubehör



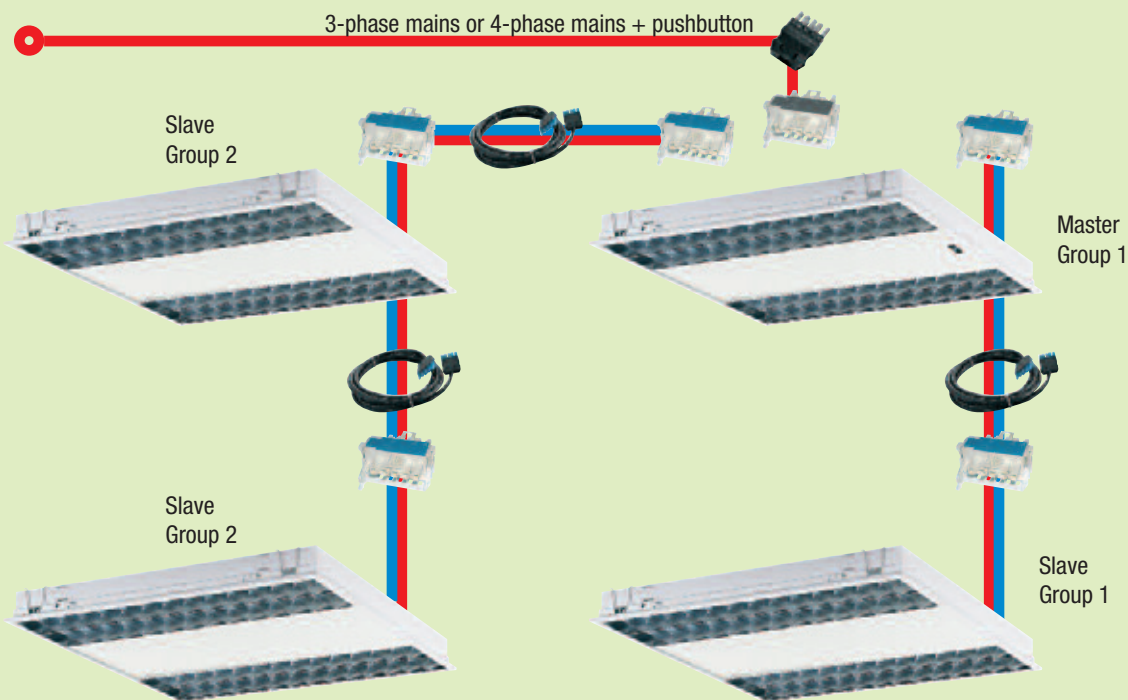
Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-713	Universal fixing kit, 23 to 55mm clamping thickness	0210713
10-717	Universal fixing kit, 45 to 80mm clamping thickness	0210717
10-770	Fixing clip EBR...clamping thicken. T16: 12-25mm, T26: 12-50mm	0210770
10-777	Fixing kit EBR... for Ecophon Focus Ds/Dg, height 14 mm	0210777
10-778	Fixing kit EBR... for e.g. OWA TECTA S31, height 19.5 mm	0210778
10-779	Fixing kit EBR... for Dipling KP, height 8 mm	0210779
DALI-AL-FB	DALI ActiLume infrared remote control for programming	0208514
DALI-AL-PIR	Extension sensor for motion detection, max. height 3.5 m	0208308
ZADV-WINSTA-5-POL-DA-2M	Exten. WAGO-WINSTA, pl/skt, 5-core L1-N-SL-DA-DA, 2m, max. 10A	0217870
ZADV-WINSTA-5-POL-DA-4M	Exten. WAGO-WINSTA, pl/skt, 5-core L1-N-SL-DA-DA, 4m, max. 10A	0217869
ZEL-BU-WINSTA-5-POL-DA	Socket part WAGO-WINSTA 5-pin, DALI, blue, L1-N-SL-DA-DA, 1 pc.	0217872
ZEL-ST-WINSTA-5-POL-DA	Plug part WAGO-WINSTA 5-pin, DALI, blue, L1-N-SL-DA-DA, 1 pc.	0217871
ZEL-TV-LINECT-WINSTA-5-POL-DA	T-distributor LINECT-WINSTA 5-pin, DALI blue, L1-N-SL-DA-DA, 1 pc.	0217873

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

# RIDI Green Box

## THE COMPLETE ANSWER:

Example: 4 luminaire box set



socket components plug components  
**SLAVE LUMINAIRE** presence & daylight sensor  
 connecting cables **MASTER LUMINAIRE**  
 prefitted lamps

- Also available: box sets of 6 or 8 luminaires
- Lamps RIDI-TUBE included
- Highly efficient louvre materials
- Equipped with a presence and daylight sensor
- Energy saving potential of up to 75%

**RIDI Green Box:**  
 Order, unpack, assemble – the easy way  
 to shed a little light!

## RIDI-GREEN-BOX-LED E-DUO complete package (modular 600/625) with lamp RIDI-TUBE

**Design:** Complete package of square luminaires for modular ceilings 600 x 600 (EBRME) and 625 x 625 (EBRE), for renovation of offices in 2-axis (4-luminaire box set), 3-axis (6-luminaire box set) and 4-axis (8-luminaire box set). Master luminaire with prefitted 2-channel daylight presence sensor and 3, 5 or 7 slave luminaires. Linect plug-in system with connecting cables 4 metres, 5x1.5mm<sup>2</sup> including plug and socket components. Pre-fitted LED lamp RIDI-TUBE with satinised cover in PMMA. Luminaires in white coated steel (similar to RAL9016), with low rim. Simple lay-in mounting in system ceilings visible T-bars. Louvre fitted with invisible spring clips, hinging down on both sides with automatic connection to the earth conductor.

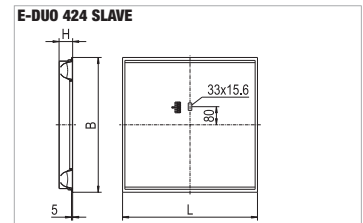
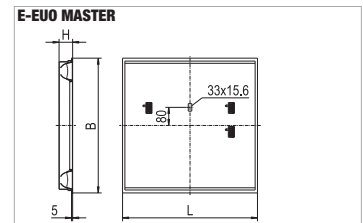
Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. 1-lamp luminaires with and internal connector block 3x2.5mm<sup>2</sup>, multiple-lamp luminaires with internal Linect connector block 5x2.5mm<sup>2</sup>, conventional connection from inside or from outside with Linect accessories.

**Mounting:** Simple lay-in mounting in system ceilings with visible T profile. Recessed mounting in sawn ceiling openings with fixing kit (accessory).



acc. to DIN EN 60598/VDE 0711



### G-BOX ..EBRE-R...-2 SM

Recessed LED luminaires for modular ceilings 625 x 625. With 2 RIDI-TUBES, satinised cover. Louvre in high-reflectance, silk matt anodised super-purity aluminium with silver coating.

Model	Lamps max.	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					Ceiling type	dim. conv. DALI Prod. code
						L	B	H	LE*	BE*		
G-BOX 4XEBrE-R4X055-2/20SM840	8xR-TUBE 16 W	4000	43	93	840	622	622	60	604	604	1 2 3 4	0860600
G-BOX 6XEBrE-R4X055-2/20SM840	12xR-TUBE 16 W	4000	43	93	840	622	622	60	604	604	1 2 3 4	0860602
G-BOX 8XEBrE-R4X055-2/20SM840	16xR-TUBE 16 W	4000	43	93	840	622	622	60	604	604	1 2 3 4	0860604

\* Ceiling cut-out



### G-BOX ..EBRME-R...-2 SM

Recessed LED luminaires for modular ceilings 600 x 600. With 2 RIDI-TUBES, satinised cover. Louvre in high-reflectance, silk matt anodised super-purity aluminium with silver coating.

Model	Lamps max.	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					Ceiling type	dim. conv. DALI Prod. code
						L	B	H	LE*	BE*		
G-BOX 4XEBrME-R4X055-2/20SM840	8xR-TUBE 16 W	4000	43	93	840	597	597	60	579	579	1 2 3 4	0860601
G-BOX 6XEBrME-R4X055-2/20SM840	12xR-TUBE 16 W	4000	43	93	840	597	597	60	579	579	1 2 3 4	0860603
G-BOX 8XEBrME-R4X055-2/20SM840	16xR-TUBE 16 W	4000	43	93	840	597	597	60	579	579	1 2 3 4	0860605

\* Ceiling cut-out

## Accessories

Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-713	Universal fixing kit, 23 to 55mm clamping thickness	0210713
10-717	Universal fixing kit, 45 to 80mm clamping thickness	0210717
10-770	Fixing clip EBR...clamping thicken. T16: 12-25mm, T26: 12-50mm	0210770
10-777	Fixing kit EBR... for Ecophon Focus Ds/Dg, height 14 mm	0210777
10-778	Fixing kit EBR... for e.g. OWA TECTA S31, height 19.5 mm	0210778
10-779	Fixing kit EBR... for Dipling KP, height 8 mm	0210779
DALI-AL-FB	DALI ActiLume infrared remote control for programming	0208514
DALI-AL-PIR	Extension sensor for motion detection, max. height 3.5 m	0208308
ZADV-WINSTA-5-POL-DA-2M	Exten. WAGO-WINSTA, pl/skt, 5-core L1-N-SL-DA-DA, 2m, max. 10A	0217870
ZADV-WINSTA-5-POL-DA-4M	Exten. WAGO-WINSTA, pl/skt, 5-core L1-N-SL-DA-DA, 4m, max. 10A	0217869
ZEL-BU-WINSTA-5-POL-DA	Socket part WAGO-WINSTA 5-pin, DALI, blue, L1-N-SL-DA-DA, 1 pc.	0217872
ZEL-ST-WINSTA-5-POL-DA	Plug part WAGO-WINSTA 5-pin, DALI, blue, L1-N-SL-DA-DA, 1 pc.	0217871
ZEL-TV-LINECT-WINSTA-5-POL-DA	T-distributor LINECT-WINSTA 5-pin, DALI blue, L1-N-SL-DA-DA, 1 pc.	0217873

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

## Recessed luminaire series EBRE-LED (modular 625x625)

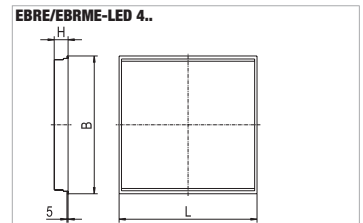
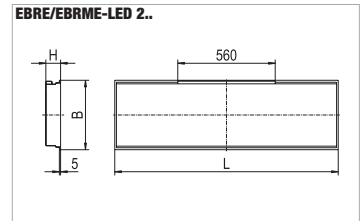
**Design:** Recessed single LED luminaire for modular ceilings 625 x 625. Stable luminaire housing in white powder-coated steel (similar to RAL9016). Diffuser held in the luminaire housing with spring catches, hinging down on both sides with automatic connection to the earth conductor. LED module formed as a circuit board. Mid-power LEDs ensure even illumination and maximum efficiency. Total luminous flux of the LED modules 2500 - 5200 lm. LED driver prefitted in luminaire housing. Operation at safety extra-low voltage below 60 Volt (SELV-conformity).

Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), 3000-6500 Kelvin (830-865), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Recessed mounting in different ceiling systems with suitable fixing kit, or lay-in mounting in ceiling systems with visible support rails and laid-in ceiling panels. For lay-in mounting, no additional fixing accessories are required.



### Non-standard designs:

- Designs with toughened safety glass panel
- Mounting of emergency light elements
- Other colour temperatures

EBRE-LED 236/... OS



EBRE-LED 418/... OS



### EBRE-LED ... OS

Protection rating similar to IP40 on the room side, IP 20 on the ceiling side. Frame OS in extruded aluminium with inlaid opal glass panel in UV-stabilised PMMA. Panel in high-grade material with matt finish on both sides, high transmission of 72%. Homogenous lighting without visible LED spots.

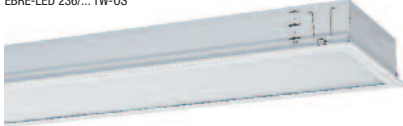
#### Note on "Food Hygiene Act":

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]				LE*	BE*	el. conv. Prod. code	dim. conv. DALI Prod. code
							B	H	Ceiling type					
EBRE-LED 236/2500-830 OS	2xLED-M 8 W	1938	16	121	830	1247	310	90	1229	292	1 2 4 6		0822855	0832855
EBRE-LED 236/2700-840 OS	2xLED-M 7 W	2093	16	130	840	1247	310	90	1229	292	1 2 4 6		0822839	0832839
EBRE-LED 236/5000-830 OS	2xLED-M 15 W	3875	32	121	830	1247	310	90	1229	292	1 2 4 6		0822851	0832851
EBRE-LED 236/5200-840 OS	2xLED-M 14 W	4030	32	125	840	1247	310	90	1229	292	1 2 4 6		0822816	0832816
EBRE-LED 418/2500-830 OS	2xLED-M 8 W	2018	16	126	830	622	622	90	604	604	1 2 3 4		0822859	0832859
EBRE-LED 418/2700-840 OS	2xLED-M 7 W	2179	16	136	840	622	622	90	604	604	1 2 3 4		0822835	0832835
EBRE-LED 418/5000-830 OS	2xLED-M 15 W	4035	32	126	830	622	622	90	604	604	1 2 3 4		0822833	0832833
EBRE-LED 418/5200-840 OS	2xLED-M 14 W	4196	32	131	840	622	622	90	604	604	1 2 3 4		0822828	0832828

\* Ceiling cut-out

EBRE-LED 236/... TW-OS



EBRE-LED 418/... TW-OS



### EBRE-LED ... TW-OS

Protection rating similar to IP40 on the room side, IP 20 on the ceiling side. Frame OS made of extruded aluminium with inlaid opal acrylic panel in UV-stabilised PMMA. Panel in high-grade material with matt finish on both sides, high transmission of 72%. Homogenous lighting without visible LED spots. Two DALI EVG ballasts for separate actuation of light colours 3000 and 6500 Kelvin. Colour temperature control on request.

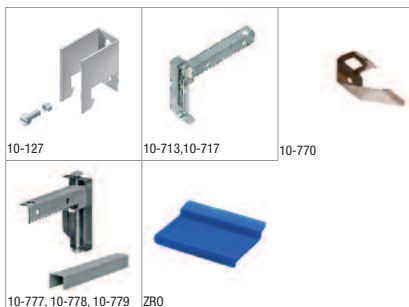
#### Note on "Food Hygiene Act":

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Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]				LE*	BE*	el. conv. Prod. code	dim. conv. DALI Prod. code
							B	H	Ceiling type					
EBRE-LED 236/830-865 TW-OS	2xLED-M 36 W	3875	32	121	830-865	1247	310	90	1229	292	1 2 4 6		0832882	
EBRE-LED 418/830-865 TW-OS	2xLED-M 32 W	4196	32	131	830-865	622	622	90	604	604	1 2 3 4		0832880	

\* Ceiling cut-out

## Accessories



Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-713	Universal fixing kit, 23 to 55mm clamping thickness	0210713
10-717	Universal fixing kit, 45 to 80mm clamping thickness	0210717
10-770	Fixing clip EBR...clamping thickn. T16: 12-25mm, T26: 12-50mm	0210770
10-777	Fixing kit EBR... for Ecophon Focus Ds/Dg, height 14 mm	0210777
10-778	Fixing kit EBR... for e.g. OWA TECTA S31, height 19.5 mm	0210778
10-779	Fixing kit EBR... for Dipling KP, height 8 mm	0210779
ZRO	Frame opener	0204003

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

## Recessed luminaire series EBRME-LED (modular 600x600)

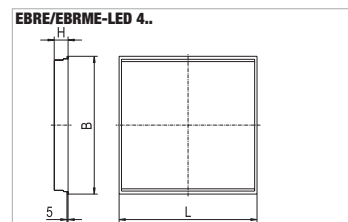
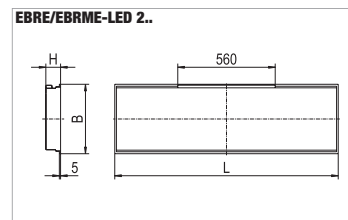
**Design:** Recessed single LED luminaire for modular ceilings 600 x 600. Stable luminaire housing in white powder-coated steel (similar to RAL9016). Diffuser held in the luminaire housing with spring catches, hinges down on both sides with automatic connection to the earth conductor. LED module formed as a circuit board. Mid-power LEDs ensure even illumination and maximum efficiency. Total luminous flux of the LED modules 2500 - 5200 lm. LED driver prefitted in luminaire housing. Operation at safety extra-low voltage below 60 Volt (SELV-conformity).

Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), 3000-6500 Kelvin (830-865), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Recessed mounting in different ceiling systems with suitable fixing kit, or lay-in mounting in ceiling systems with visible support rails and laid-in ceiling panels. For lay-in mounting, no additional fixing accessories are required.



### Non-standard designs:

- Designs with toughened safety glass panel
- Mounting of emergency light elements
- Other colour temperatures

EBRME-LED 236/... OS



EBRME-LED 418/... OS



### EBRME-LED ... OS

Protection rating similar to IP40 on the room side, IP 20 on the ceiling side. Frame OS in extruded aluminium with inlaid opal glass panel in UV-stabilised PMMA. Panel in high-grade material with matt finish on both sides, high transmission of 72%. Homogenous lighting without visible LED spots.

#### Note on "Food Hygiene Act":

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code	
						L	B	H	LE*	BE*			
EBRME-LED 236/2500-830 OS	2xLED-M 8 W	1880	16	117	830	1197	297	90	1179	279	1 2 4 6	0822864	0832864
EBRME-LED 236/2700-840 OS	2xLED-M 7 W	2030	16	126	840	1197	297	90	1179	279	1 2 4 6	0822843	0832843
EBRME-LED 236/5000-830 OS	2xLED-M 15 W	3760	32	117	830	1197	297	90	1179	279	1 2 4 6	0822868	0832868
EBRME-LED 236/5200-840 OS	2xLED-M 14 W	3910	32	122	840	1197	297	90	1179	279	1 2 4 6	0822820	0832820
EBRME-LED 418/2500-830 OS	2xLED-M 8 W	1958	16	122	830	597	597	90	579	579	1 2 3 4	0822872	0832872
EBRME-LED 418/2700-840 OS	2xLED-M 7 W	2114	16	132	840	597	597	90	579	579	1 2 3 4	0822847	0832847
EBRME-LED 418/5000-830 OS	2xLED-M 15 W	3915	32	122	830	597	597	90	579	579	1 2 3 4	0822876	0832876
EBRME-LED 418/5200-840 OS	2xLED-M 14 W	4072	32	127	840	597	597	90	579	579	1 2 3 4	0822831	0832831

\* Ceiling cut-out

EBRME-LED 236/... TW-OS



EBRME-LED 418/... TW-OS



### EBRME-LED ... TW-OS

Protection rating similar to IP40 on the room side, IP 20 on the ceiling side. Frame OS made of extruded aluminium with inlaid opal acrylic panel in UV-stabilised PMMA. Panel in high-grade material with matt finish on both sides, high transmission of 72%. Homogenous lighting without visible LED spots. Two DALI EVG ballasts for separate actuation of light colours 3000 and 6500 Kelvin. Colour temperature control on request.

#### Note on "Food Hygiene Act":

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	LE*	BE*		
EBRME-LED 236/830-865 TW-OS	2xLED-M 36 W	3760	32	117	830-865	1197	297	90	1179	279	1 2 4 6	0832883
EBRME-LED 418/830-865 TW-OS	2xLED-M 28 W	3915	32	122	830-865	597	597	90	579	579	1 2 3 4	0832881

\* Ceiling cut-out

## Accessories



Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-713	Universal fixing kit, 23 to 55mm clamping thickness	0210713
10-717	Universal fixing kit, 45 to 80mm clamping thickness	0210717
10-770	Fixing clip EBR...clamping thickn. T16: 12-25mm, T26: 12-50mm	0210770
10-777	Fixing kit EBR... for Ecophon Focus Ds/Dg, height 14 mm	0210777
10-778	Fixing kit EBR... for e.g. OWA TECTA S31, height 19.5 mm	0210778
10-779	Fixing kit EBR... for Dipling KP, height 8 mm	0210779
ZRO	Frame opener	0204003

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

# EBRE-LED ... MPS / MPO

## Recessed luminaire series EBRE-LED ... MPS / MPO (modular 625x625)

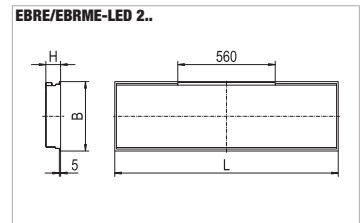
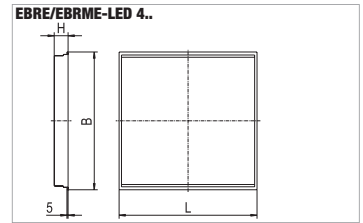
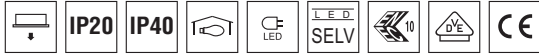
**Design:** Recessed single LED luminaire for modular ceilings 625 x 625. Stable luminaire housing in white powder-coated steel (similar to RAL9016). Diffuser held in the luminaire housing with spring catches, hinges down on both sides with automatic connection to the earth conductor. LED module formed as a circuit board. Mid-power LEDs ensure even illumination and maximum efficiency. Total luminous flux of the LED modules 2500 - 5200 lm. LED driver prefitted in luminaire housing. Operation at safety extra-low voltage below 60 Volt (SELV-conformity).

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), 3000-6500 Kelvin (830-865), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Recessed mounting in different ceiling systems with suitable fixing kit, or lay-in mounting in ceiling systems with visible support rails and laid-in ceiling panels. For lay-in mounting, no additional fixing accessories are required.



### Non-standard designs:

- Mounting of emergency light elements
- Other colour temperatures

EBRE-LED 228/... MPS



EBRE-LED 414/... MPS



### EBRE-LED ... MPS

Protection rating similar to IP40 on the room side and IP20 on the ceiling side. Frame MPS in extruded aluminium with inlaid transparent acrylic panel made of UV-stabilized PMMA with microprism structure to create glare-free VDU workplace lighting. LED spots visible as a circle on the microprism panel.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				LE*	BE*	Ceiling type	el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	LE*					
EBRE-LED 228/2500-830 MPS	2xLED-M 8 W	1793	22	81	830	1247	310	60	1229	292	1 2 4 6	0822884	0832884	
EBRE-LED 228/2700-840 MPS	2xLED-M 7 W	1936	16	121	840	1247	310	60	1229	292	1 2 4 6	0822885	0832885	
EBRE-LED 228/5000-830 MPS	2xLED-M 15 W	3585	32	112	830	1247	310	60	1229	292	1 2 4 6	0822886	0832886	
EBRE-LED 228/5200-840 MPS	2xLED-M 14 W	3728	32	116	840	1247	310	60	1229	292	1 2 4 6	0822887	0832887	
EBRE-LED 414/2500-830 MPS	2xLED-M 8 W	1888	16	118	830	622	622	60	604	604	1 2 3 4	0822888	0832888	
EBRE-LED 414/2700-840 MPS	2xLED-M 7 W	2039	16	127	840	622	622	60	604	604	1 2 3 4	0822889	0832889	
EBRE-LED 414/5000-830 MPS	2xLED-M 15 W	3775	32	117	830	622	622	60	604	604	1 2 3 4	0822890	0832890	
EBRE-LED 414/5200-840 MPS	2xLED-M 14 W	3926	32	122	840	622	622	60	604	604	1 2 3 4	0822832	0832832	

\* Ceiling cut-out

EBRE-LED 228/... MPO



EBRE-LED 414/... MPO



### EBRE-LED ... MPO

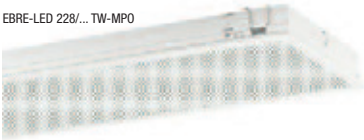
Protection rating similar to IP40 on the room side and IP20 on the ceiling side. Frame MPO in extruded aluminium with inlaid transparent acrylic panel made of UV-stabilized PMMA with microprism structure to create glare-free VDU workplace lighting. Prisms embossed, external. Internally additional opal panel made of UV-stabilised PMMA. Even illumination of the microprism panel.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				LE*	BE*	Ceiling type	el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	LE*					
EBRE-LED 228/2500-830 MPO	2xLED-M 8 W	1668	16	104	830	1247	310	60	1229	292	1 2 4 6	0822899	0832899	
EBRE-LED 228/2700-840 MPO	2xLED-M 7 W	1798	19	94	840	1247	310	60	1229	292	1 2 4 6	0822900	0832900	
EBRE-LED 228/5000-830 MPO	2xLED-M 15 W	3335	32	104	830	1247	310	60	1229	292	1 2 4 6	0822901	0832901	
EBRE-LED 228/5200-840 MPO	2xLED-M 14 W	3468	32	108	840	1247	310	60	1229	292	1 2 4 6	0822902	0832902	
EBRE-LED 414/2500-830 MPO	2xLED-M 8 W	1750	16	109	830	622	622	60	604	604	1 2 3 4	0822903	0832903	
EBRE-LED 414/2700-840 MPO	2xLED-M 7 W	1890	16	118	840	622	622	60	604	604	1 2 3 4	0822904	0832904	
EBRE-LED 414/5000-830 MPO	2xLED-M 15 W	3500	32	109	830	622	622	60	604	604	1 2 3 4	0822905	0832905	
EBRE-LED 414/5200-840 MPO	2xLED-M 14 W	3640	32	113	840	622	622	60	604	604	1 2 3 4	0822906	0832906	

\* Ceiling cut-out

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

EBRE-LED 228/... TW-MPO



EBRE-LED 414/... TW-MPO



**EBRE-LED ... TW-MPO**

Protection rating similar to IP40 on the room side and IP20 on the ceiling side. Frame MPO in extruded aluminium with inlaid transparent acrylic panel made of UV-stabilized PMMA with microprism structure to create glare-free VDU workplace lighting. Prisms embossed, external. Internally additional opal panel made of UV-stabilised PMMA. Even illumination of the microprism panel. Two DALI EVG ballasts for separate actuation of light colours 3000 and 6500 Kelvin. Colour temperature control on request.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				BE*	Ceiling type	dim. conv. DALI Prod. code
						L	B	H	LE*			
EBRE-LED 228/830-865 TW-MPO	2xLED-M 36 W	3468	32	108	830-865	1247	310	90	1229	292	1 2 4 6	0832966
EBRE-LED 414/830-865 TW-MPO	2xLED-M 15 W	3640	32	113	830-865	622	622	90	604	604	1 2 3 4	0832968

\* Ceiling cut-out

**Accessories**



Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-713	Universal fixing kit, 23 to 55mm clamping thickness	0210713
10-717	Universal fixing kit, 45 to 80mm clamping thickness	0210717
10-770	Fixing clip EBR...clamping thic kn. T16: 12-25mm, T26: 12-50mm	0210770
10-777	Fixing kit EBR... for Ecophon Focus Ds/Dg, height 14 mm	0210777
10-778	Fixing kit EBR... for e.g. OWA TECTA S31, height 19.5 mm	0210778
10-779	Fixing kit EBR... for Dipling KP, height 8 mm	0210779
ZRO	Frame opener	0204003



LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

## Recessed luminaire series EBRME-LED ... MPS / MPO (modular 600x600)

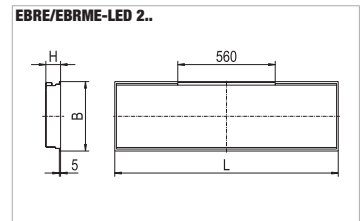
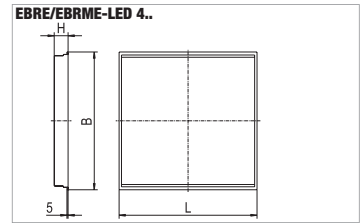
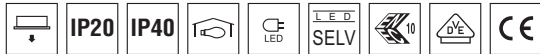
**Design:** Recessed single LED luminaire for modular ceilings 600 x 600. Stable luminaire housing in white powder-coated steel (similar to RAL9016). Diffuser held in the luminaire housing with spring catches, hinges down on both sides with automatic connection to the earth conductor. LED module formed as a circuit board. Mid-power LEDs ensure even illumination and maximum efficiency. Total luminous flux of the LED modules 2500 - 5200 lm. LED driver prefitted in luminaire housing. Operation at safety extra-low voltage below 60 Volt (SELV-conformity).

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), 3000-6500 Kelvin (830-865), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Recessed mounting in different ceiling systems with suitable fixing kit, or lay-in mounting in ceiling systems with visible support rails and laid-in ceiling panels. For lay-in mounting, no additional fixing accessories are required.



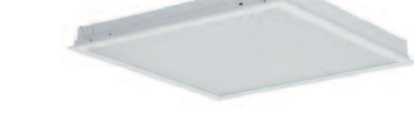
### Non-standard designs:

- Mounting of emergency light elements
- Other colour temperatures

EBRME-LED 228/... MPS



EBRME-LED 414/... MPS



### EBRME-LED ... MPS

Protection rating similar to IP40 on the room side and IP20 on the ceiling side. Frame MPS in extruded aluminium with inlaid transparent acrylic panel made of UV-stabilized PMMA with microprism structure to create glare-free VDU workplace lighting. LED spots visible as a circle on the microprism panel.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				LE*	BE*	Ceiling type	el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	LE*					
EBRME-LED 228/2500-830 MPS	2xLED-M 8 W	1758	16	109	830	1197	297	60	1179	279	1 2 4 6	0822891	0832891	
EBRME-LED 228/2700-840 MPS	2xLED-M 7 W	1898	16	118	840	1197	297	60	1179	279	1 2 4 6	0822892	0832892	
EBRME-LED 228/5000-830 MPS	2xLED-M 15 W	3515	32	109	830	1197	297	60	1179	279	1 2 4 6	0822893	0832893	
EBRME-LED 228/5200-840 MPS	2xLED-M 14 W	3656	32	114	840	1197	297	60	1179	279	1 2 4 6	0822894	0832894	
EBRME-LED 414/2500-830 MPS	2xLED-M 8 W	1830	16	114	830	597	597	60	579	579	1 2 3 4	0822895	0832895	
EBRME-LED 414/2700-840 MPS	2xLED-M 7 W	1976	16	123	840	597	597	60	579	579	1 2 3 4	0822896	0832896	
EBRME-LED 414/5000-830 MPS	2xLED-M 15 W	3660	32	114	830	597	597	60	579	579	1 2 3 4	0822897	0832897	
EBRME-LED 414/5200-840 MPS	2xLED-M 14 W	3806	32	118	840	597	597	60	579	579	1 2 3 4	0822898	0832898	

\* Ceiling cut-out

EBRME-LED 228/... MPO



EBRME-LED 414/... MPO



### EBRME-LED ... MPO

Protection rating similar to IP40 on the room side and IP20 on the ceiling side. Frame MPO in extruded aluminium with inlaid transparent acrylic panel made of UV-stabilized PMMA with microprism structure to create glare-free VDU workplace lighting. Prisms embossed, external. Internally additional opal panel made of UV-stabilised PMMA. Even illumination of the microprism panel.

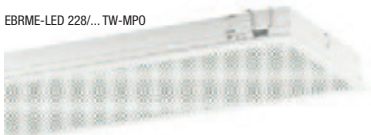
Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				LE*	BE*	Ceiling type	el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	LE*					
EBRME-LED 228/2500-830 MPO	2xLED-M 8 W	1635	16	102	830	1197	297	60	1179	279	1 2 4 6	0822907	0832907	
EBRME-LED 228/2700-840 MPO	2xLED-M 7 W	1766	16	110	840	1197	297	60	1179	279	1 2 4 6	0822908	0832908	
EBRME-LED 228/5000-830 MPO	2xLED-M 15 W	3270	32	102	830	1197	297	60	1179	279	1 2 4 6	0822909	0832909	
EBRME-LED 228/5200-840 MPO	2xLED-M 14 W	3401	32	106	840	1197	297	60	1179	279	1 2 4 6	0822910	0832910	
EBRME-LED 414/2500-830 MPO	2xLED-M 8 W	1703	16	106	830	597	597	60	579	579	1 2 3 4	0822911	0832911	
EBRME-LED 414/2700-840 MPO	2xLED-M 7 W	1839	16	114	840	597	597	60	579	579	1 2 3 4	0822912	0832912	
EBRME-LED 414/5000-830 MPO	2xLED-M 15 W	3405	32	106	830	597	597	60	579	579	1 2 3 4	0822913	0832913	
EBRME-LED 414/5200-840 MPO	2xLED-M 14 W	3541	32	110	840	597	597	60	579	579	1 2 3 4	0822914	0832914	

\* Ceiling cut-out

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.



EBRME-LED 228/... TW-MPO



EBRME-LED 414/... TW-MPO



**EBRME-LED ... TW-MPO**

Protection rating similar to IP40 on the room side and IP20 on the ceiling side. Frame MPO in extruded aluminium with inlaid transparent acrylic panel made of UV-stabilized PMMA with microprism structure to create glare-free VDU workplace lighting. Prisms embossed, external. Internally additional opal panel made of UV-stabilised PMMA. Even illumination of the microprism panel. Two DALI EVG ballasts for separate actuation of light colours 3000 and 6500 Kelvin. Colour temperature control on request.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				BE*	Ceiling type	dim. conv. DALI Prod. code
						L	B	H	LE*			
EBRME-LED 228/830-865 TW-MPO	2xLED-M 36 W	3401	32	106	830-865	1197	297	90	1179	279	1 2 4 6	0832967
EBRME-LED 414/830-865 TW-MPO	2xLED-M 15 W	3541	37	95	830-865	597	597	90	579	579	1 2 3 4	0837698

\* Ceiling cut-out

**Accessories**



Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-713	Universal fixing kit, 23 to 55mm clamping thickness	0210713
10-717	Universal fixing kit, 45 to 80mm clamping thickness	0210717
10-770	Fixing clip EBR...clamping thicken. T16: 12-25mm, T26: 12-50mm	0210770
10-777	Fixing kit EBR... for Ecophon Focus Ds/Dg, height 14 mm	0210777
10-778	Fixing kit EBR... for e.g. OWA TECTA S31, height 19.5 mm	0210778
10-779	Fixing kit EBR... for Dipling KP, height 8 mm	0210779
ZRO	Frame opener	0204003



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## Recessed luminaire series E-DUO for lamp RIDI-TUBE, modular 625 / 600

**Design:** Recessed single LED luminaire for modular ceilings 625 x 625 (EBRE6-R) or 600 x 600 (EBRME6-R). Luminaire height 65 mm. Housing in steel with 5 mm low rim, white (similar to RAL9016). Optical control fitted in the luminaire housing with spring clips, hinging down on both sides with automatic connection to the earth conductor. Protection rating IP20. Lamp: RIDI-TUBE.

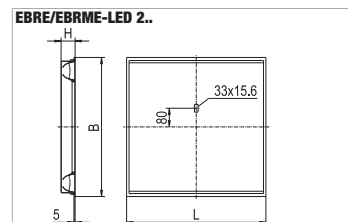
Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. 1-lamp luminaires with and internal connector block 3x2.5mm<sup>2</sup>, multiple-lamp luminaires with internal Linect connector block 5x2.5mm<sup>2</sup>, conventional connection from inside or from outside with Linect accessories.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. 1-lamp luminaires with and internal connector block 3x2.5mm<sup>2</sup>, multiple-lamp luminaires with internal Linect connector block 5x2.5mm<sup>2</sup>, conventional connection from inside or from outside with Linect accessories.

**Mounting:** Recessed mounting in different ceiling systems with suitable fixing kit (accessory), or lay-in mounting in ceiling systems with visible support rails and laid-in ceiling panels. For lay-in mounting, no additional fixing accessories are required.



### Non-standard designs:

- Mounting of emergency light elements

### EBRE6-R .../EBRME6-R ... SM (E-DUO)

Parabolic mirror louvre SM in high-reflectance, silk matt anodised super-purity aluminium with silver coating. For RIDI-TUBE lamp (order separately), recommended cover: matt.



Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	LE*				
EBRE6-R4X055-2/15xx-SM	2xR-TUBE 15 W	A, B	622	622	65	604	604	1 2 3 4	0850573	0860573
EBRE6-R4X055-2/20xx-SM	2xR-TUBE 15 W	A, B	622	622	65	604	604	1 2 3 4	0850575	0860575
EBRME6-R4X055-2/15xx-SM	2xR-TUBE 15 W	A, B	597	597	65	579	579	1 2 3 4	0850577	0860577
EBRME6-R4X055-2/20xx-SM	2xR-TUBE 15 W	A, B	597	597	65	579	579	1 2 3 4	0850579	0860579

\* Ceiling cut-out

### EBRE6-R .../EBRME6-R ... SM SET (E-DUO)

Parabolic mirror louvre SM in high-reflectance, silk matt anodised super-purity aluminium with silver coating. Including RIDI-TUBE lamp.



Model	Lamps max.	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			BE*	Ceiling type	el. conv. Prod. code	dim. conv. DALI Prod. code	
						L	B	H	LE*				
EBRE6-R4X055-2/20xx-SM-SET	2xR-TUBE 15 W	4000	43	93	840	622	622	65	604	604	1 2 3 4	0850575/676	0860575/676

\* Ceiling cut-out

## Accessories



Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-713	Universal fixing kit, 23 to 55mm clamping thickness	0210713
10-717	Universal fixing kit, 45 to 80mm clamping thickness	0210717
10-770	Fixing clip EBR...clamping thicken. T16: 12-25mm, T26: 12-50mm	0210770
10-777	Fixing kit EBR... for Ecophon Focus Ds/Dg, height 14 mm	0210777
10-778	Fixing kit EBR... for e.g. OWA TECTA S31, height 19.5 mm	0210778
10-779	Fixing kit EBR... for Dipling KP, height 8 mm	0210779
ZADV-WINSTA-5-POL-DA-2M	Exten. WAGO-WINSTA, pl/skt, 5-core L1-N-SL-DA-DA, 2m, max. 10A	0217870
ZADV-WINSTA-5-POL-DA-4M	Exten. WAGO-WINSTA, pl/skt, 5-core L1-N-SL-DA-DA, 4m, max. 10A	0217869
ZADV-WINSTA-5-POL-ND-2M	Exten. WAGO-WINSTA pl/skt, 5-core L1-L2-L3-N-SL, 2m, max. 10A	0217879
ZADV-WINSTA-5-POL-ND-4M	Exten. WAGO-WINSTA pl/skt, 5-core L1-L2-L3-N-SL, 4m, max. 10A	0217880
ZEL-BU-WINSTA-5-POL-DA	Socket part WAGO-WINSTA 5-pin, DALI, blue, L1-N-SL-DA-DA, 1 pc.	0217872
ZEL-BU-WINSTA-5-POL-ND	Socket WAGO-WINSTA 5-core, black, L1-L2-L3-N-SL, 1 pc	0217876
ZEL-ST-WINSTA-5-POL-DA	Plug part WAGO-WINSTA 5-pin, DALI, blue, L1-N-SL-DA-DA, 1 pc.	0217871
ZEL-ST-WINSTA-5-POL-ND	Plug WAGO-WINSTA 5-core, black, L1-L2-L3-N-SL, 1 pc	0217877
ZEL-TV-LINECT-WINSTA-5-POL-DA	T-distributor LINECT-WINSTA 5-pin, DALI blue, L1-N-SL-DA-DA, 1 pc.	0217873
ZEL-TV-LINECT-WINSTA-5-POL-ND	T-distr. LINECT-WINSTA 5-core, black, L1-L2-L3-N-SL, 1St	0217878

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

# EBRE6-R ... for lamps RIDI-TUBE

## Recessed luminaire series EBRE6-R ... for lamp RIDI-TUBE, modular 625x625

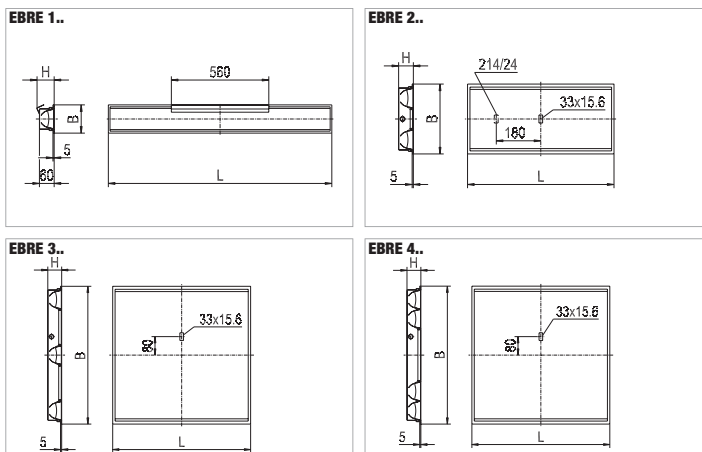
**Design:** Recessed single LED luminaire for modular ceilings 625 x 625. Luminaire height 60 mm (1-lamp 71 mm). Luminaire housing with 5mm low rim in white powder-coated steel (similar to RAL9016). Optical control held in the luminaire housing with spring catches, hinges down on both sides with automatic connection to the earth conductor. Protection class IP20. For RIDI RIDI-TUBE (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

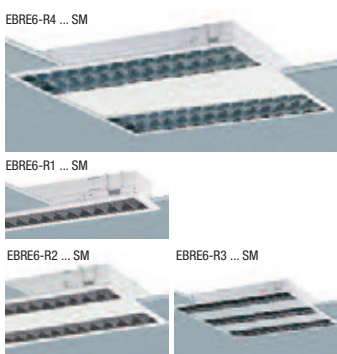
- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. 1-lamp luminaires with and internal connector block 3x2.5mm<sup>2</sup>, multiple-lamp luminaires with internal Linect connector block 5x2.5mm<sup>2</sup>, conventional connection from inside or from outside with Linect accessories.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. 1-lamp luminaires with and internal connector block 3x2.5mm<sup>2</sup>, multiple-lamp luminaires with internal Linect connector block 5x2.5mm<sup>2</sup>, conventional connection from inside or from outside with Linect accessories.

**Mounting:** Recessed mounting in different ceiling systems with suitable fixing kit (accessory), or lay-in mounting in ceiling systems with visible support rails and laid-in ceiling panels. For lay-in mounting, no additional fixing accessories are required.



### Non-standard designs:

- Mounting of emergency light elements

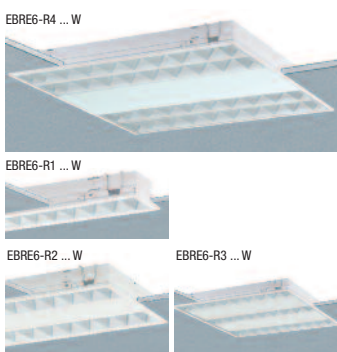


### EBRE6-R ... SM

Parabolic mirror louvre SM in high-reflectance, silk matt anodised super-purity aluminium with silver coating. For lamp RIDI-TUBE, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			LE*	BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H						
EBRE6-R1X115/30xx-SM	1xR-TUBE 30 W	E, F	1247	115	71	1229	102	1 2 4 6	0850019	0860019	
EBRE6-R1X145/35xx-SM	1xR-TUBE 35 W	H, I	1547	115	71	1529	102	1 2 4 6	0850022	0860022	
EBRE6-R2X115/30xx-SM	2xR-TUBE 30 W	E, F	1247	310	60	1229	292	1 2 4 6	0850004	0860004	
EBRE6-R2X145/35xx-SM	2xR-TUBE 35 W	H, I	1547	310	60	1529	292	1 2 4 6	0850025	0860025	
EBRE6-R3X055/10xx-SM	3xR-TUBE 10 W	A	622	622	60	604	604	1 2 3 4	0850029	0860029	
EBRE6-R4X055/15xx-SM	4xR-TUBE 15 W	A, B	622	622	60	604	604	1 2 3 4	0850030	0860030	

\* Ceiling cut-out



### EBRE6-R ... W

White steel louvre W made of coated aluminium. For lamp RIDI-TUBE, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			LE*	BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H						
EBRE6-R1X115/30xx-W	1xR-TUBE 30 W	E, F	1247	115	71	1229	102	1 2 4 6	0850020	0860020	
EBRE6-R1X145/35xx-W	1xR-TUBE 35 W	H, I	1547	115	71	1529	102	1 2 4 6	0850023	0860023	
EBRE6-R2X115/30xx-W	2xR-TUBE 30 W	E, F	1247	310	60	1229	292	1 2 4 6	0850016	0860016	
EBRE6-R2X145/35xx-W	2xR-TUBE 35 W	H, I	1547	310	60	1529	292	1 2 4 6	0850026	0860026	
EBRE6-R3X055/10xx-W	3xR-TUBE 10 W	A	622	622	60	604	604	1 2 3 4	0850027	0860027	
EBRE6-R4X055/15xx-W	4xR-TUBE 15 W	A, B	622	622	60	604	604	1 2 3 4	0850031	0860031	

\* Ceiling cut-out

## Accessories



Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-713	Universal fixing kit, 23 to 55mm clamping thickness	0210713
10-717	Universal fixing kit, 45 to 80mm clamping thickness	0210717
10-770	Fixing clip EBR...clamping thicken. T16: 12-25mm, T26: 12-50mm	0210770
10-777	Fixing kit EBR... for Ecophon Focus Ds/Dg, height 14 mm	0210777
10-778	Fixing kit EBR... for e.g. OWA TECTA S31, height 19.5 mm	0210778
10-779	Fixing kit EBR... for Dipling KP, height 8 mm	0210779
ZADV-WINSTA-5-POL-DA-2M	Exten. WAGO-WINSTA, pl/skt, 5-core L1-N-SL-DA-DA, 2m, max. 10A	0217870
ZADV-WINSTA-5-POL-DA-4M	Exten. WAGO-WINSTA, pl/skt, 5-core L1-N-SL-DA-DA, 4m, max. 10A	0217869
ZADV-WINSTA-5-POL-ND-2M	Exten. WAGO-WINSTA pl/skt, 5-core L1-L2-L3-N-SL,2m, max. 10A	0217879
ZADV-WINSTA-5-POL-ND-4M	Exten. WAGO-WINSTA pl/skt, 5-core L1-L2-L3-N-SL,4m, max. 10A	0217880
ZEL-BU-WINSTA-5-POL-DA	Socket part WAGO-WINSTA 5-pin, DALI, blue, L1-N-SL-DA-DA, 1 pc.	0217872
ZEL-BU-WINSTA-5-POL-ND	Socket WAGO-WINSTA 5-core, black, L1-L2-L3-N-SL, 1 pc	0217876
ZEL-ST-WINSTA-5-POL-DA	Plug part WAGO-WINSTA 5-pin, DALI, blue, L1-N-SL-DA-DA, 1 pc.	0217871
ZEL-ST-WINSTA-5-POL-ND	Plug WAGO-WINSTA 5-core, black, L1-L2-L3-N-SL, 1 pc	0217877
ZEL-TV-LINECT-WINSTA-5-POL-DA	T-distributor LINECT-WINSTA 5-pin, DALI blue, L1-N-SL-DA-DA,1 pc.	0217873
ZEL-TV-LINECT-WINSTA-5-POL-ND	T-distr. LINECT-WINSTA 5-core, black, L1-L2-L3-N-SL, 1St	0217878



# EBRE9-R ... for lamps RIDI-TUBE

## Recessed luminaire series EBRE9-R ... for lamp RIDI-TUBE, modular 625x625

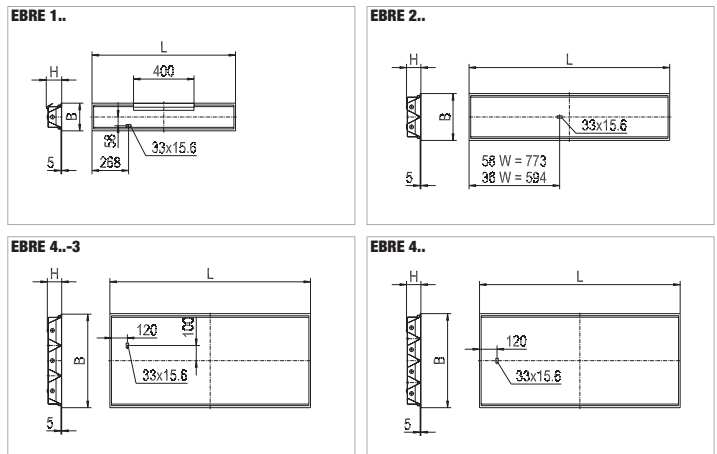
**Design:** Recessed single LED luminaire for modular ceilings 625 x 625. Luminaire height 95 mm (1-lamp 100 mm). Luminaire housing with 5mm low ring in white powder-coated steel (similar to RAL9016). Optical control held in the luminaire housing with spring catches, hinges down on both sides with automatic connection to the earth conductor. Protection class IP20. For lamp RIDI-TUBE (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

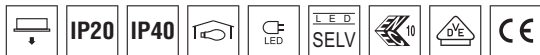
- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. 1-lamp luminaires with and internal connector block 3x2.5mm<sup>2</sup>, multiple-lamp luminaires with internal Linect connector block 5x2.5mm<sup>2</sup>, conventional connection from inside or from outside with Linect accessories.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. 1-lamp luminaires with and internal connector block 3x2.5mm<sup>2</sup>, multiple-lamp luminaires with internal Linect connector block 5x2.5mm<sup>2</sup>, conventional connection from inside or from outside with Linect accessories.

**Mounting:** Recessed mounting in different ceiling systems with suitable fixing kit (accessory), or lay-in mounting in ceiling systems with visible support rails and laid-in ceiling panels. For lay-in mounting, no additional fixing accessories are required.



### Non-standard designs:

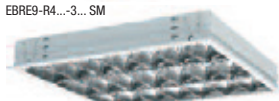
- Mounting of emergency light elements



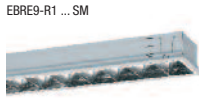
EBRE9-R4 ... SM



EBRE9-R4...-3... SM



EBRE9-R1 ... SM



EBRE9-R2 ... SM



### EBRE9-R ... SM, IP 20

Parabolic mirror louvre SM in matt anodised aluminium.  
For lamp RIDI-TUBE, recommended cover: matt.

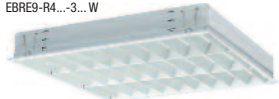
Model	Lamps max.	R-TUBE Category	L	Dimens. [mm] B H LE*	BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
EBRE9-R1X120/25xx-SM	1xR-TUBE 25 W	G	1247	183 100 1229	165	1 2 4 6	0850034	0860034
EBRE9-R1X150/40xx-SM	1xR-TUBE 40 W	J	1547	183 100 1529	165	1 2 4 6	0850038	0860038
EBRE9-R2X120/25xx-SM	2xR-TUBE 25 W	G	1247	310 95 1229	292	1 2 4 6	0850010	0860010
EBRE9-R2X150/40xx-SM	2xR-TUBE 40 W	J	1547	310 95 1529	292	1 2 4 6	0850013	0860013
EBRE9-R4X055/15xx-SM	4xR-TUBE 15 W	A, B	622	622 95 604	604	1 2 3 4	0850050	0860050
EBRE9-R4X055-3/10xx-SM	3xR-TUBE 10 W	A	622	622 95 604	604	1 2 3 4	0850047	0860047

\* Ceiling cut-out

EBRE9-R4 ... W



EBRE9-R4...-3... W



EBRE9-R1 ... W



EBRE9-R2 ... W



### EBRE9-R ... W, IP 20

White steel louvre W.  
For lamp RIDI-TUBE, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm] B H LE*	BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
EBRE9-R1X120/25xx-W	1xR-TUBE 25 W	G	1247	183 100 1229	165	1 2 4 6	0850032	0860032
EBRE9-R1X150/40xx-W	1xR-TUBE 40 W	J	1547	183 100 1529	165	1 2 4 6	0850039	0860039
EBRE9-R2X055/15xx-W	2xR-TUBE 15 W	A, B	622	310 95 604	292	1 2 4	0850349	0860349
EBRE9-R2X120/25xx-W	2xR-TUBE 25 W	G	1247	310 95 1229	292	1 2 4 6	0850181	0860181
EBRE9-R2X150/40xx-W	2xR-TUBE 40 W	J	1547	310 95 1529	292	1 2 4 6	0850044	0860044
EBRE9-R4X055/15xx-W	4xR-TUBE 15 W	A, B	622	622 95 604	604	1 2 3 4	0850002	0860002
EBRE9-R4X055-3/10xx-W	3xR-TUBE 10 W	A	622	622 95 604	604	1 2 3 4	0850046	0860046

\* Ceiling cut-out

EBRE9-R4 ... OS



## EBRE9-R ... OS, IP 40

Frame OS made of aluminium profiles with inlaid opal panel in UV-stabilised PMMA, transmission 82%.

For lamp RIDI-TUBE, recommended cover: matt.

**Note:** IP40 when mounting in closed ceilings. Protection rating IP20 on the ceiling side.

EBRE9-R2 ... OS



Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			LE*	BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	LE*					
EBRE9-R1X120/25xx-OS	1xR-TUBE 25 W	G	1247	183	100	1229	165	1 2 4 6	0850006	0860006	
EBRE9-R1X150/40xx-OS	1xR-TUBE 40 W	J	1547	183	100	1529	165	1 2 4 6	0850036	0860036	
EBRE9-R2X120/25xx-OS	2xR-TUBE 25 W	G	1247	310	95	1229	292	1 2 4 6	0850008	0860008	
EBRE9-R2X150/40xx-OS	2xR-TUBE 40 W	J	1547	310	95	1529	292	1 2 4 6	0850012	0860012	
EBRE9-R4X055/15xx-OS	4xR-TUBE 15 W	A, B	622	622	95	604	604	1 2 3 4	0850053	0860053	

\* Ceiling cut-out

EBRE9-R4 ... PS



## EBRE9-R ... PS, IP 40

Frame PS made of aluminium profiles with inlaid prismatic UV-stabilised acrylic panel featuring an optically effective external prismatic structure.

For lamp RIDI-TUBE, recommended cover: clear.

**Note:** IP40 when mounting in closed ceilings. Protection rating IP20 on the ceiling side

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			LE*	BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	LE*					
EBRE9-R1X120/25xx-PS	1xR-TUBE 25 W	G	1247	183	100	1229	165	1 2 4 6	0850033	0860033	
EBRE9-R1X150/40xx-PS	1xR-TUBE 40 W	J	1547	183	100	1529	165	1 2 4 6	0850040	0860040	
EBRE9-R2X120/25xx-PS	2xR-TUBE 25 W	G	1247	310	95	1229	292	1 2 4 6	0850042	0860042	
EBRE9-R2X150/40xx-PS	2xR-TUBE 40 W	J	1547	310	95	1529	292	1 2 4 6	0850045	0860045	
EBRE9-R4X055/15xx-PS	4xR-TUBE 15 W	A, B	622	622	95	604	604	1 2 3 4	0850051	0860051	

\* Ceiling cut-out

## Accessories



Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-713	Universal fixing kit, 23 to 55mm clamping thickness	0210713
10-717	Universal fixing kit, 45 to 80mm clamping thickness	0210717
10-770	Fixing clip EBR...clamping thicken. T16: 12-25mm, T26: 12-50mm	0210770
10-777	Fixing kit EBR... for Ecophon Focus Ds/Dg, height 14 mm	0210777
10-778	Fixing kit EBR... for e.g. OWA TECTA S31, height 19.5 mm	0210778
10-779	Fixing kit EBR... for Dipling KP, height 8 mm	0210779
ZADV-WINSTA-5-POL-DA-2M	Exten. WAGO-WINSTA, pl/skt, 5-core L1-N-SL-DA-DA, 2m, max. 10A	0217870
ZADV-WINSTA-5-POL-DA-4M	Exten. WAGO-WINSTA, pl/skt, 5-core L1-N-SL-DA-DA, 4m, max. 10A	0217869
ZADV-WINSTA-5-POL-ND-2M	Exten. WAGO-WINSTA pl/skt, 5-core L1-L2-L3-N-SL,2m, max. 10A	0217879
ZADV-WINSTA-5-POL-ND-4M	Exten. WAGO-WINSTA pl/skt, 5-core L1-L2-L3-N-SL,4m, max. 10A	0217880
ZEL-BU-WINSTA-5-POL-DA	Socket part WAGO-WINSTA 5-pin, DALI, blue, L1-N-SL-DA-DA, 1 pc.	0217872
ZEL-BU-WINSTA-5-POL-ND	Socket WAGO-WINSTA 5-core, black, L1-L2-L3-N-SL, 1 pc	0217876
ZEL-ST-WINSTA-5-POL-DA	Plug part WAGO-WINSTA 5-pin, DALI, blue, L1-N-SL-DA-DA, 1 pc.	0217871
ZEL-ST-WINSTA-5-POL-ND	Plug WAGO-WINSTA 5-core, black, L1-L2-L3-N-SL, 1 pc	0217877
ZEL-TV-LINECT-WINSTA-5-POL-DA	T-distributor LINECT-WINSTA 5-pin, DALI blue, L1-N-SL-DA-DA, 1 pc.	0217873
ZEL-TV-LINECT-WINSTA-5-POL-ND	T-distr. LINECT-WINSTA 5-core, black, L1-L2-L3-N-SL, 1St	0217878
ZRO	Frame opener	0204003

# EBRME6-R for lamps RIDI-TUBE

## Recessed luminaire series EBRME6-R ... for lamp RIDI-TUBE, modular 600x600

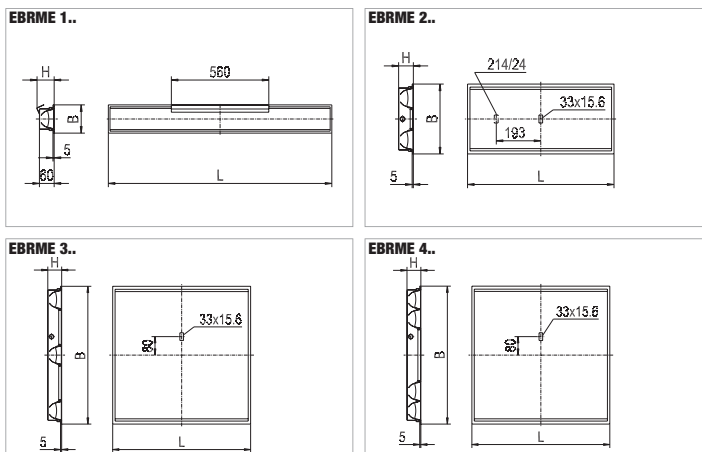
**Design:** Recessed single LED luminaire for modular ceilings 600 x 600. Luminaire height 60 mm (1-lamp 71 mm). Luminaire housing with 5mm small trim in white powder-coated steel (similar to RAL9016). Optical control held in the luminaire housing with spring catches, hinges down on both sides with automatic connection to the earth conductor. Protection class IP20. For LED lamp RIDI RIDI-TUBE (must be ordered separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. 1-lamp luminaires with and internal connector block 3x2.5mm<sup>2</sup>, multiple-lamp luminaires with internal Linect connector block 5x2.5mm<sup>2</sup>, conventional connection from inside or from outside with Linect accessories.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. 1-lamp luminaires with and internal connector block 3x2.5mm<sup>2</sup>, multiple-lamp luminaires with internal Linect connector block 5x2.5mm<sup>2</sup>, conventional connection from inside or from outside with Linect accessories.

**Mounting:** Simple lay-in installation in ceilings with exposed T-bars and installation in sawn ceiling openings using suitable fixing kits.



EBRME6-R4 ... SM



EBRME6-R1 ... SM



EBRME6-R2 ... SM

EBRME6-R3 ... SM



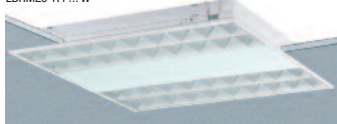
### EBRME6-R ... SM

Parabolic mirror louvre SM in high-reflectance, silk matt anodised super-purity aluminium with silver coating. For lamp RIDI-TUBE, recommended cover: matt

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	LE*				
EBRME6-R1X115/30xx-SM	1xR-TUBE 30 W	E, F	1197	115	71	1179	102	1 2 4 6	0850057	0860057
EBRME6-R1X145/35xx-SM	1xR-TUBE 35 W	H, I	1497	115	71	1479	102	1 2 4 6	0850060	0860060
EBRME6-R2X115/30xx-SM	2xR-TUBE 30 W	E, F	1197	297	60	1179	279	1 2 4 6	0850054	0860054
EBRME6-R2X145/35xx-SM	2xR-TUBE 35 W	H, I	1497	297	60	1479	279	1 2 4 6	0850065	0860065
EBRME6-R3X055/10xx-SM	3xR-TUBE 10 W	A	597	597	60	579	579	1 2 3 4	0850055	0860055
EBRME6-R4X055/15xx-SM	4xR-TUBE 15 W	A, B	597	597	60	579	579	1 2 3 4	0850070	0860070

\* Ceiling cut-out

EBRME6-R4 ... W



EBRME6-R1 ... W



EBRME6-R2 ... W

EBRME6-R3 ... W



### EBRME6-R ... W

White louvre W in coated aluminium. For lamp RIDI-TUBE, recommended cover: matt

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	LE*				
EBRME6-R1X115/30xx-W	1xR-TUBE 30 W	E, F	1197	115	71	1179	102	1 2 4 6	0850058	0860058
EBRME6-R1X145/35xx-W	1xR-TUBE 35 W	H, I	1497	115	71	1479	102	1 2 4 6	0850061	0860061
EBRME6-R2X115/30xx-W	2xR-TUBE 30 W	E, F	1197	297	60	1179	279	1 2 4 6	0850063	0860063
EBRME6-R2X145/35xx-W	2xR-TUBE 35 W	H, I	1497	297	60	1479	279	1 2 4 6	0850066	0860066
EBRME6-R3X055/10xx-W	3xR-TUBE 10 W	A	597	597	60	579	579	1 2 3 4	0850068	0860068
EBRME6-R4X055/15xx-W	4xR-TUBE 15 W	A, B	597	597	60	579	579	1 2 3 4	0850071	0860071

\* Ceiling cut-out



### Accessories



Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-713	Universal fixing kit, 23 to 55mm clamping thickness	0210713
10-717	Universal fixing kit, 45 to 80mm clamping thickness	0210717
10-770	Fixing clip EBR...clamping thicken. T16: 12-25mm, T26: 12-50mm	0210770
10-777	Fixing kit EBR... for Ecophon Focus Ds/Dg, height 14 mm	0210777
10-778	Fixing kit EBR... for e.g. OWA TECTA S31, height 19.5 mm	0210778
10-779	Fixing kit EBR... for Dipling KP, height 8 mm	0210779
ZADV-WINSTA-5-POL-DA-2M	Exten. WAGO-WINSTA, pl/skt, 5-core L1-N-SL-DA-DA, 2m, max. 10A	0217870
ZADV-WINSTA-5-POL-DA-4M	Exten. WAGO-WINSTA, pl/skt, 5-core L1-N-SL-DA-DA, 4m, max. 10A	0217869
ZADV-WINSTA-5-POL-ND-2M	Exten. WAGO-WINSTA pl/skt, 5-core L1-L2-L3-N-SL,2m, max. 10A	0217879
ZADV-WINSTA-5-POL-ND-4M	Exten. WAGO-WINSTA pl/skt, 5-core L1-L2-L3-N-SL,4m, max. 10A	0217880
ZEL-BU-WINSTA-5-POL-DA	Socket part WAGO-WINSTA 5-pin, DALI, blue, L1-N-SL-DA-DA, 1 pc.	0217872
ZEL-BU-WINSTA-5-POL-ND	Socket WAGO-WINSTA 5-core, black, L1-L2-L3-N-SL, 1 pc	0217876
ZEL-ST-WINSTA-5-POL-DA	Plug part WAGO-WINSTA 5-pin, DALI, blue, L1-N-SL-DA-DA, 1 pc.	0217871
ZEL-ST-WINSTA-5-POL-ND	Plug WAGO-WINSTA 5-core, black, L1-L2-L3-N-SL, 1 pc	0217877
ZEL-TV-LINECT-WINSTA-5-POL-DA	T-distributor LINECT-WINSTA 5-pin, DALI blue, L1-N-SL-DA-DA,1 pc.	0217873
ZEL-TV-LINECT-WINSTA-5-POL-ND	T-distr. LINECT-WINSTA 5-core, black, L1-L2-L3-N-SL, 1St	0217878

# EBRME9-R for lamps RIDI-TUBE

## Recessed luminaire series EBRME9-R ... for lamp RIDI-TUBE, modular 600x600

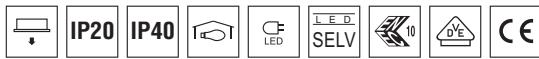
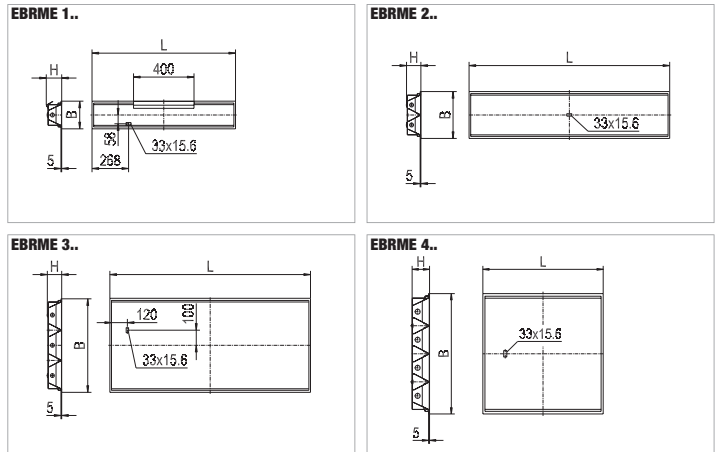
**Design:** Recessed single LED luminaire for modular ceilings 600 x 600. Luminaire height 95 mm (1-lamp 100 mm). Luminaire housing with 5mm low rim in white powder-coated steel (similar to RAL9016). Optical control held in the luminaire housing with spring catches, hinges down on both sides with automatic connection to the earth conductor. Protection class IP20. For LED lamp RIDI RIDI-TUBE (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. 1-lamp luminaires with and internal connector block 3x2.5mm<sup>2</sup>, multiple-lamp luminaires with internal Linect connector block 5x2.5mm<sup>2</sup>, conventional connection from inside or from outside with Linect accessories.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. 1-lamp luminaires with and internal connector block 3x2.5mm<sup>2</sup>, multiple-lamp luminaires with internal Linect connector block 5x2.5mm<sup>2</sup>, conventional connection from inside or from outside with Linect accessories.

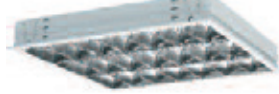
**Mounting:** Installation in various ceiling systems using suitable fixing kit or lay-in mounting in ceilings with exposed T-bars.



EBRME9-R4 ... SM



EBRME9-R4...-3... SM



EBRME9-R1 ... SM



EBRME9-R2 ... SM



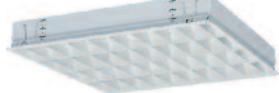
### EBRME9-R ... SM, IP 20

Parabolic mirror louvre SM in matt anodised aluminium.  
For lamp RIDI-TUBE, recommended cover: matt

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			LE*	BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	LE*					
EBRME9-R1X115/30xx-SM	1xR-TUBE 30 W	E, F	1197	183	100	1179	165	1 2 4 6	0850075	0860075	
EBRME9-R1X145/35xx-SM	1xR-TUBE 35 W	H, I	1497	183	100	1479	165	1 2 4 6	0850080	0860080	
EBRME9-R2X115/30xx-SM	2xR-TUBE 30 W	E, F	1197	297	95	1179	279	1 2 4 6	0850085	0860085	
EBRME9-R2X145/35xx-SM	2xR-TUBE 35 W	H, I	1497	297	95	1479	279	1 2 4 6	0850090	0860090	
EBRME9-R4X055/15xx-SM	4xR-TUBE 15 W	A, B	597	597	95	579	579	1 2 3 4	0850072	0860072	
EBRME9-R4X055-3/10xx-SM	3xR-TUBE 10 W	A	597	597	95	579	579	1 2 3 4	0850098	0860098	

\* Ceiling cut-out

EBRME9-R4 ... W



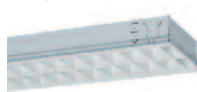
EBRME9-R4...-3... W



EBRME9-R1 ... W



EBRME9-R2 ... W



### EBRME9-R ... W, IP 20

White steel louvre W.  
For lamp RIDI-TUBE, recommended cover: matt

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			LE*	BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	LE*					
EBRME9-R1X115/30xx-W	1xR-TUBE 30 W	E, F	1197	183	100	1179	165	1 2 4 6	0850076	0860076	
EBRME9-R1X145/35xx-W	1xR-TUBE 35 W	H, I	1497	183	100	1479	165	1 2 4 6	0850081	0860081	
EBRME9-R2X115/30xx-W	2xR-TUBE 30 W	E, F	1197	297	95	1179	279	1 2 4 6	0850086	0860086	
EBRME9-R2X145/35xx-W	2xR-TUBE 35 W	H, I	1497	297	95	1479	279	1 2 4 6	0850091	0860091	
EBRME9-R4X055/15xx-W	4xR-TUBE 15 W	A, B	597	597	95	579	579	1 2 3 4	0850095	0860095	
EBRME9-R4X055-3/10xx-W	3xR-TUBE 10 W	A	597	597	95	579	579	1 2 3 4	0850099	0860099	

\* Ceiling cut-out

EBRME9-R4 ... OS



## EBRME9-R ... OS, IP 40

Frame OS made of aluminium profiles with inlaid opal panel in UV-stabilised PMMA, transmission 82%.

For lamp RIDI-TUBE, recommended cover: matt.

**Note:** IP40 when mounting in closed ceilings. Protection rating on ceiling side IP20.

EBRME9-R2 ... OS



Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	LE*				
EBRME9-R1X115/30xx-OS	1xR-TUBE 30 W	E, F	1197	183	100	1179	165	1 2 4 6	0850210	0860210
EBRME9-R1X145/35xx-OS	1xR-TUBE 35 W	H, I	1497	183	100	1479	165	1 2 4 6	0850212	0860212
EBRME9-R2X115/30xx-OS	2xR-TUBE 30 W	E, F	1197	297	95	1179	279	1 2 4 6	0850215	0860215
EBRME9-R2X145/35xx-OS	2xR-TUBE 35 W	H, I	1497	297	95	1479	279	1 2 4 6	0850217	0860217
EBRME9-R4X055/15xx-OS	4xR-TUBE 15 W	A, B	597	597	95	579	579	1 2 3 4	0850094	0860094

\* Ceiling cut-out

EBRME9-R4 ... PS



## EBRME9-R ... PS, IP 40

Frame PS as ...OS, but with inlaid acrylic panel in UV-stabilised PMMA featuring an optically effective prismatic structure.

For RIDI-TUBE lamp, recommended cover: clear.

**Note:** IP40 when mounting in closed ceilings. Protection rating on ceiling side IP20.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	LE*				
EBRME9-R1X115/30xx-PS	1xR-TUBE 30 W	E, F	1197	183	100	1179	165	1 2 4 6	0850211	0860211
EBRME9-R1X145/35xx-PS	1xR-TUBE 35 W	H, I	1497	183	100	1479	165	1 2 4 6	0850213	0860213
EBRME9-R2X115/30xx-PS	2xR-TUBE 30 W	E, F	1197	297	95	1179	279	1 2 4 6	0850216	0860216
EBRME9-R2X145/35xx-PS	2xR-TUBE 35 W	H, I	1497	297	95	1479	279	1 2 4 6	0850218	0860218
EBRME9-R4X055/15xx-PS	4xR-TUBE 15 W	A, B	597	597	95	579	579	1 2 3 4	0850096	0860096

\* Ceiling cut-out

## Accessories



Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-713	Universal fixing kit, 23 to 55mm clamping thickness	0210713
10-717	Universal fixing kit, 45 to 80mm clamping thickness	0210717
10-770	Fixing clip EBR...clamping thicken. T16: 12-25mm, T26: 12-50mm	0210770
10-777	Fixing kit EBR... for Ecophon Focus Ds/Dg, height 14 mm	0210777
10-778	Fixing kit EBR... for e.g. OWA TECTA S31, height 19.5 mm	0210778
10-779	Fixing kit EBR... for Dipling KP, height 8 mm	0210779
ZADV-WINSTA-5-POL-DA-2M	Exten. WAGO-WINSTA, pl/skt, 5-core L1-N-SL-DA-DA, 2m, max. 10A	0217870
ZADV-WINSTA-5-POL-DA-4M	Exten. WAGO-WINSTA, pl/skt, 5-core L1-N-SL-DA-DA, 4m, max. 10A	0217869
ZADV-WINSTA-5-POL-ND-2M	Exten. WAGO-WINSTA pl/skt, 5-core L1-L2-L3-N-SL,2m, max. 10A	0217879
ZADV-WINSTA-5-POL-ND-4M	Exten. WAGO-WINSTA pl/skt, 5-core L1-L2-L3-N-SL,4m, max. 10A	0217880
ZEL-BU-WINSTA-5-POL-DA	Socket part WAGO-WINSTA 5-pin, DALI, blue, L1-N-SL-DA-DA, 1 pc.	0217872
ZEL-BU-WINSTA-5-POL-ND	Socket WAGO-WINSTA 5-core, black, L1-L2-L3-N-SL, 1 pc	0217876
ZEL-ST-WINSTA-5-POL-DA	Plug part WAGO-WINSTA 5-pin, DALI, blue, L1-N-SL-DA-DA, 1 pc.	0217871
ZEL-ST-WINSTA-5-POL-ND	Plug WAGO-WINSTA 5-core, black, L1-L2-L3-N-SL, 1 pc	0217877
ZEL-TV-LINECT-WINSTA-5-POL-DA	T-distributor LINECT-WINSTA 5-pin, DALI blue, L1-N-SL-DA-DA,1 pc.	0217873
ZEL-TV-LINECT-WINSTA-5-POL-ND	T-distr. LINECT-WINSTA 5-core, black, L1-L2-L3-N-SL, 1St	0217878
ZRO	Frame opener	0204003

# EBWE-R/EBWME-R

## Recessed luminaire series EBWE-R/EBWME-R ... (modular 600x600/625x625)

**Design:** Wall washer, single luminaire, white powder coated steel housing. Luminaires available for 600x600 (EBWME-R ...) or 625x625 (EBWE-R ...) system ceiling.

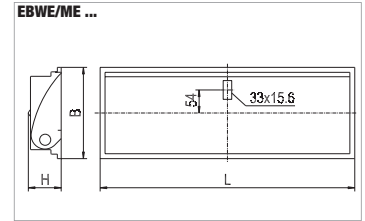
For RIDI-TUBE lamps (must be ordered separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Simple lay-in installation in ceiling systems with exposed T-bars and installation in various ceiling systems with suitable fixing kits.



acc. to DIN EN 60598/VDE 0711



### EBWE-R ... / EBWME-R ...

Parabolic reflector made of high-reflectance, matt super-purity anodised aluminium with silver coating, asymmetric distribution.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]			Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H			
EBWE-R1X055/15xx	1xR-TUBE 15 W	A, B	622	214	72	1 2 4	0850390	0860390
EBWE-R1X115/30xx	1xR-TUBE 30 W	E, F	1247	214	72	1 2 4	0850391	0860391
EBWE-R1X145/35xx	1xR-TUBE 35 W	H, I	1547	214	72	1 2 4	0850392	0860392
EBWME-R1X115/30xx	1xR-TUBE 30 W	E, F	1197	214	72	1 2 4	0850324	0860324
EBWME-R1X145/35xx	1xR-TUBE 35 W	H, I	1497	214	72	1 2 4	0850327	0860327

### Accessories



10-013

Model	Description	Prod. code
10-013	Universal fixing kit, clamping range 23-55 mm	0210013
10-017	Universal fixing kit, clamping range 45-80mm	0210017

## Recessed luminaire series EBW-R ...

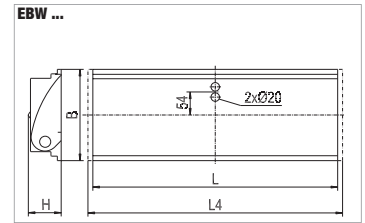
**Design:** Wall washer, white powder coated steel housing. Due to flat smooth ends, this luminaire is suitable for use in continuous lighting systems (note accessories). For mounting in sawn ceilings or in 100x100 / 200x200 plank ceilings. As a stand alone luminaire and for the start and end of continuous rows of luminaires, end trim brackets can be mounted (accessories). For RIDI-TUBE lamps (must be ordered separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Installation using suitable fixing kits. Recommended wall spacing 1/3 of the room height.



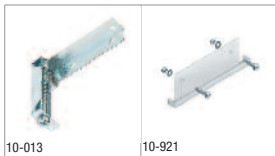
acc. to DIN EN 60598/VDE 0711



**EBW-R ...**

Parabolic reflector in high-reflectance matt super-purity anodised aluminium with silver coating, asymmetric distribution.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]			Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H			
EBW-R1X115/30xx	1xR-TUBE 30 W	E, F	1226	214	72	1 7	0850395	0860395
EBW-R1X145/35xx	1xR-TUBE 35 W	H, I	1526	214	72	1 7	0850396	0860396



### Accessories

Model	Description	Prod. code
10-013	Universal fixing kit, clamping range 23-55 mm	0210013
10-017	Universal fixing kit, clamping range 45-80mm	0210017
10-921	EBW end trim kit, for single lum. or start/end of cont. run	0210921

# EBRPL-R for lamps RIDI-TUBE

## Recessed luminaire series EBRPL-R for panelled ceilings

**Design:** Recessed luminaire for mounting in modular 100 x 100 panel ceilings with open panel joints. Capable of continuous mounting. Suitable for continuous mounting. In continuous systems, louvre with continuous optical effect. White powder coat finish steel housing (similar to RAL9016). Steel end pieces to be ordered separately, see accessories. The louvre hinging down on both sides with automatic connection to the earth conductor. Luminaire connection from inside, optionally from the outside with adapter Wieland gesis-TOP (accessory 0212371). DALI luminaires with connection of DALI cable using accessory 0212526 (Wieland BST 14i2 plug blue) or 0212527 (Wieland BST 14i2 socket blue).

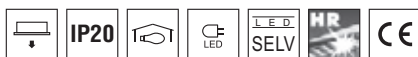
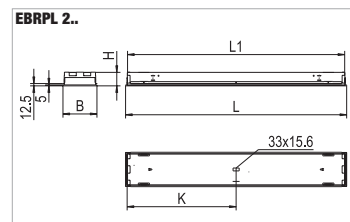
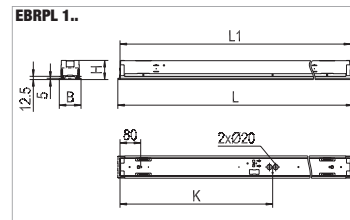
For LED lamp RIDI RIDI-TUBE (must be ordered separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** A mounting bracket for mounting parallel to the ceiling panels is supplied as standard. Not suitable for ceilings with filler strips. Luminaire mounting in sawn ceilings is optionally possible. Please enquire for details.



acc. to DIN EN 60598/VDE 0711



### EBRPL-R ... SM

Parabolic mirror louvre SM in high-reflectance, matt super-purity anodised aluminium with silver coating.

For lamp RIDI-TUBE, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]				Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	L1	K			
EBRPL-R1X115/30xx-SM	1xR-TUBE 30 W	E, F	1197	84	74	1180	590	7	0850399	0860399
EBRPL-R1X145/35xx-SM	1xR-TUBE 35 W	H, I	1497	84	74	1480	740	7	0850397	0860397
EBRPL-R2X115/30xx-SM	2xR-TUBE 30 W	E, F	1197	184	74	1180	590	7	0850401	0860401
EBRPL-R2X145/35xx-SM	2xR-TUBE 35 W	H, I	1497	184	74	1480	740	7	0850403	0860403



### EBRPL-R ... W

White louvre W in white coated aluminium.

For lamp RIDI-TUBE, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]				Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	L1	K			
EBRPL-R1X115/30xx-W	1xR-TUBE 30 W	E, F	1197	84	74	1180	590	7	0850400	0860400
EBRPL-R1X145/35xx-W	1xR-TUBE 35 W	H, I	1497	84	74	1480	740	7	0850101	0860101
EBRPL-R2X115/30xx-W	2xR-TUBE 30 W	E, F	1197	184	74	1180	590	7	0850402	0860402
EBRPL-R2X145/35xx-W	2xR-TUBE 35 W	H, I	1497	184	74	1480	740	7	0850404	0860404

## Accessories

Model	Description	Prod. code
EBRPLE 1..	End cap for EBRPL 1..	0212372
EBRPLE 2..	End cap for EBRPL 2..	0217864
ZEL-AD-GESIS-TOP 3-POL	T-distributor adaptor, 3 pin, Wieland GESIS-TOP for GST18i3	0212371
ZEL-BU-GESIS-TOP-2-POL-DA	WIELAND-GESIS connecting socket, BST14i2, 2-core, blue, DALI, 1 pc.	0212526
ZEL-ST-GESIS-TOP-2-POL-DA	WIELAND-GESIS connecting plug, BST14i2, 2-core, blue, DALI, 1 pc.	0212527

## Recessed luminaire series EP-R for panelled ceilings

**Design:** Recessed luminaire for mounting in modular 100 x 100 panel ceilings with open panel joints. Housing in white powder coat finish steel (similar to RAL9016) with cable entry in the luminaire top and pre-stamped knock-out cable entries in the end pieces. In the luminaire, integral diffuser retention clips for secure fastening of the diffuser. The luminaire has an IP20 protection rating, the light aperture an IP40 protection rating. For RIDI-TUBE lamps (order separately).

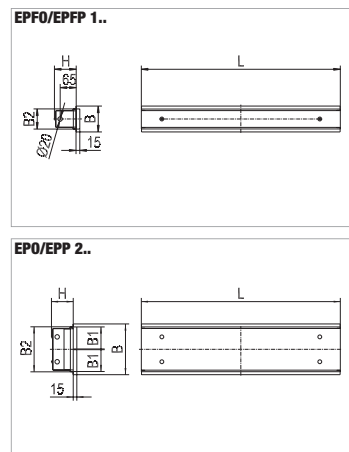
**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Installation in metal panelled ceilings with the supplied fixing brackets. Not suitable for panelled ceilings with filler strips.

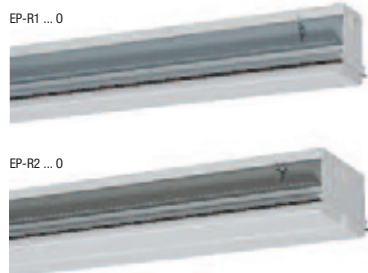
**Note:** Luminaires with IP54 protection rating (EPF-R ...) see the chapter entitled „Luminaires with higher protection rating“



acc. to DIN EN 60598/VDE 0711

### EP-R ... O

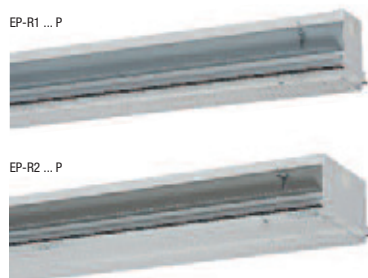
Acrylic diffuser, opal, in UV-stabilised PMMA.  
For lamp RIDI-TUBE, recommended cover: clear.



Model	Lamps max.	R-TUBE Category	Dimens. [mm]				B2	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H	B2				
EP-R1X115/30xx-O	1xR-TUBE 30 W	E, F	1247	105	95	84	7	0750001	0760001	
EP-R1X145/35xx-O	1xR-TUBE 35 W	H, I	1547	105	95	84	7	0750013	0760013	
EP-R2X055/15xx-O	2xR-TUBE 15 W	B	637	205	95	184	7	0750015	0760015	
EP-R2X115/30xx-O	2xR-TUBE 30 W	E, F	1247	205	95	184	7	0750039	0760039	
EP-R2X145/35xx-O	2xR-TUBE 35 W	H, I	1547	205	95	184	7	0750017	0760017	

### EP-R ... P

Acrylic diffuser, highly transparent, in UV-stabilised PMMA with embossed prismatic structure.  
For lamp RIDI-TUBE, recommended cover: matt.



Model	Lamps max.	R-TUBE Category	Dimens. [mm]				B2	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H	B2				
EP-R1X115/30xx-P	1xR-TUBE 30 W	E, F	1247	105	95	84	7	0750011	0760011	
EP-R1X145/35xx-P	1xR-TUBE 35 W	H, I	1547	105	95	84	7	0750014	0760014	
EP-R2X055/15xx-P	2xR-TUBE 15 W	B	637	205	95	184	7	0750016	0760016	
EP-R2X115/30xx-P	2xR-TUBE 30 W	E, F	1247	205	95	184	7	0750019	0760019	
EP-R2X145/35xx-P	2xR-TUBE 35 W	H, I	1547	205	95	184	7	0750018	0760018	

## Accessories

Model	Description	Prod. code
WEPO 136	Repl. diffuser for EP/EPF 136 opal PMMA	0200024
WEPO 158	Repl. diffuser for EP/EPF 158 opal PMMA	0200025
WEPO 218	Repl. diffuser for EP/EPF 218 opal PMMA	0200026
WEPO 236	Repl. diffuser for EP/EPF 236 opal PMMA	0200027
WEPO 258	Repl. diffuser for EP/EPF 258 opal PMMA	0200028
WEPP 136	Repl. diffuser for EP/EPF 136 prismatic PMMA	0200030
WEPP 158	Repl. diffuser for EP/EPF 158 prismatic PMMA	0200031
WEPP 218	Repl. diffuser for EP/EPF 218 prismatic PMMA	0200032
WEPP 236	Repl. diffuser for EP/EPF 236 prismatic PMMA	0200033
WEPP 258	Repl. diffuser for EP/EPF 258 prismatic PMMA	0200034

# Refurbishment luminaire ESLE-R

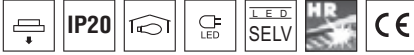
## Refurbishment luminaire ESLE-R ... for exchanging against old luminaires

**Luminaire housing:** Stand alone luminaire for refurbishment and replacement. Housing in white powder coated steel (similar to RAL 9016). Smooth housing underside without visible joints, with recessed gear tray housing. Non-standard luminaire dimensions can be supplied. Versions with DALI-EVG, sensors, exhaust air etc. possible. If required, contact the manufacturer.

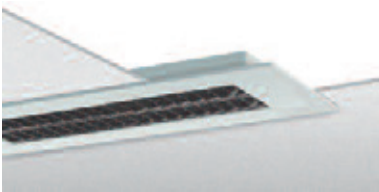
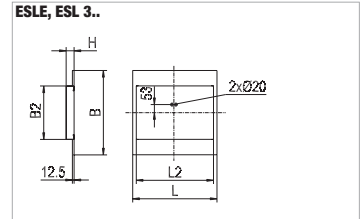
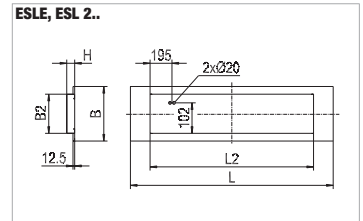
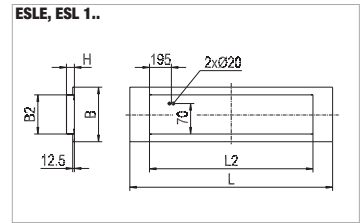
**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.



acc. to DIN EN 60598/VDE 0711



### ESLE-R ... SM

Parabolic mirror louvre SM in high-reflectance, silk matt anodised super-purity aluminium with silver coating. For RIDI-TUBE lamp, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	Dimens. (mm)			B2	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	L2			
ESLE-R1X085/25xx-SM	1xR-TUBE 25 W	C	1099	312	60	870	185	0850413	0860413
ESLE-R1X115/30xx-SM	1xR-TUBE 30 W	E, F	1247	310	60	1170	185	0850417	0860417
ESLE-R2X085/25xx-SM	2xR-TUBE 25 W	C	1099	312	60	870	185	0850420	0860420
ESLE-R2X115/30xx-SM	2xR-TUBE 30 W	E, F	1247	310	60	1170	185	0850422	0860422
ESLE-R3X055/10xx-SM	3xR-TUBE 10 W	A	622	622	60	570	395	0850425	0860425



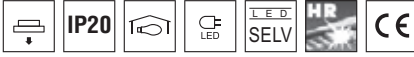
## Refurbishment luminaire series ESL-R ... for installation into old luminaires

**Luminaire housing:** Stand alone luminaire for refurbishment to be mounted in existing luminaires. Housing in white powder coated steel (similar to RAL 9016). Smooth housing underside without visible joints, with recessed gear tray housing. Non-standard luminaire dimensions can be supplied. Versions with DALI-EVG, sensors, exhaust air etc. possible. If required, contact the manufacturer. As the fixing kit must be adjusted to the existing luminaire, this is only available on request.

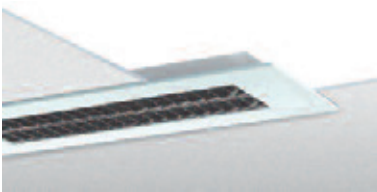
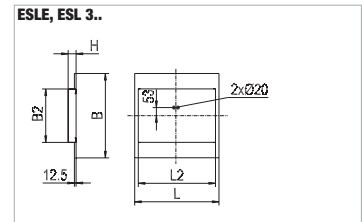
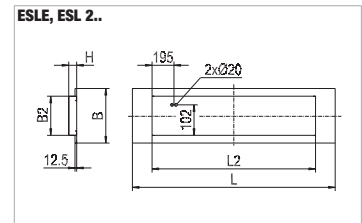
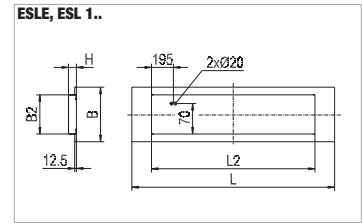
**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.



acc. to DIN EN 60598/VDE 0711



**ESL-R ... SM**

Parabolic mirror louvre SM in high-reflectance, silk matt anodised super-purity aluminium with silver coating.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]				el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	L2	B2		
ESL-R1X115/30xx-SM	1xR-TUBE 30 W	E, F	1255	330	60	1170	185	0850433	0860433
ESL-R1X145/35xx-SM	1xR-TUBE 35 W	H, I	1555	330	60	1470	185	0850436	0860436
ESL-R1X145/40xx-SM	1xR-TUBE 40 W	H, I	1555	330	60	1470	185	0850527	0860527
ESL-R2X115/30xx-SM	2xR-TUBE 30 W	E, F	1255	630	60	1170	185	0850438	0860438
ESL-R2X145/35xx-SM	2xR-TUBE 35 W	H, I	1555	630	60	1470	185	0850440	0860440
ESL-R3X055/10xx-SM	3xR-TUBE 10 W	A	630	630	60	570	395	0850442	0860442





RIDI looks back on a long tradition in the manufacture of ball-resistant luminaires for sport halls. With its SHL/SHLA and ABR/EBR ... series, RIDI offers a range of luminaires suitable for universal sports facility application. Special optical control units which comply fully with the optical and mechanical requirements of sports hall application are integrated in the luminaires. Luminaires used in sports halls are tested as ball-proof in accordance with DIN 18032.

