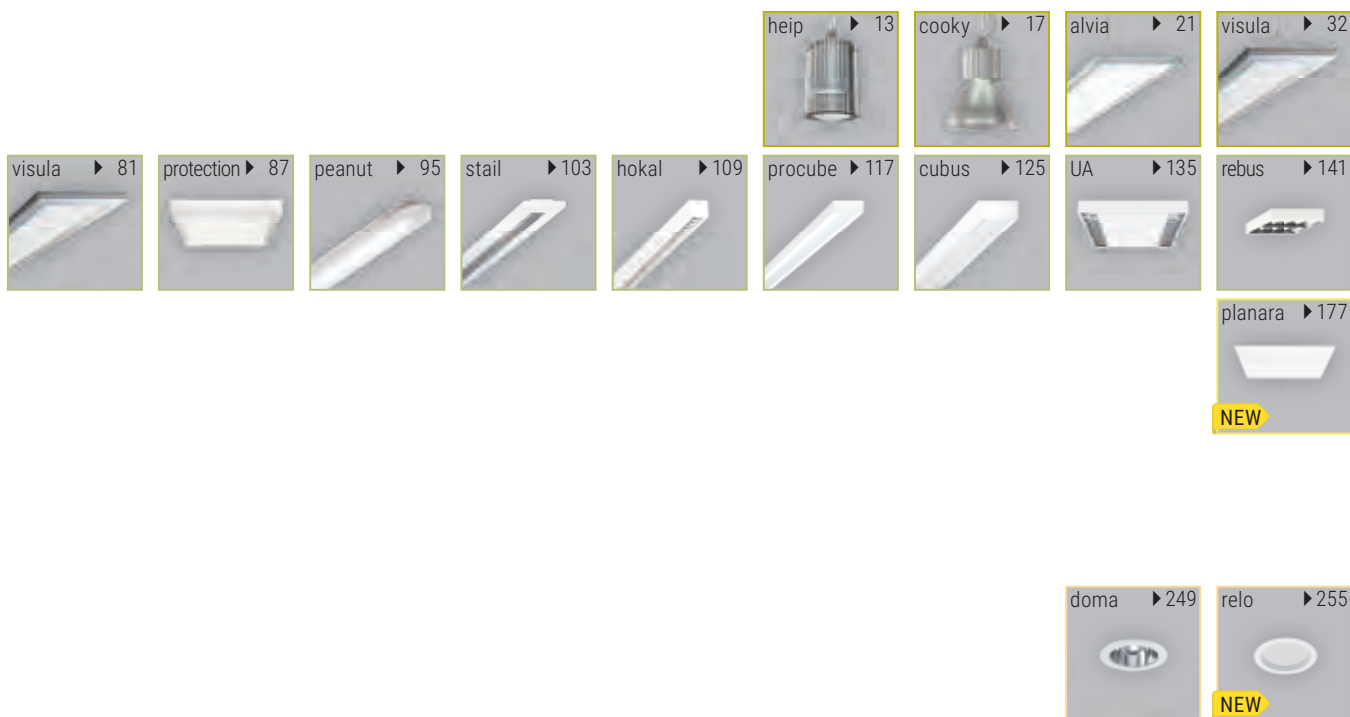


# Lighting Systems

functional · effektiv · efficient



**REGIOLUX**  
Made in Germany



## Exclusion of Liability

Illustrations, dimensions and weights in our catalogues, price lists and quotations are non-binding. Subject to technical changes, errors and color deviations. All luminaires have been designed for 230V 50Hz mains connection and ambient conditions according to DIN EN 60598 unless otherwise stated, and are supplied without lamps unless otherwise stated. Most of the indications with regard to certifications are presented in our catalogue in a general form. Verification with regard to products can be easily carried out on our website.

Because of the dynamics in the technical development especially in the field of LED modules and their drivers, the information in this paper can only be a snapshot of the current state and are therefore legally not binding. Please refer to our web site for current product specifications.

We point out that the orderer recognises our delivery and payment conditions unless he/she objects in writing when sending his/her order.



Please refer to the current data for LED luminaires under [www.regiolux.de](http://www.regiolux.de)  
 \*Information about manufacturer's guaranty of the LED luminaires under  
[http://www.regiolux.de/fileadmin/REGIOLUX/Service/Garantie/Warranty\\_LED\\_en.pdf](http://www.regiolux.de/fileadmin/REGIOLUX/Service/Garantie/Warranty_LED_en.pdf)



# Product groups



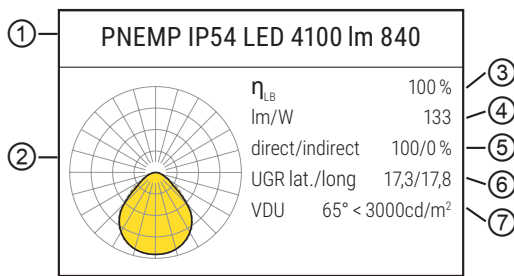
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# Description of page layout