The following ball-resistant luminaire series (LED) are available for use in **sports halls**:

Sports hall surface mounted luminaire **SHL-L** and recessed luminaire **ESHL-L** feature a light area protected against the ingress of dirt by a cover panel in the following versions:









- PSB** fitted with a prismatic glazing panel
- W** with a glazing panel and white louvre
- SM** with a glazing panel and a specular parabolic louvre

The tried and tested surface-mounted louvre luminaires **ABR-L** and recessed louvres **EBR-L** in the version:

- T** white steel louvre strengthened with round section bars, ball-resistant

Moreover, the newly developed **ROBUST** and **HERO** industrial luminaries have also been inspected for ball-resistance and can be used in gymnasiums.

The ball-resistant **RLS-LED** display lights represent a creative alternative for illuminating sports facilities.

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	<b>HERO</b> ball-resistant industrial luminaires, closed, with RIDI LED modules	244
	<b>SHL-L</b> Ball-proof surface-mounted luminaires with panel cover	246
	<b>ABR-L</b> Surface-mounted luminaires with ball-proof louvres, with mesh or panel cover	248
	<b>ESHL-L</b> Ball-proof recessed luminaires with panel cover	250
	<b>EBR-L</b> Recessed luminaires with ball-proof louvres, with mesh or panel cover	252
	<b>RLS1-LED / RLS2-LED</b> Display lights, ball-resistant, with LED COB module	254
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Sports hall luminaires SHL-L, ESHL-L, ABR-L und EBR-L with pre-fitted LED lamp L-TUBE-B (for details, see page 24)



# ROBUST ...

## ROBUST ...

**Design:** Surface-mounted industrial luminaire with IP66 protection rating for ceiling, pendant or trunking mounting. Stable luminaire housing in die cast aluminium, grey, powder coated, colour similar to RAL7040. RIDI-LED modules formed as linear circuit boards. Panel made of toughened safety glass, structured, fixed to the housing with screws. Max. ambient temperature 45°C at 300mm ceiling clearance (only with ZBS-D-HT ROBUST (0217884) accessory – to be ordered separately). Safety class I. Impact resistance IK09.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- dim. conv. DALI: Electronic DALI converter for LED, 100-240 VAC, 50/60 Hz, 100-250 VDC and internal connecting terminal, 5 x 2.5 mm<sup>2</sup>. Mains cable 5 x 1.0 mm<sup>2</sup>, transparent with open end, length 2 m. Suitable for DC operation and usage in central battery systems.
- El. conv.: Electronic converter for LED, 100-240 VAC, 50/60 Hz, 100-250 VDC and internal connecting terminal. Mains cable 3 x 1.0 mm<sup>2</sup>, transparent with open end, length 2 m. Suitable for DC operation and usage in central battery systems.

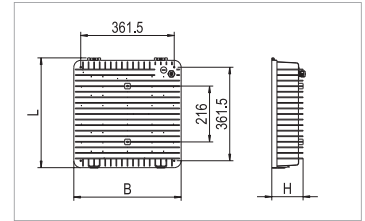
**Mounting:** Ceiling surface mounting using suitable accessories. Pendant mounting (chain or wire) using suitable fixing kits. Trunking mounting using suitable accessories.

### Note „ball resistant“:

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.

### Note on “Food Hygiene Act“:

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.



### ROBUST ...-B

Parabolic mirror louvre, wide beam, made of high-reflectance specular super-purity aluminium.

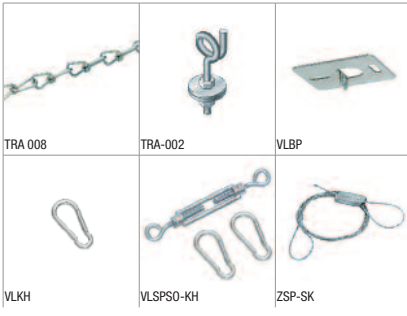
Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
ROBUST-LED 15000/840-B	4xLED-M 27 W	15630	113	138	840	425	414	131	0650575	0660575
ROBUST-LED 23000/840-B	4xLED-M 40 W	23450	170	137	840	425	414	131	0650576	0660576



### ROBUST ...-T

Parabolic mirror louvre, narrow beam, made of high-reflectance specular super-purity aluminium.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
ROBUST-LED 15000/840-T	4xLED-M 27 W	15800	113	139	840	425	414	131	0650577	0660577
ROBUST-LED 23000/840-T	4xLED-M 40 W	23700	170	139	840	425	414	131	0650578	0660578



## Accessories

Model	Description	Prod. code
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
TRA-002	Luminaire hanger M5 x 20 swing hooks, galvanized steel	0200223
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888
VLSPSO-KH	Tension hook w. loop and carabiner adj. 50 mm, max. 20kg 1pc	0208347
ZBS-D ROBUST	Ceiling fixture for ROBUST, H=30MM	0217882
ZBS-D-HT ROBUST	Ceiling fixture for ROBUST, H=300MM, high temperature	0217884
ZBS-K ROBUST	Chain fixture, order chain or wire separately	0217883
ZBS-TRAS ROBUST	Luminaire fixture ROBUST to TRAS, set	0217886
ZBS-VLT ROBUST	Luminaire fixture ROBUST to VLT, set	0217885
ZSP-SK-3M	Wire pendant loop clamp, D=2.0mm, L=3.0m, 1pc, max. 45kg	0207880



# HERO ...

## HERO ...

**Design:** LED surface-mounted industrial luminaire with a protection rating of IP64 for ceiling surface or pendant mounting. Stable, compact luminaire housing comprising individual aluminium profiles, white, powder coated, colour similar to RAL 9016. Luminaire body structure made up of individual aluminium profiles with sturdy cooling fins. The resulting thermal air circulation guarantees optimum heat management for high luminous flux levels. Optical control using lens arrays fitted with mid-power LEDs for maximum luminaire efficiency.

LED fitted with nanocoating for increased resistance to corrosive gasses.

Lenses covered by a clear PMMA panel.

Safety class I. Impact resistance IK04.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), 6500 Kelvin (865), other colour temperatures possible on request.

### Electrical versions:

- dim. conv. DALI: Electronic DALI converter for LED, 220-240V, 0/50-60Hz. Mains power cable 5x1.0mm<sup>2</sup> transparent with open end, 2m long, mounted to the luminaire by cable screw. Suited for direct current operation and the use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240V, 0/50-60Hz. Mains power cable 3x1.0mm<sup>2</sup> transparent with open end, 2m long, mounted to the luminaire by cable screw. Suited for direct current operation and the use in central battery systems.

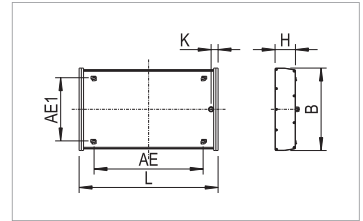
**Mounting:** Ceiling surface mounting using suitable accessories. Pendant mounting (chain, wire) using the relevant fixing kits. Rail mounting on trunking TRAS or VLTO using suitable accessories.

### Note „ball resistant“:

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.



acc. to DIN EN 60598/VDE 0711



### Non-standard designs:

- Emergency lighting versions (UR + Z)
- RAL colours

## HERO ...-S

Industrial luminaire made of extruded sectional aluminium with spot lens optics 30°



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	K		
HERO 1260-840 S-HT	4xLED-M 25 W	12580	115	109	840	337	372	110	32	0657469	0667469
HERO 1260-865 S-HT	4xLED-M 25 W	12580	115	109	865	337	372	110	32	0657470	0667470
HERO 1500-840 S	4xLED-M 30 W	14500	128	113	840	337	372	110	32	0657465	0667465
HERO 1500-865 S	4xLED-M 30 W	14500	128	113	865	337	372	110	32	0657466	0667466
HERO 2500-840 S-HT	8xLED-M 25 W	25160	230	109	840	627	372	110	32	0657471	0667471
HERO 2500-865 S-HT	8xLED-M 25 W	25160	230	109	865	627	372	110	32	0657472	0667472
HERO 3000-840 S	8xLED-M 30 W	29000	276	105	840	627	372	110	32	0657467	0667467
HERO 3000-865 S	8xLED-M 30 W	29000	276	105	865	627	372	110	32	0657468	0667468

## HERO ...-M

Industrial luminaire made of extruded sectional aluminium with medium lens optics 60°



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	K		
HERO 1260-840 M-HT	4xLED-M 25 W	12850	115	111	840	337	372	110	32	0657477	0667477
HERO 1260-865 M-HT	4xLED-M 25 W	12850	115	111	865	337	372	110	32	0657478	0667478
HERO 1500-840 M	4xLED-M 30 W	14600	128	114	840	337	372	110	32	0657473	0667473
HERO 1500-865 M	4xLED-M 30 W	14600	128	114	865	337	372	110	32	0657474	0667474
HERO 2500-840 M-HT	8xLED-M 25 W	25700	230	111	840	627	372	110	32	0657479	0667479
HERO 2500-865 M-HT	8xLED-M 25 W	25700	230	111	865	627	372	110	32	0657480	0667480
HERO 3000-840 M	8xLED-M 30 W	29200	276	105	840	627	372	110	32	0657475	0667475
HERO 3000-865 M	8xLED-M 30 W	29200	276	105	865	627	372	110	32	0657476	0667476

**HERO ...-SF**

Industrial luminaire made of extruded sectional aluminium with super-flood lens optics 110°



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	K		
HERO 1260-840 SF-HT	4xLED-M 25 W	12747	115	110	840	337	372	110	32	0657461	0667461
HERO 1260-865 SF-HT	4xLED-M 25 W	12747	115	110	865	337	372	110	32	0657462	0667462
HERO 1500-840 SF	4xLED-M 30 W	14300	128	111	840	337	372	110	32	0657457	0667457
HERO 1500-865 SF	4xLED-M 30 W	14300	128	111	865	337	372	110	32	0657458	0667458
HERO 2500-840 SF-HT	8xLED-M 25 W	25520	230	110	840	627	372	110	32	0657463	0667463
HERO 2500-865 SF-HT	8xLED-M 25 W	25520	230	110	865	627	372	110	32	0657464	0667464
HERO 3000-840 SF	8xLED-M 30 W	28600	276	103	840	627	372	110	32	0657459	0667459
HERO 3000-865 SF	8xLED-M 30 W	28600	276	103	865	627	372	110	32	0657460	0667460

**Accessories**



Model	Description	Prod. code
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
TRA-002	Luminaire hanger M5 x 20 swing hooks, galvanized steel	0200223
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888
VLSPSO-KH	Tension hook w. loop and carabiner adj. 50 mm, max. 20kg 1pc	0208347
ZBS-D HERO	Deckenbefestiger HERO	0218427
ZBS-TRAS HERO	Luminaire fixing HERO to TRAS	0217888
ZBS-VLT HERO	Luminaire fixing HERO to VLT	0217887
ZBS-W HERO	Wall mount HERO	0218426
ZSP-SK-3M	Wire pendant loop clamp, D=2.0mm, L=3.0m, 1pc, max. 45kg	0207880



# Surface-mounted sports hall luminaires SHL-L

## Luminaire series SHL-L

**Design:** Closed surface-mounted luminaire, ball-proof, for ceiling, pendant or trunking rail mounting. Includes RIDI-LED lamp L-TUBE-B. Rigid luminaire housing in particularly scratch-resistant white powder coated steel (colour similar to RAL 9016). Pre-fitted top mirror reflector in high-reflectance super-purity aluminium with silver coating, matt anodised. Narrow frame in extruded sectional aluminium with panel in impact-resistant UV stabilised PMMA. Frame held in the housing with spring clips, hinges down on both sides.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Lampholder system:** Aluminium cap profile fixture on the luminaire side for efficient heat transfer, spring steel fixing clip on the lamp side for positive locking connection with cap profile. Locking on the longitudinal side by means of a catch. Easy removal through blue plastic component. Plug and socket electrical connection.

### Electrical versions:

- dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and external connector block. Suitable for direct voltage operation and use in central battery systems
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and external connector block. Suitable for direct voltage operation and use in central battery systems

**Mounting:** Pendant and ceiling mounting using suitable fixing kits. Time-saving click mounting to trunking system TRAS without opening the luminaire. Ball resistant pendant mounting of the 1 and 2-lamp luminaires onto one length of trunking, 3 and 4-lamp luminaires onto two parallel lengths of trunking. With accessory SHL-DB, 0227922, the luminaires can be mounted directly on the ceiling or fastening surface without trunking. For this, the luminaire must be opened. Continuous mounting using external connector SHL-LV, face end break-out D 20 for through wiring.

### Note regarding wiring:

SHL. 180, 280: all lamps are wired to L1. (180 with 1 device, 280 with 2 devices)

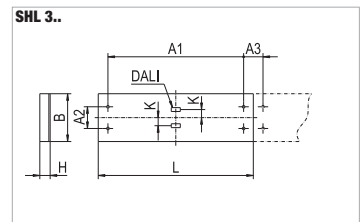
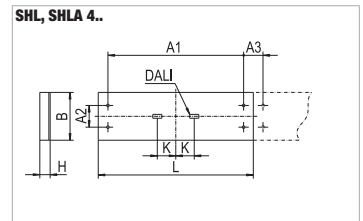
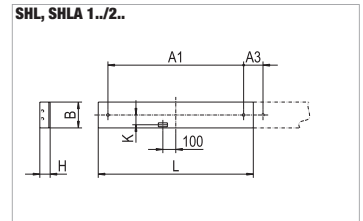
SHL. 380: central lamp wired to L1, outer lamps to L2. (3 devices)

SHL. 480: both central lamps wired to L1, outer lamps to L2. (4 devices)

Other wiring arrangements are available on request.

### Note „ball resistant“:

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.



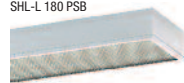
SHL-L 280 PSB



### SHL-L ... PSB

Prismatic panel PSB made of PMMA, with external prisms.

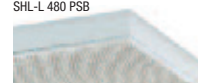
SHL-L 180 PSB



SHL-L 380 PSB



SHL-L 480 PSB



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]						el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	A1	A2	A3		
SHL-L 180/935-840 PSB	1xL-TUBE-B 58W	7200	67	107	840	1500	200	80	1350	-	150	0650610	0660610
SHL-L 280/1870-840 PSB	2xL-TUBE-B 58W	15390	134	114	840	1500	248	80	1350	-	150	0650611	0660611
SHL-L 380/2520-840 PSB	3xL-TUBE-B 51W	20740	176	117	840	1500	370	80	1350	224	150	0650612	0660612
SHL-L 480/3360-840 PSB	4xL-TUBE-B 51W	27653	235	117	840	1500	466	80	1350	216	150	0650613	0660613

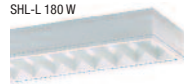
SHL-L 280 W



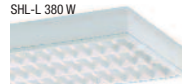
### SHL-L ... W

Panel in clear PMMA, white louvre W in white coated aluminium.

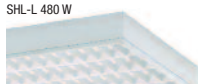
SHL-L 180 W



SHL-L 380 W



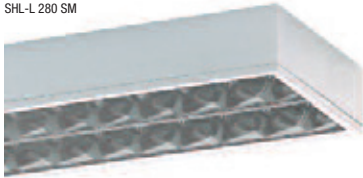
SHL-L 480 W



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]						el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	A1	A2	A3		
SHL-L 180/935-840 W	1xL-TUBE-B 58W	7200	67	107	840	1500	200	80	1350	-	150	0650618	0660618
SHL-L 280/1870-840 W	2xL-TUBE-B 58W	14399	134	107	840	1500	248	80	1350	-	150	0650619	0660619
SHL-L 380/2520-840 W	3xL-TUBE-B 51W	19404	176	110	840	1500	370	80	1350	224	150	0650620	0660620
SHL-L 480/3360-840 W	4xL-TUBE-B 51W	25872	235	110	840	1500	466	80	1350	216	150	0650621	0660621



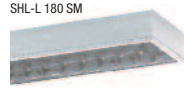
SHL-L 280 SM



## SHL-L ... SM

Panel in clear PMMA, parabolic mirror louvre SM in high-reflectance matt anodised super-purity aluminium with silver coating.

SHL-L 180 SM



SHL-L 380 SM



SHL-L 480 SM



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code	
							B	H	A1	A2			A3
SHL-L 180/935-840 SM	1xL-TUBE-B 58 W	8658	67	129	840	1500	200	80	1350	-	150	0650622	0660622
SHL-L 280/1870-840 SM	2xL-TUBE-B 58 W	16101	134	120	840	1500	248	80	1350	-	150	0650623	0660623
SHL-L 380/2520-840 SM	3xL-TUBE-B 51 W	21697	176	123	840	1500	370	80	1350	224	150	0650624	0660624
SHL-L 480/3360-840 SM	4xL-TUBE-B 51 W	28930	235	123	840	1500	466	80	1350	216	150	0650625	0660625

## Accessories



Model	Description	Prod. code
SHL-DB	Ceiling fixing kit for SHL	0227922
SHL-LV 2..	Luminaire connector for SHL 180/280, 1pc	0207945
SHL-LV 3..	Luminaire connector for SHL 380/380-4, 1pc	0207946
SHL-LV 4..	Luminaire connector for SHL 480, 1 pc.	0208389
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
TRA 168/216/224-SHL 3../4..	Cross bar for SHL 3.. + 4.., fixing distance 168,216,224mm	0200999
<sup>1)</sup> TRA-002	Luminaire hanger M5 x 20 swing hooks, galvanized steel	0200223
TRAS-BSHL 1/2..	Luminaire fixing SHL 1/2-lamp incl. ZKA-SHL (1/luminaire)	0207869
TRAS-BSHL 4..	Lum. fixing SHL 4../4..-3 1/2-lamp incl. ZKA-SHL (1/lum.)	0207942
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888
VLSPSO-KH	Tension hook w. loop and carabiner adj. 50 mm, max. 20kg 1pc	0208347
ZGH	Rubber suction device for removal of the protective glass	0203626
ZKA-SHL	Clamp cover for SHL, 1pc	0207980
ZRO	Frame opener	0204003
ZSP-SK-3M	Wire pendant loop clamp, D=2.0mm, L=3.0m, 1pc, max. 45kg	0207880

**Note:** Fixing accessories for TRAS are featured under accessories at the end of the chapter.

<sup>1)</sup> 2 pcs. for SHL 1./2..., 4 pcs. for SHL 3../4... Luminaire must be opened to allow installation. Include ZKA-SHL - 0207980 in the order.

# Surface-mounted sports hall luminaires ABR-L

## Luminaire series ABR-L

**Design:** Surface-mounted luminaire for ceiling, pendant or trunking rail mounting. Includes RIDI-LED lamp L-TUBE-B. Luminaire housing in white powder coated steel, colour similar to RAL 9016. End caps with additional break-outs for cables or through wiring and for fastening with M5 screws for continuous luminaire mounting. Louvre fixed using fastening catches, hinges down on both sides with automatic connection to the earth conductor.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Lampholder system:** Aluminium cap profile fixture on the luminaire side for efficient heat transfer, spring steel fixing clip on the lamp side for positive locking connection with cap profile. Locking on the longitudinal side by means of a catch. Easy removal through blue plastic component. Plug and socket electrical connection.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Pendant mounting using suitable fixing kits. Ceiling mounting using the provided slotted washers. Rail mounting on trunking TRAS or VLTO. Ball resistant ceiling or pendant mounting of the 2, 3 and 4-lamp luminaires is only possible with 4-point fixing on two parallel lengths of trunking. When using trunking, 2 parallel rails are required for this.

**Note regarding wiring:**

ABR. 180, 280: all lamps are wired to L1. (180 with 1 device, 280 with 2 devices)

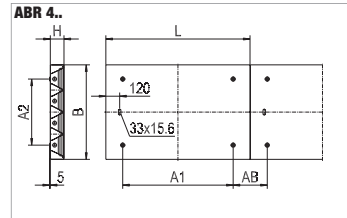
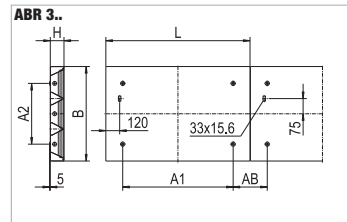
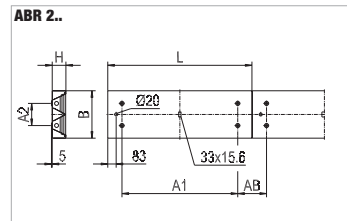
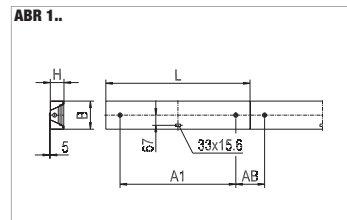
ABR. 380: central lamp wired to L1, outer lamps to L2. (3 devices)

ABR. 480: both central lamps wired to L1, outer lamps to L2. (4 devices)

Other wiring arrangements are available on request.

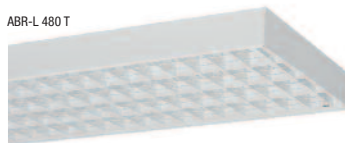
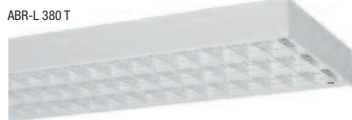
**Note „ball resistant“:**

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.



**ABR-L ... T**

Ball resistant to DIN 18032. White steel louvre with patented fastening catches in white coated steel, colour RIDI reflex white, similar to RAL9016, reinforced with circular rods.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	A1	A2		
ABR-L 180/935-840 T	1xL-TUBE-B 58W	7789	67	116	840	1549	181	95	1250	300	0650590	0660590
ABR-L 280/1870-840 T	2xL-TUBE-B 58W	15577	134	116	840	1549	308	95	1250	132	0650591	0660591
ABR-L 380/2520-840 T	3xL-TUBE-B 51W	20992	176	119	840	1549	481	95	1250	298	0650592	0660592
ABR-L 480/3360-840 T	4xL-TUBE-B 51W	27989	235	119	840	1549	620	95	1250	435	0650593	0660593

## Accessories



Model	Description	Prod. code
10-149	Suspension plate for ABR 2..	0210149
10-150	Suspension plate for ABR 3..	0210150
10-151	Suspension plate for ABR 4..	0210151
BAGI-ABR 258	Ball mesh guard for ABR 258 on VLT...	0208040
BAGI-ABR 358	Ball mesh guard for ABR 358 on VLT...	0208041
BAGI-ABR 458	Ball mesh guard for ABR 458 on VLT...	0208042
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
TRA 132 - ABR/EBR 2..	Cross bar for ABR/EBR 2-lamp, fixing distance 132 + 149mm	0200252
TRA 298 - ABR/EBR 3..	Cross bar for ABR/EBR 3-lamp, fixing distance 298mm	0200253
TRA 435 - ABR/EBR 4..	Cross bar for ABR/EBR 4-lamp, fixing distance 435mm	0200256
TRA-002	Luminaire hanger M5 x 20 swing hooks, galvanized steel	0200223
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888
VLSPSO-KH	Tension hook w. loop and carabiner adj. 50 mm, max. 20kg 1pc	0208347
ZIDV 58/3/1,5	Through wiring T26-58W+T16-35/49/80W, 3x1.5mm <sup>2</sup> , max. 10A	0201202
ZIDV 58/5/1,5	Through wiring T26-58W+T16-35/49/80W, 5x1.5mm <sup>2</sup> , max. 10A	0200255
ZIDV 58/5/2,5	Through wiring T26-58W+T16-35/49/80W, 5x2.5mm <sup>2</sup> , max. 16A	0200638
ZRO	Frame opener	0204003
ZSP-SK-3M	Wire pendant loop clamp, D=2.0mm, L=3.0m, 1pc, max. 45kg	0207880

**Note:** Fixing accessories for VLT / VLTO are featured under accessories for pendant mounting with trunking VLTO at the end of the chapter.



# Recessed sports hall luminaires ESHL-L

## Luminaire series ESHL-L

**Design:** Closed recessed single luminaire, ball-resistant. Includes RIDI-LED lamp L-TUBE-B. Stable luminaire housing in white powder-coated steel, colour similar to RAL9016. End caps with additional break-off openings for mains cables or through wiring. Narrow frame in extruded sectional aluminium with panel in tough UV-stabilised PMMA. Frame held invisibly in the luminaire housing by spring catches, hinges down on both sides with automatic connection to the earth conductor.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Lampholder system:** Aluminium cap profile fixture on the luminaire side for efficient heat transfer, spring steel fixing clip on the lamp side for positive locking connection with cap profile. Locking on the longitudinal side by means of a catch. Easy removal through blue plastic component. Plug and socket electrical connection.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Prepared for mounting in different ceiling systems using suitable fixing kit (accessory). When mounting using fixing kit 10-713 or 10-717, with 3 x ... Watt lamps or more, a 6-point fixture is required. As a set contains 4 parts, the required number x must be determined:  $X = (n \times 6) / 4$ , whereby n = number of luminaires and result x is rounded up to the next highest number. Ball-proof ceiling surface mounting or pendant fixture of the 2, 3 and 4-lamp luminaires are only possible with 4-point fixture. When using trunking, 2 parallel rails are required for this.

### Note regarding wiring:

ESHL. 180, 280 all lamps are wired to L1. (180 with 1 device, 280 with 2 devices)

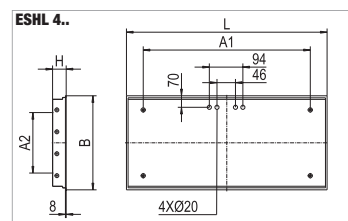
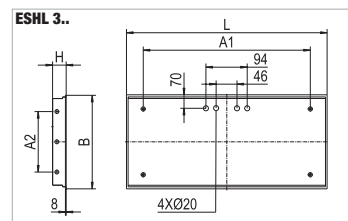
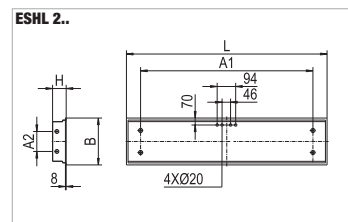
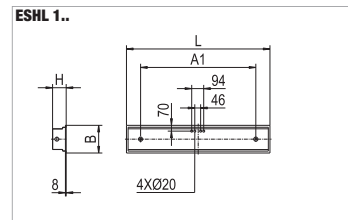
ESHL. 380: central lamp wired to L1, outer lamps to L2. (3 devices)

ESHL. 480: both central lamps wired to L1, outer lamps to L2. (4 devices)

Other wiring arrangements are available on request.

### Note „ball resistant“:

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.



### Non-standard designs:

- Design with toughened safety glass panel
- Designs with emergency lighting
- Paintwork finish in RAL colour
- Versions for 600 module size (EBRME) available on request

ESHL-L 180 W



### ESHL-L ... PSB

Prismatic panel PSB made of PMMA, with external prisms. Reflector made of high-reflectance matt anodised super-purity aluminium with silver coating, symmetric beam.

ESHL-L 280 W



ESHL-L 380 W



ESHL-L 480 W



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency	Luminous colour	Dimens. [mm]				LE*	BE*	Deckenart	el. conv. Prod. code	dim. conv. DALI Prod. code	
						L	B	H	A1						A2
ESHL-L 180/935-840 PSB	1xL-TUBE-B 58W	7200	67	107	840	1548	185	89	1250	-	1529	165	8 9	0850614	0860614
ESHL-L 280/1870-840 PSB	2xL-TUBE-B 58W	15390	134	114	840	1548	312	85	1250	132	1529	292	8 9	0850615	0860615
ESHL-L 380/2520-840 PSB	3xL-TUBE-B 51W	20740	176	117	840	1548	485	85	1250	298	1529	465	8 9	0850616	0860616
ESHL-L 480/3360-840 PSB	4xL-TUBE-B 51W	27653	235	117	840	1548	624	85	1250	435	1529	604	8 9	0850617	0860617

\* Ceiling cut-out

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

ESHL-L 180 W



ESHL-L 280 W



ESHL-L 380 W



ESHL-L 480 W



## ESHL-L ... W

Panel made of clear PMMA, white louvre W made of white coated aluminium. Reflector made of made of high-reflectance matt anodised super-purity aluminium with silver coating, symmetric beam.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency	Luminous colour	L	B	Dimens. [mm]			LE*	BE*	Deckenart	el. conv. Prod. code	dim. conv. DALI Prod. code	
								H	A1	A2						
ESHL-L 180/935-840 W	1xL-TUBE-B 58W	7200	67	107	840	1548	185	89	1250	-	1529	165	1	8 9	0850622	0860622
ESHL-L 280/1870-840 W	2xL-TUBE-B 58W	14399	134	107	840	1548	312	85	1250	132	1529	292	1	8 9	0850623	0860623
ESHL-L 380/2520-840 W	3xL-TUBE-B 51W	19404	176	110	840	1548	485	85	1250	298	1529	465	1	8 9	0850624	0860624
ESHL-L 480/3360-840 W	4xL-TUBE-B 51W	25872	235	110	840	1548	624	85	1250	435	1529	604	1	8 9	0850625	0860625

\* Ceiling cut-out

ESHL-L 380 SM



## ESHL-L ... SM

Panel in clear PMMA, parabolic mirror louvre SM in high-reflectance mat anodised super-purity aluminium with silver coating

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency	Luminous colour	L	B	Dimens. [mm]			LE*	BE*	Deckenart	el. conv. Prod. code	dim. conv. DALI Prod. code	
								H	A1	A2						
ESHL-L 180/935-840 SM	1xL-TUBE-B 58W	8050	67	120	840	1548	185	89	1250	-	1529	165	1	8 9	0850626	0860626
ESHL-L 280/1870-840 SM	2xL-TUBE-B 58W	16101	134	120	840	1548	312	85	1250	132	1529	292	1	8 9	0850627	0860627
ESHL-L 380/2520-840 SM	3xL-TUBE-B 51W	21697	176	123	840	1548	485	85	1250	298	1529	465	1	8 9	0850628	0860628
ESHL-L 480/3360-840 SM	4xL-TUBE-B 51W	28930	235	123	840	1548	624	85	1250	435	1529	604	1	8 9	0850629	0860629

\* Ceiling cut-out

## Accessories



Model	Description	Prod. code
10-031	Fixing kit EBR .58, for Wilhelmi sport hall ceilings	0210031
10-713	Universal fixing kit, 23 to 55mm clamping thickness	0210713
10-717	Universal fixing kit, 45 to 80mm clamping thickness	0210717
10-934	Suspension plate for EBR 2..	0210934
10-935	Suspension plate for EBR 3..	0210935
10-936	Suspension plate for EBR 4..	0210936
TRA 132 - ABR/EBR 2..	Cross bar for ABR/EBR 2-lamp, fixing distance 132 + 149mm	0200252
TRA 298 - ABR/EBR 3..	Cross bar for ABR/EBR 3-lamp, fixing distance 298mm	0200253
TRA 435 - ABR/EBR 4..	Cross bar for ABR/EBR 4-lamp, fixing distance 435mm	0200256
ZBS-SP.58-30	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 30 mm	0210076
ZBS-SP.58-35	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 35 mm	0210078
ZBS-SP.58-40	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 40 mm	0210079
ZBS-SP158-30	Fixing kit 158W f. hall plank ceilings, trunk. ht. 30 mm	0210987
ZBS-SP158-35	Fixing kit 158W f. hall plank ceilings, trunk. ht. 35 mm	0210988
ZBS-SP158-40	Fixing kit 158W f. hall plank ceilings, trunk. ht. 40 mm	0210989
ZIDV 58/3/1,5	Through wiring T26-58W+T16-35/49/80W, 3x1.5mm <sup>2</sup> , max. 10A	0201202
ZIDV 58/5/1,5	Through wiring T26-58W+T16-35/49/80W, 5x1.5mm <sup>2</sup> , max. 10A	0200255
ZIDV 58/5/2,5	Through wiring T26-58W+T16-35/49/80W, 5x2.5mm <sup>2</sup> , max. 16A	0200638
ZRO	Frame opener	0204003

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

# Recessed sports hall luminaires EBR-L

## Luminaire series EBR-L

**Design:** Recessed single luminaire, ball-proof. Includes RIDI-LED lamp L-TUBE-B. Luminaire housing in white powder coated steel, colour similar to RAL 9016. End caps with additional break-outs for cables or through wiring. Louvre fixed using fastening catches, hinges down on both sides with automatic connection to the earth conductor.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Lampholder system:** Aluminium cap profile fixture on the luminaire side for efficient heat transfer, spring steel fixing clip on the lamp side for positive locking connection with cap profile. Locking on the longitudinal side by means of a catch. Easy removal through blue plastic component. Plug and socket electrical connection.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Prepared for integration in different ceiling systems using suitable fixing kits (accessory). For compensation of uneven ceilings, with 3 x ... Watt lamps or more, 6-point fixture is possible. Ball-proof ceiling surface mounting or pendant fixture of the 2, 3 and 4-lamp luminaires are only possible with 4-point fixture. When using trunking, 2 parallel rails are required for this.

### Note regarding wiring:

EBR. 180, 280: all lamps are wired to L1. (180 with 1 device, 280 with 2 devices)

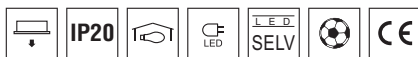
EBR. 380: central lamp wired to L1, outer lamps to L2. (3 devices)

EBR. 480: both central lamps wired to L1, outer lamps to L2. (4 devices)

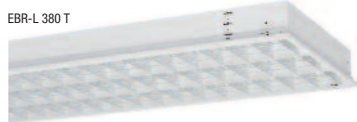
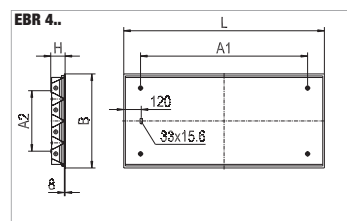
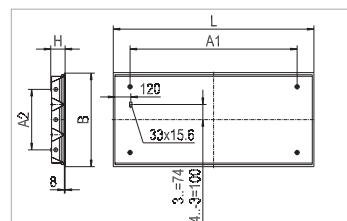
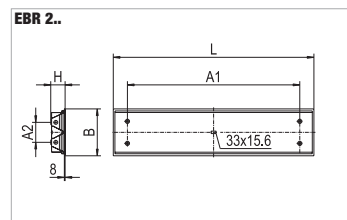
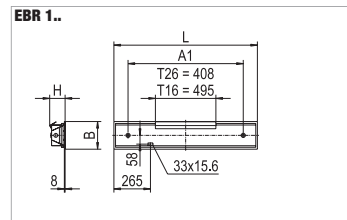
Other wiring arrangements are available on request.

### Note „ball resistant“:

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.



acc. to DIN EN 60598/VDE 0711



### EBR-L ... T

Ball resistant to DIN 18032. White steel louvre with patented fastening catches in white coated steel, colour RIDI reflex white, similar to RAL9016, reinforced with circular rods.

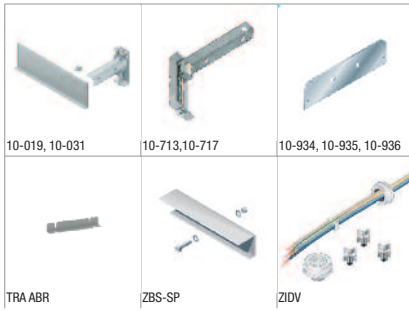
Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency	Luminous colour	L	B	Dimens. [mm]				LE*	BE*	Deckenart	el. conv. Prod. code	dim. conv. DALI Prod. code
								H	A1	A2						
EBR-L 180/935-840 T	1xL-TUBE-B 58W	7789	67	116	840	1549	185	100	-	-	1529	165	1	8 9	0850610	0860610
EBR-L 280/1870-840 T	2xL-TUBE-B 58W	15577	134	116	840	1549	312	95	1250	132	1529	292	1	8 9	0850611	0860611
EBR-L 380/2520-840 T	3xL-TUBE-B 51W	20992	176	119	840	1549	485	95	1250	298	1529	465	1	8 9	0850612	0860612
EBR-L 480/3360-840 T	4xL-TUBE-B 51W	27989	235	119	840	1549	624	95	1250	435	1529	604	1	8 9	0850613	0860613

\* Ceiling cut-out

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

1 Ceilings with wide area plaster board and mineral fibre boards, wood panelled ceilings  
 2 Ceilings with concealed support rails and symmetric mineral fibre and plaster board  
 3 Sprung metal tile ceilings  
 4 Ceilings with exposed T-bars

5 Ceilings with concealed support rails asymmetric mineral fibre board and sprung metal tiles  
 6 Continuous trim-strip ceilings  
 7 Metal plank ceilings  
 8 Mineral fibre board ceilings for sports hall luminaires  
 9 Metal plank ceilings for sports hall luminaires



10-019, 10-031

10-713, 10-717

10-934, 10-935, 10-936

TRA ABR

ZBS-SP

ZIDV

## Accessories

Model	Description	Prod. code
10-031	Fixing kit EBR .58, for Wilhelmi sport hall ceilings	0210031
10-713	Universal fixing kit, 23 to 55mm clamping thickness	0210713
10-717	Universal fixing kit, 45 to 80mm clamping thickness	0210717
10-934	Suspension plate for EBR 2..	0210934
10-935	Suspension plate for EBR 3..	0210935
10-936	Suspension plate for EBR 4..	0210936
TRA 132 - ABR/EBR 2..	Cross bar for ABR/EBR 2-lamp, fixing distance 132 + 149mm	0200252
TRA 298 - ABR/EBR 3..	Cross bar for ABR/EBR 3-lamp, fixing distance 298mm	0200253
TRA 435 - ABR/EBR 4..	Cross bar for ABR/EBR 4-lamp, fixing distance 435mm	0200256
ZBS-SP.58-30	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 30 mm	0210076
ZBS-SP.58-35	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 35 mm	0210078
ZBS-SP.58-40	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 40 mm	0210079
ZBS-SP158-30	Fixing kit 158W f. hall plank ceilings, trunk. ht. 30 mm	0210987
ZBS-SP158-35	Fixing kit 158W f. hall plank ceilings, trunk. ht. 35 mm	0210988
ZBS-SP158-40	Fixing kit 158W f. hall plank ceilings, trunk. ht. 40 mm	0210989
ZIDV 58/3/1,5	Through wiring T26-58W+T16-35/49/80W, 3x1.5mm <sup>2</sup> , max. 10A	0201202
ZIDV 58/5/1,5	Through wiring T26-58W+T16-35/49/80W, 5x1.5mm <sup>2</sup> , max.10A	0200255
ZIDV 58/5/2,5	Through wiring T26-58W+T16-35/49/80W, 5x2.5mm <sup>2</sup> , max. 16A	0200638

# Industrial hibay luminaire RLS1-LED

## Industrial hibay luminaire RLS1-LED with LED modules, IP65

**Design:** Hibay luminaire, luminaire housing in die-cast aluminium, white powder coated, colour similar to RAL9016. Reflector housing in die-cast aluminium with cooling fins for optimum, efficient heat dissipation. Protection rating IP65. Foamed gasket between the housing halves and between the luminaire housing and reflector.

LED COB module for high luminous flux levels of 5,000 to 16,000 lumen with efficient optical control in a minimum of space. Optical control with durable lens in real glass, screwed to the reflector housing using a retaining ring with sealing profile. LED converter mounted in the luminaire housing. Integrated holding bracket to accommodate the fixing accessories.

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

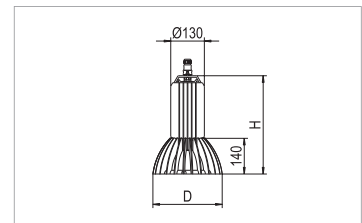
- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Electrical connection via an externally accessible connector to up to 3x2.5mm<sup>2</sup>. The connecting socket is included in the delivery.
- el. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Electrical connection via an externally accessible connector to up to 3x2.5mm<sup>2</sup>. The connecting socket is included in the delivery.

**Mounting:** Wire pendant, tube pendant, chain and ceiling mounting with the relevant accessories. Ball-resistant mounting only with suspension cable (Item no.: 0202425), ceiling fixture (Item no.: 0205887) and carabiner hooks (Item no.: 0205888).

### Note „ball resistant“:

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.

**Note:** For feed-through wiring from lamp to lamp, a conduit/junction box must be provided on site.



### RLS1-LED ... B

Lens in real glass with wide-beam light distribution.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]		el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
						D	H		
RLS1-LED xxWS-1000B830	1xLED-M 70 W	9740	80	121	830	270	380	0321471	0331471
RLS1-LED xxWS-1000B840	1xLED-M 70 W	9740	80	121	840	270	380	0321472	0331472
RLS1-LED xxWS-1600B830	1xLED-M 102 W	15930	115	138	830	270	380	0321473	0331473
RLS1-LED xxWS-1600B840	1xLED-M 102 W	15930	115	138	840	270	380	0321474	0331474
RLS1-LED xxWS-500B830	1xLED-M 40 W	5360	47	114	830	270	380	0321469	0331469
RLS1-LED xxWS-500B840	1xLED-M 40 W	5360	47	114	840	270	380	0321470	0331470

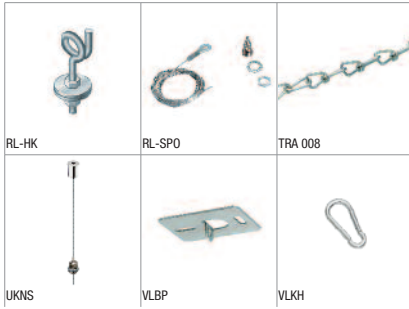


### RLS1-LED ... T

Lens in real glass with narrow-beam light distribution.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]		el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
						D	H		
RLS1-LED xxWS-1000T830	1xLED-M 70 W	9850	80	123	830	270	380	0321477	0331477
RLS1-LED xxWS-1000T840	1xLED-M 70 W	9850	80	123	840	270	380	0321478	0331478
RLS1-LED xxWS-1600T830	1xLED-M 102 W	15850	115	137	830	270	380	0321479	0331479
RLS1-LED xxWS-1600T840	1xLED-M 102 W	15850	115	137	840	270	380	0321480	0331480
RLS1-LED xxWS-500T830	1xLED-M 40 W	5400	47	114	830	270	380	0321475	0331475
RLS1-LED xxWS-500T840	1xLED-M 40 W	5400	47	114	840	270	380	0321476	0331476





## Accessories

Model	Description	Prod. code
RL-SPO 1,5	Wire pendant for RL.1/RL.2 1.5m with loop, 1 pc	0202425
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888



# Industrial hibay luminaire RLS2-LED

## Industrial hibay luminaire RLS2-LED with LED modules, IP65

**Design:** Hibay luminaire, luminaire housing in die-cast aluminium, white powder coated, colour similar to RAL9016. Reflector housing in die-cast aluminium with cooling fins for optimum, efficient heat dissipation. Protection rating IP65. Foamed gasket between the housing halves and between the luminaire housing and reflector.

LED-COB module for high luminous flux levels and efficient optical control. Optical control with durable lens in real glass, screwed to the reflector housing using a retaining ring with sealing profile. LED converter mounted in the luminaire housing. Integrated holding bracket to accommodate the fixing accessories.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), 6500 Kelvin (865), other colour temperatures possible on request.

### Electrical versions:

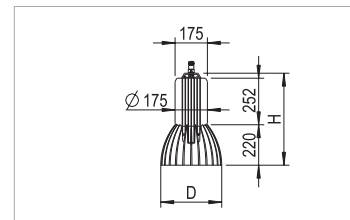
- dim. conv. DALI: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Electrical connection via an externally accessible connector to up to 3x2.5mm<sup>2</sup>. The connecting socket is included in the delivery.
- el. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Electrical connection via an externally accessible connector to up to 3x2.5mm<sup>2</sup>. The connecting socket is included in the delivery.

**Mounting:** Wire pendant, tube pendant, chain and ceiling mounting with the relevant accessories. Ball resistant mounting only with chain (2x item no. 0200251), ceiling fixing (2x item no. 0205887) and carabiner hook (4x item no. 0205888)

### Note „ball resistant“:

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.

**Note:** For feed-through wiring from lamp to lamp, a conduit/junction box must be provided on site.



### RLS2-LED ... B

Lens in real glass with wide-beam light distribution.



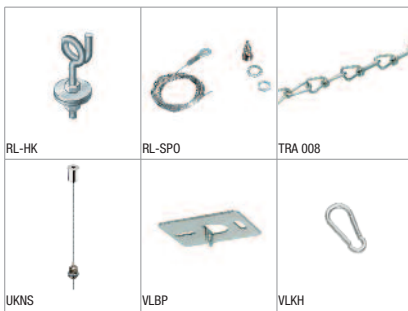
Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]		el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
						D	H		
RLS2-LED xxWS-2200B840	1xLED-M 160 W	21300	170	125	840	330	500	0321483	0331483
RLS2-LED xxWS-2200B865	1xLED-M 160 W	22300	170	131	865	330	500	0321484	0331484
RLS2-LED xxWS-2800B840	1xLED-M 222 W	27340	237	115	840	330	500	0321481	0331481
RLS2-LED xxWS-2800B865	1xLED-M 222 W	28270	237	119	865	330	500	0321482	0331482



**RLS2-LED ... T**  
Lens in real glass with narrow-beam light distribution.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]		el. conv.	dim. conv. DALI
						D	H	xx=ND Prod. code	xx=DA Prod. code
RLS2-LED xxWS-2200T840	1xLED-M 160 W	21300	170	125	840	330	500	0321487	0331487
RLS2-LED xxWS-2200T865	1xLED-M 160 W	22300	170	131	865	330	500	0321488	0331488
RLS2-LED xxWS-2800T840	1xLED-M 222 W	27340	237	115	840	330	500	0321485	0331485
RLS2-LED xxWS-2800T865	1xLED-M 222 W	28270	237	119	865	330	500	0321486	0331486

## Accessories



Model	Description	Prod. code
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888



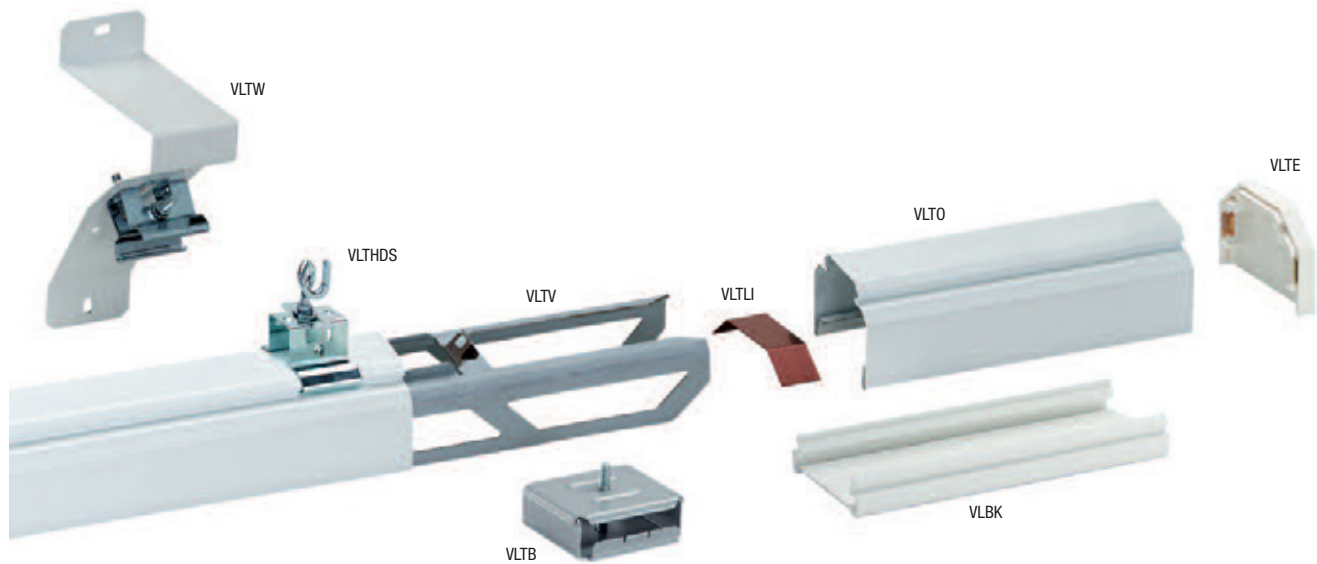
## TRAS accessories for suspended installation with trunking



Model	Description	Prod. code
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
TRA 132 - ABR/EBR 2..	Cross bar for ABR/EBR 2-lamp, fixing distance 132 + 149mm	0200252
TRA 168/216/224-SHL 3../4..	Cross bar for SHL 3.. + 4.., fixing distance 168,216,224mm	0200999
TRA 298 - ABR/EBR 3..	Cross bar for ABR/EBR 3-lamp, fixing distance 298mm	0200253
TRA 435 - ABR/EBR 4..	Cross bar for ABR/EBR 4-lamp, fixing distance 435mm	0200256
TRAS 3000	Galvanized steel trunking, L=3.0m, weight 3.9 kg	0207851
TRAS 4500	Galvanized steel trunking, L=4.5m, weight 5.9 kg	0207852
TRAS-A 1500	Galv. cover for TRAS, L=1.5m, ball resistant with TRAS-AB	0207853
TRAS-AB	Fixing plate for ball resistant mounting of TRAS-A	0207083
TRAS-B	Luminaire fixing for surface mounted luminaires	0207870
TRAS-HA	Chain suspension hanger adjustable nut, 1 pc	0207867
TRAS-HAS	Angular chain suspension hanger, 1 pc	0207944
TRAS-HD	Hanger with 6.0 dia. for ceiling mounting, 1 pc	0207868
TRAS-V	Trunking connector for TRAS, 1pc	0207860
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888
VLSPSO-KH	Tension hook w. loop and carabiner adj. 50 mm, max. 20kg 1pc	0208347
ZSP-SK-3M	Wire pendant loop clamp, D=2.0mm, L=3.0m, 1pc, max. 45kg	0207880



## VLTO accessories for suspended installation with trunking



Model	Description	Prod. code
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
TRA 132 - ABR/EBR 2..	Cross bar for ABR/EBR 2-lamp, fixing distance 132 + 149mm	0200252
TRA 298 - ABR/EBR 3..	Cross bar for ABR/EBR 3-lamp, fixing distance 298mm	0200253
TRA 435 - ABR/EBR 4..	Cross bar for ABR/EBR 4-lamp, fixing distance 435mm	0200256
VLB .36	Dummy cover, L=1237 mm, IP20, white	1500049
VLB .36 SI	Dummy cover, L=1237 mm, IP20, silver	1500049SI
VLB .58	Dummy cover, L=1537 mm, IP20, white	1500050
VLB .58 SI	Dummy cover, L=1537 mm, IP20, silver	1500050SI
VLBK 361	Dummy cover, L=1237mm, IP20, white plastic	1205188
VLBK 361 SI	Dummy cover, L=1237mm, IP20, silver plastic	1205188SI
VLBK 363	Dummy cover, IP20, L=3711mm, white plastic	1205189
VLBK 363 SI	Dummy cover, IP20, L=3711mm, silver plastic	1205189SI
VLBK 581	Dummy cover, L=1537mm, IP20, white plastic	1205105
VLBK 581 SI	Dummy cover, L=1537mm, IP20, silver plastic	1205105SI
VLBK 583	Dummy cover, L=4611mm, IP20, white plastic	1205008
VLBK 583 SI	Dummy cover, L=4611mm, IP20, silver plastic	1205008SI
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLG-KB	Safety clamp for VLB, white, 1 pc.	0206905
VLG-KB-AG	Safety clamp for VLB, silver, 1 pc.	0206905AG
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888
VLSPSO-KH	Tension hook w. loop and carabiner adj. 50 mm, max. 20kg 1pc	0208347
VLTE	Trunking end cap, white, plastic, 1 pc	0205791
VLTE SI	Trunking end cap, silver, plastic, 1 pc	0205791SI
VLTHDB	Ceiling fixing for sports halls, max. 20 kg, 1 pc	0205224
VLTHDS	Chain suspension hanger, angular mounting, max 20kg, 1 pc	0205222
VLTLA	Ext. cable retainer max. 2 x dia.13mm + 1 x dia.7mm, 1 pc	0205760
VLTLI	Internal cable retainer, 10 units, observe instructions	0205761
VLTLIK	Internal cable retainer, plastic, 10 units, observe instructions	0208310
VLTO 361	Trunking 36W, 1-length L=1237mm, no through wiring, white	1500001
VLTO 361 SI	Trunking 36W, 1-length L=1237mm, no through wiring, silver	1500001SI
VLTO 362	Trunking 36W, 2-length L=2474mm, no through wiring, white	1500002
VLTO 362 SI	Trunking 36W, 2-length L=2474mm, no through wiring, silver	1500002SI
VLTO 363	Trunking 36W, 3-length L=3711mm, no through wiring, white	1500003
VLTO 363 SI	Trunking 36W, 3-length L=3711mm, no through wiring, silver	1500003SI
VLTO 581	Trunking 58W, 1-length L=1537mm, no through wiring, white	1500004
VLTO 581 SI	Trunking 58W, 1-length L=1537mm, no through wiring, silver	1500004SI
VLTO 582	Trunking 58W, 2-length L=3074mm, no through wiring, white	1500005
VLTO 582 SI	Trunking 58W, 2-length L=3074mm, no through wiring, silver	1500005SI
VLTO 583	Trunking 58W, 3-length L=4611mm, no through wiring, white	1500006
VLTO 583 SI	Trunking 58W, 3-length L=4611mm, no through wiring, silver	1500006SI
VLTVA	External trunking connector IP20	0206548
VLTVA-AG	Ext. trunking connector IP20, silver similar to RAL 9006	0206548AG
VLTW	Hanger for angled mounting 30°, 45°, 60° ceiling (wall), 1 pc.	0205885
ZSP-SK-3M	Wire pendant loop clamp, D=2.0mm, L=3.0m, 1pc, max. 45kg	0207880

## Mounting recommendations

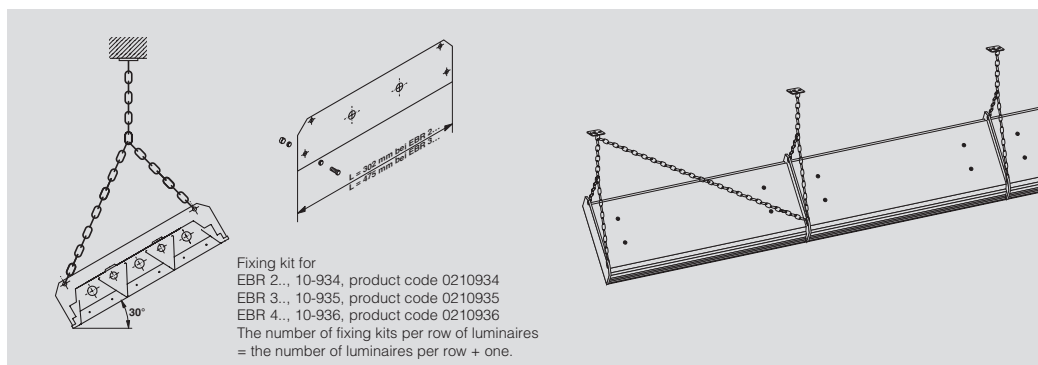
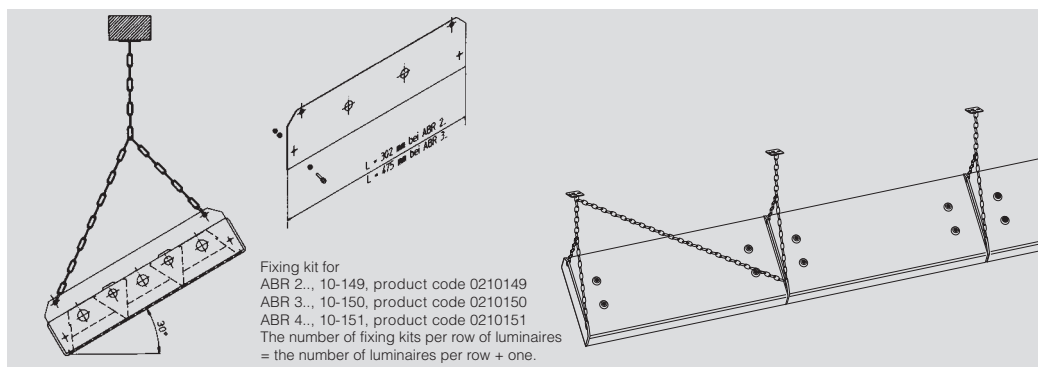
### Mounting recommendations for pendant mounting with suspension plates

The distance between the suspension points in the ceiling must correspond precisely to the length of the luminaires plus 1.5 mm, so that a continuous support rail is required on the ceiling.

The luminaires are mounted continuously, end to end with suspension plates at each end and between luminaires.

The pre-punched knock-outs provided in the ends of the luminaires are used for connection and through wiring.

For longitudinal stabilisation and the dimensions of the suspension and fastening material to be procured by the customer, please refer to the information provided for the trunking.



Pendant mounting, ABR/EBR range – mounting recommendation with trunking system VLT/VLTO



Suspended lines of luminaires are simply and easily fixed to trunking. This mounting method is particularly advantageous for continuous lines which are tilted lengthwise and crosswise. Firstly, the trunking is fixed and adjusted in height, the cross pieces hold the trunking at the corresponding distance A2. The luminaire fasteners are screwed into the trunking and adjusted to distance A1.

The luminaires can then be fitted. The fastening screws project into the inside of the luminaires so that the slotted washers provided can be slid into place, then the fastening screws are tightened. While cross pieces must be used for reasons of strength, when the trunking is suspended by one straddled chain, they are not necessarily needed when the chains hang parallel or vertically. However, the use of cross bars is still recommended because it simplifies the installation procedure. For precise alignment of the continuous rows of luminaires, we recommend the use of tensioning hooks.

If the continuous lines of luminaires in a sports and games hall are to be suspended, diagonal chains should be provided to ensure that the row of luminaires is sufficiently stabilised in the longitudinal direction, to prevent it swinging. The load bearing ability of the suspension components and attachment plates which are to be provided by the customer according to local conditions, is to be calculated as recommended in VDE 0100 / 0710.

**ABR**

**EBR**

Tensioning hook

Fixing plate

B1

B2

A2

max 35°

max 35°

L-100

L

L-100

**Note:**  
When using the tensioning hook, with B1 remove three chain links.

<b>ABR/EBR 4..</b>		
Angle	Number of chain links	
	B1	B2
35	18	12
25	16	12
20	15	11
10	13	11

**LIGHTERS**

**DOWN**

**downlighters**

**downlighters**

**DOWNLIGHTERS**



Due to their small luminaire body, surface-mounted downlighters are ideal for use in applications where linear luminaires offer insufficient directional neutrality and are consequently a less attractive lighting option. Particularly in geometrically irregular multi-sided rooms, downlighters represent the ideal option. The surface-mounted and recessed downlighters encompass a large number of designs and finish variants, wide-ranging lumen packages and protection ratings, making them suitable for a wide selection of lighting assignments.

## Series:

### Surface-mounted downlighters

ADLR	Round design with RIDI LED module
ADLR 410	Round, flat design with RIDI LED module
ADLQ	Square design with RIDI LED module

### Recessed downlighters

FROGG	Round design, with rotation and swivel action, with COB-LED module
BEBD-LED	Floor-mounted recessed downlighter, round design with COB-LED module
EDLR	Round design with RIDI LED module
EDLQ	Square design with RIDI LED module
EBDK-R-LED	Round design with gimbal-type swivel luminaire heads, with COB module

## Surface-mounted downlighters

### The luminaire body series ADLR, ADLQ:

Classical cylindrical or cubic housing shape in steel. Its unobtrusive styling allows the product to blend subtly into the room architecture. This model opens up scope for almost unlimited applications with its wide range of designs and finish variants.

### The luminaire body series ADLR 410:

Shallow cylindrical luminaire housing in steel. Its ultra-shallow design makes this luminaire highly suited for use in rooms with minimal ceiling height.

### Luminaire colours:

Although the standard colour for surface-mounted downlighters is white, these luminaires are also available in all RAL shades as a non-standard option. This permits the downlighters to be adjusted in line with the colour scheme in the room, opening up wide scope for interior architects for optimum integration and matching of luminaires to room designs.

### Luminaire fixture:

The luminaires are predominantly designed for mounting on the room ceiling with the aid of supplied mounting fixtures. Some models of the ABD series can also be mounted as pendant luminaires using a special pendant fixing kit.
















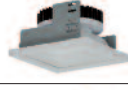


## Recessed downlighters

### The luminaire body:

In most of the models, the luminaire body comprises two components, the reflector housing and gear tray.

The **reflector housing** of the EDLR and EDLQ features a sturdy mounting ring which accommodates the clamping mechanism for the luminaire fixture, a bayonet catch for the light engine and the reflector. The standard reflector version is specified in the product description and in most cases comes with a white (W) or matt (SMT, SMB) reflector surface.

The **gear tray** accommodates all the electrical components such as electrical converter, connector block, cable strain relief and LED module with connecting cable to the gear tray housing. The gear tray is designed to allow insertion through the mounting opening of the reflector housing into the ceiling cavity.

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 <b>ADLQ</b> Surface-mounted square downlighters with RIDI LED module, edge length 195 or 235 mm	270
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 <b>EDLR 340</b> Recessed downlighters with RIDI LED module, with cover panel opal or with microprisms, dia. 340 mm	289
 <b>EDLR 410</b> Recessed downlighters with RIDI LED module, with cover panel opal or with microprisms, dia. 410 mm	290
 <b>EDLQ 150 / 195 / 235</b> Square recessed downlighters with RIDI LED module, reflector matt or white, edge length, 150, 195 or 235 mm	292
 <b>EBDK-R-LED</b> Recessed downlighters, swivel mounted with COB module, dia. 150 or 195 mm	298
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### Lighting technology:

The different reflector designs and scope for using a variety of different optical controls and decor panels make these recessed downlighters suitable to address wide-ranging different lighting technology requirements.

### Luminaire mounting:

The reflector housing is fitted with a universal clamping mechanism which generally permits toolless mounting of the downlighter. Fixing kits or cast concrete housings are available as accessories for special mounting requirements.

# ADLR 195

## Surface-mounted downlighters ADLR 195, round

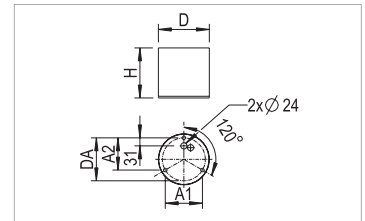
**Design:** Surface-mounted downlighter, diameter 195 mm for ceiling and pendant mounting, with RIDI LED module. Housing cylinder and gear tray plate in steel. Lower housing ring in die-cast metal with integrated fixture for toolless mounting of the decor ring or accessory. Housing white powder coated (similar to RAL9016). Decor ring in polycarbonate (PC), white, with bayonet catch. Protection rating IP 40. Fitted with RIDI LED module, 1100 and 2000 lumen with passive heat sink. Function module in white polycarbonate for mounting the reflector with bayonet catch. Diffusor in transparent, internally satinised polycarbonate to protect the LEDs, clipped into the function module (opal diffusor available on request).

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** The luminaire is designed for individual ceiling or pendant mounting using accessories. Screws and other fixings to be provided on site.



### ADLR 195/... W

Diameter 195 mm. High-reflectance white reflector, in pure aluminium, powder coated similar to RAL9016.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H	A1	A2	DA		
ADLR 195/1100-830 W	1xLED-M 7 W	1085	8	135	830	195	194	144	125	166	0321866	0331866
ADLR 195/1100-840 W	1xLED-M 7 W	1085	8	135	840	195	194	144	125	166	0321870	0331870
ADLR 195/2000-830 W	1xLED-M 15 W	2066	17	121	830	195	194	144	125	166	0321867	0331867
ADLR 195/2000-840 W	1xLED-M 15 W	2066	17	121	840	195	194	144	125	166	0321871	0331871

### ADLR 195/... SMT

Diameter 195 mm. Matt narrow-beam reflector made of anodised pure aluminium.



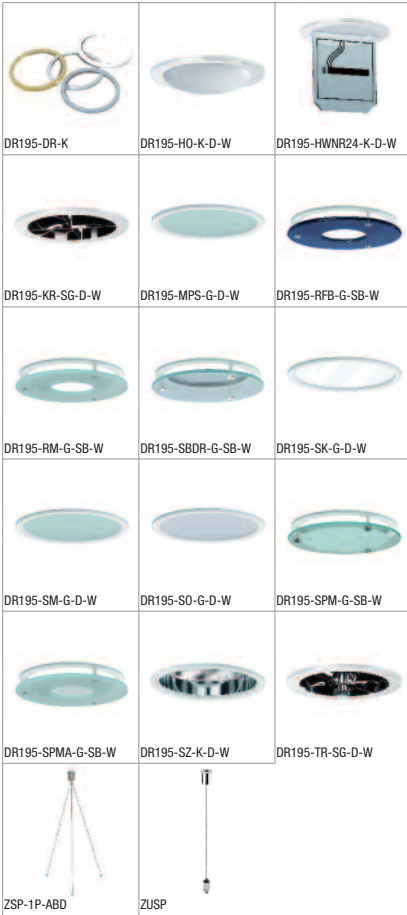
Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H	A1	A2	DA		
ADLR 195/1100-830 SMT	1xLED-M 7 W	987	8	123	830	195	194	144	125	166	0321923	0331923
ADLR 195/1100-840 SMT	1xLED-M 7 W	987	8	123	840	195	194	144	125	166	0321924	0331924
ADLR 195/2000-830 SMT	1xLED-M 15 W	1890	17	111	830	195	194	144	125	166	0321925	0331925
ADLR 195/2000-840 SMT	1xLED-M 15 W	1890	17	111	840	195	194	144	125	166	0321926	0331926

### ADLR 195/... SMB

Diameter 195 mm. Matt wide-beam reflector made of anodised pure aluminium.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H	A1	A2	DA		
ADLR 195/1100-830 SMB	1xLED-M 7 W	994	8	124	830	195	194	144	125	166	0321915	0331915
ADLR 195/1100-840 SMB	1xLED-M 7 W	994	8	124	840	195	194	144	125	166	0321916	0331916
ADLR 195/2000-830 SMB	1xLED-M 15 W	1926	17	113	830	195	194	144	125	166	0321917	0331917
ADLR 195/2000-840 SMB	1xLED-M 15 W	1926	17	113	840	195	194	144	125	166	0321918	0331918



## Accessories

Model	Description	Prod. code
<sup>2)</sup> DR195-ASLP-K-D-W	PMMA panel, longitudinal prisms for asym. light distribution, white	0208873
DR195-DPO-K-D-W	Panel PMMA, embossed opal micro-prisms, white decorative ring	0208866
DR195-DPS-K-D-W	Panel PMMA, embossed micro-prisms, white decorative ring	0208856
DR195-DR-K-AL	Decorative ring, brushed aluminium	0202675/634
DR195-DR-K-B-RAL	Decorative ring PC w. steel cover ring, optional RAL colour	0202675RAL633
DR195-DR-K-ES	Decorative ring, brushed stainless steel	0202675/636
DR195-DR-K-RAL	Decorative ring, plastic coated, colour per choice from RAL colour chart	0202675RAL
DR195-DR-K-SG	Decorative ring, specular aluminium, silver	0202675/609
DR195-DR-K-SM	Decorative ring, matt aluminium, silver	0202675/607
DR195-DR-K-W	Decorative ring, white plastic	0202675
DR195-HO-K-D-W	Dished artificial opal glass with white decorative ring	0202748
<sup>1)</sup> DR195-HWNR1-K-D-W	Information sign No.1 with white decorative ring	0202802/7701
<sup>1)</sup> DR195-HWNR11-K-D-W	Information sign No.11 with white decorative ring	0202802/7711
<sup>1)</sup> DR195-HWNR12-K-D-W	Information sign No.12 with white decorative ring	0202802/7712
<sup>1)</sup> DR195-HWNR13-K-D-W	Information sign No.13 with white decorative ring	0202802/7713
<sup>1)</sup> DR195-HWNR17-K-D-W	Information sign No.17 with white decorative ring	0202802/7717
<sup>1)</sup> DR195-HWNR21-K-D-W	Information sign No.21 with white decorative ring	0202802/7721
<sup>1)</sup> DR195-HWNR22-K-D-W	Information sign No.22 with white decorative ring	0202802/7722
<sup>1)</sup> DR195-HWNR23-K-D-W	Information sign No.23 with white decorative ring	0202802/7723
<sup>1)</sup> DR195-HWNR24-K-D-W	Information sign No.24 with white decorative ring	0202802/7724
<sup>1)</sup> DR195-HWNR4-K-D-W	Information sign No.4 with white decorative ring	0202802/7704
<sup>1)</sup> DR195-HWNR5-K-D-W	Information sign No.5 with white decorative ring	0202802/7705
<sup>1)</sup> DR195-HWNR8-K-D-W	Information sign No.8 with white decorative ring	0202802/7708
<sup>1)</sup> DR195-HWNR9-K-D-W	Information sign No.9 with white decorative ring	0202802/7709
<sup>4)</sup> DR195-KR-SG-D-W	Parabolic cross blade louvre, specular aluminium silver	0202662
DR195-MPS-G-D-W	Decor. float glass disc, microprisms with decor ring white	0204884
DR195-MPS-K-D-W	Panel PMMA, protruding micro-prisms, white decorative ring	0209007
DR195-RFB-G-SB-W	Decor. safety glass, blue, internally open w. white ring	0202710
DR195-RM-G-SB-W	Decor. safety glass, matt, int.open, white ring	0202692
DR195-SBDR-G-SB-W	Decorative safety glass, printed, with white decorative ring	0202719
DR195-SK-G-D-W	Transparent float glass disc with white decorative ring	0202863
DR195-SM-G-D-W	Float glass disc, matt finish, with white decorative ring	0202734
DR195-SM-K-D-W	Decorative panel PMMA, satin finish, white decorative ring	0204862
DR195-SO-G-D-W	Float glass disc, opal finish, with white decorative ring	0202739
DR195-SOM-K-D-W	Panel PMMA, opal satin finish, white decorative ring	0208861
DR195-SPM-G-SB-W	Decorative safety glass, matt int., white dec. ring	0202683
DR195-SPMA-G-SB-W	Decorative safety glass, matt exterior, white ring	0202701
<sup>4)</sup> DR195-SZ-K-D-W	Decorative trim, inset acrylic panel, white ring	0202778
<sup>4)</sup> DR195-TR-SG-D-W	Parabolic louvre w. inner ring, specular aluminium silver	0202658
ZSP-1P-ABD 1,5M	Wire pendant for ABD 1.5m, 1 pc	0208087
<sup>3)</sup> ZUSP	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0201239
ZVDO-EDLR	LED diffusor opal PC	0202478

<sup>1)</sup> The selection of available emergency signs is listed on the last page of this chapter.

<sup>2)</sup> Recommended only with ADLR ... SMT

<sup>3)</sup> Number per downlighter: 3 pcs.

<sup>4)</sup> Only possible with ADLR ... SMT

# ADLR 235

## Surface-mounted downlighters ADLR 235, round

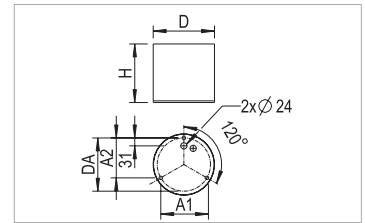
**Design:** Surface-mounted downlighter, diameter 235 mm for ceiling and pendant mounting, with RIDI LED module. Housing cylinder and gear tray plate in steel. Lower housing ring in die-cast metal with integrated fixture for toolless mounting of the decor ring or accessory. Housing white powder coated (similar to RAL9016). Decor ring in polycarbonate (PC), white, with bayonet catch. Protection rating IP 40. Fitted with RIDI LED module, 2000 and 3000 lumen with passive heat sink. Function module in white polycarbonate for mounting the reflector with bayonet catch. Diffusor in transparent, internally satinised polycarbonate to protect the LEDs, clipped into the function module (opal diffusor available on request).

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** The luminaire is designed for individual ceiling or pendant mounting using accessories. Screws and other fixings to be provided on site.



### ADLR 235/... W

Diameter 235 mm. High-reflectance white reflector, in pure aluminium, powder coated similar to RAL9016..



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
							H	A1	A2	DA		
ADLR 235/2000-830 W	1xLED-M 15 W	2071	17	121	830	235	228	178	155	206	0321868	0331868
ADLR 235/2000-840 W	1xLED-M 15 W	2071	17	121	840	235	228	178	155	206	0321872	0331872
ADLR 235/3000-830 W	1xLED-M 23 W	3260	27	120	830	235	228	178	155	206	0321869	0331869
ADLR 235/3000-840 W	1xLED-M 23 W	3260	27	120	840	235	228	178	155	206	0321873	0331873

### ADLR 235/... SMT

Diameter 235 mm. Matt narrow-beam reflector made of anodised pure aluminium.



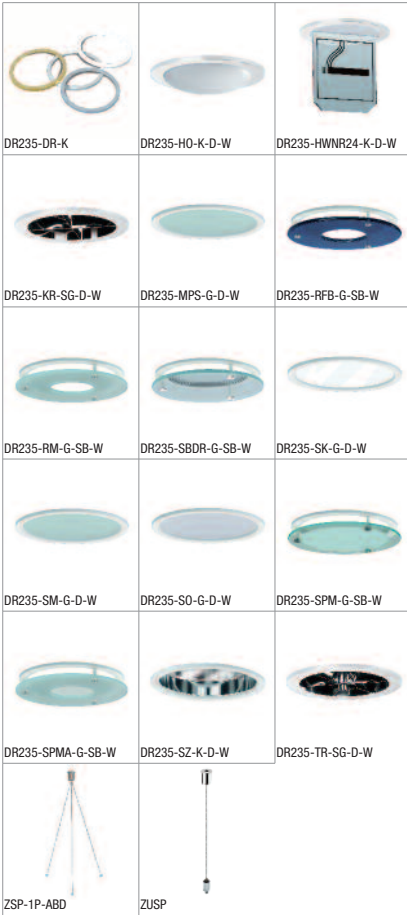
Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
							H	A1	A2	DA		
ADLR 235/2000-830 SMT	1xLED-M 15 W	1835	17	107	830	235	228	178	155	206	0321927	0331927
ADLR 235/2000-840 SMT	1xLED-M 15 W	1835	17	107	840	235	228	178	155	206	0321928	0331928
ADLR 235/3000-830 SMT	1xLED-M 23 W	2930	27	108	830	235	228	178	155	206	0321929	0331929
ADLR 235/3000-840 SMT	1xLED-M 23 W	2930	27	108	840	235	228	178	155	206	0321930	0331930

### ADLR 235/... SMB

Diameter 235 mm. Matt wide-beam reflector made of anodised pure aluminium.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
							H	A1	A2	DA		
ADLR 235/2000-830 SMB	1xLED-M 15 W	1880	17	110	830	235	228	178	155	206	0321919	0331919
ADLR 235/2000-840 SMB	1xLED-M 15 W	1880	17	110	840	235	228	178	155	206	0321920	0331920
ADLR 235/3000-830 SMB	1xLED-M 23 W	2934	27	108	830	235	228	178	155	206	0321921	0331921
ADLR 235/3000-840 SMB	1xLED-M 23 W	2934	27	108	840	235	228	178	155	206	0321922	0331922



## Accessories

Model	Description	Prod. code
<sup>2)</sup> DR235-ASLP-K-D-W	PMMA panel, longitudinal prisms for asym. light distribution, white	0208874
DR235-DPO-K-D-W	Panel PMMA, embossed opal micro-prisms, white decorative ring	0208867
DR235-DPS-K-D-W	Panel PMMA, embossed micro-prisms, white decorative ring	0208857
DR235-DR-K-AL	Decorative ring, brushed aluminium	0202676/634
DR235-DR-K-B-RAL	Decorative ring PC w. steel cover ring, optional RAL colour	0202676RAL633
DR235-DR-K-ES	Decorative ring, brushed stainless steel	0202676/636
DR235-DR-K-RAL	Decorative ring, plastic coated, colour per choice from RAL colour chart	0202676RAL
DR235-DR-K-SG	Decorative ring, specular aluminium silver	0202676/609
DR235-DR-K-SM	Decorative ring, matt aluminium silver	0202676/607
DR235-DR-K-W	Decorative ring, white plastic	0202676
DR235-HO-K-D-W	Dished artificial opal glass with white decorative ring	0202749
<sup>1)</sup> DR235-HWNR1-K-D-W	Information sign No.1 with white decorative ring	0202803/7701
<sup>1)</sup> DR235-HWNR11-K-D-W	Information sign No.11 with white decorative ring	0202803/7711
<sup>1)</sup> DR235-HWNR12-K-D-W	Information sign No.12 with white decorative ring	0202803/7712
<sup>1)</sup> DR235-HWNR13-K-D-W	Information sign No.13 with white decorative ring	0202803/7713
<sup>1)</sup> DR235-HWNR17-K-D-W	Information sign No.17 with white decorative ring	0202803/7717
<sup>1)</sup> DR235-HWNR21-K-D-W	Information sign No.21 with white decorative ring	0202803/7721
<sup>1)</sup> DR235-HWNR22-K-D-W	Information sign No.22 with white decorative ring	0202803/7722
<sup>1)</sup> DR235-HWNR23-K-D-W	Information sign No.23 with white decorative ring	0202803/7723
<sup>1)</sup> DR235-HWNR24-K-D-W	Information sign No.24 with white decorative ring	0202803/7724
<sup>1)</sup> DR235-HWNR4-K-D-W	Information sign No.4 with white decorative ring	0202803/7704
<sup>1)</sup> DR235-HWNR5-K-D-W	Information sign No.5 with white decorative ring	0202803/7705
<sup>1)</sup> DR235-HWNR8-K-D-W	Information sign No.8 with white decorative ring	0202803/7708
<sup>1)</sup> DR235-HWNR9-K-D-W	Information sign No.9 with white decorative ring	0202803/7709
<sup>4)</sup> DR235-KR-SG-D-W	Parabolic cross blade louvre, specular aluminium silver	0202663
DR235-MPS-G-D-W	Decor. float glass disc, microprisms with decor ring white	0204885
DR235-MPS-K-D-W	Panel PMMA, protruding micro-prisms, white decorative ring	0209008
DR235-RFB-G-SB-W	Decor. safety glass, blue, internally open w. white ring	0202711
DR235-RM-G-SB-W	Decor. safety glass, matt, int.open, white ring	0202693
DR235-SBDR-G-SB-W	Decorative safety glass, printed, with white decorative ring	0202720
DR235-SK-G-D-W	Transparent float glass disc with white decorative ring	0202864
DR235-SM-G-D-W	Float glass disc, matt finish, with white decorative ring	0202735
DR235-SM-K-D-W	Decorative panel PMMA, satin finish, white decorative ring	0204863
DR235-SO-G-D-W	Float glass disc, opal finish, with white decorative ring	0202740
DR235-SOM-K-D-W	Panel PMMA, opal satin finish, white decorative ring	0208862
DR235-SPM-G-SB-W	Decorative safety glass, matt int., white dec. ring	0202684
DR235-SPMA-G-SB-W	Decorative safety glass, matt exterior, white ring	0202702
<sup>4)</sup> DR235-SZ-K-D-W	Decorative trim, inset acrylic panel, white ring	0202779
<sup>4)</sup> DR235-TR-SG-D-W	Parabolic louvre with inner ring, specular aluminium silver	0202659
ZSP-1P-ABD 1,5M	Wire pendant for ABD 1.5m, 1 pc	0208087
<sup>3)</sup> ZUSP	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0201239
ZVDO-EDLR	LED diffusor opal PC	0202478

<sup>1)</sup> The selection of available emergency signs is listed on the last page of this chapter.

<sup>2)</sup> Recommended only with ADLR ... SMT

<sup>3)</sup> Number per downlighter: 3 pcs.

<sup>4)</sup> Only possible with ADLR ... SMT

# ADLR 410

## Surface-mounted downlighters ADLR, round

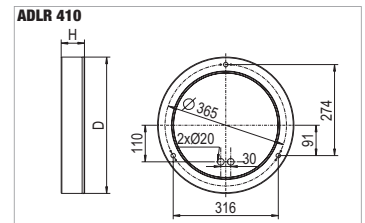
**Design:** Surface-mounted downlighter, diameter 410 mm for ceiling and pendant mounting, with RIDI LED module. Housing cylinder and gear tray plate in steel. Lower housing ring in die-cast metal with integrated fixture for toolless mounting of the decor ring. Housing white powder coated (similar to RAL9016). Decor ring in die-cast metal, white powder coated, with bayonet catch. Protection rating IP 40. RIDI-LED module round, fitted with mid-power-LEDs, fixture using key holes, plug-in electrical connection to the converter. Passive cooling at large-area copper surfaces.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Direct ceiling mounting or with accessories for wire pendant mounting.



### ADLR 410/... DPO

Cover panel with embossed microprisms in UV-stabilised PMMA. Inside additional opal panel, satinised, in UV-stabilised PMMA. Homogenous illumination of the panel without visible LED spots.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]		el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H		
ADLR 410/5000-840 DPO	1xLED-M 28 W	3904	33	118	840	410	68	0321242	0331242
ADLR 410/6000-840 DPO	1xLED-M 36 W	4715	41	115	840	410	68	0321246	0331246

### ADLR 410/... DPS

Cover panel with embossed microprisms in UV-stabilised PMMA. LEDs appear as several spots.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]		el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H		
ADLR 410/5000-840 DPS	1xLED-M 28 W	4394	33	133	840	410	68	0321243	0331243
ADLR 410/6000-840 DPS	1xLED-M 36 W	5285	41	128	840	410	68	0321247	0331247

### ADLR 410/... MPS

Cover panel with raised microprisms for optimum glare reduction in UV-stabilised PMMA. LEDs appear as circles.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]		el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H		
ADLR 410/5000-840 MPS	1xLED-M 28 W	3550	33	107	840	410	68	0321244	0331244
ADLR 410/6000-840 MPS	1xLED-M 36 W	4270	41	104	840	410	68	0321248	0331248

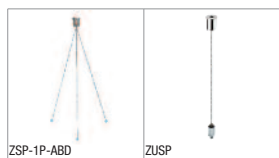


**ADLR 410/... OS**

Cover panel opal, satinised, in UV-stabilised PMMA. Homogenous lighting of the panel without visible LED spots.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]		el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H		
ADLR 410/5000-840 OS	1xLED-M 28 W	4094	33	124	840	410	68	0321241	0331241
ADLR 410/6000-840 OS	1xLED-M 36 W	4935	41	120	840	410	68	0321245	0331245

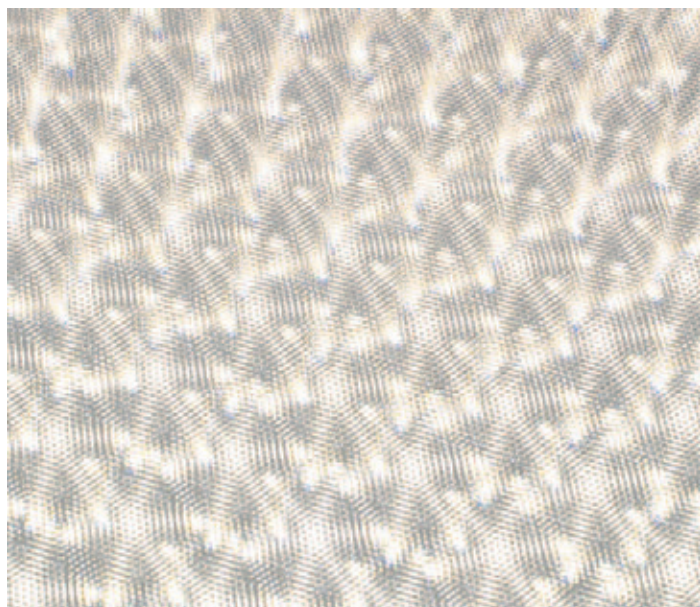
**Accessories**



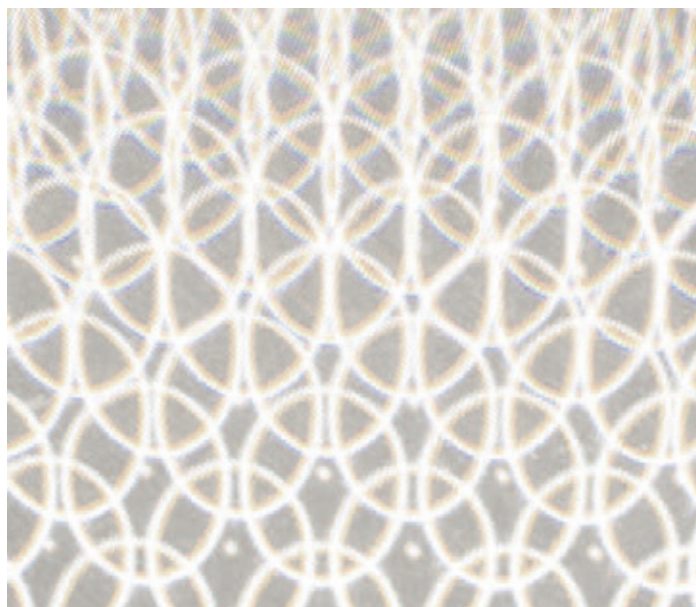
Model	Description	Prod. code
ZSP-1P-ABD 1,5M	Wire pendant for ABD 1.5m, 1 pc	0208087
<sup>3)</sup> ZUSP	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0201239

<sup>3)</sup> Number per downlighter: 3 pcs.

**DPS**



**MPS**



## Surface-mounted downlighters ADLQ 195, square

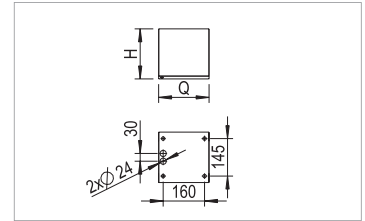
**Design:** Square surface-mounted downlighter with edge length 195 mm for ceiling and pendant mounting, with RIDI LED module. Luminaire body in steel, powder coated white (similar to RAL9016). Stable housing frame in galvanised steel with integrated fixture for toolless mounting of accessories (decorative frames and trims, order separately). Protection rating IP 40. Fitted with RIDI LED module, 1100 and 2000 lumen with passive heat sink. Function module in white polycarbonate for mounting the reflector with bayonet catch. Diffusor in transparent, internally satinised polycarbonate to protect the LEDs, clipped into the function module (opal diffusor available on request).

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Direct ceiling mounting or with accessories for wire pendant mounting.



### ADLQ 195/ ... W

Edge length 195 mm. High-reflectance white reflector in steel, powder coated similar to RAL9016.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						Q	H	A1	A2		
ADLQ 195/1100-830 W	1xLED-M 7 W	1092	8	136	830	195	194	160	145	0321876	0331876
ADLQ 195/1100-840 W	1xLED-M 7 W	1092	8	136	840	195	194	160	145	0321880	0331880
ADLQ 195/2000-830 W	1xLED-M 15 W	2085	17	122	830	195	194	160	145	0321877	0331877
ADLQ 195/2000-840 W	1xLED-M 15 W	2085	17	122	840	195	194	160	145	0321881	0331881

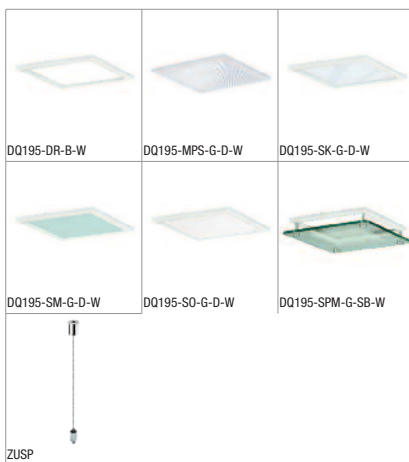
### ADLQ 195/ ... SM

Edge length 195 mm. High-reflectance matt anodised super-purity aluminium with silver coating, wide-beam.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						Q	H	A1	A2		
ADLQ 195/1100-830 SM	1xLED-M 7 W	1048	8	131	830	195	194	160	145	0321931	0331931
ADLQ 195/1100-840 SM	1xLED-M 7 W	1048	8	131	840	195	194	160	145	0321932	0331932
ADLQ 195/2000-830 SM	1xLED-M 15 W	2001	17	117	830	195	194	160	145	0321933	0331933
ADLQ 195/2000-840 SM	1xLED-M 15 W	2001	17	117	840	195	194	160	145	0321934	0331934

## Accessories



Model	Description	Prod. code
<sup>2)</sup> DQ195-ASLP-K-D-W	PMMA panel, longitudinal prisms for asym. light distribution, white	0208876
DQ195-DPO-K-D-W	Panel PMMA, embossed opal micro-prisms, white decorative frame	0209010
DQ195-DPS-K-D-W	Panel PMMA, embossed micro-prisms, white decorative frame	0209013
DQ195-DR-B-W	Decor frame, white	0204426
DQ195-MPS-G-D-W	Decor. float glass disc, microprisms with frame white	0204889
DQ195-MPS-K-D-W	Panel PMMA, protruding micro-prisms, white decorative frame	0209019
DQ195-RM-G-SB-W	Decorative glass ESG, interior open, matt finish, white decorative frame	0204176
DQ195-SK-G-D-W	Transparent float glass disc with white decorative ring	0204436
DQ195-SM-G-D-W	Float glass disc, matt finish, with white decorative frame	0204431
DQ195-SM-K-D-W	Decorative panel PMMA, satin finish, white decorative frame	0204865
DQ195-SO-G-D-W	Opal float glass disc with white decorative ring	0204164
DQ195-SOM-K-D-W	Panel PMMA, opal satin finish, white decorative frame	0209016
DQ195-SPM-G-SB-W	Decorative safety glass, matt interior, white decor frame	0204421
ZSP-1P-ABDQ 1,5M	Wire pendant for ABDQ, 1.5m, 1 pc	0204445
<sup>1)</sup> ZUSP	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0201239
ZVDO-EDLR	LED diffusor opal PC	0202478

<sup>1)</sup> Number per downlighter: 4 pcs.

<sup>2)</sup> Recommended only with ADLQ ... SM



## Surface-mounted downlighters ADLQ 235, square

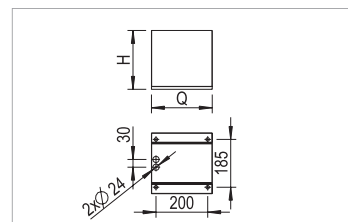
**Design:** Square surface-mounted downlighter with edge length 235 mm for ceiling and pendant mounting, with RIDI LED module. Luminaire body in steel, powder coated white (similar to RAL9016). Stable housing frame in galvanised steel with integrated fixture for toolless mounting of accessories (Decorative frames and trims, order separately). Protection rating IP 40. Fitted with RIDI LED module, 2000 and 3000 lumen with passive heat sink. Function module in white polycarbonate for mounting the reflector with bayonet catch. Diffusor in transparent, internally satinised polycarbonate to protect the LEDs, clipped into the function module (opal diffusor available on request).

Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Direct ceiling mounting or with accessories for wire pendant mounting.



### ADLQ 235/ ... W

Edge length 235 mm. High-reflectance white reflector in steel, powder coated similar to RAL9016.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						Q	H	A1	A2		
ADLQ 235/2000-830 W	1xLED-M 15 W	2077	17	122	830	235	228	200	185	0321878	0331878
ADLQ 235/2000-840 W	1xLED-M 15 W	2077	17	122	840	235	228	200	185	0321882	0331882
ADLQ 235/3000-830 W	1xLED-M 23 W	3264	27	120	830	235	228	200	185	0321879	0331879
ADLQ 235/3000-840 W	1xLED-M 23 W	3264	27	120	840	235	228	200	185	0321883	0331883

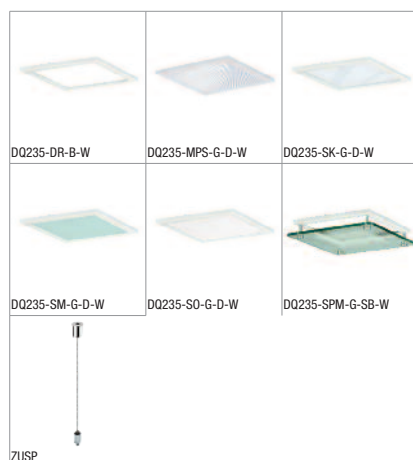
### ADLQ 235/ ... SM

Edge length 235 mm. Reflector in high-reflectance matt anodised super-purity aluminium with silver coating, wide-beam.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						Q	H	A1	A2		
ADLQ 235/2000-830 SM	1xLED-M 15 W	2022	17	118	830	235	228	200	185	0321935	0331935
ADLQ 235/2000-840 SM	1xLED-M 15 W	2022	17	118	840	235	228	200	185	0321936	0331936
ADLQ 235/3000-830 SM	1xLED-M 23 W	3178	27	117	830	235	228	200	185	0321937	0331937
ADLQ 235/3000-840 SM	1xLED-M 23 W	3178	27	117	840	235	228	200	185	0321938	0331938

## Accessories



Model	Description	Prod. code
<sup>2)</sup> DQ235-ASLP-K-D-W	PMMA panel, longitudinal prisms for asym. light distribution, white	0208877
DQ235-DPO-K-D-W	Panel PMMA, embossed opal micro-prisms, white decorative frame	0209011
DQ235-DPS-K-D-W	Panel PMMA, embossed micro-prisms, white decorative frame	0209014
DQ235-DR-B-W	Decor frame, white	0204427
DQ235-MPS-G-D-W	Decor. float glass disc, microprisms with frame white	0204890
DQ235-MPS-K-D-W	Panel PMMA, protruding micro-prisms, white decorative frame	0209020
DQ235-RM-G-SB-W	Decorative glass ESG, interior open, matt finish, white decorative frame	0204177
DQ235-SK-G-D-W	Transparent float glass disc with white decorative ring	0204437
DQ235-SM-G-D-W	Float glass disc, matt finish, with white decorative frame	0204432
DQ235-SM-K-D-W	Decorative panel PMMA, satin finish, white decorative frame	0204866
DQ235-SO-G-D-W	Opal float glass disc with white decorative ring	0204165
DQ235-SOM-K-D-W	Panel PMMA, opal satin finish, white decorative frame	0209017
DQ235-SPM-G-SB-W	Decorative safety glass, matt interior, white decor frame	0204422
ZSP-1P-ABDQ 1,5M	Wire pendant for ABDQ, 1.5m, 1 pc	0204445
<sup>1)</sup> ZUSP	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0201239
ZVDO-EDLR	LED diffusor opal PC	0202478

<sup>1)</sup> Number per downlighter: 4 pcs.

<sup>2)</sup> Recommended only with ADLQ ... SM

FROGG

**Design:** Recessed downlighter with rotation (320°) and swivel action (-15° to +45°), round, diameter 200 mm, comprising reflector housing with reflector unit and separate LED driver as an independent device. Cooling fins inside and out ensure maintenance-free passive cooling. Fitted with COB LED module. COB module and reflector covered with a clear plastic panel. Safety class II.

Stable recessed mounting frame in die cast aluminium, white (similar to RAL9016) with fixing clips for toolless recessed ceiling mounting, ceiling thickness max. 40 mm. Black circular panel to prevent view of the ceiling cavity. Reflectors with different beam angles: Spot 15°, medium 20°, flood 40° and super-flood 60°.

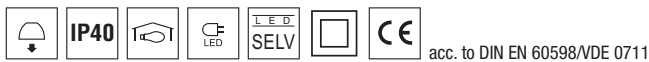
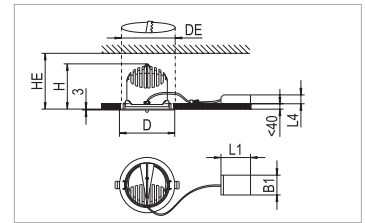
Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volts, 0/50-60 Hz with internal connector block 2 x 1.5 mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 2x1.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Toolless fixture using spring clips, pre-fitted as standard at the reflector housing.

**Note:** Connecting terminals for one cable, max. 1.5 mm<sup>2</sup>. For feed-through wiring from lamp to lamp, a conduit/junction box must be provided on site.



**FROGG ... 830 S**

Reflector has a faceted structure in plastic, with high-gloss coating. 15° spot reflector beam angle.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				B1	L1	L4	el. conv. Prod. code	dim. conv. DALI Prod. code	
						D	DE min	DE max	H						HE
FROGG 190/3500-830 S	1xLED-M 35 W	3017	34	88	830	190	175	185	170	190	67	103	30	0326588	
FROGG 190/3500-830 S	1xLED-M 35 W	3017	34	88	830	190	175	185	170	190	67	106	28		0336588
FROGG 190/3500-840 S	1xLED-M 35 W	3017	34	88	840	190	175	185	170	190	67	103	30	0326584	
FROGG 190/3500-840 S	1xLED-M 35 W	3017	34	88	840	190	175	185	170	190	67	106	28		0336584

**FROGG ... 830 M**

Reflector has a faceted structure in plastic, with high-gloss coating. 20° medium reflector beam angle.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				B1	L1	L4	el. conv. Prod. code	dim. conv. DALI Prod. code	
						D	DE min	DE max	H						HE
FROGG 190/3500-830 M	1xLED-M 35 W	3389	34	99	830	190	175	185	170	190	67	103	30	0326589	
FROGG 190/3500-830 M	1xLED-M 35 W	3389	34	99	830	190	175	185	170	190	67	106	28		0336589
FROGG 190/3500-840 M	1xLED-M 35 W	3389	34	99	840	190	175	185	170	190	67	103	30	0326585	
FROGG 190/3500-840 M	1xLED-M 35 W	3389	34	99	840	190	175	185	170	190	67	106	28		0336585

**FROGG ... 830 F**

Reflector has a faceted structure in plastic, with high-gloss coating. 40° flood reflector beam angle.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				B1	L1	L4	el. conv. Prod. code	dim. conv. DALI Prod. code	
						D	DE min	DE max	H						HE
FROGG 190/3500-830 F	1xLED-M 35 W	3333	34	98	830	190	175	185	170	190	67	103	30	0326590	
FROGG 190/3500-830 F	1xLED-M 35 W	3333	34	98	830	190	175	185	170	190	67	106	28		0336590
FROGG 190/3500-840 F	1xLED-M 35 W	3333	34	98	840	190	175	185	170	190	67	103	30	0326586	
FROGG 190/3500-840 F	1xLED-M 35 W	3333	34	98	840	190	175	185	170	190	67	106	28		0336586



**FROGG ... 830 SF**

Reflector has a faceted structure in plastic, with high-gloss coating. 60° super-flood reflector beam angle.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	DE min	DE max	Dimens. [mm]		B1	L1	L4	el. conv. Prod. code	dim. conv. DALI Prod. code
									H	HE					
FROGG 190/3500-830 SF	1xLED-M 35 W	3354	34	98	830	190	175	185	170	190	67	103	30	0326591	
FROGG 190/3500-830 SF	1xLED-M 35 W	3354	34	98	830	190	175	185	170	190	67	106	28		0336591
FROGG 190/3500-840 SF	1xLED-M 35 W	3354	34	98	840	190	175	185	170	190	67	103	30	0326587	
FROGG 190/3500-840 SF	1xLED-M 35 W	3354	34	98	840	190	175	185	170	190	67	106	28		0336587

**Accessories**

Model	Description	Prod. code
ZV-FROGG-F	Replacement reflector flood, beam angle 40°	0208989
ZV-FROGG-M	Replacement reflector medium, beam angle 20°	0208988
ZV-FROGG-S	Replacement reflector spot, beam angle 15°	0208987
ZV-FROGG-SF	Replacement reflector super-flood, beam angle 60°	0208990



## Recessed downlighter EDLR 75/ ...

**Design:** Recessed downlighter, diameter 75 mm with LED module, consisting of recessed downlighter and operating unit. Stable luminaire housing made of metal cast-die with mounting clips that can be operated tool-free for the installation into the ceiling. Passive cooling with gills for optimal heat transport. Equipped with COB module. Operating unit with mains terminal, cable strain relief, and connecting cable to the LED module. Protection class IP40 on room side, IP20 on ceiling side. Protection class II. Sets with up to 4 luminaires per LED driver are offered (EDLR 75..., EDLR 75-2..., EDLR 75-3..., EDLR 75-4...).

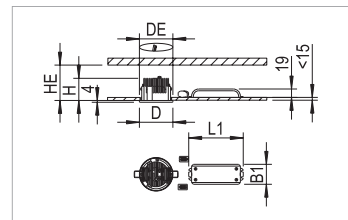
Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- El. conv.: Electronic converter for LED, 220-240 Volt, 50-60 Hz and internal connector block 2x2.5mm<sup>2</sup>.

**Mounting:** Fixing clips for clamping thicknesses from 0 to 20 mm prefitted as standard to the luminaire housing.

**Note:** Connecting terminals for one cable, max. 1.5 mm<sup>2</sup>. For feed-through wiring from lamp to lamp, a conduit/junction box must be provided on site.



**EDLR 75/...**

Diameter 75mm. White powder-coated housing similar to RAL9016. Polycarbonate cover plate, plastic decorative ring with white satined surface.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code
						D	DE min	DE max	H	HE	
EDLR 75/425-830	1xLED-M 4,6 W	400	6	66	830	75	69	70	50	60	0321231
EDLR 75/425-840	1xLED-M 4,6 W	400	6	66	840	75	69	70	50	60	0321235
EDLR 75-2/425-830	1xLED-M 4,6 W	400	6	66	830	75	69	70	50	60	0321232
EDLR 75-2/425-840	1xLED-M 4,6 W	400	6	66	840	75	69	70	50	60	0321236
EDLR 75-3/425-830	1xLED-M 4,6 W	400	6	66	830	75	69	70	50	60	0321233
EDLR 75-3/425-840	1xLED-M 4,6 W	400	6	66	840	75	69	70	50	60	0321237
EDLR 75-4/425-830	1xLED-M 4,6 W	400	6	66	830	75	69	70	50	60	0321234
EDLR 75-4/425-840	1xLED-M 4,6 W	400	6	66	840	75	69	70	50	60	0321238

## Recessed downlighters EDLR 115

**Design:** Recessed downlighter, diameter 115 mm with LED module, comprising reflector housing and gear tray. Fitted with COB LED module, 1500 lumen and passive heat sink. Protection rating on the room side IP44, ceiling side IP20.

**Reflector housing:** Rigid mounting ring in die-cast metal with passive heat sink with cast-on cooling fins for optimum heat conduction. Toolless fixing clips in spring steel for ceiling mounting. Decorative ring in white powder-coated steel, screwed invisibly to the luminaire housing. Reflector and real glass panel are laid in the decorative ring. Reflector made of pure aluminium, beam angle 24°. Real glass panel in float glass with partially satinised outer rim in ring formation.

**Gear tray:** Independent gear tray accommodating the electrical components with connector block, cable strain relief and connecting cable to the LED module.

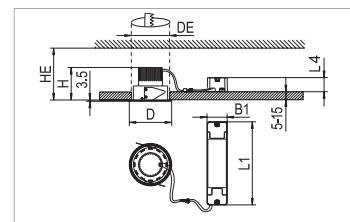
Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volts, 0/50-60 Hz with internal connector block 4 x 2.5 mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 2x2.5mm<sup>2</sup>.

**Mounting:** Fixing clips for toolless mounting in ceiling thicknesses from 5 to 15 mm prefitted to the luminaire housing as standard.

**Note:** Connecting terminals for one cable, max. 1.5 mm<sup>2</sup>. For feed-through wiring from lamp to lamp, a conduit/junction box must be provided on site.



**EDLR 115/ ... SMT**

Diameter 115 mm. Reflector in pure aluminium. Decorative ring surface powder coated in white, colour similar to RAL9016.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]						el. conv. Prod. code	dim. conv. DALI Prod. code		
						D	DE min	DE max	H	HE	B1			L1	L4
EDLR 115/1500-830 SMT	1xLED-M 12 W	1125	15	75	830	115	98	105	90	100	34	115	19	0321250	
EDLR 115/1500-830 SMT	1xLED-M 12 W	1125	15	75	830	115	98	105	90	100	67	103	21		0331250
EDLR 115/1500-840 SMT	1xLED-M 12 W	1125	15	75	840	115	98	105	90	100	34	115	19	0321249	
EDLR 115/1500-840 SMT	1xLED-M 12 W	1125	15	75	840	115	98	105	90	100	67	103	21		0331249



**Recessed downlighters EBD-LED 120/... with LED**

**Design:** Recessed downlighter, diameter 120 mm, with LED module. Stable recess mount housing in die-cast metal with fixing springs for toolless mounting. Decor ring in die-cast metal, white powder coated. Cover disc in float glass sealed with O-ring for recess mount housing. Fitted with COB LED module, 310 lumen and passive heat sink. Protection rating on the room side similar to IP54, on the ceiling side IP40. Includes connecting cable 2x1.0m.

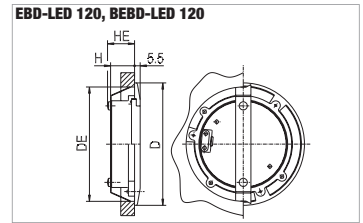
Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- Order power supply unit separately, see accessories.

**Mounting:** In addition to the standard fixing clips from 8 mm ceiling thickness, a fixing kit for ceiling thicknesses smaller than 8 mm is available.

**Note:** Connecting terminals for one cable, max. 1.5 mm<sup>2</sup>. For feed-through wiring from lamp to lamp, a conduit/junction box must be provided on site.



**Non-standard designs:**

- Decor rings in RAL colours



**EBD-LED 120/... MS**

Downlighter for ceiling or wall mounting. Diameter 120 mm. Cover disc in real matt finish glass, offset from the decor ring.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	
						D	DE min	DE max	H		HE
EBD-LED 120/310-840-MS	1xLED-M 3 W	344	4	86	840	120	110	112	23	26	0320259

**EBD-LED 120/... OS**

Downlighter for ceiling or wall mounting. Diameter 120 mm. Cover disc in real opal glass, offset from the decor ring.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	
						D	DE min	DE max	H		HE
EBD-LED 120/310-840-OS	1xLED-M 3 W	311	4	77	840	120	110	112	23	26	0320254

**BEBD-LED 120/... MS**

Downlighter for floor mounting, walkable. Diameter 120 mm. Cover disc in real matt finish glass, flush with the decor ring.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	
						D	DE min	DE max	H		HE
BEBD-LED 120/310-840-MS	1xLED-M 3 W	344	4	86	840	120	110	112	23	26	0320328

**Accessories**



EBD-LEDTR

Model	Description	Prod. code
DES EBD-LED 120	Fixing kit for ceiling thicknesses up to 8 mm	0207715
EBD-LEDTR 15W/350MA KONST	Constant current source 350mA, 1-3 luminaires, max. 5m	0208130
EBD-LEDTR 18W/350MA KONST	Constant current source 350mA, 4 or 5 luminaires, max. 5m	0208131

# EDLR 150

## Recessed downlighters EDLR 150, round

**Design:** Recessed downlighter, diameter 150 mm with LED module, comprising reflector housing and gear tray. Fitted with RIDI LED module, 1100 and 2000 lumen with passive heat sink. Protection rating on the room side IP 40, ceiling side IP20

**Reflector housing:** Rigid mounting ring in die-cast metal with toolless fixing clips mechanism for ceiling mounting and reflector holding clips. Integrated fixture for toolless mounting of the decor ring and accessories. Decorative ring made of white polycarbonate with bayonet fitting. Functional module in white polycarbonate for mounting the reflector using the bayonet fitting. Diffusor made of transparent polycarbonate with internally satinised polycarbonate to protect the LED, clips into the functional module (opal diffuser available on request).

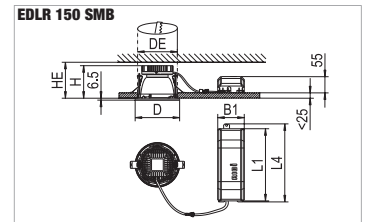
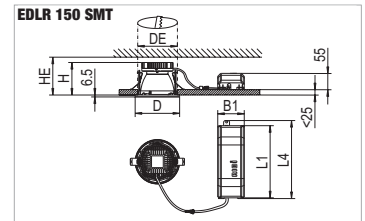
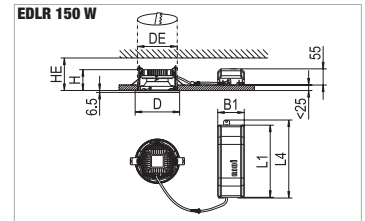
**Gear tray:** Gear tray plate made of galvanised steel, accommodates the electrical components, mains connector block, cable strain relief and connecting cable to the LED module. Clip-on heat resistant polycarbonate cover. Gear tray 90 mm high in emergency lighting version.

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- Dim. conv. DALI (-EDS3): Electronic DALI converter for LED, 220-240 Volts, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Emergency light element and maintenance-free NiCd battery for 3-hour maintained switching, with self test.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv. (-EDS3): Electronic converter for LED, 220- 240 Volts, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Emergency light element and maintenance-free NiCd battery for 3-hour maintained switching, with self test.

**Mounting:** In addition to the standard fixing clips for clamping thicknesses from 0 to 25 mm, special accessory fixing kits such as panel mounting kits, reinforcement plates, cast concrete housings, plaster rings, inclined mounting kits or semi-recessed mounting kits can be ordered.



### Non-standard designs:

- Decor ring RAL colours
- Opal coloured diffuser
- High-lumen packages
- Stepped switching



EDLR 150/1100 ... W

EDLR 150/2000 ... W

### EDLR 150/... W

Diameter 150 mm. High-reflectance white reflector made of pure high-reflectance aluminium, powder coated similar to RAL9016.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			B1	L1	L4	el. conv. Prod. code	dim. conv. DALI Prod. code		
						D	DE min	DE max							
EDLR 150/1100-830 W	1xLED-M 7 W	1070	8	133	830	150	135	140	85	105	90	245	265	0321307	0331307
EDLR 150/1100-830 W-EDS3	1xLED-M 7 W	1070	8	133	830	150	135	140	85	170	115	255	275	0321307//377	0331307//377
EDLR 150/1100-840 W	1xLED-M 7 W	1070	8	133	840	150	135	140	85	105	90	245	265	0321305	0331305
EDLR 150/1100-840 W-EDS3	1xLED-M 7 W	1070	8	133	840	150	135	140	85	170	115	255	275	0321305//377	0331305//377
EDLR 150/2000-830 W	1xLED-M 15 W	2037	17	119	830	150	135	140	85	105	90	245	265	0321310	0331310
EDLR 150/2000-830 W-EDS3	1xLED-M 15 W	2037	17	119	830	150	135	140	85	170	115	255	275	0321310//377	0331310//377
EDLR 150/2000-840 W	1xLED-M 15 W	2037	17	119	840	150	135	140	85	105	90	245	265	0321309	0331309
EDLR 150/2000-840 W-EDS3	1xLED-M 15 W	2037	17	119	840	150	135	140	85	170	115	255	275	0321309//377	0331309//377



EDLR 150/1100 ... SMT

EDLR 150/2000 ... SMT

### EDLR 150/... SMT

Diameter 150 mm. Matt narrow-beam reflector made of anodised pure aluminium.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			B1	L1	L4	el. conv. Prod. code	dim. conv. DALI Prod. code		
						D	DE min	DE max							
EDLR 150/1100-830 SMT	1xLED-M 7 W	991	8	123	830	150	135	140	95	105	90	245	265	0321308	0331308
EDLR 150/1100-830 SMT-EDS3	1xLED-M 7 W	991	8	123	830	150	135	140	95	170	115	255	275	0321308//377	0331308//377
EDLR 150/1100-840 SMT	1xLED-M 7 W	991	8	123	840	150	135	140	95	105	90	245	265	0321306	0331306
EDLR 150/1100-840 SMT-EDS3	1xLED-M 7 W	991	8	123	840	150	135	140	95	170	115	255	275	0321306//377	0331306//377
EDLR 150/2000-830 SMT	1xLED-M 15 W	1877	17	110	830	150	135	140	111	115	90	245	265	0321312	0331312
EDLR 150/2000-830 SMT-EDS3	1xLED-M 15 W	1877	17	110	830	150	135	140	111	170	115	255	275	0321312//377	0331312//377
EDLR 150/2000-840 SMT	1xLED-M 15 W	1877	17	110	840	150	135	140	111	115	90	245	265	0321311	0331311
EDLR 150/2000-840 SMT-EDS3	1xLED-M 15 W	1877	17	110	840	150	135	140	111	170	115	255	275	0321311//377	0331311//377





EDLR 150/2000 ... SMB

EDLR 150/2000 ... SMB

**EDLR 150/... SMB**

Diameter 150 mm. Matt wide-beam reflector made of anodised pure aluminium.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	DE min	DE max	Dimens. [mm]			B1	L1	L4	el. conv. Prod. code	dim. conv DALI Prod. code
									H	HE						
EDLR 150/1100-830 SMB	1xLED-M 7 W	969	8	121	830	150	135	140	94	105	90	245	265	0321353	0331353	
EDLR 150/1100-830 SMB-EDS3	1xLED-M 7 W	969	8	121	830	150	135	140	94	170	115	255	275	0321353//377	0331353//377	
EDLR 150/1100-840 SMB	1xLED-M 7 W	969	8	121	840	150	135	140	94	105	90	245	265	0321354	0331354	
EDLR 150/1100-840 SMB-EDS3	1xLED-M 7 W	969	8	121	840	150	135	140	94	170	115	255	275	0321354//377	0331354//377	
EDLR 150/2000-830 SMB	1xLED-M 15 W	1840	17	108	830	150	135	140	111	115	90	245	265	0321355	0331355	
EDLR 150/2000-830 SMB-EDS3	1xLED-M 15 W	1840	17	108	830	150	135	140	111	170	115	255	275	0321355//377	0331355//377	
EDLR 150/2000-840 SMB	1xLED-M 15 W	1840	17	108	840	150	135	140	111	115	90	245	265	0321356	0331356	
EDLR 150/2000-840 SMB-EDS3	1xLED-M 15 W	1840	17	108	840	150	135	140	111	170	115	255	275	0321356//377	0331356//377	

**Accessories**

Model	Description	Prod. code
BET EDLR	BET EDLR 150 Concrete casting box for EDLR 150 -in-situ concrete only-	0203002
DR150-DR-K	DR150-ASLP-K-D-W PMMA panel, longitudinal prisms for asym. light distribution, white	0208872
DR150-MPS-G-D-W	DR150-DPO-K-D-W Panel PMMA, embossed opal micro-prisms, white decorative ring	0208865
DR150-RFB-G-SB-W	DR150-DPS-K-D-W Panel PMMA, embossed micro-prisms, white decorative ring	0208855
DR150-RM-G-SB-W	DR150-DR-K-AL Decorative ring, brushed aluminium	0202674//634
DR150-SBDR-G-SB-W	DR150-DR-K-B-RAL Decorative ring PC w. steel cover ring, optional RAL colour	0202674RAL633
DR150-SK-G-D-W	DR150-DR-K-ES Decorative ring, brushed stainless steel	0202674//636
DR150-SM-G-D-W	DR150-DR-K-RAL Decorative ring painted plastic, optional RAL colour	0202674RAL
DR150-SO-G-D-W	DR150-DR-K-SG Decorative ring, specular aluminium silver	0202674//609
DR150-SPM-G-SB-W	DR150-DR-K-SM Decorative ring, matt aluminium silver	0202674//607
DR150-SPMA-G-SB-W	DR150-DR-K-W Decorative ring, white plastic	0202674
EPR EBD.	DR150-MPS-G-D-W Decor. float glass disc, microprisms with decor ring white	0204883
HES EBD	DR150-MPS-K-D-W Panel PMMA, protruding micro-prisms, white decorative ring	0209006
PES EBD.	DR150-RFB-G-SB-W Decor. safety glass, blue, internally open w. white ring	0202709
UGEBD ...UR	DR150-RM-G-SB-W Decor. safety glass, matt, int.open, white ring	0202691
VP EBD.	DR150-SBDR-G-SB-W Decorative safety glass, printed, with white decorative ring	0202718
ZES EBD	DR150-SK-G-D-W Transparent float glass disc with white decorative ring	0202862
	DR150-SM-G-D-W Float glass disc, matt finish, with white decorative ring	0202733
	DR150-SM-G-SB-W Decorative safety glass, matt exterior, white ring	0202700
	DR150-SM-K-D-W Decorative panel PMMA, satin finish, white decorative ring	0204861
	DR150-SO-G-D-W Float glass disc, opal finish, with white decorative ring	0202738
	DR150-SOM-K-D-W Panel PMMA, opal satin finish, white decorative ring	0208860
	DR150-SPM-G-SB-W Decorative safety glass, matt int., white decorative ring	0202682
	EPR EBD. 150 Plaster ring for projecting or flush ceiling mounting	0202837
	HES EBD 150/25 Semi recessed mounting kit, H = 25mm	0202806
	HES EBD 150/50 Semi recessed mounting kit, H = 50mm	0202807
	PES EBD. 150-100/200 Plank ceiling mounting kit, module 100 and 200 ceilings	0202782
	PES EBD. 150-150 Plank ceiling mounting kit, module 150 ceilings	0202783
	UGEBD... UGEBD Mounting bracket for gear tray UGEBD with PES EBD...	0202900
	UGEBD-UR Changeover relay for EBD..., (not for HIT lamps)	0201069
	VP EBD. 150-600 Strengthening plate for non-rigid module 600 ceilings	0202792
	VP EBD. 150-625 Strengthening plate for non-rigid module 625 ceilings	0202919
	ZES EBD 150-235/80 Fixing kit EBD 150 - 235, for ceiling thicknesses to 80 mm	0202928
	ZVDO-EDLR LED diffusor opal PC	0202478

<sup>1)</sup> IP 44 protection rating with this accessory when mounting in closed ceilings.

<sup>2)</sup> Recommended only with EDLR ... SMT

## Recessed downlighters EDLR 195, round

**Design:** Recessed downlighter, diameter 195 mm with LED module, comprising reflector housing and gear tray. Fitted with RIDI LED module, 1100, 2000 and 3000 lumen with passive heat sink. Protection rating on the room side IP 40, ceiling side IP20.

**Reflector housing:** Rigid mounting ring in die-cast metal with toolless fixing clips for ceiling mounting and reflector holding clips. Integrated fixture for toolless mounting of the decor ring and accessories. Decorative ring made of white polycarbonate with bayonet fitting. Functional module in white polycarbonate for mounting the reflector using the bayonet fitting. Diffuser made of transparent polycarbonate with internally satinised polycarbonate to protect the LED, clips into the functional module (opal diffuser available on request).

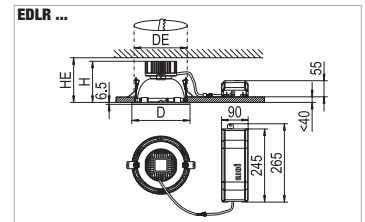
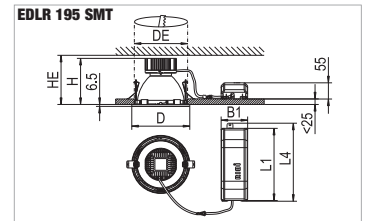
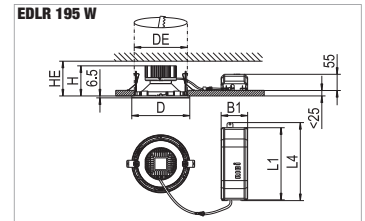
**Gear tray:** Gear tray plate made of galvanised steel, accommodates the electrical components, mains connector block, cable strain relief and connecting cable to the LED module. Clip-on heat resistant polycarbonate cover. Gear tray 90 mm high in emergency lighting version.

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- Dim. conv. DALI (-EDS3): Electronic DALI converter for LED, 220-240 Volts, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Emergency light element and maintenance-free NiCd battery for 3-hour maintained switching, with self test.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv. (-EDS3): Electronic converter for LED, 220- 240 Volts, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Emergency light element and maintenance-free NiCd battery for 3-hour maintained switching, with self test.

**Mounting:** In addition to the standard fixing clips for clamping thicknesses from 0 to 25 mm, special accessory fixing kits such as panel mounting kits, reinforcement plates, cast concrete housings, plaster rings, inclined mounting kits or semi-recessed mounting kits can be ordered.



### Non-standard designs:

- Decor ring RAL colours
- Opal coloured diffuser
- High-lumen packages
- Stepped switching

### EDLR 195/... W

Diameter 195 mm. High-reflectance white reflector made of pure aluminium, powder coated similar to RAL9016.



EDLR 195/1100 ... W

EDLR 195/2000 ... W

EDLR 195/3000 ... W

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			B1	L1	L4	el. conv. Prod. code	dim. conv. DALI Prod. code		
						D	DE min	DE max							
EDLR 195/1100-830 W	1xLED-M 7 W	1085	8	135	830	195	181	185	85	105	90	245	265	0321314	0331314
EDLR 195/1100-830 W-EDS3	1xLED-M 7 W	1085	8	135	830	195	181	185	85	125	115	255	275	0321314//377	0331314//377
EDLR 195/1100-840 W	1xLED-M 7 W	1085	8	135	840	195	181	185	85	105	90	245	265	0321313	0331313
EDLR 195/1100-840 W-EDS3	1xLED-M 7 W	1085	8	135	840	195	181	185	85	125	115	255	275	0321313//377	0331313//377
EDLR 195/2000-830 W	1xLED-M 15 W	2066	17	121	830	195	181	185	85	105	90	245	265	0321318	0331318
EDLR 195/2000-830 W-EDS3	1xLED-M 15 W	2066	17	121	830	195	181	185	85	125	115	255	275	0321318//377	0331318//377
EDLR 195/2000-840 W	1xLED-M 15 W	2066	17	121	840	195	181	185	85	105	90	245	265	0321317	0331317
EDLR 195/2000-840 W-EDS3	1xLED-M 15 W	2066	17	121	840	195	181	185	85	125	115	255	275	0321317//377	0331317//377
EDLR 195/3000-830 W	1xLED-M 23 W	3247	27	120	830	195	181	185	105	110	90	245	265	0321322	0331322
EDLR 195/3000-830 W-EDS3	1xLED-M 23 W	3247	27	120	830	195	181	185	105	125	115	255	275	0321322//377	0331322//377
EDLR 195/3000-840 W	1xLED-M 23 W	3247	27	120	840	195	181	185	105	110	90	245	265	0321321	0331321
EDLR 195/3000-840 W-EDS3	1xLED-M 23 W	3247	27	120	840	195	181	185	105	125	115	255	275	0321321//377	0331321//377

**EDLR 195/... SMT**

Diameter 195 mm. Matt narrow-beam reflector made of anodised pure aluminium.



EDLR 195/1100 ... SMT

EDLR 195/2000 ... SMT

EDLR 195/3000 ... SMT

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	DE min	DE max	Dimens. [mm]			B1	L1	L4	el. conv. Prod. code	dim. conv. DALI Prod. code
									H	HE						
EDLR 195/1100-830 SMT	1xLED-M 7 W	987	8	123	830	195	181	185	120	125	90	245	265	0321316	0331316	
EDLR 195/1100-830 SMT-EDS3	1xLED-M 7 W	987	8	123	830	195	181	185	120	125	115	255	275	0321316//377	0331316//377	
EDLR 195/1100-840 SMT	1xLED-M 7 W	987	8	123	840	195	181	185	120	125	90	245	265	0321315	0331315	
EDLR 195/1100-840 SMT-EDS3	1xLED-M 7 W	987	8	123	840	195	181	185	120	125	115	255	275	0321315//377	0331315//377	
EDLR 195/2000-830 SMT	1xLED-M 15 W	1890	17	111	830	195	181	185	137	140	90	245	265	0321320	0331320	
EDLR 195/2000-830 SMT-EDS3	1xLED-M 15 W	1890	17	111	830	195	181	185	137	140	115	255	275	0321320//377	0331320//377	
EDLR 195/2000-840 SMT	1xLED-M 15 W	1890	17	111	840	195	181	185	137	140	90	245	265	0321319	0331319	
EDLR 195/2000-840 SMT-EDS3	1xLED-M 15 W	1890	17	111	840	195	181	185	137	140	115	255	275	0321319//377	0331319//377	
EDLR 195/3000-830 SMT	1xLED-M 23 W	2957	27	109	830	195	181	185	160	165	90	245	265	0321324	0331324	
EDLR 195/3000-830 SMT-EDS3	1xLED-M 23 W	2957	27	109	830	195	181	185	160	165	115	255	275	0321324//377	0331324//377	
EDLR 195/3000-840 SMT	1xLED-M 23 W	2957	27	109	840	195	181	185	160	165	90	245	265	0321323	0331323	
EDLR 195/3000-840 SMT-EDS3	1xLED-M 23 W	2957	27	109	840	195	181	185	160	165	115	255	275	0321323//377	0331323//377	

**EDLR 195/... SMB**

Diameter 195 mm. Matt wide-beam reflector made of anodised pure aluminium.

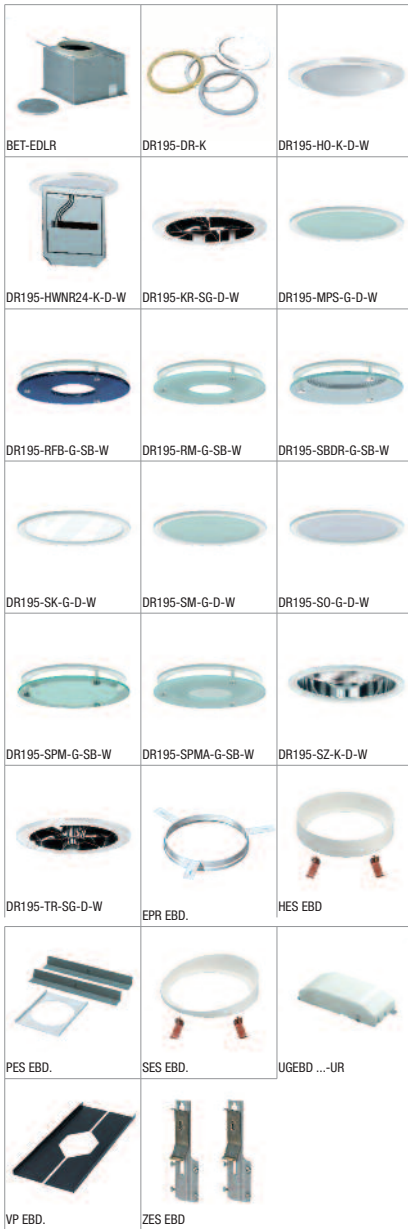


EDLR 195/1100 ... SMB

EDLR 195/2000 ... SMB

EDLR 195/3000 ... SMB

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	DE min	DE max	Dimens. [mm]			B1	L1	L4	el. conv. Prod. code	dim. conv. DALI Prod. code
									H	HE						
EDLR 195/1100-830 SMB	1xLED-M 7 W	994	8	124	830	195	181	185	103	105	90	245	265	0321357	0331357	
EDLR 195/1100-830 SMB-EDS3	1xLED-M 7 W	994	8	124	830	195	181	185	103	125	115	255	275	0321357//377	0331357//377	
EDLR 195/1100-840 SMB	1xLED-M 7 W	994	8	124	840	195	181	185	103	105	90	245	265	0321358	0331358	
EDLR 195/1100-840 SMB-EDS3	1xLED-M 7 W	994	8	124	840	195	181	185	103	125	115	255	275	0321358//377	0331358//377	
EDLR 195/2000-830 SMB	1xLED-M 15 W	1926	17	113	830	195	181	185	120	125	90	245	265	0321359	0331359	
EDLR 195/2000-830 SMB-EDS3	1xLED-M 15 W	1926	17	113	830	195	181	185	120	125	115	255	275	0321359//377	0331359//377	
EDLR 195/2000-840 SMB	1xLED-M 15 W	1926	17	113	840	195	181	185	120	125	90	245	265	0321360	0331360	
EDLR 195/2000-840 SMB-EDS3	1xLED-M 15 W	1926	17	113	840	195	181	185	120	125	115	255	275	0321360//377	0331360//377	
EDLR 195/3000-830 SMB	1xLED-M 23 W	3010	27	111	830	195	181	185	143	145	90	245	265	0321361	0331361	
EDLR 195/3000-830 SMB-EDS3	1xLED-M 23 W	3010	27	111	830	195	181	185	143	145	115	255	275	0321361//377	0331361//377	
EDLR 195/3000-840 SMB	1xLED-M 23 W	3010	27	111	840	195	181	185	143	145	90	245	265	0321362	0331362	
EDLR 195/3000-840 SMB-EDS3	1xLED-M 23 W	3010	27	111	840	195	181	185	143	145	115	255	275	0321362//377	0331362//377	



## Accessories

Model	Description	Prod. code
BET-EDLR	Concrete casting box for EDLR 195 -in-situ concrete only-	0203006
DR195-ASLP-K-D-W	PMMA panel, longitudinal prisms for asym. light distribution, white	0208873
<sup>1)</sup> DR195-DP0-K-D-W	Panel PMMA, embossed opal micro-prisms, white decorative ring	0208866
<sup>1)</sup> DR195-DPS-K-D-W	Panel PMMA, embossed micro-prisms, white decorative ring	0208856
DR195-DR-K-AL	Decorative ring, brushed aluminium	0202675/634
DR195-DR-K-B-RAL	Decorative ring PC w. steel cover ring, optional RAL colour	0202675RAL633
DR195-DR-K-ES	Decorative ring, brushed stainless steel	0202675/636
DR195-DR-K-RAL	Decorative ring, plastic coated, colour per choice from RAL colour chart	0202675RAL
DR195-DR-K-SG	Decorative ring, specular aluminium, silver	0202675/609
DR195-DR-K-SM	Decorative ring, matt aluminium, silver	0202675/607
DR195-DR-K-W	Decorative ring, white plastic	0202675
<sup>1)</sup> DR195-HO-K-D-W	Dished artificial opal glass with white decorative ring	0202748
<sup>4)</sup> DR195-HWNR1-K-D-W	Information sign No.1 with white decorative ring	0202802/701
<sup>4)</sup> DR195-HWNR11-K-D-W	Information sign No.11 with white decorative ring	0202802/711
<sup>4)</sup> DR195-HWNR12-K-D-W	Information sign No.12 with white decorative ring	0202802/712
<sup>4)</sup> DR195-HWNR13-K-D-W	Information sign No.13 with white decorative ring	0202802/713
<sup>4)</sup> DR195-HWNR17-K-D-W	Information sign No.17 with white decorative ring	0202802/717
<sup>4)</sup> DR195-HWNR21-K-D-W	Information sign No.21 with white decorative ring	0202802/721
<sup>4)</sup> DR195-HWNR22-K-D-W	Information sign No.22 with white decorative ring	0202802/722
<sup>4)</sup> DR195-HWNR23-K-D-W	Information sign No.23 with white decorative ring	0202802/723
<sup>4)</sup> DR195-HWNR24-K-D-W	Information sign No.24 with white decorative ring	0202802/724
<sup>4)</sup> DR195-HWNR4-K-D-W	Information sign No.4 with white decorative ring	0202802/704
<sup>4)</sup> DR195-HWNR5-K-D-W	Information sign No.5 with white decorative ring	0202802/705
<sup>4)</sup> DR195-HWNR8-K-D-W	Information sign No.8 with white decorative ring	0202802/708
<sup>4)</sup> DR195-HWNR9-K-D-W	Information sign No.9 with white decorative ring	0202802/709
<sup>2)</sup> DR195-KR-SG-D-W	Parabolic cross blade louvre, specular aluminium silver	0202662
<sup>1)</sup> DR195-MPS-G-D-W	Decor. float glass disc, microprisms with decor ring white	0204884
<sup>1)</sup> DR195-MPS-K-D-W	Panel PMMA, protruding micro-prisms, white decorative ring	0209007
DR195-RFB-G-SB-W	Decor. safety glass, blue, internally open w. white ring	0202710
DR195-RM-G-SB-W	Decor. safety glass, matt, int.open, white ring	0202692
DR195-SBDR-G-SB-W	Decorative safety glass, printed, with white decorative ring	0202719
<sup>1)</sup> DR195-SK-G-D-W	Transparent float glass disc with white decorative ring	0202863
<sup>1)</sup> DR195-SM-G-D-W	Float glass disc, matt finish, with white decorative ring	0202734
<sup>1)</sup> DR195-SM-K-D-W	Decorative panel PMMA, satin finish, white decorative ring	0204862
<sup>1)</sup> DR195-SO-G-D-W	Float glass disc, opal finish, with white decorative ring	0202739
<sup>1)</sup> DR195-SOM-K-D-W	Panel PMMA, opal satin finish, white decorative ring	0208861
DR195-SPM-G-SB-W	Decorative safety glass, matt int., white dec. ring	0202683
DR195-SPMA-G-SB-W	Decorative safety glass, matt exterior, white ring	0202701
<sup>2)</sup> DR195-SZ-K-D-W	Decorative trim, inset acrylic panel, white ring	0202778
<sup>2)</sup> DR195-TR-SG-D-W	Parabolic louvre w. inner ring, specular aluminium silver	0202658
EPR EBD. 195	Plaster ring for projecting or flush ceiling mounting	0202838
HES EBD 195/25	Semi-recessed mounting kit, H = 25mm	0202808
HES EBD 195/50	Semi-recessed mounting kit, H = 50mm	0202809
HES EBD 195/75	Semi-recessed mounting kit, H = 75mm	0202810
PES EBD. 195-100/150	Plank ceiling mounting kit, for module 100 and 150 ceilings	0202784
PES EBD. 195-100/200	Plank ceiling mounting kit, for module 100 and 200 ceilings	0202785
PES EBD... UGEBD	Mounting bracket for gear tray UGEBD with PES EBD...	0202900
SES EBD 195/10	Inclined ceiling mounting kit, 10 degree slope	0202819
SES EBD 195/15	Inclined ceiling mounting kit, 15 degree slope	0202820
UGEBD-UR	Changeover relay for EBD..., (not for HIT lamps)	0201069
VP EBD. 195-600	Strengthening plate for non-rigid module 600 ceilings	0202793
VP EBD. 195-625	Strengthening plate for non-rigid module 625 ceilings	0202920
ZES EBD 150-235/80	Fixing kit EBD 150 - 235, for ceiling thicknesses to 80 mm	0202928
ZVDO-EDLR	LED diffusor opal PC	0202478

<sup>1)</sup> IP 44 protection rating with this accessory when mounting in closed ceilings.

<sup>2)</sup> Only possible with EDLR ... SMT

<sup>3)</sup> Recommended only with EDLR ... SMT

<sup>4)</sup> The selection of available emergency signs is listed on the last page of this chapter.

## Recessed downlighter EDLR-ECO 195 with RIDI LED modules

**Design:** Recessed downlighter diameter 195 mm with LED module, comprising reflector housing and gear tray. Light engine with RIDI LED module fitted with high-efficiency mid-power LEDs. Nominal luminous flux light engine 1100, 2000 lumen with passive heat sink. Protection rating in the room IP40, at the ceiling IP20.

**Reflector housing:** Stable mounting ring in die-cast metal with toolless fixing clips for recessed ceiling mounting and reflector clips. Integrated retaining fixture for toolless mounting of the decor ring / accessories. Decor ring in white polycarbonate with bayonet catch. Light engine with light module made of white polycarbonate, to accommodate the reflector using a bayonet catch. Diffuser in transparent polycarbonate satinised on the inside to protect the LEDs, clipped into the function module.

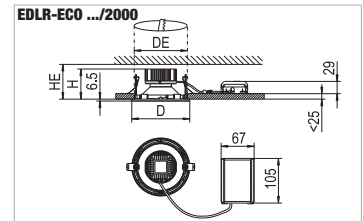
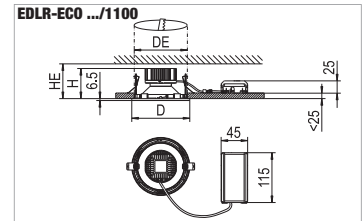
Colour rendering in index Ra  $\geq 80$ , colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- El. conv.: Electronic converter for LED, 220-240 Volt, 50-60 Hz and internal connector block 2x1.5mm<sup>2</sup>.

**Mounting:** Mounting in sawn ceiling openings. Fixing clips for ceiling thicknesses from 0 to 25 mm.

**Note:** Connecting terminals for one cable, max. 1.5 mm<sup>2</sup>. For feed-through wiring from lamp to lamp, a conduit/junction box must be provided on site.



**EDLR-ECO 195/... W**

Diameter 195 mm. Reflector white, in pure aluminium, powder-coated similar to RAL9016, high-reflectance.



EDLR-ECO 195/1100 ... W

EDLR-ECO 195/2000 ... W

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	
						D	DE min	DE max	H		HE
EDLR-ECO 195/1100-830 W	1xLED-M 7 W	1085	8	135	830	195	181	185	85	100	0321939
EDLR-ECO 195/1100-840 W	1xLED-M 7 W	1085	8	135	840	195	181	185	85	100	0321940
EDLR-ECO 195/2000-830 W	1xLED-M 15 W	2066	17	121	830	195	181	185	85	100	0321941
EDLR-ECO 195/2000-840 W	1xLED-M 15 W	2066	17	121	840	195	181	185	85	100	0321942

# EDLR 235

## Recessed downlighters EDLR 235, round

**Design:** Recessed downlighter, diameter 235 mm with LED module, comprising reflector housing and gear tray. Fitted with RIDI LED module, 2000, 3000, 4000 and 5000 lumen with passive heat sink. Protection rating on the room side IP 40, ceiling side IP20.

**Reflector housing:** Rigid mounting ring in die-cast metal with toolless clamping mechanism for ceiling mounting and reflector holding clips. Integrated fixture for toolless mounting of the decor ring and accessories. Decorative ring made of white polycarbonate with bayonet fitting. Functional module in white polycarbonate for mounting the reflector using the bayonet fitting. Diffusor made of transparent polycarbonate with internally satinised polycarbonate to protect the LED, clips into the functional module (opal diffuser available on request).

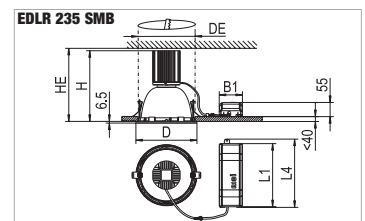
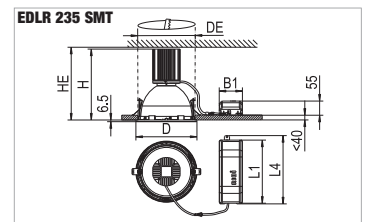
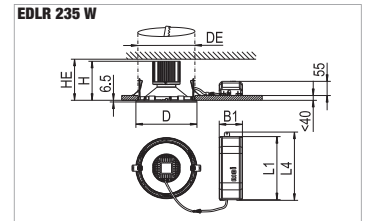
**Gear tray:** Gear tray plate made of galvanised steel, accommodates the electrical components, mains connector block, cable strain relief and connecting cable to the LED module. Clip-on heat resistant polycarbonate cover. Gear tray 90 mm high in emergency lighting version.

Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- Dim. conv. DALI (-EDS3): Electronic DALI converter for LED, 220-240 Volts, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Emergency light element and maintenance-free NiCd battery for 3-hour maintained switching, with self test.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv. (-EDS3): Electronic converter for LED, 220- 240 Volts, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Emergency light element and maintenance-free NiCd battery for 3-hour maintained switching, with self test.

**Mounting:** In addition to the standard fixing clips for clamping thicknesses from 0 to 40 mm, special accessory fixing kits such as panel mounting kits, reinforcement plates, cast concrete housings, plaster rings, inclined mounting kits or semi-recessed mounting kits can be ordered.



### Non-standard designs:

- Decor ring RAL colours
- Opal coloured diffuser
- Stepped switching

### EDLR 235/... W

Diameter 235 mm. White reflector made of pure high-reflectance aluminium, powder coated similar to RAL9016.



EDLR 235/2000 ... W

EDLR 235/3000 ... W

EDLR 235/4000 ... W

EDLR 235/5000 ... W

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	DE min	DE max	Dimens. [mm]				B1	L1	L4	el. conv. Prod. code	dim. conv. DALI Prod. code
									H	HE	L1	L4					
EDLR 235/2000-830 W	1xLED-M 15 W	2071	17	121	830	235	223	225	92	100	90	245	265	0321326	0331326		
EDLR 235/2000-830 W-EDS3	1xLED-M 15 W	2071	17	121	830	235	223	225	92	135	115	255	275	0321326//377	0331326//377		
EDLR 235/2000-840 W	1xLED-M 15 W	2071	17	121	840	235	223	225	92	100	90	245	265	0321325	0331325		
EDLR 235/2000-840 W-EDS3	1xLED-M 15 W	2071	17	121	840	235	223	225	92	135	115	255	275	0321325//377	0331325//377		
EDLR 235/3000-830 W	1xLED-M 23 W	3260	27	120	830	235	223	225	115	120	90	245	265	0321330	0331330		
EDLR 235/3000-830 W-EDS3	1xLED-M 23 W	3260	27	120	830	235	223	225	115	135	115	255	275	0321330//377	0331330//377		
EDLR 235/3000-840 W	1xLED-M 23 W	3260	27	120	840	235	223	225	115	120	90	245	265	0321329	0331329		
EDLR 235/3000-840 W-EDS3	1xLED-M 23 W	3260	27	120	840	235	223	225	115	135	115	255	275	0321329//377	0331329//377		
EDLR 235/4000-830 W	1xLED-M 30 W	4046	35	115	830	235	223	225	135	140	115	255	275	0321334	0331334		
EDLR 235/4000-830 W-EDS3	1xLED-M 30 W	4046	35	115	830	235	223	225	135	140	115	255	275	0321334//377	0331334//377		
EDLR 235/4000-840 W	1xLED-M 30 W	4046	35	115	840	235	223	225	135	140	115	255	275	0321333	0331333		
EDLR 235/4000-840 W-EDS3	1xLED-M 30 W	4046	35	115	840	235	223	225	135	140	115	255	275	0321333//377	0331333//377		
EDLR 235/5000-830 W	1xLED-M 42 W	5188	47	110	830	235	223	225	175	180	115	255	275	0321461	0331461		
EDLR 235/5000-840 W	1xLED-M 42 W	5188	47	110	840	235	223	225	175	180	115	255	275	0321464	0331464		

**EDLR 235/... SMT**

Diameter 235 mm. Matt narrow-beam reflector made of anodised pure aluminium.



EDLR 235/2000 ... SMT

EDLR 235/3000 ... SMT

EDLR 235/4000 ... SMT

EDLR 235/5000 ... SMT

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	DE min	DE max	Dimens. [mm]			B1	L1	L4	el. conv. Prod. code	dim. conv. DALI Prod. code
									H	HE	HE					
EDLR 235/2000-830 SMT	1xLED-M 15 W	1835	17	107	830	235	223	225	172	175	90	245	265	0321328	0331328	
EDLR 235/2000-830 SMT-EDS3	1xLED-M 15 W	1835	17	107	830	235	223	225	172	175	115	255	275	0321328//377	0331328//377	
EDLR 235/2000-840 SMT	1xLED-M 15 W	1835	17	107	840	235	223	225	172	175	90	245	265	0321327	0331327	
EDLR 235/2000-840 SMT-EDS3	1xLED-M 15 W	1835	17	107	840	235	223	225	172	175	115	255	275	0321327//377	0331327//377	
EDLR 235/3000-830 SMT	1xLED-M 23 W	2930	27	108	830	235	223	225	195	200	90	245	265	0321332	0331332	
EDLR 235/3000-830 SMT-EDS3	1xLED-M 23 W	2930	27	108	830	235	223	225	195	200	115	255	275	0321332//377	0331332//377	
EDLR 235/3000-840 SMT	1xLED-M 23 W	2930	27	108	840	235	223	225	195	200	90	245	265	0321331	0331331	
EDLR 235/3000-840 SMT-EDS3	1xLED-M 23 W	2930	27	108	840	235	223	225	195	200	115	255	275	0321331//377	0331331//377	
EDLR 235/4000-830 SMT	1xLED-M 30 W	3562	35	101	830	235	223	225	215	220	115	255	275	0321336	0331336	
EDLR 235/4000-830 SMT-EDS3	1xLED-M 30 W	3562	35	101	830	235	223	225	215	220	115	255	275	0321336//377	0331336//377	
EDLR 235/4000-840 SMT	1xLED-M 30 W	3562	35	101	840	235	223	225	215	220	115	255	275	0321335	0331335	
EDLR 235/4000-840 SMT-EDS3	1xLED-M 30 W	3562	35	101	840	235	223	225	215	220	115	255	275	0321335//377	0331335//377	
EDLR 235/5000-830 SMT	1xLED-M 42 W	4567	47	97	830	235	223	225	255	260	115	255	275	0321460	0331460	
EDLR 235/5000-840 SMT	1xLED-M 42 W	4567	47	97	840	235	223	225	255	260	115	255	275	0321463	0331463	

**EDLR 235/... SMB**

Diameter 235 mm. Matt wide-beam reflector made of anodised pure aluminium.



EDLR 235/2000 ... SMB




EDLR 235/3000 ... SMB

EDLR 235/4000 ... SMB

EDLR 235/5000 ... SMB

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	DE min	DE max	Dimens. [mm]			B1	L1	L4	el. conv. Prod. code	dim. conv. DALI Prod. code
									H	HE	HE					
EDLR 235/2000-830 SMB	1xLED-M 15 W	1880	17	110	830	235	223	225	172	175	90	245	265	0321363	0331363	
EDLR 235/2000-830 SMB-EDS3	1xLED-M 15 W	1880	17	110	830	235	223	225	172	175	115	255	275	0321363//377	0331363//377	
EDLR 235/2000-840 SMB	1xLED-M 15 W	1880	17	110	840	235	223	225	172	175	90	245	265	0321364	0331364	
EDLR 235/2000-840 SMB-EDS3	1xLED-M 15 W	1880	17	110	840	235	223	225	172	175	115	255	275	0321364//377	0331364//377	
EDLR 235/3000-830 SMB	1xLED-M 23 W	2934	27	108	830	235	223	225	195	200	90	245	265	0321365	0331365	
EDLR 235/3000-830 SMB-EDS3	1xLED-M 23 W	2934	27	108	830	235	223	225	195	200	115	255	275	0321365//377	0331365//377	
EDLR 235/3000-840 SMB	1xLED-M 23 W	2934	27	108	840	235	223	225	195	200	90	245	265	0321366	0331366	
EDLR 235/3000-840 SMB-EDS3	1xLED-M 23 W	2934	27	108	840	235	223	225	195	200	115	255	275	0321366//377	0331366//377	
EDLR 235/4000-830 SMB	1xLED-M 30 W	3706	35	105	830	235	223	225	215	220	115	255	275	0321367	0331367	
EDLR 235/4000-830 SMB-EDS3	1xLED-M 30 W	3706	35	105	830	235	223	225	215	220	115	255	275	0321367//377	0331367//377	
EDLR 235/4000-840 SMB	1xLED-M 30 W	3706	35	105	840	235	223	225	215	220	115	255	275	0321368	0331368	
EDLR 235/4000-840 SMB-EDS3	1xLED-M 30 W	3706	35	105	840	235	223	225	215	220	115	255	275	0321368//377	0331368//377	
EDLR 235/5000-830 SMB	1xLED-M 42 W	4589	47	97	830	235	223	225	235	240	115	255	275	0321459	0331459	
EDLR 235/5000-840 SMB	1xLED-M 42 W	4589	47	97	840	235	223	225	235	240	115	255	275	0321462	0331462	

## Accessories

Model	Description	Prod. code
 BET-EDLR	BET EDLR 235 Concrete casting box for EDLR 235 -in-situ concrete only-	0203010
 DR235-DR-K	DR235-ASLP-K-D-W PMMA panel, longitudinal prisms for asym. light distribution, white	0208874
 DR235-HO-K-D-W	<sup>1)</sup> DR235-DP0-K-D-W Panel PMMA, embossed opal micro-prisms, white decorative ring	0208867
	<sup>1)</sup> DR235-DPS-K-D-W Panel PMMA, embossed micro-prisms, white decorative ring	0208857
	<sup>1)</sup> DR235-DR-K-AL Decorative ring, brushed aluminium	0202676/634
	DR235-DR-K-B-RAL Decorative ring PC w. steel cover ring, optional RAL colour	0202676RAL633
	DR235-DR-K-ES Decorative ring, brushed stainless steel	0202676/636
	DR235-DR-K-RAL Decorative ring, plastic coated, colour per choice from RAL colour chart	0202676RAL
	DR235-DR-K-SG Decorative ring, specular aluminium silver	0202676/609
	DR235-DR-K-SM Decorative ring, matt aluminium silver	0202676/607
	DR235-DR-K-W Decorative ring, white plastic	0202676
	<sup>1)</sup> DR235-HO-K-D-W Dished artificial opal glass with white decorative ring	0202749
	<sup>4)</sup> DR235-HWNR1-K-D-W Information sign No.1 with white decorative ring	0202803//701
	<sup>4)</sup> DR235-HWNR11-K-D-W Information sign No.11 with white decorative ring	0202803//711
	<sup>4)</sup> DR235-HWNR12-K-D-W Information sign No.12 with white decorative ring	0202803//712
	<sup>4)</sup> DR235-HWNR13-K-D-W Information sign No.13 with white decorative ring	0202803//713
	<sup>4)</sup> DR235-HWNR17-K-D-W Information sign No.17 with white decorative ring	0202803//717
	<sup>4)</sup> DR235-HWNR21-K-D-W Information sign No.21 with white decorative ring	0202803//721
	<sup>4)</sup> DR235-HWNR22-K-D-W Information sign No.22 with white decorative ring	0202803//722
	<sup>4)</sup> DR235-HWNR23-K-D-W Information sign No.23 with white decorative ring	0202803//723
	<sup>4)</sup> DR235-HWNR24-K-D-W Information sign No.24 with white decorative ring	0202803//724
	<sup>4)</sup> DR235-HWNR4-K-D-W Information sign No.4 with white decorative ring	0202803//704
	<sup>4)</sup> DR235-HWNR5-K-D-W Information sign No.5 with white decorative ring	0202803//705
	<sup>4)</sup> DR235-HWNR8-K-D-W Information sign No.8 with white decorative ring	0202803//708
	<sup>4)</sup> DR235-HWNR9-K-D-W Information sign No.9 with white decorative ring	0202803//709
	<sup>2)</sup> DR235-KR-SG-D-W Parabolic cross blade louvre, specular aluminium silver	0202663
	<sup>1)</sup> DR235-MPS-G-D-W Decor. float glass disc, microprisms with decor ring white	0204885
	<sup>1)</sup> DR235-MPS-K-D-W Panel PMMA, protruding micro-prisms, white decorative ring	0209008
	DR235-RFB-G-SB-W Decor. safety glass, blue, internally open w. white ring	0202711
	DR235-RM-G-SB-W Decor. safety glass, matt, int.open, white ring	0202693
	DR235-SBDR-G-SB-W Decorative safety glass, printed, with white decorative ring	0202720
	<sup>1)</sup> DR235-SK-G-D-W Transparent float glass disc with white decorative ring	0202864
	<sup>1)</sup> DR235-SM-G-D-W Float glass disc, matt finish, with white decorative ring	0202735
	<sup>1)</sup> DR235-SM-K-D-W Decorative panel PMMA, satin finish, white decorative ring	0204863
	<sup>1)</sup> DR235-SO-G-D-W Float glass disc, opal finish, with white decorative ring	0202740
	<sup>1)</sup> DR235-SOM-K-D-W Panel PMMA, opal satin finish, white decorative ring	0208862
	DR235-SPM-G-SB-W Decorative safety glass, matt int., white dec. ring	0202684
	DR235-SPMA-G-SB-W Decorative safety glass, matt exterior, white ring	0202702
	<sup>2)</sup> DR235-SZ-K-D-W Decorative trim, inset acrylic panel, white ring	0202779
	<sup>2)</sup> DR235-TR-SG-D-W Parabolic louvre with inner ring, specular aluminium silver	0202659
	EPR EBD. 235 Plaster ring for projecting or flush ceiling mounting	0202839
	HES EBD 235/25 Semi-recessed mounting kit, H = 25mm	0202811
	HES EBD 235/50 Semi-recessed mounting kit, H = 50mm	0202812
	HES EBD 235/75 Semi-recessed mounting kit, H = 75mm	0202813
	PES EBD. 235-100/150 Plank ceiling mounting kit, module 100 and 150	0202786
	PES EBD. 235-200 Plank ceiling mounting kit, module 200	0202787
	PES EBD... UGEBD Mounting bracket for gear tray UGEBD with PES EBD...	0202900
	SES EBD 235/10 Inclined ceiling mounting kit, 10 degree slope	0202822
	SES EBD 235/5 Inclined ceiling mounting kit, 5 degree slope	0202821
	UGEBD-UR Changeover relay for EBD..., (not for HIT lamps)	0201069
	VP EBD. 235-600 Strengthening plate for non-rigid module 600 ceilings	0202794
	VP EBD. 235-625 Strengthening plate for non-rigid module 625 ceilings	0202921
	ZES EBD 150-235/80 Fixing kit EBD 150 - 235, for ceiling thicknesses to 80 mm	0202928
	ZVDO-EDLR LED diffusor opal PC	0202478

<sup>1)</sup> IP 44 protection rating with this accessory when mounting in closed ceilings.

<sup>2)</sup> Only possible with EDLR ... SMT

<sup>3)</sup> Recommended only with EDLR ... SMT

<sup>4)</sup> The selection of available emergency signs is listed on the last page of this chapter.



## Recessed downlighter EDLR-ECO 235 with RIDI LED modules

**Design:** Recessed downlighter diameter 235 mm with LED module, comprising reflector housing and gear tray. Light engine with RIDI LED module fitted with high-efficiency mid-power LEDs. Nominal luminous flux light engine 1100, 2000 lumen with passive heat sink. Protection rating in the room IP40, at the ceiling IP20.

**Reflector housing:** Stable mounting ring in die-cast metal with toolless fixing clips for recessed ceiling mounting and reflector clips. Integrated retaining fixture for toolless mounting of the decor ring / accessories. Decor ring in white polycarbonate with bayonet catch. Light engine with light module made of white polycarbonate, to accommodate the reflector using a bayonet catch. Diffuser in transparent polycarbonate satinised on the inside to protect the LEDs, clipped into the function module.

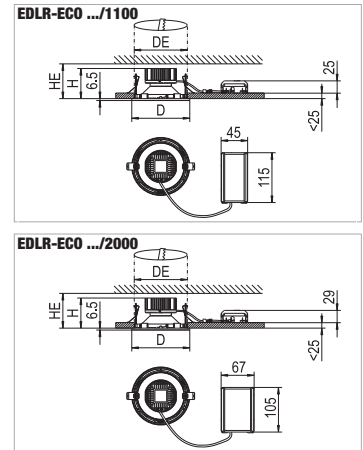
Colour rendering in index Ra  $\geq 80$ , colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- El. conv.: Electronic converter for LED, 220-240 Volt, 50-60 Hz and internal connector block 2x1.5mm<sup>2</sup>.

**Mounting:** Mounting in sawn ceiling openings. Fixing clips for ceiling thicknesses from 0 to 25 mm.

**Note:** Connecting terminals for one cable, max. 1.5 mm<sup>2</sup>. For feed-through wiring from lamp to lamp, a conduit/junction box must be provided on site.



### EDLR-ECO 235/... W

Diameter 235 mm. Reflector white, in pure aluminium, powder-coated similar to RAL9016, high-reflectance.



EDLR-ECO 235/1100 ... W

EDLR-ECO 235/2000 ... W

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	Dimens. [mm]				el. conv. Prod. code
							DE min	DE max	H	HE	
EDLR-ECO 235/1100-830 W	1xLED-M 7 W	1085	8	135	830	235	223	225	85	100	0321943
EDLR-ECO 235/1100-840 W	1xLED-M 7 W	1085	8	135	840	235	223	225	85	100	0321944
EDLR-ECO 235/2000-830 W	1xLED-M 15 W	2071	17	121	830	235	223	225	92	100	0321945
EDLR-ECO 235/2000-840 W	1xLED-M 15 W	2071	17	121	840	235	223	225	92	100	0321946

## Recessed downlighters EDLR 275, round

**Design:** Recessed downlighter, diameter 275mm.

Stable mounting ring made of metal die-cast with mounting brackets that can be operated tool-free for the installation into the ceiling. Integrated holder for tool-free mounting of the decorative ring and accessories, respectively. White polycarbonate decorative ring with bayonet lock.

LED module designed as surface board. Mid-power LEDs for constant illumination and maximal efficiency. LED driver mounted into the housing.

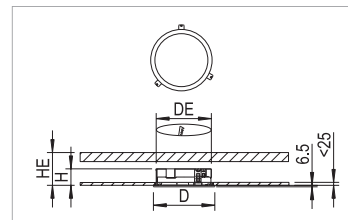
Protection class IP40 on room side, IP20 on ceiling side.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup>.

**Mounting:** In addition to the standard fixing clips for clamping thicknesses from 0 to 25 mm, special accessory fixing kits such as panel mounting kits, reinforcement plates, cast concrete housings, plaster rings, inclined mounting kits or semi-recessed mounting kits can be ordered.



**EDLR 275/... DPO**

Cover panel with embossed microprisms in UV-stabilised PMMA. Inside additional opal panel, satinised, in UV-stabilised PMMA. Homogenous illumination of the panel without visible LED spots.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	Dimens. [mm]		H	HE	el. conv. Prod. code	dim. conv. DALI Prod. code
							DE min	DE max				
EDLR 275/3000-840 DPO	1xLED-M 17 W	2240	22	101	840	275	262	265	75	90	0321223	0331223
EDLR 275/4000-840 DPO	1xLED-M 24 W	2980	28	106	840	275	262	265	75	90	0321227	0331227



**EDLR 275/... DPS**

Cover panel with embossed microprisms in UV-stabilised PMMA. LEDs appear as several spots.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	Dimens. [mm]		H	HE	el. conv. Prod. code	dim. conv. DALI Prod. code
							DE min	DE max				
EDLR 275/3000-840 DPS	1xLED-M 17 W	2580	22	117	840	275	262	265	75	90	0321224	0331224
EDLR 275/4000-840 DPS	1xLED-M 24 W	3430	28	122	840	275	262	265	75	90	0321228	0331228



**EDLR 275/... MPS**

Cover panel with raised microprisms for optimum glare reduction in UV-stabilised PMMA. LEDs appear as circles.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	Dimens. [mm]		H	HE	el. conv. Prod. code	dim. conv. DALI Prod. code
							DE min	DE max				
EDLR 275/3000-840 MPS	1xLED-M 17 W	2030	22	92	840	275	262	265	75	90	0321225	0331225
EDLR 275/4000-840 MPS	1xLED-M 24 W	2700	28	96	840	275	262	265	75	90	0321229	0331229



**EDLR 275/... OS**

Cover panel opal, satinised, in UV-stabilised PMMA. Homogenous lighting of the panel without visible LED spots.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	Dimens. [mm]		H	HE	el. conv. Prod. code	dim. conv. DALI Prod. code
							DE min	DE max				
EDLR 275/3000-840 OS	1xLED-M 17 W	2460	22	111	840	275	262	265	75	90	0321226	0331226
EDLR 275/4000-840 OS	1xLED-M 24 W	3270	28	116	840	275	262	265	75	90	0321230	0331230

## Recessed downlighters EDLR 340, round

**Design:** Recessed downlighter, diameter 340mm.

Stable mounting ring made of metal die-cast with mounting brackets that can be operated tool-free for the installation into the ceiling. Integrated holder for tool-free mounting of the decorative ring and accessories, respectively. White polycarbonate decorative ring with bayonet lock.

LED module designed as surface board. Mid-power LEDs for constant illumination and maximal efficiency. LED driver mounted into the housing.

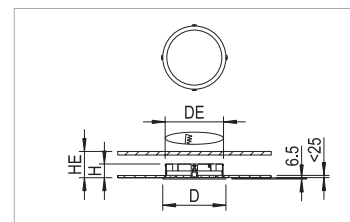
Protection class IP40 on room side, IP20 on ceiling side.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup>.

**Mounting:** In addition to the standard fixing clips for clamping thicknesses from 0 to 25 mm, special accessory fixing kits such as panel mounting kits, reinforcement plates, cast concrete housings, plaster rings, inclined mounting kits or semi-recessed mounting kits can be ordered.



**EDLR 340/... DPO**

Cover panel with embossed microprisms in UV-stabilised PMMA. Inside additional opal panel, satinised, in UV-stabilised PMMA. Homogenous illumination of the panel without visible LED spots.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	Dimens. [mm]		H	HE	el. conv. Prod. code	dim. conv. DALI Prod. code
							DE min	DE max				
EDLR 340/4000-840 DPO	1xLED-M 24 W	-tba-	-tba-	-tba-	840	340	320	325	75	90	0321215	0331215
EDLR 340/5000-840 DPO	1xLED-M 32 W	-tba-	-tba-	-tba-	840	340	320	325	75	90	0321219	0331219



**EDLR 340/... DPS**

Cover panel with embossed microprisms in UV-stabilised PMMA. LEDs appear as several spots.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	Dimens. [mm]		H	HE	el. conv. Prod. code	dim. conv. DALI Prod. code
							DE min	DE max				
EDLR 340/4000-840 DPS	1xLED-M 24 W	-tba-	-tba-	-tba-	840	340	320	325	75	90	0321216	0331216
EDLR 340/5000-840 DPS	1xLED-M 32 W	-tba-	-tba-	-tba-	840	340	320	325	75	90	0321220	0331220



**EDLR 340/... MPS**

Cover panel with raised microprisms for optimum glare reduction in UV-stabilised PMMA. LEDs appear as circles.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	Dimens. [mm]		H	HE	el. conv. Prod. code	dim. conv. DALI Prod. code
							DE min	DE max				
EDLR 340/4000-840 MPS	1xLED-M 24 W	-tba-	-tba-	-tba-	840	340	320	325	75	90	0321217	0331217
EDLR 340/5000-840 MPS	1xLED-M 32 W	-tba-	-tba-	-tba-	840	340	320	325	75	90	0321221	0331221



**EDLR 340/... OS**

Cover panel opal, satinised, in UV-stabilised PMMA. Homogenous lighting of the panel without visible LED spots.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	Dimens. [mm]		H	HE	el. conv. Prod. code	dim. conv. DALI Prod. code
							DE min	DE max				
EDLR 340/4000-840 OS	1xLED-M 24 W	-tba-	-tba-	-tba-	840	340	320	325	75	90	0321218	0331218
EDLR 340/5000-840 OS	1xLED-M 32 W	-tba-	-tba-	-tba-	840	340	320	325	75	90	0321222	0331222

# EDLR 410

## Recessed downlighters EDLR 410, round

**Design:** Recessed downlighter, diameter 410mm.

Stable mounting ring made of metal die-cast with mounting brackets that can be operated tool-free for the installation into the ceiling. Integrated holder for tool-free mounting of the decorative ring and accessories, respectively. White polycarbonate decorative ring with bayonet lock.

LED module designed as surface board. Mid-power LEDs for constant illumination and maximal efficiency. LED driver mounted into the housing.

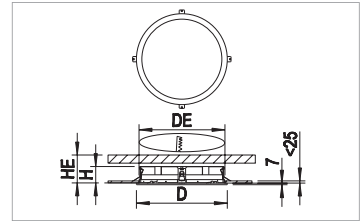
Protection class IP40 on room side, IP20 on ceiling side.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup>.

**Mounting:** In addition to the standard fixing clips for clamping thicknesses from 0 to 25 mm, special accessory fixing kits such as panel mounting kits, reinforcement plates, cast concrete housings, plaster rings, inclined mounting kits or semi-recessed mounting kits can be ordered.



**EDLR 410/... DPO**

Cover panel with embossed microprisms in UV-stabilised PMMA. Inside additional opal panel, satinised, in UV-stabilised PMMA. Homogenous illumination of the panel without visible LED spots.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code	
						D	DE min	DE max	H			HE
EDLR 410/5000-840 DPO	1xLED-M 28 W	3904	33	118	840	410	395	400	85	90	0320249	0330249
EDLR 410/6000-840 DPO	1xLED-M 36 W	4715	41	115	840	410	395	400	82	90	0321211	0331211



**EDLR 410/... DPS**

Cover panel with embossed microprisms in UV-stabilised PMMA. LEDs appear as several spots.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code	
						D	DE min	DE max	H			HE
EDLR 410/5000-840 DPS	1xLED-M 28 W	4394	33	133	840	410	395	400	85	90	0320250	0330250
EDLR 410/6000-840 DPS	1xLED-M 36 W	5285	41	128	840	410	395	400	82	90	0321212	0331212



**EDLR 410/... OS**

Cover panel opal, satinised, in UV-stabilised PMMA. Homogenous lighting of the panel without visible LED spots.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code	
						D	DE min	DE max	H			HE
EDLR 410/5000-840 OS	1xLED-M 28 W	4094	33	124	840	410	395	400	85	90	0320252	0330252
EDLR 410/6000-840 OS	1xLED-M 36 W	4935	41	120	840	410	395	400	82	90	0321214	0331214



**EDLR 410/... MPS**

Cover panel with raised microprisms for optimum glare reduction in UV-stabilised PMMA. LEDs appear as circles.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code	
						D	DE min	DE max	H			HE
EDLR 410/5000-840 MPS	1xLED-M 28 W	3550	33	107	840	410	395	400	85	90	0320251	0330251
EDLR 410/6000-840 MPS	1xLED-M 36 W	4270	41	104	840	410	395	400	82	90	0321213	0331213



## Recessed downlighters EDLQ 195, square

**Design:** Square recessed downlighter, edge length 150 mm with LED module, comprising reflector housing and gear tray. Fitted with RIDI LED module, 1100 and 2000 lumen with passive heat sink. Protection rating on the room side IP 40, ceiling side IP20.

**Reflector housing:** Rigid mounting frame in galvanised steel with toolless clamping mechanism for ceiling mounting. Mounting frame designed for toolless fitting of the decorative frame and accessories (to be ordered separately). Decorative frame designed for toolless mounting (accessory, to be ordered separately). Functional module in white polycarbonate for mounting the reflector using the bayonet fitting. Diffuser made of transparent polycarbonate with internally satinised polycarbonate to protect the LED, clips into the functional module (opal diffuser available on request).

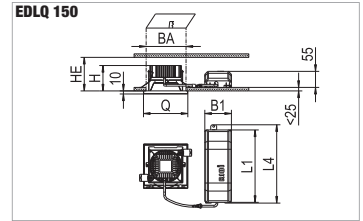
**Gear tray:** Gear tray plate made of galvanised steel, accommodates all electrical components, mains connector block, cable strain relief and connecting cable to the LED module. Clip-on heat resistant polycarbonate cover. Gear tray 90 mm high in emergency lighting version.

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- Dim. conv. DALI (-EDS3): Electronic DALI converter for LED, 220-240 Volts, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Emergency light element and maintenance-free NiCd battery for 3-hour maintained switching, with self test.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv. (-EDS3): Electronic converter for LED, 220- 240 Volts, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Emergency light element and maintenance-free NiCd battery for 3-hour maintained switching, with self test.

**Mounting:** Standard fixing clamps for clamping thicknesses from 0 to 25 mm. Other clamping thicknesses or fixing kits for special ceilings are available on request.



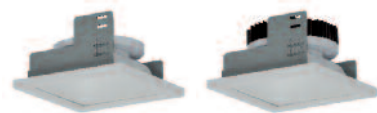
### Non-standard designs:

- Decor rings in RAL colours
- Emergency light versions
- Opal coloured diffuser
- High lumen packages
- Stepped switching



### EDLQ 150/... W

Edge length 150 mm. High-reflectance white reflector made of steel, powder coated similar to RAL9016.



EDLQ 150/1100 ... W

EDLQ 150/2000 ... W

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Q	H	HE	Dimens. [mm]			BA min	BA max	el. conv. Prod. code	dim. conv. DALI Prod. code
									L1	L4	B1				
EDLQ 150/1100-830 W	1xLED-M 7 W	1060	8	132	830	150	70	105	245	265	90	122	125	0321338	0331338
EDLQ 150/1100-830 W-EDS3	1xLED-M 7 W	1060	8	132	830	150	70	170	255	275	115	122	125	0321338//377	0331338//377
EDLQ 150/1100-840 W	1xLED-M 7 W	1060	8	132	840	150	70	105	245	265	90	122	125	0321337	0331337
EDLQ 150/1100-840 W-EDS3	1xLED-M 7 W	1060	8	132	840	150	70	170	255	275	115	122	125	0321337//377	0331337//377
EDLQ 150/2000-830 W	1xLED-M 15 W	2024	17	119	830	150	70	105	245	265	90	122	125	0321340	0331340
EDLQ 150/2000-830 W-EDS3	1xLED-M 15 W	2024	17	119	830	150	70	170	255	275	115	122	125	0321340//377	0331340//377
EDLQ 150/2000-840 W	1xLED-M 15 W	2024	17	119	840	150	70	105	245	265	90	122	125	0321339	0331339
EDLQ 150/2000-840 W-EDS3	1xLED-M 15 W	2024	17	119	840	150	70	170	255	275	115	122	125	0321339//377	0331339//377

### EDLQ 150/... SM

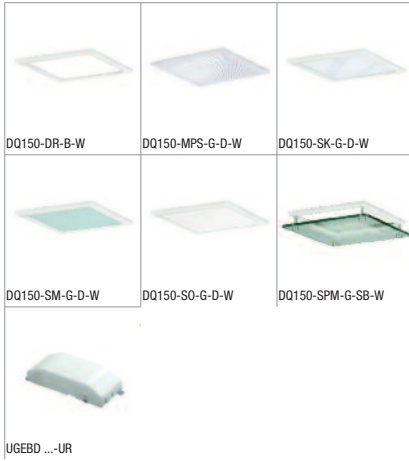
Edge length 150 mm. High-reflectance matt anodised super-purity aluminium with silver coating, wide-beam.



EDLQ 150/1100 ... SM

EDLQ 150/1100 ... SM

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Q	H	HE	Dimens. [mm]			BA min	BA max	el. conv. Prod. code	dim. conv. DALI Prod. code
									L1	L4	B1				
EDLQ 150/1100-830 SM	1xLED-M 7 W	1066	8	133	830	150	80	105	245	265	90	122	125	0321370	0331370
EDLQ 150/1100-830 SM-EDS3	1xLED-M 7 W	1066	8	133	830	150	80	170	255	275	115	122	125	0321370//377	0331370//377
EDLQ 150/1100-840 SM	1xLED-M 7 W	1066	8	133	840	150	80	105	245	265	90	122	125	0321369	0331369
EDLQ 150/1100-840 SM-EDS3	1xLED-M 7 W	1066	8	133	840	150	80	170	255	275	115	122	125	0321369//377	0331369//377
EDLQ 150/2000-830 SM	1xLED-M 15 W	2035	17	119	830	150	97	105	245	265	90	122	125	0321372	0331372
EDLQ 150/2000-830 SM-EDS3	1xLED-M 15 W	2035	17	119	830	150	97	170	255	275	115	122	125	0321372//377	0331372//377
EDLQ 150/2000-840 SM	1xLED-M 15 W	2035	17	119	840	150	97	105	245	265	90	122	125	0321371	0331371
EDLQ 150/2000-840 SM-EDS3	1xLED-M 15 W	2035	17	119	840	150	97	170	255	275	115	122	125	0321371//377	0331371//377



## Accessories

Model	Description	Prod. code
BET EDLQ 150	Concrete casting box for EDLQ 150 -in-situ concrete only-	0203034
<sup>2)</sup> DQ150-ASLP-K-D-W	PMMA panel, longitudinal prisms for asym. light distribution, white	0208875
<sup>1)</sup> DQ150-DPO-K-D-W	Panel PMMA, embossed opal micro-prisms, white decorative frame	0209009
<sup>1)</sup> DQ150-DPS-K-D-W	Panel PMMA, embossed micro-prisms, white decorative frame	0209012
DQ150-DR-B-W	Decor frame, white	0204425
<sup>1)</sup> DQ150-MPS-G-D-W	Decor. float glass disc, microprisms with frame white	0204888
<sup>1)</sup> DQ150-MPS-K-D-W	Panel PMMA, protruding micro-prisms, white decorative frame	0209018
DQ150-RM-G-SB-W	Decorative glass ESG, interior open, matt finish, white decorative frame	0209022
<sup>1)</sup> DQ150-SK-G-D-W	Transparent float glass disc with white decorative ring	0204435
<sup>1)</sup> DQ150-SM-G-D-W	Float glass disc, matt finish, with white decorative frame	0204430
<sup>1)</sup> DQ150-SM-K-D-W	Decorative panel PMMA, satin finish, white decorative frame	0204864
<sup>1)</sup> DQ150-SO-G-D-W	Opal float glass disc with white decorative ring	0204163
<sup>1)</sup> DQ150-SOM-K-D-W	Panel PMMA, opal satin finish, white decorative frame	0209015
DQ150-SPM-G-SB-W	Decorative safety glass, matt interior, white decor frame	0204420
UGEBD-UR	Changeover relay for EBD..., (not for HIT lamps)	0201069
ZVDO-EDLR	LED diffusor opal PC	0202478

<sup>1)</sup> IP 44 protection rating with this accessory when mounting in closed ceilings.

<sup>2)</sup> Recommended only with EDLQ ... SM

## Recessed downlighters EDLQ 195, square

**Design:** Square recessed downlighter, edge length 195 mm with LED module, comprising reflector housing and gear tray. Fitted with RIDI LED module, 1100, 2000 and 3000 lumen with passive heat sink. Protection rating on the room side IP 40, ceiling side IP 20.

**Reflector housing:** Rigid mounting frame in galvanised steel with toolless clamping mechanism for ceiling mounting. Mounting frame designed for toolless fitting of the decorative frame and accessories (to be ordered separately). Decorative frame designed for toolless mounting (accessory, to be ordered separately). Functional module in white polycarbonate for mounting the reflector using the bayonet fitting. Diffusor made of transparent polycarbonate with internally satinised polycarbonate to protect the LED, clips into the functional module (opal diffuser available on request).

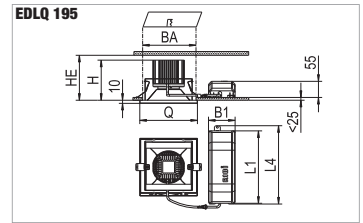
**Gear tray:** Gear tray plate made of galvanised steel, accommodates all electrical components, mains connector block, cable strain relief and connecting cable to the LED module. Clip-on heat resistant polycarbonate cover. Gear tray 90 mm high in emergency lighting version.

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- Dim. conv. DALI (-EDS3): Electronic DALI converter for LED, 220-240 Volts, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Emergency light element and maintenance-free NiCd battery for 3-hour maintained switching, with self test.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv. (-EDS3): Electronic converter for LED, 220- 240 Volts, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Emergency light element and maintenance-free NiCd battery for 3-hour maintained switching, with self test.

**Mounting:** Standard fixing clamps for clamping thicknesses from 0 to 25 mm. Other clamping thicknesses or fixing kits for special ceilings are available on request.



### Non-standard designs:

- Decor rings in RAL colours
- Emergency light versions
- Opal coloured diffuser
- High lumen packages
- Stepped switching



### EDLQ 195/... W

Edge length 195 mm. High-reflectance white reflector made of steel, powder coated similar to RAL9016.



EDLQ 195/1100 ... W

EDLQ 195/2000 ... W

EDLQ 195/3000 ... W

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Q	H	HE	Dimens. [mm]		B1	BA min	BA max	el. conv. Prod. code	dim. conv. DALI Prod. code
									L1	L4					
EDLQ 195/1100-830 W	1xLED-M 7 W	1092	8	136	830	195	75	105	245	265	90	167	170	0321342	0331342
EDLQ 195/1100-830 W-EDS3	1xLED-M 7 W	1092	8	136	830	195	75	125	255	275	115	167	170	0321342//377	0331342//377
EDLQ 195/1100-840 W	1xLED-M 7 W	1092	8	136	840	195	75	105	245	265	90	167	170	0321341	0331341
EDLQ 195/1100-840 W-EDS3	1xLED-M 7 W	1092	8	136	840	195	75	125	255	275	115	167	170	0321341//377	0331341//377
EDLQ 195/2000-830 W	1xLED-M 15 W	2085	17	122	830	195	77	105	245	265	90	167	170	0321344	0331344
EDLQ 195/2000-830 W-EDS3	1xLED-M 15 W	2085	17	122	830	195	77	125	255	275	115	167	170	0321344//377	0331344//377
EDLQ 195/2000-840 W	1xLED-M 15 W	2085	17	122	840	195	77	105	245	265	90	167	170	0321343	0331343
EDLQ 195/2000-840 W-EDS3	1xLED-M 15 W	2085	17	122	840	195	77	125	255	275	115	167	170	0321343//377	0331343//377
EDLQ 195/3000-830 W	1xLED-M 23 W	3277	27	121	830	195	100	105	245	265	90	167	170	0321346	0331346
EDLQ 195/3000-830 W-EDS3	1xLED-M 23 W	3277	27	121	830	195	100	125	255	275	115	167	170	0321346//377	0331346//377
EDLQ 195/3000-840 W	1xLED-M 23 W	3277	27	121	840	195	100	105	245	265	90	167	170	0321345	0331345
EDLQ 195/3000-840 W-EDS3	1xLED-M 23 W	3277	27	121	840	195	100	125	255	275	115	167	170	0321345//377	0331345//377



**EDLQ 195/... SM**

Edge length 195 mm. High-reflectance matt anodised super-purity aluminium with silver coating, wide-beam.



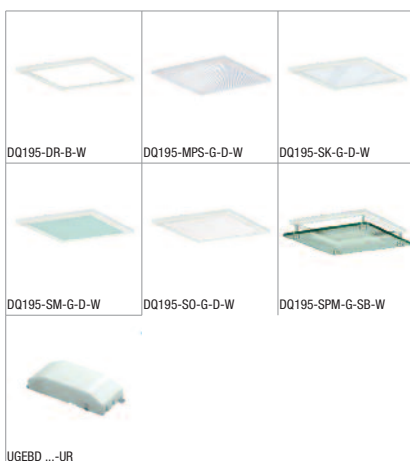
EDLQ 195/1100 ... SM

EDLQ 195/2000 ... SM

EDLQ 195/3000 ... SM

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Q	H	HE	Dimens. [mm]		B1	BA min	BA max	el. conv. Prod. code	dim. conv. DALI Prod. code
									L1	L4					
EDLQ 195/1100-830 SM	1xLED-M 7 W	1048	8	131	830	195	110	115	245	265	90	167	170	0321374	0331374
EDLQ 195/1100-830 SM-EDS3	1xLED-M 7 W	1048	8	131	830	195	110	125	255	275	115	167	170	0321374//377	0331374//377
EDLQ 195/1100-840 SM	1xLED-M 7 W	1048	8	131	840	195	110	115	245	265	90	167	170	0321373	0331373
EDLQ 195/1100-840 SM-EDS3	1xLED-M 7 W	1048	8	131	840	195	110	125	255	275	115	167	170	0321373//377	0331373//377
EDLQ 195/2000-830 SM	1xLED-M 15 W	2001	17	117	830	195	127	130	245	265	90	167	170	0321376	0331376
EDLQ 195/2000-830 SM-EDS3	1xLED-M 15 W	2001	17	117	830	195	127	130	255	275	115	167	170	0321376//377	0331376//377
EDLQ 195/2000-840 SM	1xLED-M 15 W	2001	17	117	840	195	127	130	245	265	90	167	170	0321375	0331375
EDLQ 195/2000-840 SM-EDS3	1xLED-M 15 W	2001	17	117	840	195	127	130	255	275	115	167	170	0321375//377	0331375//377
EDLQ 195/3000-830 SM	1xLED-M 23 W	3145	27	116	830	195	150	155	245	265	90	167	170	0321378	0331378
EDLQ 195/3000-830 SM-EDS3	1xLED-M 23 W	3145	27	116	830	195	150	155	255	275	115	167	170	0321378//377	0331378//377
EDLQ 195/3000-840 SM	1xLED-M 23 W	3145	27	116	840	195	150	155	245	265	90	167	170	0321377	0331377
EDLQ 195/3000-840 SM-EDS3	1xLED-M 23 W	3145	27	116	840	195	150	155	255	275	115	167	170	0321377//377	0331377//377

**Accessories**



Model	Description	Prod. code
BET EDLQ 195	Concrete casting box for EDLQ 195 -in-situ concrete only-	0203030
<sup>2)</sup> DQ195-ASLP-K-D-W	PMMA panel, longitudinal prisms for asym. light distribution, white	0208876
<sup>1)</sup> DQ195-DPO-K-D-W	Panel PMMA, embossed opal micro-prisms, white decorative frame	0209010
<sup>1)</sup> DQ195-DPS-K-D-W	Panel PMMA, embossed micro-prisms, white decorative frame	0209013
DQ195-DR-B-W	Decor frame, white	0204426
<sup>1)</sup> DQ195-MPS-G-D-W	Decor. float glass disc, microprisms with frame white	0204889
<sup>1)</sup> DQ195-MPS-K-D-W	Panel PMMA, protruding micro-prisms, white decorative frame	0209019
DQ195-RM-G-SB-W	Decorative glass ESG, interior open, matt finish, white decorative frame	0204176
<sup>1)</sup> DQ195-SK-G-D-W	Transparent float glass disc with white decorative ring	0204436
<sup>1)</sup> DQ195-SM-G-D-W	Float glass disc, matt finish, with white decorative frame	0204431
<sup>1)</sup> DQ195-SM-K-D-W	Decorative panel PMMA, satin finish, white decorative frame	0204865
<sup>1)</sup> DQ195-SO-G-D-W	Opal float glass disc with white decorative ring	0204164
<sup>1)</sup> DQ195-SOM-K-D-W	Panel PMMA, opal satin finish, white decorative frame	0209016
DQ195-SPM-G-SB-W	Decorative safety glass, matt interior, white decor frame	0204421
UGEBD-UR	Changeover relay for EBD..., (not for HIT lamps)	0201069
ZVDO-EDLR	LED diffusor opal PC	0202478

<sup>1)</sup> IP 44 protection rating with this accessory when mounting in closed ceilings.