- ① Product group
- ② Luminaire family, type
- ③ Certification: Overview and explanation in Technical information chapter 8: 8.6 Certification, insulation class and protection rating
- ④ Description with regard to lighting technology, housing, miscellaneous
- ⑤ Indications with regard to ceiling systems
- ⑥ Reference to accessories pages and products in other product groups
- ⑦ Light distribution curve (LVK) with data with regard to lighting technology of the reference product.  
Explanations in the following area Explanations
- ⑧ Dimensional table and sectional drawings: Explanations of the variables in the following area Explanations
- ⑨ Detail image with explanation
- ⑩ Product table: Explanations of the abbreviations in the following area Explanations
- ⑪ Table with spare parts / accessories (if available): Explanations of the abbreviations in the following area Explanations
- ⑫ Combination quick-fit mounting system: Component mounting rail
- ⑬ Combination quick-fit mounting system: Component device mount
- ⑭ Combination quick-fit mounting system: Component light direction
- ⑮ Combination quick-fit mounting system: Component light direction insert
- ⑯ Quick-fit mounting system: Combination
- ⑰ Quick-fit mounting system: Light distribution curve of the combination, explanations in the following area Explanations
- ⑱ Quick-fit mounting system: Dimensioned drawing of the combination
- ⑲ Indication to the product area mounting rail / device mount / light direction
- ⑳ Product image with energy efficiency class as well as icons and indication for functions and features

## Explanation of lighting technological data



### 1. Configuration

Possible deviations of luminous flux between magnetic ballasts (Llb) and electronic ballasts (ECG) are not considered.

### 2. Luminous intensity distribution

Luminous intensity distribution curves shown in the catalogue are represented according to DIN 5032. Only both primary planes are displayed: 0°/180° planes (at right angles to luminaire axis) as a continuous line and 90°/270° (parallel to luminaire axis) as a dotted line. Curves are scaled to represent 1000 lumens of lamp luminous flux.

### 3. Light output ratios $\eta_{LB}$

Light output ratios specified for each luminaire are calculated from the relation of luminous flux  $\Phi_L(\tau_L)$  emitted from the luminaire with an ambient luminaire temperature  $\tau_L = 25^\circ\text{C}$  and further standardised conditions to the sum of measured luminous flux of the lamps with open distribution transferred individually to the luminaire ballast.

In the case of LED luminaires, the principle of absolute photometry is increasingly applied. In this case, the light output ratio is indicated with 100%. Additionally, the luminous flux is indicated in the form of the measured luminous flux of the luminaire.

### 4. Luminous efficiency

The luminous efficiency is the luminous flux of a bulb or luminaire related to its electrical power consumption.

In the case of LED luminaires presented according to the principle of absolute photometry (light output ratio 100%), the indication refers to the lumen output of the luminaire which is described by the ratio between luminous flux of the luminaire and system performance of the luminaire.

### 5. Direct and indirect light components

For evaluating the efficiency and lighting effect of a lighting system within a room, specification of the direct and indirect beam components is helpful.

### 6. Glare reduction according to UGR method

According to DIN EN 12464-1, not only is reflected glare considered but also direct glare within a specific room. As a standard evaluation system the UGR (Unified Glare Rating) method was introduced in Europe as part of the DIN EN 12464-1 standard. Details concerning the UGR method are described in the CIE 117 publication. The UGR values (lat. and long) of a lighting installation, determined according a table for the position of a standard viewer, are not permitted to exceed the value specified by the standard. In order to compare the direct glare of various luminaires, UGR values of a number of manufacturers are specified with reference to a so-called standard room. Please note that a correct comparison is only possible if all room conditions are identical. In addition it must be noted that UGR values for a real installation may significantly differ to those of the standard room.

Values given are based upon the following definitions.

Room dimensions:

Distance of eye level to luminaire level: H

Room width X = 4H

Room length Y = 8H

Standard reflection factors (0,7 ceiling; 0,5 walls; 0,2 floor)

Luminaire arrangement parallel to Y axis Luminaire distances:

Distance of luminaire to luminaire (spacing) S = 0,25H

Distance of luminaire to wall  $\frac{1}{2}$  S = 0,125H

## Explanation of lighting technological data

### 7. Suitability for VDU workstations

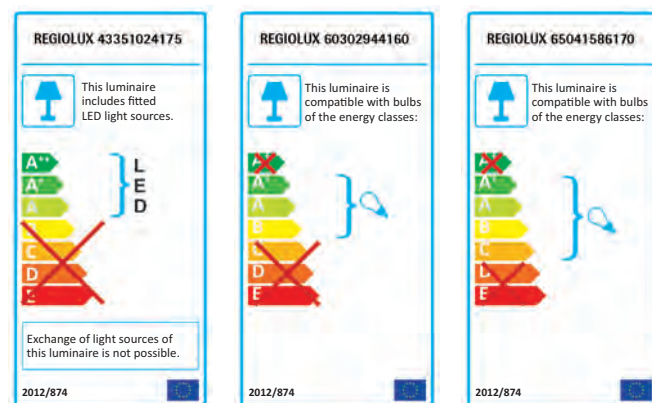
Here, the suitability of luminaires for VDU workstations according to DIN EN 12464-1 is specified. The degree number means that the luminance in all luminaire planes beyond that angle does not exceed certain limitation values. Depending on screen quality and screen visualisation, the norm specifies different limitation values. In case of a positive display on screens with an own luminance (< 200 cd/m<sup>2</sup>), a maximum of 1500 cd/m<sup>2</sup> and in case of screens with a high luminance (> 200 cd/m<sup>2</sup>), a maximum of 3000 cd/m<sup>2</sup> is permissible.

## Control gear

Abbr.	Description
ECG	Electronic ballast
Llb	Low-loss ballast
ind	Inductive, must be compensated on-site
comp	Compensated at works
NL-B1, NL-B3	Emergency light single battery; 1=1h, 3=3h
multi	Multiwatt
DALI	Digital Adressable Lighting Interface dimmable
M.	Master unit Typ 1-N
S.	Sensor unit Typ 1-N
ED	Electronic driver

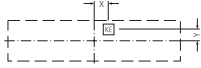
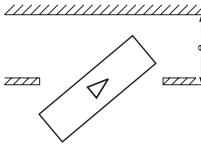
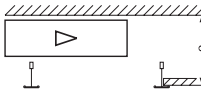
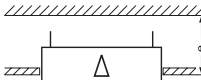
## Energy use designation






According to EU Ordinance 874/2012, lamps and luminaires are classified based on their energy consumption values. On luminaires, this marking relates to the attributes of the lamps with which they can be operated. The energy efficiency class A++ has the highest level of efficiency and Class E has the lowest efficiency. The classes indicated in the catalogue relate to a piece of lighting medium equipment in light colour 840 or 830. On luminaires with replaceable lighting mediums, the efficient classes may vary depending on the light colour used.












# Explanations

Definition of measurement table variables	
Abbr.	Description
A	Distance between the individual luminaires
A1	Fixing distance in case of single mounting
A2	Fixing distance for first or last luminaire in case of light run mounting
A3	Fixing distance for the middle luminaires or between the luminaires in case of light run mounting
A4	Fixing distance (width)
B	Width
D	Diameter
DA	Diameter of cut for recessed luminaires
DA <sub>b</sub>	Width of cut for recessed luminaires
DA <sub>l</sub>	Length of cut for recessed luminaires
DS min	Minimum ceiling thickness with suspended ceiling
DS max	Maximum ceiling thickness with suspended ceiling
Et	Mounting depth (necessary depth for luminaire mounting)
Et min	Minimum mounting depth (necessary depth for luminaire mounting during celing construction)
FB	Width of luminaire groundplate
FD	Diameter of luminaire groundplate
FL	Length of luminaire groundplate
H	Height
HS	Installation height of sensor
KB	Width of luminaire head or ballast box
KD	Diameter of luminaire head or ballast box
KE	Cable infeed
KH	Hight of luminaire head or ballast box
KL	Length of luminaire head or ballast box
L	Length
L2	Additional length
MB	Modul (axes) width
ML	Modul (axes) length
P	Suspension length
Pmin	Minimum suspension length
Pmax	Maximum suspension length
P <sub>sys</sub>	Luminaire system performance
Rb	Sensor detection radius
Rr	Sensor detection radius ideal movement towards the sensor
Rs	Sensor detection radius seated activity
Rt	Sensor detection radius tangential movement parallel towards the sensor
T	Depth
W	Wall distance
X	Distance from middel of the luminaire to the electrical feed in (X direction = length)
Y	Distance from middel of the luminaire to the electrical feed in (Y direction = width)

Description of measurement table variables	
	1. Positioning of electrical feed in.
	2. Required installation depth "Et" for swivelling of luminaire in visible T rail constructions (lay-in luminaires). Required installation depth "Et" for swivelling luminaire and control gear (if applicable) through ceiling cut-out (clamp mounting).
	3. Reduced installation depth "Et min" with aligning of luminaire above T rail construction (during ceiling construction).
	4. Required installation depth "Et" for swivelling of mounting bracket (clamp mounting).