<sup>2)</sup> Recommended only with EDLQ ... SM

## Recessed downlighters EDLQ 235, square

**Design:** Square recessed downlighter, edge length 235 mm with LED module, comprising reflector housing and gear tray. Fitted with RIDI LED module, 2000, 3000 and 4000 lumen with passive heat sink. Protection rating on the room side IP 40, ceiling side IP20

**Reflector housing:** Rigid mounting frame in galvanised steel with toolless clamping mechanism for ceiling mounting. Mounting frame designed for toolless fitting of the decorative frame and accessories (to be ordered separately). Decorative frame designed for toolless mounting (accessory, to be ordered separately). Functional module in white polycarbonate for mounting the reflector using the bayonet fitting. Diffusor made of transparent polycarbonate with internally satinised polycarbonate to protect the LED, clips into the functional module (opal diffuser available on request).

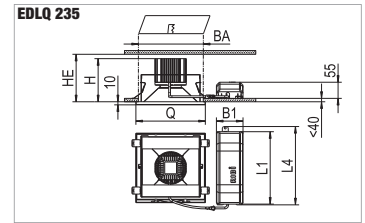
**Gear tray:** Gear tray plate made of galvanised steel, accommodates all electrical components, mains connector block, cable strain relief and connecting cable to the LED module. Clip-on heat resistant polycarbonate cover. Gear tray 90 mm high in emergency lighting version.

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- Dim. conv. DALI (-EDS3): Electronic DALI converter for LED, 220-240 Volts, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Emergency light element and maintenance-free NiCd battery for 3-hour maintained switching, with self test.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv. (-EDS3): Electronic converter for LED, 220- 240 Volts, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Emergency light element and maintenance-free NiCd battery for 3-hour maintained switching, with self test.

**Mounting:** Standard fixing clamps for clamping thicknesses from 0 to 40 mm. Other clamping thicknesses or fixing kits for special ceilings are available on request.



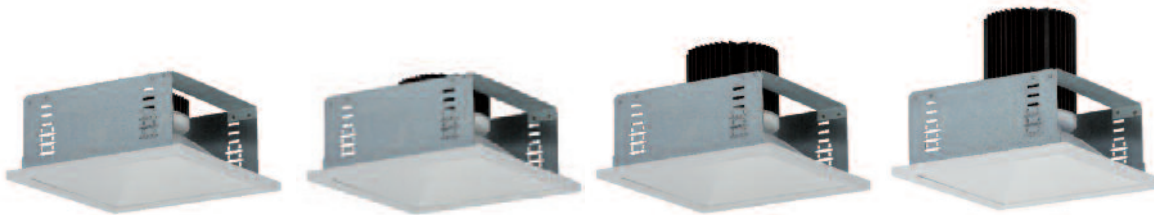
### Non-standard designs:

- Decor rings in RAL colours
- Emergency light versions
- Opal coloured diffuser
- High lumen packages
- Stepped switching



### EDLQ 235/... W

Edge length 235 mm. High-reflectance white reflector made of steel, powder coated similar to RAL9016.



EDLQ 235/2000 ... W

EDLQ 235/3000 ... W

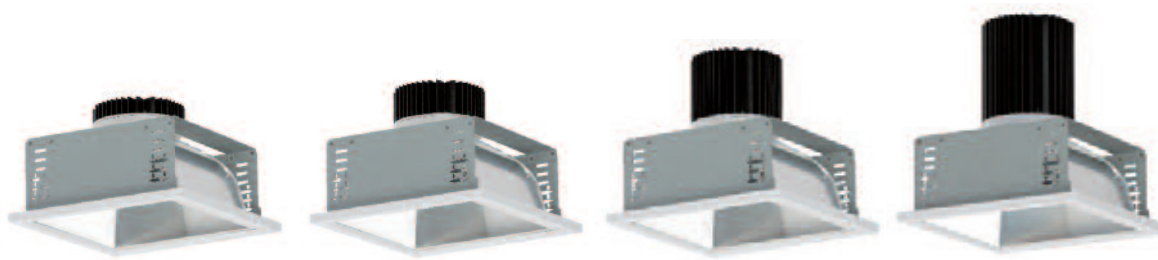
EDLQ 235/4000 ... W

EDLQ 235/5000 ... W

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]						el. conv. Prod. code	dim. conv. DALI Prod. code		
						Q	H	HE	L1	L4	B1			BA min	BA max
EDLQ 235/2000-830 W	1xLED-M 15 W	2077	17	122	830	235	92	100	245	265	90	207	210	0321348	0331348
EDLQ 235/2000-830 W-EDS3	1xLED-M 15 W	2077	17	122	830	235	92	135	255	275	115	207	210	0321348//377	0331348//377
EDLQ 235/2000-840 W	1xLED-M 15 W	2077	17	122	840	235	92	100	245	265	90	207	210	0321347	0331347
EDLQ 235/2000-840 W-EDS3	1xLED-M 15 W	2077	17	122	840	235	92	135	255	275	115	207	210	0321347//377	0331347//377
EDLQ 235/3000-830 W	1xLED-M 23 W	3264	27	120	830	235	110	115	245	265	90	207	210	0321350	0331350
EDLQ 235/3000-830 W-EDS3	1xLED-M 23 W	3264	27	120	830	235	110	135	255	275	115	207	210	0321350//377	0331350//377
EDLQ 235/3000-840 W	1xLED-M 23 W	3264	27	120	840	235	110	115	245	265	90	207	210	0321349	0331349
EDLQ 235/3000-840 W-EDS3	1xLED-M 23 W	3264	27	120	840	235	110	135	255	275	115	207	210	0321349//377	0331349//377
EDLQ 235/4000-830 W	1xLED-M 30 W	4203	35	120	830	235	130	135	245	265	90	207	210	0321352	0331352
EDLQ 235/4000-830 W-EDS3	1xLED-M 30 W	4203	35	120	830	235	130	135	255	275	115	207	210	0321352//377	0331352//377
EDLQ 235/4000-840 W	1xLED-M 30 W	4203	35	120	840	235	130	135	245	265	90	207	210	0321351	0331351
EDLQ 235/4000-840 W-EDS3	1xLED-M 30 W	4203	35	120	840	235	130	135	255	275	115	207	210	0321351//377	0331351//377
EDLQ 235/5000-830 W	1xLED-M 42 W	5336	47	113	830	235	170	175	255	275	115	207	210	0321468	0331468
EDLQ 235/5000-830 W-EDS3	1xLED-M 42 W	5336	47	113	830	235	170	175	255	275	115	207	210	0321468//377	0331468//377
EDLQ 235/5000-840 W	1xLED-M 42 W	5333	47	113	840	235	170	175	255	275	115	207	210	0321467	0331467
EDLQ 235/5000-840 W-EDS3	1xLED-M 42 W	5333	47	113	840	235	170	175	255	275	115	207	210	0321467//377	0331467//377

**EDLQ 235/... SM**

Edge length 235 mm. Reflector in high-reflectance matt anodised super-purity aluminium with silver coating, wide-beam.



EDLQ 235/2000 ... SM

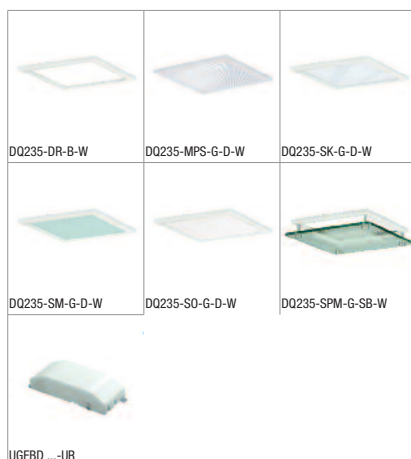
EDLQ 235/3000 ... SM

EDLQ 235/4000 ... SM

EDLQ 235/5000 ... SM

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Q	H	HE	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code	
									L1	L4	B1	BA min			BA max
EDLQ 235/2000-830 SM	1xLED-M 15 W	2022	17	118	830	235	137	140	245	265	90	207	210	0321380	0331380
EDLQ 235/2000-830 SM-EDS3	1xLED-M 15 W	2022	17	118	830	235	137	140	255	275	115	207	210	0321380//377	0331380//377
EDLQ 235/2000-840 SM	1xLED-M 15 W	2022	17	118	840	235	137	140	245	265	90	207	210	0321379	0331379
EDLQ 235/2000-840 SM-EDS3	1xLED-M 15 W	2022	17	118	840	235	137	140	255	275	115	207	210	0321379//377	0331379//377
EDLQ 235/3000-830 SM	1xLED-M 23 W	3178	27	117	830	235	160	165	245	265	90	207	210	0321382	0331382
EDLQ 235/3000-830 SM-EDS3	1xLED-M 23 W	3178	27	117	830	235	160	165	255	275	115	207	210	0321382//377	0331382//377
EDLQ 235/3000-840 SM	1xLED-M 23 W	3178	27	117	840	235	160	165	245	265	90	207	210	0321381	0331381
EDLQ 235/3000-840 SM-EDS3	1xLED-M 23 W	3178	27	117	840	235	160	165	255	275	115	207	210	0321381//377	0331381//377
EDLQ 235/4000-830 SM	1xLED-M 30 W	4093	35	116	830	235	180	185	255	275	115	207	210	0321384	0331384
EDLQ 235/4000-830 SM-EDS3	1xLED-M 30 W	4093	35	116	830	235	180	185	255	275	115	207	210	0321384//377	0331384//377
EDLQ 235/4000-840 SM	1xLED-M 30 W	4093	35	116	840	235	180	185	255	275	115	207	210	0321383	0331383
EDLQ 235/4000-840 SM-EDS3	1xLED-M 30 W	4093	35	116	840	235	180	185	255	275	115	207	210	0321383//377	0331383//377
EDLQ 235/5000-830 SM	1xLED-M 42 W	5199	47	110	830	235	220	225	255	275	115	207	210	0321466	0331466
EDLQ 235/5000-830 SM-EDS3	1xLED-M 42 W	5199	47	110	830	235	220	225	255	275	115	207	210	0321466//377	0331466//377
EDLQ 235/5000-840 SM	1xLED-M 42 W	5194	47	110	840	235	220	225	255	275	115	207	210	0321465	0331465
EDLQ 235/5000-840 SM-EDS3	1xLED-M 42 W	5194	47	110	840	235	220	225	255	275	115	207	210	0321465//377	0331465//377

**Accessories**



Model	Description	Prod. code
BET EDLQ 235	Concrete casting box for EDLQ 235 -in-situ concrete only-	0203031
<sup>2)</sup> DQ235-ASLP-K-D-W	PMMA panel, longitudinal prisms for asym. light distribution, white	0208877
<sup>1)</sup> DQ235-DPO-K-D-W	Panel PMMA, embossed opal micro-prisms, white decorative frame	0209011
<sup>1)</sup> DQ235-DPS-K-D-W	Panel PMMA, embossed micro-prisms, white decorative frame	0209014
DQ235-DR-B-W	Decor frame, white	0204427
<sup>1)</sup> DQ235-MPS-G-D-W	Decor. float glass disc, microprisms with frame white	0204890
<sup>1)</sup> DQ235-MPS-K-D-W	Panel PMMA, protruding micro-prisms, white decorative frame	0209020
DQ235-RM-G-SB-W	Decorative glass ESG, interior open, matt finish, white decorative frame	0204177
<sup>1)</sup> DQ235-SK-G-D-W	Transparent float glass disc with white decorative ring	0204437
<sup>1)</sup> DQ235-SM-G-D-W	Float glass disc, matt finish, with white decorative frame	0204432
<sup>1)</sup> DQ235-SM-K-D-W	Decorative panel PMMA, satin finish, white decorative frame	0204866
<sup>1)</sup> DQ235-SO-G-D-W	Opal float glass disc with white decorative ring	0204165
<sup>1)</sup> DQ235-SOM-K-D-W	Panel PMMA, opal satin finish, white decorative frame	0209017
DQ235-SPM-G-SB-W	Decorative safety glass, matt interior, white decor frame	0204422
UGEBD-UR	Changeover relay for EBD..., (not for HIT lamps)	0201069
ZVDO-EDLR	LED diffusor opal PC	0202478

<sup>1)</sup> IP 44 protection rating with this accessory when mounting in closed ceilings.

<sup>2)</sup> Recommended only with EDLQ ... SM

# EBDK-R-LED 150

## EBDK-R-LED 150

**Design:** Swivel-action downlighter, round, diameter 150 mm with LED module, comprising reflector housing with gimbal mounted reflector unit and gear tray. Fitted with COB LED module, 1500 lumen and passive heat sink.

**Reflector housing:** Stable mounting frame in steel, powder coated white (similar to RAL 9016) with toolless clamping mechanism for ceiling mounting. Ceiling thickness 5-20 mm. Reflector unit in die-cast metal with cast-on cooling fins, with 2 swivel axes. Trim locating ring with bayonet fixture. Cover in toughened safety glass. Reflectors with different light distribution angles: Spot and Flood.

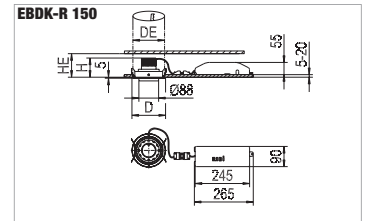
**Gear tray:** Gear tray plate made of galvanised steel, accommodates the electrical components, mains connector block, cable strain relief and connecting cable to the reflector housing. Clip-on heat resistant polycarbonate cover.

Colour rendering in index Ra  $\geq 80$ , colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Fixing clips for toolless mounting for clamping thicknesses from 5-20 mm are prefitted on the reflector housing as standard.



acc. to DIN EN 60598/VDE 0711



### EBDK-R-LED 150/... S

Diameter 150 mm. Reflector in pure anodised aluminium with beam angle S = Spot 19°.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
							H	HE	DE min	DE max		
EBDK-R-LED 150/1500-830 S	1xLED-M 11 W	1510	13	116	830	152	86	105	135	140	0321899	0331899
EBDK-R-LED 150/1500-840 S	1xLED-M 11 W	1510	13	116	840	152	86	105	135	140	0321897	0331897



### EBDK-R-LED 150/... F

Diameter 150 mm. Reflector in pure anodised aluminium with beam angle F = Flood 35°.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
							H	HE	DE min	DE max		
EBDK-R-LED 150/1500-830 F	1xLED-M 11 W	1489	13	114	830	152	86	105	135	140	0321900	0331900
EBDK-R-LED 150/1500-840 F	1xLED-M 11 W	1489	13	114	840	152	86	105	135	140	0321898	0331898

**EBDK-R-LED 195**

**Design:** Swivel-action downlighter, round, diameter 195 mm with LED module, comprising reflector housing with gimbal mounted reflector unit and gear tray. Fitted with COB LED module, 3000 lumen and passive heat sink.

**Reflector housing:** Stable mounting frame in steel, powder coated white (similar to RAL 9016) with toolless clamping mechanism for ceiling mounting. Ceiling thickness 5-20 mm. Reflector unit in die-cast metal with cast-on cooling fins, with 2 swivel axes. Trim locating ring with bayonet fixture. Cover in toughened safety glass. Reflectors with different light distribution angles: Spot and Flood.

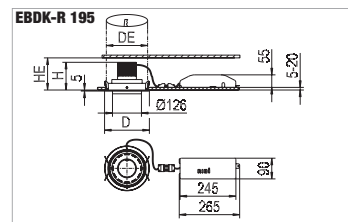
**Gear tray:** Gear tray plate made of galvanised steel, accommodates the electrical components, mains connector block, cable strain relief and connecting cable to the reflector housing. Clip-on heat resistant polycarbonate cover

Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Fixing clips for toolless mounting for clamping thicknesses from 5-20 mm are prefitted on the reflector housing as standard.



acc. to DIN EN 60598/VDE 0711

**EBDK-R-LED 195/... S**

Diameter 195 mm. Reflector in pure anodised aluminium with beam angle S = Spot 16°.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
							H	HE	DE min	DE max		
EBDK-R-LED 195/3000-830 S	1xLED-M 24 W	2318	27	85	830	195	121	130	183	185	0321904	0331904
EBDK-R-LED 195/3000-840 S	1xLED-M 24 W	2318	27	85	840	195	121	130	183	185	0321901	0331901

**EBDK-R-LED 195/... F**

Diameter 195 mm. Reflector in pure anodised aluminium with beam angle F = Flood 34°.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
							H	HE	DE min	DE max		
EBDK-R-LED 195/3000-830 F	1xLED-M 24 W	2271	27	84	830	195	121	130	183	185	0321906	0331906
EBDK-R-LED 195/3000-840 F	1xLED-M 24 W	2438	27	90	840	195	121	130	183	185	0321903	0331903

**Available information signs for DVHW ... trim**



DR...-HWNR1-K-D-W  
Prod. code 0202.../701



DR...-HWNR11-K-D-W  
Prod. code 0202.../711



DR...-HWNR12-K-D-W  
Prod. code 0202.../712



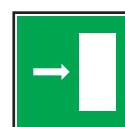
DR...-HWNR13-K-D-W  
Prod. code 0202.../713



DR...-HWNR17-K-D-W  
Prod. code 0202.../717



DR...-HWNR21-K-D-W  
Prod. code 0202.../721



DR...-HWNR22-K-D-W  
Prod. code 0202.../722



DR...-HWNR23-K-D-W  
Prod. code 0202.../723



DR...-HWNR24-K-D-W  
Prod. code 0202.../724



DR...-HWNR4-K-D-W  
Prod. code 0202.../704



DR...-HWNR5-K-D-W  
Prod. code 0202.../705



DR...-HWNR8-K-D-W  
Prod. code 0202.../708



DR...-HWNR9-K-D-W  
Prod. code 0202.../709



The comprehensive range of filters and honeycomb louvres makes the spotlight for every conceivable application.

All types of spotlight have a universal 3-circuit track adapter included so that they can be used on most universal lighting tracks.

Alternatively, the spotlights can be individually mounted on wall or ceiling adapters.

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 <b>PABLO</b> Spotlight	308
 Lighting tracks and accessories	310



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- For proprietary, elegant track system
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# LUPO-LED

## LUPO-LED

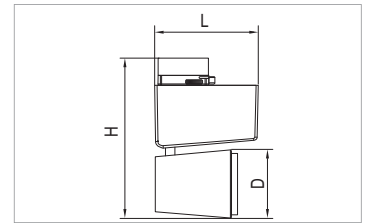
**Design:** Spotlight LED series in a modern design for lighting track mounting. Conical reflector housing dia. 101 in die cast aluminium with internal cooling fins for maintenance-free passive cooling. Reflector housing linked by a swivel and tilt fixture to a narrow gear housing made of die cast zinc with integrated converter. Surface powder coated in white (similar to RAL 9016), silver (SI, similar to RAL 9006) or black (FSW; similar to RAL 9005). The reflector / accessories are mounted without the need for tools using a plug-in system with spring clamps between the reflector housing and closing ring in die-cast aluminium. Specular reflector made of pure aluminium. Clear protective glass normally prefitted. Luminaire can be rotated 350° around lighting track adapter, the reflector housing can be rotated by an additional 350° with a 90° swivel action. Prefitted COB LED modules.

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), „bakery (BA)“, „meat (FL)“, other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and three phase trunking adapter with phase selection + DALI.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and three phase trunking adapter with phase selection.

**Mounting:** Mounting using a 3-phase adapter in the lighting track.



### Non-standard designs:

- Different light colours and colour temperatures
- Paintwork in optional RAL colours



### LUPO ... S

Specular reflector in pure aluminium, 15° spot reflector beam angle.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	D	H		
LUPO 2400 BA-S	1xLED-M 42 W	2550	42	60	BA	143	101	245	0326579	0336579
LUPO 2400 BA-S-FSW	1xLED-M 42 W	2550	42	60	BA	143	101	245	0326579AQ	0336579AQ
LUPO 2400 BA-S-SI	1xLED-M 42 W	2550	42	60	BA	143	101	245	0326579SI	0336579SI
LUPO 2400 FL-S	1xLED-M 42 W	2100	42	50	FL	143	101	245	0326578	0336578
LUPO 2400 FL-S-FSW	1xLED-M 42 W	2100	42	50	FL	143	101	245	0326578AQ	0336578AQ
LUPO 2400 FL-S-SI	1xLED-M 42 W	2100	42	50	FL	143	101	245	0326578SI	0336578SI
LUPO 3000-830 S	1xLED-M 29 W	2410	29	83	830	143	101	245	0326566	0336566
LUPO 3000-830 S-FSW	1xLED-M 29 W	2410	29	83	830	143	101	245	0326566AQ	0336566AQ
LUPO 3000-830 S-SI	1xLED-M 29 W	2410	29	83	830	143	101	245	0326566SI	0336566SI
LUPO 3000-840 S	1xLED-M 29 W	2590	29	89	840	143	101	245	0326567	0336567
LUPO 3000-840 S-FSW	1xLED-M 29 W	2590	29	89	840	143	101	245	0326567AQ	0336567AQ
LUPO 3000-840 S-SI	1xLED-M 29 W	2590	29	89	840	143	101	245	0326567SI	0336567SI
LUPO 3800-830 S	1xLED-M 36 W	2890	36	80	830	143	101	245	0326572	0336572
LUPO 3800-830 S-FSW	1xLED-M 36 W	2890	36	80	830	143	101	245	0326572AQ	0336572AQ
LUPO 3800-830 S-SI	1xLED-M 36 W	2890	36	80	830	143	101	245	0326572SI	0336572SI
LUPO 3800-840 S	1xLED-M 36 W	3200	36	88	840	143	101	245	0326573	0336573
LUPO 3800-840 S-FSW	1xLED-M 36 W	3200	36	88	840	143	101	245	0326573AQ	0336573AQ
LUPO 3800-840 S-SI	1xLED-M 36 W	3200	36	88	840	143	101	245	0326573SI	0336573SI



LUPO ... -SI

### LUPO ... M

Specular reflector in pure aluminium, 25° medium reflector beam angle.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	D	H		
LUPO 2400 BA-M	1xLED-M 42 W	2560	42	60	BA	143	101	245	0326581	0336581
LUPO 2400 BA-M-FSW	1xLED-M 42 W	2560	42	60	BA	143	101	245	0326581AQ	0336581AQ
LUPO 2400 BA-M-SI	1xLED-M 42 W	2560	42	60	BA	143	101	245	0326581SI	0336581SI
LUPO 2400 FL-M	1xLED-M 42 W	2160	42	51	FL	143	101	245	0326580	0336580
LUPO 2400 FL-M-FSW	1xLED-M 42 W	2160	42	51	FL	143	101	245	0326580AQ	0336580AQ
LUPO 2400 FL-M-SI	1xLED-M 42 W	2160	42	51	FL	143	101	245	0326580SI	0336580SI
LUPO 3000-830 M	1xLED-M 29 W	2300	29	79	830	143	101	245	0326568	0336568
LUPO 3000-830 M-FSW	1xLED-M 29 W	2300	29	79	830	143	101	245	0326568AQ	0336568AQ
LUPO 3000-830 M-SI	1xLED-M 29 W	2300	29	79	830	143	101	245	0326568SI	0336568SI
LUPO 3000-840 M	1xLED-M 29 W	2480	29	85	840	143	101	245	0326569	0336569
LUPO 3000-840 M-FSW	1xLED-M 29 W	2480	29	85	840	143	101	245	0326569AQ	0336569AQ
LUPO 3000-840 M-SI	1xLED-M 29 W	2480	29	85	840	143	101	245	0326569SI	0336569SI
LUPO 3800-830 M	1xLED-M 36 W	2890	36	80	830	143	101	245	0326574	0336574
LUPO 3800-830 M-FSW	1xLED-M 36 W	2890	36	80	830	143	101	245	0326574AQ	0336574AQ
LUPO 3800-830 M-SI	1xLED-M 36 W	2890	36	80	830	143	101	245	0326574SI	0336574SI
LUPO 3800-840 M	1xLED-M 36 W	3200	36	88	840	143	101	245	0326575	0336575
LUPO 3800-840 M-FSW	1xLED-M 36 W	3200	36	88	840	143	101	245	0326575AQ	0336575AQ
LUPO 3800-840 M-SI	1xLED-M 36 W	3200	36	88	840	143	101	245	0326575SI	0336575SI





LUPO ... -FSW

**LUPO ... F**

Specular reflector in pure aluminium, 35° flood reflector beam angle.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	D	H		
LUPU 2400 BA-F	1xLED-M 42 W	2550	42	60	BA	143	101	245	0326565	0336565
LUPU 2400 BA-F-FSW	1xLED-M 42 W	2550	42	60	BA	143	101	245	0326565AQ	0336565AQ
LUPU 2400 BA-F-SI	1xLED-M 42 W	2550	42	60	BA	143	101	245	0326565SI	0336565SI
LUPU 2400 FL-F	1xLED-M 42 W	2090	42	49	FL	143	101	245	0326564	0336564
LUPU 2400 FL-F-FSW	1xLED-M 42 W	2090	42	49	FL	143	101	245	0326564AQ	0336564AQ
LUPU 2400 FL-F-SI	1xLED-M 42 W	2090	42	49	FL	143	101	245	0326564SI	0336564SI
LUPU 3000-830 F	1xLED-M 29 W	2380	29	82	830	143	101	245	0326560	0336560
LUPU 3000-830 F-FSW	1xLED-M 29 W	2380	29	82	830	143	101	245	0326560AQ	0336560AQ
LUPU 3000-830 F-SI	1xLED-M 29 W	2380	29	82	830	143	101	245	0326560SI	0336560SI
LUPU 3000-840 F	1xLED-M 29 W	2560	29	88	840	143	101	245	0326561	0336561
LUPU 3000-840 F-FSW	1xLED-M 29 W	2560	29	88	840	143	101	245	0326561AQ	0336561AQ
LUPU 3000-840 F-SI	1xLED-M 29 W	2560	29	88	840	143	101	245	0326561SI	0336561SI
LUPU 3800-830 F	1xLED-M 36 W	2920	36	81	830	143	101	245	0326562	0336562
LUPU 3800-830 F-FSW	1xLED-M 36 W	2920	36	81	830	143	101	245	0326562AQ	0336562AQ
LUPU 3800-830 F-SI	1xLED-M 36 W	2920	36	81	830	143	101	245	0326562SI	0336562SI
LUPU 3800-840 F	1xLED-M 36 W	3240	36	90	840	143	101	245	0326563	0336563
LUPU 3800-840 F-FSW	1xLED-M 36 W	3240	36	90	840	143	101	245	0326563AQ	0336563AQ
LUPU 3800-840 F-SI	1xLED-M 36 W	3240	36	90	840	143	101	245	0326563SI	0336563SI



**LUPO ... SF**

Specular reflector in pure aluminium, 50° super-flood reflector beam angle.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	D	H		
LUPU 2400 BA-SF	1xLED-M 42 W	2420	42	57	BA	143	101	245	0326583	0336583
LUPU 2400 BA-SF-FSW	1xLED-M 42 W	2420	42	57	BA	143	101	245	0326583AQ	0336583AQ
LUPU 2400 BA-SF-SI	1xLED-M 42 W	2420	42	57	BA	143	101	245	0326583SI	0336583SI
LUPU 2400 FL-SF	1xLED-M 42 W	1990	42	47	FL	143	101	245	0326582	0336582
LUPU 2400 FL-SF-FSW	1xLED-M 42 W	1990	42	47	FL	143	101	245	0326582AQ	0336582AQ
LUPU 2400 FL-SF-SI	1xLED-M 42 W	1990	42	47	FL	143	101	245	0326582SI	0336582SI
LUPU 3000-830 SF	1xLED-M 29 W	2260	29	77	830	143	101	245	0326570	0336570
LUPU 3000-830 SF-FSW	1xLED-M 29 W	2260	29	77	830	143	101	245	0326570AQ	0336570AQ
LUPU 3000-830 SF-SI	1xLED-M 29 W	2260	29	77	830	143	101	245	0326570SI	0336570SI
LUPU 3000-840 SF	1xLED-M 29 W	2440	29	84	840	143	101	245	0326571	0336571
LUPU 3000-840 SF-FSW	1xLED-M 29 W	2440	29	84	840	143	101	245	0326571AQ	0336571AQ
LUPU 3000-840 SF-SI	1xLED-M 29 W	2440	29	84	840	143	101	245	0326571SI	0336571SI
LUPU 3800-830 SF	1xLED-M 36 W	2800	36	77	830	143	101	245	0326576	0336576
LUPU 3800-830 SF-FSW	1xLED-M 36 W	2800	36	77	830	143	101	245	0326576AQ	0336576AQ
LUPU 3800-830 SF-SI	1xLED-M 36 W	2800	36	77	830	143	101	245	0326576SI	0336576SI
LUPU 3800-840 SF	1xLED-M 36 W	3130	36	86	840	143	101	245	0326577	0336577
LUPU 3800-840 SF-FSW	1xLED-M 36 W	3130	36	86	840	143	101	245	0326577AQ	0336577AQ
LUPU 3800-840 SF-SI	1xLED-M 36 W	3130	36	86	840	143	101	245	0326577SI	0336577SI

**Accessories**

Model	Description	Prod. code
ZV-LUPO-F-RE	Spare flood reflector, beam angle 35°	0208913
ZV-LUPO-GS	Spare protective glass, safety glass, thermally toughened	0208941
ZV-LUPO-M-RE	Spare medium reflector, beam angle 25°	0208912
ZV-LUPO-OZ	Oval lens, thermally toughened grooved glass	0208961
ZV-LUPO-S-RE	Spare spot reflector, beam angle 15°	0208911
ZV-LUPO-SF-RE	Spare super-flood reflector, beam angle 50°	0208914
ZV-LUPO-WZ	Soft lens, thermally toughened satinised safety glass	0208962

## Spotlight series KARO-S

**Design:** LED spotlight for mounting on trunking. Luminaire housing, spotlight housing and retaining arm in die-cast aluminium, white (RAL 9016) or silver (similar to RAL9006) powder coated with fine structuring in silk matt finish. Steel spotlight front panel with 9 round laser-cut round recesses for the lenses, black powder coated. 3-phase lighting track adapter creating a rigid connection to the luminaire housing. Spotlight housing retaining arm permits 360° rotation and 110° swivel action. Lenses in PMMA, heat resistant, high degree of transmission. Prefitted RIDI LED module, colour tolerance < step MacAdam (initial), LED module luminous flux 2500 lm. Rated service life of LED components at ambient temperatures of -20°C to 25°C: L80B50 > 50,000 h.

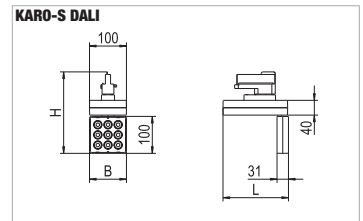
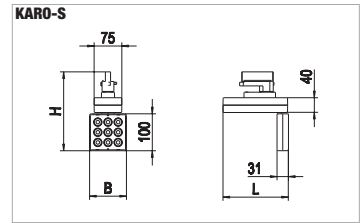
Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and three phase trunking adapter with phase selection + DALI.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and three phase trunking adapter with phase selection.

**Mounting:** Ceiling mounting on 3-phase lighting track. Not intended for wall mounting.

**Accessories:** Filter discs and decorative trims available.



**Non-standard designs:**

- Paintwork in a choice of RAL colours
- Different food filters (baked goods, fish, meat, vegetables, fruit)
- Different decorative trims (oval filters, softening filters)



**KARO-S ... S**  
Beam angle with spot lens (-S) 11°

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
KARO-S 2500-830 S	9xLED 2,7 W	2160	26	83	830	177	100	221	0321891	0331891
KARO-S 2500-830 S-SI	9xLED 2,7 W	2160	26	83	830	177	100	221	0321891SI	0331891SI
KARO-S 2500-840 S	9xLED 2,7 W	2160	26	83	840	177	100	221	0321884	0331884
KARO-S 2500-840 S-SI	9xLED 2,7 W	2160	26	83	840	177	100	221	0321884SI	0331884SI



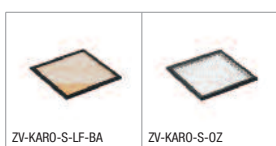
**KARO-S ... M**  
Beam angle with medium lens (-M) 28°

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
KARO-S 2500-830 M	9xLED 2,7 W	2120	26	81	830	177	100	221	0321892	0331892
KARO-S 2500-830 M-SI	9xLED 2,7 W	2120	26	81	830	177	100	221	0321892SI	0331892SI
KARO-S 2500-840 M	9xLED 2,7 W	2120	26	81	840	177	100	221	0321885	0331885
KARO-S 2500-840 M-SI	9xLED 2,7 W	2120	26	81	840	177	100	221	0321885SI	0331885SI



**KARO-S ... F**  
Beam angle with flood lens (-F) 46°

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
KARO-S 2500-830 F	9xLED 2,7 W	1790	26	68	830	177	100	221	0321893	0331893
KARO-S 2500-830 F-SI	9xLED 2,7 W	1790	26	68	830	177	100	221	0321893SI	0331893SI
KARO-S 2500-840 F	9xLED 2,7 W	1790	26	68	840	177	100	221	0321886	0331886
KARO-S 2500-840 F-SI	9xLED 2,7 W	1790	26	68	840	177	100	221	0321886SI	0331886SI



### Accessories

Model	Description	Prod. code
ZV-KARO-S-LF-BA	Food filter, KARO-S, baked goods	0206816
ZV-KARO-S-LF-FI	Food filter, KARO-S, fish	0206815
ZV-KARO-S-LF-FL	Food filter, KARO-S, meat	0206812
ZV-KARO-S-LF-GE	Food filter, KARO-S, vegetables	0206814
ZV-KARO-S-LF-OB	Food filter, KARO-S, fruit	0206813
ZV-KARO-S-OZ	Oval lens, thermally toughened grooved glass, KARO-S	0206818
ZV-KARO-S-WZ	Soft lens, safety glass satinised, KARO-S	0206817



# KARO-L

## Spotlight series KARO-L

**Design:** LED spotlight for mounting on trunking. Luminaire housing, spotlight housing and retaining arm in die-cast aluminium, white (RAL 9016) or silver (similar to RAL9006) powder coated. Steel spotlight front panel with 16 round laser-cut round recesses for the lenses, black powder coated. 3-phase lighting track adapter creating a rigid connection to the luminaire housing. Spotlight housing retaining arm permits 360° rotation and 110° swivel action. Lenses in PMMA, heat resistant, high degree of transmission. Prefitted RIDI LED module, colour tolerance < 3 step MacAdam (initial), luminous flux 2500 lm. Rated service life of LED components at ambient temperatures of -20°C to 25°C: L80B50 > 50,000 h.

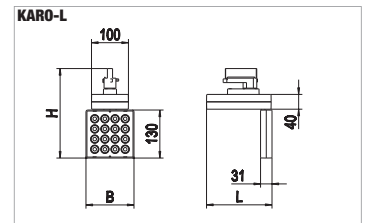
Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and three phase trunking adapter with phase selection + DALI.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and three phase trunking adapter with phase selection.

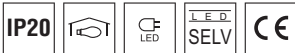
**Mounting:** Ceiling mounting on 3-phase lighting track. Not intended for wall mounting.

**Accessories:** Filter discs and decorative trims available.



### Non-standard designs:

- Paintwork in a choice of RAL colours
- Different food filters (baked goods, fish, meat, vegetables, fruit)
- Different decorative trims (oval filters, softening filters)



acc. to DIN EN 60598/VDE 0711



**KARO-L ... S**  
Beam angle with spot lens (-S) 11°

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
KARO-L 3500-830 S	16xLED 2 W	3276	37	88	830	177	130	249	0321894	0331894
KARO-L 3500-830 S-SI	16xLED 2 W	3276	37	88	830	177	130	249	0321894SI	0331894SI
KARO-L 3500-840 S	16xLED 2 W	3276	37	88	840	177	130	249	0321887	0331887
KARO-L 3500-840 S-SI	16xLED 2 W	3276	37	88	840	177	130	249	0321887SI	0331887SI



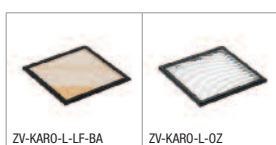
**KARO-L ... M**  
Beam angle with medium lens (-M) 28°

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
KARO-L 3500-830 M	16xLED 2 W	3300	37	89	830	177	130	249	0321895	0331895
KARO-L 3500-830 M-SI	16xLED 2 W	3300	37	89	830	177	130	249	0321895SI	0331895SI
KARO-L 3500-840 M	16xLED 2 W	3300	37	89	840	177	130	249	0321888	0331888
KARO-L 3500-840 M-SI	16xLED 2 W	3300	37	89	840	177	130	249	0321888SI	0331888SI



**KARO-L ... F**  
Beam angle with flood lens (-F) 46°

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
KARO-L 3500-830 F	16xLED 2 W	2786	37	75	830	177	130	249	0321896	0331896
KARO-L 3500-830 F-SI	16xLED 2 W	2786	37	75	830	177	130	249	0321896SI	0331896SI
KARO-L 3500-840 F	16xLED 2 W	2786	37	75	840	177	130	249	0321889	0331889
KARO-L 3500-840 F-SI	16xLED 2 W	2786	37	75	840	177	130	249	0321889SI	0331889SI



### Accessories

Model	Description	Prod. code
ZV-KARO-L-LF-BA	Food filter, KARO-L, baked goods	0206823
ZV-KARO-L-LF-FI	Food filter, KARO-L, fish	0206822
ZV-KARO-L-LF-FL	Food filter, KARO-L, meat	0206819
ZV-KARO-L-LF-GE	Food filter, KARO-L, vegetables	0206821
ZV-KARO-L-LF-OB	Food filter, KARO-L, fruit	0206820
ZV-KARO-L-OZ	Oval lens, thermally toughened grooved glass, KARO-L	0206825
ZV-KARO-L-WZ	Soft lens, safety glass satinised, KARO-L	0206824



## Spotlight series PABLO-LED

**Design:** LED spotlight series in a functional design. Spotlight housing in extruded sectional aluminium, reflector housing in die-cast aluminium with internal cooling fins, gear housing in die-cast aluminium with integrated converter. Surfaces powder coated in white (RAL 9016) or silver (SI similar to RAL9006). Toolless fixture of the reflector / accessories using a bayonet fixture in the cover ring made of die-cast aluminium. Turn and swivel articulated joint (painted in the colour of the spotlight) between the lighting track adapter and reflector housing for individual adjustment. Protection rating IP20. Reflector housing diameter 130 mm designed to serve as a heat sink for maintenance-free passive cooling. Specular reflector made of pure aluminium, toolless mounting by means of bayonet fixture. Pre-fitted COB-LED modules.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

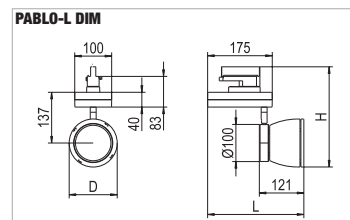
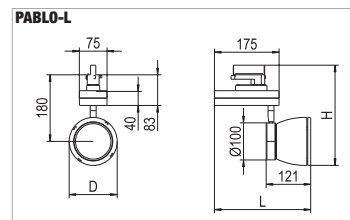
### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and three phase trunking adapter with phase selection + DALI.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and three phase trunking adapter with phase selection.

**Mounting:** Mounting using a 3-phase adapter in the lighting track.



acc. to DIN EN 60598/VDE 0711



### Non-standard designs:

- Different light colours and colour temperatures
- Paintwork in optional RAL colours



**PABLO-LED ... S**  
10° spot beam angle.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
PABLO-L LED 1580-840 S	1xLED-M 13 W	1134	15	75	840	261	130	245	1321840	1331840
PABLO-L LED 1580-840 S-SI	1xLED-M 13 W	1134	15	75	840	261	130	245	1321840SI	1331840SI
PABLO-L LED 2650-840 S	1xLED-M 18 W	1903	21	90	840	261	130	245	1321841	1331841
PABLO-L LED 2650-840 S-SI	1xLED-M 18 W	1903	21	90	840	261	130	245	1321841SI	1331841SI
PABLO-L LED 3550-840 S	1xLED-M 25 W	2549	29	87	840	261	130	245	1321843	1331843
PABLO-L LED 3550-840 S-SI	1xLED-M 25 W	2549	29	87	840	261	130	245	1321843SI	1331843SI



**PABLO-LED ... M**  
30° medium reflector beam angle.

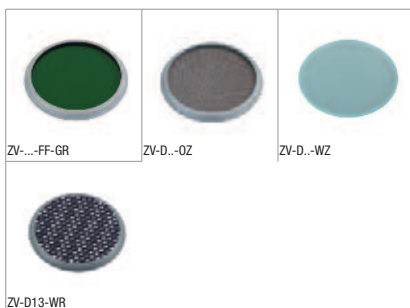
Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
PABLO-L LED 1580-840 M	1xLED-M 13 W	1315	15	87	840	261	130	245	1321855	1331855
PABLO-L LED 1580-840 M-SI	1xLED-M 13 W	1315	15	87	840	261	130	245	1321855SI	1331855SI
PABLO-L LED 2650-840 M	1xLED-M 18 W	2205	21	105	840	261	130	245	1321856	1331856
PABLO-L LED 2650-840 M-SI	1xLED-M 18 W	2205	21	105	840	261	130	245	1321856SI	1331856SI
PABLO-L LED 3550-840 M	1xLED-M 25 W	2954	29	101	840	261	130	245	1321857	1331857
PABLO-L LED 3550-840 M-SI	1xLED-M 25 W	2954	29	101	840	261	130	245	1321857SI	1331857SI



**PABLO-LED ... F**  
65° flood reflector beam angle.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
PABLO-L LED 2650-840 F	1xLED-M 18 W	1770	21	84	840	261	130	245	1321842	1331842
PABLO-L LED 2650-840 F-SI	1xLED-M 18 W	1770	21	84	840	261	130	245	1321842SI	1331842SI
PABLO-L LED 3550-840 F	1xLED-M 25 W	2371	29	81	840	261	130	245	1321844	1331844
PABLO-L LED 3550-840 F-SI	1xLED-M 25 W	2371	29	81	840	261	130	245	1321844SI	1331844SI

### Accessories



Model	Description	Prod. code
ZV-D13-FF-BL	Thermally toughened coloured glass, white holder, D13, blue	0204275
ZV-D13-FF-BL-SI	Therm. toughened coloured glass, silver holder D13, blue	0204275SI
ZV-D13-FF-GL	Thermally toughened coloured glass, white holder, D13, red	0204277
ZV-D13-FF-GL-SI	Therm. toughened coloured glass, silver holder D13, yellow	0204277SI
ZV-D13-FF-GR	Thermally toughened coloured glass, white holder, D13, green	0204274
ZV-D13-FF-GR-SI	Therm. toughened coloured glass, silver holder D13, green	0204274SI
ZV-D13-FF-RT	Thermally toughened coloured glass, white holder, D13, red	0204276
ZV-D13-FF-RT-SI	Therm. toughened coloured glass, silver holder D13, red	0204276SI
ZV-D13-IRF	IR-blocking filter, D13	0204306
ZV-D13-LF-BA	Food filter, D13, baked goods	0204818
ZV-D13-LF-FI	Food filter, D13, fish	0204817
ZV-D13-LF-FL	Food filter, D13, meat	0204814
ZV-D13-LF-GE	Food filter, D13, vegetables	0204816
ZV-D13-LF-OB	Food filter, D13, fruit	0204815
ZV-D13-OZ	Oval lens, therm. toughened grooved glass, white holder D13	0204302
ZV-D13-OZ-SI	Oval lens, therm. toughened grooved glass, silver holder D13	0204302SI
ZV-D13-UVF	UV-blocking filter, D13	0204304
ZV-D13-WR	Black honeycomb anti dazzle screen, white holder D13	0204280
ZV-D13-WR-SI	Black honeycomb anti dazzle screen, silver holder D13	0204280SI
ZV-D13-WZ	Soft lens, therm. toughened satin finish safety glass, D13	0204300









Accessories

Model	Description	Prod. code
ST-ABSP	Hanger for wire pendant	0206874
ST-ADL-DA-SW	DALI adapter transp. cable 1.5m 250V 9A kit black	0206907AB
ST-ADL-DA-W	DALI adapter transp. cable 1.5m 250V 9A kit white	0206907
ST-ADL-SW	Transparent cable adapter L=1500, 250V, 9A, construction kit black	0206867AB
ST-ADL-W	Transparent cable adapter L=1500, 250V, 9A, construction kit, white	0206867
ST-BKD	Fixing clip ceiling mounting, 20kg, galvanised	0206863
ST-DH-SW	Steel decorative hook, 5kg, black	0206865AB
ST-DH-W	Steel decorative hook, 5kg, white	0206865
ST-ED-SW	End cap, black	0206862AB
ST-ED-W	End cap, white	0206862
ST-ET-SLL-SW	Mains connector, earth conductor left, black	0206850AB
ST-ET-SLL-W	Mains connector, earth conductor left, white	0206850
ST-ET-SLR-SW	Mains connector, earth conductor right, black	0206851AB
ST-ET-SLR-W	Mains connector, earth conductor right, white	0206851
ST-ETM-SW	Mains connector, central, black	0206852AB
ST-ETM-W	Mains connector, central, white	0206852
ST-FK-SW	Flexible coupling, mains connector, black	0206861AB
ST-FK-W	Flexible coupling, mains connector, white	0206861
ST-FPR-SW	Groove filler profile for prot. rating IP40, black, 1 metre	0206866AB
ST-FPR-W	Groove filler profile for prot. rating IP40, white, 1 metre	0206866
ST-IP40-AD-ST-SI	IP40 plug for fixing opening, silver	0206876SI
ST-KV-SW	Connector for seamless assembly, black	0206853AB
ST-KV-W	Connector for seamless assembly, white	0206853
ST-LV-SLA-SW	L connector, outer earth cond., mains connector, black	0206854AB
ST-LV-SLA-W	L connector, outer earth cond., mains connector, white	0206854
ST-LV-SLI-SW	L connector, inner earth cond., mains connector, black	0206855AB
ST-LV-SLI-W	L connector, inner earth cond., mains connector, white	0206855
ST-STV	Joint connector + hanger for wire, 30kg, anodised aluminium	0206864
ST-TV-SLAL-SW	T connector, outer earth cond. left, mains connector, black	0206856AB
ST-TV-SLAL-W	T connector, outer earth cond. left, mains connector, white	0206856
ST-TV-SLAR-SW	T connector, outer earth cond. right, mains connector, black	0206857AB
ST-TV-SLAR-W	T connector, outer earth cond. right, mains connector, white	0206857
ST-TV-SLIL-SW	T connector, inner earth cond. left, mains connector, black	0206858AB
ST-TV-SLIL-W	T connector, inner earth cond. left, mains connector, white	0206858
ST-TV-SLIR-SW	T connector, inner earth cond. right, mains connector, black	0206859AB
ST-TV-SLIR-W	T connector, inner earth cond. right, mains connector, white	0206859
ST-XV-SW	X connector, mains connector, black	0206860AB
ST-XV-W	X connector, mains connector, white	0206860
ST-ZA	Plier to shorten copper conductor	0206868
ST-ZSP	Wire pendant, ceiling fixture, wire clamp, 1.5m, 1 pc.	0206873
<sup>2)</sup> STS-NA-APA-SW	Surface outlet, 1 circuit 250V,10A,5Kg, wall 2.5Nm, black	0204296AB
<sup>2)</sup> STS-NA-APA-W	Surface outlet, 1 circuit 250V,10A,5Kg, wall 2.5Nm, white	0204296
<sup>2)</sup> STS-NA-EPA-SW	Recessed outlet, 1 circuit 250V,10A,5Kg, wall 2.5Nm, black	0204297AB
<sup>2)</sup> STS-NA-EPA-W	Recessed outlet, 1 circuit 250V,10A,5Kg, wall 2.5Nm, white	0204297

<sup>2)</sup> STS-NA-... suitable for RIDI spotlights.



## Industrial luminaires

The industrial luminaire series was developed to address the photometric needs of industrial applications. Wherever continuous lighting systems cannot be used for optical reasons or due to mounting restrictions, and where a solution is required calling for individual luminaires, the industrial luminaire series provides the ideal answer.

### Industrial luminaires ROBUST und HERO

Fitted with highly efficient LED modules, HERO and ROBUST are the economical alternative to conventional lighting with 250 to 400 Watt high pressure discharge lamps. They flood halls and high-ceilinged rooms with an enormous luminous flux but consume substantially less energy.

The design of the compact HERO luminaire body made of individual aluminium profile elements leaves plenty of space for air circulation, guaranteeing optimum thermal management for high luminous flux levels. Optical control is performed by PMMA optics.

ROBUST is an equally compact power house with a sturdy housing in die-cast aluminium for high impact strength (IK09). Hermetically sealed with a structured glass panel, the ROBUST comes with a IP66 protection rating. Both the LED module and also the specular parabolic mirror louvres provide narrow or wide-beam light distribution and are protected from external influences.

### Industrial luminaires SHL-L

The luminaires of the SHL series are fitted with RIDI-LED lamp L-TUBE-B. These are closed luminaires fitted with one reflector per lamp. The SHL-L luminaire can be connected from the outside and consequently does not require opening when mounting on trunking system TRAS.

## Pendant display lights

With the pendant display light series, Ridi has created a design element which lends itself both in terms of styling and lighting technology to the creation of ideal lighting solutions, particularly in rooms or halls deviating from standard or customary room geometries. This type of room design, often involving polygonal floor plans and cross-sections, is commonly used for prestigious entrance areas, sales showrooms, exhibition halls or ticket offices frequented by the public. The materials and finishes used for these models make them ideally suited for wide-ranging applications and operating conditions.

### Pendant display lights HPL and HPL-BA

The LED variant of the familiar display lights for conventional lamps consistently follows the underlying design principles: The luminaire housing of the HPL has been reduced to the essential details such as accommodating the electrical converter and dissipation of produced heat, and with its transparent acrylic reflectors or aluminium reflectors blend ideally into any room geometry.

The alternative reflector housing versions can play an essential role in creating an overall impression of the room.

The electronic components in the HPL-BA luminaire series are located in a separate canopy. The luminaire housing with its minimal height fulfils the function of a heat sink.

### Pendant display lights RLS1-LED and RLS2-LED

The RLS1-LED and RLS2-LED show that there is no need to dispense with good design even in industrial applications.



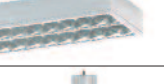



The RLS1-LED is a true power pack in a compact design with a height of 380 mm and a reflector diameter of 270 mm. The solid housing made of die-cast aluminium complies with luminaire protection rating IP65.

Its contemporary look is defined by generously dimensioned cooling fins which ensure safe, efficient heat dissipation.

The hard exterior shell packs up to 16,000 lumen. The LED-COB module is covered by a durable glass lens for narrow or wide beam light distribution.

The electrical components are integrated in the luminaire housing.

The larger dimensioned RLS2-LED with up to 28,000 lumen is available as another higher-powered variant.

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	<b>HERO</b> ball-resistant industrial luminaires, closed, with RIDI LED modules	316
	<b>SHL-L</b> Industrial luminaire, closed, with RIDI-LED lamp L-TUBE-B	318
	<b>HPL</b> Pendant display light with LED COB module	320
	<b>HPL-BA</b> Pendant display light with separate canopy, with LED COB module	322
	<b>RLS1-LED / RLS2-LED</b> Display lights, ball-resistant, with LED COB module	324

For additional display lights with a protection rating of **IP54**, refer to the chapter "Luminaires with higher protection rating", see page 350.



# RIDI LINIA<sup>®</sup> LED

Continuous lighting system for industrial applications see page 114



**ROBUST ...**

**Design:** Surface-mounted industrial luminaire with IP66 protection rating for ceiling, pendant or trunking mounting. Stable luminaire housing in die cast aluminium, grey, powder coated, colour similar to RAL7040. RIDI-LED modules formed as linear circuit boards. Panel made of toughened safety glass, structured, fixed to the housing with screws. Max. ambient temperature 45°C at 300mm ceiling clearance (only with ZBS-D-HT ROBUST (0217884) accessory – to be ordered separately). Safety class I. Impact resistance IK09.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- dim. conv. DALI: Electronic DALI converter for LED, 100-240 VAC, 50/60 Hz, 100-250 VDC and internal connecting terminal, 5 x 2.5 mm<sup>2</sup>. Mains cable 5 x 1.0 mm<sup>2</sup>, transparent with open end, length 2 m. Suitable for DC operation and usage in central battery systems.
- El. conv.: Electronic converter for LED, 100-240 VAC, 50/60 Hz, 100-250 VDC and internal connecting terminal. Mains cable 3 x 1.0 mm<sup>2</sup>, transparent with open end, length 2 m. Suitable for DC operation and usage in central battery systems.

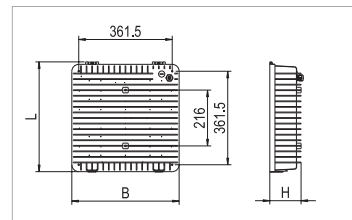
**Mounting:** Ceiling surface mounting using suitable accessories. Pendant mounting (chain or wire) using suitable fixing kits. Trunking mounting using suitable accessories.

**Note „ball resistant“:**

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.

**Note on “Food Hygiene Act“:**

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.



**ROBUST ...-B**

Parabolic mirror louvre, wide beam, made of high-reflectance specular super-purity aluminium.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
ROBUST-LED 15000/840-B	4xLED-M 27 W	15630	113	138	840	425	414	131	0650575	0660575
ROBUST-LED 23000/840-B	4xLED-M 40 W	23450	170	137	840	425	414	131	0650576	0660576

**ROBUST ...-T**

Parabolic mirror louvre, narrow beam, made of high-reflectance specular super-purity aluminium.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
ROBUST-LED 15000/840-T	4xLED-M 27 W	15800	113	139	840	425	414	131	0650577	0660577
ROBUST-LED 23000/840-T	4xLED-M 40 W	23700	170	139	840	425	414	131	0650578	0660578

**Accessories**



Model	Description	Prod. code
SLKG	S chain link, max.20kg, per unit	0200906
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
TRA-002	Luminaire hanger M5 x 20 swing hooks, galvanized steel	0200223
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888
VLSPS	Tension hook, 30mm adjustment path, max.20kg, 1 pc	0205889
VLSPSO-KH	Tension hook w. loop and carabiner adj. 50 mm, max. 20kg 1pc	0208347
ZBS-D ROBUST	Ceiling fixture for ROBUST, H=30MM	0217882
ZBS-D-HT ROBUST	Ceiling fixture for ROBUST, H=300MM, high temperature	0217884
ZBS-K ROBUST	Chain fixture, order chain or wire separately	0217883
ZBS-TRAS ROBUST	Luminaire fixture ROBUST to TRAS, set	0217886
ZBS-VLT ROBUST	Luminaire fixture ROBUST to VLT, set	0217885
ZSP-SK-3M	Wire pendant loop clamp, D=2.0mm, L=3.0m, 1pc, max. 45kg	0207880

## HERO ...

### HERO ...

**Design:** LED surface-mounted industrial luminaire with a protection rating of IP64 for ceiling surface or pendant mounting. Stable, compact luminaire housing comprising individual aluminium profiles, white, powder coated, colour similar to RAL 9016. Luminaire body structure made up of individual aluminium profiles with sturdy cooling fins. The resulting thermal air circulation guarantees optimum heat management for high luminous flux levels. Optical control using lens arrays fitted with mid-power LEDs for maximum luminaire efficiency.

LED fitted with nanocoating for increased resistance to corrosive gasses.

Lenses covered by a clear PMMA panel.

Safety class I. Impact resistance IK04.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), 6500 Kelvin (865), other colour temperatures possible on request.

#### Electrical versions:

- dim. conv. DALI: Electronic DALI converter for LED, 220-240V, 0/50-60Hz. Mains power cable 5x1.0mm<sup>2</sup> transparent with open end, 2m long, mounted to the luminaire by cable screw. Suited for direct current operation and the use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240V, 0/50-60Hz. Mains power cable 3x1.0mm<sup>2</sup> transparent with open end, 2m long, mounted to the luminaire by cable screw. Suited for direct current operation and the use in central battery systems.

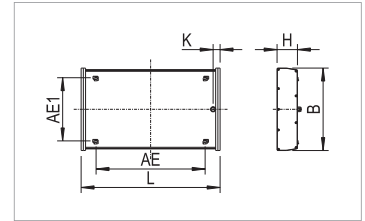
**Mounting:** Ceiling surface mounting using suitable accessories. Pendant mounting (chain, wire) using the relevant fixing kits. Rail mounting on trunking TRAS or VLTO using suitable accessories.

#### Note „ball resistant“:

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.



acc. to DIN EN 60598/VDE 0711



#### Non-standard designs:

- Emergency lighting versions (UR + Z)
- RAL colours



### HERO ...-S

Industrial luminaire made of extruded sectional aluminium with spot lens optics 30°

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	K		
HERO 1260-840 S-HT	4xLED-M 25 W	12580	115	109	840	337	372	110	32	0657469	0667469
HERO 1260-865 S-HT	4xLED-M 25 W	12580	115	109	865	337	372	110	32	0657470	0667470
HERO 1500-840 S	4xLED-M 30 W	14500	128	113	840	337	372	110	32	0657465	0667465
HERO 1500-865 S	4xLED-M 30 W	14500	128	113	865	337	372	110	32	0657466	0667466
HERO 2500-840 S-HT	8xLED-M 25 W	25160	230	109	840	627	372	110	32	0657471	0667471
HERO 2500-865 S-HT	8xLED-M 25 W	25160	230	109	865	627	372	110	32	0657472	0667472
HERO 3000-840 S	8xLED-M 30 W	29000	276	105	840	627	372	110	32	0657467	0667467
HERO 3000-865 S	8xLED-M 30 W	29000	276	105	865	627	372	110	32	0657468	0667468



### HERO ...-M

Industrial luminaire made of extruded sectional aluminium with medium lens optics 60°

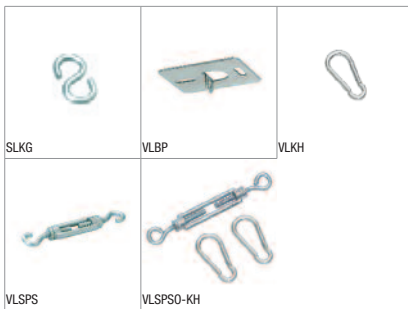
Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	K		
HERO 1260-840 M-HT	4xLED-M 25 W	12850	115	111	840	337	372	110	32	0657477	0667477
HERO 1260-865 M-HT	4xLED-M 25 W	12850	115	111	865	337	372	110	32	0657478	0667478
HERO 1500-840 M	4xLED-M 30 W	14600	128	114	840	337	372	110	32	0657473	0667473
HERO 1500-865 M	4xLED-M 30 W	14600	128	114	865	337	372	110	32	0657474	0667474
HERO 2500-840 M-HT	8xLED-M 25 W	25700	230	111	840	627	372	110	32	0657479	0667479
HERO 2500-865 M-HT	8xLED-M 25 W	25700	230	111	865	627	372	110	32	0657480	0667480
HERO 3000-840 M	8xLED-M 30 W	29200	276	105	840	627	372	110	32	0657475	0667475
HERO 3000-865 M	8xLED-M 30 W	29200	276	105	865	627	372	110	32	0657476	0667476

**HERO ...-SF**

Industrial luminaire made of extruded sectional aluminium with super-flood lens optics 110°



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	K		
HERO 1260-840 SF-HT	4xLED-M 25 W	12747	115	110	840	337	372	110	32	0657461	0667461
HERO 1260-865 SF-HT	4xLED-M 25 W	12747	115	110	865	337	372	110	32	0657462	0667462
HERO 1500-840 SF	4xLED-M 30 W	14300	128	111	840	337	372	110	32	0657457	0667457
HERO 1500-865 SF	4xLED-M 30 W	14300	128	111	865	337	372	110	32	0657458	0667458
HERO 2500-840 SF-HT	8xLED-M 25 W	25520	230	110	840	627	372	110	32	0657463	0667463
HERO 2500-865 SF-HT	8xLED-M 25 W	25520	230	110	865	627	372	110	32	0657464	0667464
HERO 3000-840 SF	8xLED-M 30 W	28600	276	103	840	627	372	110	32	0657459	0667459
HERO 3000-865 SF	8xLED-M 30 W	28600	276	103	865	627	372	110	32	0657460	0667460

**Accessories**

Model	Description	Prod. code
SLKG	S chain link, max.20kg, per unit	0200906
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888
VLSPS	Tension hook, 30mm adjustment path, max.20kg, 1 pc	0205889
VLSPSO-KH	Tension hook w. loop and carabiner adj. 50 mm, max. 20kg 1pc	0208347
ZBS-D HERO	Deckenbefestiger HERO	0218427
ZBS-TRAS HERO	Luminaire fixing HERO to TRAS	0217888
ZBS-VLT HERO	Luminaire fixing HERO to VLT	0217887
ZBS-W HERO	Wall mount HERO	0218426



## Industrial display light SHL-L

**Design:** Surface-mounted IP40 rated closed industrial luminaire for ceiling, pendant or rail mounting. Includes RIDI-LED lamp L-TUBE-BF. Rigid steel luminaire housing with scratch resistant white powder coat finish (colour similar to RAL 9016). Prefitted top reflector in high-reflectance matt super-purity anodised aluminium with silver coating. Narrow frame in extruded aluminium with panel of impact resistant UV stabilised PMMA. Frame held in the luminaire housing by spring clips and hinges downwards on both sides.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Lampholder system:** Aluminium cap profile fixture on the luminaire side for efficient heat transfer, spring steel fixing clip on the lamp side for positive locking connection with cap profile. Locking on the longitudinal side by means of a catch. Easy removal through blue plastic component. Plug and socket electrical connection.

### Electrical versions:

- dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and external connector block. Suitable for direct voltage operation and use in central battery systems
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and external connector block. Suitable for direct voltage operation and use in central battery systems

**Mounting:** Pendant and ceiling mounting of luminaires with suitable fixing kits. Time-saving click mounting on the TRAS trunking system without opening the luminaires. Pendant mounting of 1 and 2-lamp luminaires on one trunking rail, 3 and 4-lamp luminaires on two parallel trunking rails. Using accessory SHL-DB 0227922 the luminaires can be mounted directly on the ceiling or other fixing surface without trunking. For this, the luminaire must be opened. Continuous mounting using external connector SHL-LV, face end break-out D 20 for through wiring

### Note regarding wiring:

SHL 180, 280, 424: all lamps are wired to L1. (180 with 1 device, 280 with 2 devices)

SHL 380: central lamp wired to L1, outer lamps to L2. (3 devices)

SHL 480: both central lamps wired to L1, outer lamps to L2. (4 devices)

Other wiring arrangements are available on request.

### Note „ball resistant“:

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.

The ball resistant rating certifies the high level of robustness of these models, which is also a significant benefit in industrial luminaires.



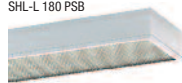
SHL-L 280 PSB



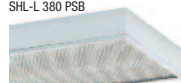
### SHL-L ... PSB

Prismatic panel with external prisms, symmetrical light distribution.

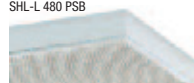
SHL-L 180 PSB



SHL-L 380 PSB



SHL-L 480 PSB



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code	
						L	B	H	A1	A2			A3
SHL-L 180/935-840 PSB	1xL-TUBE-B 58W	7200	67	107	840	1500	200	80	1350	-	150	0650610	0660610
SHL-L 280/1870-840 PSB	2xL-TUBE-B 58W	15390	134	114	840	1500	248	80	1350	-	150	0650611	0660611
SHL-L 380/2520-840 PSB	3xL-TUBE-B 51W	20740	176	117	840	1500	370	80	1350	224	150	0650612	0660612
SHL-L 480/3360-840 PSB	4xL-TUBE-B 51W	27653	235	117	840	1500	466	80	1350	216	150	0650613	0660613

SHL-L 280 SB



### SHL-L ... SB

Clear panel, symmetrical light distribution.

SHL-L 180 SB



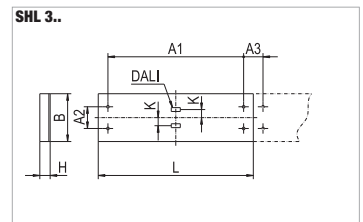
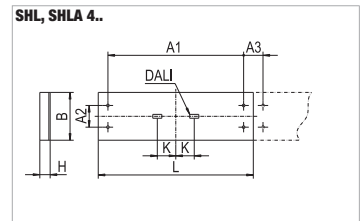
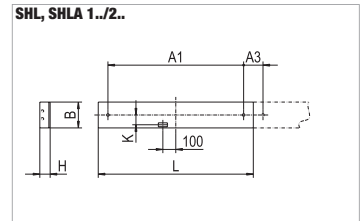
SHL-L 380 SB



SHL-L 480 SB



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code	
						L	B	H	A1	A2			A3
SHL-L 180/935-840 SB	1xL-TUBE-B 58W	8378	67	125	840	1500	200	80	1350	-	150	0650614	0660614
SHL-L 280/1870-840 SB	2xL-TUBE-B 58W	17279	134	128	840	1500	248	80	1350	-	150	0650615	0660615
SHL-L 380/2520-840 SB	3xL-TUBE-B 51W	22856	176	129	840	1500	370	80	1350	224	150	0650616	0660616
SHL-L 480/3360-840 SB	4xL-TUBE-B 51W	30475	235	129	840	1500	466	80	1350	216	150	0650617	0660617

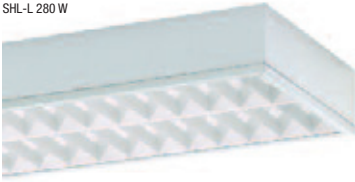


### Non-standard designs:

- Design with toughened safety glass panel
- Design with emergency light
- Paintwork finish in RAL colour



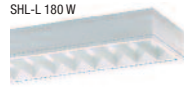
SHL-L 280 W



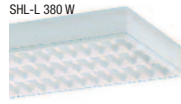
**SHL-L ... W**

Clear panel and white aluminium louvre, symmetrical light distribution.

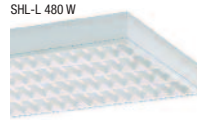
SHL-L 180 W



SHL-L 380 W



SHL-L 480 W



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]						el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	A1	A2	A3		
SHL-L 180/935-840 W	1xL-TUBE-B 58W	7200	67	107	840	1500	200	80	1350	-	150	0650618	0660618
SHL-L 280/1870-840 W	2xL-TUBE-B 58W	14399	134	107	840	1500	248	80	1350	-	150	0650619	0660619
SHL-L 380/2520-840 W	3xL-TUBE-B 51W	19404	176	110	840	1500	370	80	1350	224	150	0650620	0660620
SHL-L 480/3360-840 W	4xL-TUBE-B 51W	25872	235	110	840	1500	466	80	1350	216	150	0650621	0660621

SHL-L 380 SM



**SHL-L ... SM**

Clear panel and parabolic louvre in high-reflectance super-purity aluminium with silk matt anodised silver coating, symmetrical light distribution.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]						el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	A1	A2	A3		
SHL-L 180/935-840 SM	1xL-TUBE-B 58 W	8658	67	129	840	1500	200	80	1350	-	150	0650622	0660622
SHL-L 280/1870-840 SM	2xL-TUBE-B 58 W	16101	134	120	840	1500	248	80	1350	-	150	0650623	0660623
SHL-L 380/2520-840 SM	3xL-TUBE-B 51 W	21697	176	123	840	1500	370	80	1350	224	150	0650624	0660624
SHL-L 480/3360-840 SM	4xL-TUBE-B 51 W	28930	235	123	840	1500	466	80	1350	216	150	0650625	0660625

**Accessories**



Model	Description	Prod. code
SHL-DB	Ceiling fixing kit for SHL	0227922
SHL-LV 2..	Luminaire connector for SHL 180/280, 1pc	0207945
SHL-LV 3..	Luminaire connector for SHL 380/380-4, 1pc	0207946
SHL-LV 4..	Luminaire connector for SHL 480, 1 pc.	0208389
SLKG	S chain link, max.20kg, per unit	0200906
TRA 002 SHL	Luminaire hanger SHL, swing hook M5x20, galv. steel, 1 pc	0200228
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
TRA SHL	Cross bar for SHL 3.. + 4.., fixing distance 168,216,224mm	0200999
TRAS 3000	Galvanized steel trunking, L=3.0m, weight 3.9 kg	0207851
TRAS 4500	Galvanized steel trunking, L=4.5m, weight 5.9 kg	0207852
TRAS-A 1500	Galv. cover for TRAS, L=1.5m, ball resistant with TRAS-AB	0207853
TRAS-BSHL 1/2..	Luminaire fixing SHL 1/2-lamp incl. ZKA-SHL (1/luminaire)	0207869
TRAS-BSHL 4..	Lum. fixing SHL 4../4..-3 1/2-lamp incl. ZKA-SHL (1/lum.)	0207942
TRAS-BSK	Clamp for luminaires on TRAS, max. 8kg, 1/luminaire	0208436
TRAS-HA	Chain suspension hanger adjustable nut, 1 pc	0207867
TRAS-HD	Hanger with 6.0 dia. for ceiling mounting, 1 pc	0207868
TRAS-HP	Hanger with dia.13.5 for TRAS on tube pendant, 1 pc	0207872
TRAS-V	Trunking connector for TRAS, 1pc	0207860
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888
VLSPS	Tension hook, 30mm adjustment path, max.20kg, 1 pc	0205889
ZGH	Rubber suction device for removal of the protective glass	0203626
ZKA-SHL	Clamp cover for SHL, 1pc	0207980
ZRO	Frame opener	0204003

# HPL 300

## HPL 300

**Design:** Pendant LED display light with reflector, protection rating IP20. Luminaire housing in extruded sectional aluminium, one-piece, with vertical deep cooling fins for optimum convection cooling, surface powder coated white, similar to RAL9016. LED-COB module with 6,000 / 9,000 lumen. LED fixture mounted on solid aluminium plate for efficient heat dissipation to the cooling profile. Covered LED module with satinised real glass cap, held by spring steel clips. LED converter mounted luminaire housing. Reflector mounting using an adapter plate with key-shaped holes. Power cable transparent, 3-core, length 3.0 meters with cable strain relief and pre-mounting socket component. Plug component is supplied.

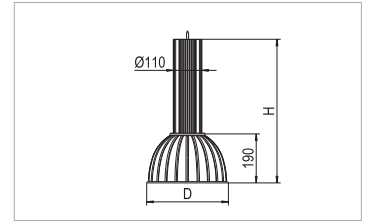
Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Power cable 5x0.75mm<sup>2</sup> transparent, length 3.0 metres with plug connector, inclusive of socket.
- el. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz. Power cable 3x0.75mm<sup>2</sup> transparent, length 3.0 metres with plug connector, inclusive of socket.

**Mounting:** Pendant mounting using pre-fitted automatic wire clamp with steel wire D=1.2 mm, steel wire length L=3.0 m. Ceiling fixture M13x1 with screw cap. All metal parts in specular nickel plated finish. Screw material for ceiling fixture provided on site.

**Note:** Connecting terminals for one cable, max. 1.5 mm<sup>2</sup>. For feed-through wiring from lamp to lamp, a conduit/junction box must be provided on site.



### Non-standard designs:

- Paintwork in RAL colours



acc. to DIN EN 60598/VDE 0711

### HPL 300/... PM

Reflector in transparent, UV-stabilised PMMA with light reflecting prisms for simple additional indirect lighting component.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]		el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H		
HPL 300/6000-830 PM	1xLED-M 45 W	4851	55	88	830	315	475	0321388	0331388
HPL 300/6000-840 PM	1xLED-M 45 W	4851	55	88	840	315	475	0321385	0331385
HPL 300/9000-830 PM	1xLED-M 61 W	7938	70	113	830	315	555	0321394	0331394
HPL 300/9000-840 PM	1xLED-M 61 W	7938	70	113	840	315	555	0321391	0331391

### HPL 300/... PC

Reflector in transparent, UV-stabilised impact-resistant Polycarbonate (PC) with light-reflecting prisms for simple additional indirect lighting component.



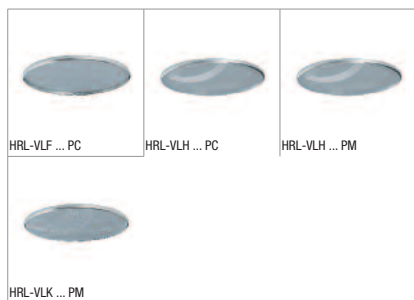
Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]		el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H		
HPL 300/6000-830 PC	1xLED-M 45 W	4851	55	88	830	315	475	0321389	0331389
HPL 300/6000-840 PC	1xLED-M 45 W	4851	55	88	840	315	475	0321386	0331386
HPL 300/9000-830 PC	1xLED-M 61 W	7938	70	113	830	315	555	0321395	0331395
HPL 300/9000-840 PC	1xLED-M 61 W	7938	70	113	840	315	555	0321392	0331392



**HPL 300/... SM**  
Reflector in pure aluminium, direct beam only.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]		el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H		
HPL 300/6000-830 SM	1xLED-M 45 W	4802	55	87	830	315	475	0321390	0331390
HPL 300/6000-840 SM	1xLED-M 45 W	4802	55	87	840	315	475	0321387	0331387
HPL 300/9000-830 SM	1xLED-M 61 W	7857	70	112	830	315	555	0321396	0331396
HPL 300/9000-840 SM	1xLED-M 61 W	7857	70	112	840	315	555	0321393	0331393

**Accessories**



Model	Description	Prod. code
HRL-VLF 300 PC	Visor attachment for 300 reflector, flat transparent PC	0202508
HRL-VLH 300 PC	Visor attachment for 300 reflector, dished transp.PC	0202510
HRL-VLH 300 PM	Visor attachment for 300 reflector, dished transp.PMMA	0202509
HRL-VLK 300 PM	Visor attachment for 300 reflector, conical prismatic PMMA	0202507



# HPL-BA 300

## HPL-BA 300 with separate canopy

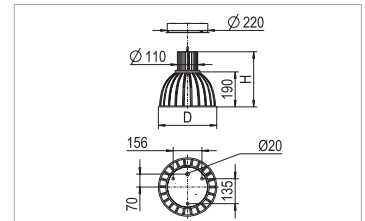
**Design:** Pendant LED display light with reflector and separate canopy, protection rating IP20. Luminaire housing in extruded sectional aluminium, one-piece, with vertical deep cooling fins for optimum convection cooling, surface powder coated white, similar to RAL9016. LED-COB module with 11,000 lumen. LED fixture mounted on solid aluminium plate for efficient heat dissipation to the cooling profile. Covered LED module with satinised real glass cap, held by spring steel clips. LED converter mounted in separate round canopy. Reflector mounting using an adapter plate with key-shaped holes. Power cable transparent, 2-core, length 3.0 meters with cable strain relief.

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>, mounted in a separate canopy. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>, mounted in a separate canopy. Suitable for direct voltage operation and use in central battery systems

**Mounting:** Canopy for 3-point or central ceiling mounting. Pendant mounting of the luminaire using pre-fitted automatic wire clamp D=1.2 mm, steel wire length L=3.0 m. Metal parts of the pendant wire in specular nickel-plated finish. Screw material for ceiling fixture provided on site.



### Non-standard designs:

- Paintwork in RAL colours



### HPL-BA 300/... PM

Reflector in transparent, UV-stabilised PMMA with light reflecting prisms for simple additional indirect lighting component.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm] D H	el. conv. Prod. code	dim. conv. DALI Prod. code
HPL-BA 300/11000-830 PM	1xLED-M 76 W	10516	87	120	830	315 300	0321424	0331424
HPL-BA 300/11000-840 PM	1xLED-M 76 W	10516	87	120	840	315 300	0321421	0331421

### HPL-BA 300/... PC

Reflector in transparent, UV-stabilised impact-resistant Polycarbonate (PC) with light-reflecting prisms for simple additional indirect lighting component.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm] D H	el. conv. Prod. code	dim. conv. DALI Prod. code
HPL-BA 300/11000-830 PC	1xLED-M 76 W	10516	87	120	830	315 300	0321425	0331425
HPL-BA 300/11000-840 PC	1xLED-M 76 W	10516	87	120	840	315 300	0321422	0331422

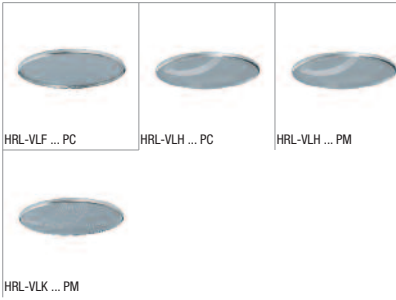
### HPL-BA 300/... SM

Reflector in pure aluminium, direct beam only.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm] D H	el. conv. Prod. code	dim. conv. DALI Prod. code
HPL-BA 300/11000-830 SM	1xLED-M 76 W	9625	87	110	830	315 300	0321426	0331426
HPL-BA 300/11000-840 SM	1xLED-M 76 W	9625	87	110	840	315 300	0321423	0331423

## Accessories



Model	Description	Prod. code
HRL-VLF 300 PC	Visor attachment for 300 reflector, flat transparent PC	0202508
HRL-VLH 300 PC	Visor attachment for 300 reflector, dished transp. PC	0202510
HRL-VLH 300 PM	Visor attachment for 300 reflector, dished transp. PMMA	0202509
HRL-VLK 300 PM	Visor attachment for 300 reflector, conical prismatic PMMA	0202507



# Industrial hibay luminaire RLS1-LED

## Industrial hibay luminaire RLS1-LED with LED modules, IP65

**Design:** Hibay luminaire, luminaire housing in die-cast aluminium, white powder coated, colour similar to RAL9016. Reflector housing in die-cast aluminium with modern, generously dimensioned cooling fins for optimum, efficient heat dissipation. Protection rating IP65. Foamed gasket between the housing halves and between the luminaire housing and reflector. LED COB module for high luminous flux levels of 5,000 to 16,000 lumen with efficient optical control in a minimum of space. Optical control with durable lens in real glass, screwed to the reflector housing using a retaining ring with sealing profile. LED converter mounted in the luminaire housing. Integrated holding bracket to accommodate the fixing accessories.

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

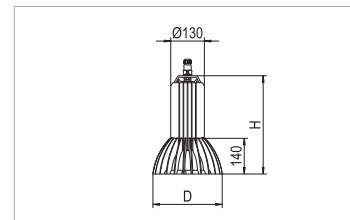
- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Electrical connection via an externally accessible connector to up to 3x2.5mm<sup>2</sup>. The connecting socket is included in the delivery.
- el. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Electrical connection via an externally accessible connector to up to 3x2.5mm<sup>2</sup>. The connecting socket is included in the delivery.

**Mounting:** Wire pendant, tube pendant, chain and ceiling mounting with the relevant accessories. Ball-resistant mounting only with suspension cable (Item no.: 0202425), ceiling fixture (Item no.: 0205887) and carabiner hooks (Item no.: 0205888).

### Note „ball resistant“:

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.

**Note:** For feed-through wiring from lamp to lamp, a conduit/junction box must be provided on site.



### RLS1-LED ... B

Lens in real glass with wide-beam light distribution.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]		el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
						D	H		
RLS1-LED xxWS-1000B830	1xLED-M 70 W	9740	80	121	830	270	380	0321471	0331471
RLS1-LED xxWS-1000B840	1xLED-M 70 W	9740	80	121	840	270	380	0321472	0331472
RLS1-LED xxWS-1600B830	1xLED-M 102 W	15930	115	138	830	270	380	0321473	0331473
RLS1-LED xxWS-1600B840	1xLED-M 102 W	15930	115	138	840	270	380	0321474	0331474
RLS1-LED xxWS-500B830	1xLED-M 40 W	5360	47	114	830	270	380	0321469	0331469
RLS1-LED xxWS-500B840	1xLED-M 40 W	5360	47	114	840	270	380	0321470	0331470



### RLS1-LED ... T

Lens in real glass with narrow-beam light distribution.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]		el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
						D	H		
RLS1-LED xxWS-1000T830	1xLED-M 70 W	9850	80	123	830	270	380	0321477	0331477
RLS1-LED xxWS-1000T840	1xLED-M 70 W	9850	80	123	840	270	380	0321478	0331478
RLS1-LED xxWS-1600T830	1xLED-M 102 W	15850	115	137	830	270	380	0321479	0331479
RLS1-LED xxWS-1600T840	1xLED-M 102 W	15850	115	137	840	270	380	0321480	0331480
RLS1-LED xxWS-500T830	1xLED-M 40 W	5400	47	114	830	270	380	0321475	0331475
RLS1-LED xxWS-500T840	1xLED-M 40 W	5400	47	114	840	270	380	0321476	0331476



## Accessories

Model	Description	Prod. code
RL-DB	Ceiling fixing for RL.1/RL.2	0202428
RL-HK	Chain fixing for RL.1/RL.2 , 1 pc	0202427
RL-SPO 1,5	Wire pendant for RL.1/RL.2 1.5m with loop, 1 pc	0202425
RL-SPO 3,0	Wire pendant for RL.1/RL.2 3.0m with loop, 1 pc	0202426
RLS1-LED-VSK PC	Panel attachment, clear PC, white fixing ring	0202437
SLKG	S chain link, max.20kg, per unit	0200906
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
UKNS	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0210958
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888



# Industrial hibay luminaire RLS2-LED

## Industrial hibay luminaire RLS2-LED with LED modules, IP65

**Design:** Hibay luminaire, luminaire housing in die-cast aluminium, white powder coated, colour similar to RAL9016. Reflector housing in die-cast aluminium with modern, generously dimensioned cooling fins for optimum, efficient heat dissipation. Protection rating IP65. Foamed gasket between the housing halves and between the luminaire housing and reflector. LED-COB module for high luminous flux levels and efficient optical control. Optical control with durable lens in real glass, screwed to the reflector housing using a retaining ring with sealing profile. LED converter mounted in the luminaire housing. Integrated holding bracket to accommodate the fixing accessories.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), 6500 Kelvin (865), other colour temperatures possible on request.

### Electrical versions:

- dim. conv. DALI: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Electrical connection via an externally accessible connector to up to 3x2.5mm<sup>2</sup>. The connecting socket is included in the delivery.
- el. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Electrical connection via an externally accessible connector to up to 3x2.5mm<sup>2</sup>. The connecting socket is included in the delivery.

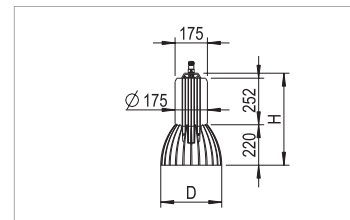
**Mounting:** Wire pendant, tube pendant, chain and ceiling mounting with the relevant accessories.

Ball resistant mounting only with chain (2x item no. 0200251), ceiling fixing (2x item no. 0205887) and carabiner hook (4x item no. 0205888)

### Note „ball resistant“:

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.

**Note:** For feed-through wiring from lamp to lamp, a conduit/junction box must be provided on site.



### RLS2-LED ... B

Lens in real glass with wide-beam light distribution.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]		el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
						D	H		
RLS2-LED xxWS-2200B840	1xLED-M 160 W	21300	170	125	840	330	500	0321483	0331483
RLS2-LED xxWS-2200B865	1xLED-M 160 W	22300	170	131	865	330	500	0321484	0331484
RLS2-LED xxWS-2800B840	1xLED-M 222 W	27340	237	115	840	330	500	0321481	0331481
RLS2-LED xxWS-2800B865	1xLED-M 222 W	28270	237	119	865	330	500	0321482	0331482





**RLS2-LED ... T**  
 Lens in real glass with narrow-beam light distribution.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm] D H	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
RLS2-LED xxWS-2200T840	1xLED-M 160 W	21300	170	125	840	330 500	0321487	0331487
RLS2-LED xxWS-2200T865	1xLED-M 160 W	22300	170	131	865	330 500	0321488	0331488
RLS2-LED xxWS-2800T840	1xLED-M 222 W	27340	237	115	840	330 500	0321485	0331485
RLS2-LED xxWS-2800T865	1xLED-M 222 W	28270	237	119	865	330 500	0321486	0331486

**Accessories**










Model	Description	Prod. code
RL-DB	Ceiling fixing for RL.1/RL.2	0202428
RL-HK	Chain fixing for RL.1/RL.2 , 1 pc	0202427
RL-SPO 1,5	Wire pendant for RL.1/RL.2 1.5m with loop, 1 pc	0202425
RL-SPO 3,0	Wire pendant for RL.1/RL.2 3.0m with loop, 1 pc	0202426
RLS2-LED-VSK PC	Panel attachment, clear PC, white fixing ring	0202438
SLKG	S chain link, max.20kg, per unit	0200906
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
UKNS	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0210958
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888





Chem. material		Polyester	Acrylic glas	Polycarbonate
			(abbr. PMMA)	(abbr. PC) Protect. tubes PC
Acetone		—	—	—
Aliphatic hydrocarbons		0	0	•
Alcohol up to 30%		•	•	•
Alcohol conc.		0	—	—
Ammoniac 25%		0	•	—
Accumulator acid		•	•	•
Aniline		—	—	—
Aromatic hydrocarbons		0	—	—
Ether		0	—	—
Ethylacetate (ester)		—	—	—
Benzene (cleaner's solvent)		•	•	•
Benzole		—	—	—
Beer		•	•	•
Blood		•	•	•
Bromine acid		—	—	—
Chloroform		—	—	—
Chlorphenol		—	—	—
Diesel oil, crude oil		•	•	0
Dioxin		•	—	—
Acetic acid	up to 5%	•	0	•
Acetic acid	up to 30 %	•	—	0
Glycerine		•	•	0
Glycol		•	•	•
Glystantine		•	•	•
Carbon dioxide		•	•	•
Carbon monoxide		•	•	•
Lime milk		•	•	0
Sodium chloride solution		•	•	•
Cetone		—	—	—
Lysol		—	—	—
Seawater		•	•	•
Methylene chloride		—	—	—
Methanol		—	—	—
Metal salts and their aqueous solutions		•	•	•
Caustic soda	2 %	0	•	—
Caustic soda	10 %	—	•	—
Petrol ether		•	•	0
Pyridine		—	—	—
Phenol		—	—	—
Nitric acid	up to 10 %	•	•	•
	10 up to 20 %	0	0	0
	from 20 %	—	—	—
Hydrochloric acid	up to 20 %	•	•	•
	from 20 %	•	•	0
Sulphuric acid	up to 50 %	•	•	•
	up to 70 %	•	0	0
	from 70 %	—	—	—
Sulphuric acid	up to 5 %	0	0	—
Hydrogen sulphide		•	•	•
Soapy solution		•	•	•
Soda		•	•	•
Synthetic detergent solution		•	•	0
Turpentine oil		•	0	0
Carbon tetrachloride		•	—	—
Water	up to 60°	•	•	•
Hydrogen peroxide	up to 40 %	—	—	0
	over 40 %	—	0	0
Xylene		—	—	—

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For additional diffuser luminaires with a protection rating of **IP54** and over, refer to the chapter "Luminaires with high protection rating", see page 350

RIDI offers an extensive range of diffuser luminaires encompassing the following ranges:

- Linear diffuser luminaires for RIDI TUBE lamps
- Mirror luminaires for RIDI TUBE lamps
- Round and square diffuser luminaires with RIDI LED modules

All luminaires are constructed of high-grade materials to meet the most stringent of conditions. Over 40 years experience in the manufacture of plastic diffusers provide the assurance of a long product life.

All diffusers are available in high-grade UV resistant PMMA.

Some are also available in UV-stabilised polycarbonate.

Depending on the luminaire type, the diffusers are manufactured in a single piece using injection moulding or extrusion techniques.

### Resistance table

The resistance table provides an overview of the chemical resistance of the most important materials used for luminaire construction.

The chemical resistance specification provided refers to an ambient temperature of appr. 25° C.

- = Resistant
- 0 = Conditionally resistant
- = Not resistant

# WL-R for RIDI-TUBE lamp

## Diffuser luminaire series WL-R

**Design:** Single diffuser luminaire. White powder coated steel housing, colour similar to RAL9016. Plastic end caps in luminaire colour white made of UV-stabilized polyamide. Plastic diffuser in UV-stabilised PMMA with internal longitudinal prism structure. Diffuser clips in spring steel. Lamp: RIDI-TUBE.

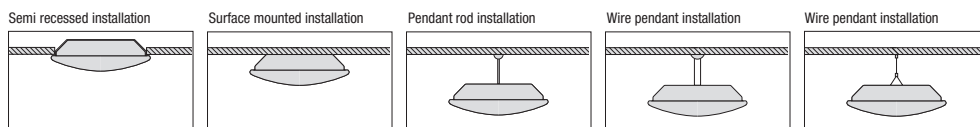
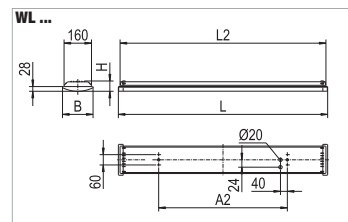
Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Direct ceiling or vertical wall mounting without the need for any additional accessories, or semi-recessed mounting using special fixing kit WL-HES. Cable or tube pendant mounting using suitable fixing kits. For the wire pendant mounting on ZSPTK, tube pendant and trunking mounting of one-lamp luminaires, compensating weights are required (see accessories).