Ceiling systems	
	Ceilings with visible T-rails
	For concealed symmetrical rail constructions
	For concealed asymmetrical rail constructions
	For recessed ceilings
	For panel ceilings, module 100, 150, 200

Cross references	
	Reference accessories
	Reference mounting rail installation
	Reference mounting note
	Reference product groups

Icons / functions features	
	Configuraton with sensor available
	Configuraton with emergency light unit available
	Configuration with illuminants
	LED (included)
	Beam angle

Materials	
Abbr.	Description
A03S-U	Recognised national cable type: measurement voltage 300 V to 300 V; Silicone rubber isolation material, heat-resistant to +180° C; Single-wire conductor, round
ABS	Acrylonitrile Butadiene Styrene Copolymerisate
Al	Aluminium
AlMgSi	Aluminium magnesium silicon (extruded section)
Cu	Copper
EPDM	Synthetic rubber
Glass	Glass
Glass matt	Matt glass
Glass (ESG)	Tempered single-pane safety glass
H03VV-F	Harmonised cable: measurement voltage 300 V to 300 V; Isolation material PVC, heat-resistant to +70° C; sheathing material PVC, heat-resistant to +70° C; fine-strand conductor, flexible
H05HH-F	Harmonised cable: measurement voltage 300 V to 500 V; Isolation material flat, divisible cable; sheathing material flat, divisible cable; fine-strand conductor, flexible
H05S-U	Harmonised cable: measurement voltage 300 V to 500 V; silicone rubber isolation material, heat-resistant to +180° C; single-wire conductor, round
H05V2-U	Harmonised cable: measurement voltage 300 V to 500 V; Isolation material PVC, heat-resistant to +90° C; single-wire conductor, round
H05VV-F	Harmonised cable: measurement voltage 300 V to 500 V; isolation material PVC, heat-resistant to +70° C; sheathing material PVC, heat-resistant to +70° C; fine-strand conductor, flexible
H07V2-U	Harmonised cable: measurement voltage 450 V to 750 V; isolation material PVC, heat-resistant to +90° C; single-wire conductor, round
Inox	Stainless steel
Inox V2A	Stainless steel (alloy type 1.4301 or X5CrNi18-10)
Inox V4A	Stainless steel (alloy type 1.4401 or X5CrNiMo17-12-2)
Mix	Diverse materials
PA	Polyamide
PC	Polycarbonate
PMMA	Polymethylmethacrylate (acrylic glass)
Polymer	plastic (not defined specifically)
Polymer clear	Plastic (crystal clear)
Reinforced polymer	Plastic (with admixture of reinforcing materials)
PS	Polystyrene
PVC	Polyvinyl chloride
St	Steel
StZn	Steel with zinc coating

Colour code	
Abbr.	Colour
al	aluminium
aeH	aluminium high gloss
aeS	aluminium matt gloss
aeN	aluminium natural anodized
ap	aluminium plate finish
am	anthracite metallic
bl	blue
bl/cr	blue chrome
cr	chrome
eg	brushed stainless steel
ge	yellow
ge/cr	yellow chrome
ga	grey
gr	green
hg	light grey
hgl	high gloss
kg	grit grey, RAL 7032
kl	clear
me	metallike
op	opal white
og	orange
ro	red
sw	black, RAL 9017
si	silver
sg	silver-grey, RAL 9006
tz	translucent
tp	transparent
vw	traffic white, RAL 9016
ws	white
wa	white-aluminium, RAL 9006





alvia



►21

►24 ALIMPR LED

stail



►43

- 44 SHPI LED
- 44 SHLPI LED
- 46 SHXI LED
- 46 SHLXI LED
- 48 SHPI T5
- 48 SHDI T5
- 48 SHXI T5

hokal



►51

- 52 HLHIG LED
- 52 HLHX LED
- 54 HLHG T5
- 54 HLHIG T5
- 54 HLHD T5
- 54 HLHID T5
- 54 HLHX T5
- 54 HLHIX T5



# Suspended luminaires

heip



▶13

- ▶14 HRLB LED
- ▶14 HRLTB LED

cooky



▶17

- ▶18 COHS IP20 TC-TEL

visula



▶29

- ▶32 VSHIG LED
- ▶32 VSHIMP LED

peanut



▶35

- ▶36 corridor-HGI LED
- ▶38 corridor-HGI T5
- ▶38 office-HZI T5
- ▶38 school-HLR T5
- ▶40 industry-H T5
- ▶40 board-HW T5
- ▶40 gallery-HWF T5