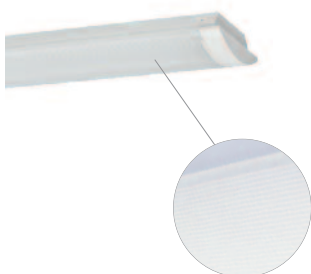


### WL-R ... 0

Opal diffuser O of opal acrylic (PMMA) with internal linear prisms, transmittance > 75%, UV-stabilised. Protection rating IP 40. For RIDI-TUBE lamp (order separately), recommended cover: clear.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]					LE*	BE*	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H	A2	L2				
WL-R1X115/30xx-0	1xR-TUBE 30 W	E, F	1220	178	60	750	1200	1205	165	0450002	0460002
WL-R1X145/35xx-0	1xR-TUBE 35 W	H, I	1520	178	60	1000	1500	1505	165	0450003	0460003
WL-R2X055/15xx-0	2xR-TUBE 15 W	B	620	178	60	500	600	605	165	0450036	0460036
WL-R2X115/30xx-0	2xR-TUBE 30 W	E, F	1220	178	60	750	1200	1205	165	0450030	0460030
WL-R2X145/35xx-0	2xR-TUBE 35 W	H, I	1520	178	60	1000	1500	1505	165	0450032	0460032

\* Ceiling cut-out



### WL-R ... P

Diffuser P of highly transparent acrylic (PMMA) with satin surface finish and internal linear prisms. Transmittance > 85%, UV-stabilised. Protection rating IP 40. For RIDI-TUBE lamp (order separately), recommended cover: matt

Model	Lamps max.	R-TUBE Category	Dimens. [mm]					LE*	BE*	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H	A2	L2				
WL-R1X115/30xx-P	1xR-TUBE 30 W	E, F	1220	178	60	750	1200	1205	165	0450004	0460004
WL-R1X145/35xx-P	1xR-TUBE 35 W	H, I	1520	178	60	1000	1500	1505	165	0450005	0460005
WL-R2X055/15xx-P	2xR-TUBE 15 W	B	620	178	60	500	600	605	165	0450037	0460037
WL-R2X115/30xx-P	2xR-TUBE 30 W	E, F	1220	178	60	750	1200	1205	165	0450031	0460031
WL-R2X145/35xx-P	2xR-TUBE 35 W	H, I	1520	178	60	1000	1500	1505	165	0450033	0460033

\* Ceiling cut-out



### WL-R ... 0 SET

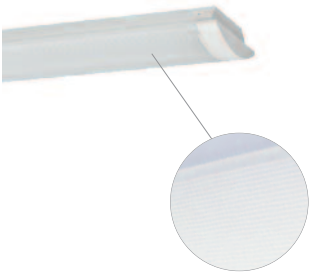
Opal diffuser O of opal acrylic (PMMA) with internal linear prisms, transmittance > 75%, UV-stabilised. Protection rating IP 40. Including RIDI-TUBE lamp.

Model	Lamps max.	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					LE*	BE*	el. conv. xx=ND Prod. code
						L	B	H	A2	L2			
WL-R1X115/30xx-0-SET	1xR-TUBE 30 W	3577	35	102	840	1220	178	60	750	1200	1205	165	0450002//676
WL-R1X145/35xx-0-SET	1xR-TUBE 35 W	3729	34	109	840	1520	178	60	1000	1500	1505	165	0450003//676
WL-R2X115/30xx-0-SET	2xR-TUBE 30 W	6796	70	97	840	1220	178	60	750	1200	1205	165	0450030//676
WL-R2X145/35xx-0-SET	2xR-TUBE 35 W	7085	68	104	840	1520	178	60	1000	1500	1505	165	0450032//676

\* Ceiling cut-out

**WL-R ... P SET**

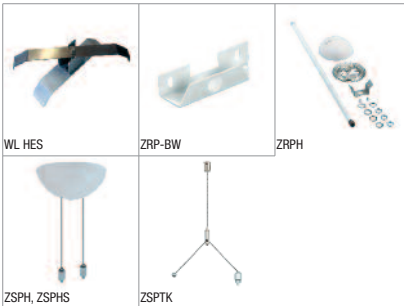
Diffuser P of highly transparent acrylic (PMMA) with satin surface finish and internal linear prisms. Transmittance > 85%, UV-stabilised. Protection rating IP 40. Including RIDI-TUBE lamp.



Model	Lamps max.	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	B	Dimens. [mm]				LE*	BE*	el. conv. xx=ND Prod. code
								H	A2	L2				
WL-R1X115/30xx-P-SET	1xR-TUBE 30 W	3494	35	99	840	1220	178	60	750	1200	1205	165	0450004//676	
WL-R1X145/35xx-P-SET	1xR-TUBE 35 W	3573	34	105	840	1520	178	60	1000	1500	1505	165	0450005//676	
WL-R2X115/30xx-P-SET	2xR-TUBE 30 W	6794	70	97	840	1220	178	60	750	1200	1205	165	0450031//676	
WL-R2X145/35xx-P-SET	2xR-TUBE 35 W	6948	68	102	840	1520	178	60	1000	1500	1505	165	0450033//676	

\* Ceiling cut-out

**Accessories**



Model	Description	Prod. code
AG-WL 0,3KG	Counterweight WL 1 MV-EVG, DIM, DALI with ZSPTK, ZRPH	0202436
WL-HES	Semi recessed mounting kit for WL	0202527
WWL .14/24 O	Replacement diffuser for WL 214/24, opal PMMA	0202627
WWL .14/24 P	Replacement diffuser for WL 214/24, prismatic PMMA	0202631
WWL .21/39 O	Replacement diffuser for WL 221/39, opal PMMA	0202628
WWL .21/39 P	Replacement diffuser for WL 221/39, prismatic PMMA	0202632
WWL .28/54 O	Replacement diffuser for WL 228/54, opal PMMA	0202629
WWL .28/54 P	Replacement diffuser for WL 228/54, prismatic PMMA	0202633
WWL .35/49/80 O	Replacement diffuser for WL 235/49, opal PMMA	0202630
WWL .35/49/80 P	Replacement diffuser for WL 235/49, prismatic PMMA	0202634
ZRP-BW	Bracket for tube pendant mounting with ZRP..., white	0205022
ZRP-BW-SI	Bracket for tube pendant mounting with ZRP..., silver	0205022SI
ZRPH 050	Tube pendant, domed canopy, white, L=0.5m, 1 pc	0205020
ZRPH 100	Tube pendant, domed canopy, white, L=1.0 m, 1 pc	0205021
ZSPH	Wire pendant, domed canopy, white, wire clamp 1.5m, 1 pc	0201619
ZSPH-SI	Wire pendant, domed canopy, silver, wire clamp, 1.5m, 1pc	0201619SI
ZSPHS	Wire pendant, domed canopy, white, man. clamp 1.5m, 1 pc	0205027
ZSPHS-SI	Wire pendant, domed canopy, silver, wire clamp man., 1.5m, 1pc	0205027SI
ZSPTK	Y' wire pendant w. ceiling fixture, ball, 1.5m, 1 pc	0203509



# LFN-R for RIDI-TUBE lamp

## Diffuser luminaire series LFN-R

**Design:** Single luminaire for ceiling or wall mounting. Luminaire housing in torsionally rigid sectional steel, white synthetic resin coated, colour similar to RAL9016. Mounted plastic end caps in UV-stabilised white PC. All-round seamless foamed 2-component seal between diffuser and luminaire housing ensures compliance with protection rating. Round seal to close the fixing hole between the fixing surface and luminaire housing. Fixing lugs 9 mm high guide the mains cables between the luminaire and fixing surface. Toolless diffuser fixture using integrated metal twist clips with plastic seal in the luminaire housing. Silicone-free design.

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

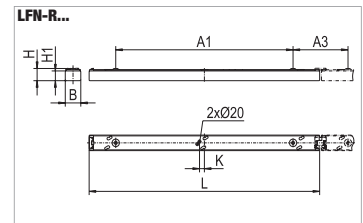
- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Direct ceiling mounting without the need for additional accessories. Continuous mounting with fixed luminaire spacing using accessory LFN-LVDM.

Mounting on trunking possible using suitable luminaire fixtures.

**Emergency lighting:** For connection to a central supply, the emergency lighting retrofit kit, product code no. 0200614, E14 lamp is available.

With LF... KS/KSS on request and supplied factory prefitted.



### Non-standard designs:

- Versions with integral Emergency



acc. to DIN EN 60598/VDE 0711



### LFN-R ... 0

Blown plastic diffuser in opal, UV-stabilised PMMA.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]						K	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H	H1	A1	A3			
LFN-R1X055/15xx-0	1xR-TUBE 15 W	B	650	105	85	66	500	162	156	0550015	0560015
LFN-R1X120/25xx-0	1xR-TUBE 25 W	G	1260	105	85	66	900	372	33	0550020	0560020
LFN-R1X150/40xx-0	1xR-TUBE 40 W	J	1560	105	85	66	1200	372	33	0550025	0560025
LFN-R2X055/15xx-0	2xR-TUBE 15 W	B	660	105	85	66	500	162	156	0550030	0560030
LFN-R2X120/25xx-0	2xR-TUBE 25 W	G	1260	105	85	66	900	372	36	0550034	0560034
LFN-R2X150/40xx-0	2xR-TUBE 40 W	J	1560	105	85	66	600	372	66	0550039	0560039



### LFN-R ... PR

Blown plastic diffuser with embossed prisms in highly transparent UV-stabilised PMMA.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]						K	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H	H1	A1	A3			
LFN-R1X055/15xx-PR	1xR-TUBE 15 W	B	650	105	85	66	500	162	156	0550018	0560018
LFN-R1X120/25xx-PR	1xR-TUBE 25 W	G	1260	105	85	66	900	372	33	0550023	0560023
LFN-R1X150/40xx-PR	1xR-TUBE 40 W	J	1560	105	85	66	1200	372	33	0550028	0560028
LFN-R2X055/15xx-PR	2xR-TUBE 15 W	B	660	105	85	66	500	162	156	0550032	0560032
LFN-R2X120/25xx-PR	2xR-TUBE 25 W	G	1260	105	85	66	900	372	36	0550037	0560037
LFN-R2X150/40xx-PR	2xR-TUBE 40 W	J	1560	105	85	66	600	372	66	0550042	0560042



### LFN-R ... OT

Injection moulded plastic diffuser in opal UV-stabilised PMMA. Trapezoidally bevelled diffuser edges.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]						K	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H	H1	A1	A3			
LFN-R1X055/15xx-OT	1xR-TUBE 15 W	B	660	105	85	66	500	162	156	0550016	0560016
LFN-R1X120/25xx-OT	1xR-TUBE 25 W	G	1270	105	85	66	900	372	33	0550021	0560021
LFN-R1X150/40xx-OT	1xR-TUBE 40 W	J	1570	105	85	66	1200	372	33	0550026	0560026
LFN-R2X055/15xx-OT	2xR-TUBE 15 W	B	665	105	85	66	500	162	156	0550031	0560031
LFN-R2X120/25xx-OT	2xR-TUBE 25 W	G	1270	105	85	66	900	372	36	0550035	0560035
LFN-R2X150/40xx-OT	2xR-TUBE 40 W	J	1570	105	85	66	600	372	66	0550040	0560040



### LFN-R ... PRT

Blown plastic diffuser with embossed prisms in highly transparent UV-stabilised PMMA. Trapezoidally bevelled diffuser edges.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]						K	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H	H1	A1	A3			
LFN-R1X055/15xx-PRT	1xR-TUBE 15 W	B	660	105	85	66	500	162	156	0550019	0560019
LFN-R1X120/25xx-PRT	1xR-TUBE 25 W	G	1270	105	85	66	900	372	33	0550024	0560024
LFN-R1X150/40xx-PRT	1xR-TUBE 40 W	J	1570	105	85	66	1200	372	33	0550029	0560029
LFN-R2X055/15xx-PRT	2xR-TUBE 15 W	B	665	105	85	66	500	162	156	0550033	0560033
LFN-R2X120/25xx-PRT	2xR-TUBE 25 W	G	1270	105	85	66	900	372	36	0550038	0560038
LFN-R2X150/40xx-PRT	2xR-TUBE 40 W	J	1570	105	85	66	600	372	66	0550043	0560043



## Accessories

Model	Description	Prod. code
LFN-LVDM	Luminaire connector, plastic PC, spacing 20mm, for t.w.	0201815
NL-E14-WL	E14 emergency light for diffuser lum., white lampholder	0200614
TRA-002	Luminaire hanger M5 x 20 swing hooks, galvanized steel	0200223
VLTB	For luminaire fixing at VLT-... screw M5, max. 20 kg, 1 pc	1205260
W-LF 118 O	Repl. diffuser for LF/LFN/PLF 118 opal PMMA	0200051
W-LF 118 OT	Repl. diffuser for LF/LFN/PLF 118 trapezoidal opal PMMA	0203226
W-LF 118 PR	Repl. diffuser for LF/LFN/PLF 118 prismatic PMMA	0200272
W-LF 118 PRT	Repl. diffuser for LF/LFN/PLF 118 trapezoidal prismatic PMMA	0203232
W-LF 136 O	Repl. diffuser for LF/LFN/PLF 136/154 opal PMMA	0200052
W-LF 136 OT	Repl. diffuser for LF/LFN/PLF 136/154 trapezoidal opal PMMA	0203227
W-LF 136 PR	Repl. diffuser for LF/LFN/PLF 136/154 prismatic PMMA	0200057
W-LF 136 PRT	Repl. diffuser for LF/LFN/PLF 136/154 trapezoidal prismatic PMMA	0203233
W-LF 158 O	Repl. diffuser for LF/LFN/PLF 158/149 opal PMMA	0200053
W-LF 158 OT	Repl. diffuser for LF/LFN/PLF 158/149 trapezoidal opal PMMA	0203228
W-LF 158 PR	Repl. diffuser for LF/LFN/PLF 158/149 prismatic PMMA	0200058
W-LF 158 PRT	Repl. diffuser for LF/LFN/PLF 158/149 trapezoidal prismatic PMMA	0203234
W-LF 218 O	Repl. diffuser for LF/LFN/PLF 218 opal PMMA	0200054
W-LF 218 OT	Repl. diffuser for LF/LFN/PLF 218 trapezoidal opal PMMA	0203229
W-LF 218 PR	Repl. diffuser for LF/LFN/PLF 218 prismatic PMMA	0200059
W-LF 218 PRT	Repl. diffuser for LF/LFN/PLF 218 trapezoidal prismatic PMMA	0203235
W-LF 236 O	Repl. diffuser for LF/LFN/PLF 236/254 opal PMMA	0200055
W-LF 236 OT	Repl. diffuser for LF/LFN/PLF 236/254 trapezoidal opal PMMA	0203230
W-LF 236 PR	Repl. diffuser for LF/LFN/PLF 236/254 prismatic PMMA	0200060
W-LF 236 PRT	Repl. diffuser for LF/LFN/PLF 236/254 trapezoidal prismatic PMMA	0203236
W-LF 258 O	Repl. diffuser for LF/LFN/PLF 258/249 opal PMMA	0200056
W-LF 258 OT	Repl. diffuser for LF/LFN/PLF 258/249 trapezoidal opal PMMA	0203231
W-LF 258 PR	Repl. diffuser for LF/LFN/PLF 258/249 prismatic PMMA	0200061
W-LF 258 PRT	Repl. diffuser for LF/LFN/PLF 258/249 trapezoidal prismatic PMMA	0203237
ZRP 050	Tube pendant 500mm w. canopy, M13x1, white, 1set = 1 pc	0200246
ZRP 100	Tube pendant 1000mm w. canopy, M13x1, white, 1set = 1 pc	0200247
ZUSPS	Wire pendant for hostile env. luminaires, 1.5m, 1 set = 1 pc	0201257



# LFN-T16-R for RIDI-TUBE lamp

## Diffuser luminaire series LFN-T16-R

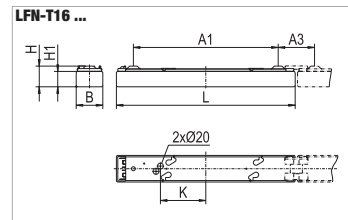
**Design:** Single luminaire for ceiling or wall mounting. Luminaire housing in torsionally rigid sectional steel, white synthetic resin coated, colour similar to RAL9016. Mounted plastic end caps in UV-stabilised white PC. All-round seamless foamed 2-component gasket between diffuser and luminaire housing ensures compliance with protection rating. Round gasket to close the fixing hole between the fixing surface and luminaire housing. Fixing lugs 9 mm high guide the mains cables between the luminaire and fixing surface. Toolless diffuser fixture using integrated metal twist clips with plastic gasket in the luminaire housing. Silicone-free design. For RIDI-TUBE lamps (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Direct ceiling mounting without the need for additional accessories. Continuous mounting with fixed luminaire spacing using accessory LFN-LVDM. Mounting on trunking possible using suitable luminaire fixtures.



### Non-standard designs:

- Versions with integral emergency lighting elements



### LFN-T16-R ... 0

Blown plastic diffuser made from opal, UV-stabilised acrylic (PMMA). For RIDI-TUBE lamp, recommended cover: clear.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]						el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H	A1	A3	K		
LFN-T16-R1X055/15xx-0	1xR-TUBE 15 W	B	605	90	70	490	123	155	0550013	0560013
LFN-T16-R1X115/30xx-0	1xR-TUBE 30 W	E, F	1205	90	70	900	313	30	0550010	0560010
LFN-T16-R1X145/35xx-0	1xR-TUBE 35 W	H, I	1507	90	70	1100	415	20	0550012	0560012
LFN-T16-R2X055/15xx-0	2xR-TUBE 15 W	B	605	90	70	490	123	155	0550048	0560048
LFN-T16-R2X115/30xx-0	2xR-TUBE 30 W	E, F	1205	90	70	900	313	30	0550049	0560049
LFN-T16-R2X145/35xx-0	2xR-TUBE 35 W	H, I	1507	90	70	1100	415	20	0550050	0560050



### LFN-T16-R ... P

Blown plastic diffuser with embossed prisms made from highly transparent UV-stabilised acrylic (PMMA). For RIDI-TUBE lamp, recommended cover: matt.

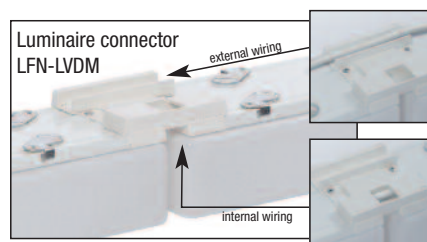
Model	Lamps max.	R-TUBE Category	Dimens. [mm]						el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H	A1	A3	K		
LFN-T16-R1X055/15xx-P	1xR-TUBE 15 W	B	605	90	70	490	123	155	0550014	0560014
LFN-T16-R1X115/30xx-P	1xR-TUBE 30 W	E, F	1205	90	70	900	313	30	0550009	0560009
LFN-T16-R1X145/35xx-P	1xR-TUBE 35 W	H, I	1507	90	70	1100	415	20	0550011	0560011
LFN-T16-R2X055/15xx-P	2xR-TUBE 15 W	B	605	90	70	490	123	155	0550072	0560072
LFN-T16-R2X115/30xx-P	2xR-TUBE 30 W	E, F	1205	90	70	900	313	30	0550073	0560073
LFN-T16-R2X145/35xx-P	2xR-TUBE 35 W	H, I	1507	90	70	1100	415	20	0550074	0560074

## Accessories



Model	Description	Prod. code
LFN-LVDM	Luminaire connector, plastic PC, spacing 20mm, for t.w.	0201815
TRA-002	Luminaire hanger M5 x 20 swing hooks, galvanized steel	0200223
VLTB	For luminaire fixing at VLT-... screw M5, max. 20 kg, 1 pc	1205260
WLFN-T16 14 O	Replacement diffuser for LFN-T16 14/24W, opal PMMA	0204909
WLFN-T16 14 PR	Replacement diffuser for LFN-T16 14/24W, prismatic PMMA	0204912
WLFN-T16 28 O	Replacement diffuser for LFN-T16 28/54W, opal PMMA	0204910
WLFN-T16 28 PR	Replacement diffuser for LFN-T16 28/54W, prismatic PMMA	0204913
WLFN-T16 35 O	Replacement diffuser for LFN-T16 35/49/80W, opal PMMA	0204911
WLFN-T16 35 PR	Replacement diffuser for LFN-T16 35/49/80W, prismatic PMMA	0204914
ZIDV-LFN-T16 14/3/1,5	Through wiring, 3x1.5mm <sup>2</sup> , LFN-T16 114/24-214, max.10A	0201812
ZIDV-LFN-T16 28/3/1,5	Through wiring, 3x1.5mm <sup>2</sup> , LFN-T16 128/54 - 228, max.10A	0201813
ZIDV-LFN-T16 35/3/1,5	Through wiring, 3x1.5mm <sup>2</sup> , LFN-T16135/49/80-235/49, max.10A	0201814
ZRP 050	Tube pendant 500mm w. canopy, M13x1, white, 1set = 1 pc	0200246
ZRP 100	Tube pendant 1000mm w. canopy, M13x1, white, 1set = 1 pc	0200247
ZUSPS	Wire pendant for hostile env. luminaires, 1.5m, 1 set = 1 pc	0201257

## Highlights LFN-T16:





## Diffuser luminaire series EK-LED ...

**Design:** Single diffuser luminaire with RIDI LED modules for ceiling and wall mounting, direct beam. Deep-drawn torsion resistant steel housing, white powder coated (similar to RAL9016). Spring catches for diffuser fixture. Fitted with RIDI LED modules. LED modules in the form of square linear segments mounted on the luminaire floor for homogenous illumination of the diffuser. LED modules with copper coating on both sides for optimum heat distribution. 2-channel design (...-2K) with two LED drivers per luminaire. Two LED circuits are each actuated by a driver, allowing separate switching (50/50), e.g. for emergency lighting.

Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

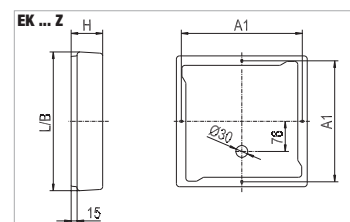
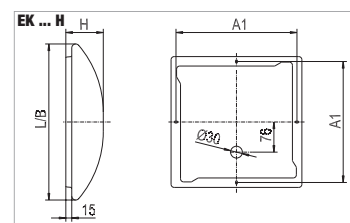
**Electrical versions:**

- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volts, 0/50-60 Hz with internal connector block 5 x 2.5 mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Direct ceiling or wall mounting without additional accessories.



acc. to DIN EN 60598/VDE 0711



**Non-standard designs:**

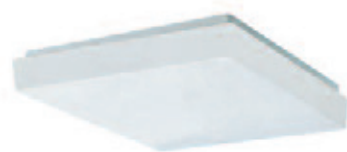
- Emergency light versions



**EK-LED ... H**

Rounded acrylic diffuser in opal, UV-stabilized PMMA.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	A1		
EK-LED 330/2500-830 H	4xLED-M 4 W	2038	19	107	830	376	376	95	307	0420679	0430679
EK-LED 330/2500-830 H-2K	4xLED-M 4 W	2038	19	107	830	376	376	95	307	0420683	
EK-LED 330/2500-840 H	4xLED-M 4 W	2038	19	107	840	376	376	95	307	0420680	0430680
EK-LED 330/2500-840 H-2K	4xLED-M 4 W	2038	19	107	840	376	376	95	307	0420684	



**EK-LED ... Z**

Flat square acrylic diffuser in opal, UV-stabilized PMMA.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	A1		
EK-LED 330/2500-830 Z	4xLED-M 4 W	2218	19	116	830	340	340	80	307	0420681	0430681
EK-LED 330/2500-830 Z-2K	4xLED-M 4 W	2218	19	116	830	340	340	80	307	0420685	
EK-LED 330/2500-840 Z	4xLED-M 4 W	2218	19	116	840	340	340	80	307	0420682	0430682
EK-LED 330/2500-840 Z-2K	4xLED-M 4 W	2218	19	116	840	340	340	80	307	0420686	

## Accessories

Model	Description	Prod. code
W-EK 330 H-0	Replacement diffuser for EK 330 H, opal PMMA	0203341
W-EK 330 Z-0	Replacement diffuser for EK 330 Z, opal PMMA	0203340

# RK-LED 260

## Diffuser luminaire series RK-LED 260

**Design:** Single diffuser luminaire round, diameter 290 mm, with LED modules for ceiling or wall mounting. Circular, deep drawn rigid steel housing, white powder-coated. Sprung steel catches are used to fix the diffuser. Fitted with RIDI-LED modules. LED modules mounted as a circular segment on the luminaire base for homogenous illumination of the diffuser. LED modules with copper coating on both sides for optimum heat distribution. 2-channel design (...-2K) with two LED drivers per luminaire. Two LED circuits are each actuated by a driver, allowing separate switching (50/50), e.g. for night lighting. In versions with radar sensor (...-RS) one channel (50%) is switched to the sensor.

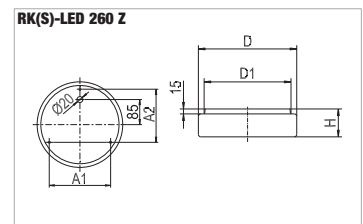
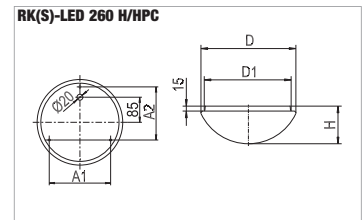
Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Prefitted high-frequency sensor (radar) for movement detection (RK-LED ... -RS). Switching output max. 100 Watt. Suitable for direct voltage operation and use in central battery systems.
- El. conv. (-EDS3): Electronic converter for LED, 220- 240 Volts, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Emergency light element and maintenance-free NiCd battery for 3-hour maintained switching, mit Selbsttest.

**Mounting:** Direct ceiling or wall mounting without additional accessories.

**Accessories:** Decor rings DR-RK ... for decorative wall connection are available.



### RK-LED ... H

Semi-circular acrylic diffuser made from opal, UV-stabilised PMMA. Smooth diffuser surface.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H	D1	A1	A2		
RK-LED 260/1300-830 H	4xLED-M 2 W	1135	9,5	119	830	290	115	262	208	180	0420649	0430649
RK-LED 260/1300-830 H-2K	4xLED-M 2 W	1135	9,5	119	830	290	115	262	208	180	0420028	
RK-LED 260/1300-830 H-2K-RS	4xLED-M 2 W	1135	9,5	119	830	290	115	262	208	180	0420028//396	
RK-LED 260/1300-830 H-EDS3	4xLED-M 2 W	1135	9,5	119	830	290	115	262	208	180	0420649//377	
RK-LED 260/1300-830 H-RS	4xLED-M 2 W	1135	9,5	119	830	290	115	262	208	180	0420649//396	
RK-LED 260/1300-840 H	4xLED-M 2 W	1135	9,5	119	840	290	115	262	208	180	0420651	0430651
RK-LED 260/1300-840 H-2K	4xLED-M 2 W	1135	9,5	119	840	290	115	262	208	180	0420024	
RK-LED 260/1300-840 H-2K-RS	4xLED-M 2 W	1135	9,5	119	840	290	115	262	208	180	0420024//396	
RK-LED 260/1300-840 H-EDS3	4xLED-M 2 W	1135	9,5	119	840	290	115	262	208	180	0420651//377	
RK-LED 260/1300-840 H-RS	4xLED-M 2 W	1135	9,5	119	840	290	115	262	208	180	0420651//396	

### RK-LED ... HPC

Semi-circular acrylic diffuser made from opal, impact-resistant UV-stabilised polycarbonate (PC). Smooth diffuser surface. Version ...-WSI: With diffuser safety catch – the diffuser is fixed at the side using a screw at the steel housing.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H	D1	A1	A2		
RK-LED 260/1300-830 HPC	4xLED-M 2 W	1135	9,5	119	830	290	115	262	208	180	0420650	0430650
RK-LED 260/1300-830 HPC-2K	4xLED-M 2 W	1135	9,5	119	830	290	115	262	208	180	0420029	
RK-LED 260/1300-830 HPC-2K-RS	4xLED-M 2 W	1135	9,5	119	830	290	115	262	208	180	0420029//396	
RK-LED 260/1300-830 HPC-EDS3	4xLED-M 2 W	1135	9,5	119	830	290	115	262	208	180	0420650//377	
RK-LED 260/1300-830 HPC-RS	4xLED-M 2 W	1135	9,5	119	830	290	115	262	208	180	0420650//396	
RK-LED 260/1300-840 HPC	4xLED-M 2 W	1135	9,5	119	840	290	115	262	208	180	0420652	0430652
RK-LED 260/1300-840 HPC-2K	4xLED-M 2 W	1135	9,5	119	840	290	115	262	208	180	0420026	
RK-LED 260/1300-840 HPC-2K-RS	4xLED-M 2 W	1135	9,5	119	840	290	115	262	208	180	0420026//396	
RK-LED 260/1300-840 HPC-EDS3	4xLED-M 2 W	1135	9,5	119	840	290	115	262	208	180	0420652//377	
RK-LED 260/1300-840 HPC-RS	4xLED-M 2 W	1135	9,5	119	840	290	115	262	208	180	0420652//396	
RK-LED 260/1300-840 HPC-WSI	4xLED-M 2 W	1135	9,5	119	840	290	115	262	208	180	0420674	



**RK-LED ... Z**

Flat cylindrical acrylic diffuser made from opal UV-stabilised PMMA. Smooth diffuser surface.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	D	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
							H	D1	A1	A2		
RK-LED 260/1300-830 Z	4xLED-M 2 W	1153	9,5	121	830	300	85	262	208	180	0420090	0430090
RK-LED 260/1300-830 Z-EDS3	4xLED-M 2 W	1153	9,5	121	830	300	85	262	208	180	0420090//377	
RK-LED 260/1300-830 Z-RS	4xLED-M 2 W	1153	9,5	121	830	300	85	262	208	180	0420090//396	
RK-LED 260/1300-840 Z	4xLED-M 2 W	1153	9,5	121	840	300	85	262	208	180	0420091	0430091
RK-LED 260/1300-840 Z-EDS3	4xLED-M 2 W	1153	9,5	121	840	300	85	262	208	180	0420091//377	
RK-LED 260/1300-840 Z-RS	4xLED-M 2 W	1153	9,5	121	840	300	85	262	208	180	0420091//396	



DR-RK 260 SM

**Accessories**

Model	Description	Prod. code
DR-RK 260 AL	Decorative ring, brushed aluminium	0208034//634
DR-RK 260 ES	Decorative ring, stainless steel	0208034//636
DR-RK 260 SM	Decorative ring, aluminium silver matt finish	0208034//607
DR-RK 260 W	Decorative ring, white steel	0208034
WRK-LED 260 H-O	Repl. diffuser for RK-LED 260 H opal PMMA	0201804
WRK-LED 260 H-OPC	Repl. diffuser for RK-LED 260 H opal PC	0201806
WRK-LED 260 Z-O	Repl. diffuser for RK-LED 260 Z opal PMMA	0208486



# Diffuser luminaire RK-ECO 260

## Diffuser luminaire RK-ECO 260 with LED modules

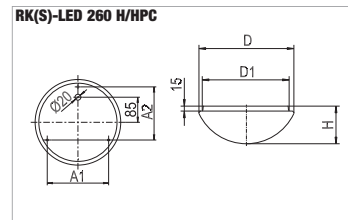
**Design:** Single diffuser luminaire with LED module, round, for ceiling or wall mounting. Circular, deep-drawn, torsionally rigid housing in steel. Housing powder coated in white, high-reflectance, colour RIDI reflection white similar to RAL 9016. Spring catches for diffuser fixture. Fitted with AC LED module.

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- Internal terminal block 3-phase.

**Mounting:** Direct ceiling/wall mounting without additional accessories.



acc. to DIN EN 60598/VDE 0711



**RK-ECO 260 ... H**

Semi-spherical acrylic diffuser diameter 290 mm in opal UV-resistant PMMA. Smooth diffuser surface.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code
						D	H	D1	A1	A2	
RK-ECO 260/1300-830 H	1xLED-M 15 W	981	15	65	830	290	115	262	208	180	0400704
RK-ECO 260/1300-840 H	1xLED-M 15 W	1036	15	69	840	290	115	262	208	180	0400705
RK-ECO 260/1800-830 H	1xLED-M 20 W	1344	20	67	830	290	115	262	208	180	0400706
RK-ECO 260/1800-840 H	1xLED-M 20 W	1420	20	71	840	290	115	262	208	180	0400707

## Diffuser luminaire RK-LED 330

**Design:** Single diffuser luminaire round, diameter 360 mm, with LED modules for ceiling or wall mounting. Circular, deep drawn rigid steel housing, white powder-coated. Sprung steel catches are used to fix the diffuser. Fitted with RIDI-LED modules. Rectangular LED modules mounted on the luminaire base for homogenous illumination of the diffuser. LED modules with copper coating on both sides for optimum heat distribution. 2-channel design (...-2K) with two LED drivers per luminaire. Two LED circuits are each actuated by a driver, allowing separate switching (50/50), e.g. for night lighting. In versions with radar sensor (...-RS) one channel (50%) is switched to the sensor.

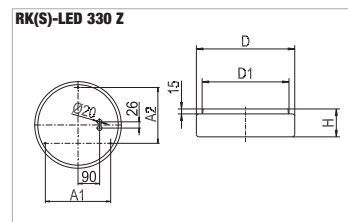
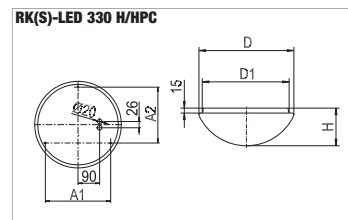
Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Prefitted high-frequency sensor (radar) for movement detection (RK-LED ... -RS). Switching output max. 100 Watt. Suitable for direct voltage operation and use in central battery systems.
- El. conv. (-EDS3): Electronic converter for LED, 220- 240 Volts, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Emergency light element and maintenance-free NiCd battery for 3-hour maintained switching, mit Selbsttest.

**Mounting:** Direct ceiling or wall mounting without additional accessories.

**Accessories:** Decor rings DR-RK ... for decorative wall connection are available.



**RK-LED ... H**

Semi-circular diffuser made from UV-stabilised opal acrylic (PMMA) with smooth surface

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H	D1	A1	A2		
RK-LED 330/1800-830 H	4xLED-M 3 W	1652	14	118	830	360	135	332	272	232	0420653	0430653
RK-LED 330/1800-830 H-2K	4xLED-M 3 W	1652	14	118	830	360	135	332	272	232	0420030	
RK-LED 330/1800-830 H-2K-RS	4xLED-M 3 W	1652	14	118	830	360	135	332	272	232	0420030//396	
RK-LED 330/1800-830 H-EDS3	4xLED-M 3 W	1652	14	118	830	360	135	332	272	232	0420653//377	
RK-LED 330/1800-830 H-RS	4xLED-M 3 W	1652	14	118	830	360	135	332	272	232	0420653//396	
RK-LED 330/1800-840 H	4xLED-M 3 W	1652	14	118	840	360	135	332	272	232	0420655	0430655
RK-LED 330/1800-840 H-2K	4xLED-M 3 W	1652	14	118	840	360	135	332	272	232	0420025	
RK-LED 330/1800-840 H-2K-RS	4xLED-M 3 W	1652	14	118	840	360	135	332	272	232	0420025//396	
RK-LED 330/1800-840 H-EDS3	4xLED-M 3 W	1652	14	118	840	360	135	332	272	232	0420655//377	
RK-LED 330/1800-840 H-RS	4xLED-M 3 W	1652	14	118	840	360	135	332	272	232	0420655//396	
RK-LED 330/2500-830 H	4xLED-M 4 W	2245	18,5	121	830	360	135	332	272	232	0420657	0430657
RK-LED 330/2500-830 H-2K	4xLED-M 4 W	2245	18,5	121	830	360	135	332	272	232	0420669	
RK-LED 330/2500-830 H-2K-RS	4xLED-M 4 W	2245	18,5	121	830	360	135	332	272	232	0420669//396	
RK-LED 330/2500-830 H-EDS3	4xLED-M 4 W	2245	18,5	121	830	360	135	332	272	232	0420657//377	
RK-LED 330/2500-830 H-RS	4xLED-M 4 W	2245	18,5	121	830	360	135	332	272	232	0420657//396	
RK-LED 330/2500-840 H	4xLED-M 4 W	2245	18,5	121	840	360	135	332	272	232	0420660	0430660
RK-LED 330/2500-840 H-2K	4xLED-M 4 W	2245	18,5	121	840	360	135	332	272	232	0420671	
RK-LED 330/2500-840 H-2K-RS	4xLED-M 4 W	2245	18,5	121	840	360	135	332	272	232	0420671//396	
RK-LED 330/2500-840 H-EDS3	4xLED-M 4 W	2245	18,5	121	840	360	135	332	272	232	0420660//377	
RK-LED 330/2500-840 H-RS	4xLED-M 4 W	2245	18,5	121	840	360	135	332	272	232	0420660//396	



## RK-LED ... HPC

Semi-circular diffuser made from opal, impact-resistant polycarbonate (PC) with smooth surface. Version ...-WSI: With diffuser safety catch – the diffuser is fixed at the side using a screw at the steel housing.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H	D1	A1	A2		
RK-LED 330/1800-830 HPC	4xLED-M 3 W	1652	14	118	830	360	135	332	272	232	0420654	0430654
RK-LED 330/1800-830 HPC-2K	4xLED-M 3 W	1652	14	118	830	360	135	332	272	232	0420031	
RK-LED 330/1800-830 HPC-2K-RS	4xLED-M 3 W	1652	14	118	830	360	135	332	272	232	0420031//396	
RK-LED 330/1800-830 HPC-EDS3	4xLED-M 3 W	1652	14	118	830	360	135	332	272	232	0420654//377	
RK-LED 330/1800-830 HPC-RS	4xLED-M 3 W	1652	14	118	830	360	135	332	272	232	0420654//396	
RK-LED 330/1800-840 HPC	4xLED-M 3 W	1652	14	118	840	360	135	332	272	232	0420656	0430656
RK-LED 330/1800-840 HPC-2K	4xLED-M 3 W	1652	14	118	840	360	135	332	272	232	0420027	
RK-LED 330/1800-840 HPC-2K-RS	4xLED-M 3 W	1652	14	118	840	360	135	332	272	232	0420027//396	
RK-LED 330/1800-840 HPC-EDS3	4xLED-M 3 W	1652	14	118	840	360	135	332	272	232	0420656//377	
RK-LED 330/1800-840 HPC-RS	4xLED-M 3 W	1652	14	118	840	360	135	332	272	232	0420656//396	
RK-LED 330/1800-840 HPC-WSI	4xLED-M 3 W	1652	14	118	840	360	135	332	272	232	0420675	
RK-LED 330/2500-830 HPC	4xLED-M 4 W	2245	18,5	121	830	360	135	332	272	232	0420658	0430658
RK-LED 330/2500-830 HPC-2K	4xLED-M 4 W	2245	18,5	121	830	360	135	332	272	232	0420670	
RK-LED 330/2500-830 HPC-2K-RS	4xLED-M 4 W	2245	18,5	121	830	360	135	332	272	232	0420670//396	
RK-LED 330/2500-830 HPC-EDS3	4xLED-M 4 W	2245	18,5	121	830	360	135	332	272	232	0420658//377	
RK-LED 330/2500-830 HPC-RS	4xLED-M 4 W	2245	18,5	121	830	360	135	332	272	232	0420658//396	
RK-LED 330/2500-840 HPC	4xLED-M 4 W	2245	18,5	121	840	360	135	332	272	232	0420661	0430661
RK-LED 330/2500-840 HPC-2K	4xLED-M 4 W	2245	18,5	121	840	360	135	332	272	232	0420672	
RK-LED 330/2500-840 HPC-2K-RS	4xLED-M 4 W	2245	18,5	121	840	360	135	332	272	232	0420672//396	
RK-LED 330/2500-840 HPC-EDS3	4xLED-M 4 W	2245	18,5	121	840	360	135	332	272	232	0420661//377	
RK-LED 330/2500-840 HPC-RS	4xLED-M 4 W	2245	18,5	121	840	360	135	332	272	232	0420661//396	
RK-LED 330/2500-840 HPC-WSI	4xLED-M 4 W	2245	18,5	121	840	360	135	332	272	232	0420676	

## RK-LED ... Z

Flat cylindrical acrylic diffuser made from opal UV-stabilised PMMA. Smooth diffuser surface.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H	D1	A1	A2		
RK-LED 330/1800-830 Z	4xLED-M 3 W	1671	14	119	830	370	85	332	272	232	0420092	0430092
RK-LED 330/1800-830 Z-EDS3	4xLED-M 3 W	1671	14	119	830	370	85	332	272	232	0420092//377	
RK-LED 330/1800-830 Z-RS	4xLED-M 3 W	1671	14	119	830	370	85	332	272	232	0420092//396	
RK-LED 330/1800-840 Z	4xLED-M 3 W	1671	14	119	840	370	85	332	272	232	0420093	0430093
RK-LED 330/1800-840 Z-EDS3	4xLED-M 3 W	1671	14	119	840	370	85	332	272	232	0420093//377	
RK-LED 330/1800-840 Z-RS	4xLED-M 3 W	1671	14	119	840	370	85	332	272	232	0420093//396	
RK-LED 330/2500-830 Z	4xLED-M 4 W	2271	18,5	122	830	370	85	332	272	232	0420659	0430659
RK-LED 330/2500-830 Z-EDS3	4xLED-M 4 W	2271	18,5	122	830	370	85	332	272	232	0420659//377	
RK-LED 330/2500-830 Z-RS	4xLED-M 4 W	2271	18,5	122	830	370	85	332	272	232	0420659//396	
RK-LED 330/2500-840 Z	4xLED-M 4 W	2271	18,5	122	840	370	85	332	272	232	0420662	0430662
RK-LED 330/2500-840 Z-EDS3	4xLED-M 4 W	2271	18,5	122	840	370	85	332	272	232	0420662//377	
RK-LED 330/2500-840 Z-RS	4xLED-M 4 W	2271	18,5	122	840	370	85	332	272	232	0420662//396	

## Accessories



DR-RK 330 SM

Model	Description	Prod. code
DR-RK 330 AL	Decorative ring, brushed aluminium	0208035//634
DR-RK 330 ES	Decorative ring, stainless steel	0208035//636
DR-RK 330 SM	Decorative ring, aluminium silver matt	0208035//607
DR-RK 330 W	Decorative ring, white steel	0208035
WRK-LED 330 H-O	Repl. diffuser for RK-LED 330 H opal PMMA	0201807
WRK-LED 330 H-OPC	Repl. diffuser for RK-LED 330 H opal PC	0201808
WRK-LED 330 Z-O	Repl. diffuser for RK-LED 330 Z opal PMMA	0208487

## Diffuser luminaire RK-ECO 330 with LED modules

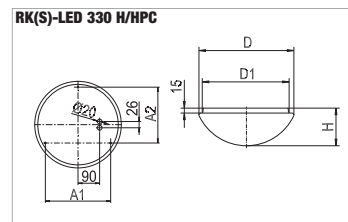
**Design:** Single diffuser luminaire with LED module, round, for ceiling or wall mounting. Circular, deep-drawn, torsionally rigid housing in steel. Housing powder coated in white, high-reflectance, colour RIDI reflection white similar to RAL 9016. Spring catches for diffuser fixture. Fitted with AC LED module.

Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- Internal terminal block 3-phase.

**Mounting:** Direct ceiling/wall mounting without additional accessories.



acc. to DIN EN 60598/VDE 0711

### RK-ECO 330 ... H

Semi-spherical acrylic diffuser diameter 360 mm in opal UV-resistant PMMA. Smooth diffuser surface.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code
						D	H	D1	A1 A2	
RK-ECO 330/1800-830 H	1xLED-M 20 W	1384	20	69	830	360	135	332	272 232	0400708
RK-ECO 330/1800-840 H	1xLED-M 20 W	1460	20	73	840	360	135	332	272 232	0400709
RK-ECO 330/2500-830 H	1xLED-M 30 W	1916	30	63	830	360	135	332	272 232	0400710
RK-ECO 330/2500-840 H	1xLED-M 30 W	2026	30	67	840	360	135	332	272 232	0400711

# RK-LED 440

## Diffuser luminaire RK-LED 440

**Design:** Single diffuser luminaire round, diameter 464 mm, with LED modules for ceiling or wall mounting. Circular, deep drawn rigid steel housing, white powder-coated. Sprung steel catches are used to fix the diffuser. Fitted with RIDI-LED modules. Rectangular LED modules mounted on the luminaire base and additionally on the cap profile bracket for homogenous illumination of the diffuser. LED modules with copper coating on both sides for optimum heat distribution. 2-channel design (...-2K) with two LED drivers per luminaire. Two LED circuits are each actuated by a driver, allowing separate switching (50/50), e.g. for night lighting. In versions with radar sensor (...-RS) one channel (50%) is switched to the sensor.

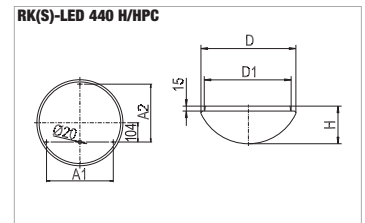
Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Prefitted high-frequency sensor (radar) for movement detection (RK-LED ...-RS). Switching output max. 100 Watt. Suitable for direct voltage operation and use in central battery systems.
- El. conv. (-EDS3): Electronic converter for LED, 220- 240 Volts, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Emergency light element and maintenance-free NiCd battery for 3-hour maintained switching, mit Selbsttest.

**Mounting:** Direct ceiling or wall mounting without additional accessories.

**Accessories:** Decor rings DR-RK ... for decorative wall connection are available.



### RK-LED ... H

Semi-circular acrylic diffuser made from opal, UV-stabilised PMMA. Smooth diffuser surface

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H	D1	A1	A2		
RK-LED 440/3750-830 H	6xLED-M 4 W	3388	28	121	830	464	160	440	360	312	0420637	0430637
RK-LED 440/3750-830 H-2K	6xLED-M 4 W	3388	28	121	830	464	160	440	360	312	0420687	0430687
RK-LED 440/3750-830 H-EDS3	6xLED-M 4 W	3388	28	121	830	464	160	440	360	312	0420637//377	
RK-LED 440/3750-830 H-RS	6xLED-M 4 W	3388	28	121	830	464	160	440	360	312	0420637//396	
RK-LED 440/3750-840 H	6xLED-M 4 W	3388	28	121	840	464	160	440	360	312	0420638	0430638
RK-LED 440/3750-840 H-2K	6xLED-M 4 W	3388	28	121	840	464	160	440	360	312	0420689	0430689
RK-LED 440/3750-840 H-EDS3	6xLED-M 4 W	3388	28	121	840	464	160	440	360	312	0420638//377	
RK-LED 440/3750-840 H-RS	6xLED-M 4 W	3388	28	121	840	464	160	440	360	312	0420638//396	



### RK-LED ... HPC

Semi-circular acrylic diffuser made from opal, impact-resistant UV-stabilised polycarbonate (PC). Smooth diffuser surface. Version ...-WSI: With diffuser safety catch – the diffuser is fixed at the side using a screw at the steel housing.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H	D1	A1	A2		
RK-LED 440/3750-830 HPC	6xLED-M 4 W	3388	28	121	830	464	160	440	360	312	0420639	0430639
RK-LED 440/3750-830 HPC-2K	6xLED-M 4 W	3388	28	121	830	464	160	440	360	312	0420688	0430688
RK-LED 440/3750-830 HPC-EDS3	6xLED-M 4 W	3388	28	121	830	464	160	440	360	312	0420639//377	
RK-LED 440/3750-830 HPC-RS	6xLED-M 4 W	3388	28	121	830	464	160	440	360	312	0420639//396	
RK-LED 440/3750-840 HPC	6xLED-M 4 W	3388	28	121	840	464	160	440	360	312	0420640	0430640
RK-LED 440/3750-840 HPC-2K	6xLED-M 4 W	3388	28	121	840	464	160	440	360	312	0420690	0430690
RK-LED 440/3750-840 HPC-EDS3	6xLED-M 4 W	3388	28	121	840	464	160	440	360	312	0420640//377	
RK-LED 440/3750-840 HPC-RS	6xLED-M 4 W	3388	28	121	840	464	160	440	360	312	0420640//396	
RK-LED 440/3750-840 HPC-WSI	6xLED-M 4 W	3388	28	121	840	464	160	440	360	312	0420677	

## Accessories



DR-RK 440 SM

Model	Description	Prod. code
DR-RK 440 AL	Decorative ring, brushed aluminium	0208036//634
DR-RK 440 ES	Decorative ring, stainless steel	0208036//636
DR-RK 440 SM	Decorative ring, aluminium silver matt	0208036//607
DR-RK 440 W	Decorative ring, white steel	0208036
WRK 440 H-O	Replacement diffuser for RK 440 H, opal PMMA	0201750
WRK 440 H-O PC	Replacement diffuser for RK 440 H, opal PC	0201801



**Diffuser luminaire RK-ECO 440 with LED modules**

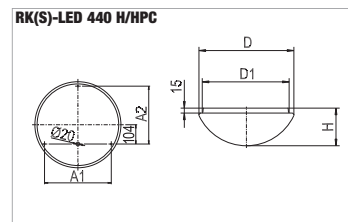
**Design:** Single diffuser luminaire with LED module, round, for ceiling or wall mounting. Circular, deep-drawn, torsionally rigid housing in steel. Housing powder coated in white, high-reflectance, colour RIDI reflection white similar to RAL 9016. Spring catches for diffuser fixture. Fitted with AC LED module.

Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- El. conv.: Electronic converter for LED, 220-240 Volt, 50-60 Hz and internal connector block 2x1.5mm<sup>2</sup>.

**Mounting:** Direct ceiling/wall mounting without additional accessories.



acc. to DIN EN 60598/VDE 0711



**RK-ECO 400 ... H**

Semi-spherical acrylic diffuser diameter 464 mm in opal UV-resistant PMMA. Smooth diffuser surface.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code
						D	H	D1	A1	A2	
RK-ECO 440/3750-830 H	4xLED-M 6 W	3255	28	116	830	464	160	440	360	312	0420720
RK-ECO 440/3750-840 H	4xLED-M 6 W	3435	28	122	840	464	160	440	360	312	0420721

## Diffuser luminaire RK-LED 560

**Design:** Single diffuser luminaire round, diameter 600 mm, with LED modules for ceiling or wall mounting. Circular, deep drawn rigid steel housing, white powder-coated. Sprung steel catches are used to fix the diffuser. Fitted with RIDI-LED modules. Rectangular LED modules mounted on the luminaire base and additionally on the cap profile bracket for homogenous illumination of the diffuser. LED modules with copper coating on both sides for optimum heat distribution. 2-channel design (...-2K) with two LED drivers per luminaire. Two LED circuits are each actuated by a driver, allowing separate switching (50/50), e.g. for night lighting. In versions with radar sensor (...-RS) one channel (50%) is switched to the sensor.

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

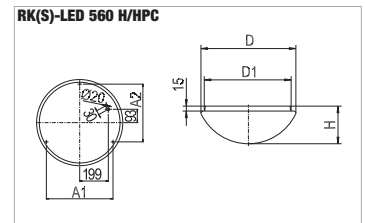
### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Prefitted high-frequency sensor (radar) for movement detection (RK-LED ... -RS). Switching output max. 100 Watt. Suitable for direct voltage operation and use in central battery systems.
- El. conv. (-EDS3): Electronic converter for LED, 220- 240 Volts, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>. Emergency light element and maintenance-free NiCd battery for 3-hour maintained switching, mit Selbsttest.

**Mounting:** Direct ceiling or wall mounting without additional accessories.



acc. to DIN EN 60598/VDE 0711



### RK-LED ... H

Semi-circular acrylic diffuser made from opal, UV-stabilised PMMA. Structured diffuser surface.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H	D1	A1	A2		
RK-LED 560/5000-830 H	8xLED-M 4 W	4553	37	123	830	600	165	560	464	402	0420641	0430641
RK-LED 560/5000-830 H-2K	8xLED-M 4 W	4553	37	123	830	600	165	560	464	402	0420691	0430691
RK-LED 560/5000-830 H-EDS3	8xLED-M 4 W	4553	37	123	830	600	165	560	464	402	0420641//377	
RK-LED 560/5000-830 H-RS	8xLED-M 4 W	4553	37	123	830	600	165	560	464	402	0420641//396	
RK-LED 560/5000-840 H	8xLED-M 4 W	4553	37	123	840	600	165	560	464	402	0420642	0430642
RK-LED 560/5000-840 H-2K	8xLED-M 4 W	4553	37	123	840	600	165	560	464	402	0420693	0430693
RK-LED 560/5000-840 H-EDS3	8xLED-M 4 W	4553	37	123	840	600	165	560	464	402	0420642//377	
RK-LED 560/5000-840 H-RS	8xLED-M 4 W	4553	37	123	840	600	165	560	464	402	0420642//396	



### RK-LED ... HPC

Semi-circular acrylic diffuser made from opal, impact-resistant UV-stabilised polycarbonate (PC). Structured diffuser surface.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H	D1	A1	A2		
RK-LED 560/5000-830 HPC	8xLED-M 4 W	4553	37	123	830	600	165	560	464	402	0420643	0430643
RK-LED 560/5000-830 HPC-2K	8xLED-M 4 W	4553	37	123	830	600	165	560	464	402	0420692	0430692
RK-LED 560/5000-830 HPC-EDS3	8xLED-M 4 W	4553	37	123	830	600	165	560	464	402	0420643//377	
RK-LED 560/5000-830 HPC-RS	8xLED-M 4 W	4553	37	123	830	600	165	560	464	402	0420643//396	
RK-LED 560/5000-840 HPC	8xLED-M 4 W	4553	37	123	840	600	165	560	464	402	0420644	0430644
RK-LED 560/5000-840 HPC-2K	8xLED-M 4 W	4553	37	123	840	600	165	560	464	402	0420694	0430694
RK-LED 560/5000-840 HPC-EDS3	8xLED-M 4 W	4553	37	123	840	600	165	560	464	402	0420644//377	
RK-LED 560/5000-840 HPC-RS	8xLED-M 4 W	4553	37	123	840	600	165	560	464	402	0420644//396	

## Accessories

Model	Description	Prod. code
WRK 560 H-O	Replacement diffuser for RK 560 H, opal PMMA	0204448
WRK 560 H-O-PC	Repl. diffuser for RK 560 H opal PC	0208488

**Mirror luminaire series SPN-R**

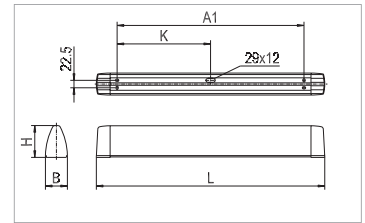
**Design:** Single luminaire for ceiling or wall mounting. Extruded aluminium profile, white powder coated, colour similar to RAL9016 with plastic end pieces in UV-stabilised polyamide. Diffuser in opal UV-stabilised acrylic (PMMA) with satin surface finish. Diffuser without catches clips directly onto the aluminium profile. Lamp: RIDI-TUBE.

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

**Electrical versions:**

- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Direct ceiling or wall mounting without additional accessories.



**Non-standard designs:**

- Paintwork finish in RAL colour



acc. to DIN EN 60598/VDE 0711

**SPN-R ..., IP 40**

Plastic end pieces closed on both sides. Protection rating IP 40. For RIDI-TUBE lamp (order separately), recommended cover: clear.



Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			A1	K	el. conv. xx=ND Prod. code
				B	H	A1			
SPN-R1X055/15xx	1xR-TUBE 15 W	A, B	660	67	97	532	90	0450001	
SPN-R1X085/25xx	1xR-TUBE 25 W	C	960	67	97	832	285	0450045	
SPN-R1X115/30xx	1xR-TUBE 30 W	E, F	1260	67	97	1132	590	0450049	

**SPN-R ... S, IP 40**

One plastic end piece with prefitted mains switch. Protection rating IP 40. For RIDI-TUBE lamp (order separately), recommended cover: clear.



Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			A1	K	el. conv. xx=ND Prod. code
				B	H	A1			
SPN-R1X055/15xx-S	1xR-TUBE 15 W	B	660	67	97	532	90	0450043	
SPN-R1X085/25xx-S	1xR-TUBE 25 W	C	960	67	97	832	285	0450046	
SPN-R1X115/30xx-S	1xR-TUBE 30 W	E, F	1260	67	97	1132	590	0450050	

**SPN-R ... ST, IP 20**

One plastic end piece with prefitted earthed socket (max. 16A) and mains switch. Protection rating IP 20. For RIDI-TUBE lamp (order separately), recommended cover: clear.



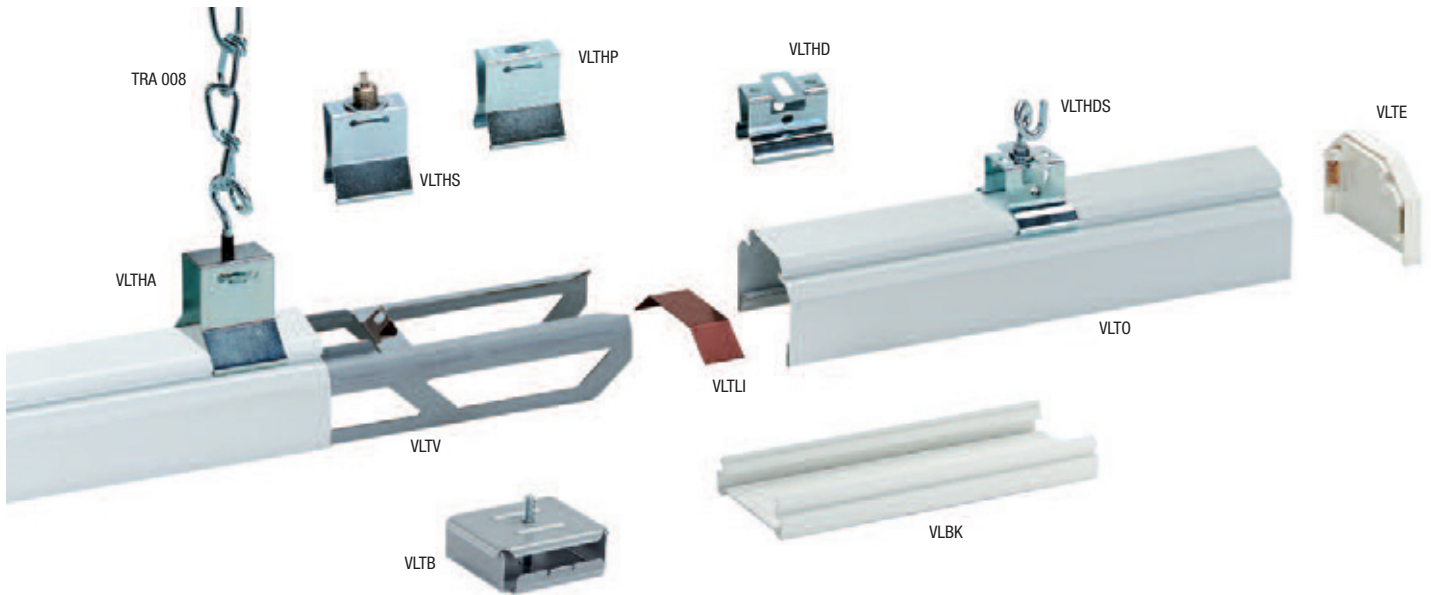
Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			A1	K	el. conv. xx=ND Prod. code
				B	H	A1			
SPN-R1X085/25xx-ST	1xR-TUBE 25 W	C	960	67	97	832	285	0450047	
SPN-R1X115/30xx-ST	1xR-TUBE 30 W	E, F	1260	67	97	1132	590	0450051	

**Accessories**




Model	Description	Prod. code
W-SPN 114 0	Replacement diffuser for SPN 114, opal, satin finish PMMA	0203361
W-SPN 121 0	Replacement diffuser for SPN 121, opal, satin finish PMMA	0203765
W-SPN 128 0	Replacement diffuser for SPN 128, opal, satin finish PMMA	0203976



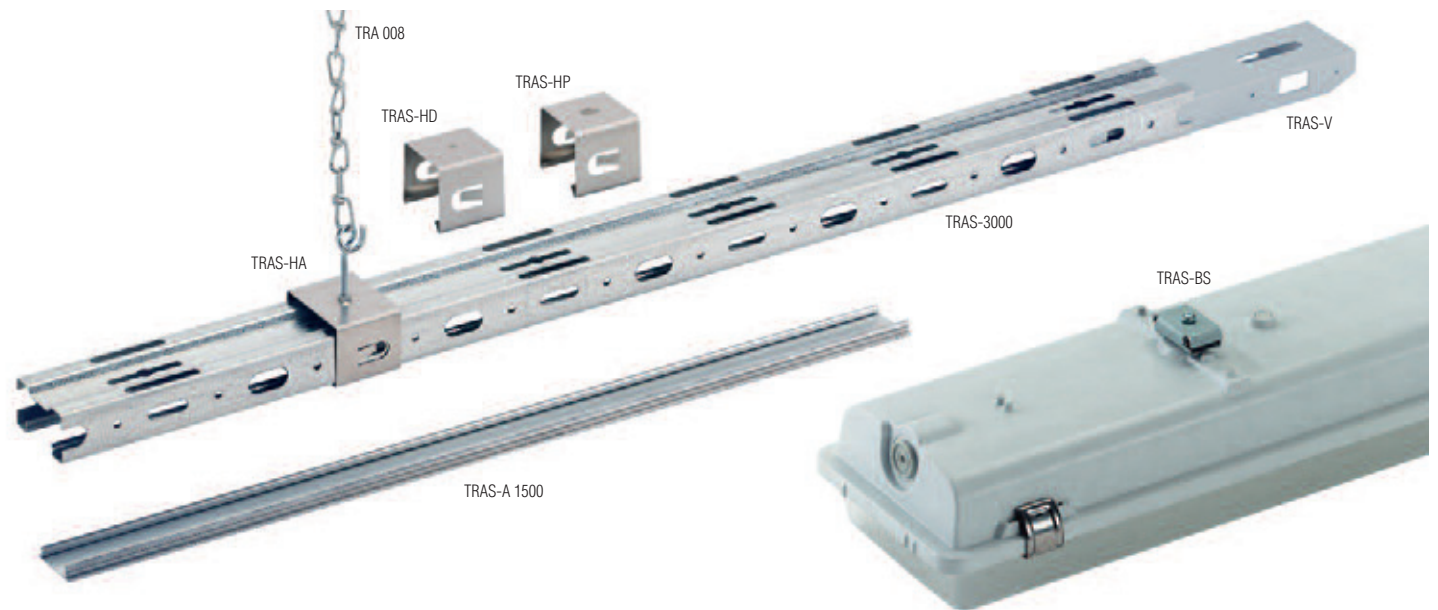
## VLTO accessories for suspended installation with trunking



Model	Description	Prod. code
SLKB 3-7	Quick fixing for L and T supports, A=3 - 7mm, with loop	0200907
SLKB 8-13	Quick fixing for L and T supports, A=8- 13mm, with loop	0200908
SLKBT	Quick fixing for system ceilings, with loop	0200910
SLKBT M6x16	Quick fixing for system ceilings, with thread M6x16	0200912
SLKBTR M6	Quick fixing for trapezoidal sections, loop bolt M6	0201525
SLKG	S chain link, max.20kg, per unit	0200906
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
VLB .36	Dummy cover, L=1237 mm, IP20, white	1500049
VLB .36 SI	Dummy cover, L=1237 mm, IP20, silver	1500049SI
VLB .58	Dummy cover, L=1537 mm, IP20, white	1500050
VLB .58 SI	Dummy cover, L=1537 mm, IP20, silver	1500050SI
VLBK 361	Dummy cover, L=1237mm, IP20, white plastic	1205188
VLBK 361 SI	Dummy cover, L=1237mm, IP20, silver plastic	1205188SI
VLBK 363	Dummy cover, IP20, L=3711mm, white plastic	1205189
VLBK 363 SI	Dummy cover, IP20, L=3711mm, silver plastic	1205189SI
VLBK 581	Dummy cover, L=1537mm, IP20, white plastic	1205105
VLBK 581 SI	Dummy cover, L=1537mm, IP20, silver plastic	1205105SI
VLBK 583	Dummy cover, L=4611mm, IP20, white plastic	1205008
VLBK 583 SI	Dummy cover, L=4611mm, IP20, silver plastic	1205008SI
VLBKK-AP	Safety clamp for VLBK, natural 1 pc	0206551AP
VLBKK-M5	for luminaire fixture to VLT-... screw M5, max. 4 kg, 1 pc.	0206556
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLG-KB	Safety clamp for VLB, white, 1 pc.	0206905
VLG-KB-AG	Safety clamp for VLB, silver, 1 pc.	0206905AG
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888
VLKL	Cable channel with clips, L=4600mm	0205775
VLSPS	Tension hook, 30mm adjustment path, max.20kg, 1 pc	0205889
VLSPSO-KH	Tension hook w. loop and carabiner adj. 50 mm, max. 20kg 1pc	0208347
VLTB	For luminaire fixing at VLT-... screw M5, max. 20 kg, 1 pc	1205260
VLTE	Trunking end cap, white, plastic, 1 pc	0205791
VLTE SI	Trunking end cap, silver, plastic, 1 pc	0205791SI
VLTHA	Chain suspension hanger adjustable nut, 1 pc	0205792
VLTHB	Chain suspension hanger, quick adjustment, 1 pc	0205685
VLTHD	Hanger for ceiling mounting, max. 20kg, 1 pc	0205794
VLTHD-H10	Hanger for ceiling mounting H=10mm, max. 20kg, 1 pc.	0205930
VLTHD-H10-WS	Hanger for ceiling mounting H=10mm, white max. 20kg, 1 pc.	0205930BA
VLTHDS	Chain suspension hanger, angular mounting, max 20kg, 1 pc	0205222
VLTHP	Hanger for 13.5mm dia. pendant tubes, 1pc	0205793
VLTHS	Hanger with wire 1.5m + ring loop, 1 pc.	0205922

	Model	Description	Prod. code
	VLTHSB	Hanger with wire 1.5m + canopy, 1 pc.	0205923
	VLTHSD	Hanger with wire 1.5m + canopy, silver, 1 pc.	0205923SI
	VLTHSD	Hanger with wire 1.5m + ceiling fixing, 1 pc.	0205921
	VLTHSS	Hanger with wire 1.5m + ceiling fixing, inclined ceilings, 1 pc	0205920
	VLTHST	Wire pend. f. syst. ceil. 24-26mm T, max 10kg, 1.5m, 1 pc	0207943
	VLHT	Hanger for T bar system ceilings, 1 pc	0205788
	VLHT 0°	Hanger for system ceilings, below T bar, no gap	0208286
	VLHT 90°	Hanger for system ceilings, 90° to T bar, no gap	0208285
	VLTKS	Hanger f. chain, angled mounting to 45° w. 1 clamping screw	0205886
	VLTLA	Ext. cable retainer max. 2 x dia.13mm + 1 x dia.7mm, 1 pc	0205760
	VLTLI	Internal cable retainer, 10 units, observe instructions	0205761
	VLTLIK	Internal cable retainer, plastic, 10 units, observe instructions	0208310
	VLT0 361	Trunking 36W, 1-length L=1237mm, no through wiring, white	1500001
	VLT0 361 SI	Trunking 36W, 1-length L=1237mm, no through wiring, silver	1500001SI
	VLT0 362	Trunking 36W, 2-length L=2474mm, no through wiring, white	1500002
	VLT0 362 SI	Trunking 36W, 2-length L=2474mm, no through wiring, silver	1500002SI
	VLT0 363	Trunking 36W, 3-length L=3711mm, no through wiring, white	1500003
	VLT0 363 SI	Trunking 36W, 3-length L=3711mm, no through wiring, silver	1500003SI
	VLT0 581	Trunking 58W, 1-length L=1537mm, no through wiring, white	1500004
	VLT0 581 SI	Trunking 58W, 1-length L=1537mm, no through wiring, silver	1500004SI
	VLT0 582	Trunking 58W, 2-length L=3074mm, no through wiring, white	1500005
	VLT0 582 SI	Trunking 58W, 2-length L=3074mm, no through wiring, silver	1500005SI
	VLT0 583	Trunking 58W, 3-length L=4611mm, no through wiring, white	1500006
	VLT0 583 SI	Trunking 58W, 3-length L=4611mm, no through wiring, silver	1500006SI
	VLTV	IP20 and IP54 trunking connector, 1 pc	1205790
	VLTVA	External trunking connector IP20	0206548
	VLTVA-AG	Ext. trunking connector IP20, silver similar to RAL 9006	0206548AG
	VLTW	Hanger for angled mounting 30°, 45°, 60° ceiling (wall), 1 pc.	0205885
	ZRP 050	Tube pendant 500mm w. canopy, M13x1, white, 1set = 1 pc	0200246
	ZRP 050 SI	Tube pendant 500mm w. canopy, M13x1, silver 1set = 1 pc	0200246SI
	ZRP 100	Tube pendant 1000mm w. canopy, M13x1, white, 1set = 1 pc	0200247
	ZRP 100 SI	Tube pendant 1000mm w. canopy, M13x1, silver 1set = 1 pc	0200247SI
	ZRPA	Hanger for shortened tube pendant, D13	0050564
	ZRPH 050	Tube pendant, domed canopy, white, L=0.5m, 1 pc	0205020
	ZRPH 100	Tube pendant, domed canopy, white, L=1.0 m, 1 pc	0205021
	ZRPK	Tube pendant 114mm with canopy 1 set = 1pc	0200483
	ZSP-SK-3M	Wire pendant loop clamp, D=2.0mm, L=3.0m, 1pc, max. 45kg	0207880

## TRAS accessories for suspended installation with trunking



Model	Description	Prod. code
SLKB 3-7	Quick fixing for L and T supports, A=3 - 7mm, with loop	0200907
SLKB 8-13	Quick fixing for L and T supports, A=8- 13mm, with loop	0200908
SLKBT	Quick fixing for system ceilings, with loop	0200910
SLKBT M6x16	Quick fixing for system ceilings, with thread M6x16	0200912
SLKBTR M6	Quick fixing for trapezoidal sections, loop bolt M6	0201525
SLKG	S chain link, max. 20kg, per unit	0200906
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
TRAS 3000	Galvanized steel trunking, L=3.0m, weight 3.9 kg	0207851
TRAS 4500	Galvanized steel trunking, L=4.5m, weight 5.9 kg	0207852
TRAS-A 1500	Galv. cover for TRAS, L=1.5m, ball resistant with TRAS-AB	0207853
TRAS-B	Luminaire fixing for surface mounted luminaires	0207870
TRAS-BS	Luminaire fixing for PFN, PFAG, PFAMI, PLF, PCAMI, PCAG	0207871
TRAS-BSK	Clamp for luminaires on TRAS, max. 8kg, 1/luminaire	0208436
TRAS-HA	Chain suspension hanger adjustable nut, 1 pc	0207867
TRAS-HAS	Angular chain suspension hanger, 1 pc	0207944
TRAS-HD	Hanger with 6.0 dia. for ceiling mounting, 1 pc	0207868
TRAS-V	Trunking connector for TRAS, 1pc	0207860
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888
VLSPS	Tension hook, 30mm adjustment path, max.20kg, 1 pc	0205889
VLSPSO-KH	Tension hook w. loop and carabiner adj. 50 mm, max. 20kg 1pc	0208347
ZSP-SK-3M	Wire pendant loop clamp, D=2.0mm, L=3.0m, 1pc, max. 45kg	0207880



# LUMINAIRES

## with higher protection rating

luminaires with higher  
PROTECTION RATING

Chem. material	Polyester	Acrylic glas (abbr. PMMA)	Polycarbonate (abbr. PC) Protect. tubes PC
Acetone	–	–	–
Aliphatic hydrocarbons	0	0	•
Alcohol up to 30%	•	•	•
Alcohol conc.	0	–	–
Ammoniac 25%	0	•	–
Accumulator acid	•	•	•
Aniline	–	–	–
Aromatic hydrocarbons	0	–	–
Ether	0	–	–
Ethylacetate (ester)	–	–	–
Benzene (cleaner's solvent)	•	•	•
Benzole	–	–	–
Beer	•	•	•
Blood	•	•	•
Bromine acid	–	–	–
Chloroform	–	–	–
Chlorphenol	–	–	–
Diesel oil, crude oil	•	•	0
Dioxin	•	–	–
Acetic acid up to 5%	•	0	•
Acetic acid up to 30 %	•	–	0
Glycerine	•	•	0
Glycol	•	•	•
Glycantine	•	•	•
Carbon dioxide	•	•	•
Carbon monoxide	•	•	•
Lime milk	•	•	0
Sodium chloride solution	•	•	•
Cetone	–	–	–
Lysol	–	–	–
Seawater	•	•	•
Methylene chloride	–	–	–
Methanol	–	–	–
Metal salts and their aqueous solutions	•	•	•
Caustic soda 2 %	0	•	–
Caustic soda 10 %	–	•	–
Petrol ether	•	•	0
Pyridine	–	–	–
Phenol	–	–	–
Nitric acid up to 10 %	•	•	•
10 up to 20 %	0	0	0
from 20 %	–	–	–
Hydrochloric acid up to 20 %	•	•	•
from 20 %	•	•	0
Sulphuric acid up to 50 %	•	•	•
up to 70 %	•	0	0
from 70 %	–	–	–
Sulphuric acid up to 5 %	0	0	–
Hydrogen sulphide	•	•	•
Soapy solution	•	•	•
Soda	•	•	•
Synthetic detergent solution	•	•	0
Turpentine oil	•	0	0
Carbon tetrachloride	•	–	–
Water up to 60°	•	•	•
Hydrogen peroxide up to 40 %	–	–	0
over 40 %	–	0	0
Xylene	–	–	–



## Hostile environment luminaires with metal housing

RIDI offers a comprehensive range of luminaires with a protection rating of IP54 or higher. The range comprises

- Surface mounted luminaires
- Recessed luminaires
- Diffuser luminaires

The luminaires are designed for use in rooms which are humid or exposed to high levels of dust. They can also be used in outdoor applications under cover, provided adequate protection is provided against direct influence of the weather. In steel housings, the base material is galvanised and the metal body is then powder coated.

Luminaires IHLS for T16 lamps are available as a louvre variant with parabolic louvre. This allows VDU workstations located in hostile environments to be illuminated in line with standard requirements. A wide range of fixing accessories are available to permit mounting in different situations.

## Hostile environment luminaires with plastic housing

RIDI offers a complete range of hostile environment luminaires for a wide range of different applications in environments which are humid or exposed to high levels of dust.

These luminaires can also be used in areas where the occasional occurrence of different chemical concentrations cannot be excluded (for details, see resistance table).

## Trunking mounting

If these hostile environment luminaires are intended for mounting in the form of suspended continuous lighting systems on trunking, three different types of trunking with the relevant accessories are available depending on the application:

- Plastic trunking TRAK
- Aluminium trunking TRAL
- Steel trunking VLTO and TRAS

## Resistance table

The resistance table provides an overview of the chemical resistance of the most important materials used for luminaire construction.

The chemical resistance specification provided refers to an ambient temperature of appr.

- = Resistant
- o = Conditionally resistant
- = Not resistant

## Special remarks:

If hostile environment luminaires are used in areas where a high incidence of oil, grease or chlorine vapours is likely to occur or where direct contact with these materials is possible, for example in the food processing industry (meat industry), kitchens, directly in areas where machines are operating or in swimming pools, diffusers made of PMMA must be used in conjunction with V2A catches.

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	Hostile environment luminaire accessories Plastic trunking TRAK Trunking systems TRAS, VLTO, TRAL	383

## Industrial luminaire IHLS-L - IP64

**Design:** Surface-mounted industrial luminaire protection rating IP64 for ceiling, pendant or rail mounting. Inclusive of RIDI-LED lamp L-TUBE-B. Rigid galvanised steel luminaire housing with white powder coated finish, colour similar to RAL9016. Narrow frame in extruded aluminium with panel of impact-resistant UV stabilised acrylic (PMMA). Frame retained in the luminaire housing by spring clips, hinges downwards on both sides.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Lampholder system:** Aluminium cap profile fixture on the luminaire side for efficient heat transfer, spring steel fixing clip on the lamp side for positive locking connection with cap profile. Locking on the longitudinal side by means of a catch. Easy removal through blue plastic component. Plug and socket electrical connection.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Ceiling mounting without additional accessories using attached cap profiles or directly on the ceiling with accessory IHLS-DB .....Pendant mounting on chain or wire using attached cap profiles. Trunking mounting with fixing clips or standard fastenings.

### Note regarding wiring:

IHLS-L 154, 180, 254, 280, 424: all lamps are wired to L1.

IHLS-L 354, 380: central lamp wired to L1, outer lamps to L2.

IHLS-L 454, 480: both central lamps wired to L1, outer lamps to L2.

Other wiring arrangements are available on request.

**Note:** Luminaires comply with the D symbol requirements according to the new standard and FF according to the old standard.

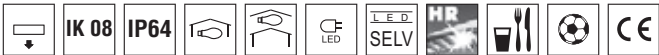
### Note „ball resistant“:

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.

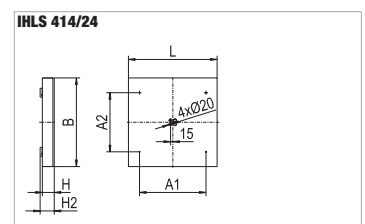
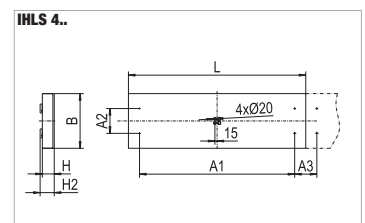
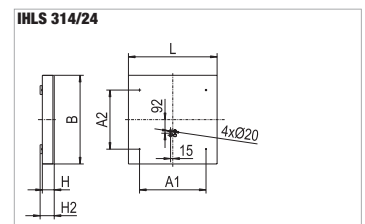
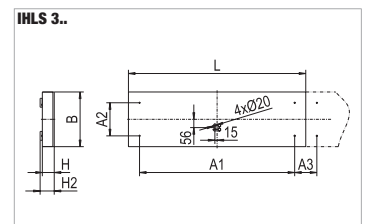
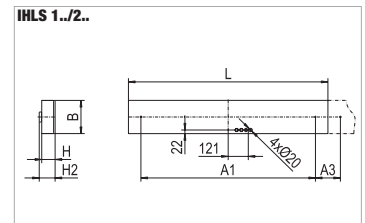
The ball resistant rating certifies the high level of robustness of these models, which is also a significant benefit in industrial luminaires.

### Note on “Food Hygiene Act“:

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.



acc. to DIN EN 60598/VDE 0711



### Non-standard designs:

- Versions with toughened safety glass panel
- Paintwork finish in RAL colour
- Integration of emergency lighting elements

IHLS-L 380 SM



### IHLS-L ... SM

Clear panel in PMMA, parabolic mirror louvre SM made of high-reflectance matt anodised super-purity aluminium with silver coating. Reflector made of high-reflectance matt anodised super-purity aluminium with silver coating.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	B	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
								H	A1	A2	A3	H2		
IHLS-L 154/410-840 SM	1xL-TUBE-B 33 W	4352	38	114	840	1200	200	80	1050	-	150	95	0650553	0660553
IHLS-L 180/935-840 SM	1xL-TUBE-B 58W	8658	67	129	840	1500	200	80	1350	-	150	95	0650606	0660606
IHLS-L 254/820-840 SM	2xL-TUBE-B 33 W	8093	76	106	840	1200	248	80	1050	-	150	95	0650555	0660555
IHLS-L 280/1870-840 SM	2xL-TUBE-B 58W	16101	134	120	840	1500	248	80	1350	-	150	95	0650607	0660607
IHLS-L 324/570-840 SM	3xL-TUBE-B 14 W	-tba-	-tba-	-tba-	840	600	600	80	450	400	-	95	0650557	0660557
IHLS-L 354/1230-840 SM	3xL-TUBE-B 33 W	12140	114	106	840	1200	370	80	1050	224	150	95	0650558	0660558
IHLS-L 380/2520-840 SM	3xL-TUBE-B 51W	21697	176	123	840	1500	370	80	1350	224	150	95	0650608	0660608
IHLS-L 424/760-840 SM	4xL-TUBE-B 14 W	-tba-	-tba-	-tba-	840	600	600	80	450	400	-	95	0650560	0660560
IHLS-L 454/1640-840 SM	4xL-TUBE-B 33 W	16187	152	106	840	1200	466	80	1050	216	150	95	0650561	0660561
IHLS-L 480/3360-840 SM	4xL-TUBE-B 51W	28930	235	123	840	1500	466	80	1350	216	150	95	0650609	0660609

IHLS-L 280 SB

**IHLS-L ... SB**

Clear panel SB in PMMA, reflector made of high-reflectance matt anodised super-purity aluminium with silver coating.

IHLS-L 424 SB



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	B	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code	
								H	A1	A2	A3			H2
IHLS-L 154/410-840 SB	1xL-TUBE-B 33 W	3793	38	99	840	1200	200	80	1050	-	150	95	0650077	0660077
IHLS-L 180/935-840 SB	1xL-TUBE-B 58W	7545	67	112	840	1500	200	80	1350	-	150	95	0650598	0660598
IHLS-L 254/820-840 SB	2xL-TUBE-B 33 W	7586	76	99	840	1200	248	80	1050	-	150	95	0650079	0660079
IHLS-L 280/1870-840 SB	2xL-TUBE-B 58W	15091	134	112	840	1500	248	80	1350	-	150	95	0650599	0660599
IHLS-L 324/570-840 SB	3xL-TUBE-B 14 W	-tba-	-tba-	-tba-	840	600	600	80	450	400	-	95	0650081	0660081
IHLS-L 354/1230-840 SB	3xL-TUBE-B 33 W	11379	114	99	840	1200	370	80	1050	224	150	95	0650082	0660082
IHLS-L 380/2520-840 SB	3xL-TUBE-B 51W	20336	176	115	840	1500	370	80	1350	224	150	95	0650600	0660600
IHLS-L 424/760-840 SB	4xL-TUBE-B 14 W	-tba-	-tba-	-tba-	840	600	600	80	450	400	-	95	0650084	0660084
IHLS-L 454/1640-840 SB	4xL-TUBE-B 33 W	15172	152	99	840	1200	466	80	1050	216	150	95	0650085	0660085
IHLS-L 480/3360-840 SB	4xL-TUBE-B 51W	27115	235	115	840	1500	466	80	1350	216	150	95	0650601	0660601

IHLS-L 2... OS

**IHLS-L ... OS**

Opal panel OS in PMMA, reflector made of high-reflectance matt anodised super-purity aluminium with silver coating.

IHLS-L 424 OS



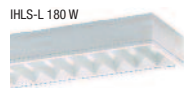
Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	B	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code	
								H	A1	A2	A3			H2
IHLS-L 154/410-840 OS	1xL-TUBE-B 33 W	2881	38	75	840	1200	200	80	1050	-	150	95	0650087	0660087
IHLS-L 180/935-840 OS	1xL-TUBE-B 58W	5732	67	85	840	1500	200	80	1350	-	150	95	0650594	0660594
IHLS-L 254/820-840 OS	2xL-TUBE-B 33 W	5762	76	75	840	1200	248	80	1050	-	150	95	0650089	0660089
IHLS-L 280/1870-840 OS	2xL-TUBE-B 58W	14436	134	107	840	1500	248	80	1350	-	150	95	0650595	0660595
IHLS-L 324/570-840 OS	3xL-TUBE-B 14 W	-tba-	-tba-	-tba-	840	600	600	80	450	400	-	95	0650091	0660091
IHLS-L 354/1230-840 OS	3xL-TUBE-B 33 W	8643	114	75	840	1200	370	80	1050	224	150	95	0650092	0660092
IHLS-L 380/2520-840 OS	3xL-TUBE-B 51W	19454	176	110	840	1500	370	80	1350	224	150	95	0650596	0660596
IHLS-L 424/760-840 OS	4xL-TUBE-B 14 W	-tba-	-tba-	-tba-	840	600	600	80	450	400	-	95	0650094	0660094
IHLS-L 454/1640-840 OS	4xL-TUBE-B 33 W	11524	152	75	840	1200	466	80	1050	216	150	95	0650095	0660095
IHLS-L 480/3360-840 OS	4xL-TUBE-B 51W	25939	235	110	840	1500	466	80	1350	216	150	95	0650597	0660597

IHLS-L 280 W

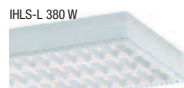
**IHLS-L ... W**

Clear panel in PMMA, white louvre W made of white coated aluminium, reflector made of high-reflectance matt anodised super-purity aluminium with silver coating.

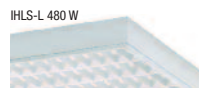
IHLS-L 180 W



IHLS-L 380 W



IHLS-L 480 W



IHLS-L 424 W



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	L	B	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code	
								H	A1	A2	A3			H2
IHLS-L 154/410-840 W	1xL-TUBE-B 33 W	3619	38	95	840	1200	200	80	1050	-	150	95	0650067	0660067
IHLS-L 180/935-840 W	1xL-TUBE-B 58W	7200	67	107	840	1500	200	80	1350	-	150	95	0650602	0660602
IHLS-L 254/820-840 W	2xL-TUBE-B 33 W	7238	76	95	840	1200	248	80	1050	-	150	95	0650069	0660069
IHLS-L 280/1870-840 W	2xL-TUBE-B 58W	12679	134	94	840	1500	248	80	1350	-	150	95	0650603	0660603
IHLS-L 324/570-840 W	3xL-TUBE-B 14 W	-tba-	-tba-	-tba-	840	600	600	80	450	400	-	95	0650071	0660071
IHLS-L 354/1230-840 W	3xL-TUBE-B 33 W	10857	114	95	840	1200	370	80	1050	224	150	95	0650072	0660072
IHLS-L 380/2520-840 W	3xL-TUBE-B 51W	19404	176	110	840	1500	370	80	1350	224	150	95	0650604	0660604
IHLS-L 424/760-840 W	4xL-TUBE-B 14 W	-tba-	-tba-	-tba-	840	600	600	80	450	400	-	95	0650074	0660074
IHLS-L 454/1640-840 W	4xL-TUBE-B 33 W	14476	152	95	840	1200	466	80	1050	216	150	95	0650075	0660075
IHLS-L 480/3360-840 W	4xL-TUBE-B 51W	25872	235	110	840	1500	466	80	1350	216	150	95	0650605	0660605



## Accessories

Model	Description	Prod. code
IHLS-DB 154	Ceiling fixing kit for IHLS 128/54 and 228/54, white	0208098
IHLS-DB 180	Ceiling fixing kit for IHLS 135/49/80 and 235/49/80, white	0208099
IHLS-DB 254	Ceiling fixing kit for IHLS 228/54, white	0208392
IHLS-DB 280	Ceiling fixing kit for IHLS 235/49/80, white	0208393
IHLS-DB 324/424	Ceiling fixing kit for IHLS 314/24 and 414/24, white	0208102
IHLS-DB 354/354-4	Ceiling fixing kit for IHLS 428/54 and 428/54-3, white	0208100
IHLS-DB 380/380-4	Ceiling fixing kit for IHLS 435/49/80 and 435/49/80-3, white	0208101
IHLS-DB 454	Ceiling fixing kit for IHLS 428/54, white	0208390
IHLS-DB 480	Ceiling fixing kit for IHLS 435/49/80, white	0208391
TRA 002 SHL	Luminaire hanger SHL, swing hook M5x20, galv. steel, 1 pc	0200228
TRA 008	Galvanised chain, max. 20kg, weight 0.25 kg/m	0200251
UKNS	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0210958
UKNS 3M	Wire pendant w. ceiling fixing and wire clamp 3.0m, 1 pc	0215942
UKNS 5M	Wire pendant w. ceiling fixing and wire clamp 5.0m, 1 pc	0215943
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888
VLSPSO-KH	Tension hook w. loop and carabiner adj. 50 mm, max. 20kg 1pc	0208347
ZGH	Rubber suction device for removal of the protective glass	0203626
ZRO	Frame opener	0204003
ZSP-SK-3M	Wire pendant loop clamp, D=2.0mm, L=3.0m, 1pc, max. 45kg	0207880

## Recessed luminaire series EIHL-S-L ...

**Design:** Recessed industrial luminaire, protection rating IP 64 on the room side and IP 54 on the ceiling side, single closed luminaire, includes RIDI LED L-TUBE-B lamp. Rigid luminaire housing in white powder-coated galvanised steel, colour similar to RAL9016. Prefitted top reflector in high-reflectance super-purity aluminium with silver coating, matt anodised. Narrow frame in extruded sectional aluminium with panel in tough UV-stabilised PMMA. Frame held invisibly in the luminaire housing by spring clips, hinges down on both sides with automatic connection to the earth conductor. Seals due to protection rating and circumferential sealing within the luminaire edge, foamed for sealing with the ceiling.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Lampholder system:** Aluminium cap profile fixture on the luminaire side for efficient heat transfer, spring steel fixing clip on the lamp side for positive locking connection with cap profile. Locking on the longitudinal side by means of a catch. Easy removal through blue plastic component. Plug and socket electrical connection.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Prepared for recessed mounting in different trunking ceiling systems using suitable fixing kit (accessory) or for lay-in mounting in exposed trunking ceiling systems and lay-in ceiling panels. No additional accessories are required for lay-in mounting. However, the luminaires must be safeguarded against high pressures.

**Note regarding wiring:**

EIHL-S-L 154, 180, 254, 280, 424: all lamps are wired to L1.

EIHL-S-L 354, 380: central lamp wired to L1, outer lamps to L2.

EIHL-S-L 454, 480: both central lamps wired to L1, outer lamps to L2.

Other wiring arrangements are available on request.

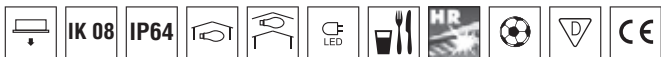
**Note „ball resistant“:**

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.

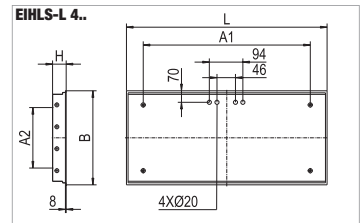
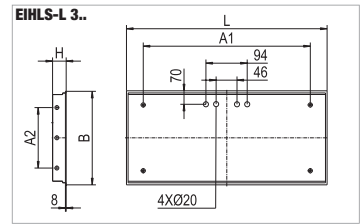
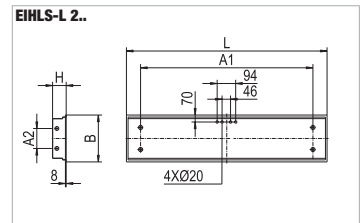
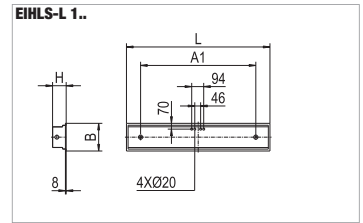
The ball resistant rating certifies the high level of robustness of these models, which is also a significant benefit in industrial luminaires.

**Note on “Food Hygiene Act”:**

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.



acc. to DIN EN 60598/VDE 0711



**Non-standard designs:**

- Version with toughened safety glass panel
- Versions with emergency lighting

EIHL-S-L 380 SM



**EIHL-S-L ... SM**

Clear panel in PMMA for glare reduction parabolic mirror louvre SM made of high-reflectance matt anodised super-purity aluminium with silver coating. Reflector made of high-reflectance matt anodised super-purity aluminium with silver coating, symmetric beam.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency	Luminous colour	Dimens. [mm]			LE*	BE*	Ceiling type	el. conv. Prod. code	dim. conv. DALI Prod. code		
						L	B	H							
EIHL-S-L 154/410-840 SM	1xL-TUBE-B 33 W	4047	38	106	840	1248	185	89	950	-	1229	165	1 2 4 6	0850582	0860582
EIHL-S-L 180/935-840 SM	1xL-TUBE-B 58 W	8050	67	120	840	1548	185	89	1250	-	1529	165	1 2 4 6	0850642	0860642
EIHL-S-L 254/820-840 SM	2xL-TUBE-B 33 W	8093	76	106	840	1248	312	89	950	132	1229	292	1 2 4 6	0850584	0860584
EIHL-S-L 280/1870-840 SM	2xL-TUBE-B 58 W	16101	134	120	840	1548	312	81	1250	132	1529	292	1 2 4 6	0850643	0860643
EIHL-S-L 324/600-840 SM	3xL-TUBE-B 14 W	-tba-	-tba-	-tba-	840	624	624	89	400	400	604	604	1 2 4	0850586	0860586
EIHL-S-L 354/1230-840 SM	3xL-TUBE-B 33 W	12140	114	106	840	1248	485	89	950	298	1229	465	1 2 4 6	0850587	0860587
EIHL-S-L 380/2520-840 SM	3xL-TUBE-B 51 W	21697	176	123	840	1548	485	81	1250	298	1529	465	1 2 4 6	0850644	0860644
EIHL-S-L 424/800-840 SM	4xL-TUBE-B 14 W	-tba-	-tba-	-tba-	840	624	624	89	435	400	604	604	1 2 4	0850589	0860589
EIHL-S-L 454/1640-840 SM	4xL-TUBE-B 33 W	16187	152	106	840	1248	624	89	950	435	1229	604	1 2 4 6	0850590	0860590
EIHL-S-L 480/3360-840 SM	4xL-TUBE-B 51 W	28930	235	123	840	1548	624	81	1250	435	1529	604	1 2 4 6	0850645	0860645

\* Ceiling cut-out

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

EIHLS-L 380 SB



### EIHLS-L ... SB

Panel SB made of clear PMMA, reflector made of high-reflectance, matt anodised super-purity aluminium with silver coating, symmetric beam.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency	Luminous colour	L	B	Dimens. [mm]			LE*	BE*	Ceiling type	el. conv. Prod. code	dim. conv. DALI Prod. code
								H	A1	A2					
EIHLS-L 154/410-840 SB	1xL-TUBE-B 33 W	3793	38	99	840	1248	185	89	950	-	1229	165	1 2 4 6	0850454	0860454
EIHLS-L 180/935-840 SB	1xL-TUBE-B 58 W	7545	67	112	840	1548	185	89	1250	-	1529	165	1 2 4 6	0850634	0860634
EIHLS-L 254/820-840 SB	2xL-TUBE-B 33 W	7586	76	99	840	1248	312	89	950	132	1229	292	1 2 4 6	0850456	0860456
EIHLS-L 280/1870-840 SB	2xL-TUBE-B 58 W	15091	134	112	840	1548	312	81	1250	132	1529	292	1 2 4 6	0850635	0860635
EIHLS-L 324/600-840 SB	3xL-TUBE-B 14 W	-tba-	-tba-	-tba-	840	624	624	89	400	400	604	604	1 2 4	0850458	0860458
EIHLS-L 354/1230-840 SB	3xL-TUBE-B 33 W	11379	114	99	840	1248	485	89	950	298	1229	465	1 2 4 6	0850459	0860459
EIHLS-L 380/2520-840 SB	3xL-TUBE-B 51 W	20336	176	115	840	1548	485	81	1250	298	1529	465	1 2 4 6	0850636	0860636
EIHLS-L 424/800-840 SB	4xL-TUBE-B 14 W	-tba-	-tba-	-tba-	840	624	624	89	435	400	604	604	1 2 4	0850461	0860461
EIHLS-L 454/1640-840 SB	4xL-TUBE-B 33 W	15172	152	99	840	1248	624	89	950	435	1229	604	1 2 4 6	0850462	0860462
EIHLS-L 480/3360-840 SB	4xL-TUBE-B 51 W	27115	235	115	840	1548	624	81	1250	435	1529	604	1 2 4 6	0850637	0860637

\* Ceiling cut-out

EIHLS-L 280 OS



### EIHLS-L ... OS

Panel OS made of opal PMMA, reflector made of high-reflectance, matt anodised super-purity aluminium with silver coating, symmetric beam.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency	Luminous colour	L	B	Dimens. [mm]			LE*	BE*	Ceiling type	el. conv. Prod. code	dim. conv. DALI Prod. code
								H	A1	A2					
EIHLS-L 154/410-840 OS	1xL-TUBE-B 33 W	2881	38	75	840	1248	185	89	950	-	1229	165	1 2 4 6	0850464	0860464
EIHLS-L 180/935-840 OS	1xL-TUBE-B 58 W	5732	67	85	840	1548	185	89	1250	-	1529	165	1 2 4 6	0850630	0860630
EIHLS-L 254/820-840 OS	2xL-TUBE-B 33 W	5762	76	75	840	1248	312	89	950	132	1229	292	1 2 4 6	0850466	0860466
EIHLS-L 280/1870-840 OS	2xL-TUBE-B 58 W	14436	134	107	840	1548	312	81	1250	132	1529	292	1 2 4 6	0850631	0860631
EIHLS-L 324/600-840 OS	3xL-TUBE-B 14 W	-tba-	-tba-	-tba-	840	624	624	89	400	400	604	604	1 2 4	0850468	0860468
EIHLS-L 354/1230-840 OS	3xL-TUBE-B 33 W	8643	114	75	840	1248	485	89	950	298	1229	465	1 2 4 6	0850469	0860469
EIHLS-L 380/2520-840 OS	3xL-TUBE-B 51 W	19454	176	110	840	1548	485	81	1250	298	1529	465	1 2 4 6	0850632	0860632
EIHLS-L 424/800-840 OS	4xL-TUBE-B 14 W	-tba-	-tba-	-tba-	840	624	624	89	435	400	604	604	1 2 4	0850471	0860471
EIHLS-L 454/1640-840 OS	4xL-TUBE-B 33 W	11524	152	75	840	1248	624	89	950	435	1229	604	1 2 4 6	0850472	0860472
EIHLS-L 480/3360-840 OS	4xL-TUBE-B 51 W	25939	235	110	840	1548	624	81	1250	435	1529	604	1 2 4 6	0850633	0860633

\* Ceiling cut-out

EIHLS-L 380 W



### EIHLS-L ... W

Panel made of clear PMMA, white coated louvre W. Reflector made of high-reflectance, matt anodised super-purity aluminium with silver coating, symmetric beam.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency	Luminous colour	L	B	Dimens. [mm]			LE*	BE*	Ceiling type	el. conv. Prod. code	dim. conv. DALI Prod. code
								H	A1	A2					
EIHLS-L 154/410-840 W	1xL-TUBE-B 33 W	3619	38	95	840	1248	185	89	950	-	1229	165	1 2 4 6	0850474	0860474
EIHLS-L 180/935-840 W	1xL-TUBE-B 58 W	7200	67	107	840	1548	185	89	1250	-	1529	165	1 2 4 6	0850638	0860638
EIHLS-L 254/820-840 W	2xL-TUBE-B 33 W	7238	76	95	840	1248	312	89	950	132	1229	292	1 2 4 6	0850476	0860476
EIHLS-L 280/1870-840 W	2xL-TUBE-B 58 W	12679	134	94	840	1548	312	81	1250	132	1529	292	1 2 4 6	0850639	0860639
EIHLS-L 324/600-840 W	3xL-TUBE-B 14 W	-tba-	-tba-	-tba-	840	624	624	89	400	400	604	604	1 2 4	0850478	0860478
EIHLS-L 354/1230-840 W	3xL-TUBE-B 33 W	10857	114	95	840	1248	485	89	950	298	1229	465	1 2 4 6	0850479	0860479
EIHLS-L 380/2520-840 W	3xL-TUBE-B 51 W	19404	176	110	840	1548	485	81	1250	298	1529	465	1 2 4 6	0850640	0860640
EIHLS-L 424/800-840 W	4xL-TUBE-B 14 W	-tba-	-tba-	-tba-	840	624	624	89	435	400	604	604	1 2 4	0850481	0860481
EIHLS-L 454/1640-840 W	4xL-TUBE-B 33 W	14476	152	95	840	1248	624	89	950	435	1229	604	1 2 4 6	0850482	0860482
EIHLS-L 480/3360-840 W	4xL-TUBE-B 51 W	25872	235	110	840	1548	624	81	1250	435	1529	604	1 2 4 6	0850641	0860641

\* Ceiling cut-out

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.



## Accessories

Model	Description	Prod. code
<sup>1)</sup> 10-127	Fixing kit for trim strip ceilings	0210127
10-163	Universal IP54 fixing kit for 23 to 55mm clamping thickness	0210163
10-174	Universal IP54 fixing kit for 45 to 80mm clamping thickness	0210174
10-780	Fixing kit EBR... IP54 for OWA TECTA S31, height 19.5 mm	0210780
ZBS-SP.36-30	Fixing kit .36W f. hall plank ceilings, trunk. ht. 30 mm	0210993
ZBS-SP.36-35	Fixing kit .36W f. hall plank ceilings, trunk. ht. 35 mm	0210994
ZBS-SP.36-40	Fixing kit .36W f. hall plank ceilings, trunk. ht. 40 mm	0210995
ZBS-SP.58-30	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 30 mm	0210076
ZBS-SP.58-35	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 35 mm	0210078
ZBS-SP.58-40	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 40 mm	0210079
ZGH	Rubber suction device for removal of the protective glass	0203626
ZRO	Frame opener	0204003

<sup>1)</sup> With this protection class IP 20 fixing set at the ceiling side.

# EBRE9-R ... OSR/PSR for RIDI-TUBE lamp

## Recessed luminaire series EBRE9-R ... OSR/PSR (modular 625x625)

**Design:** Recessed single luminaire, IP54 protection rating on the room side, in the ceiling IP 20, for 625 x 625 modular ceilings. Rigid galvanised steel luminaire housing with white powder coat finish, colour similar to RAL 9016. Frame retained in the luminaire body by spring clips at four brackets, hinges down on both sides. Gasket glued all round into the luminaire rim to ensure seal to the ceiling. For RIDI-TUBE lamps (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

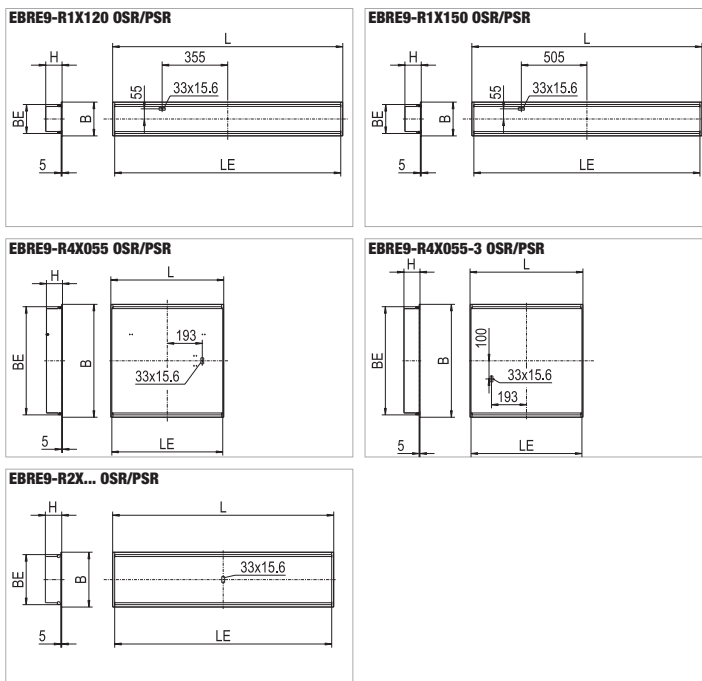
- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** For mounting in different ceiling systems using suitable fixing kits or lay-in installation in exposed trunking ceiling systems with lay-in ceiling tiles. No additional fixing accessories are required for this.

**Note:** Luminaires comply with the D symbol requirements according to the new standard and FF according to the old standard.



acc. to DIN EN 60598/VDE 0711



### Non-standard design:

- Versions with toughened safety glass panel
- Integration of emergency lighting elements

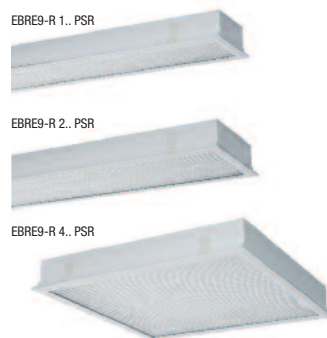


### EBRE9-R ... OSR

Frame OSR in extruded aluminium with laid-in opal acrylic panel in UV-stabilised PMMA. With gaskets to ensure compliance with protection rating. For lamp RIDI-TUBE, recommended cover: matt

Model	Lamps max.	R-TUBE Category	L	Dimens. (mm)			BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	LE*				
EBRE9-R1X120/25xx-OSR	1xR-TUBE 25 W	G	1247	183	95	1229	165	1 2 4 6	0850281	0860281
EBRE9-R1X150/40xx-OSR	1xR-TUBE 40 W	J	1547	183	95	1529	165	1 2 4 6	0850283	0860283
EBRE9-R2X120/25xx-OSR	2xR-TUBE 25 W	G	1247	310	95	1229	292	1 2 4 6	0850285	0860285
EBRE9-R2X150/40xx-OSR	2xR-TUBE 40 W	J	1547	310	95	1529	292	1 2 4 6	0850287	0860287
EBRE9-R4X055/15xx-OSR	4xR-TUBE 15 W	A, B	622	622	95	604	604	1 2 4	0850289	0860289
EBRE9-R4X055-3/10xx-OSR	3xR-TUBE 10 W	A	622	622	95	604	604	1 2 4	0850288	0860288

\* Ceiling cut-out



### EBRE9-R ... PSR

Frame PSR in extruded aluminium with laid-in opal prismatic acrylic panel in UV-stabilised PMMA featuring an optically effective internal prismatic structure. With gaskets to ensure compliance with protection rating. For lamp RIDI-TUBE, recommended cover: clear

Model	Lamps max.	R-TUBE Category	L	Dimens. (mm)			BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	LE*				
EBRE9-R1X120/25xx-PSR	1xR-TUBE 25 W	G	1247	183	95	1229	165	1 2 4 6	0850291	0860291
EBRE9-R1X150/40xx-PSR	1xR-TUBE 40 W	J	1547	183	95	1529	165	1 2 4 6	0850293	0860293
EBRE9-R2X120/25xx-PSR	2xR-TUBE 25 W	G	1247	310	95	1229	292	1 2 4 6	0850295	0860295
EBRE9-R2X150/40xx-PSR	2xR-TUBE 40 W	J	1547	310	95	1529	292	1 2 4 6	0850297	0860297
EBRE9-R4X055/15xx-PSR	4xR-TUBE 15 W	A, B	622	622	95	604	604	1 2 4	0850299	0860299
EBRE9-R4X055-3/10xx-PSR	3xR-TUBE 10 W	A	622	622	95	604	604	1 2 4	0850298	0860298

\* Ceiling cut-out

## Accessories



Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-163	Universal IP54 fixing kit for 23 to 55mm clamping thickness	0210163
10-174	Universal IP54 fixing kit for 45 to 80mm clamping thickness	0210174
10-770	Fixing clip EBR...clamping thicken. T16: 12-25mm, T26: 12-50mm	0210770
10-780	Fixing kit EBR... IP54 for OWA TECTA S31, height 19.5 mm	0210780
ZGH	Rubber suction device for removal of the protective glass	0203626
ZRO	Frame opener	0204003



## Recessed luminaire series EBRME9-R ... OSR/PSR (modular 600x600)

**Design:** Recessed single luminaire, IP54 protection rating on the room side, in the ceiling IP 20, for 600 x 600 modular ceilings. Rigid galvanised steel luminaire housing with white powder coat finish, colour similar to RAL 9016. Frame retained in the luminaire body by spring clips at four brackets, hinges down on both sides. Gasket glued all round into the luminaire rim to ensure seal to the ceiling. For RIDI-TUBE lamps (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

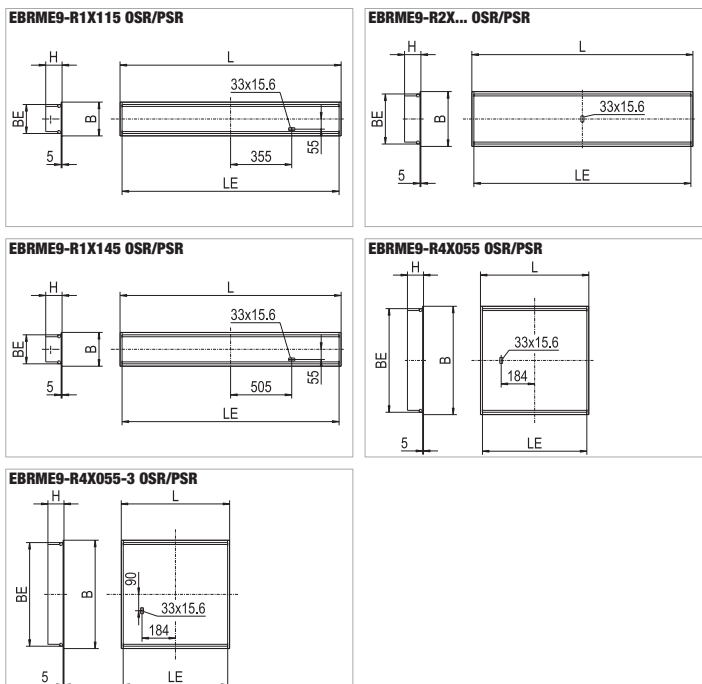
- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Recessed mounting in different trunking ceiling systems with suitable fixing kit, or lay-in mounting in exposed trunking ceiling systems and lay-in ceiling panels. For lay-in mounting, no additional fixing accessories are required.

**Note:** Luminaires comply with the D symbol requirements according to the new standard and FF according to the old standard.



acc. to DIN EN 60598/VDE 0711



### Non-standard design:

- Versions with toughened safety glass panel
- Integration of emergency lighting elements

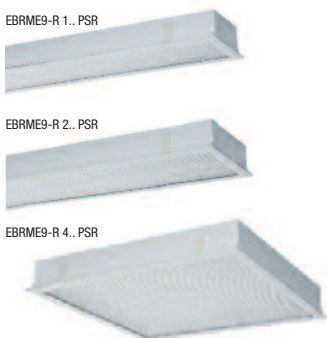


### EBRME9-R ... OSR

Frame OSR in extruded aluminium with laid-in opal acrylic panel in UV-stabilised PMMA. With gaskets to ensure compliance with protection rating. For lamp RIDI-TUBE, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm] B H LE*	BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
EBRME9-R1X115/30xx-OSR	1xR-TUBE 30 W	E, F	1197	183 95 1179	165	1 2 4 6	0850300	0860300
EBRME9-R1X145/35xx-OSR	1xR-TUBE 35 W	H, I	1497	183 95 1479	165	1 2 4 6	0850302	0860302
EBRME9-R2X115/30xx-OSR	2xR-TUBE 30 W	E, F	1197	297 95 1179	279	1 2 4 6	0850304	0860304
EBRME9-R2X145/35xx-OSR	2xR-TUBE 35 W	H, I	1497	297 95 1479	279	1 2 4 6	0850306	0860306
EBRME9-R4X055/15xx-OSR	4xR-TUBE 15 W	A, B	597	597 95 579	579	1 2 4	0850309	0860309
EBRME9-R4X055-3/10xx-OSR	3xR-TUBE 10 W	A	597	597 95 579	579	1 2 4	0850308	0860308

\* Ceiling cut-out



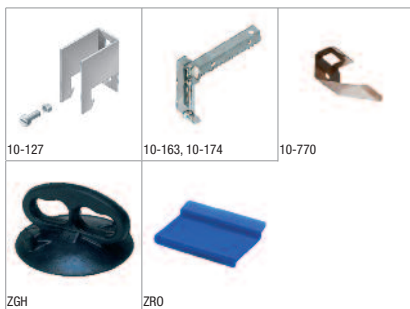
### EBRME9-R ... PSR

Frame PSR in extruded aluminium with laid-in opal prismatic acrylic panel in UV-stabilised PMMA featuring an optically effective internal prismatic structure. With gaskets to ensure compliance with protection rating. For lamp RIDI-TUBE, recommended cover: clear.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm] B H LE*	BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
EBRME9-R1X115/30xx-PSR	1xR-TUBE 30 W	E, F	1197	183 95 1179	165	1 2 4 6	0850310	0860310
EBRME9-R1X145/35xx-PSR	1xR-TUBE 35 W	H, I	1497	183 95 1479	165	1 2 4 6	0850312	0860312
EBRME9-R2X115/30xx-PSR	2xR-TUBE 30 W	E, F	1197	297 95 1179	279	1 2 4 6	0850314	0860314
EBRME9-R2X145/35xx-PSR	2xR-TUBE 35 W	H, I	1497	297 95 1479	279	1 2 4 6	0850316	0860316
EBRME9-R4X055/15xx-PSR	4xR-TUBE 15 W	A, B	597	597 95 579	579	1 2 4	0850319	0860319
EBRME9-R4X055-3/10xx-PSR	3xR-TUBE 10 W	A	597	597 95 579	579	1 2 4	0850318	0860318

\* Ceiling cut-out

## Accessories



Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-163	Universal IP54 fixing kit for 23 to 55mm clamping thickness	0210163
10-174	Universal IP54 fixing kit for 45 to 80mm clamping thickness	0210174
10-770	Fixing clip EBR...clamping thicken. T16: 12-25mm, T26: 12-50mm	0210770
10-780	Fixing kit EBR... IP54 for OWA TECTA S31, height 19.5 mm	0210780
ZGH	Rubber suction device for removal of the protective glass	0203626
ZRO	Frame opener	0204003

# EBRE-LED ... OSR / MPOR / MPSR

## Recessed luminaire series EBRE-LED ... OSR / MPOR / MPSR (modular 625x625)

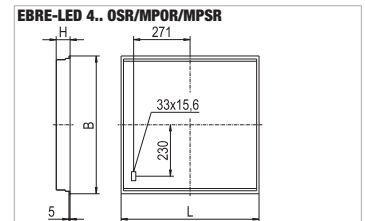
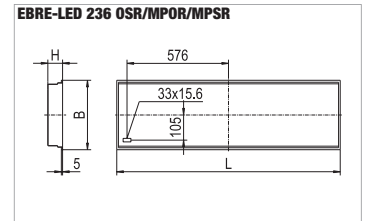
**Design:** Recessed LED single luminaire for 625x625 modular ceilings. Protection IP54 rating on the room side, IP20 on the ceiling side. Rigid luminaire housing in white powder-coated galvanised steel, colour similar to RAL9016. Frame retained in the luminaire body by spring clips at four brackets, hinges down on both sides for automatic connection to the earth conductor. Seals to ensure compliance with the IP rating and surrounding gasket glued in the luminaire rim to seal against the ceiling. LED modules formed as a flat board. Mid power LEDs for even illumination and maximum efficiency. Total light flux of the LED modules up to 5200 lm. LED drivers prefitted in luminaire housing. SELV-conforming operation of LED modules with less than 60 Volts.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Recessed mounting in different trunking ceiling systems with suitable fixing kit, or lay-in mounting in exposed trunking ceiling systems and lay-in ceiling panels. For lay-in mounting, no additional fixing accessories are required.



### Non-standard design:

- Versions with toughened safety glass panel
- Integration of emergency lighting elements
- Versions with Tunable White (TW)

EBRE-LED 4.. OSR



### EBRE-LED ... OSR

Frame OSR in extruded aluminium with laid-in opal acrylic panel in UV-stabilised PMMA. Panel made of high-grade material with matt finish on both sides with high degree of transmission of 72%. Homogenous illumination without visible LED spots.

#### Note on "Food Hygiene Act":

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				LE*	BE*	el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	LE*				
EBRE-LED 236/2700-840 OSR	2xLED-M 7 W	2093	16	130	840	1247	310	90	1229	292	1 2 4 6	0822841	0832841
EBRE-LED 236/5200-840 OSR	2xLED-M 14 W	4030	32	125	840	1247	310	90	1229	292	1 2 4 6	0822817	0832817
EBRE-LED 418/2700-840 OSR	2xLED-M 7 W	2179	16	136	840	622	622	90	604	604	1 2 4	0822837	0832837
EBRE-LED 418/5200-840 OSR	2xLED-M 14 W	4196	32	131	840	622	622	90	604	604	1 2 4	0822829	0832829

\* Ceiling cut-out

EBRE-LED ... MPOR



### EBRE-LED ... MPOR

Frame MPOR in extruded aluminium with laid-in opal acrylic microprism panel combined with panel in UV-stabilised PMMA. Opal panel in high-grade material with matt finish on both sides with high degree of transmission of 72%. Microprism panel with inward embossed prisms. Homogenous illumination without visible LED spots.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				LE*	BE*	el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	LE*				
EBRE-LED 414/5200-840 MPOR	2xLED-M 14 W	3640	32	113	840	622	622	90	604	604	1 2 4	0822916	0832916

\* Ceiling cut-out

EBRE-LED ... MPSR



### EBRE-LED ... MPSR

Frame MPSR in extruded aluminium with laid-in opal acrylic microprism panel combined with panel in UV-stabilised PMMA. Microprism panel with outward embossed prisms. LEDs visible as circles.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				LE*	BE*	el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	LE*				
EBRE-LED 414/5200-840 MPSR	2xLED-M 14 W	3926	32	122	840	622	622	90	604	604	1 2 4	0822918	0832918

\* Ceiling cut-out

## Accessories

Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-163	Universal IP54 fixing kit for 23 to 55mm clamping thickness	0210163
10-174	Universal IP54 fixing kit for 45 to 80mm clamping thickness	0210174
10-770	Fixing clip EBR..clamping thckn. T16: 12-25mm, T26: 12-50mm	0210770
10-780	Fixing kit EBR... IP54 for OWA TECTA S31, height 19.5 mm	0210780
ZGH	Rubber suction device for removal of the protective glass	0203626
ZRO	Frame opener	0204003

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

**Recessed luminaire series EBRME-LED ... OSR / MPOR / MPSR (modular 600x600)**

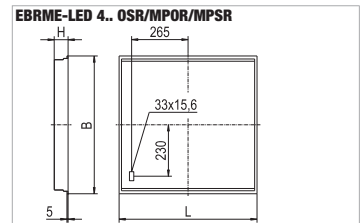
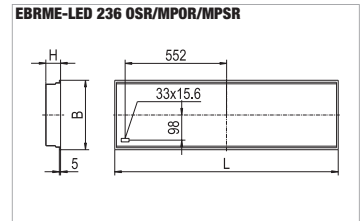
**Design:** Recessed LED single luminaire for 600x600 modular ceilings. Protection IP54 rating on the room side, IP20 on the ceiling side. Rigid luminaire housing in white powder-coated galvanised steel, colour similar to RAL9016. Frame retained in the luminaire body by spring clips at four brackets, hinges down on both sides for automatic connection to the earth conductor. Seals to ensure compliance with the IP rating and Surrounding gasket glued in the luminaire rim to seal against the ceiling. LED modules formed as a flat board. Mid power LEDs for even illumination and maximum efficiency. Total light flux of the LED modules up to 5200 lm. LED drivers prefitted in luminaire housing. SELV-conforming operation of LED modules with less than 60 Volts.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Recessed mounting in different trunking ceiling systems with suitable fixing kit, or lay-in mounting in exposed trunking ceiling systems and lay-in ceiling panels. For lay-in mounting, no additional fixing accessories are required.



**Non-standard design:**

- Versions with toughened safety glass panel
- Integration of emergency lighting elements
- Versions with Tunable White (TW)

EBRME-LED 4. OSR



**EBRME-LED ... OSR**

Frame OSR in extruded aluminium with laid-in opal acrylic panel in UV-stabilised PMMA. With gaskets to ensure compliance with protection rating. Panel made of high-grade material with matt finish on both sides with high degree of transmission of 72%. Homogenous illumination without visible LED spots.

**Note on "Food Hygiene Act":**

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code	
						L	B	H	LE*	BE*			Ceiling type
EBRME-LED 236/2700-840 OSR	2xLED-M 7 W	2030	16	126	840	1197	297	90	1179	279	1 2 4 6	0822845	0832845
EBRME-LED 236/5200-840 OSR	2xLED-M 14 W	3910	32	122	840	1197	297	90	1179	279	1 2 4 6	0822821	0832821
EBRME-LED 418/2700-840 OSR	2xLED-M 7 W	2114	16	132	840	597	597	90	579	579	1 2 4	0822849	0832849
EBRME-LED 418/5200-840 OSR	2xLED-M 14 W	4072	32	127	840	597	597	90	579	579	1 2 4	0822830	0832830

\* Ceiling cut-out

EBRME-LED ... MPOR



**EBRME-LED ... MPOR**

Frame MPOR in extruded aluminium with laid-in opal acrylic microprism panel combined with panel in UV-stabilised PMMA. Opal panel in high-grade material with matt finish on both sides with high degree of transmission of 72%. Microprism panel with inward embossed prisms. Homogenous illumination without visible LED spots.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code	
						L	B	H	LE*	BE*			Ceiling type
EBRME-LED 414/5200-840 MPOR	2xLED-M 15 W	3541	32	110	840	597	597	90	579	579	1 2 4	0822920	0832920

\* Ceiling cut-out

EBRME-LED ... MPSR



**EBRME-LED ... MPSR**

Frame MPSR in extruded aluminium with laid-in opal acrylic microprism panel combined with panel in UV-stabilised PMMA. Microprism panel with outward embossed prisms. LEDs visible as circles

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code	
						L	B	H	LE*	BE*			Ceiling type
EBRME-LED 414/5200-840 MPSR	2xLED-M 15 W	3806	32	118	840	597	597	90	579	579	1 2 4	0822922	0832922

\* Ceiling cut-out

**Accessories**



Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-163	Universal IP54 fixing kit for 23 to 55mm clamping thickness	0210163
10-174	Universal IP54 fixing kit for 45 to 80mm clamping thickness	0210174
10-770	Fixing clip EBR...clamping thckn. T16: 12-25mm, T26: 12-50mm	0210770
10-780	Fixing kit EBR... IP54 for OWA TECTA S31, height 19.5 mm	0210780
ZGH	Rubber suction device for removal of the protective glass	0203626
ZRO	Frame opener	0204003

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

# EBRE9-R ... OSD/PSD RIDI-TUBE lamp

## Recessed luminaire series EBRE9-R ... OSD/PSD (modular 625x625)

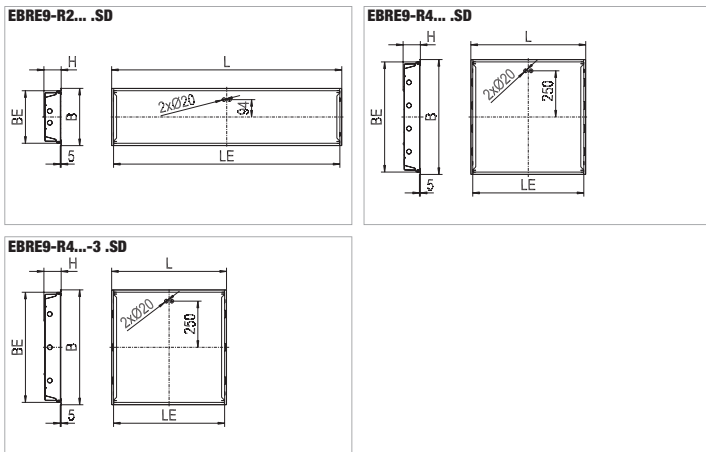
**Design:** Recessed single luminaire, IP54 protection rating, for **625 x 625 modular ceilings**. Rigid galvanised steel luminaire housing with white powder coat finish, colour similar to RAL9016. The luminaire body houses 2 gear trays for the electrical components and fixing brackets for the aluminium frame. Frame in extruded aluminium with panel in UV stabilised PMMA. Frame retained in the luminaire body by spring clips, hinges down on both sides. Gasket glued all round into the luminaire rim to ensure seal to the ceiling. For RIDI-TUBE lamps (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** For mounting in different ceiling systems using suitable fixing kits or lay-in installation in exposed trunking ceiling systems with lay-in ceiling tiles. No additional fixing accessories are required for this.



### Non-standard design:

- Versions with toughened safety glass panel
- Integration of emergency lighting elements



acc. to DIN EN 60598/VDE 0711

EBRE9-R 2X ... OSD

EBRE9-R 4X055 ... OSD

### EBRE9-R ... OSD

Frame OSD made of extruded sectional aluminium with laid-in opal panel made of UV stabilised acrylic (PMMA). With gaskets to ensure compliance with the IP protection rating. For lamp RIDI-TUBE, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]				BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H	LE*				
EBRE9-R2X115/30xx-OSD	2xR-TUBE 30 W	E, F	1247	310	95	1229	292	1 2 4	0850227	0860227
EBRE9-R2X115-1/25xx-OSD	1xR-TUBE 30 W	E, F	1247	310	95	1229	292	1 2 4	0850228	0860228
EBRE9-R2X145/35xx-OSD	2xR-TUBE 35 W	H, I	1547	310	95	1529	292	1 2 4	0850229	0860229
EBRE9-R2X145-1/35xx-OSD	1xR-TUBE 35 W	H, I	1547	310	95	1529	292	1 2 4	0850103	0860103
EBRE9-R4X055/15xx-OSD	4xR-TUBE 15 W	A, B	622	622	95	614	604	1 2 4	0850049	0860049
EBRE9-R4X055-3/10xx-OSD	3xR-TUBE 10 W	A	622	622	95	614	604	1 2 4	0850233	0860233
EBRE9-R4X115/30xx-OSD	4xR-TUBE 30 W	E, F	1247	622	95	1229	604	1 2 4	0850234	0860234
EBRE9-R4X115-3/30xx-OSD	3xR-TUBE 30 W	E, F	1247	622	95	1229	604	1 2 4	0850235	0860235

\* Ceiling cut-out

EBRE9-R 2X ... PSD

EBRE9-R 4X055 ... PSD

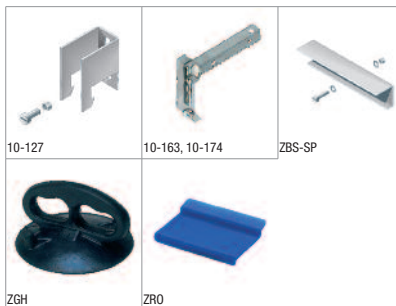
### EBRE9-R ... PSD

Frame PSD constructed of extruded aluminium with laid-in prismatic panel of UV stabilised acrylic (PMMA) featuring an optically effective internal prismatic structure. With gaskets to ensure compliance with the IP protection rating. For lamp RIDI-TUBE, recommended cover: clear.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]				BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H	LE*				
EBRE9-R2X115/30xx-PSD	2xR-TUBE 30 W	E, F	1247	310	95	1229	292	1 2 4	0850240	0860240
EBRE9-R2X115-1/25xx-PSD	1xR-TUBE 30 W	E, F	1247	310	95	1229	292	1 2 4	0850238	0860238
EBRE9-R2X145/35xx-PSD	2xR-TUBE 35 W	H, I	1547	310	95	1529	292	1 2 4	0850007	0860007
EBRE9-R2X145-1/35xx-PSD	1xR-TUBE 35 W	H, I	1547	310	95	1529	292	1 2 4	0850241	0860241
EBRE9-R4X055/15xx-PSD	4xR-TUBE 15 W	A, B	622	622	95	614	604	1 2 4	0850244	0860244
EBRE9-R4X055-3/10xx-PSD	3xR-TUBE 10 W	A	622	622	95	614	604	1 2 4	0850243	0860243
EBRE9-R4X115/30xx-PSD	4xR-TUBE 30 W	E, F	1247	622	95	1229	604	1 2 4	0850246	0860246
EBRE9-R4X115-3/30xx-PSD	3xR-TUBE 30 W	E, F	1247	622	95	1229	604	1 2 4	0850245	0860245

\* Ceiling cut-out

## Accessories



Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-163	Universal IP54 fixing kit for 23 to 55mm clamping thickness	0210163
10-174	Universal IP54 fixing kit for 45 to 80mm clamping thickness	0210174
10-780	Fixing kit EBR... IP54 for OWA TECTA S31, height 19.5 mm	0210780
ZBS-SP-36-30	Fixing kit .36W f. hall plank ceilings, trunk. ht. 30 mm	0210993
ZBS-SP-36-35	Fixing kit .36W f. hall plank ceilings, trunk. ht. 35 mm	0210994
ZBS-SP-36-40	Fixing kit .36W f. hall plank ceilings, trunk. ht. 40 mm	0210995
ZBS-SP-58-30	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 30 mm	0210076
ZBS-SP-58-35	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 35 mm	0210078
ZBS-SP-58-40	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 40 mm	0210079
ZGH	Rubber suction device for removal of the protective glass	0203626
ZRO	Frame opener	0204003

## Recessed luminaire series EBRE9-R ... OSD/PSD (modular 600x600)

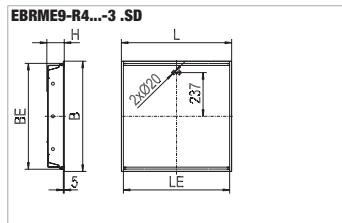
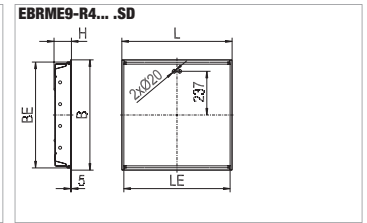
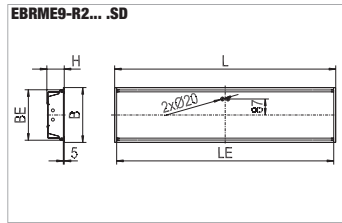
**Design:** Recessed single luminaire, IP54 protection rating, for **600 x 600 modular ceilings**. Rigid galvanised steel luminaire housing with white powder coat finish, colour similar to RAL9016. The luminaire body houses 2 gear trays for the electrical components and fixing brackets for the aluminium frame. Frame in extruded aluminium with panel in UV stabilised PMMA. Frame retained in the luminaire body by spring clips, hinges down on both sides. Gasket glued all round into the luminaire rim to ensure seal to the ceiling. For RIDI-TUBE lamps (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

**Electrical versions:**

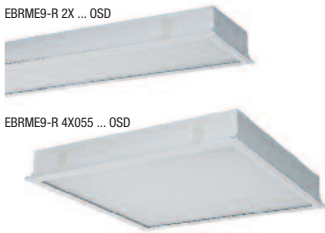
- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** For mounting in different ceiling systems using suitable fixing kits, or lay-in installation in exposed trunking ceiling systems with lay-in ceiling tiles. No additional fixing accessories are required for this.



**Non-standard design:**

- Versions with toughened safety glass panel
- Integration of emergency lighting elements

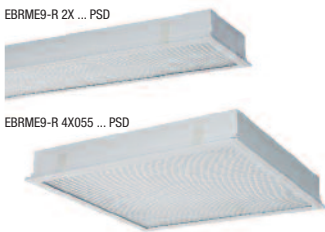


**EBRME9-R ... OSD**

Frame OSD constructed of extruded aluminium with laid-in opal panel of UV-stabilised acrylic (PMMA). With gaskets to ensure compliance with the IP protection rating. For lamp RIDI-TUBE, recommended cover: matt

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	LE*				
EBRME9-R2X115/30xx-OSD	2xR-TUBE 30 W	E, F	1197	297	95	1179	279	1 2 A	0850320	0860320
EBRME9-R2X115-1/30xx-OSD	1xR-TUBE 30 W	E, F	1197	297	95	1179	279	1 2 A	0850326	0860326
EBRME9-R2X145/35xx-OSD	2xR-TUBE 35 W	H, I	1497	297	95	1479	279	1 2 A	0850322	0860322
EBRME9-R2X145-1/35xx-OSD	1xR-TUBE 35 W	H, I	1497	297	95	1479	279	1 2 A	0850328	0860328
EBRME9-R4X055/15xx-OSD	4xR-TUBE 15 W	A, B	597	597	95	579	579	1 2 A	0850331	0860331
EBRME9-R4X055-3/10xx-OSD	3xR-TUBE 10 W	A	597	597	95	579	579	1 2 A	0850325	0860325
EBRME9-R4X115/30xx-OSD	4xR-TUBE 30 W	E, F	1197	597	95	1179	579	1 2 A	0850332	0860332
EBRME9-R4X115-3/30xx-OSD	3xR-TUBE 30 W	E, F	1197	597	95	1179	579	1 2 A	0850333	0860333

\* Ceiling cut-out



**EBRME9-R ... PSD**

Frame PSD constructed of extruded aluminium with laid-in prismatic panel of UV-stabilised acrylic (PMMA), featuring an optically effective prismatic structure. With gaskets to ensure compliance with the IP protection rating. For lamp RIDI-TUBE, recommended cover: clear.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			BE*	Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	LE*				
EBRME9-R2X115/30xx-PSD	2xR-TUBE 30 W	E, F	1197	297	95	1179	279	1 2 A	0850250	0860250
EBRME9-R2X115-1/30xx-PSD	1xR-TUBE 30 W	E, F	1197	297	95	1179	279	1 2 A	0850249	0860249
EBRME9-R2X145/35xx-PSD	2xR-TUBE 35 W	H, I	1497	297	95	1479	279	1 2 A	0850254	0860254
EBRME9-R2X145-1/35xx-PSD	1xR-TUBE 35 W	H, I	1497	297	95	1479	279	1 2 A	0850253	0860253
EBRME9-R4X055/15xx-PSD	4xR-TUBE 15 W	A, B	597	597	95	579	579	1 2 A	0850258	0860258
EBRME9-R4X055-3/10xx-PSD	3xR-TUBE 10 W	A	597	597	95	579	579	1 2 A	0850257	0860257
EBRME9-R4X115/30xx-PSD	4xR-TUBE 30 W	E, F	1197	597	95	1179	579	1 2 A	0850260	0860260
EBRME9-R4X115-3/30xx-PSD	3xR-TUBE 30 W	E, F	1197	597	95	1179	579	1 2 A	0850259	0860259

\* Ceiling cut-out



**Accessories**

Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-163	Universal IP54 fixing kit for 23 to 55mm clamping thickness	0210163
10-174	Universal IP54 fixing kit for 45 to 80mm clamping thickness	0210174
10-780	Fixing kit EBR... IP54 for OWA TECTA S31, height 19.5 mm	0210780
ZBS-SP.36-30	Fixing kit .36W f. hall plank ceilings, trunk. ht. 30 mm	0210993
ZBS-SP.36-35	Fixing kit .36W f. hall plank ceilings, trunk. ht. 35 mm	0210994
ZBS-SP.36-40	Fixing kit .36W f. hall plank ceilings, trunk. ht. 40 mm	0210995
ZBS-SP.58-30	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 30 mm	0210076
ZBS-SP.58-35	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 35 mm	0210078
ZBS-SP.58-40	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 40 mm	0210079
ZGH	Rubber suction device for removal of the protective glass	0203626
ZRO	Frame opener	0204003

**Recessed luminaire series EBRE-LED ... OSD / MPOD / MPSD (modular 625x625)**

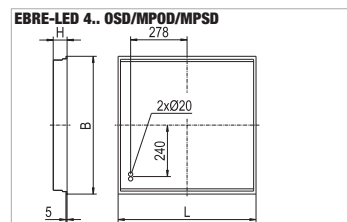
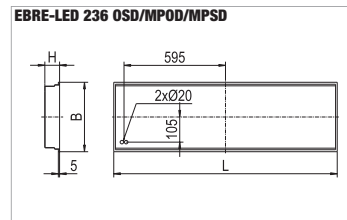
**Design:** Recessed LED single luminaire for 625x625 modular ceilings. Protection rating IP54. Rigid luminaire housing in white powder-coated galvanised steel, colour similar to RAL9016. Frame retained in the luminaire body by spring clips at four brackets, hinges down on both sides for automatic connection to the earth conductor. Gaskets to ensure compliance with the IP rating and Surrounding gasket glued in the luminaire rim to seal against the ceiling. LED modules formed as a flat board. Mid power LEDs for even illumination and maximum efficiency. Total light flux of the LED modules up to 5200 lm. LED drivers prefitted in luminaire housing. SELV-conforming operation of LED modules with less than 60 Volts.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** For mounting in different ceiling systems using suitable fixing kits or lay-in installation in exposed trunking ceiling systems with lay-in ceiling tiles. No additional fixing accessories are required for this.



**Non-standard design:**

- Versions with toughened safety glass panel
- Integration of emergency lighting elements
- Versions with Tunable White (TW)

EBRE-LED 2.. OSD



**EBRE-LED ... OSD**

Frame OSD in extruded sectional aluminium with laid-in opal acrylic panel in UV-stabilised PMMA. Panel made of high-grade material with matt finish on both sides with high degree of transmission of 72%. Homogenous illumination without visible LED spots.

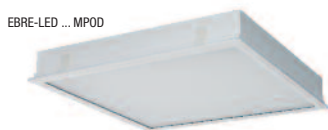
**Note on "Food Hygiene Act":**

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				LE*	BE*	el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	LE*				
EBRE-LED 236/2700-840 OSD	2xLED-M 7 W	2093	16	130	840	1247	310	90	1229	292	1 2 4 6	0822840	0832840
EBRE-LED 236/5200-840 OSD	2xLED-M 14 W	4030	32	125	840	1247	310	90	1229	292	1 2 4 6	0822818	0832818
EBRE-LED 418/2700-840 OSD	2xLED-M 7 W	2179	16	136	840	622	622	90	604	604	1 2 4	0822836	0832836
EBRE-LED 418/5200-840 OSD	2xLED-M 14 W	4196	32	131	840	622	622	90	604	604	1 2 4	0822814	0832814

\* Ceiling cut-out

EBRE-LED ... MPOD



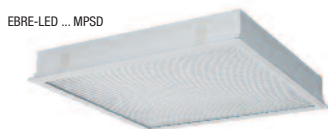
**EBRE-LED ... MPOD**

Frame MPOD in extruded sectional aluminium with laid-in opal acrylic microprism panel combined with panel in UV-stabilised PMMA. Opal panel in high-grade material with matt finish on both sides with high degree of transmission of 72%. Microprism panel with inward embossed prisms. Homogenous illumination without visible LED spots.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				LE*	BE*	el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	LE*				
EBRE-LED 414/5200-840 MPOD	2xLED-M 14 W	3531	32	110	840	622	622	90	604	604	1 2 4	0822917	0832917

\* Ceiling cut-out

EBRE-LED ... MPSD



**EBRE-LED ... MPSD**

Frame MPSD in extruded sectional aluminium with laid-in opal acrylic microprism panel combined with panel in UV-stabilised PMMA. Microprism panel with outward embossed prisms. LEDs visible as circles.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				LE*	BE*	el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	LE*				
EBRE-LED 414/5200-840 MPSD	2xLED-M 14 W	3806	32	118	840	622	622	90	604	604	1 2 4	0822919	0832919

\* Ceiling cut-out

**Accessories**

Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-163	Universal IP54 fixing kit for 23 to 55mm clamping thickness	0210163
10-174	Universal IP54 fixing kit for 45 to 80mm clamping thickness	0210174
10-780	Fixing kit EBR... IP54 for OWA TECTA S31, height 19.5 mm	0210780
ZBS-SP.36-30	Fixing kit .36W f. hall plank ceilings, trunk. ht. 30 mm	0210993
ZBS-SP.36-35	Fixing kit .36W f. hall plank ceilings, trunk. ht. 35 mm	0210994
ZBS-SP.36-40	Fixing kit .36W f. hall plank ceilings, trunk. ht. 40 mm	0210995
ZBS-SP.58-30	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 30 mm	0210076
ZBS-SP.58-35	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 35 mm	0210078
ZBS-SP.58-40	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 40 mm	0210079
ZGH	Rubber suction device for removal of the protective glass	0203626
ZRO	Frame opener	0204003

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

**Recessed luminaire series EBRME-LED ... OSD / MPOD / MPSD (modular 600x600)**

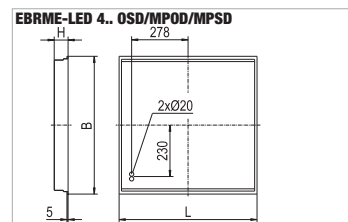
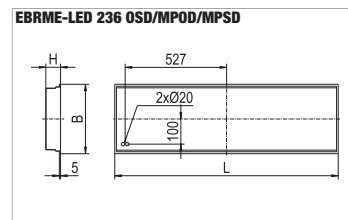
**Design:** Recessed LED single luminaire for 600x600 modular ceilings. Protection rating IP54. Rigid luminaire housing in white powder-coated galvanised steel, colour similar to RAL9016. Frame retained in the luminaire body by spring clips at four brackets, hinges down on both sides for automatic connection to the earth conductor. Gaskets to ensure compliance with the IP rating and Surrounding gasket glued in the luminaire rim to seal against the ceiling. LED modules formed as a flat board. Mid power LEDs for even illumination and maximum efficiency. Total light flux of the LED modules up to 5200 lm. LED drivers prefitted in luminaire housing. SELV-conforming operation of LED modules with less than 60 Volts.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** For mounting in different ceiling systems using suitable fixing kits or lay-in installation in exposed trunking ceiling systems with lay-in ceiling tiles. No additional fixing accessories are required for this.



**Non-standard design:**

- Versions with toughened safety glass panel
- Integration of emergency lighting elements
- Versions with Tunable White (TW)

EBRE-LED 2. OSD



**EBRME-LED ... OSD**

Frame OSD in extruded sectional aluminium with laid-in opal acrylic panel in UV-stabilised PMMA. Panel made of high-grade material with matt finish on both sides with high degree of transmission of 72%. Homogenous illumination without visible LED spots.

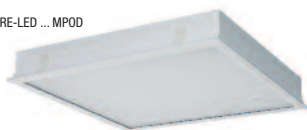
**Note on "Food Hygiene Act":**

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				Ceiling type			el. conv. Prod. code	dim. conv. DALI Prod. code		
						L	B	H	LE*	BE*	1	2			4	6
EBRME-LED 236/2700-840 OSD	2xLED-M 7 W	2030	16	126	840	1197	297	90	1179	279	1	2	4	6	0822844	0832844
EBRME-LED 236/5200-840 OSD	2xLED-M 14 W	3910	32	122	840	1197	297	90	1179	279	1	2	4	6	0822822	0832822
EBRME-LED 418/2700-840 OSD	2xLED-M 7 W	2114	16	132	840	597	597	90	579	579	1	2	4		0822848	0832848
EBRME-LED 418/5200-840 OSD	2xLED-M 14 W	4072	32	127	840	597	597	90	579	579	1	2	4		0822815	0832815

\* Ceiling cut-out

EBRE-LED ... MPOD



**EBRME-LED ... MPOD**

Frame MPOD in extruded sectional aluminium with laid-in opal acrylic microprism panel combined with panel in UV-stabilised PMMA. Opal panel in high-grade material with matt finish on both sides with high degree of transmission of 72%. Microprism panel with inward embossed prisms. Homogenous illumination without visible LED spots.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				Ceiling type			el. conv. Prod. code	dim. conv. DALI Prod. code	
						L	B	H	LE*	BE*	1	2			4
EBRME-LED 414/5200-840 MPOD	2xLED-M 14 W	3437	32	107	840	597	597	90	579	579	1	2	4	0822921	0832921

\* Ceiling cut-out

EBRE-LED ... MPSD



**EBRME-LED ... MPSD**

Frame MPSD in extruded sectional aluminium with laid-in opal acrylic microprism panel combined with panel in UV-stabilised PMMA. Microprism panel with outward embossed prisms. LEDs visible as circles

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				Ceiling type			el. conv. Prod. code	dim. conv. DALI Prod. code	
						L	B	H	LE*	BE*	1	2			4
EBRME-LED 414/5200-840 MPSD	2xLED-M 14 W	3692	32	115	840	597	597	90	579	579	1	2	4	0822923	0832923

\* Ceiling cut-out

**Accessories**

Model	Description	Prod. code
10-127	Fixing kit for trim strip ceilings	0210127
10-163	Universal IP54 fixing kit for 23 to 55mm clamping thickness	0210163
10-174	Universal IP54 fixing kit for 45 to 80mm clamping thickness	0210174
10-780	Fixing kit EBR... IP54 for OWA TECTA S31, height 19.5 mm	0210780
ZBS-SP.36-30	Fixing kit .36W f. hall plank ceilings, trunk. ht. 30 mm	0210993
ZBS-SP.36-35	Fixing kit .36W f. hall plank ceilings, trunk. ht. 35 mm	0210994
ZBS-SP.36-40	Fixing kit .36W f. hall plank ceilings, trunk. ht. 40 mm	0210995
ZBS-SP.58-30	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 30 mm	0210076
ZBS-SP.58-35	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 35 mm	0210078
ZBS-SP.58-40	Fixing kit .58W f. hall plank ceilings, trunk. ht. = 40 mm	0210079
ZGH	Rubber suction device for removal of the protective glass	0203626
ZRO	Frame opener	0204003

LED technology is in a continuous process of further development. The specified efficiency values are provided as an illustrative example and reflect the state of the art at the time of going to print. The latest updated values can be accessed at our website.

# EPF-R for RIDI-TUBE lamp

## Recessed luminaire series EPF-R

**Design:** Panel mounting luminaire, protection rating IP 54. Galvanised steel housing with welded and sealed end pieces, white powder coated, colour similar to RAL 9016 with black edging. Durable rubber gasket glued in place and strong diffuser retention clips guarantee a tight diffuser seal. For RIDI-TUBE lamps (order separately).

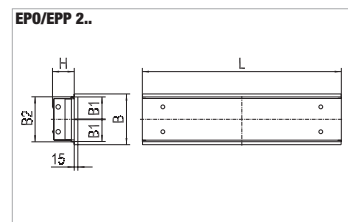
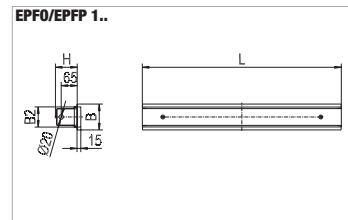
**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Installation in 100 x 100 or 200 x 200 modular metal panelled ceilings with the supplied fixing brackets. Not suitable for panelled ceilings with filler strips.

**Note:** Luminaires comply with the D symbol requirements according to the new standard and FF according to the old standard.



acc. to DIN EN 60598/VDE 0711

### EPF-R ... 0

Opal acrylic diffuser in UV-stabilised PMMA. For lamp RIDI-TUBE, recommended cover: clear.



Model	Lamps max.	R-TUBE Category	Dimens. (mm)				Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H	B2			
EPF-R1X115/30xx-0	1xR-TUBE 30 W	E, F	1247	105	95	84	7	0750027	0760027
EPF-R1X145/35xx-0	1xR-TUBE 35 W	H, I	1547	105	95	84	7	0750029	0760029
EPF-R2X055/15xx-0	2xR-TUBE 15 W	B	637	205	95	184	7	0750031	0760031
EPF-R2X115/30xx-0	2xR-TUBE 30 W	E, F	1247	205	95	184	7	0750040	0760040
EPF-R2X145/35xx-0	2xR-TUBE 35 W	H, I	1547	205	95	184	7	0750033	0760033

### EPF-R ... P

Highly transparent acrylic diffuser in UV-stabilised PMMA featuring an internal prismatic structure. For lamp RIDI-TUBE, recommended cover: matt.



Model	Lamps max.	R-TUBE Category	Dimens. (mm)				Ceiling type	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H	B2			
EPF-R1X115/30xx-P	1xR-TUBE 30 W	E, F	1247	105	95	84	7	0750028	0760028
EPF-R1X145/35xx-P	1xR-TUBE 35 W	H, I	1547	105	95	84	7	0750030	0760030
EPF-R2X055/15xx-P	2xR-TUBE 15 W	B	637	205	95	184	7	0750032	0760032
EPF-R2X115/30xx-P	2xR-TUBE 30 W	E, F	1247	205	95	184	7	0750041	0760041
EPF-R2X145/35xx-P	2xR-TUBE 35 W	H, I	1547	205	95	184	7	0750034	0760034

## Accessories

Model	Description	Prod. code
WEPO 136	Repl. diffuser for EP/EPF 136 opal PMMA	0200024
WEPO 158	Repl. diffuser for EP/EPF 158 opal PMMA	0200025
WEPO 218	Repl. diffuser for EP/EPF 218 opal PMMA	0200026
WEPO 236	Repl. diffuser for EP/EPF 236 opal PMMA	0200027
WEPO 258	Repl. diffuser for EP/EPF 258 opal PMMA	0200028
WEPP 136	Repl. diffuser for EP/EPF 136 prismatic PMMA	0200030
WEPP 158	Repl. diffuser for EP/EPF 158 prismatic PMMA	0200031
WEPP 218	Repl. diffuser for EP/EPF 218 prismatic PMMA	0200032
WEPP 236	Repl. diffuser for EP/EPF 236 prismatic PMMA	0200033
WEPP 258	Repl. diffuser for EP/EPF 258 prismatic PMMA	0200034



**ROBUST ...**

**Design:** Surface-mounted industrial luminaire with IP66 protection rating for ceiling, pendant or trunking mounting. Stable luminaire housing in die cast aluminium, grey, powder coated, colour similar to RAL7040. RIDI-LED modules formed as linear circuit boards. Panel made of toughened safety glass, structured, fixed to the housing with screws. Max. ambient temperature 45°C at 300mm ceiling clearance (only with ZBS-D-HT ROBUST (0217884) accessory – to be ordered separately). Safety class I. Impact resistance IK09.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Electrical versions:**

- dim. conv. DALI: Electronic DALI converter for LED, 100-240 VAC, 50/60 Hz, 100-250 VDC and internal connecting terminal, 5 x 2.5 mm<sup>2</sup>. Mains cable 5 x 1.0 mm<sup>2</sup>, transparent with open end, length 2 m. Suitable for DC operation and usage in central battery systems.
- El. conv.: Electronic converter for LED, 100-240 VAC, 50/60 Hz, 100-250 VDC and internal connecting terminal. Mains cable 3 x 1.0 mm<sup>2</sup>, transparent with open end, length 2 m. Suitable for DC operation and usage in central battery systems.

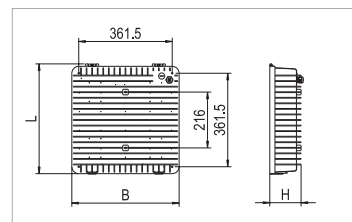
**Mounting:** Ceiling surface mounting using suitable accessories. Pendant mounting (chain or wire) using suitable fixing kits. Trunking mounting using suitable accessories.

**Note „ball resistant“:**

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.

**Note on “Food Hygiene Act”:**

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.



**ROBUST ...-B**

Parabolic mirror louvre, wide beam, made of high-reflectance specular super-purity aluminium.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
ROBUST-LED 15000/840-B	4xLED-M 27 W	15630	113	138	840	425	414	131	0650575	0660575
ROBUST-LED 23000/840-B	4xLED-M 40 W	23450	170	137	840	425	414	131	0650576	0660576

**ROBUST ...-T**

Parabolic mirror louvre, narrow beam, made of high-reflectance specular super-purity aluminium.



Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]			el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H		
ROBUST-LED 15000/840-T	4xLED-M 27 W	15800	113	139	840	425	414	131	0650577	0660577
ROBUST-LED 23000/840-T	4xLED-M 40 W	23700	170	139	840	425	414	131	0650578	0660578

**Accessories**



Model	Description	Prod. code
SLKG	S chain link, max.20kg, per unit	0200906
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
TRA-002	Luminaire hanger M5 x 20 swing hooks, galvanised steel	0200223
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888
VLSPS	Tension hook, 30mm adjustment path, max.20kg, 1 pc	0205889
VLSPSO-KH	Tension hook w. loop and carabiner adj. 50 mm, max. 20kg 1pc	0208347
ZBS-D ROBUST	Ceiling fixture for ROBUST, H=30MM	0217882
ZBS-D-HT ROBUST	Ceiling fixture for ROBUST, H=300MM, high temperature	0217884
ZBS-K ROBUST	Chain fixture, order chain or wire separately	0217883
ZBS-TRAS ROBUST	Luminaire fixture ROBUST to TRAS, set	0217886
ZBS-VLT ROBUST	Luminaire fixture ROBUST to VLT, set	0217885
ZSP-SK-3M	Wire pendant loop clamp, D=2.0mm, L=3.0m, 1pc, max. 45kg	0207880

## HERO ...

### HERO ...

**Design:** LED surface-mounted industrial luminaire with a protection rating of IP64 for ceiling surface or pendant mounting. Stable, compact luminaire housing comprising individual aluminium profiles, white, powder coated, colour similar to RAL 9016. Luminaire body structure made up of individual aluminium profiles with sturdy cooling fins. The resulting thermal air circulation guarantees optimum heat management for high luminous flux levels. Optical control using lens arrays fitted with mid-power LEDs for maximum luminaire efficiency.

LED fitted with nanocoating for increased resistance to corrosive gasses.

Lenses covered by a clear PMMA panel.

Safety class I. Impact resistance IK04.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), 6500 Kelvin (865), other colour temperatures possible on request.

#### Electrical versions:

- dim. conv. DALI: Electronic DALI converter for LED, 220-240V, 0/50-60Hz. Mains power cable 5x1.0mm<sup>2</sup> transparent with open end, 2m long, mounted to the luminaire by cable screw. Suited for direct current operation and the use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240V, 0/50-60Hz. Mains power cable 3x1.0mm<sup>2</sup> transparent with open end, 2m long, mounted to the luminaire by cable screw. Suited for direct current operation and the use in central battery systems.

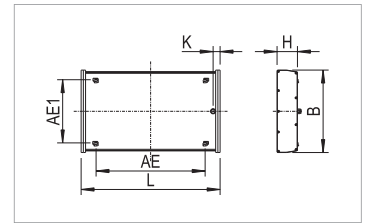
**Mounting:** Ceiling surface mounting using suitable accessories. Pendant mounting (chain, wire) using the relevant fixing kits. Rail mounting on trunking TRAS or VLTO using suitable accessories.

#### Note „ball resistant“:

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.



acc. to DIN EN 60598/VDE 0711



#### Non-standard designs:

- Emergency lighting versions (UR + Z)
- RAL colours



### HERO ...-S

Industrial luminaire made of extruded sectional aluminium with spot lens optics 30°

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	K		
HERO 1260-840 S-HT	4xLED-M 25 W	12580	115	109	840	337	372	110	32	0657469	0667469
HERO 1260-865 S-HT	4xLED-M 25 W	12580	115	109	865	337	372	110	32	0657470	0667470
HERO 1500-840 S	4xLED-M 30 W	14500	128	113	840	337	372	110	32	0657465	0667465
HERO 1500-865 S	4xLED-M 30 W	14500	128	113	865	337	372	110	32	0657466	0667466
HERO 2500-840 S-HT	8xLED-M 25 W	25160	230	109	840	627	372	110	32	0657471	0667471
HERO 2500-865 S-HT	8xLED-M 25 W	25160	230	109	865	627	372	110	32	0657472	0667472
HERO 3000-840 S	8xLED-M 30 W	29000	276	105	840	627	372	110	32	0657467	0667467
HERO 3000-865 S	8xLED-M 30 W	29000	276	105	865	627	372	110	32	0657468	0667468



### HERO ...-M

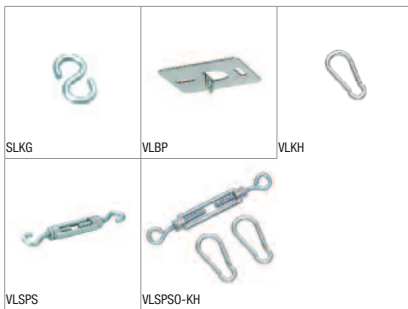
Industrial luminaire made of extruded sectional aluminium with medium lens optics 60°

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	K		
HERO 1260-840 M-HT	4xLED-M 25 W	12850	115	111	840	337	372	110	32	0657477	0667477
HERO 1260-865 M-HT	4xLED-M 25 W	12850	115	111	865	337	372	110	32	0657478	0667478
HERO 1500-840 M	4xLED-M 30 W	14600	128	114	840	337	372	110	32	0657473	0667473
HERO 1500-865 M	4xLED-M 30 W	14600	128	114	865	337	372	110	32	0657474	0667474
HERO 2500-840 M-HT	8xLED-M 25 W	25700	230	111	840	627	372	110	32	0657479	0667479
HERO 2500-865 M-HT	8xLED-M 25 W	25700	230	111	865	627	372	110	32	0657480	0667480
HERO 3000-840 M	8xLED-M 30 W	29200	276	105	840	627	372	110	32	0657475	0667475
HERO 3000-865 M	8xLED-M 30 W	29200	276	105	865	627	372	110	32	0657476	0667476

**HERO ...-SF**

Industrial luminaire made of extruded sectional aluminium with super-flood lens optics 110°

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	K		
HERO 1260-840 SF-HT	4xLED-M 25 W	12747	115	110	840	337	372	110	32	0657461	0667461
HERO 1260-865 SF-HT	4xLED-M 25 W	12747	115	110	865	337	372	110	32	0657462	0667462
HERO 1500-840 SF	4xLED-M 30 W	14300	128	111	840	337	372	110	32	0657457	0667457
HERO 1500-865 SF	4xLED-M 30 W	14300	128	111	865	337	372	110	32	0657458	0667458
HERO 2500-840 SF-HT	8xLED-M 25 W	25520	230	110	840	627	372	110	32	0657463	0667463
HERO 2500-865 SF-HT	8xLED-M 25 W	25520	230	110	865	627	372	110	32	0657464	0667464
HERO 3000-840 SF	8xLED-M 30 W	28600	276	103	840	627	372	110	32	0657459	0667459
HERO 3000-865 SF	8xLED-M 30 W	28600	276	103	865	627	372	110	32	0657460	0667460

**Accessories**

Model	Description	Prod. code
SLKG	S chain link, max.20kg, per unit	0200906
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888
VLSPS	Tension hook, 30mm adjustment path, max.20kg, 1 pc	0205889
VLSPSO-KH	Tension hook w. loop and carabiner adj. 50 mm, max. 20kg 1pc	0208347
ZBS-D HERO	Deckenbefestiger HERO	0218427
ZBS-TRAS HERO	Luminaire fixing HERO to TRAS	0217888
ZBS-VLT HERO	Luminaire fixing HERO to VLT	0217887
ZBS-W HERO	Wall mount HERO	0218426



# Industrial hibay luminaire RLS1-LED

## Industrial hibay luminaire RLS1-LED with LED modules, IP65

**Design:** Hibay luminaire, luminaire housing in die-cast aluminium, white powder coated, colour similar to RAL9016. Reflector housing in die-cast aluminium with cooling fins for optimum, efficient heat dissipation. Protection rating IP65. Foamed gasket between the housing halves and between the luminaire housing and reflector.

LED COB module for high luminous flux levels of 5,000 to 16,000 lumen with efficient optical control in a minimum of space. Optical control with durable lens in real glass, screwed to the reflector housing using a retaining ring with sealing profile. LED converter mounted in the luminaire housing. Integrated holding bracket to accommodate the fixing accessories.

Colour rendering in index Ra  $\geq$  80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

### Electrical versions:

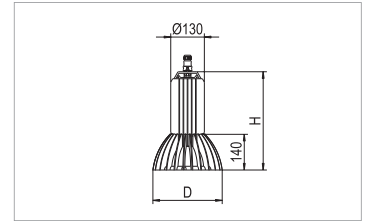
- dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Electrical connection via an externally accessible connector to up to 3x2.5mm<sup>2</sup>. The connecting socket is included in the delivery.
- el. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Electrical connection via an externally accessible connector to up to 3x2.5mm<sup>2</sup>. The connecting socket is included in the delivery.

**Mounting:** Wire pendant, tube pendant, chain and ceiling mounting with the relevant accessories. Ball-resistant mounting only with suspension cable (Item no.: 0202425), ceiling fixture (Item no.: 0205887) and carabiner hooks (Item no.: 0205888).

### Note „ball resistant“:

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.

**Note:** For feed-through wiring from lamp to lamp, a conduit/junction box must be provided on site.



### RLS1-LED ... B

Lens in real glass with wide-beam light distribution.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]		el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
						D	H		
RLS1-LED xxWS-1000B830	1xLED-M 70 W	9740	80	121	830	270	380	0321471	0331471
RLS1-LED xxWS-1000B840	1xLED-M 70 W	9740	80	121	840	270	380	0321472	0331472
RLS1-LED xxWS-1600B830	1xLED-M 102 W	15930	115	138	830	270	380	0321473	0331473
RLS1-LED xxWS-1600B840	1xLED-M 102 W	15930	115	138	840	270	380	0321474	0331474
RLS1-LED xxWS-500B830	1xLED-M 40 W	5360	47	114	830	270	380	0321469	0331469
RLS1-LED xxWS-500B840	1xLED-M 40 W	5360	47	114	840	270	380	0321470	0331470



### RLS1-LED ... T

Lens in real glass with narrow-beam light distribution.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]		el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
						D	H		
RLS1-LED xxWS-1000T830	1xLED-M 70 W	9850	80	123	830	270	380	0321477	0331477
RLS1-LED xxWS-1000T840	1xLED-M 70 W	9850	80	123	840	270	380	0321478	0331478
RLS1-LED xxWS-1600T830	1xLED-M 102 W	15850	115	137	830	270	380	0321479	0331479
RLS1-LED xxWS-1600T840	1xLED-M 102 W	15850	115	137	840	270	380	0321480	0331480
RLS1-LED xxWS-500T830	1xLED-M 40 W	5400	47	114	830	270	380	0321475	0331475
RLS1-LED xxWS-500T840	1xLED-M 40 W	5400	47	114	840	270	380	0321476	0331476



## Accessories

Model	Description	Prod. code
RL-DB	Ceiling fixing for RL.1/RL.2	0202428
RL-HK	Chain fixing for RL.1/RL.2 , 1 pc	0202427
RL-SPO 1,5	Wire pendant for RL.1/RL.2 1.5m with loop, 1 pc	0202425
RL-SPO 3,0	Wire pendant for RL.1/RL.2 3.0m with loop, 1 pc	0202426
RLS1-LED-VSK PC	Panel attachment, clear PC, white fixing ring	0202437
SLKG	S chain link, max.20kg, per unit	0200906
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
UKNS	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0210958
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888



# Industrial hibay luminaire RLS2-LED

## Industrial hibay luminaire RLS2-LED with LED modules, IP65

**Design:** Hibay luminaire, luminaire housing in die-cast aluminium, white powder coated, colour similar to RAL9016. Reflector housing in die-cast aluminium with cooling fins for optimum, efficient heat dissipation. Protection rating IP65. Foamed gasket between the housing halves and between the luminaire housing and reflector.

LED-COB module for high luminous flux levels and efficient optical control. Optical control with durable lens in real glass, screwed to the reflector housing using a retaining ring with sealing profile. LED converter mounted in the luminaire housing. Integrated holding bracket to accommodate the fixing accessories.

Colour rendering in index Ra  $\geq$  80, colour temperature 4000 Kelvin (840), 6500 Kelvin (865), other colour temperatures possible on request.

### Electrical versions:

- dim. conv. DALI: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Electrical connection via an externally accessible connector to up to 3x2.5mm<sup>2</sup>. The connecting socket is included in the delivery.
- el. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Electrical connection via an externally accessible connector to up to 3x2.5mm<sup>2</sup>. The connecting socket is included in the delivery.

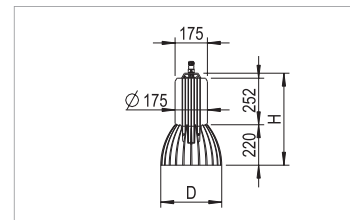
**Mounting:** Wire pendant, tube pendant, chain and ceiling mounting with the relevant accessories.

Ball resistant mounting only with chain (2x item no. 0200251), ceiling fixing (2x item no. 0205887) and carabiner hook (4x item no. 0205888)

### Note „ball resistant“:

RIDI luminaires with this sign are produced to the appropriate mechanical and photometric standards demanded for sports hall lighting. They comply with ball-resistant safety requirements according to DIN 18032, part 3 and have been tested for that purpose by the MPA or VDE.

**Note:** For feed-through wiring from lamp to lamp, a conduit/junction box must be provided on site.



acc. to DIN EN 60598/VDE 0711



### RLS2-LED ... B

Lens in real glass with wide-beam light distribution.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]		el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
						D	H		
RLS2-LED xxWS-2200B840	1xLED-M 160 W	21300	170	125	840	330	500	0321483	0331483
RLS2-LED xxWS-2200B865	1xLED-M 160 W	22300	170	131	865	330	500	0321484	0331484
RLS2-LED xxWS-2800B840	1xLED-M 222 W	27340	237	115	840	330	500	0321481	0331481
RLS2-LED xxWS-2800B865	1xLED-M 222 W	28270	237	119	865	330	500	0321482	0331482



**RLS2-LED ... T**  
 Lens in real glass with narrow-beam light distribution.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm] D H	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
RLS2-LED xxWS-2200T840	1xLED-M 160 W	21300	170	125	840	330 500	0321487	0331487
RLS2-LED xxWS-2200T865	1xLED-M 160 W	22300	170	131	865	330 500	0321488	0331488
RLS2-LED xxWS-2800T840	1xLED-M 222 W	27340	237	115	840	330 500	0321485	0331485
RLS2-LED xxWS-2800T865	1xLED-M 222 W	28270	237	119	865	330 500	0321486	0331486

**Accessories**



Model	Description	Prod. code
RL-DB	Ceiling fixing for RL.1/RL.2	0202428
RL-HK	Chain fixing for RL.1/RL.2 , 1 pc	0202427
RL-SPO 1,5	Wire pendant for RL.1/RL.2 1.5m with loop, 1 pc	0202425
RL-SPO 3,0	Wire pendant for RL.1/RL.2 3.0m with loop, 1 pc	0202426
RLS2-LED-VSK PC	Panel attachment, clear PC, white fixing ring	0202438
SLKG	S chain link, max.20kg, per unit	0200906
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
UKNS	Wire pendant w. ceiling fixing and wire clamp, 1.5m, 1 pc	0210958
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888



# LF-T16-S-R for RIDI-TUBE lamp

## Diffuser luminaire series LF-T16-S-R

**Design:** Single luminaire for ceiling or pendant mounting. Luminaire housing in rigid profiled steel with white / silver (SI) synthetic resin coating and mounted plastic end pieces. End caps with knock-outs 3x dia. 10 mm and 1x10 mm x 20 mm for end face cable insertion. Reflector in white synthetic resin coated steel to increase the LOR and as a cover for the electrical components. Surrounding gasket between the diffuser and housing ensures compliance with the IP protection rating. Sealing washer to seal the fixing holes between the ceiling and luminaire housing. Toolless diffuser wall fixture using captive clips in the luminaire housing. For RIDI-TUBE lamps (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

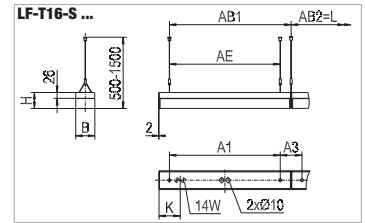
**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Direct ceiling mounting without any additional accessories. Pendant mounting using suitable fixing kits ZSP...LF-T16-S.

**Accessories:** For luminaire-specific accessories, see the luminaire series, general accessories are featured at the end of the chapter.

**Note:** Luminaires comply with the D symbol requirements according to the new standard and FF according to the old standard.



acc. to DIN EN 60598/VDE 0711

### LF-T16-S-R ... SM

Extruded plastic diffuser in transparent UV-stabilised polycarbonate (PC) with welded-on injection moulded end covers. With laid-in parabolic mirror louvre in high-reflectance, super purity matt anodised aluminium with silver coating. For lamp RIDI-TUBE, recommended cover: matt.



Model	Lamps max.	R-TUBE Category	L	B	Dimens. [mm]					K	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
					H	A1	A3	AB1	AE			
LF-T16-S-R1X055/15xx-SM	1xR-TUBE 15 W	A, B	598	85	72	500	96	550	500	98	0450010	0460010
LF-T16-S-R1X055/15xx-SM-SI	1xR-TUBE 15 W	A, B	598	85	72	500	96	550	500	98	0450010SI	0460010SI
LF-T16-S-R1X115/30xx-SM	1xR-TUBE 30 W	E, F	1198	85	72	1100	96	1100	1000	599	0450020	0460020
LF-T16-S-R1X115/30xx-SM-SI	1xR-TUBE 30 W	E, F	1198	85	72	1100	96	1100	1000	599	0450020SI	0460020SI
LF-T16-S-R1X145/35xx-SM	1xR-TUBE 35 W	H, I	1498	85	72	1400	96	1400	1300	749	0450026	0460026
LF-T16-S-R1X145/35xx-SM-SI	1xR-TUBE 35 W	H, I	1498	85	72	1400	96	1400	1300	749	0450026SI	0460026SI
LF-T16-S-R1X145/45xx-SM	1xR-TUBE 45 W	I	1498	85	72	1400	96	1400	1300	749	0450069	
LF-T16-S-R1X145/45xx-SM-SI	1xR-TUBE 45 W	I	1498	85	72	1400	96	1400	1300	749	0450069SI	

### LF-T16-S-R ... OE

Extruded plastic diffuser in opal UV-stabilised polycarbonate (PC) with welded-on injection moulded end covers. For lamp RIDI-TUBE, recommended cover: opal.



Model	Lamps max.	R-TUBE Category	L	B	Dimens. [mm]					K	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
					H	A1	A3	AB1	AE			
LF-T16-S-R1X055/15xx-OE	1xR-TUBE 15 W	A, B	598	85	72	500	96	550	500	98	0450012	0460012
LF-T16-S-R1X055/15xx-OE-SI	1xR-TUBE 15 W	A, B	598	85	72	500	96	550	500	98	0450012SI	0460012SI
LF-T16-S-R1X115/30xx-OE	1xR-TUBE 30 W	E, F	1198	85	72	1100	96	1100	1000	599	0450006	0460006
LF-T16-S-R1X115/30xx-OE-SI	1xR-TUBE 30 W	E, F	1198	85	72	1100	96	1100	1000	599	0450006SI	0460006SI
LF-T16-S-R1X145/35xx-OE	1xR-TUBE 35 W	H, I	1498	85	72	1400	96	1400	1300	749	0450007	0460007
LF-T16-S-R1X145/35xx-OE-SI	1xR-TUBE 35 W	H, I	1498	85	72	1400	96	1400	1300	749	0450007SI	0460007SI
LF-T16-S-R1X145/45xx-OE	1xR-TUBE 45 W	I	1498	85	72	1400	96	1400	1300	749	0450067	0460067
LF-T16-S-R1X145/45xx-OE-SI	1xR-TUBE 45 W	I	1498	85	72	1400	96	1400	1300	749	0450067SI	0460067SI
LF-T16-S-R2X055/15xx-OE	2xR-TUBE 15 W	A, B	598	85	72	500	96	550	500	98	0450062	0460062
LF-T16-S-R2X055/15xx-OE-SI	2xR-TUBE 15 W	A, B	598	85	72	500	96	550	500	98	0450062SI	0460062SI
LF-T16-S-R2X115/30xx-OE	2xR-TUBE 30 W	E, F	1198	85	72	1100	96	1100	1000	599	0450063	0460063
LF-T16-S-R2X115/30xx-OE-SI	2xR-TUBE 30 W	E, F	1198	85	72	1100	96	1100	1000	599	0450063SI	0460063SI
LF-T16-S-R2X145/35xx-OE	2xR-TUBE 35 W	H, I	1498	85	72	1400	96	1400	1300	749	0450064	0460064
LF-T16-S-R2X145/35xx-OE-SI	2xR-TUBE 35 W	H, I	1498	85	72	1400	96	1400	1300	749	0450064SI	0460064SI







### LF-T16-S-R ... AS

Extruded plastic diffuser in transparent UV stabilised polycarbonate (PC) with welded-on injection moulded end covers. Asymmetric reflector in high-reflectance, super purity silk matt anodised aluminium with silver coating. For lamp RIDI-TUBE, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	B	Dimens. [mm]					el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code	
					H	A1	A3	AB1	AE			K
LF-T16-S-R1X055/15xx-AS	1xR-TUBE 15 W	A, B	598	85	72	500	96	550	500	98	0450014	0460014
LF-T16-S-R1X055/15xx-AS-SI	1xR-TUBE 15 W	A, B	598	85	72	500	96	550	500	98	0450014SI	0460014SI
LF-T16-S-R1X115/30xx-AS	1xR-TUBE 30 W	E, F	1198	85	72	1100	96	1100	1000	599	0450022	0460022
LF-T16-S-R1X115/30xx-AS-SI	1xR-TUBE 30 W	E, F	1198	85	72	1100	96	1100	1000	599	0450022SI	0460022SI
LF-T16-S-R1X145/35xx-AS	1xR-TUBE 35 W	H, I	1498	85	72	1400	96	1400	1300	749	0450024	0460024
LF-T16-S-R1X145/35xx-AS-SI	1xR-TUBE 35 W	H, I	1498	85	72	1400	96	1400	1300	749	0450024SI	0460024SI



### Accessories

Model	Description	Prod. code
LF-T16-S LBV	Luminaire connector for pendant mounting	0204343
SLKG	S chain link, max.20kg, per unit	0200906
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
TRA-002	Luminaire hanger M5 x 20 swing hooks, galvanized steel	0200223
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLSPS	Tension hook, 30mm adjustment path, max.20kg, 1 pc	0205889
WLF-T16-S 14	Replacement diffuser for LF-T16-S 14/24W transparent PC	0208161
WLF-T16-S 14 OE	Replacement diffuser for LF-T16-S 14/24W opal extruded PC	0208108
WLF-T16-S 14 SM	Replacement diff. for LF-T16-S 14/24W transp. PC + louvre SM	0208114
WLF-T16-S 28	Replacement diffuser for LF-T16-S 28/54W transparent PC	0208162
WLF-T16-S 28 OE	Replacement diffuser for LF-T16-S 28/54W opal extruded PC	0208109
WLF-T16-S 28 SM	Replacement diff. for LF-T16-S 28/54W transp. PC + louvre SM	0208115
WLF-T16-S 35	Replacement diffuser for LF-T16-S 35/49/80W transparent PC	0208163
WLF-T16-S 35 OE	Replacement diffuser for LF-T16-S 35/49/80W opal extruded PC	0208110
WLF-T16-S 35 SM	Replacement diff. F. LF-T16-S 35/49/80W transp. PC+louvre SG	0208116
ZADV LF-T16 .14/24-3X1,5 DV	Sleeved cable 3x1.5mm² ext. through wiring LF-T16, max.10A	0204347
ZADV LF-T16 .14/24-5X1,5 DV	Sleeved cable 5x1.5mm² ext. through wiring LF-T16, max.10A	0204350
ZADV LF-T16 .28/54-3X1,5 DV	Sleeved cable 3x1.5mm² ext. through wiring LF-T16, max.10A	0204348
ZADV LF-T16 .28/54-5X1,5 DV	Sleeved cable 5x1.5mm² ext. through wiring LF-T16, max.10A	0204351
ZADV LF-T16 .35/49/80-3X1,5 DV	Sleeved cable 3x1.5mm² ext. through wiring LF-T16, max.10A	0204349
ZADV LF-T16 .35/49/80-5X1,5 DV	Sleeved cable 5x1.5mm² ext. through wiring LF-T16, max.10A	0204352
ZSP-B LF-T16-S	Wire pendant for LF-T16-S. light connector, 1.5m, 1 pc	0204418
ZSP-E LF-T16-S	Wire pendant LF-T16 for single luminaire or end 1.5m, 1 pc	0204342
ZSPT2Z-B LF-T16-S	Y' wire pendant for LF-T16-S, connector, 1.5m, 1 pc	0204417
ZSPT2Z-E LF-T16-S	Y' wire pendant for single light or end of run,1.5m, 1 pc	0204341
ZUSPS	Wire pendant for hostile env. luminaires, 1.5m, 1 set = 1 pc	0201257



# LF-LED ... 0-IP64

## LF-LED ... 0-IP64

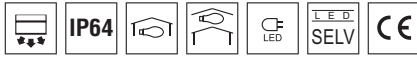
**Design:** Diffuser luminaire with LED modules for ceiling or wall mounting, protection rating IP64. Luminaire housing in torsionally rigid edged galvanised steel, white powder coated, colour RIDI reflex white similar to RAL 9016. Surrounding gasket between the diffuser and luminaire housing ensures compliance with the protection rating. Round gasket to close the fixing holes between the ceiling and luminaire housing. Toolless diffuser fixture using captive clips. Diffusers injection moulded from UV-stabilised PMMA, ensuring even wall thickness over the whole diffuser cross-section. Fitted with RIDI-LED circuit boards.

Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

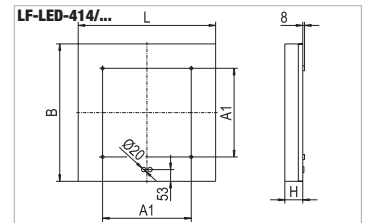
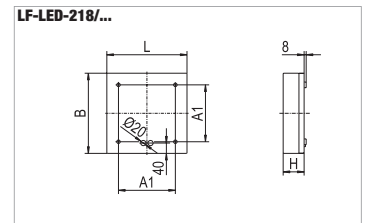
### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Direct ceiling or wall mounting without additional accessories.



acc. to DIN EN 60598/VDE 0711



### Special versions:

- Version with emergency light elements



### LF-LED 414... 0-IP64

Square design 620 x 620 mm with opal diffuser and fitted with LED modules.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	A1		
LF-LED-414/10000/830	2xLED-M 30 W	7770	74	105	830	620	620	81	400	0422158//649	0432158//649
LF-LED-414/10400/840	2xLED-M 30 W	8081	74	109	840	620	620	81	400	0422158	0432158
LF-LED-414/5000/830	2xLED-M 15 W	3885	37	105	830	620	620	81	400	0422155//649	0432155//649
LF-LED-414/5200/840	2xLED-M 15 W	4040	37	109	840	620	620	81	400	0422155	0432155



### LF-LED 218... 0-IP64

Square design 310 x 310 mm with opal diffuser and fitted with LED modules.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code	dim. conv. DALI Prod. code
						L	B	H	A1		
LF-LED-218/1250/830	1xLED-M 7,5 W	971	9,5	102	830	310	310	81	220	0422154//649	0432154//649
LF-LED-218/1300/840	1xLED-M 7,5 W	1010	9,5	106	840	310	310	81	220	0422154	0432154
LF-LED-218/2500/830	1xLED-M 15 W	1850	19	97	830	310	310	81	220	0422156//649	0432156//649
LF-LED-218/2600/840	1xLED-M 15 W	1924	19	101	840	310	310	81	220	0422156	0432156

## Accessories



ZRO

Model	Description	Prod. code
ZRO	Frame opener	0204003

## Diffuser luminaire series RKSK

**Design:** Round single diffuser luminaire, with LED modules for ceiling and wall installation. Round luminaire fitting made of polycarbonate, in white. Two cable entries and four holes for fastening into the fitting. Factory-fitted equalising membrane in the housing, spring clips for fixing the diffuser into position. Equipped with RIDI-LED modules. LED modules made of circular segments mounted on the bottom of the luminaire for standardised illumination of the luminaire cover. LED modules with copper coating on both sides for optimal heat distribution.

Colour rendering in index Ra >= 80, colour temperature 3000 Kelvin (830), 4000 Kelvin (840), other colour temperatures possible on request.

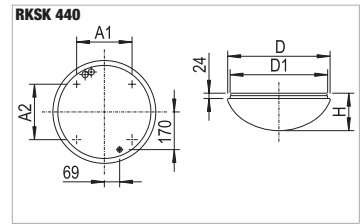
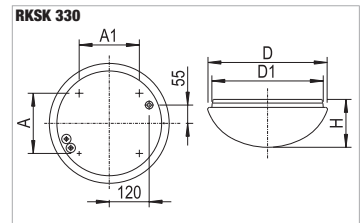
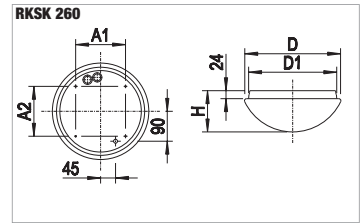
**Electrical versions:**

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 5x2.5mm<sup>2</sup>.