procube



▶59

- ▶60 CUHX LED
- ▶62 CUHIG T5
- ▶62 CUHID T5
- ▶62 CUHIX T5

cubus



▶67

- ▶68 RSAGHC LED
- ▶68 RSAXHC LED
- ▶70 RSADIC T5
- ▶70 RSAXIC T5
- ▶72 RSADIC T8
- ▶72 RSXAIC T8



### Light strips and furniture luminaires

ilia

▶ 278



IL

▶ 294



### Sport hall luminaires

sportler

▶ 492



THL

▶ 504



# Suspended luminaires

from other chapters



## Surface-mounted luminaires

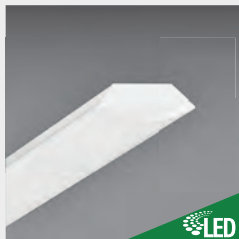


## Recessed luminaires

cubus ▶ 126



lens line ▶ 150



lens basic ▶ 156



panella ▶ 182



## Quick-fit mounting system



## High bay reflector and field luminaires

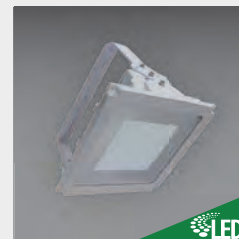
SDT-System ▶ 321



worker ▶ 442



quanta ▶ 448



hara ▶ 454



## Damp-proof luminaires

parsa ▶ 468



PU ▶ 472



PA ▶ 476



PC ▶ 478



PFL ▶ 482









# heip



## heip – the right format for quality

heip inspires by making the most of the advantages of LED technology such as energy efficiency and long service life. In designing heip we have created a format characterised by high quality criteria. Many important details aid in bringing forth the innate advantages of LED technology. heip features high grade lighting technology. Our careful selection of LED means you are given light with maximum quality. This becomes obvious with reliable colour rendition, high luminous flux and a stable colour locus. We have specified passive cooling for maximum energy efficiency and reliability, made especially effective with the highly elegant housing construction. The IP64 version further expands the application spectrum and invites confidence in the quality of its inner features. Not to forget, heip is supplied ready for connection and use.



### Type overview

- ▶ HRLB Mirror reflector, silky matt, with cover frame direct wide distribution
- ▶ HRLTB Mirror reflector, silky matt, with cover frame direct narrow/wide distribution



LED A++ 3000 CE IP 64

**Mounting:**

- Suspended

**Housing:**

- Extruded aluminium profile in cylindrical form, naturally anodised, die-cast aluminium housing cover, white aluminium powder-coated as contrast colour

**Lighting technology HRLB:**

- Mirror reflector, silky matt, with cover frame; aluminium
- Lighting characteristic direct wide distribution

**Lighting technology HRLTB:**

- Mirror reflector, silky matt, with cover frame; aluminium
- Lighting characteristic direct narrow/wide distribution suited for VDU workstations,  $65^\circ < 3000 \text{ cd/m}^2$

**Lamp:**

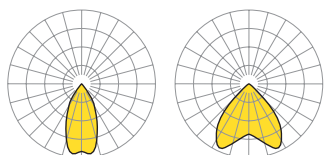
- LED 50000h L80/B10
- CRI  $\geq 80$  / 4000K or CRI  $\geq 80$  / 3000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

**Miscellaneous:**

- Individual wire suspension with grey connection cable and feed kit are included in delivery.



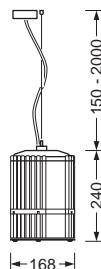
HRLTB LED 2600lm 830		HRLB LED 4600lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	137	lm/W	128
direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	17,9/17,9	UGR lat./long.	25,0/25,0
VDU	$65^\circ < 1500 \text{ cd/m}^2$		



The standard wire suspension kit included in the scope of delivery.

**Dimensions**

Type	Versions	LxBxH/DxH	P min/max
HRL	LED	168 x 240	150 - 2000 mm



**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Mirror reflector, silky matt, with cover frame direct wide distribution</i>							
heip-HRLB	LED 4400lm 830	36	aen	ED	168 x 240	3741 0144 120	3,60
	LED 4600lm 840	36	aen	ED	168 x 240	3741 0124 120	3,60
<i>Mirror reflector, silky matt, with cover frame direct narrow/wide distribution</i>							
heip-HRLTB	LED 2600lm 830	19	aen	ED	168 x 240	3741 0134 110	3,60
	LED 2800lm 840	19	aen	ED	168 x 240	3741 0114 110	3,60
	LED 4400lm 830	36	aen	ED	168 x 240	3741 0144 110	3,60
	LED 4700lm 840	36	aen	ED	168 x 240	3741 0124 110	3,60









# cooky



## cooky – pure technical aesthetics

The design is reminiscent of over-dimensional low voltage halogen lamps – technical aesthetics in a timeless design. Superior materials emphasize the high-quality appearance: such as the dual-coloured aluminium casing combined with translucent polycarbonate or aluminium reflectors.

## Type overview

- ▶ COHS IP20 Reflector, prismatic, semi-translucent vaporised direct wide distribution

# cooky TC



**Mounting:**

- Suspended

**Housing:**

- Extruded, natural anodised aluminium profile, die-cast aluminium housing cover, white aluminium powder-coated as contrast colour

**Lighting technology COHS IP20:**

- Reflector, prismatic, semi-translucent vaporised
- Lighting characteristic direct wide distribution suited for VDU workstations, 65° < 1000 cd/m²

**Lamp:**

- For fitting with lamp(s) TC-TEL

**Switching:**

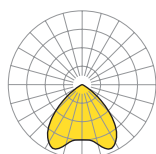
- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Miscellaneous:**

- Electrical connection via grey connection cable 3 m

**Accessories:**

- Suspensions such as tubular pendants or single wire suspensions to be ordered separately.