**Mounting:** Direct ceiling/wall mounting without additional accessories.



acc. to DIN EN 60598/VDE 0711



**RSK 260/... HPC**

Semi-circular diffuser made of opal UV-stabilised polycarbonate (PC), Diameter 290 mm. Smooth diffuser surface.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H	A1	A2	D1		
RKSK 260/1300-830 HPC	3xLED-M 3 W	-tba-	-tba-	-tba-	830	290	124	150	150	258	1420081	1430081
RKSK 260/1300-840 HPC	3xLED-M 3 W	1079	11	98	840	290	124	150	150	258	1420061	1430061



**RSK 330/... HPC**

Semi-circular diffuser made of opal UV-stabilised polycarbonate (PC), Diameter 360 mm. Smooth diffuser surface.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H	A1	A2	D1		
RKSK 330/1800-830 HPC	4xLED-M 3 W	-tba-	-tba-	-tba-	830	360	144	181	181	328	1420083	1430083
RKSK 330/1800-840 HPC	4xLED-M 3 W	1500	14	107	840	360	144	181	181	328	1420063	1430063
RKSK 330/2500-830 HPC	4xLED-M 4 W	-tba-	-tba-	-tba-	830	360	144	181	181	328	1420664	1430664
RKSK 330/2500-840 HPC	4xLED-M 4 W	-tba-	-tba-	-tba-	840	360	144	181	181	328	1420667	1430667



**RSK 440/... HPC**

Semi-circular diffuser made of opal UV-stabilised polycarbonate (PC), Diameter 464 mm. Smooth diffuser surface.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]					el. conv. Prod. code	dim. conv. DALI Prod. code
						D	H	A1	A2	D1		
RKSK 440/3750-830 HPC	6xLED-M 4 W	-tba-	-tba-	-tba-	830	464	169	250	250	433	1420085	1430085
RKSK 440/3750-840 HPC	6xLED-M 4 W	2962	28	105	840	464	169	250	250	433	1420065	1430065

## Accessories



Model	Description	Prod. code
WRKSK 260 HPC-OPAL	Replacement diffuser for RKSK 260 H opal PC	0201822
WRKSK 330 HPC-OPAL	Replacement diffuser for RKSK 330 H opal PC	0201823
WRKSK 440 HPC-OPAL	Replacement diffuser for RKSK 440 H opal PC	0201824

# EK-PC-LED

## Diffuser luminaire series EK-PC-LED

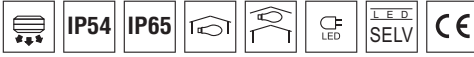
**Design:** Surface-mounted hostile environment luminaire with LED module for ceiling or wall mounting. Luminaire housing in impact-resistant white polycarbonate. Fitted with RIDI-LED module. Silicone-free gaskets for the diffuser ensure compliance with the protection rating. Captive diffuser clips integrated in the housing.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

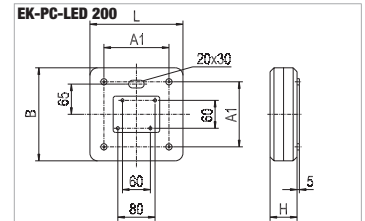
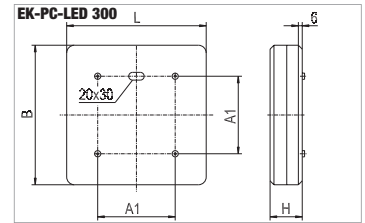
**Electrical versions:**

- El. conv.: Electronic converter for LED, 230 Volt, 0/50–60 Hz and internal connector block.

**Mounting:** Direct ceiling/wall mounting without additional accessories.



acc. to DIN EN 60598/VDE 0711



**Special versions:**

- Version with different light colours



**EK-PC-LED 200**

Injection moulded diffuser made of opal, UV-stabilised PMMA. Rectangular design. Protection rating IP54. Light flux LED module 800 lumen with passive heat sink. Due to the minimal overall height, the LEDs are slightly visible at the diffuser.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code
						L	B	H	A1	
EK-PC-LED 200/800-840	1xLED-M 4 W	553	6	92	840	200	200	58	140	0420645



**EK-PC-LED 300**

Injection moulded diffuser made of opal, UV-stabilised PMMA. Rectangular design. Prefitted steel reflector, galvanised. Protection rating IP65. Light flux LED module 1300 lumen with passive heat sink.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code
						L	B	H	A1	
EK-PC-LED 300/1300-840	1xLED-M 7,5 W	904	9,5	95	840	300	300	83	200	0420646



**Accessories**

Model	Description	Prod. code
WEK-PC 200 0	Replacement diffuser for EK-PC 200, opal PMMA	0201519
WEK-PC 300 0	Replacement diffuser for EK-PC 300, opal PMMA	0201502
ZRO	Frame opener	0204003

## Hostile environment luminaire series PFZB

**Design:** Surface-mounted hostile environment LED luminaire for ceiling or pendant mounting. Protection rating IP66, impact resistance IK08. Luminaire housing made of co-extruded impact-resistant UV-stabilised polycarbonate. Luminaire top grey RAL7035, luminaire front with opal light outlet. End caps glued to luminaire housing (silicone-free). Gear tray in white coated steel. Fitted with LED modules. LED module mounted directly on the gear tray.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

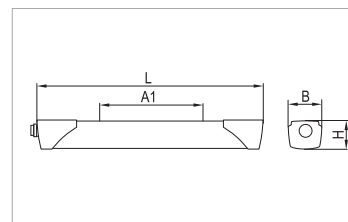
**Electrical versions:**

- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz. Suitable for direct voltage operation and use in central battery systems. Prefitted plug, including socket.

**Mounting:** Ceiling mounting using fixing clamps in stainless steel which clip in at the luminaire. Pendant mounting using stainless steel wire fixing bracket which clips into the fixing clamps. Horizontal wall mounting and theft-proof mounting possible with accessory ZBS-W PFZ.

**Note on "Food Hygiene Act":**

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1c relating to luminaires. These are suitable for use in the food industry.



**PFZB**

Prefitted 3-core plug, including 3-core socket for luminaire connection.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code
						L	B	H	A1	
PFZB 1200/4000-840	1xLED-M 34 W	4000	38	105	840	1200	78	67	800	0951216
PFZB 1500/6000-840	1xLED-M 48 W	5500	53	103	840	1480	78	67	1100	0951217



**PFZB ... DV3**

Through wiring 3 x 1.5 sq.m. (1 phase, N, SL) prefitted. 3-core prefitted plug and socket, including 3-core socket for luminaire connection and 3-core plug for mains connection. The last luminaire in the row must have no DV3.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code
						L	B	H	A1	
PFZB 1200/4000-840 DV3	1xLED-M 34 W	4000	38	105	840	1200	78	67	800	0951216//307
PFZB 1500/6000-840 DV3	1xLED-M 48 W	5500	53	103	840	1480	78	67	1100	0951217//307



**PFZB ... DV5**

Through wiring 5 x 2.5 sq.m. (3 phase, N, SL) 5-core prefitted plug and socket, including 5-core socket for luminaire connection and 5-core plug for mains connection. Luminaire wired to phase 1. The last luminaire in the row must have no DV5.

Model	Lamps	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code
						L	B	H	A1	
PFZB 1200/4000-840 DV5	1xLED-M 34 W	4000	38	105	840	1200	78	67	800	0951216//309
PFZB 1500/6000-840 DV5	1xLED-M 48 W	5500	53	103	840	1480	78	67	1100	0951217//309



### Accessories

Model	Description	Prod. code
ZBS-W PFZ.	Fixing kit for horizontal wall mounting PFZB / PFZ0, 1 set	0208971

## PFZO-T16-R ..., PFZO-T16-R ...

### Hostile environment luminaire series PFZO-T16-R ..., PFZO-T16-R ...

**Design:** Surface-mounted hostile environment luminaire IP66 for ceiling or pendant mounting. Luminaire housing in glass fibre-reinforced grey polyester. Gaskets to ensure protection rating compliance for the diffuser and captive diffuser clips made of ageing-resistant plastic (not oil-proof). Lamp: RIDI-TUBE.

Colour rendering in index Ra >= 80, colour temperature 4000 Kelvin (840), other colour temperatures possible on request.

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

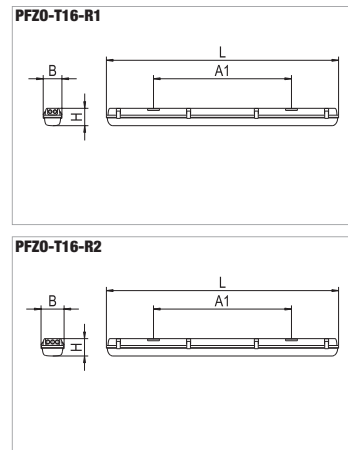
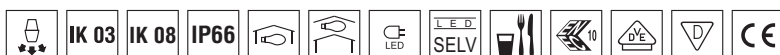
#### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup> + 2x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 220-240 Volt, 0/50-60 Hz and internal connector block 3x2.5mm<sup>2</sup>. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Ceiling mounting without additional accessories using fixing catches which clip into the luminaire. Wall mounting possible with accessory ZBS-W PFZ.

#### Note on "Food Hygiene Act":

These luminaires comply with the stipulations of the Food Hygiene Act as defined by Regulation (EC) No. 852/2004 (HACCP) Annex II Chapter I section 2 a, b, Chapter II section 1 c relating to luminaires. These are suitable for use in the food industry.



#### PFZO-T16-R ...

Opal, impact-resistant diffuser in UV-stabilised PC with internal longitudinal prisms. For RIDI-TUBE lamp (order separately), recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]				el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H	A1		
PFZO-T16-R1X055/15xx	1xR-TUBE 15 W	A, B	660	101	101	390	0950074	0960074
PFZO-T16-R1X115/30xx	1xR-TUBE 30 W	E, F	1277	101	101	800	0950072	0960072
PFZO-T16-R1X145/45xx	1xR-TUBE 45 W	I	1573	101	101	1100	0950073	0960073
PFZO-T16-R2X055/15xx	2xR-TUBE 15 W	A, B	660	145	101	390	0950075	0960075
PFZO-T16-R2X115/30xx	2xR-TUBE 30 W	E, F	1277	145	101	800	0950076	0960076
PFZO-T16-R2X145/40xx	2xR-TUBE 40 W	I	1573	145	101	1100	0950077	0960077



#### PFZO-T16-R ... SET

Opal, impact-resistant diffuser in UV-stabilised PC with internal longitudinal prisms. Including RIDI-TUBE lamp.

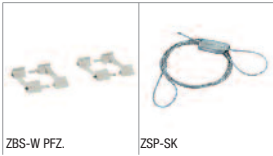
Model	Lamps max.	Luminaire luminous flux [lm]	Luminaire output [W]	Luminaire efficiency [lm/W]	Luminous colour	Dimens. [mm]				el. conv. Prod. code
						L	B	H	A1	
PFZO-T16-R1X115/30xx-SET	1xR-TUBE 30 W	3960	35	113	840	1277	101	101	800	0950072//676
PFZO-T16-R1X145/50xx-SET	1xR-TUBE 45 W	5940	52	114	840	1573	101	101	1100	0950073//676
PFZO-T16-R2X115/30xx-SET	2xR-TUBE 30 W	7128	70	101	840	1277	145	101	800	0950076//676
PFZO-T16-R2X145/40xx-SET	2xR-TUBE 40 W	8910	86	103	840	1573	145	101	1100	0950077//676



#### PFZO-T16-R ...

Opal, impact-resistant diffuser in UV-stabilised PMMA with internal longitudinal prisms. For RIDI-TUBE lamp (order separately), recommended cover: matt.

Model	Lamps max.	R-TUBE Category	Dimens. [mm]				el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
			L	B	H	A1		
PFZO-T16-R1X055/15xx	1xR-TUBE 15 W	A, B	660	101	101	390	0950078	0960078
PFZO-T16-R1X115/30xx	1xR-TUBE 30 W	E, F	1277	101	101	800	0950079	0960079
PFZO-T16-R1X145/45xx	1xR-TUBE 45 W	I	1573	101	101	1100	0950080	0960080
PFZO-T16-R2X055/15xx	2xR-TUBE 15 W	A, B	660	145	101	390	0950081	0960081
PFZO-T16-R2X115/30xx	2xR-TUBE 30 W	E, F	1277	145	101	800	0950082	0960082
PFZO-T16-R2X145/40xx	2xR-TUBE 40 W	I	1573	145	101	1100	0950083	0960083



ZBS-W PFZ

ZSP-SK

## Accessories

Model	Description	Prod. code
ZBS-W PFZ	Fixing kit for horizontal wall mounting PFZB / PFZO, 1 set	0208971
ZIDVF-PFZ 18/3/2,5	Through wiring PFZO-T16-R.X055, 3x2.5mm <sup>2</sup> , max 16A	0205538
ZIDVF-PFZ 18/5/2,5	Through wiring PFZO-T16-R.X055, 5x2.5mm <sup>2</sup> , max 16A	0205539
ZIDVF-PFZ 36/3/2,5	Through wiring PFZO-T16-R.X115, 3x2.5mm <sup>2</sup> , max 16A	0205540
ZIDVF-PFZ 36/5/2,5	Through wiring PFZO-T16-R.X115, 5x2.5mm <sup>2</sup> , max 16A	0205541
ZIDVF-PFZ 58/3/2,5	Through wiring PFZO-T16-R.X145, 3x2.5mm <sup>2</sup> , max 16A	0205542
ZIDVF-PFZ 58/5/2,5	Through wiring PFZO-T16-R.X145, 5x2.5mm <sup>2</sup> , max 16A	0205543
ZSP-SK-3M	Wire pendant loop clamp, D=2.0mm, L=3.0m, 1pc, max. 45kg	0207880
ZWF-V2A-PFZ. R1X055	Diffuser clip stainless steel V2A, PFZ.-R1X055, pack 6 pc.	0206897
ZWF-V2A-PFZ. R1X115	Diffuser clip stainless steel V2A, PFZ.-R1X115, pack 8 pc.	0206797
ZWF-V2A-PFZ. R1X145	Diffuser clip stainless steel V2A, PFZ.-R1X145, pack 10 pc.	0206798



# PLF-T16-R for RIDI-TUBE lamp

## Hostile environment luminaire series PLF-T16-R ...

**Design:** Surface-mounted hostile environment luminaire. IP54 for ceiling mounting. Housing made of glass fibre reinforced grey polyester. White coated prefitted steel reflector. Gaskets to ensure protection rating and captive plastic spring clips for the diffuser. For RIDI-TUBE lamps (order separately).

**Lampholder system:** RIDI-TUBE lamp base system with electrical and mechanical interface, proof against polarity reversal. Twist-clip mechanism for toolless lamp change corresponding to conventional fluorescent lamps. Mechanical and electrical fixture on the longitudinal sides inside the base.

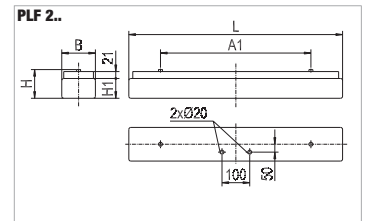
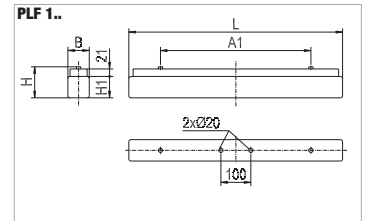
### Electrical versions:

- Dim. conv. DALI: Electronic DALI converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.
- El. conv.: Electronic converter for LED, 230 Volt, 0/50-60 Hz and internal connector block. Suitable for direct voltage operation and use in central battery systems.

**Mounting:** Luminaire suitable for ceiling mounting, horizontal or vertical wall mounting only possible in consultation with the manufacturer. Pendant mounting possible using a chain or trunking.

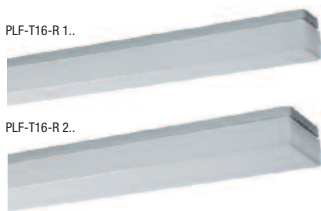
**Accessories:** For luminaire-specific accessories, see the luminaire series, general accessories are featured at the end of the chapter.

**Note:** Luminaires comply with the D symbol requirements according to the new standard and FF according to the old standard.



### Non-standard designs:

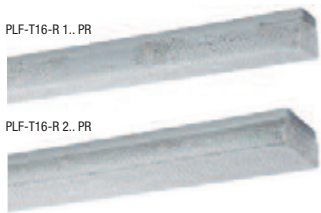
- Version with emergency lighting elements



### PLF-T16-R ...

Acrylic diffuser made of opal, UV-stabilised PMMA. For RIDI-TUBE lamps, recommended cover: clear.

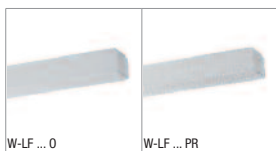
Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			A1	H1	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	A1				
PLF-T16-R1X115/30xx-0	1xR-TUBE 30 W	E, F	1260	100	95	740	65	0951016	0961016	
PLF-T16-R1X145/35xx-0	1xR-TUBE 35 W	H, I	1560	100	95	850	65	0951020	0961020	
PLF-T16-R2X115/30xx-0	2xR-TUBE 30 W	E, F	1260	190	95	750	65	0951024	0961024	
PLF-T16-R2X145/35xx-0	2xR-TUBE 35 W	H, I	1560	190	95	850	65	0951028	0961028	



### PLF-T16-R ... PR

Prismatically structured diffuser with embossed prisms in highly-transparent, UV-stabilised acrylic (PMMA). For RIDI-TUBE lamps, recommended cover: matt.

Model	Lamps max.	R-TUBE Category	L	Dimens. [mm]			A1	H1	el. conv. xx=ND Prod. code	dim. conv. DALI xx=DA Prod. code
				B	H	A1				
PLF-T16-R1X115/30xx-PR	1xR-TUBE 30 W	E, F	1260	100	120	740	90	0951018	0961018	
PLF-T16-R1X145/35xx-PR	1xR-TUBE 35 W	H, I	1560	100	120	850	90	0951022	0961022	
PLF-T16-R2X115/30xx-PR	2xR-TUBE 30 W	E, F	1260	190	100	750	70	0951026	0961026	
PLF-T16-R2X145/35xx-PR	2xR-TUBE 35 W	H, I	1560	190	100	850	70	0951030	0961030	

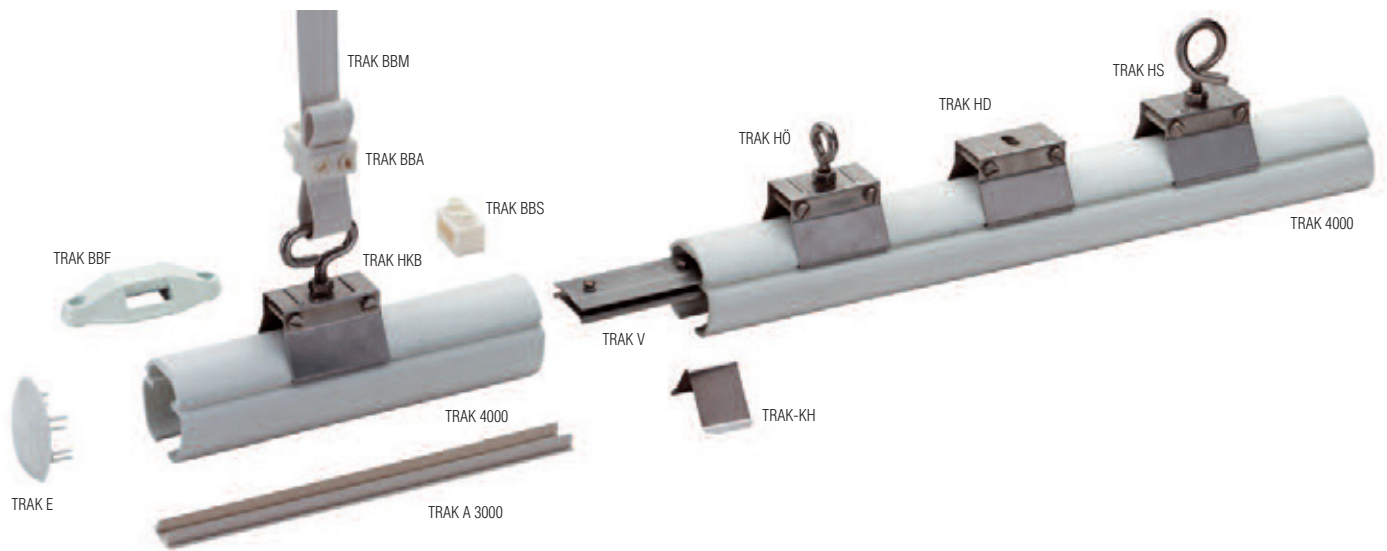


## Accessories

Model	Description	Prod. code
W-LF 136 O	Repl. diffuser for LF/LFN/PLF 136/154 opal PMMA	0200052
W-LF 136 PR	Repl. diffuser for LF/LFN/PLF 136/154 prismatic PMMA	0200057
W-LF 158 O	Repl. diffuser for LF/LFN/PLF 158/149 opal PMMA	0200053
W-LF 158 PR	Repl. diffuser for LF/LFN/PLF 158/149 prismatic PMMA	0200058
W-LF 236 O	Repl. diffuser for LF/LFN/PLF 236/254 opal PMMA	0200055
W-LF 236 PR	Repl. diffuser for LF/LFN/PLF 236/254 prismatic PMMA	0200060
W-LF 258 O	Repl. diffuser for LF/LFN/PLF 258/249 opal PMMA	0200056
W-LF 258 PR	Repl. diffuser for LF/LFN/PLF 258/249 prismatic PMMA	0200061

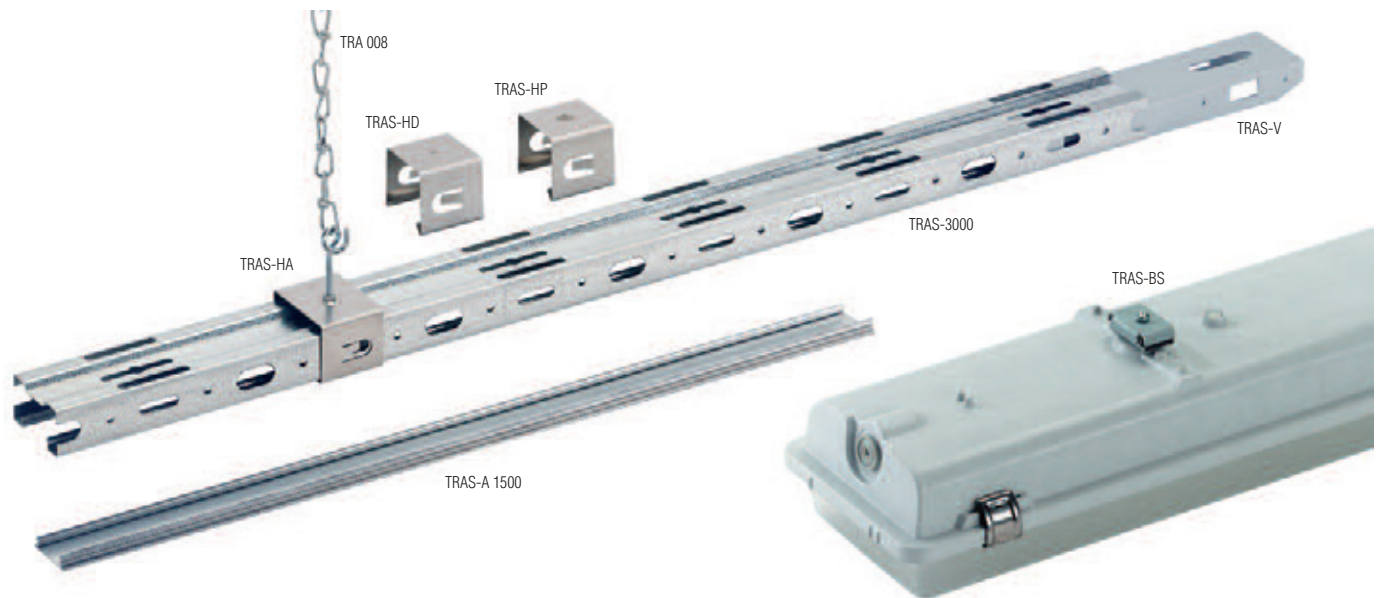


## TRAK accessories for suspended installation with trunking



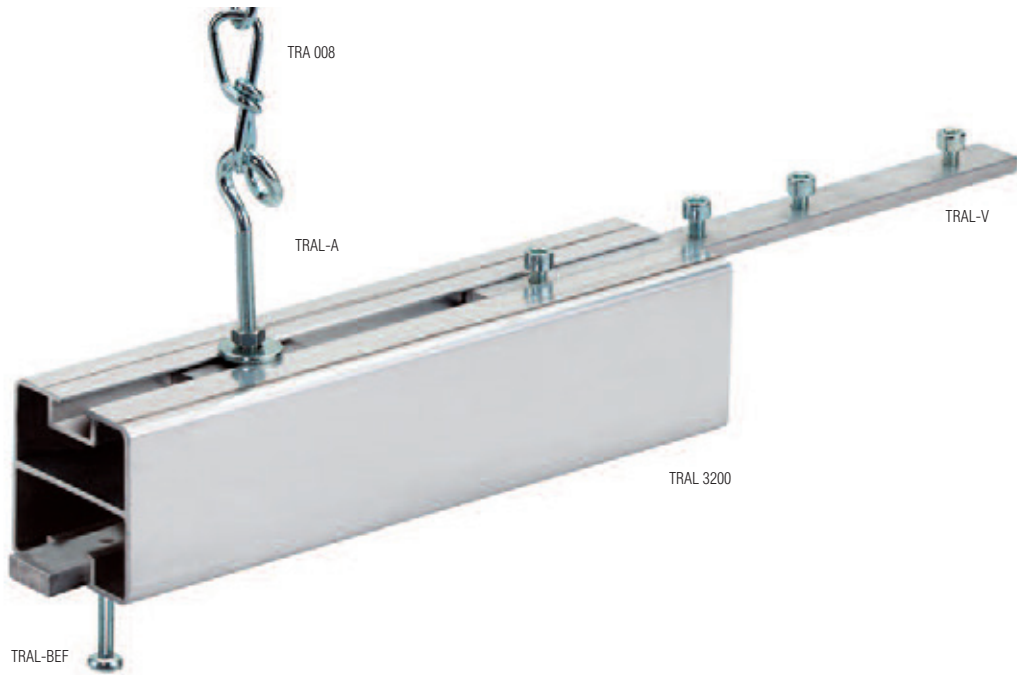
Model	Description	Prod. code
TRAK 4000	White plastic trunking, L=4.0 m	NK2007504
TRAK 6000	White plastic trunking, L=6.0 m	NK2007506
TRAK-A 3000	TRAK cover strip, white plastic, L=3.0m	NK2005563
TRAK-BBA	Wide strap pendant, initial susp. point with cable clips	NK200758
TRAK-BBE	Wide strap pendant, end / intermediate susp. point	NK200759
TRAK-BBF	Ceiling support for TRAK BBM, white plastic, 1pc	NK200290
TRAK-BBM	Strap pendant, white plastic, max.50m, loop=0.5m/1.0m	NK200280
TRAK-BBS	Pendant lock, white plastic, 1pc	NK200295
TRAK-BBSK	Pendant lock with cable clip, white plastic, 1pc	NK200294
TRAK-BEF	Luminaire fixing for TRAK, 1 set = 1pc	0201443
TRAK-E	End cap for TRAK, white plastic	NK200552
TRAK-HD	St. steel trunking hanger for ceiling mounting	NK200761
TRAK-HKB	St. steel trunking hanger for strap pendant mounting	NK200754
TRAK-HO	St. steel trunking hanger for loop bolt pendant mounting	NK200755
TRAK-HS	St. steel trunking hanger for swing hook pendant mounting	NK200760
TRAK-KH	Stainless steel cable hanger, 1pc	NK200593
TRAK-V	Stainless steel TRAK connector, 1pc	NK200751

## TRAS accessories for suspended installation with trunking



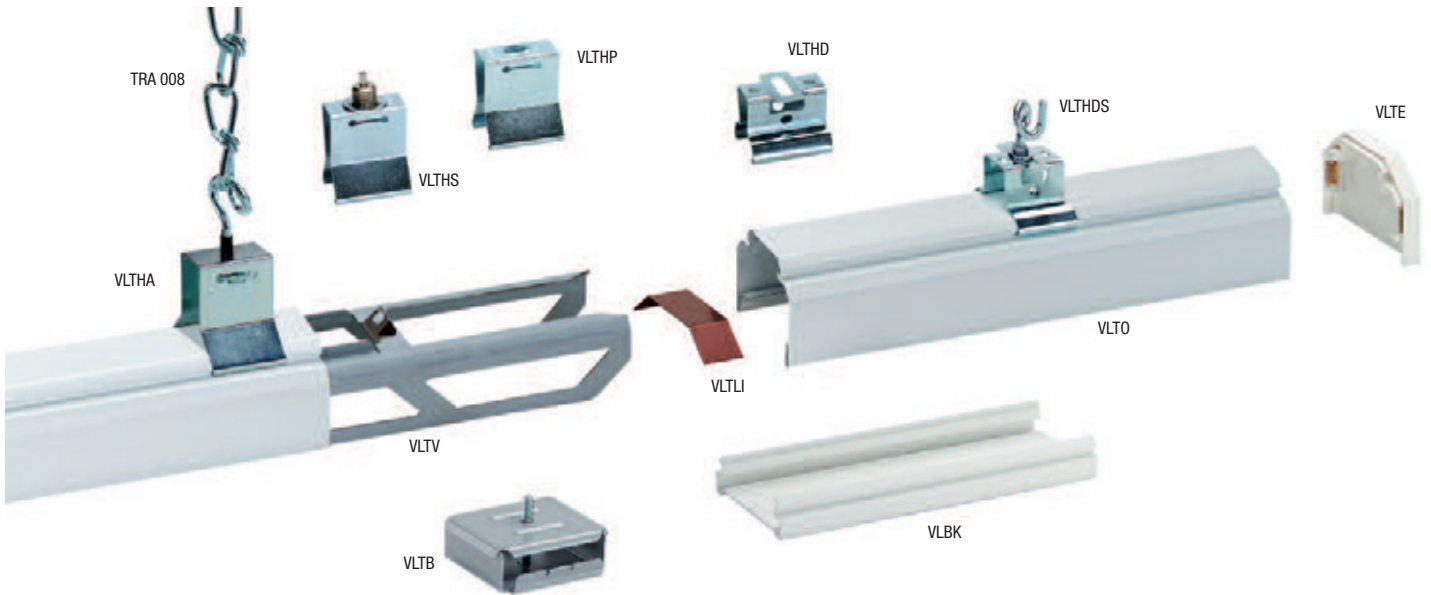
Model	Description	Prod. code
SLKB 3-7	Quick fixing for L and T supports, A=3 - 7mm, with loop	0200907
SLKB 8-13	Quick fixing for L and T supports, A=8- 13mm, with loop	0200908
SLKBT	Quick fixing for system ceilings, with loop	0200910
SLKBT M6x16	Quick fixing for system ceilings, with thread M6x16	0200912
SLKBTR M6	Quick fixing for trapezoidal sections, loop bolt M6	0201525
SLKG	S chain link, max. 20kg, per unit	0200906
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
TRAS 3000	Galvanized steel trunking, L=3.0m, weight 3.9 kg	0207851
TRAS 4500	Galvanized steel trunking, L=4.5m, weight 5.9 kg	0207852
TRAS-A 1500	Galv. cover for TRAS, L=1.5m, ball resistant with TRAS-AB	0207853
TRAS-B	Luminaire fixing for surface mounted luminaires	0207870
TRAS-BIHLS 1/2..	Clamp IHLS-T16-1-/2-lamp, IL 4-lamp, 1 x per luminaire	0208178
TRAS-BIHLS 4..	Clamp IHLS-T16-3-/4-lamp., 1 x per luminaire	0208179
TRAS-BS	Luminaire fixing for PFN, PFAG, PFAMI, PLF, PCAMI, PCAG	0207871
TRAS-BSK	Clamp for luminaires on TRAS, max. 8kg, 1/luminaire	0208436
TRAS-HA	Chain suspension hanger adjustable nut, 1 pc	0207867
TRAS-HAS	Angular chain suspension hanger, 1 pc	0207944
TRAS-HD	Hanger with 6.0 dia. for ceiling mounting, 1 pc	0207868
TRAS-HP	Hanger with dia.13.5 for TRAS on tube pendant, 1 pc	0207872
TRAS-V	Trunking connector for TRAS, 1pc	0207860
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888
VLSPS	Tension hook, 30mm adjustment path, max.20kg, 1 pc	0205889
VLSPSO-KH	Tension hook w. loop and carabiner adj. 50 mm, max. 20kg 1pc	0208347
ZSP-SK-3M	Wire pendant loop clamp, D=2.0mm, L=3.0m, 1pc, max. 45kg	0207880

## TRAL accessories for suspended installation with trunking






Model	Description	Prod. code
SLKG	S chain link, max.20kg, per unit	0200906
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
TRAL 3200	Aluminium trunking, L= 3.2 metre	0201439
TRAL 4800	Aluminium trunking, L= 4.8 metre	0201438
TRAL-A	Trunking hanger for TRAL	0201436
TRAL-BEF	Luminaire fixing for TRAL, 1 set = 1pc	0201437
TRAL-V	Trunking connector for TRAL	0201435
VLBP	Plate with loop for ceiling fixing. max. 20kg, 1 pc	0205887
ZSP-SK-3M	Wire pendant loop clamp, D=2.0mm, L=3.0m, 1pc, max. 45kg	0207880


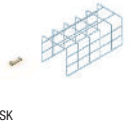

## VLTO accessories for suspended installation with trunking



Model	Description	Prod. code
SLKB 3-7	Quick fixing for L and T supports, A=3 - 7mm, with loop	0200907
SLKB 8-13	Quick fixing for L and T supports, A=8- 13mm, with loop	0200908
SLKBT	Quick fixing for system ceilings, with loop	0200910
SLKBT M6x16	Quick fixing for system ceilings, with thread M6x16	0200912
SLKBTR M6	Quick fixing for trapezoidal sections, loop bolt M6	0201525
SLKG	S chain link, max.20kg, per unit	0200906
TRA 008	Galvanised chain, max. 20kg , weight 0.25 kg/m	0200251
VLB .36	Dummy cover, L=1237 mm, IP20, white	1500049
VLB .36 SI	Dummy cover, L=1237 mm, IP20, silver	1500049SI
VLB .58	Dummy cover, L=1537 mm, IP20, white	1500050
VLB .58 SI	Dummy cover, L=1537 mm, IP20, silver	1500050SI
VLBK 361	Dummy cover, L=1237mm, IP20, white plastic	1205188
VLBK 361 SI	Dummy cover, L=1237mm, IP20, silver plastic	1205188SI
VLBK 363	Dummy cover, IP20, L=3711mm, white plastic	1205189
VLBK 363 SI	Dummy cover, IP20, L=3711mm, silver plastic	1205189SI
VLBK 581	Dummy cover, L=1537mm, IP20, white plastic	1205105
VLBK 581 SI	Dummy cover, L=1537mm, IP20, silver plastic	1205105SI
VLBK 583	Dummy cover, L=4611mm, IP20, white plastic	1205008
VLBK 583 SI	Dummy cover, L=4611mm, IP20, silver plastic	1205008SI
VLBKK-AP	Safety clamp for VLBK, natural 1 pc	0206551AP
VLBKK-M5	for luminaire fixture to VLT-... screw M5, max. 4 kg, 1 pc.	0206556
VLBP	Plate with loop for ceiling fixing, max. 20kg, 1 pc	0205887
VLG-KB	Safety clamp for VLB, white, 1 pc.	0206905
VLG-KB-AG	Safety clamp for VLB, silver, 1 pc.	0206905AG
VLKH	Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc	0205888
VLKL	Cable channel with clips, L=4600mm	0205775
VLSPS	Tension hook, 30mm adjustment path, max.20kg, 1 pc	0205889
VLSPSO-KH	Tension hook w. loop and carabiner adj. 50 mm, max. 20kg 1pc	0208347
VLTB	For luminaire fixing at VLT-... screw M5, max. 20 kg, 1 pc	1205260
VLTE	Trunking end cap, white, plastic, 1 pc	0205791
VLTE SI	Trunking end cap, silver, plastic, 1 pc	0205791SI
VLTHA	Chain suspension hanger adjustable nut, 1 pc	0205792
VLTHB	Chain suspension hanger, quick adjustment, 1 pc	0205685
VLTHD	Hanger for ceiling mounting, max. 20kg, 1 pc	0205794
VLTHD-H10	Hanger for ceiling mounting H=10mm, max. 20kg, 1 pc.	0205930
VLTHD-H10-WS	Hanger for ceiling mounting H=10mm, white max. 20kg, 1 pc.	0205930BA
VLTHDS	Chain suspension hanger, angular mounting, max 20kg, 1 pc	0205222
VLTHP	Hanger for 13.5mm dia. pendant tubes, 1pc	0205793
VLTHS	Hanger with wire 1.5m + ring loop, 1 pc.	0205922
VLTHSD	Hanger with wire 1.5m + ceiling fixing, 1 pc.	0205921

Model	Description	Prod. code	
			VLTHSS Hanger with wire 1.5m + ceiling fixing, inclined ceilings, 1 pc 0205920
			VLTHST Wire pend. f. syst. ceil. 24-26mm T, max 10kg, 1.5m, 1 pc 0207943
			VLHT Hanger for T bar system ceilings, 1 pc 0205788
			VLHT 0° Hanger for system ceilings, below T bar, no gap 0208286
			VLHT 90° Hanger for system ceilings, 90° to T bar, no gap 0208285
			VLTKS Hanger f. chain, angled mounting to 45° w. 1 clamping screw 0205886
			VLTLA Ext. cable retainer max. 2 x dia.13mm + 1 x dia.7mm, 1 pc 0205760
			VLTLJ Internal cable retainer, 10 units, observe instructions 0205761
			VLTLJK Internal cable retainer, plastic, 10 units, observe instructions 0208310
			VLT0 361 Trunking 36W, 1-length L=1237mm, no through wiring, white 1500001
			VLT0 361 SI Trunking 36W, 1-length L=1237mm, no through wiring, silver 1500001SI
			VLT0 362 Trunking 36W, 2-length L=2474mm, no through wiring, white 1500002
			VLT0 362 SI Trunking 36W, 2-length L=2474mm, no through wiring, silver 1500002SI
			VLT0 363 Trunking 36W, 3-length L=3711mm, no through wiring, white 1500003
			VLT0 363 SI Trunking 36W, 3-length L=3711mm, no through wiring, silver 1500003SI
			VLT0 581 Trunking 58W, 1-length L=1537mm, no through wiring, white 1500004
			VLT0 581 SI Trunking 58W, 1-length L=1537mm, no through wiring, silver 1500004SI
			VLT0 582 Trunking 58W, 2-length L=3074mm, no through wiring, white 1500005
			VLT0 582 SI Trunking 58W, 2-length L=3074mm, no through wiring, silver 1500005SI
			VLT0 583 Trunking 58W, 3-length L=4611mm, no through wiring, white 1500006
			VLT0 583 SI Trunking 58W, 3-length L=4611mm, no through wiring, silver 1500006SI
			VLTV IP20 and IP54 trunking connector, 1 pc 1205790
			VLTVA External trunking connector IP20 0206548
			VLTVA-AG Ext. trunking connector IP20, silver similar to RAL 9006 0206548AG
			VLTVD IP 54 trunking seal, 1 pc 1205789
			VLTVD-AD Trunking seal silver for IP54, 1 pc. 1205789AD
			VLTW Hanger for angled mounting 30°, 45°, 60° ceiling (wall), 1 pc. 0205885
			ZRP 050 Tube pendant 500mm w. canopy, M13x1, white, 1set = 1 pc 0200246
			ZRP 050 SI Tube pendant 500mm w. canopy, M13x1, silver 1set = 1 pc 0200246SI
			ZRP 100 Tube pendant 1000mm w. canopy, M13x1, white, 1set = 1 pc 0200247
			ZRP 100 SI Tube pendant 1000mm w. canopy, M13x1, silver 1set = 1 pc 0200247SI
			ZRPA Hanger for shortened tube pendant, D13 0050564
			ZRPK Tube pendant 114mm with canopy 1 set = 1pc 0200483
			ZSP-SK-3M Wire pendant loop clamp, D=2.0mm, L=3.0m, 1pc, max. 45kg 0207880

**Additional accessories for VLT0 (VLT ...) are featured in the chapter LINIA.**

Model	Description	Prod. code	
			10-042 Plastic luminaire hanger for class II protection luminaires 0210042
			SK 118 Wire guard LxWxH=700x120x140 f. hostile env./s.m. lum. 0210108
			SK 136 Wire guard LxWxH=1300x120x140 f. hostile env./s.m. lum. 0210109
			SK 158 Wire guard LxWxH=1600x120x140 f. hostile env./s.m. lum. 0210110
			SK 218 Wire guard LxWxH=700x220x140 f. hostile env./s.m. lum. 0210111
			SK 236 Wire guard LxWxH=1300x220x140 f. hostile env./s.m. lum. 0210112
			SK 258 Wire guard LxWxH=1600x220x140 f. hostile env./s.m. lum. 0210113
			SLKG S chain link, max.20kg, per unit 0200906
			TRA 008 Galvanised chain, max. 20kg , weight 0.25 kg/m 0200251
			TRA-002 Luminaire hanger M5 x 20 swing hooks, galvanized steel 0200223
			TRA-003 Hanger, M5x40, swing hooks, galvanized steel, for PCAG+PCAMI 0200227
			VLKH Carabiner hook, dimensions 50x25x5, max. 20kg, 1pc 0205888
			VLSPS Tension hook, 30mm adjustment path, max.20kg, 1 pc 0205889
			ZSP-SK-3M Wire pendant loop clamp, D=2.0mm, L=3.0m, 1pc, max. 45kg 0207880
			ZUSPS Wire pendant for hostile env. luminaires, 1.5m, 1 set = 1 pc 0201257

# Emergency lighting and light control

## Accessories, emergency luminaire installation and retrofit kits

RIDI offers various possibilities for using standard louvre or diffuser luminaires in systems conforming to VDE 0108 by the additional installation of an emergency lighting element. These emergency lighting elements can be retrofitted on installation, or have to be integrated in the factory.

### Central supply

The emergency luminaires are supplied from a group supply source, either a central battery system or emergency back-up generator. Using a central battery system, emergency devices and luminaires are supplied without power limitation, i.e. the capacity of the central battery system corresponds with the total requirements of the emergency luminaires to be supplied. Group battery systems are subject to an output limitation and also a restriction of the number of operated emergency luminaries.

For emergency supply from a central battery, we offer two alternative versions:

1. LED converter with switchover device (maintained switching )  
The relay switches from mains power to emergency supply in the event of a power failure.
2. LED converter without switchover device (Non-maintained switching )  
Central switchover to emergency supply  
The luminaire only functions for emergency operations.

### Independent supply

For independent supply, the emergency lighting component (inverter) is used in conjunction with maintenance-free rechargeable NiCd or NiMH batteries. The unit supplies the lamp or LED in a security mode. A charging and control device is integrated in the system. The batteries are protected against over and under charging. As the inverter is fully integrated into the luminaire, factory fitting is recommended.

Independent supply with self-test type NLE-S-LED in accordance with EN62034

LED status display: The independent supply status is indicated by a dual-colour LED:

Green LED:	Power supply available, correctly connected battery and lamp
Blinking red LED:	Power supply available, battery not connected or malfunctioning
Intermittently blinking red LED:	Lamp defective or disconnected
LED off:	Power supply interruption, supply voltage below 160 V, battery fully discharged or defective emergency lighting element

The batteries are designed with a capacity for rated operation of 1 hour or 3 hours. When planning emergency operation with LED luminaires, an output of around 3 watts may usually be assumed. The light flux in emergency mode can therefore be simply calculated on the basis of luminaire efficiency.

LED luminaires are available for non-maintained and maintained switching.

### Non-maintained switching

Non-maintained switched luminaires are only operational (emergency lighting function) when the main power supply fails.

### Maintained switching

Maintained luminaires are constantly supplied by the main power supply and the electronic ballast. In the event of a power failure, they switch over to battery supply via the emergency light. Both switching systems are available for a rated running time of 1 and 3 hours.

## Light control and light management

Many users of lighting systems are no longer satisfied with merely switching lights on and off.

Many reasons can be listed in favour of installing simple lighting controls through to complex lighting management systems, including

- improving economy
- increasing lighting convenience
- enabling individuality
- tunable white

These requirements are no longer restricted to commercial users of lighting systems: the benefits of lighting convenience and individually adjustable and storable lighting scenarios and lighting levels are in demand both for public and private use.

This way of using a lighting system requires advance planning of the switching conditions and selection of suitable luminaires with control gear which are capable of being integrated into the required lighting system.

The digital control signal DALI (Digital Addressable Lighting Interface) is required for communication between the individual components of a lighting system.

DALI is an industry-wide interface standard used by different manufacturers for dimmable electronic ballasts, and offers more functionality coupled with simple handling compared to analogue 1-10V technology. A dual-core control cable allows a maximum of 64 DALI control units to be actuated individually or jointly with the utmost flexibility.

Depending on the requirements imposed on the lighting system, optional system sensors allow maximum energy savings to be achieved. Depending on the DALI system, sensors for daylight-dependent constant light control and/or movement sensor modules for presence-dependent control are available.




### RIDI Smart Control

RIDI Smart Control allows you to control luminaires using an intuitive, highly visual user interface with the utmost simplicity using a smartphone or tablet. This handy app turns lighting into a whole new experience and can be used with practically any RIDI, Spectral and li:fy LED light fittings and luminaires.

### Tunable white / human-centric lighting

Light impacts on human wellbeing, shapes our daytime and nighttime rhythm and has been proven to influence our ability to concentrate. Human health and the influence of artificial light on human wellbeing form the focus here. The spectral composition of this artificial light and its illumination level are guided by the progression of natural daylight and attempt to simulate this as far as possible.

These parameters are instrumental in determining whether the light has a relaxing or an activating effect.

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# U-LINE-NL

## Surface-mounted emergency luminaire series U-LINE-NL

**Design:** Surface-mounted escape route sign luminaire fitted with LEDs. Stable luminaire housing in natural anodised sectional aluminium, end caps in natural anodised aluminium, cover in in natural anodised aluminium with opening for pictogram. Gear tray accommodates the electrical components and pictogram fixture. Recognition distance 32 metres.

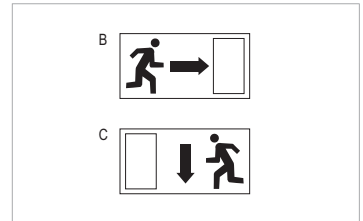
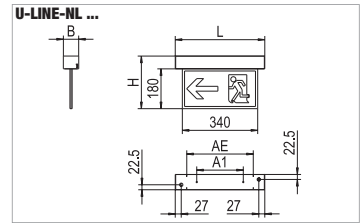
**Electrical equipment:**

- LED module, Output 1 Watt
- Inverter with storage battery for lighting operation 3h (EDB3/EDBS3)
- Mains voltage 220-240 V, 50-60 Hz
- Optionally maintained or non-maintained mode
- Types with self-test (EDBS3) or without self-test (EDB3)
- Connector block 4x2.5 mm<sup>2</sup>
- Prefitted high-temperature battery

**Mounting:** Ceiling mounting with standard available screw material. Pendant mounting with 2 wire pendants, see accessories.

**Safety symbol**

Made of PC with safety symbol. Printed symbol for optimum recognition. Symbol type: The symbol type is contained in the product designation (e.g. U-LINE-NL-LED B... with symbol type B, U-LINE-NL-LED C... with symbol type C). Symbol visible on both sides.



**Special versions:**

- Designs with self-test and communication.



**U-LINE-NL ...**

Model	Lamps	L	Dimens. (mm)			el. conv. Prod. code	
			B	H	A1		
U-LINE-NL-LED B EDB3 32M NE	1xLED-M 1,1 W	404	69	237	210	300	0627356AF
U-LINE-NL-LED B EDBS3 32M NE	1xLED-M 1,1 W	404	69	237	210	300	0627220AF
U-LINE-NL-LED C EDB3 32M NE	1xLED-M 1,1 W	404	69	237	210	300	0627357AF
U-LINE-NL-LED C EDBS3 32M NE	1xLED-M 1,1 W	404	69	237	210	300	0627355AF

**Note:** Recognition distance as per DIN 4844

## Accessories



Model	Description	Prod. code
ZSPT2Z 120	Y wire pendant with ceiling fixture, cyl. 1.5 m, 1 pc	0203582



## Surface-mounted emergency luminaire series VENICE-A-NL ...

**Design:** Surface-mounted escape route sign luminaire fitted with LEDs. Stable luminaire housing in natural anodised sectional aluminium, end caps in natural anodised aluminium, cover in in natural anodised aluminium with opening for pictogram. Gear tray accommodates the electrical components and pictogram fixture. Recognition distance 32 metres.

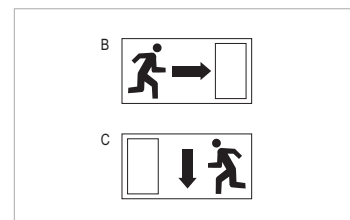
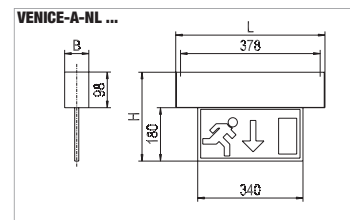
### Electrical equipment:

- LED module, Output 1 Watt
- Inverter with storage battery for lighting operation 3h (EDB3/EDBS3)
- Mains voltage 220-240 V, 50-60 Hz
- Optionally maintained or non-maintained mode
- Types with self-test (EDBS3) or without self-test (EDB3)
- Connector block 4x2.5 mm<sup>2</sup>
- Prefitted high-temperature battery

**Mounting:** Ceiling mounting with standard available screw material. Pendant mounting with 2 wire pendants, see accessories.

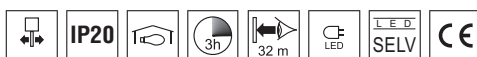
### Safety symbol

Made of PC with safety symbol. Printed symbol for optimum recognition. Symbol type: The symbol type is contained in the product designation (e.g. VENICE-A-NL-LED B... with symbol type B, VENICE-A-NL-LED C... with symbol type C). Symbol visible on both sides.



### Special versions:

- Designs with self-test and communication.



acc. to VDE 0108 / DIN EN 50172



### VENICE-A-NL ...

Model	Lamps	Dimens. [mm]			el. conv. Prod. code
		L	B	H	
VENICE-A-NL-LED B EDB3 32M NE	1xLED-M 1,1 W	404	67	279	1627223AF
VENICE-A-NL-LED B EDBS3 32M NE	1xLED-M 1,1 W	404	67	279	1627225AF
VENICE-A-NL-LED C EDB3 32M NE	1xLED-M 1,1 W	404	67	279	1627224AF
VENICE-A-NL-LED C EDBS3 32M NE	1xLED-M 1,1 W	404	67	279	1627226AF

**Note:** Recognition distance as per DIN 4844

## Accessories



Model	Description	Prod. code
VLDHD	Ceiling mounting VLD, H=12.5mm, lengthwise adjustment, 1 pc	0202590
VLDHK	Chain fixing for VLD, lengthw. adjustment, 1 pc	0202596
VLDHP 050	Tube pendant VLF/VLDF/VLDGT w. canopy, 500mm, white	0202593
VLDHP 050 SI	Tube pendant VLF/VLDF/VLDGT w. canopy, 500mm, silver	0202593SI
VLDHP 100	Tube pendant VLF/VLDF/VLDGT w. canopy, 1000mm, white	0202594
VLDHP 100 SI	Tube pendant VLF/VLDF/VLDGT w. canopy, 1000mm, silver	0202594SI
VLDHS	Wire pendant VLD w. ring loop, lengthw. adj. 1 pc	0202591
VLDHSB	Wire pendant VLD with ceiling fixture, 1 pc.	0204639
VLDHSB SI	Wire pendant VLD with ceiling fixture, silver, 1 pc.	0204639SI
VLDHSD	Wire pendant VLD w. ceiling fixing, lengthw. adj. 1 pc	0202592
VLDHST	Wire pend. f. syst. ceil. 24-26mm T, max 10kg, 1.5m, 1 pc	0202901
VLDHT	Quick fixing f. syst. ceil. VLD, H=12.5mm, lengthw. adj.	0202595
VLDHW	Wall fixing for VLD, lengthw. adj., white, 1 pc	0202597
VLDHW-SI	Wall fixing for VLD, lengthw. adj., silver 1 pc	0202597SI

## Surface-mounted emergency luminaire series VENICE-E-NL ...

**Design:** Surface-mounted escape route sign luminaire fitted with LEDs. Stable luminaire housing in natural anodised sectional aluminium, end caps in natural anodised aluminium, cover in in natural anodised aluminium with opening for pictogram. Gear tray accommodates the electrical components and pictogram fixture. Recognition distance 32 metres.

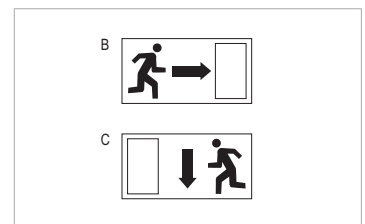
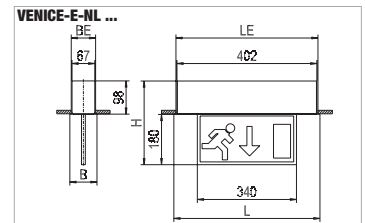
### Electrical equipment:

- LED module, Output 1 Watt
- Wechselrichter mit Akku für Brenndauer 3h (EDB3/EDBS3)
- Mains voltage 220-240 V, 50-60 Hz
- Optionally maintained or non-maintained mode
- Types with self-test (EDBS3) or without self-test (EDB3)
- Connector block 4x2.5 mm<sup>2</sup>
- Prefitted high-temperature battery

**Mounting:** Ceiling mounting in sawn ceiling openings with mounting on the unfinished ceiling or with recessed mounting kit, see accessories. 1 kit required per luminaire.

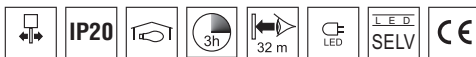
### Safety symbol

Made of PC with safety symbol. Printed symbol for optimum recognition. Symbol type: The symbol type is contained in the product designation (e.g. VENICE-E-NL-LED B... with symbol type B, VENICE-E-NL-LED C... with symbol type C). Symbol visible on both sides.



### Special versions:

- Designs with self-test and communication.



acc. to VDE 0108 / DIN EN 50172



### VENICE-E-NL ...

Model	Lamps	L	Dimens. (mm)			LE*	BE*	el. conv. Prod. code
			B	H				
VENICE-E-NL-LED B EDB3 32M NE	1xLED-M 1,1 W	420	67	279	408	72	1827539AF	
VENICE-E-NL-LED B EDBS3 32M NE	1xLED-M 1,1 W	420	67	279	408	72	1827541AF	
VENICE-E-NL-LED C EDB3 32M NE	1xLED-M 1,1 W	420	67	279	408	72	1827540AF	
VENICE-E-NL-LED C EDBS3 32M NE	1xLED-M 1,1 W	420	67	279	408	72	1827542AF	

\* Ceiling cut-out

**Note:** Recognition distance as per DIN 4844

## Accessories



VENICE-E-DB

Model	Description	Prod. code
VENICE-E-DB	Recessed ceiling mounting kit for VENICE-E, 1 pc	1208008

## Central emergency power supply with back-up supply of 220 V

In response to customer request, downlighters can be equipped for different emergency lighting applications and with various components. There are three basic alternatives available:

1. Electronic ballast/LED Converter. Operation for example through the maintained lighting circuit of the central battery system or emergency power generator.

2. Electronic ballast/LED Converter with changeover device in accordance with DIN VDE 0108. Operation for example through the non-maintained lighting circuit of the central battery system or emergency power generator. These can be mounted in almost all ADL./EDL. luminaire series. For standard EDLR/EDLQ luminaires, accessory UGEBD...-UR can be used. This is a gear tray with changeover relay and connector block. This accessory must be installed in addition to the standard luminaire. Its use eliminates the need for a special emergency luminaire design.



### UGEBD-UR



Model	Description	Prod. code
UGEBD-UR	Changeover relay for EBD..., (not for HIT lamps)	0201069



## Emergency luminaire installation and retrofit kits



### NLE-S-LED-CLIP

LED emergency lighting module 3 Watt, 109lm, with inverter and NiMH battery for single supply and self test. Non-maintained mode, 3 h operation, status display by means of two-colour LED, reliable supply voltage 220-240 V, 50-60 Hz. Metal clip for mounting on T16 or T26 lamp, cable length 500mm.

Dimensions:

- LED module: dia. 22 x H23
- Inverter: W28 x H21 x L148
- Battery: D18 x L152

Model	Description	Prod. code
NLE-S-LED-CLIP	Emergency light LED 3W self test, 3h, clip-T16 + T26	0208437



### NLE-S-LED-E

LED emergency lighting module 3 Watt, 109lm, with inverter and NiMH battery for single supply and self test. Non-maintained mode, 3 h operation, status display by means of two-colour LED, reliable supply voltage 220-240 V, 50-60 Hz. LED module with rim dia. 27 for mounting in dia. 22mm recess, cable length 500mm.

Dimensions:

- LED module: dia. 27 x H24
- Inverter: W28 x H21 x L148
- Battery: D18 x L152

Model	Description	Prod. code
NLE-S-LED-E	Emergency light LED 3W self test, 3h, prefitted	0208438



### NLE-ELUNIT-LED

Emergency lighting element (inverter) for individual power with self-test. For electronic LED converters. 5-core isolation during emergency lighting operation.

Nominal operating time of 1 hour equipped with NiCd battery or 3 hours with NiMH battery, status display with two-colour LED. Permissible supply voltage 220-240 V, 50-60 Hz, IP 20.

Dimensions:

- Inverter L x W x H = 210 x 32 x 21 mm
- Battery 1 h. 2x Ø 22 mm, L 90 mm
- Battery 3 h. 2x Ø 18 mm, L 180 mm

TA max for battery 50°C, performance delivered by the inverter, max. 3 W

Model	Description	Prod. code
NLE-ELUNIT-LED-S 50V/3W/1H/4SC	Emergency lighting element self test, NiCd battery, status LED, 1 hour	0208993
NLE-ELUNIT-LED-S 50V/3W/3H/4LA	Emergency lighting element self test, NiMH battery, status LED, 3 hours	0208995



### Emergency lighting switchover relay

Switchover relay for central power supply with AC 230 V or DC 230 V.

UR 250W-LP with small dimensions for use in filigree T16 luminaires.

UR 250W for use in T26 luminaires and larger T16 luminaires.

Model	Description	Prod. code
UR 250W	Changeover relay 250W, dimensions 100X40X27	0208177
UR 250W-LP	Changeover relay 250W, dimensions 78X30X21	0208176

## RIDI Smart Control

For the control of switchable and dimmable luminaires, comprising a control module and an app for smartphones or tablets. The control modules in RIDI Smart Control establish a wireless network between the luminaires, allowing control from any location. Connection between the luminaires using an additional control cable is not required, a mains supply cable is sufficient. Communication between the components takes place using Bluetooth exclusively. The control module is switched upstream of the luminaire control gear.

Using the app, tapping and swiping movements are used to switch and dim the luminaires, configure groups and form lighting scenes. Depending on how the luminaires are equipped, colours (RGB) or white tones (tunable white) can be changed.

The function of existing wall switches can be extended with a "Smart Switch", i.e. luminaires can be switched and dimmed, and scenes selected and accessed using the wall switch.

Factory prefitting in new luminaires or retrofitting in existing luminaires is handled by an electrician.

The "Casambi" app is available free of charge from the Apple App Store or Google Play Store. Supported devices: iPhone 4S, iPhone 5, iPhone 5S, iPhone 5C, iPad (3G), iPad (4G), iPad Air, iPad mini, iPod touch (5G) and Android Version 4.4 KitKat or higher with BLE (Bluetooth Low Energy).

Protection rating: IP20

Voltage: 230V/50Hz

### Highlights:

- Simple installation
- No control cables
- Intuitive app control
- Up to 128 modules in one network
- DALI
- Free app
- No additional gateways required
- Range up to 20 metres indoors

### Non-standard designs:

- RGB colour control
- Tunable white



Model	Description	Prod. code
MODUL RIDI SMART CONTROL DALI	DALI single module, for customer installation	0212531
RIDI SMART CONTROL DALI	DALI control element, factory prefitting	0212530



### RIDI Smart Control Touch Interface

- 4-button touch interface
- Bring up scenes
- Switch and dim individual luminaires and luminaire groups
- Configuration using the Casambi app
- Ambient temperature: 0...+40 °C
- Protection class: II
- Protection rating: IP20
- Power supply 230 V AC, 50 Hz

Model	Description	Prod. code
RIDI SMART CONTROL SC-TI-CAS	4-button touch interface for RIDI SMART CONTROL	0209024



### RIDI Smart Control Wireless Interface

- Wireless interface
- 4 buttons to bring up scenes and animations or to control individual luminaires or luminaire groups
- 2 dimmer buttons and 2 buttons to change the colour temperature
- Configuration using the Casambi app
- Black or white colour

Model	Description	Prod. code
RIDI SMART CONTROL XPRESS SW	Casambi light switch/remote control, black	0206970SW
RIDI SMART CONTROL XPRESS WS	Casambi light switch/remote control, white	0206970



## Rotary/touch dimmer



### DALI-MCU

- DALI rotary dimmer with integrated DALI supply for up to 25 DALI control gears
- Up to 4 DALI-MCU connectable in parallel (max. 100 DALI control gears)
- Automatic synchronisation between control points
- Cover and rotary switch in neutral white
- Simple installation
- Intuitive manual dimming and switching
- No addressing required
- Capable of integration in standard switch ranges
- Ambient temperature: 0...+50 °C
- Protection class: II
- Protection rating: IP20
- DALI control cable length up to 300 m

Model	Description	Prod. code
DALI-MCU	DALI rotary dimmer for a maximum of 25 DALI ballasts	0203376



### DALI-PCU

- DALI touch dimmer with integrated DALI supply for up to 25 DALI control gears
- Up to 4 DALI-PCU connectable in parallel (max. 100 DALI control gears)
- Automatic synchronisation between control points
- Can be combined with standard presence and motion sensors with mains contact
- Configurable behaviour in the case of power failure
- Cover and rotary switch in neutral white
- Simple installation
- Intuitive manual dimming and switching
- No addressing required
- Capable of integration in standard switch ranges
- Ambient temperature: 0...+40 °C
- Protection class: II
- Protection rating: IP20
- DALI Edition 2 (IEC 62386 ed. 2) implemented
- DALI control cable length up to 300 m

Model	Description	Prod. code
DALI-PCU	DALI touch dimmer for a maximum of 25 DALI ballasts	0209023

## Tunable White Basic (no time function)

### Tunable White Basic

Manual white-white control for colour temperature/brightness

- Controller for 2 DALI groups with the following optional operating modes:
  - Mixed white: Set a colour temperature for the light by controlling DALI Groups with cold/warm white light colour.
  - Single circuit: Individual control of 2 DALI Groups
- 2 DALI interfaces for connection of DALI dimmable ballasts (DALI device type 6)
  - Broadcast mode: Control of 2 DALI groups with separate control cable and without addressing the ballast; max. 16 ballasts per group
  - Addressing mode: Control of 2 DALI groups using the same interface with common control cable and ballast addressing; max. 16 ballasts
- Manual control of the lighting system using two standard available buttons:
  - ON/OFF and brightness control
  - ON/OFF and colour temperature control
- Easily adjustable parameters and functions using DIP switches for wide-ranging applications.



Model	Description	Prod. code
DALI-LG-TW-CONTR-BASIC	Tunable White Basic control unit for button	0208887

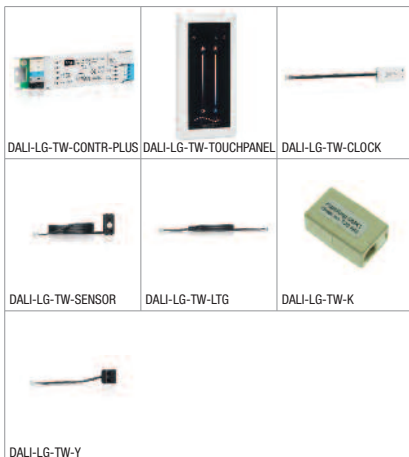
## Tunable White Plus (with time function)

### Tunable White Plus

Automatic white-white control depending on time of day

Automatic circadian rhythm: real time clock function (RTC), programmable using smartphone app

- Manual control of the lighting system using:
  - Touch panel DALI-LG-TW-TOUCHPANEL
  - Standard available buttons (functions individually adjustable) in combination with a clock module or touch panel.
- Automatic control using:
  - Touch panel DALI-LG-TW-TOUCHPANEL or
  - Clock module DALI-LG-TW-CLOCK
- 2 DALI-interfaces for connection of DALI dimmable ballast (DALI device type 6)
  - Broadcast mode: Control of 2 DALI groups with separate control cable and without addressing the ballast; max. 16 ballasts per group
  - Addressing mode: Control of 2 DALI groups using the same interface with common control cable and ballast addressing; max. 16 ballasts
- Extender in combination with a controller for a higher number of ballasts; 2x16 addresses per extender, max. 3 extenders per controller.
- Automatic circadian rhythm: real time clock function (RTC), programmable using the "Lightgate MW" smartphone app  
Using this app, you can quickly and easily program circadian lighting scenes with corresponding colour gradients and illumination intensities using an iPhone.  
iOS Version 8.1 and flashlight required.



### DALI-LG-TW Plus

Model	Description	Prod. code
DALI-LG-TW-CLOCK	Tunable White real time clock for Plus control unit	0208889
DALI-LG-TW-CLOCK-NFC	Tunable White real time clock for control unit, NFC capable	0208998
DALI-LG-TW-CONTR-EXTENDER	Extender, max. 3 per control unit	0209000
DALI-LG-TW-CONTR-PLUS	Tunable White Plus control unit for button or automatic	0208888
DALI-LG-TW-EBS-KIT	Recessed housing for Tunable White sensor	0208880
DALI-LG-TW-K	Coupling for data cable	0208886
DALI-LG-TW-LTG-10M	Data cable 10 metres	0208883
DALI-LG-TW-LTG-20M	Data cable 20 metres	0208884
DALI-LG-TW-LTG-2M	Data cable 2 metres	0208881
DALI-LG-TW-LTG-5M	Data cable 5 metres	0208882
DALI-LG-TW-SENSOR	Tunable White light and presence sensor	0208891
DALI-LG-TW-TOUCHPANEL	Tunable White touch panel with real time clock for Plus control unit	0208890
DALI-LG-TW-TOUCHPANEL-NFC	TW touch panel with real time clock for control unit, NFC capable	0208999
DALI-LG-TW-Y	Y-splitter for data cable	0208885



# DALI digital light control

## DALI ActiLume

The simple and efficient ActiLume lighting control system consists of a sensor and control unit integrated in the luminaire.

The sensor unit is fitted with three sensors:

- Light sensor for daylight-dependent control
- Motion sensor module for presence-dependent control
- IR receiver for optional remote operation

ActiLume permits the lighting system to be switched on and off automatically depending on presence in the room, and automatically adjusts the setting in line with the degree of incident daylight. This allows energy savings of up to 75%.

There are 10 different operating modes programmed in the factory. These can be accessed using the service key at the sensor unit (mode 1 and 2) or using the remote control.



### DALI-AL2

- Control unit for luminaire mounting
- The controller can control and manage up to 25 control gears
- These may be assigned to up to 4 groups
- Configuration using remote control and/or "MultiOne" interface and software

Model	Description	Prod. code
DALI-AL2	Controller, Philips ActiLume II, recessed, max. 25 DALI ballasts	0209027



### DALI-AL2-PIR

Multisensor for brightness and motion detection

Model	Description	Prod. code
DALI-AL2-PIR	Multisensor for brightness and motion, Philips ActiLume II	0209028



### DALI-AL2-LCU2070

Group module to connect 4 floating contacts to the DALI-AL2

Model	Description	Prod. code
DALI-AL2-LCU2070	Group module for 4 floating contacts, Philips ActiLume II	0209029



### DALI-AL2-LCU2071

Scene module to connect 4 floating contacts to the DALI-AL2

Model	Description	Prod. code
DALI-AL2-LCU2071	Scene module for 4 floating contacts, Philips ActiLume II	0209030



### DALI-AL-FB

Programmable remote control for commissioning.

Model	Description	Prod. code
DALI-AL-FB	DALI ActiLume infrared remote control for programming	0208514



### DALI-AL-PIR

Extension sensor for motion detection.  
For ceiling mounting.

Model	Description	Prod. code
DALI-AL-PIR	Extension sensor for motion detection, max. height 3.5 m	0208308



### DALI-AL-PIR2

Extension sensor for motion detection.  
For mounting in the luminaire.

Model	Description	Prod. code
DALI-AL-PIR2	Extension sensor, luminaire mounting, max. height 3.5 m	0208439



### DALI-AL-PIR2-A

Cover for DALI-AL-PIR2

Model	Description	Prod. code
DALI-AL-PIR2-A	Cover for DALI-AL-PIR2	0208440





**DALI-AL-PIR2-CLIP-T16**  
Sensor mount for T16 lamp

Model	Description	Prod. code
DALI-AL-PIR2-CLIP-T16	DALI-AL-PIR2 sensor mount for T16 lamp	0208441



**DALI-AL-PIR2-CLIP-T26**  
Sensor mount for T26 lamp

Model	Description	Prod. code
DALI-AL-PIR2-CLIP-T26	DALI-AL-PIR2 sensor mount for T26 lamp	0208442



# DALI digital light control

## DALI-ECO

Modular light control solution for individual and open-plan offices, corridors, washrooms, recreational rooms, classrooms and training spaces.

Up to 80% energy savings due to daylight and presence-dependent lighting control.

- Two DALI broadcast output channels (no DALI addressing required).
- Up to 2x16 DALI ballasts per controller.
- Individually parameterisable operating modes.
- Up to 8 control units can be synchronised for central presence detection and on/off switching
- Manual dimming using standard button or IR remote control
- Passive IR sensors for luminaires or ceiling mounting up to maximum height of 5 m.



### DALI-ECO

Model	Description	Prod. code
DALI-ECO	DALI ECO Controller	0208825



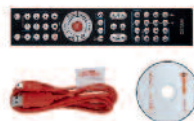
### DALI-ECO-SEN

Model	Description	Prod. code
DALI-ECO-SEN	DALI ECO Light and presence sensor	0208826



### DALI-ECO-SEN-PEW

Model	Description	Prod. code
DALI-ECO-SEN-PEW	DALI Extension presence sensor for DALI interface	0208827



### DALI-ECO-FB-PC-CONFIG

Model	Description	Prod. code
DALI-ECO-FB-PC-CONFIG	DALI ECO PC-KIT + remote control for configuration	0208828



### DALI-ECO-FB-USER

Model	Description	Prod. code
DALI-ECO-FB-USER	DALI ECO Remote control	0208829



### DALI-ECO-COUPLER

Model	Description	Prod. code
DALI-ECO-KOPPLER	DALI ECO Coupling for switch via DALI	0204846



### DALI-ECO-Y

Model	Description	Prod. code
DALI-ECO-Y	DALI ECO Y-connector for multiple sensors	0208831



### DALI-ECO-YS

Model	Description	Prod. code
DALI-ECO-YS	DALI ECO Y-connector with screw terminals	0208832



### DALI-ECO-EBC-KIT

Model	Description	Prod. code
DALI-ECO-EBC-KIT	DALI ECO Recessed ceiling installation housing for controller	0208833



## DALI-ECO-EBS-KIT

Model	Description	Prod. code
DALI-ECO-EBS-KIT	DALI ECO Recessed ceiling installation housing for sensors	0208834



## DALI-ECO-ABS-KIT

Model	Description	Prod. code
DALI-ECO-ABS-KIT	DALI ECO Surface ceiling installation housing for sensors	0208835



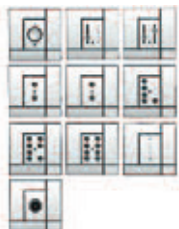
# DALI digital light control

## DALI DIGIDIM system

The DIGIDIM system is a DALI system offering a broad scope for adjusting a lighting system to user requirements. It can be operated using a control panel, remote control or convenient touch panel. Optional multisensors with integrated light and motion sensors offer potential for high energy savings. The system is programmed and monitored using the DIGIDIM software.

Protection rating: IP20

Voltage: 230V/50Hz



### DIGIDIM single module

Different modules for mounting in standard flush mounting box

Model	Description	Prod. code
DIGIDIM 2TE-AE-W	2 switch assembly on/off, white	0203824
DIGIDIM 2TE-HD-W	2 switch assembly, brighter/darker, white	0203825
DIGIDIM 5TE-W	5 switch assembly 4 lighting scenes /off, white	0203826
DIGIDIM 7TE-W	7 switch assembly 4 lighting scenes/bright-dark/off, white	0203827
DIGIDIM 8TE-W	8 switch assembly 7 scenes/off, white	0203828
DIGIDIM BLE-W	Dummy insert, white	0203829
DIGIDIM DPE-W	Rotary potentiometer insert, white	0203821
DIGIDIM DSRE-W	Double slide controller insert, white	0203823
DIGIDIM IRE-W	IR receiver insert, white	0203830
DIGIDIM PRA-W	Programming connection insert for DIGIDIM TBSP, white	0203831
DIGIDIM SRE-W	Slide controller insert white	0203822



### DIGIDIM front panel

Single frame, white, to fit a standard flush mounting box including flush mounting frame

Triple frame, white, to fit a horizontally mounted standard double flush mounting box including flush mounting frame

Model	Description	Prod. code
DIGIDIM FB 1	Single front panel, white	0203832
DIGIDIM FB 3	Triple front panel, white	0203833



### Multisensor

This component contains all sensors necessary to construct an energy-saving controlled lighting system, such as light sensor for daylight-dependent control, presence sensor and IR receiver for operation with a remote control.

Model	Description	Prod. code
DIGIDIM-ISEN315	Light and motion sensor, luminaire mounting, max. height 3 m	0208445
DIGIDIM MSEN	Light and motion sensor incl. IR receiver for recessed ceiling mounting	0203834



### DIGIDIM IR remote control

The remote control allows you to control all basic DIGIDIM system functions and carry out simple programming. With on/off, brighter/darker key and a 4-scene configuration key.

Model	Description	Prod. code
DIGIDIM IR-FB	IR remote control	0203835



### DIGIDIM 1000 W universal dimmer

1-channel leading or trailing edge dimmer for mounting on 35 mm DIN rail. Suitable for all dimmable loads. DIP switch for leading or trailing edge. Can be grouped using DIP switches or DIGIDIM software:

Model	Description	Prod. code
DIGIDIM UDIM	DALI 1000 W universal dimmer for DIN rail mounting	0203836



### 1-10 V/DSI converter

The DIGIDIM convertor supports dimmable electronic ballasts with 1-10 V interface as well as DSI ballasts to be connected to a DALI/DIGIDIM system.

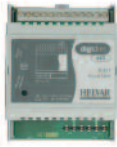
Model	Description	Prod. code
DIGIDIM-KV 4XDALI/1-10V/DSI	4-channel converter, DALI/1-10 V/DSI, DIN rail mounting	0208444
DIGIDIM KV DALI/1-10V/DSI	DALI/1-10 V/DSI converter for DIN rail mounting	0203837



**DIGIDIM relay module**

4-channel relay unit for mounting on 35 mm DIN rail. Provision of 4 floating contacts to switch external devices using the DALI system.

Model	Description	Prod. code
DIGIDIM RLM 4K	4-channel relay module for DIN rail mounting	0203838



**DIGIDIM input unit**

For mounting on 35 mm DIN rail. Suitable to connect external keys and switches or other devices providing floating contacts (such as time switches)

Model	Description	Prod. code
DIGIDIM INPM	Input module, 8 inputs, DIN rail mounting, cannot be combined with router	0203839
DIGIDIM INPM-R	Input module for router, 8 inputs for DIN rail mounting	0204968



**DIGIDIM mini input unit**

The flush mounting touch control unit provides 4 floating contacts for connection of external switches or buttons. The functions can be freely programmed using the DIGIDIM software.

Model	Description	Prod. code
DIGIDIM MINPM	Input module, 4 inputs mounting behind the switch	0203840



**DIGIDIM power supply**

Supplies the maximum permissible current of 250 mA for a DALI system. For mounting on a 35 mm DIN rail.

Model	Description	Prod. code
DIGIDIM STRVS	DALI power supply for DIN rail mounting	0203841



**DIGIDIM Toolbox**

The DIGIDIM Toolbox software runs on Microsoft® Windows and is used to program and monitor a DIGIDIM system.

Model	Description	Prod. code
DIGIDIM TBSP	DIGIDIM Toolbox software	0203842



**DIGIDIM touch panel**

- 3.5" user interface, high-resolution colour display
- Customer-specific background and key labels
- Supports time-dependent functions
- Integrated IR receiver
- Password protection
- Multiple programmable operating levels
- Functions as the central controller in the DALI network
- Programming directly at the panel

Model	Description	Prod. code
DIGIDIM TP	Touch panel for recess mounting, white, plastic panel	0203843



**DIGIDIM router**

The DIGIDIM router links multiple DALI networks using conventional Ethernet communication technology. Each router has 2 DALI outputs and can control up to 128 DIGIDIM or DALI controllers.

- 2 DALI lines with 64 users each
- Integrated 250 mA DALI power supply
- Ethernet connection for network backbone
- OPC interface for linkup to building management systems

Model	Description	Prod. code
DIGIDIM-R910	Router for 2 DALI circuits, network capable, DIN rail mounting	0208443



## Programming interfaces



### MultiOne Interface 8600

- Interface between "MultiOne" PC software and the DALI-AL2 control unit
- The "MultiOne" software is not suitable for commissioning a DALI line
- For exclusive use with "MultiOne" PC software

Model	Description	Prod. code
DALI-AL2-MULTIONE-INTERFACE	Interface between "MultiOne" PC software and DALI-AL2	0209032



### DALI magic

- Interface between "DALI Wizard" PC software and the DALI line to be configured
- The DALI magic client is used together with the "Dali Wizard" software for intuitive configuration of up to 64 DALI units
- DALI data flow logging function

Model	Description	Prod. code
USB PROGRAMMIERSCHNITTSTELLE	USB to DALI programming interface	0206969



# ALPHABETICAL INDEX

alphabetical

alphabetical  
**INDEX**



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### **Energy consumption labelling of electrical luminaires (EU Regulation 874/2012)**

The luminaire label used to indicate energy consumption contains information on the compatibility and the energy efficiency of any lamps supplied with the luminaire. It does not apply to the energy efficiency of the luminaire. The labels are available online at [www.ridi.de](http://www.ridi.de) in the product area as a PDF file available for download. The regulations state that they should be presented to the end user at the point of sale. The label does not form part of the packaging. The energy efficiency classes are listed on the following pages (EEC).

- <sup>1</sup> This luminaire is suitable for lamps of the specified energy classes.
- <sup>2</sup> This luminaire contains prefitted LED lamps of the specified energy classes. The lamps cannot be exchanged in the luminaire.
- <sup>3</sup> This luminaire is suitable for lamps of the specified energy classes and is sold with an energy class A lamp.
- <sup>4</sup> This luminaire is suitable for lamps of the specified energy classes and is sold with an energy class A+ lamp.
- <sup>5</sup> This luminaire is suitable for lamps of the specified energy classes and is sold with an energy class A++ lamp.
- <sup>6</sup> This luminaire contains prefitted energy class A++ - A lamps and has lamp bases for lamps of the specified energy classes. The LED lamps cannot be exchanged in the luminaire.