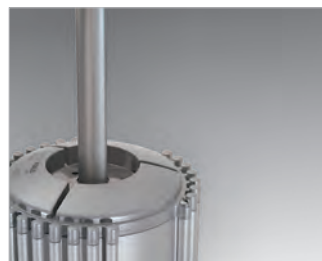
COHS IP20  
1x TC-TEL 57 W  
η<sub>LS</sub> 82%  
direct/indirect 100/0%  
UGR lat./long. 16,9/16,9  
VDU 65° < 1000cd/m²



Standard chain hook is included in the scope of delivery.



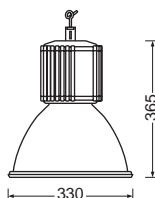
Wire suspension kits SA-KL + SAB-D must be ordered separately.



Pendant tube RP 16/300 must be ordered separately.

**Dimensions**

Type	Versions	LxBxH/DxH
COHS IP20	TC-TEL 1x26/32/42W	330 x 365
	TC-TEL 1x57W	330 x 365



**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Reflector, prismatic, semi-translucent vaporised direct wide distribution</i>							
cooky-COHS IP20	TC-TEL 1x26/32/42W GX24-q3-q4	46	aen	ECG	330 x 365	3740 1424 110	2,60
	TC-TEL 1x57W GX24q-5	62	aen	ECG	330 x 365	3740 1574 110	2,70

**Accessories**

Type	Colour	Material	Details	Item number	kg
<i>Mounting</i>					
Suspension bracket	me	St	for cooky, heip	9591 1820 100	1 0,02
Single wire suspension	vw	Mix	Canopy D=123mm, rope D=1mm, L=2200mm for cooky, heip	9510 0200 101	1 0,11
Tubular pendant suspension	wa	St+mix	Canopy D=123mm, pipe D=18mm, L=300mm for cooky	3740 0300 100	1 1,00











# alvia



## alvia pendant luminaire – weightless light with smart lighting technology

Aesthetic weightlessness, designed by BUSSE Design+Engineering GmbH in combination with an excellent lighting technology and top values are what make the alvia pendant luminaire unique. With wireless sensors and EnOcean technology, once again the limits of what is possible have been shifted in the area of connection convenience. With sensors and controls, you use minimal infrastructure for efficiency gains and convenience based on consumers' needs. The technical specifications of the luminaire practically speak a language of their own: Suitable for VDU workstations, anti-glare shielded according to current standard DIN-EN 12464-1. Its light performance makes it very easy to illuminate even dual workstations with only one luminaire. LED modules on the top of the luminaire provide an attractive lighting of the ceiling which also can be controlled separately within the light management. Room heights are emphasised impressively. All in all, a unique light which seems to defy gravity.



### Type overview

- ▶ ALIMPR Diffuser, micro-prismatic direct/indirect distribution with edge brightening

# alvia LED

## Suspended luminaire



Make life easy for yourself. These wall and hand-held transmitters are based on the wireless technology of EnOcean technology. The wireless Easyclick wall transmitters are batteryless and are only glued on. Therefore, re-positioning them will be no problem! Or you can use the advantages of hand-held transmitters with the remote control by alvia. You decide which solution is the most convenient for you.



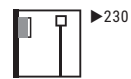


- New degrees of freedom in the planning due to smart lighting technology
- Versions for Human Centric Lighting (HCL) available
- Dimming separately for direct and indirect light
- Extremely flat and weightless form - designed by Busse Design
- Design integrated driver

## LED design with weightless aesthetic



The dynamic lines and an almost weightless and floating impression are greatly enhanced by the housing sideline, which is less than an inch high. That is just less than the diameter of a 1 Euro coin. The iced foil makes the alvia ALIMP LED even lighter. Impressive light accents are created here on the alvia ALIMPR LED by the additional structured background lighting.



LED A+ 8000 CE IP 20

**Mounting:**

- Suspended

**Housing:**

- Extruded aluminium profile, natural anodised, visible installation height 23 mm; rounded natural anodised aluminium end faces

**Lighting technology ALIMPR:**

- Diffuser, micro-prismatic; PMMA plastic
- Lighting characteristic direct/indirect distribution suited for VDU workstations,  $65^\circ < 3000 \text{ cd/m}^2$

**Lamp:**

- LED 50000h L80/B10
- Direct CRI  $\geq 80$  / 4000K + indirect CRI  $\geq 80$  / 4000K or Direct CRI  $\geq 80$  / 3000K + indirect CRI  $\geq 80$  / 3000K

**Lamp tunable white version**

- LED 50000h L80/B10
- CRI  $\geq 80$  / 3000K-6000K continuously adjustable

**Switching:**

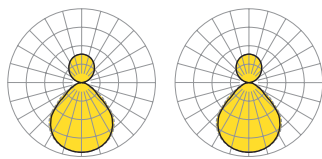
- Various switching modes available
- The number of control units varies according to the version
- Electronic driver
- 230V 50Hz

**Miscellaneous:**

- Y wire-rope suspension with translucent connection cable and ceiling canopy included in the scope of delivery.

**Accessories:**

- Remote controls and wall switches must be ordered separately.
- Suitable controls for tunable white technology on request from dali@regiolux.de



<b>ALIMPR/1400 LED</b> 9400 lm 840/840	<b>ALIMPR/1400 LED</b> 7900 lm 830/830
---	---

$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	133	lm/W	127
direct/indirect	67/33%	direct/indirect	67/33%
UGR lat./long.	16,0/16,7	UGR lat./long.	15,4/16,1
VDU	$65^\circ < 3000 \text{ cd/m}^2$	VDU	$65^\circ < 3000 \text{ cd/m}^2$



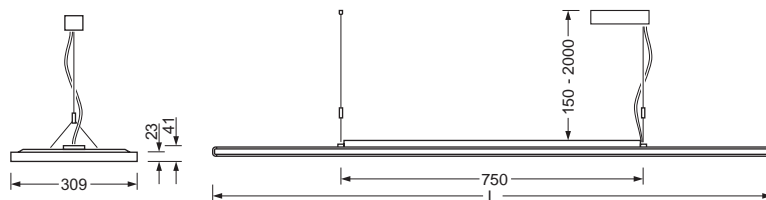
The long side of the ALIMPR housing conveys a feeling of weightlessness due to the frosted film with the structured backlighting.



Unusual lighting effects put alvia in the spotlight

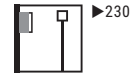
**Dimensions**

Type	Versions	LxBxH/DxH	A1	P min/max
ALI./1100	LED	1122 x 309 x 41	750	150 - 2000 mm
ALI./1400	LED	1394 x 309 x 41	750	150 - 2000 mm



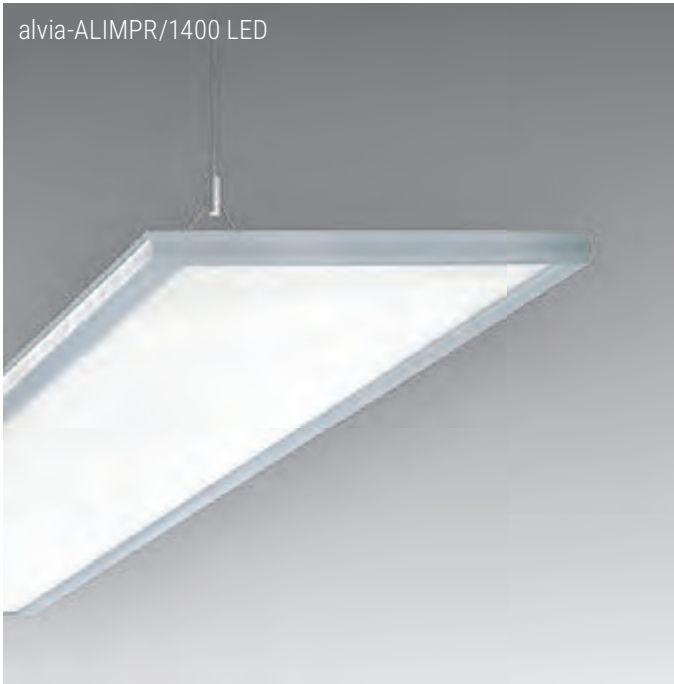


▶74



▶230

NEW REGIOLUX 25



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, micro-prismatic direct/indirect distribution with edge brightening</i>							
alvia-ALIMPR/1100	LED 6800lm 830-860	67	aen	DALI DT8 <sup>1)</sup>	1122 x 309 x 41	4217 5706 970	5,00
alvia-ALIMPR/1400	LED 7900lm 830/830	62	aen	DALI	1394 x 309 x 41	4216 2516 670	5,40
				dim touch	1394 x 309 x 41	4216 2516 570	5,40
				DALI wireless	1394 x 309 x 41	4216 2516 870	5,40
				M5S5 DALI	1424 x 309 x 41	4216 2518 170	5,55
	LED 9400lm 840/840	70	aen	DALI	1394 x 309 x 41	4216 1416 670	5,40
				dim touch	1394 x 309 x 41	4216 1416 570	5,40
				DALI wireless	1394 x 309 x 41	4216 1416 870	5,40
				M5S5 DALI	1424 x 309 x 41	4216 1418 170	5,55

<sup>1)</sup> Luminaire with tunable white technology suitable for Human Centric Lighting (HCL).