# Alphabetical product index

Model	UTE	EEC*	el. conv. xx = ND Prod. code	dim. conv. DALI xx = DA Prod. code	Page	Model	UTE	EEC*	el. conv. xx = ND Prod. code	dim. conv. DALI xx = DA Prod. code	Page
<b>ABR-L ... T</b>											
ABR-L 180/935-840 T	0.83C	A++A+	0650590	0660590	248	ADLR 235/... SMT					
ABR-L 280/1870-840 T	0.83C	A++A+	0650591	0660591	248	ADLR 235/2000-830 SMT	0.87A	A++-A <sup>2</sup>	0321927	0331927	266
ABR-L 380/2520-840 T	0.83C	A++A+	0650592	0660592	248	ADLR 235/2000-840 SMT	0.87A	A++-A <sup>2</sup>	0321928	0331928	266
ABR-L 480/3360-840 T	0.83C	A++A+	0650593	0660593	248	ADLR 235/3000-830 SMT	0.89A	A++-A <sup>2</sup>	0321929	0331929	266
ADLR 235/3000-840 SMT						ADLR 235/3000-840 SMT	0.89A	A++-A <sup>2</sup>	0321930	0331930	266
<b>ABR-R ... OS, IP 40</b>											
ABR-R1X120/250x-OS	0.61D	A+	0650110	0660110	104	<b>ADLR 235/... W</b>					
ABR-R1X150/400x-OS	0.61D	A+	0650116	0660116	104	ADLR 235/2000-830 W	0.99C	A++-A <sup>2</sup>	0321868	0331868	266
ABR-R2X120/250x-OS	0.77D	A+	0650129	0660129	104	ADLR 235/2000-840 W	0.99C	A++-A <sup>2</sup>	0321872	0331872	266
ABR-R2X150/400x-OS	0.77D	A+	0650135	0660135	104	ADLR 235/3000-830 W	0.99C	A++-A <sup>2</sup>	0321869	0331869	266
ABR-R4X055/150x-OS	0.77D	A++A+	0650147	0660147	104	ADLR 235/3000-840 W	0.99C	A++-A <sup>2</sup>	0321873	0331873	266
<b>ABR-R ... PS, IP 40</b>											
ABR-R1X120/250x-PS	0.66C	A+	0650109	0660109	104	<b>ADLR 410/... DPO</b>					
ABR-R1X150/400x-PS	0.66C	A+	0650115	0660115	104	ADLR 410/5000-840 DPO	1.00C	A++-A <sup>2</sup>	0321242	0331242	268
ABR-R2X120/250x-PS	0.66C	A+	0650128	0660128	104	ADLR 410/6000-840 DPO	0.99C 0.01T	A++-A <sup>2</sup>	0321246	0331246	268
ABR-R2X150/400x-PS	0.66C	A+	0650134	0660134	104	<b>ADLR 410/... DPS</b>					
ABR-R4X055/150x-PS	0.67C	A++A+	0650146	0660146	104	ADLR 410/5000-840 DPS	0.99C 0.01T	A++-A <sup>2</sup>	0321243	0331243	268
<b>ABR-R ... SM</b>											
ABR-R1X120/250x-SM	0.75C	A+	0650107	0660107	104	ADLR 410/6000-840 DPS	0.99C 0.01T	A++-A <sup>2</sup>	0321247	0331247	268
ABR-R1X150/400x-SM	0.75C	A+	0650113	0660113	104	<b>ADLR 410/... MPS</b>					
ABR-R2X120/250x-SM	0.75C	A+	0650126	0660126	104	ADLR 410/5000-840 MPS	1.00C	A++-A <sup>2</sup>	0321244	0331244	268
ABR-R2X150/400x-SM	0.75C	A+	0650132	0660132	104	ADLR 410/6000-840 MPS	0.99C 0.01T	A++-A <sup>2</sup>	0321248	0331248	268
ABR-R4X055/150x-SM	0.75C	A++A+	0650144	0660144	104	<b>ADLR 410/... OS</b>					
<b>ABR-R ... W</b>											
ABR-R1X120/250x-W	0.85C	A+	0650105	0660105	104	ADLR 410/5000-840 OS	1.00D	A++-A <sup>2</sup>	0321241	0331241	269
ABR-R1X150/400x-W	0.85C	A+	0650111	0660111	104	ADLR 410/6000-840 OS	0.99D 0.01T	A++-A <sup>2</sup>	0321245	0331245	269
ABR-R2X055/150x-W	0.85C	A++A+	0650117	0660117	104	<b>ABER-R ... SM</b>					
ABR-R2X120/250x-W	0.85C	A+	0650124	0660124	104	ABER-R1X085/250x-SM	0.87C	A++A+	0750042	0760042	107
ABR-R2X150/400x-W	0.85C	A+	0650130	0660130	104	ABER-R1X085/250x-SM SI		A++A+	0750042SI	0760042SI	
ABR-R4X055/150x-W	0.85C	A++A+	0650142	0660142	104	ABER-R1X115/300x-SM	0.87C	A++A+	0750045	0760045	107
ABER-R1X115/300x-SM SI						ABER-R1X115/300x-SM SI		A++A+	0750045SI	0760045SI	
<b>ABRB-R ... SM SET</b>											
ABRB-R1X115/300x-SM-SET	0.87C	A++A+	0650323/676		102	ABER-R2X085/250x-SM		A++A+	0750049	0760049	
ABRB-R1X145/350x-SM-SET	0.87C	A++A+	0650326/676		102	ABER-R2X085/250x-SM SI		A++A+	0750049SI	0760049SI	
ABRB-R2X115/300x-SM-SET	0.87C	A++A+	0650329/676		102	ABER-R2X115/300x-SM		A++A+	0750050	0760050	
ABRB-R2X145/350x-SM-SET	0.87C	A++A+	0650332/676		102	ABER-R2X115/300x-SM SI		A++A+	0750050SI	0760050SI	
<b>ABRB-R ... SM</b>											
ABRB-R1X115/300x-SM	0.87C	A++A+	0650323	0660323	102	<b>AIDA-P-R2X115/300x-SI</b>					
ABRB-R1X145/350x-SM	0.87C	A++A+	0650326	0660326	102	AIDA-P-R2X115/300x-SI		A++A+	0650356S	0660356S	89
ABRB-R2X115/300x-SM	0.87C	A++A+	0650329	0660329	102	AIDA-P-R2X145/350x-SI		A++A+	0650357S	0660357S	89
ABRB-R2X145/350x-SM	0.87C	A++A+	0650332	0660332	102	<b>AIDA-P-R3X115/300x-P</b>					
<b>ABRB-R ... W SET</b>											
ABRB-R1X115/300x-W-SET	0.79C	A++A+	0650324/676		102	AIDA-P-R3X115/300x-P		A++A+	0650375	0660375	91
ABRB-R1X145/350x-W-SET	0.79C	A++A+	0650327/676		102	AIDA-P-R3X115/300x-P-SI		A++A+	0650375SI	0660375SI	91
ABRB-R2X115/300x-W-SET	0.79C	A++A+	0650330/676		102	AIDA-P-R3X145/350x-P		A++A+	0650379	0660379	91
ABRB-R2X145/350x-W-SET	0.79C	A++A+	0650333/676		102	AIDA-P-R3X145/350x-P-SI		A++A+	0650379SI	0660379SI	91
<b>ABRB-R ... W</b>											
ABRB-R1X115/300x-W	0.79C	A++A+	0650324	0660324	102	<b>AIDA-P-R3... SM</b>					
ABRB-R1X145/350x-W	0.79C	A++A+	0650327	0660327	102	AIDA-P-R3X115/300x-SM		A++A+	0650373	0660373	91
ABRB-R2X115/300x-W	0.79C	A++A+	0650330	0660330	102	AIDA-P-R3X115/300x-SM-SI		A++A+	0650373SI	0660373SI	91
ABRB-R2X145/350x-W	0.79C	A++A+	0650333	0660333	102	AIDA-P-R3X145/350x-SM		A++A+	0650377	0660377	91
<b>ABRF-R ... SM</b>											
ABRF-R1X115/300x-SM	0.87C	A++A+	0650016	0660016	98	AIDA-P-R3X145/350x-SM-SI		A++A+	0650377SI	0660377SI	91
ABRF-R1X145/350x-SM	0.87C	A++A+	0650018	0660018	98	<b>AIDA-R2...</b>					
ABRF-R2X115/300x-SM	0.87C	A++A+	0650287	0660287	98	AIDA-R2X115/300x-SI	0.02H 0.98T	A++A+	0650354S	0660354S	89
ABRF-R2X145/350x-SM	0.87C	A++A+	0650047	0660047	98	AIDA-R2X145/350x-SI	0.02H 0.98T	A++A+	0650355S	0660355S	89
ABRF-R4X055/150x-SM	0.87C	A++A+	0650206	0660206	98	<b>AIDA-R3... P</b>					
<b>ABRF-R ... W</b>											
ABRF-R1X115/300x-W	0.81E	A++A+	0650052	0660052	100	AIDA-R3X115/300x-P	0.29E 0.66T	A++A+	0650367	0660367	90
ABRF-R1X145/350x-W	0.81E	A++A+	0650054	0660054	100	AIDA-R3X115/300x-P-SI	0.29E 0.66T	A++A+	0650367SI	0660367SI	90
ABRF-R2X115/300x-W	0.81E	A++A+	0650007	0660007	100	AIDA-R3X145/350x-P	0.29E 0.66T	A++A+	0650371	0660371	90
ABRF-R2X145/350x-W	0.81E	A++A+	0650009	0660009	100	AIDA-R3X145/350x-P-SI	0.29E 0.66T	A++A+	0650371SI	0660371SI	90
ABRF-R4X055/150x-W	0.81E	A++A+	0650005	0660005	100	<b>AIDA-R3... SM</b>					
<b>ABRFW-R ... SM</b>											
ABRFW-R1X115/300x-SM	0.87C	A++A+	0650007	0660007	100	AIDA-R3X115/300x-SM	0.31C 0.66T	A++A+	0650365	0660365	90
ABRFW-R1X145/350x-SM	0.87C	A++A+	0650004	0660004	100	AIDA-R3X115/300x-SM-SI	0.31C 0.66T	A++A+	0650365SI	0660365SI	90
ABRFW-R2X115/300x-SM	0.82C	A++A+	0650009	0660009	100	AIDA-R3X145/350x-SM	0.31C 0.66T	A++A+	0650369	0660369	90
ABRFW-R2X145/350x-SM	0.82C	A++A+	0650005	0660005	100	AIDA-R3X145/350x-SM-SI	0.31C 0.66T	A++A+	0650369SI	0660369SI	90
<b>ABRFW-R ... W</b>											
ABRFW-R1X115/300x-W	0.78E	A++A+	0650217	0660217	101	<b>AL-R 1... OS</b>					
ABRFW-R1X145/350x-W	0.78E	A++A+	0650098	0660098	101	AL-R1X115/300x-OS	0.29D	A++A+	0650410	0660410	96
<b>ABRFW-R ... W</b>											
ABRFW-R1X115/300x-W	0.78E	A++A+	0651026	0661026	99	AL-R1X145/350x-OS	0.29D	A++A+	0650414	0660414	96
ABRFW-R1X145/350x-W	0.78E	A++A+	0651027	0661027	99	AL-R1X145/450x-OS	0.29D	A++A+	0650574	0660574	96
<b>ABW-R</b>											
ABW-R1X085/250x		A++A+	0650347	0660347	106	<b>AL-R 1... SM</b>					
ABW-R1X115/300x		A++A+	0650348	0660348	106	AL-R1X115/300x-SM	0.82B	A++A+	0650408	0660408	96
ABW-R1X145/350x	0.78E	A++A+	0650349	0660349	106	AL-R1X145/350x-SM	0.82B	A++A+	0650412	0660412	96
<b>ADLQ 195/... SM</b>											
ADLQ 195/1100-830 SM	0.95A	A++-A <sup>2</sup>	0321931	0331931	270	AL-R1X145/450x-SM	0.82B	A++A+	0650572	0660572	96
ADLQ 195/1100-840 SM	0.95A	A++-A <sup>2</sup>	0321932	0331932	270	<b>AL-R 1... W</b>					
ADLQ 195/2000-830 SM	0.95A	A++-A <sup>2</sup>	0321933	0331933	270	AL-R1X115/300x-W	0.79C	A++A+	0650409	0660409	96
ADLQ 195/2000-840 SM	0.95A	A++-A <sup>2</sup>	0321934	0331934	270	AL-R1X145/350x-W	0.79C	A++A+	0650413	0660413	96
<b>ADLQ 195/... W</b>											
ADLQ 195/1100-830 W	0.99C	A++-A <sup>2</sup>	0321876	0331876	270	AL-R1X145/450x-W	0.79C	A++A+	0650573	0660573	96
ADLQ 195/1100-840 W	0.99C	A++-A <sup>2</sup>	0321880	0331880	270	<b>ALE-R ... SM</b>					
ADLQ 195/2000-830 W	0.99C	A++-A <sup>2</sup>	0321877	0331877	270	ALE-R1X115/300x-SM	0.87C	A++A+	0650214	0660214	92
ADLQ 195/2000-840 W	0.99C	A++-A <sup>2</sup>	0321881	0331881	270	ALE-R1X115/300x-SM-SI	0.87C	A++A+	0650214SI	0660214SI	92
<b>ADLO 235/... SM</b>											
ADLO 235/2000-830 SM	0.96A	A++-A <sup>2</sup>	0321935	0331935	271	ALE-R1X145/350x-SM	0.87C	A++A+	0650207	0660207	92
ADLO 235/2000-840 SM	0.96A	A++-A <sup>2</sup>	0321936	0331936	271	ALE-R1X145/350x-SM-SI	0.87C	A++A+	0650207SI	0660207SI	92
ADLO 235/3000-830 SM	0.96A	A++-A <sup>2</sup>	0321937	0331937	271	ALE-R2X115/300x-SM	0.87C	A++A+	0650234	0660234	92
ADLO 235/3000-840 SM	0.96A	A++-A <sup>2</sup>	0321938	0331938	271	ALE-R2X145/350x-SM	0.87C	A++A+	0650237	0660237	92
<b>ADLO 235/... W</b>											
ADLO 235/2000-830 W	0.99C	A++-A <sup>2</sup>	0321878	0331878	271	<b>ALEW-R</b>					
ADLO 235/2000-840 W	0.99C	A++-A <sup>2</sup>	0321882	0331882	271	ALEW-R1X115/300x	0.78E	A++A+	0650216	0660216	94
ADLO 235/3000-830 W	0.99C	A++-A <sup>2</sup>	0321879	0331879	271	ALEW-R1X115/300x-SI	0.78E	A++A+	0650216SI	0660216SI	94
ADLO 235/3000-840 W	0.99C	A++-A <sup>2</sup>	0321883	0331883	271	ALEW-R1X145/350x	0.78E				

Model	UTE	EEC*	el. conv. xx = ND Prod. code	dim. conv. DALI xx = DA Prod. code	Page	Model	UTE	EEC*	el. conv. xx = ND Prod. code	dim. conv. DALI xx = DA Prod. code	Page
DALI-AL2-LCU2071						EBRE-LED ... OS					
DALI-AL2-LCU2071			0209030		398	EBRE-LED 236/2500-830 OS	0.78D	A++-A <sup>2</sup>	0822855	0832855	218
DALI-AL2-PIR						EBRE-LED 236/2700-840 OS	0.78D	A++-A <sup>2</sup>	0822839	0832839	218
DALI-AL2-PIR			0209028		398	EBRE-LED 236/5000-830 OS	0.78D	A++-A <sup>2</sup>	0822851	0832851	218
DALI-AL2						EBRE-LED 236/5200-840 OS	0.78D	A++-A <sup>2</sup>	0822816	0832816	218
DALI-AL2			0209027		398	EBRE-LED 418/2500-830 OS	0.81D	A++-A <sup>2</sup>	0822859	0832859	218
DALI-ECO-ABS-KIT						EBRE-LED 418/2700-840 OS	0.81D	A++-A <sup>2</sup>	0822835	0832835	218
DALI-ECO-ABS-KIT			0208835		401	EBRE-LED 418/5000-830 OS	0.81D	A++-A <sup>2</sup>	0822833	0832833	218
DALI-ECO-EBC-KIT						EBRE-LED 418/5200-840 OS	0.81D	A++-A <sup>2</sup>	0822828	0832828	218
DALI-ECO-EBC-KIT			0208833		400	EBRE-LED ... OSD					
DALI-ECO-EBS-KIT						EBRE-LED 236/2700-840 OSD	0.78D	A++-A <sup>2</sup>	0822840	0832840	364
DALI-ECO-EBS-KIT			0208834		401	EBRE-LED 236/5200-840 OSD	0.78D	A++-A <sup>2</sup>	0822818	0832818	364
DALI-ECO-FB-PC-CONFIG						EBRE-LED 418/2700-840 OSD	0.81D	A++-A <sup>2</sup>	0822836	0832836	364
DALI-ECO-FB-PC-CONFIG			0208828		400	EBRE-LED 418/5200-840 OSD	0.81D	A++-A <sup>2</sup>	0822814	0832814	364
DALI-ECO-FB-USER						EBRE-LED ... OSR					
DALI-ECO-FB-USER			0208829		400	EBRE-LED 236/2700-840 OSR	0.78D	A++-A <sup>2</sup>	0822841	0832841	360
DALI-ECO-KOPPLER						EBRE-LED 236/5200-840 OSR	0.78D	A++-A <sup>2</sup>	0822817	0832817	360
DALI-ECO-KOPPLER			0204846		400	EBRE-LED 418/2700-840 OSR	0.81D	A++-A <sup>2</sup>	0822837	0832837	360
DALI-ECO-SEN-PEW						EBRE-LED 418/5200-840 OSR	0.81D	A++-A <sup>2</sup>	0822829	0832829	360
DALI-ECO-SEN-PEW			0208827		400	EBRE-LED ... TW-MPO					
DALI-ECO-SEN						EBRE-LED 228/830-865 TW-MPO	0.67C	A++-A <sup>2</sup>	0832966	0832966	221
DALI-ECO-SEN			0208826		400	EBRE-LED 414/830-865 TW-MPO	0.70C	A++-A <sup>2</sup>	0832968	0832968	221
DALI-ECO-Y						EBRE-LED ... TW-OS					
DALI-ECO-Y			0208831		400	EBRE-LED 236/830-865 TW-OS	0.78D	A++-A <sup>2</sup>	0832882	0832882	218
DALI-ECO-YS						EBRE-LED 418/830-865 TW-OS	0.81D	A++-A <sup>2</sup>	0832880	0832880	218
DALI-ECO-YS			0208832		400	EBRE-LED ... SM					
DALI-ECO						EBRE-LED-R1X115/30xx-SM	0.87C	A++-A <sup>1</sup>	0850019	0860019	226
DALI-ECO			0208825		400	EBRE-LED-R1X145/35xx-SM	0.87C	A++-A <sup>1</sup>	0850022	0860022	226
DALI-MCU						EBRE-LED-R2X115/30xx-SM	0.87C	A++-A <sup>1</sup>	0850004	0860004	226
DALI-MCU			0203376		396	EBRE-LED-R2X145/35xx-SM	0.87C	A++-A <sup>1</sup>	0850025	0860025	226
DALI-PCU						EBRE-LED-R3X065/10xx-SM	0.87C	A++-A <sup>1</sup>	0850029	0860029	226
DALI-PCU			0209023		396	EBRE-LED-R4X065/15xx-SM	0.87C	A++-A <sup>1</sup>	0850030	0860030	226
Digitdim						EBRE-LED ... W					
DIGDIM-KV 4XDAL1/1-10/DSI			0208444		402	EBRE-LED-R1X115/30xx-W	0.79C	A++-A <sup>1</sup>	0850020	0860020	226
DIGDIM-KV DAL1/1-10/DSI			0208387		402	EBRE-LED-R1X145/35xx-W	0.79C	A++-A <sup>1</sup>	0850023	0860023	226
DIGDIM 2TE-AE-W			0203824		402	EBRE-LED-R2X115/30xx-W	0.79C	A++-A <sup>1</sup>	0850016	0860016	226
DIGDIM 2TE-HD-W			0203825		402	EBRE-LED-R2X145/35xx-W	0.79C	A++-A <sup>1</sup>	0850026	0860026	226
DIGDIM 5TE-W			0203826		402	EBRE-LED-R3X065/10xx-W	0.79C	A++-A <sup>1</sup>	0850027	0860027	226
DIGDIM 7TE-W			0203827		402	EBRE-LED-R4X065/15xx-W	0.79C	A++-A <sup>1</sup>	0850031	0860031	226
DIGDIM 8TE-W			0203828		402	EBRE-LED-R1X115/30xx-SM (E-DUO)	0.87C	A++-A <sup>1</sup>	0850573	0860573	225
DIGDIM BLE-W			0203829		402	EBRE-LED-R4X065-2/15xx-SM	1.00B	A++-A <sup>1</sup>	0850575	0860575	225
DIGDIM DPE-W			0203821		402	EBRMIE-R4X055-2/15xx-SM	0.85C	A++-A <sup>1</sup>	0850577	0860577	225
DIGDIM DSR-E-W			0203823		402	EBRMIE-R4X055-2/20xx-SM	1.00B	A++-A <sup>1</sup>	0850579	0860579	225
DIGDIM IRE-W			0203830		402	EBRE-LED-R1X115/30xx-OSD	0.61D	A+	0850227	0860227	362
DIGDIM PRA-W			0203831		402	EBRE-LED-R2X115-1/25xx-OSD	0.77D	A++-A <sup>1</sup>	0850228	0860228	362
DIGDIM SRE-W			0203822		402	EBRE-LED-R2X145/35xx-OSD	0.77D	A++-A <sup>1</sup>	0850229	0860229	362
DIGDIM FB 1			0203832		402	EBRE-LED-R2X145-1/35xx-OSD	0.77D	A++-A <sup>1</sup>	0850103	0860103	362
DIGDIM FB 3			0203833		402	EBRE-LED-R4X065/15xx-OSD	0.77D	A++-A <sup>1</sup>	0850049	0860049	362
DIGDIM IR-FB			0203835		402	EBRE-LED-R4X065-3/10xx-OSD	0.77D	A++-A <sup>1</sup>	0850233	0860233	362
DIGDIM INPM			0203839		403	EBRE-LED-R4X115/30xx-OSD	0.77D	A++-A <sup>1</sup>	0850234	0860234	362
DIGDIM INPM-H			0204988		403	EBRE-LED-R4X115-3/30xx-OSD	0.77D	A++-A <sup>1</sup>	0850235	0860235	362
DIGDIM MINPM			0203840		403	EBRE-LED ... OSR					
DIGDIM-SEN315			0208445		402	EBRE-LED-R1X120/25xx-OSR	0.61D	A+	0850281	0860281	358
DIGDIM MSEN			0203834		402	EBRE-LED-R1X150/40xx-OSR	0.61D	A+	0850283	0860283	358
DIGDIM RLM 4K			0203838		403	EBRE-LED-R2X120/25xx-OSR	0.77D	A+	0850285	0860285	358
DIGDIM-RG10			0208443		403	EBRE-LED-R2X150/40xx-OSR	0.77D	A+	0850287	0860287	358
DIGDIM STRV5			0203841		403	EBRE-LED-R4X065/15xx-OSR	0.77D	A++-A <sup>1</sup>	0850289	0860289	358
DIGDIM TBSP			0203842		403	EBRE-LED-R4X065-3/10xx-OSR	0.77D	A++-A <sup>1</sup>	0850288	0860288	358
DIGDIM TP			0203843		403	EBRE-LED ... PSD					
DIGDIM UDIM			0203836		402	EBRE-LED-R2X115/30xx-PSD	0.76D	A++-A <sup>1</sup>	0850240	0860240	362
EBD-LED 120/... MS						EBRE-LED-R2X115-1/25xx-PSD	0.76D	A++-A <sup>1</sup>	0850238	0860238	362
EBD-LED 120/310-840-MS	0.82C	A++-A <sup>2</sup>	0320259		277	EBRE-LED-R2X145/35xx-PSD	0.77D	A++-A <sup>1</sup>	0850007	0860007	362
EBD-LED 120/... OS						EBRE-LED-R2X145-1/35xx-PSD	0.77D	A++-A <sup>1</sup>	0850241	0860241	362
EBD-LED 120/310-840-OS	0.74D	A++-A <sup>2</sup>	0320254		277	EBRE-LED-R4X065/15xx-PSD	0.84D	A++-A <sup>1</sup>	0850244	0860244	362
EBDK-R-LED 150/... F						EBRE-LED-R4X065-3/10xx-PSD	0.84D	A++-A <sup>1</sup>	0850243	0860243	362
EBDK-R-LED 150/1500-830 F	0.93A	A++-A <sup>2</sup>	0321900	0331900	298	EBRE-LED-R4X115/30xx-PSD	0.84D	A++-A <sup>1</sup>	0850246	0860246	362
EBDK-R-LED 150/1500-840 F	0.93A	A++-A <sup>2</sup>	0321898	0331898	298	EBRE-LED-R4X115-3/30xx-PSD	0.84D	A++-A <sup>1</sup>	0850245	0860245	362
EBDK-R-LED 150/... S						EBRE-LED ... PSR					
EBDK-R-LED 150/1500-830 S	0.94A	A++-A <sup>2</sup>	0321899	0331899	298	EBRE-LED-R1X120/25xx-PSR	0.61D	A+	0850291	0860291	358
EBDK-R-LED 150/1500-840 S	0.94A	A++-A <sup>2</sup>	0321897	0331897	298	EBRE-LED-R1X150/40xx-PSR	0.61D	A+	0850293	0860293	358
EBDK-R-LED 195/... F						EBRE-LED-R2X120/25xx-PSR	0.77D	A+	0850295	0860295	358
EBDK-R-LED 195/3000-830 F	0.76A	A++-A <sup>2</sup>	0321906	0331906	299	EBRE-LED-R2X150/40xx-PSR	0.77D	A+	0850297	0860297	358
EBDK-R-LED 195/3000-840 F	0.76A	A++-A <sup>2</sup>	0321903	0331903	299	EBRE-LED-R4X065/15xx-PSR	0.77D	A++-A <sup>1</sup>	0850299	0860299	358
EBDK-R-LED 195/... S						EBRE-LED-R4X065-3/10xx-PSR	0.77D	A++-A <sup>1</sup>	0850298	0860298	358
EBDK-R-LED 195/3000-830 S	0.72A	A++-A <sup>2</sup>	0321904	0331904	299	EBRE-LED ... OS, IP 40					
EBDK-R-LED 195/3000-840 S	0.72A	A++-A <sup>2</sup>	0321901	0331901	299	EBRE-LED-R1X120/25xx-OS	0.61D	A+	0850006	0860006	228
EBR-LED ... T						EBRE-LED-R1X150/40xx-OS	0.61D	A+	0850036	0860036	228
EBR-L 180/935-840 T	0.83C	A++-A <sup>3</sup>	0850610	0860610	252	EBRE-LED-R2X120/25xx-OS	0.77D	A+	0850008	0860008	228
EBR-L 280/1870-840 T	0.83C	A++-A <sup>3</sup>	0850611	0860611	252	EBRE-LED-R2X150/40xx-OS	0.77D	A+	0850012	0860012	228
EBR-L 380/2520-840 T	0.83C	A++-A <sup>3</sup>	0850612	0860612	252	EBRE-LED-R4X065/15xx-OS	0.77D	A++-A <sup>1</sup>	0850053	0860053	228
EBR-L 480/3360-840 T	0.83C	A++-A <sup>3</sup>	0850613	0860613	252	EBRE-LED ... PS, IP 40					
EBRE-LED ... MPQ						EBRE-LED-R1X120/25xx-PS	0.66C	A+	0850033	0860033	229
EBRE-LED 228/2500-830 MPQ	0.67C	A++-A <sup>2</sup>	0822899	0832899	220	EBRE-LED-R1X150/40xx-PS	0.66C	A+	0850040	0860040	229
EBRE-LED 228/2700-840 MPQ	0.67C	A++-A <sup>2</sup>	0822900	0832900	220	EBRE-LED-R2X120/25xx-PS	0.71C	A+	0850042	0860042	229
EBRE-LED 228/5000-830 MPQ	0.67C	A++-A <sup>2</sup>	0822901	0832901	220	EBRE-LED-R2X150/40xx-PS	0.71C	A+	0850045	0860045	229
EBRE-LED 228/5200-840 MPQ	0.67C	A++-A <sup>2</sup>	0822902	0832902	220	EBRE-LED-R4X065/15xx-PS	0.67C	A++-A <sup>1</sup>	0850051	0860051	229
EBRE-LED 414/2500-830 MPQ	0.70C	A++-A <sup>2</sup>	0822903	0832903	220	EBRE-LED ... SM, IP 20					
EBRE-LED 414/2700-840 MPQ	0.70C	A++-A <sup>2</sup>	0822904	0832904	220	EBRE-LED-R1X120/25xx-SM	0.75C	A+	0850034	0860034	228
EBRE-LED 414/5000-830 MPQ	0.70C	A++-A <sup>2</sup>	0822905	0832905	220	EBRE-LED-R1X150/40xx-SM	0.75C	A			

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EBRME-LED 228/2500-830 MPS	0.70C	A++-A <sup>2</sup>	0622891	0632891	222	EBWE-R1X055/150x	0.77E	A++-A <sup>1</sup>	0650390	0660390	234
EBRME-LED 228/2700-840 MPS	0.70C	A++-A <sup>2</sup>	0622892	0632892	222	EBWE-R1X115/300x	0.78E	A++-A <sup>1</sup>	0650391	0660391	234
EBRME-LED 228/5000-830 MPS	0.70C	A++-A <sup>2</sup>	0622893	0632893	222	EBWE-R1X145/350x	0.78E	A++-A <sup>1</sup>	0650392	0660392	234
EBRME-LED 228/5200-840 MPS	0.70C	A++-A <sup>2</sup>	0622894	0632894	222	EBWME-R1X115/300x	0.75E	A++-A <sup>1</sup>	0650324	0660324	234
EBRME-LED 414/2500-830 MPS	0.73C	A++-A <sup>2</sup>	0622895	0632895	222	EBWME-R1X145/350x	0.78E	A++-A <sup>1</sup>	0650327	0660327	234
EBRME-LED 414/2700-840 MPS	0.73C	A++-A <sup>2</sup>	0622896	0632896	222	<b>EDLQ 150/... SM</b>					
EBRME-LED 414/5000-830 MPS	0.73C	A++-A <sup>2</sup>	0622897	0632897	222	EDLO 150/1100-830 SM	0.97A	A++-A <sup>2</sup>	0321370	0331370	292
EBRME-LED 414/5200-840 MPS	0.73C	A++-A <sup>2</sup>	0622898	0632898	222	EDLO 150/1100-830 SM-EDS3	0.97A	A++-A <sup>2</sup>	0321370/377	0331370/377	292
<b>EBRME-LED ... MPSD</b>						EDLO 150/1100-840 SM	0.97A	A++-A <sup>2</sup>	0321369	0331369	292
EBRME-LED 414/5200-840 MPSD	0.71C	A++-A <sup>2</sup>	0622923	0632923	365	EDLO 150/1100-840 SM-EDS3	0.97A	A++-A <sup>2</sup>	0321369/377	0331369/377	292
<b>EBRME-LED ... MPSR</b>						EDLO 150/2000-830 SM	0.97A	A++-A <sup>2</sup>	0321372	0331372	292
EBRME-LED 414/5200-840 MPSR	0.73C	A++-A <sup>2</sup>	0622922	0632922	361	EDLO 150/2000-830 SM-EDS3	0.97A	A++-A <sup>2</sup>	0321372/377	0331372/377	292
<b>EBRME-LED ... OS</b>						EDLO 150/2000-840 SM	0.97A	A++-A <sup>2</sup>	0321371	0331371	292
EBRME-LED 236/2500-830 OS	0.75D	A++-A <sup>2</sup>	0622864	0632864	219	EDLO 150/2000-840 SM-EDS3	0.97A	A++-A <sup>2</sup>	0321371/377	0331371/377	292
EBRME-LED 236/2700-840 OS	0.75D	A++-A <sup>2</sup>	0622864	0632864	219	<b>EDLQ 195/... SM</b>					
EBRME-LED 236/5000-830 OS	0.75D	A++-A <sup>2</sup>	0622868	0632868	219	EDLO 195/1100-830 SM	0.95A	A++-A <sup>2</sup>	0321374	0331374	295
EBRME-LED 236/5200-840 OS	0.75D	A++-A <sup>2</sup>	0622820	0632820	219	EDLO 195/1100-830 SM-EDS3	0.95A	A++-A <sup>2</sup>	0321374/377	0331374/377	295
EBRME-LED 418/2500-830 OS	0.78D	A++-A <sup>2</sup>	0622872	0632872	219	EDLO 195/1100-840 SM	0.95A	A++-A <sup>2</sup>	0321373	0331373	295
EBRME-LED 418/2700-840 OS	0.78D	A++-A <sup>2</sup>	0622847	0632847	219	EDLO 195/1100-840 SM-EDS3	0.95A	A++-A <sup>2</sup>	0321373/377	0331373/377	295
EBRME-LED 418/5000-830 OS	0.78D	A++-A <sup>2</sup>	0622876	0632876	219	EDLO 195/2000-830 SM	0.95A	A++-A <sup>2</sup>	0321376	0331376	295
EBRME-LED 418/5200-840 OS	0.78D	A++-A <sup>2</sup>	0622831	0632831	219	EDLO 195/2000-830 SM-EDS3	0.95A	A++-A <sup>2</sup>	0321376/377	0331376/377	295
<b>EBRME-LED ... OSD</b>						EDLO 195/2000-840 SM	0.95A	A++-A <sup>2</sup>	0321375	0331375	295
EBRME-LED 236/2700-840 OSD	0.75D	A++-A <sup>2</sup>	0622844	0632844	365	EDLO 195/2000-840 SM-EDS3	0.95A	A++-A <sup>2</sup>	0321375/377	0331375/377	295
EBRME-LED 236/5200-840 OSD	0.75D	A++-A <sup>2</sup>	0622822	0632822	365	EDLO 195/3000-830 SM	0.95A	A++-A <sup>2</sup>	0321378	0331378	295
EBRME-LED 418/2700-840 OSD	0.78D	A++-A <sup>2</sup>	0622848	0632848	365	EDLO 195/3000-830 SM-EDS3	0.95A	A++-A <sup>2</sup>	0321378/377	0331378/377	295
EBRME-LED 418/5200-840 OSD	0.78D	A++-A <sup>2</sup>	0622815	0632815	365	EDLO 195/3000-840 SM	0.95A	A++-A <sup>2</sup>	0321377	0331377	295
<b>EBRME-LED ... OSR</b>						EDLO 195/3000-840 SM-EDS3	0.95A	A++-A <sup>2</sup>	0321377/377	0331377/377	295
EBRME-LED 236/2700-840 OSR	0.75D	A++-A <sup>2</sup>	0622845	0632845	361	<b>EDLQ 195/... W</b>					
EBRME-LED 236/5200-840 OSR	0.75D	A++-A <sup>2</sup>	0622821	0632821	361	EDLO 195/1100-830 W	0.96C	A++-A <sup>2</sup>	0321338	0331338	292
EBRME-LED 418/2700-840 OSR	0.78D	A++-A <sup>2</sup>	0622849	0632849	361	EDLO 150/1100-830 W-EDS3	0.96C	A++-A <sup>2</sup>	0321338/377	0331338/377	292
EBRME-LED 418/5200-840 OSR	0.78D	A++-A <sup>2</sup>	0622830	0632830	361	EDLO 150/1100-840 W	0.96C	A++-A <sup>2</sup>	0321337	0331337	292
<b>EBRME-LED ... TW-MPO</b>						EDLO 150/1100-840 W-EDS3	0.96C	A++-A <sup>2</sup>	0321337/377	0331337/377	292
EBRME-LED 228/830-865 TW-MPO	0.65C	A++-A <sup>2</sup>	0622967	0632967	223	EDLO 150/2000-830 W	0.96C	A++-A <sup>2</sup>	0321340	0331340	292
EBRME-LED 414/830-865 TW-MPO	0.68C	A++-A <sup>2</sup>	0637696	0637696	223	EDLO 150/2000-830 W-EDS3	0.96C	A++-A <sup>2</sup>	0321340/377	0331340/377	292
<b>EBRME-LED ... TW-OS</b>						EDLO 150/2000-840 W	0.96C	A++-A <sup>2</sup>	0321339	0331339	292
EBRME-LED 236/830-865 TW-OS	0.75D	A++-A <sup>2</sup>	0632883	0632883	219	EDLO 150/2000-840 W-EDS3	0.96C	A++-A <sup>2</sup>	0321339/377	0331339/377	292
EBRME-LED 418/830-865 TW-OS	0.78D	A++-A <sup>2</sup>	0632881	0632881	219	<b>EDLQ 195/... W</b>					
<b>EBRME-R ... SM</b>						EDLO 195/1100-830 W	0.99C	A++-A <sup>2</sup>	0321342	0331342	294
EBRME-R1X115/300x-SM	0.85C	A++-A <sup>1</sup>	0650057	0660057	230	EDLO 195/1100-830 W-EDS3	0.99C	A++-A <sup>2</sup>	0321342/377	0331342/377	294
EBRME-R1X145/350x-SM	0.85C	A++-A <sup>1</sup>	0650060	0660060	230	EDLO 195/1100-840 W	0.99C	A++-A <sup>2</sup>	0321341	0331341	294
EBRME-R2X115/300x-SM	0.85C	A++-A <sup>1</sup>	0650054	0660054	230	EDLO 195/1100-840 W-EDS3	0.99C	A++-A <sup>2</sup>	0321341/377	0331341/377	294
EBRME-R2X145/350x-SM	0.85C	A++-A <sup>1</sup>	0650065	0660065	230	EDLO 195/2000-830 W	0.99C	A++-A <sup>2</sup>	0321344	0331344	294
EBRME-R3X055/100x-SM	0.85C	A++-A <sup>1</sup>	0650055	0660055	230	EDLO 195/2000-830 W-EDS3	0.99C	A++-A <sup>2</sup>	0321344/377	0331344/377	294
EBRME-R4X055/150x-SM	0.85C	A++-A <sup>1</sup>	0650070	0660070	230	EDLO 195/2000-840 W	0.99C	A++-A <sup>2</sup>	0321343	0331343	294
<b>EBRME-R ... W</b>						EDLO 195/2000-840 W-EDS3	0.99C	A++-A <sup>2</sup>	0321343/377	0331343/377	294
EBRME-R1X115/300x-W	0.78C	A++-A <sup>1</sup>	0650058	0660058	230	EDLO 195/3000-830 W	0.99C	A++-A <sup>2</sup>	0321346	0331346	294
EBRME-R1X145/350x-W	0.78C	A++-A <sup>1</sup>	0650061	0660061	230	EDLO 195/3000-830 W-EDS3	0.99C	A++-A <sup>2</sup>	0321346/377	0331346/377	294
EBRME-R2X115/300x-W	0.78C	A++-A <sup>1</sup>	0650063	0660063	230	EDLO 195/3000-840 W	0.99C	A++-A <sup>2</sup>	0321345	0331345	294
EBRME-R2X145/350x-W	0.78C	A++-A <sup>1</sup>	0650066	0660066	230	EDLO 195/3000-840 W-EDS3	0.99C	A++-A <sup>2</sup>	0321345/377	0331345/377	294
EBRME-R3X055/100x-W	0.78C	A++-A <sup>1</sup>	0650068	0660068	230	<b>EDLQ 235/... SM</b>					
EBRME-R4X055/150x-W	0.78C	A++-A <sup>1</sup>	0650071	0660071	230	EDLO 235/2000-830 SM	0.96A	A++-A <sup>2</sup>	0321380	0331380	297
<b>EBRME-R ... OS, IP 40</b>						EDLO 235/2000-830 SM-EDS3	0.96A	A++-A <sup>2</sup>	0321380/377	0331380/377	297
EBRME-R1X115/300x-OS	0.59D	A++-A <sup>1</sup>	0650210	0660210	232	EDLO 235/2000-840 SM	0.96A	A++-A <sup>2</sup>	0321379	0331379	297
EBRME-R1X145/350x-OS	0.59D	A++-A <sup>1</sup>	0650212	0660212	232	EDLO 235/2000-840 SM-EDS3	0.96A	A++-A <sup>2</sup>	0321379/377	0331379/377	297
EBRME-R2X115/300x-OS	0.77D	A++-A <sup>1</sup>	0650215	0660215	232	EDLO 235/3000-830 SM	0.96A	A++-A <sup>2</sup>	0321382	0331382	297
EBRME-R2X145/350x-OS	0.77D	A++-A <sup>1</sup>	0650217	0660217	232	EDLO 235/3000-830 SM-EDS3	0.96A	A++-A <sup>2</sup>	0321382/377	0331382/377	297
EBRME-R4X055/150x-OS	0.77D	A++-A <sup>1</sup>	0650094	0660094	232	EDLO 235/3000-840 SM	0.96A	A++-A <sup>2</sup>	0321381	0331381	297
<b>EBRME-R ... OSD</b>						EDLO 235/3000-840 SM-EDS3	0.96A	A++-A <sup>2</sup>	0321381/377	0331381/377	297
EBRME-R2X115/300x-OSD	0.77D	A++-A <sup>1</sup>	0650320	0660320	363	EDLO 235/4000-830 SM	0.96A	A++-A <sup>2</sup>	0321384	0331384	297
EBRME-R2X115-1/300x-OSD	0.77D	A++-A <sup>1</sup>	0650326	0660326	363	EDLO 235/4000-830 SM-EDS3	0.96A	A++-A <sup>2</sup>	0321384/377	0331384/377	297
EBRME-R2X145/350x-OSD	0.77D	A++-A <sup>1</sup>	0650322	0660322	363	EDLO 235/4000-840 SM	0.96A	A++-A <sup>2</sup>	0321383	0331383	297
EBRME-R2X145-1/350x-OSD	0.77D	A++-A <sup>1</sup>	0650328	0660328	363	EDLO 235/4000-840 SM-EDS3	0.96A	A++-A <sup>2</sup>	0321383/377	0331383/377	297
EBRME-R4X055/150x-OSD	0.77D	A++-A <sup>1</sup>	0650331	0660331	363	EDLO 235/5000-830 SM	0.95A	A++-A <sup>2</sup>	0321466	0331466	297
EBRME-R4X055-3/100x-OSD	0.77D	A++-A <sup>1</sup>	0650325	0660325	363	EDLO 235/5000-830 SM-EDS3	0.95A	A++-A <sup>2</sup>	0321466/377	0331466/377	297
EBRME-R4X115/300x-OSD	0.77D	A++-A <sup>1</sup>	0650332	0660332	363	EDLO 235/5000-840 SM	0.95A	A++-A <sup>2</sup>	0321465	0331465	297
EBRME-R4X115-3/300x-OSD	0.77D	A++-A <sup>1</sup>	0650333	0660333	363	EDLO 235/5000-840 SM-EDS3	0.95A	A++-A <sup>2</sup>	0321465/377	0331465/377	297
<b>EBRME-R ... PS, IP 40</b>						<b>EDLQ 235/... W</b>					
EBRME-R1X115/300x-PS	0.65C	A++-A <sup>1</sup>	0650211	0660211	233	EDLO 235/2000-830 W	0.99C	A++-A <sup>2</sup>	0321348	0331348	296
EBRME-R1X145/350x-PS	0.65C	A++-A <sup>1</sup>	0650213	0660213	233	EDLO 235/2000-830 W-EDS3	0.99C	A++-A <sup>2</sup>	0321348/377	0331348/377	296
EBRME-R2X115/300x-PS	0.65C	A++-A <sup>1</sup>	0650216	0660216	233	EDLO 235/2000-840 W	0.99C	A++-A <sup>2</sup>	0321347	0331347	296
EBRME-R2X145/350x-PS	0.65C	A++-A <sup>1</sup>	0650218	0660218	233	EDLO 235/2000-840 W-EDS3	0.99C	A++-A <sup>2</sup>	0321347/377	0331347/377	296
EBRME-R4X055/150x-PS	0.66C	A++-A <sup>1</sup>	0650096	0660096	233	EDLO 235/3000-830 W	0.99C	A++-A <sup>2</sup>	0321350	0331350	296
<b>EBRME-R ... PSD</b>						EDLO 235/3000-830 W-EDS3	0.99C	A++-A <sup>2</sup>	0321350/377	0331350/377	296
EBRME-R2X115/300x-PSD	0.77D	A++-A <sup>1</sup>	0650250	0660250	363	EDLO 235/3000-840 W	0.99C	A++-A <sup>2</sup>	0321349	0331349	296
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EDLR 195/1100-830 SMB-EDS3	0.90A	A++-A ²	0321357/377	0331357/377	261	EDLR 75/425-840	1.00D	A++-A ²	0321235		274
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EDLR 195/1100-840 SMB-EDS3	0.90A	A++-A ²	0321358/377	0331358/377	261	EDLR 75-2/425-840	1.00D	A++-A ²	0321236		274
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EDLR 195/3000-830 SMB-EDS3	0.91A	A++-A ²	0321361/377	0331361/377	261	EDLR-ECO 195/1100-830 W	0.99C	A++-A ²	0321939		283
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EDLR 195/1100-830 SMT-EDS3	0.90A	A++-A ²	0321316/377	0331316/377	261	EDLR-ECO 235/1100-840 W	0.99C	A++-A ²	0321944		287
EDLR 195/1100-840 SMT	0.90A	A++-A ²	0321315	0331315	261	EDLR-ECO 235/2000-830 W	0.99C	A++-A ²	0321945		287
EDLR 195/1100-840 SMT-EDS3	0.90A	A++-A ²	0321315/377	0331315/377	261	EDLR-ECO 235/2000-840 W	0.99C	A++-A ²	0321946		287
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EDLR 195/2000-830 SMT-EDS3	0.90A	A++-A ²	0321320/377	0331320/377	261	EHLS-L 154/410-840 OS	0.61D	A++-A ²	0850464	0860464	356
EDLR 195/2000-840 SMT	0.90A	A++-A ²	0321319	0331319	261	EHLS-L 180/935-840 OS	0.61D	A++-A ²	0850630	0860630	356
EDLR 195/2000-840 SMT-EDS3	0.90A	A++-A ²	0321319/377	0331319/377	261	EHLS-L 254/820-840 OS	0.61D	A++-A ²	0850466	0860466	356
EDLR 195/3000-830 SMT	0.90A	A++-A ²	0321324	0331324	261	EHLS-L 280/1870-840 OS	0.77D	A++-A ²	0850631	0860631	356
EDLR 195/3000-830 SMT-EDS3	0.90A	A++-A ²	0321324/377	0331324/377	261	EHLS-L 324/600-840 OS		A++-A ²	0850468	0860468	356
EDLR 195/3000-840 SMT	0.90A	A++-A ²	0321323	0331323	261	EHLS-L 354/1230-840 OS	0.61D	A++-A ²	0850469	0860469	356
EDLR 195/3000-840 SMT-EDS3	0.90A	A++-A ²	0321323/377	0331323/377	261	EHLS-L 380/2520-840 OS	0.77D	A++-A ²	0850632	0860632	356
EDLR 195/... W						EHLS-L 424/800-840 OS		A++-A ²	0850471	0860471	356
EDLR 195/1100-830 W	0.99C	A++-A ²	0321314	0331314	280	EHLS-L 454/1640-840 OS	0.61D	A++-A ²	0850472	0860472	356
EDLR 195/1100-830 W-EDS3	0.99C	A++-A ²	0321314/377	0331314/377	280	EHLS-L 480/3360-840 OS	0.77D	A++-A ²	0850633	0860633	356
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EDLR 195/1100-840 W-EDS3	0.99C	A++-A ²	0321313/377	0331313/377	280	EIHLS-L 154/410-840 SB	0.81D	A++-A ²	0850454	0860454	356
EDLR 195/2000-830 W	0.98C	A++-A ²	0321318	0331318	280	EIHLS-L 180/935-840 SB	0.81D	A++-A ²	0850634	0860634	356
EDLR 195/2000-830 W-EDS3	0.98C	A++-A ²	0321318/377	0331318/377	280	EIHLS-L 254/820-840 SB	0.81D	A++-A ²	0850456	0860456	356
EDLR 195/2000-840 W	0.98C	A++-A ²	0321317	0331317	280	EIHLS-L 280/1870-840 SB	0.81D	A++-A ²	0850635	0860635	356
EDLR 195/2000-840 W-EDS3	0.98C	A++-A ²	0321317/377	0331317/377	280	EIHLS-L 324/600-840 SB		A++-A ²	0850458	0860458	356
EDLR 195/3000-830 W	0.98C	A++-A ²	0321322	0331322	280	EIHLS-L 354/1230-840 SB	0.81D	A++-A ²	0850459	0860459	356
EDLR 195/3000-830 W-EDS3	0.98C	A++-A ²	0321322/377	0331322/377	280	EIHLS-L 380/2520-840 SB	0.81D	A++-A ²	0850636	0860636	356
EDLR 195/3000-840 W	0.98C	A++-A ²	0321321	0331321	280	EIHLS-L 424/800-840 SB		A++-A ²	0850461	0860461	356
EDLR 195/3000-840 W-EDS3	0.98C	A++-A ²	0321321/377	0331321/377	280	EIHLS-L 454/1640-840 SB	0.81D	A++-A ²	0850462	0860462	356
EDLR 235/... SMB						EIHLS-L 480/3360-840 SB	0.81D	A++-A ²	0850637	0860637	356
EDLR 235/2000-830 SMB	0.90A	A++-A ²	0321363	0331363	265	EIHLS-L ... SM					
EDLR 235/2000-830 SMB-EDS3	0.90A	A++-A ²	0321363/377	0331363/377	265	EIHLS-L 154/410-840 SM	0.86C	A++-A ²	0850582	0860582	355
EDLR 235/2000-840 SMB	0.90A	A++-A ²	0321364	0331364	265	EIHLS-L 180/935-840 SM	0.86C	A++-A ²	0850642	0860642	355
EDLR 235/2000-840 SMB-EDS3	0.90A	A++-A ²	0321364/377	0331364/377	265	EIHLS-L 254/820-840 SM	0.86C	A++-A ²	0850584	0860584	355
EDLR 235/3000-830 SMB	0.89A	A++-A ²	0321365	0331365	265	EIHLS-L 280/1870-840 SM	0.86C	A++-A ²	0850643	0860643	355
EDLR 235/3000-830 SMB-EDS3	0.89A	A++-A ²	0321365/377	0331365/377	265	EIHLS-L 324/600-840 SM	0.86C	A++-A ²	0850586	0860586	355
EDLR 235/3000-840 SMB	0.89A	A++-A ²	0321366	0331366	265	EIHLS-L 354/1230-840 SM	0.86C	A++-A ²	0850587	0860587	355
EDLR 235/3000-840 SMB-EDS3	0.89A	A++-A ²	0321366/377	0331366/377	265	EIHLS-L 380/2520-840 SM	0.86C	A++-A ²	0850644	0860644	355
EDLR 235/4000-830 SMB	0.87A	A++-A ²	0321367	0331367	265	EIHLS-L 424/800-840 SM		A++-A ²	0850589	0860589	355
EDLR 235/4000-830 SMB-EDS3	0.87A	A++-A ²	0321367/377	0331367/377	265	EIHLS-L 454/1640-840 SM	0.86C	A++-A ²	0850590	0860590	355
EDLR 235/4000-840 SMB	0.87A	A++-A ²	0321368	0331368	265	EIHLS-L 480/3360-840 SM	0.86C	A++-A ²	0850645	0860645	355
EDLR 235/4000-840 SMB-EDS3	0.87A	A++-A ²	0321368/377	0331368/377	265	EIHLS-L ... W					
EDLR 235/5000-830 SMB	0.84A	A++-A ²	0321459	0331459	265	EIHLS-L 154/410-840 W	0.77C	A++-A ²	0850474	0860474	356
EDLR 235/5000-840 SMB	0.84A	A++-A ²	0321462	0331462	265	EIHLS-L 180/935-840 W	0.77C	A++-A ²	0850638	0860638	356
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EDLR 235/2000-830 SMT	0.87A	A++-A ²	0321328	0331328	265	EIHLS-L 280/1870-840 W	0.68C	A++-A ²	0850639	0860639	356
EDLR 235/2000-830 SMT-EDS3	0.87A	A++-A ²	0321328/377	0331328/377	265	EIHLS-L 324/600-840 W		A++-A ²	0850478	0860478	356
EDLR 235/2000-840 SMT	0.87A	A++-A ²	0321327	0331327	265	EIHLS-L 354/1230-840 W	0.77C	A++-A ²	0850479	0860479	356
EDLR 235/2000-840 SMT-EDS3	0.87A	A++-A ²	0321327/377	0331327/377	265	EIHLS-L 380/2520-840 W	0.77C	A++-A ²	0850640	0860640	356
EDLR 235/3000-830 SMT	0.89A	A++-A ²	0321332	0331332	265	EIHLS-L 424/800-840 W		A++-A ²	0850481	0860481	356
EDLR 235/3000-830 SMT-EDS3	0.89A	A++-A ²	0321332/377	0331332/377	265	EIHLS-L 454/1640-840 W	0.77C	A++-A ²	0850482	0860482	356
EDLR 235/3000-840 SMT	0.89A	A++-A ²	0321331	0331331	265	EIHLS-L 480/3360-840 W	0.77C	A++-A ²	0850641	0860641	356
EDLR 235/3000-840 SMT-EDS3	0.89A	A++-A ²	0321331/377	0331331/377	265	EI-LED ... H					
EDLR 235/4000-830 SMT	0.84A	A++-A ²	0321336	0331336	265	EI-LED 330/2500-830 H	0.87E 0.13T	A++-A ²	0420679	0430679	335
EDLR 235/4000-830 SMT-EDS3	0.84A	A++-A ²	0321336/377	0331336/377	265	EI-LED 330/2500-830 H-2K	0.87E 0.13T	A++-A ²	0420683	0430683	335
EDLR 235/4000-840 SMT	0.84A	A++-A ²	0321335	0331335	265	EI-LED 330/2500-840 H	0.87E 0.13T	A++-A ²	0420680	0430680	335
EDLR 235/4000-840 SMT-EDS3	0.84A	A++-A ²	0321335/377	0331335/377	265	EI-LED 330/2500-840 H-2K	0.87E 0.13T	A++-A ²	0420684	0430684	335
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EDLR 235/5000-840 SMT	0.84A	A++-A ²	0321463	0331463	265	EI-LED 330/2500-830 Z	0.85E 0.15T	A++-A ²	0420681	0430681	335
EDLR 235/5000-840 SMT-EDS3	0.84A	A++-A ²	0321463/377	0331463/377	265	EI-LED 330/2500-830 Z-2K	0.85E 0.15T	A++-A ²	0420685	0430685	335
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EDLR 235/2000-830 W-EDS3	0.99C	A++-A ²	0321326/377	0331326/377	264	EI-PC-LED 200/800-840	0.63E 0.06T	A++-A ²	0420645		378
EDLR 235/2000-840 W	0.99C	A++-A ²	0321325	0331325	264	EI-PC-LED 300/1300-840	0.63E 0.06T	A++-A ²	0420646		378
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F-LINE-LF 128/289A840 SI	0.70E	A++-A+	0627427SI	0637427SI	88	H-LINE-MBE-100xNE-6600PS840	0.41C 0.41T	A++-A+	0624326AF	0634326AF	74
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F-LINE-LF 135/368A840 SI	0.70E	A++-A+	0627429SI	0637429SI	88	H-LINE-MBE-150xNE-9400PS830	0.41C 0.41T	A++-A+	0624330AF	0634330AF	74
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F-LINE-R1X115/30cc-SM-SI	0.65B	A++-A+	0650210SI	0660210SI	76	HERO 3000-865 M	1.00A	A++-A+	0657476	0667476	244
F-LINE-R1X145/35cc-SM	0.65B	A++-A+	0650211	0660211	76	<b>HERO ... S</b>					
F-LINE-R1X145/35cc-SM-SI	0.65B	A++-A+	0650211SI	0660211SI	76	HERO 1260-840 S-HT	1.00A	A++-A+	0657477	0667477	244
F-LINE-R2X115/30cc-SM	0.65B	A++-A+	0650248	0660248	76	HERO 1260-865 S-HT	1.00A	A++-A+	0657478	0667478	244
F-LINE-R2X115/30cc-SM-SI	0.65B	A++-A+	0650248SI	0660248SI	76	HERO 1500-840 S	1.00A	A++-A+	0657465	0667465	244
F-LINE-R2X145/35cc-SM	0.65B	A++-A+	0650250	0660250	76	HERO 1500-865 S	1.00A	A++-A+	0657466	0667466	244
F-LINE-R2X145/35cc-SM-SI	0.65B	A++-A+	0650250SI	0660250SI	76	HERO 2500-840 S-HT	1.00A	A++-A+	0657471	0667471	244
<b>F-LINE-RT ... SM</b>											
F-LINE-RT1X115/20cc-SM	0.58C 0.30T	A++-A+	0650580	0660580	86	HERO 2500-865 S-HT	1.00A	A++-A+	0657472	0667472	244
F-LINE-RT1X145/40cc-SM	0.58C 0.30T	A++-A+	0650582	0660582	86	HERO 3000-840 S	1.00A	A++-A+	0657467	0667467	244
F-LINE-RT1X145/40cc-SM-SI	0.58C 0.30T	A++-A+	0650582SI	0660582SI	86	HERO 3000-865 S	1.00A	A++-A+	0657468	0667468	244
F-LINE-RT2X115/20cc-SM	0.58C 0.30T	A++-A+	0650581	0660581	86	<b>HERO ... SF</b>					
F-LINE-RT2X145/30cc-SM	0.57C 0.32T	A++-A+	0650583	0660583	86	HERO 1260-840 SF-HT	1.00D	A++-A+	0657461	0667461	245
<b>FPL-EQ 595/4000-840 MPS</b>											
FPL-EE 1195/4000-830 MPS		A++-A+	0822477	0832477	204	HERO 1260-865 SF-HT	1.00D	A++-A+	0657462	0667462	245
FPL-EE 1195/4000-840 MPS		A++-A+	0822465	0832465	204	HERO 1500-840 SF	1.00D	A++-A+	0657457	0667457	245
FPL-EE 595/4000-830 MPS		A++-A+	0822473	0832473	204	HERO 1500-865 SF	1.00D	A++-A+	0657458	0667458	245
FPL-EE 595/4000-840 MPS	1.00C	A++-A+	0822467	0832467	204	HERO 2500-840 SF-HT	1.00D	A++-A+	0657463	0667463	245
<b>FPL-EQ 595/4000-840 OS</b>											
FPL-EE 1195/4000-830 OS		A++-A+	0822476	0832476	204	HERO 2500-865 SF-HT	1.00D	A++-A+	0657464	0667464	245
FPL-EE 1195/4000-840 OS		A++-A+	0822464	0832464	204	HERO 3000-840 SF	1.00D	A++-A+	0657459	0667459	245
FPL-EE 595/4000-830 OS		A++-A+	0822472	0832472	204	HERO 3000-865 SF	1.00D	A++-A+	0657460	0667460	245
FPL-EE 595/4000-840 OS	1.00D	A++-A+	0822466	0832466	204	<b>HPL 3000/... PC</b>					
<b>FPL-EQ 622/4000-840 MPS</b>											
FPL-EE 1245/4000-830 MPS		A++-A+	0822479	0832479	205	HPL 3006000-830 PC	0.88A	A++-A+	0321389	0331389	320
FPL-EE 1245/4000-840 MPS		A++-A+	0822469	0832469	205	HPL 3006000-840 PC	0.88A	A++-A+	0321386	0331386	320
FPL-EE 622/4000-830 MPS		A++-A+	0822475	0832475	205	HPL 3009000-830 PC	0.88A	A++-A+	0321385	0331385	320
FPL-EE 622/4000-840 MPS	1.00C	A++-A+	0822471	0832471	205	HPL 3009000-840 PC	0.88A	A++-A+	0321382	0331382	320
<b>FPL-EQ 622/4000-840 OS</b>											
FPL-EE 1245/4000-830 OS		A++-A+	0822478	0832478	205	<b>HPL 3007/... PM</b>					
FPL-EE 1245/4000-840 OS		A++-A+	0822468	0832468	205	HPL 3006000-830 PM	0.88A	A++-A+	0321388	0331388	320
FPL-EE 622/4000-830 OS		A++-A+	0822474	0832474	205	HPL 3006000-840 PM	0.88A	A++-A+	0321385	0331385	320
FPL-EE 622/4000-840 OS	1.00D	A++-A+	0822470	0832470	205	HPL 3009000-830 PM	0.88A	A++-A+	0321384	0331384	320
<b>FROGG ... 830 F</b>											
FROGG 190/3500-830 F	1.00A	A++-A+	0326590	0336590	272	HPL 3009000-840 PM	0.88A	A++-A+	0321391	0331391	320
FROGG 190/3500-840 F	1.00A	A++-A+	0326586	0336586	272	<b>HPL 3007/... PM</b>					
<b>FROGG ... 830 I</b>											
FROGG 190/3500-830 I	1.00A	A++-A+	0326589	0336589	272	HPL 3006000-830 PM	0.87A	A++-A+	0321380	0331380	321
FROGG 190/3500-840 I	1.00A	A++-A+	0326585	0336585	272	HPL 3006000-840 PM	0.87A	A++-A+	0321387	0331387	321
<b>FROGG ... 830 S</b>											
FROGG 190/3500-830 S	1.00A	A++-A+	0326588	0336588	272	HPL 3009000-830 PM	0.88A	A++-A+	0321386	0331386	320
FROGG 190/3500-840 S	1.00A	A++-A+	0326584	0336584	272	HPL 3009000-840 PM	0.88A	A++-A+	0321383	0331383	321
<b>FROGG ... 830 SF</b>											
FROGG 190/3500-830 SF	1.00A	A++-A+	0326591	0336591	273	<b>HPL-BA 300/... PC</b>					
FROGG 190/3500-840 SF	1.00A	A++-A+	0326587	0336587	273	HPL-BA 300/11000-830 PC	0.93A 0.03T	A++-A+	0321425	0331425	322
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IHL-S 180/935-840 W	0.77C	A++A+ <sup>5</sup>	0650602	0660602	353	LF-T16-S-R1X055/15xx-SM-SI		A++A+ <sup>1</sup>	0450010SI	0460010SI	374
IHL-S 254/820-840 W	0.77C	A++A+ <sup>5</sup>	0650069	0660069	353	LF-T16-S-R1X115/30xx-SM	0.75D	A++A+ <sup>1</sup>	0450020	0460020	374
IHL-S 280/1870-840 W	0.68C	A++A+ <sup>5</sup>	0650603	0660603	353	LF-T16-S-R1X115/30xx-SM-SI	0.75D	A++A+ <sup>1</sup>	0450020SI	0460020SI	374
IHL-S 324/570-840 W		A++A+ <sup>5</sup>	0650071	0660071	353	LF-T16-S-R1X145/35xx-SM	0.75D	A++A+ <sup>1</sup>	0450026	0460026	374
IHL-S 354/1230-840 W	0.77C	A++A+ <sup>5</sup>	0650072	0660072	353	LF-T16-S-R1X145/35xx-SM-SI	0.75D	A++A+ <sup>1</sup>	0450026SI	0460026SI	374
IHL-S 380/2520-840 W	0.77C	A++A+ <sup>5</sup>	0650604	0660604	353	LF-T16-S-R1X145/45xx-SM		A++A+ <sup>1</sup>	0450069	0460069	374
IHL-S 424/760-840 W		A++A+ <sup>5</sup>	0650074	0660074	353	LF-T16-S-R1X145/45xx-SM-SI		A++A+ <sup>1</sup>	0450069SI	0460069SI	374
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IHL-S 480/3360-840 W	0.77C	A++A+ <sup>5</sup>	0650605	0660605	353	LF-R1X055/15xx-O		A++A+ <sup>1</sup>	0550015	0560015	332
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KARO-L 3500-830 F	0.80A	A++A+ <sup>2</sup>	0321896	0331896	306	LF-R1X150/40xx-O	0.65G 0.16T	A++A+ <sup>1</sup>	0550025	0560025	332
KARO-L 3500-830 F-SI	0.80A	A++A+ <sup>2</sup>	0321896SI	0331896SI	306	LF-R2X055/15xx-O		A++A+ <sup>1</sup>	0550030	0560030	332
KARO-L 3500-840 F	0.80A	A++A+ <sup>2</sup>	0321889	0331889	306	LF-R2X120/25xx-O	0.85G 0.16T	A++A+ <sup>1</sup>	0550034	0560034	332
KARO-L 3500-840 F-SI	0.80A	A++A+ <sup>2</sup>	0321889SI	0331889SI	306	LF-R2X150/40xx-O	0.63G 0.14T	A++A+ <sup>1</sup>	0550039	0560039	332
<b>KARO-L ... M</b>						<b>LF-R ... PR</b>					
KARO-L 3500-830 M	0.94A	A++A+ <sup>2</sup>	0321895	0331895	306	LF-R1X055/15xx-PR		A++A+ <sup>1</sup>	0550018	0560018	332
KARO-L 3500-830 M-SI	0.94A	A++A+ <sup>2</sup>	0321895SI	0331895SI	306	LF-R1X120/25xx-PR	0.84D 0.11T	A++A+ <sup>1</sup>	0550023	0560023	332
KARO-L 3500-840 M	0.94A	A++A+ <sup>2</sup>	0321888	0331888	306	LF-R1X150/40xx-PR	0.84D 0.11T	A++A+ <sup>1</sup>	0550028	0560028	332
KARO-L 3500-840 M-SI	0.94A	A++A+ <sup>2</sup>	0321888SI	0331888SI	306	LF-R2X055/15xx-PR		A++A+ <sup>1</sup>	0550032	0560032	332
<b>KARO-L ... S</b>						LF-R2X120/25xx-PR	0.84D 0.11T	A++A+ <sup>1</sup>	0550037	0560037	332
KARO-L 3500-830 S	0.94A	A++A+ <sup>2</sup>	0321894	0331894	306	LF-R2X150/40xx-PR	0.84D 0.09T	A++A+ <sup>1</sup>	0550042	0560042	332
KARO-L 3500-830 S-SI	0.94A	A++A+ <sup>2</sup>	0321894SI	0331894SI	306	<b>LFN-R ... PRT</b>					
KARO-L 3500-840 S	0.94A	A++A+ <sup>2</sup>	0321887	0331887	306	LFN-R1X055/15xx-PRT		A++A+ <sup>1</sup>	0550019	0560019	332
KARO-L 3500-840 S-SI	0.94A	A++A+ <sup>2</sup>	0321887SI	0331887SI	306	LFN-R1X120/25xx-PRT		A++A+ <sup>1</sup>	0550024	0560024	332
<b>KARO-S ... F</b>						LFN-R1X150/40xx-PRT		A++A+ <sup>1</sup>	0550029	0560029	332
KARO-S 2500-830 F	0.72A	A++A+ <sup>2</sup>	0321893	0331893	305	LFN-R2X055/15xx-PRT		A++A+ <sup>1</sup>	0550033	0560033	332
KARO-S 2500-830 F-SI	0.72A	A++A+ <sup>2</sup>	0321893SI	0331893SI	305	LFN-R2X120/25xx-PRT		A++A+ <sup>1</sup>	0550038	0560038	332
KARO-S 2500-840 F	0.72A	A++A+ <sup>2</sup>	0321886	0331886	305	LFN-R2X150/40xx-PRT		A++A+ <sup>1</sup>	0550043	0560043	332
KARO-S 2500-840 F-SI	0.72A	A++A+ <sup>2</sup>	0321886SI	0331886SI	305	<b>LFN-T16-R ... O</b>					
<b>KARO-S ... M</b>						LFN-T16-R1X055/15xx-O		A++A+ <sup>1</sup>	0550013	0560013	334
KARO-S 2500-830 M	0.85A	A++A+ <sup>2</sup>	0321892	0331892	304	LFN-T16-R1X115/30xx-O	0.66E 0.14T	A++A+ <sup>1</sup>	0550018	0560018	334
KARO-S 2500-830 M-SI	0.85A	A++A+ <sup>2</sup>	0321892SI	0331892SI	304	LFN-T16-R1X145/35xx-O	0.66E 0.14T	A++A+ <sup>1</sup>	0550048	0560048	334
KARO-S 2500-840 M	0.85A	A++A+ <sup>2</sup>	0321885	0331885	304	LFN-T16-R2X115/30xx-O		A++A+ <sup>1</sup>	0550049	0560049	334
KARO-S 2500-840 M-SI	0.85A	A++A+ <sup>2</sup>	0321885SI	0331885SI	304	LFN-T16-R2X145/35xx-O		A++A+ <sup>1</sup>	0550050	0560050	334
<b>KARO-S ... S</b>						<b>LFN-T16-R ... P</b>					
KARO-S 2500-830 S	0.86A	A++A+ <sup>2</sup>	0321891	0331891	304	LFN-T16-R1X055/15xx-P		A++A+ <sup>1</sup>	0550014	0560014	334
KARO-S 2500-830 S-SI	0.86A	A++A+ <sup>2</sup>	0321891SI	0331891SI	304	LFN-T16-R1X115/30xx-P	0.75E 0.14T	A++A+ <sup>1</sup>	0550009	0560009	334
KARO-S 2500-840 S	0.86A	A++A+ <sup>2</sup>	0321884	0331884	304	LFN-T16-R1X145/35xx-P	0.75E 0.14T	A++A+ <sup>1</sup>	0550011	0560011	334
KARO-S 2500-840 S-SI	0.86A	A++A+ <sup>2</sup>	0321884SI	0331884SI	304	LFN-T16-R2X055/15xx-P		A++A+ <sup>1</sup>	0550072	0560072	334
<b>LENSES-PD ... SEN</b>						LFN-T16-R2X115/30xx-P		A++A+ <sup>1</sup>	0550073	0560073	334
LENSES-PD 1100xx840 SEN		A++A+ <sup>2</sup>		0637488	40	LFN-T16-R2X145/35xx-P		A++A+ <sup>1</sup>	0550074	0560074	334
LENSES-PD 1600xx840 SEN		A++A+ <sup>2</sup>		0637489	40	<b>LUPO ... F</b>					
<b>LENSES-PD ...</b>						LUPO 2400 BA-F	1.00A	A++A+ <sup>2</sup>	0326565	0336565	303
LENSES-PD1000xx840		A++A+ <sup>2</sup>		0637482	38	LUPO 2400 BA-F-FSW	1.00A	A++A+ <sup>2</sup>	0326565AQ	0336565AQ	303
LENSES-PD1500xx840		A++A+ <sup>2</sup>		0637483	38	LUPO 2400 BA-F-SI	1.00A	A++A+ <sup>2</sup>	0326565SI	0336565SI	303
LENSES-PD 700xx840		A++A+ <sup>2</sup>		0637481	38	LUPO 2400 FL-F	1.00A	A++A+ <sup>2</sup>	0326564	0336564	303
<b>LENSES-PD-B ...</b>						LUPO 2400 FL-F-FSW	1.00A	A++A+ <sup>2</sup>	0326564AQ	0336564AQ	303
LENSES-PD-B 1000xx840		A++A+ <sup>2</sup>	0627437	0637437	39	LUPO 2400 FL-F-SI	1.00A	A++A+ <sup>2</sup>	0326564SI	0336564SI	303
LENSES-PD-B 1500xx840		A++A+ <sup>2</sup>	0627438	0637438	39	LUPO 3000-830 F	1.00A	A++A+ <sup>2</sup>	0326560	0336560	303
LENSES-PD-B 700xx840		A++A+ <sup>2</sup>	0627436	0637436	39	LUPO 3000-830 F-FSW	1.00A	A++A+ <sup>2</sup>	0326560AQ	0336560AQ	303
<b>LENSES-PDI ... SEN</b>						LUPO 3000-830 F-SI	1.00A	A++A+ <sup>2</sup>	0326560SI	0336560SI	303
LENSES-PDI 1100xx840 SEN		A++A+ <sup>2</sup>		0637491	40	LUPO 3000-840 F	1.00A	A++A+ <sup>2</sup>	0326561	0336561	303
LENSES-PDI 1600xx840 SEN		A++A+ <sup>2</sup>		0637492	40	LUPO 3000-840 F-FSW	1.00A	A++A+ <sup>2</sup>	0326561AQ	0336561AQ	303
<b>LENSES-PDI ...</b>						LUPO 3000-840 F-SI	1.00A	A++A+ <sup>2</sup>	0326561SI	0336561SI	303
LENSES-PDI1000xx840		A++A+ <sup>2</sup>		0637485	38	LUPO 3800-830 F	1.00A	A++A+ <sup>2</sup>	0326562	0336562	303
LENSES-PDI 1500xx840		A++A+ <sup>2</sup>		0637486	38	LUPO 3800-830 F-FSW	1.00A	A++A+ <sup>2</sup>	0326562AQ	0336562AQ	303
LENSES-PDI 700xx840		A++A+ <sup>2</sup>		0637484	38	LUPO 3800-830 F-SI	1.00A	A++A+ <sup>2</sup>	0326562SI	0336562SI	303
<b>LENSES-PDI-B ...</b>						LUPO 3800-840 F	1.00A	A++A+ <sup>2</sup>	0326563	0336563	303
LENSES-PDI-B 1000xx840		A++A+ <sup>2</sup>	0627440	0637440	39	LUPO 3800-840 F-FSW	1.00A	A++A+ <sup>2</sup>	0326563AQ	0336563AQ	303
LENSES-PDI-B 1500xx840		A++A+ <sup>2</sup>	0627441	0637441	39	LUPO 3800-840 F-SI	1.00A	A++A+ <sup>2</sup>	0326563SI	0336563SI	303
LENSES-PDI-B 700xx840		A++A+ <sup>2</sup>	0627439	0637439	39	<b>LUPO ... M</b>					
<b>LENSES-S ... SEN</b>						LUPO 2400 BA-M	1.00A	A++A+ <sup>2</sup>	0326581	0336581	302
LENSES-S 1400xx840 SEN		A++A+ <sup>2</sup>		0637493	111	LUPO 2400 BA-M-FSW	1.00A	A++A+ <sup>2</sup>	0326581AQ	0336581AQ	302
<b>LENSES-S ...</b>						LUPO 2400 BA-M-SI	1.00A	A++A+ <sup>2</sup>	0326581SI	0336581SI	302
LENSES-S 1400xx840		A++A+ <sup>2</sup>	0627442	0637442	111	LUPO 2400 FL-M	1.00A	A++A+ <sup>2</sup>	0326580	0336580	302
<b>LF-LED 218 ... 0-IP64</b>						LUPO 2400 FL-M-FSW	1.00A	A++A+ <sup>2</sup>	0326580AQ	0336580AQ	302
LF-LED 218/1250/830	0.71E 0.07T	A++A+ <sup>2</sup>	0422154/649	0432154/649	376	LUPO 2400 FL-M-SI	1.00A	A++A+ <sup>2</sup>	0326580SI	0336580SI	302
LF-LED 218/1300/840	0.71E 0.07T	A++A+ <sup>2</sup>	0422154	0432154	376	LUPO 3000-830 M	1.00A	A++A+ <sup>2</sup>	0326584	0336584	302
LF-LED 218/2500/830	0.67E 0.07T	A++A+ <sup>2</sup>	0422156/649	0432156/649	376	LUPO 3000-830 M-SI	1.00A	A++A+ <sup>2</sup>	0326584SI	0336584SI	302
LF-LED 218/2600/840	0.67E 0.07T	A++A+ <sup>2</sup>	0422156	0432156	376	LUPO 3000-840 M	1.00A	A++A+ <sup>2</sup>	0326589	0336589	302
<b>LF-LED 414 ... 0-IP64</b>						LUPO 3000-840 M-FSW	1.00A	A++A+ <sup>2</sup>	0326589AQ	0336589AQ	302
LF-LED 414/1000/830	0.71E 0.07T	A++A+ <sup>2</sup>	0422158/649	0432158/649	376	LUPO 3000-840 M-SI	1.00A	A++A+ <sup>2</sup>	0326589SI	0336589SI	302
LF-LED 414/1040/840	0.71E 0.07T	A++A+ <sup>2</sup>	0422158	0432158	376	LUPO 3800-830 M	1.00A	A++A+ <sup>2</sup>	0326574	0336574	302
LF-LED 414/5000/830	0.71E 0.07T	A++A+ <sup>2</sup>	0422155/649	0432155/649	376	LUPO 3800-830 M-FSW	1.00A	A++A+ <sup>2</sup>	0326574AQ	0336574AQ	302
LF-LED 414/5200/840	0.71E 0.07T	A++A+ <sup>2</sup>	0422155	0432155	376	LUPO 3800-830 M-SI	1.00A	A++A+ <sup>2</sup>	0326574SI	0336574SI	302
<b>LF-T16-S-R ... AS</b>						LUPO 3800-840 M	1.00A	A++A+ <sup>2</sup>	0326575	0336575	302
LF-T16-S-R1X055/15xx-AS		A++A+ <sup>1</sup>	0450014	0460014	375	LUPO 3800-840 M-FSW	1.00A	A++A+ <sup>2</sup>	0326575AQ	0336575AQ	302
LF-T16-S-R1X055/15xx-AS-SI		A++A+ <sup>1</sup>	0450014SI	0460014SI	375	LUPO 3800-840 M-SI	1.00A	A++A+ <sup>2</sup>	0326575SI	0336575SI	302
LF-T16-S-R1X115/30xx-AS	0.85G 0.08T	A++A+ <sup>1</sup>	0450022	0460022	375	<b>LUPO ... S</b>					
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PFZB 1200/4000-840 DIV5	0.95E 0.05T	A++-A 2		0951216/309	379	RE-ECO 330/1800-830 H	0.73G 0.11T	A++-A 2		0400708	341	
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PFZ0-T16-R2X115/30xx-SET	0.75E 0.06T	A++-A 2		0950076/676	380	<b>RE-ECO 440 ... I</b>						
PFZ0-T16-R2X145/40xx-SET	0.75E 0.06T	A++-A 2		0950077/676	380	RE-ECO 440/3750-830 H	0.73G 0.13T	A++-A 2		0420720	343	
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PFZ0-T16-R1X145/45xx	0.81E 0.09T	A++-A 2		0950073	380	RE-LED 260/1300-830 H	0.69G 0.14T	A+		0430649	336	
PFZ0-T16-R2X055/15xx	0.75E 0.06T	A++-A 2		0950075	380	RE-LED 260/1300-830 H	0.69G 0.14T	A++-A 2		0420649	336	
PFZ0-T16-R2X115/30xx	0.75E 0.06T	A++-A 2		0950076	380	RE-LED 260/1300-830 H-2K	0.69G 0.14T	A++-A 2		0420028	336	
PFZ0-T16-R2X145/40xx	0.75E 0.06T	A++-A 2		0950077	380	RE-LED 260/1300-830 H-2K-RS	0.69G 0.14T	A++-A 2		0420028/336	336	
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PFZ0A-T16-R1X115/30xx	0.78E 0.09T	A++-A 2		0950079	380	RE-LED 260/1300-830 H-RS	0.69G 0.14T	A++-A 2		0420649/336	336	
PFZ0A-T16-R1X145/45xx	0.78E 0.09T	A++-A 2		0950080	380	RE-LED 260/1300-840 H	0.69G 0.14T	A++-A 2		0420651	336	
PFZ0A-T16-R2X055/15xx	0.77E 0.06T	A++-A 2		0950081	380	RE-LED 260/1300-840 H-2K	0.69G 0.14T	A++-A 2		0420024	336	
PFZ0A-T16-R2X115/30xx	0.77E 0.06T	A++-A 2		0950082	380	RE-LED 260/1300-840 H-2K-RS	0.69G 0.14T	A++-A 2		0420024/336	336	
PFZ0A-T16-R2X145/40xx	0.77E 0.06T	A++-A 2		0950083	380	RE-LED 260/1300-840 H-EDS3	0.69G 0.14T	A++-A 2		0420651/377	336	
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PLF-T16-R1X145/35xx-0	0.66E 0.14T	A++-A 2		0951020	382	<b>RE-LED ... HPC</b>						
PLF-T16-R2X115/30xx-0	0.64E 0.14T	A++-A 2		0951024	382	RE-LED 260/1300-830 HPC	0.69G 0.14T	A+		0430650	336	
PLF-T16-R2X145/35xx-0	0.64E 0.14T	A++-A 2		0951028	382	RE-LED 260/1300-830 HPC	0.69G 0.14T	A++-A 2		0420650	336	
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PLF-T16-R1X145/35xx-PR	0.75E 0.14T	A++-A 2		0951022	382	RE-LED 260/1300-830 HPC-2K-RS	0.69G 0.14T	A++-A 2		0420026/336	336	
PLF-T16-R2X115/30xx-PR	0.74E 0.14T	A++-A 2		0951026	382	RE-LED 260/1300-830 HPC-EDS3	0.69G 0.14T	A++-A 2		0420650/377	336	
PLF-T16-R2X145/35xx-PR	0.74E 0.14T	A++-A 2		0951030	382	RE-LED 260/1300-830 HPC-RS	0.69G 0.14T	A++-A 2		0420650/336	336	
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Q3-LED 800-840 MPO-SI	0.65C	A++-A 2		0623549SI	42	RE-LED 260/1300-840 HPC-2K	0.69G 0.14T	A++-A 2		0420026	336	
Q4-LED 1300-840 MPO	0.70C	A++-A 2		0623551	42	RE-LED 260/1300-840 HPC-2K-RS	0.69G 0.14T	A++-A 2		0420026/377	336	
Q4-LED 1300-840 MPO-SI	0.70C	A++-A 2		0623551SI	42	RE-LED 260/1300-840 HPC-EDS3	0.69G 0.14T	A++-A 2		0420650/377	336	
Q5-LED 2400-840 MPO	0.69C	A++-A 2		0623553	42	RE-LED 260/1300-830 HPC-RS	0.69G 0.14T	A++-A 2		0420650/336	336	
Q5-LED 2400-840 MPO-SI	0.69C	A++-A 2		0623553SI	42	RE-LED 260/1300-840 HPC	0.69G 0.14T</					



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VLMF-LED-HW-C 600-11 Z			1520097/367		183	VLMF-LUPO 3000-840 F-SW	1.00A	A++-A ²	0326561S680		155
VLMF-LED-HW-C 600-11 Z-UR			1520097/366		183	VLMF-LUPO 3000-840 F-SW-DA	1.00A	A++-A ²	0326561S680	0326561S680	155
<b>VLMF-LED-HW ... -7</b>						<b>VLMF-LUPO ... M</b>					
VLMF-LED-HW-B 600-7 EDS3			1520096/377		183	VLMF-LUPO 3000-830 M	1.00A	A++-A ²	0326568/680		155
VLMF-LED-HW-B 600-7 SI-EDS3			1520096S377		183	VLMF-LUPO 3000-830 M-DA	1.00A	A++-A ²	0326568/680	0326568/680	155
VLMF-LED-HW-B 600-7 SI-Z			1520096S329		183	VLMF-LUPO 3000-830 M-SI	1.00A	A++-A ²	0326568S680		155
VLMF-LED-HW-B 600-7 SI-Z-UR			1520096S373		183	VLMF-LUPO 3000-830 M-SI-DA	1.00A	A++-A ²	0326568S680	0326568S680	155
VLMF-LED-HW-B 600-7 Z			1520096/329		183	VLMF-LUPO 3000-830 M-SW	1.00A	A++-A ²	0326568S680		155
VLMF-LED-HW-B 600-7 Z-UR			1520096/373		183	VLMF-LUPO 3000-830 M-SW-DA	1.00A	A++-A ²	0326568S680	0326568S680	155
VLMF-LED-HW-C 600-7 EDS3			1520097/377		183	VLMF-LUPO 3000-840 M	1.00A	A++-A ²	0326569/680		155
VLMF-LED-HW-C 600-7 SI-EDS3			1520097S377		183	VLMF-LUPO 3000-840 M-DA	1.00A	A++-A ²	0326569/680	0326569/680	155
VLMF-LED-HW-C 600-7 SI-Z			1520097S329		183	VLMF-LUPO 3000-840 M-SI	1.00A	A++-A ²	0326569S680		155
VLMF-LED-HW-C 600-7 SI-Z-UR			1520097S373		183	VLMF-LUPO 3000-840 M-SI-DA	1.00A	A++-A ²	0326569S680	0326569S680	155
VLMF-LED-HW-C 600-7 Z			1520097/329		183	VLMF-LUPO 3000-840 M-SW	1.00A	A++-A ²	0326569S680		155
VLMF-LED-HW-C 600-7 Z-UR			1520097/373		183	VLMF-LUPO 3000-840 M-SW-DA	1.00A	A++-A ²	0326569S680	0326569S680	155
<b>VLMF-LED-NL 600-11 ...-M</b>						<b>VLMF-LUPO ... M</b>					
VLMF-LED-NL 600-11 EB3-M			1520183/401		182	VLMF-LUPO 3000-830 M	1.00A	A++-A ²	0326568/680		155
VLMF-LED-NL 600-11 SI-EB3-M			1520183S401		182	VLMF-LUPO 3000-830 M-DA	1.00A	A++-A ²	0326568S680	0326568S680	155
VLMF-LED-NL 600-11 SI-Z-M			1520183S367		182	VLMF-LUPO 3000-830 M-SI	1.00A	A++-A ²	0326568S680		155
VLMF-LED-NL 600-11 Z-M			1520183/367		182	VLMF-LUPO 3000-830 M-SI-DA	1.00A	A++-A ²	0326568S680	0326568S680	155
<b>VLMF-LED-NL 600-7 ...-M</b>						<b>VLMF-LUPO ... M</b>					
VLMF-LED-NL 600-7 EB3-M			1520183/400		182	VLMF-LUPO 3000-830 M-SW	1.00A	A++-A ²	0326568S680		155
VLMF-LED-NL 600-7 SI-EB3-M			1520183S400		182	VLMF-LUPO 3000-840 M	1.00A	A++-A ²	0326569/680		155
VLMF-LED-NL 600-7 SI-Z-M			1520183S329		182	VLMF-LUPO 3000-840 M-DA	1.00A	A++-A ²	0326569/680	0326569/680	155
VLMF-LED-NL 600-7 Z-M			1520183/329		182	VLMF-LUPO 3000-840 M-SI	1.00A	A++-A ²	0326569S680		155
<b>VLMF-PABLO ... F</b>						<b>VLMF-LUPO ... M</b>					
VLMF-PABLO-L LED 2650-840 F	0.67A	A++-A ²	0321842/654	0331842/654	191	VLMF-LUPO 3000-840 M-SW	1.00A	A++-A ²	0326569S680		155
VLMF-PABLO-L LED 2650-840 F-SI	0.67A	A++-A ²	0321842S654	0331842S654	191	VLMF-LUPO 3000-840 M-SW-DA	1.00A	A++-A ²	0326569S680	0326569S680	155
VLMF-PABLO-L LED 3550-840 F	0.67A	A++-A ²	0321844/654	0331844/654	191	VLMF-LUPO 3000-830 M	1.00A	A++-A ²	0326574/680		155
VLMF-PABLO-L LED 3550-840 F-SI	0.67A	A++-A ²	0321844S654	0331844S654	191	VLMF-LUPO 3000-830 M-DA	1.00A	A++-A ²	0326574S680	0326574S680	155
<b>VLMF-PABLO ... M</b>						<b>VLMF-LUPO ... M</b>					
VLMF-PABLO-L LED 2650-840 M	0.83A	A++-A ²	0321856/654	0331856/654	190	VLMF-LUPO 3000-830 M-SI	1.00A	A++-A ²	0326574S680		155
VLMF-PABLO-L LED 2650-840 M-SI	0.83A	A++-A ²	0321856S654	0331856S654	190	VLMF-LUPO 3000-830 M-SI-DA	1.00A	A++-A ²	0326574S680	0326574S680	155
VLMF-PABLO-L LED 3550-840 M	0.83A	A++-A ²	0321857/654	0331857/654	190	VLMF-LUPO 3000-830 M-SW	1.00A	A++-A ²	0326575/680		155
VLMF-PABLO-L LED 3550-840 M-SI	0.83A	A++-A ²	0321857S654	0331857S654	190	VLMF-LUPO 3000-830 M-SW-DA	1.00A	A++-A ²	0326575/680	0326575/680	155
<b>VLMF-PABLO ... S</b>						<b>VLMF-LUPO ... S</b>					
VLMF-PABLO-L LED 2650-840 S	0.72A	A++-A ²	0321841/654	0331841/654	190	VLMF-LUPO 3000-840 M-DA	1.00A	A++-A ²	0326575S680		155
VLMF-PABLO-L LED 2650-840 S-SI	0.72A	A++-A ²	0321841S654	0331841S654	190	VLMF-LUPO 3000-840 M-SI	1.00A	A++-A ²	0326575S680	0326575S680	155
VLMF-PABLO-L LED 3550-840 S	0.72A	A++-A ²	0321843/654	0331843/654	190	VLMF-LUPO 3000-840 M-SI-DA	1.00A	A++-A ²	0326575S680	0326575S680	155
VLMF-PABLO-L LED 3550-840 S-SI	0.72A	A++-A ²	0321843S654	0331843S654	190	VLMF-LUPO 3000-840 M-SW	1.00A	A++-A ²	0326575S680		155
<b>VLMF-SEN 600 ... AL</b>						<b>VLMF-LUPO ... S</b>					
VLMF-SEN 600-11 DALI-AL-TK2			1500073		186	VLMF-LUPO 3000-830 S	1.00A	A++-A ²	0326566/680		154
VLMF-SEN 600-11 SI-DALI-AL-TK2			1500073S		186	VLMF-LUPO 3000-830 S-DA	1.00A	A++-A ²	0326566/680	0326566/680	154
VLMF-SEN 600-11 SW-DALI-AL-TK2			1500073SW		186	VLMF-LUPO 3000-830 S-SI	1.00A	A++-A ²	0326566S680		154
VLMF-SEN 600-7 DALI-AL-T			1500070		186	VLMF-LUPO 3000-830 S-SI-DA	1.00A	A++-A ²	0326566S680	0326566S680	154
VLMF-SEN 600-7 DALI-AL-TL3			1500075		186	VLMF-LUPO 3000-830 S-SW	1.00A	A++-A ²	0326566S680		154
VLMF-SEN 600-7 SI-DALI-AL-T			1500070S		186	VLMF-LUPO 3000-830 S-SW-DA	1.00A	A++-A ²	0326566S680	0326566S680	154
VLMF-SEN 600-7 SI-DALI-AL-TL3			1500075S		186	VLMF-LUPO 3000-840 S	1.00A	A++-A ²	0326567/680		154
VLMF-SEN 600-7 SW-DALI-AL-T			1500070SW		186	VLMF-LUPO 3000-840 S-DA	1.00A	A++-A ²	0326567/680	0326567/680	154
<b>VLMF-SEN 600 ... ECO</b>						<b>VLMF-LUPO ... S</b>					
VLMF-SEN 600-11 DALI-ECO			1500079		186	VLMF-LUPO 3000-840 S-SI	1.00A	A++-A ²	0326567S680		154
VLMF-SEN 600-11 SW-DALI-ECO			1500079SW		186	VLMF-LUPO 3000-840 S-SI-DA	1.00A	A++-A ²	0326567S680	0326567S680	154
VLMF-SEN 600-7 DALI-ECO			1500078		186	VLMF-LUPO 3000-840 S-SW	1.00A	A++-A ²	0326567S680		154
VLMF-SEN 600-7 SW-DALI-ECO			1500078SW		186	VLMF-LUPO 3000-840 S-SW-DA	1.00A	A++-A ²	0326567S680	0326567S680	154
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VLMF-ST 300-5 SI			1500059S		184	VLMF-LUPO 3000-830 S-SI	1.00A	A++-A ²	0326572/680	0326572/680	154
VLMF-ST 300-5 SW			1500059SW		184	VLMF-LUPO 3000-830 S-SI-DA	1.00A	A++-A ²	0326572S680	0326572S680	154
<b>VLMF-ST 036-7</b>						<b>VLMF-LUPO ... S</b>					
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VLMF-ST 036-7 SI			1500101S		185	VLMF-LUPO 3000-830 S-SW-DA	1.00A	A++-A ²	0326572S680	0326572S680	154
VLMF-ST 036-7 SW			1500101SW		185	VLMF-LUPO 3000-840 S	1.00A	A++-A ²	0326573/680		154
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VLMF-ST 054-7 SI			1500102S		185	VLMF-LUPO 3000-840 S-SI	1.00A	A++-A ²	0326573S680		154
VLMF-ST 054-7 SW			1500102SW		185	VLMF-LUPO 3000-840 S-SI-DA	1.00A	A++-A ²	0326573S680	0326573S680	154
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VLMF-ST 058-7 SI			1500103S		185	VLMF-LUPO 3000-830 SF-DA	1.00A	A++-A ²	0326570/680	0326570/680	156
VLMF-ST 058-7 SW			1500103SW		185	VLMF-LUPO 3000-830 SF-SI	1.00A	A++-A ²	0326570S680		156
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VLMF-ST 080-7 SI			1500087S		185	VLMF-LUPO 3000-840 SF	1.00A	A++-A ²	0326571/680		156
VLMF-ST 080-7 SW			1500087SW		185	VLMF-LUPO 3000-840 SF-DA	1.00A	A++-A ²	0326571/680	0326571/680	156
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VLMF-ST 080-7 SI			1500088S		185	VLMF-LUPO 3000-840 SF-SI-DA	1.00A	A++-A ²	0326571S680	0326571S680	156
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VLPG-F180-7DAWS-6861840	0.82C	A++-A <sup>2</sup>	1532435	1532435	146	VL-T16 801-5 SI			1500040S		120
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



















































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The pictograms shown below are used to illustrate luminaire features, suitable lamp types, and performance information.

	Products marked with HR using high-quality MIRO-SILVER® reflector material		For lamps with E14 base		No protection against mechanical impact		High direct component
	Class II (Double Insulated)		For lamps with E27 base		Resistant to an outside impact up to 0,15 Joules as defined in IEC 62262		High indirect component
	Class III (SELV)		Built-in LED		Resistant to an outside impact up to 0,20 Joules as defined in IEC 62262		High direct component, asymmetric
	Minimum recommended distance between luminaire and lit surface				Resistant to an outside impact up to 0,35 Joules as defined in IEC 62262		High direct component, wide distribution
	Luminaire suitable for outdoor applications		Protection against objects > 12 mm		Resistant to an outside impact up to 0,50 Joules as defined in IEC 62262		Diffuse direct
	Luminaire suitable for indoor applications		Protection against objects ≥ 12.5 mm, protection from dripping water		Resistant to an outside impact up to 0,70 Joules as defined in IEC 62262		Diffuse indirect
	Luminaire suitable for "Under Canopy" outdoor applications		Protection against objects > 1 mm in diameter		Resistant to an outside impact up to 1,00 Joules as defined in IEC 62262		Diffuse asymmetric
	Reddot product design Award		Protection against objects > 1 mm in diameter and splashproof		Resistant to an outside impact up to 2,00 Joules as defined in IEC 62262		Diffuse wide
	iF design award from iF International Forum Design GmbH		Dustproof		Resistant to an outside impact up to 5,00 Joules as defined in IEC 62262		
	Low-profile design		Dustproof and splashproof		Resistant to an outside impact up to 10,00 Joules as defined in IEC 62262		No lateral spacing required between luminaire housing and adjacent surface
	Cut-out diameter for circular recessed downlighter		Dust-tight and splashproof		Resistant to an outside impact up to 20,00 Joules as defined in IEC 62262		25 mm lateral spacing required between luminaire housing and adjacent surface
	Cut-out dimension for square recessed downlighter		Dust-tight and jetproof				50 mm lateral spacing required between luminaire housing and adjacent surface
	1 Hour operation under emergency conditions		Dust-tight and protection against immersion in water to 1 metre depth				Presence detection
	3 Hour operation under emergency conditions						Daylight detection
	Maximum safe viewing distance						Remote control
							Operation of LED modules in Safety Extra Low Voltage less 60 V (SELV)
							The CE marking certifying compliance with the currently valid standards

**RIDI TUBES are not included.**  
**They must be ordered separately.**

**How to find the right RIDI TUBE on the basis of the R-TUBE category:**

To select the right RIDI-TUBE, look in the luminaire tables in the “R-TUBE Category” column.

There are two categories given for certain luminaires – here it is possible to choose between two wattages.

Lamps max.	R-TUBE Category
... 1xR-TUBE 30 W	E, F ...
... 1xR-TUBE 30 W	E, F ...
... 1xR-TUBE 35 W	H, I ...
... 1xR-TUBE 35 W	H, I ...

Two selections have to be made per category:

1. Light colour (830 for 3000 K, 840 for 4000 K, 865 for 6500 K)
2. Cover of the RIDI TUBE (opal, matt or clear) – for this there is a factory recommendation for each luminaire for optimum light quality.

**F-LINE-R ... SM**

Parabolic mirror louvre SM made of matt super-purity anodised aluminium with silver coating.  
**For RIDI-TUBE lamp, recommended cover: matt.**

Please also note the number of required lamps per luminaire. This is indicated in the “Maximum lamps” column in the luminaire tables. The wattage indicated here shows the maximum possible number of lamps. RIDI TUBES generally remain below this value.

R-TUBE Category	Model	Dimens. [mm] L	Wattage	Current [A]	Energy consump- [kWh/1000h]	Louvres	Light colour 865				Light colour 840				Light colour 830				R-TUBE Category												
							Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code	Luminous flux [lm]	Efficiency [lm/W]	EEC	Prod. code													
A	R-TUBE 055/8W 550 mm	550	8 W	0,60	10	clear matt opal	1400	167	A++	02067176D	1400	167	A++	0204999GD	1300	155	A++	0204998GD	1300	155	A++	0204997GD	A								
							1200	143	A++	02067156D	1200	143	A++	0204996GD	1100	131	A++	0204995GD	1200	143	A++	0204997GD		1100	131	A++	0204995GD				
B	R-TUBE 055/14W 550 mm	550	14 W	0,60	16	clear matt opal	2100	147	A++	02067026D	2100	147	A++	0205404GD	2000	140	A++	0205403GD	2000	140	A++	0205402GD	B								
							1800	126	A+	02067006D	1800	126	A+	0205401GD	1900	133	A++	0205405GD	1700	119	A+	0205400GD		1900	133	A++	0205405GD	1700	119	A+	0205400GD
C	R-TUBE 085/21W 850 mm	850	21 W	0,70	23	clear matt opal	3100	150	A++	02067056D	3100	150	A++	0206623GD	2800	145	A++	0206626GD	2800	145	A++	0206625GD	C								
							2600	125	A+	02067036D	2600	125	A+	0206622GD	2500	135	A++	0206625GD	2500	121	A+	0206624GD		2800	135	A++	0206625GD	2500	121	A+	0206624GD
E	R-TUBE 115/20W 1150 mm	1150	20 W	0,70	23	clear matt opal	3200	158	A++	02067236D	3200	158	A++	0206578GD	2800	153	A++	0206577GD	2800	153	A++	0206576GD	E								
							2700	133	A++	02067216D	2700	133	A++	0206574GD	2600	138	A++	0206575GD	2600	129	A+	0206573GD		2800	138	A++	0206576GD	2600	129	A+	0206573GD
F	R-TUBE 115/30W 1150 mm	1150	30 W	0,70	34	clear matt opal	4700	154	A++	02067086D	4700	154	A++	0206600GD	4200	148	A++	0206621GD	4200	148	A++	0206620GD	F								
							3900	128	A+	02067066D	3900	128	A+	0206602GD	3800	138	A++	0206620GD	3800	125	A+	0206619GD		4200	138	A++	0206620GD	3800	125	A+	0206619GD
G	R-TUBE 120/24W 1200 mm	1200	24 W	0,70	27	clear matt opal	3800	157	A++	02067116D	3800	157	A++	0206591GD	3600	153	A++	0206618GD	3600	153	A++	0206617GD	G								
							3200	132	A++	02067096D	3200	132	A++	0206593GD	3100	140	A++	0206617GD	3100	128	A+	0206616GD		3600	149	A++	0206592GD	3100	128	A+	0206616GD
H	R-TUBE 145/24W 1450 mm	1450	24 W	0,70	27	clear matt opal	3900	163	A++	02067266D	3900	163	A++	0206581GD	3700	155	A++	0206580GD	3700	155	A++	0206579GD	H								
							3200	134	A++	02067246D	3200	134	A++	0206583GD	3100	142	A++	0206579GD	3100	129	A+	0206582GD		3600	150	A++	0206580GD	3100	129	A+	0206582GD
I	R-TUBE 145/29-45W 1450 mm	1450	29-45 W	0,70-1,05	32-50	clear matt opal	4900-7100	167-156	A++	02067836D	4900-7100	167-156	A++	0206597GD	4600-6800	157-150	A++	0206605GD	4600-6800	157-150	A++	0206605GD	I								
							4500-6600	153-145	A++	02067826D	4500-6600	153-145	A++	0206598GD	4300-6300	147-139	A++	0206603GD	4300-6300	147-139	A++	0206603GD		4500-6600	153-145	A++	0206598GD	4300-6300	147-139	A++	0206603GD
							4100-5900	140-130	A+,A+	02067816D	4100-5900	140-130	A+,A+	0206599GD	3900-5700	133-125	A+,A+	0206606GD	3900-5700	133-125	A+,A+	0206606GD		4100-5900	140-130	A+,A+	0206599GD	3900-5700	133-125	A+,A+	0206606GD
J	R-TUBE 150/33W 1500 mm	1500	33 W	0,77	37	clear matt opal	5300	161	A++	02067146D	5300	161	A++	0206594GD	5100	155	A++	0206615GD	5100	155	A++	0206615GD	J								
							4900	149	A++	02067136D	4900	149	A++	0206595GD	4700	143	A++	0206614GD	4700	143	A++	0206614GD		4900	149	A++	0206595GD	4700	143	A++	0206614GD
							4500	137	A++	02067126D	4500	137	A++	0206596GD	4300	131	A++	0206613GD	4300	131	A++	0206613GD		4500	137	A++	0206596GD	4300	131	A++	0206613GD

There is a detailed description of the RIDI TUBE on page 20



## Please open out ...

On the back, you will find an

## overview of RIDI TUBES

broken down into categories.

Simply folding out the overview page allows you to find the right RIDI TUBE for your luminaire quickly and conveniently on the basis of the relevant R-TUBE category without turning over.



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