## Accessories

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Light Control	LC-OM MASTER REMOTE PC KIT		Remote control for commissioning the DALIeco (M5S5) light control system	8450 1041 200	1 0,11
	LC-OM USER REMOTE		Remote control for the operation of the DALIeco (M5S5) light control system	8450 1042 100	1 0,11
	LC-PE EnOcean MFB4K sw	Polymer	EnOcean mini handheld transmitter, 4-channel (wireless)	8450 7007 100	1 0,08
LC-PE EnOcean T2K	ws	Polymer	EnOcean wall transmitter, 2 channels (wireless)	8450 7005 100	1 0,08
LC-PE EnOcean T4K	ws	Polymer	EnOcean wall transmitter, 4 channel (wireless)	8450 7006 100	1 0,06

# Wireless Signal

## EnOcean control devices

### LC-PE EnOcean T2K / T4K



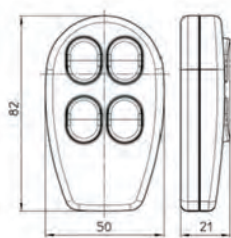
EnOcean wall transmitter, 2 channel / 4 channel

For individual mounting, rocker switch with neutral middle position, without printing, universally useable due to the compact design, battery-free and maintenance-free, pure white.

Additionally, a receiver for the operation of the control is required. Matching for alvia-ALIMPR LED ED DALI wireless or corresponding EnOcean wireless modifications of luminaires.

Type	LxBxH/DxH	Item number		
LC-PE EnOcean T2K	61 x 61 x 15	8450 7005 100	1	0,08
LC-PE EnOcean T4K	61 x 61 x 15	8450 7006 100	1	0,06

### LC-PE EnOcean MFB4K



EnOcean mini handheld transmitter, 4 channel

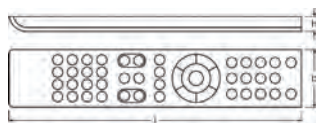
The mini handheld transmitter is suitable for switching and dimming lighting. It can be switched without batteries and from any location. The small and ergonomic mini handheld transmitter in a closed housing is designed as remote control and has 4 buttons. Colour of the housing: black; colour of the buttons: grey.

Additionally, a receiver for the operation of the control is required. Matching for alvia-ALIMPR LED ED DALI wireless or the corresponding EnOcean wireless modifications of luminaires.

Type	LxBxH/DxH	Item number		
LC-PE EnOcean MFB4K	82 x 50 x 21	8450 7007 100	1	0,08

# DALI-Signal Remote control DALIeco (M5S5)

### LC-OM MASTER REMOTE PC KIT



Remote control for the commissioning of the DALIeco light control system

Infrared remote control for controlling LC-OM DALIeco; individual buttons for function mode selection, setting the run-on and standby times, standby level, setting the offset between channels, channel value setting, automatic/manual setting of the control setpoint value, centralised or sensor-based activation and/or deactivation of light measurement, centralised or sensor-based activation and/or deactivation of presence detection, activation of 100 hours burn-in function; integrated LED for displaying the programming mode and signal transmission; includes USB cable and software.

Type	LxBxH/DxH	Item number		
LC-OM MASTER REMOTE PC KIT	230 x 45 x 13	8450 1041 200	1	0,11

### LC-OM USER REMOTE



Remote control for the operation of the DALIeco light control system

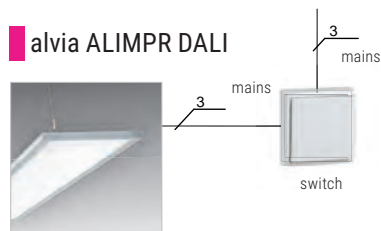
Infrared remote control for the control of LC-OM DALIeco; retrieve and store of 4 light scenes; temporal deactivation of the presence detection (holiday function); reactivation of the automatic light control function after manual overriding via the resume function; dimming and switching of two light groups, central switching of both groups; adaptable IR coding for the independent operation of up to 15 systems.

Type	LxBxH/DxH	Item number		
LC-OM USER REMOTE	230 x 33 x 10	8450 1042 100	1	0,11

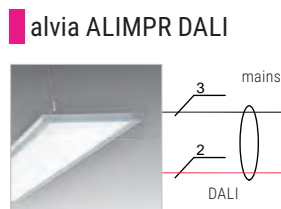




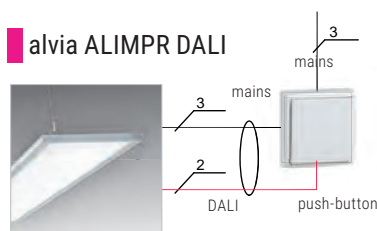
# Application examples



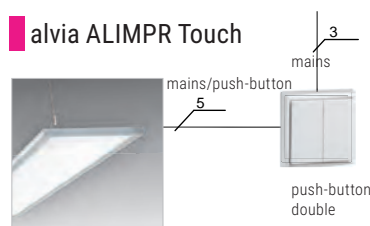
- On / Off -  
Direct and indirect light  
is switched together.



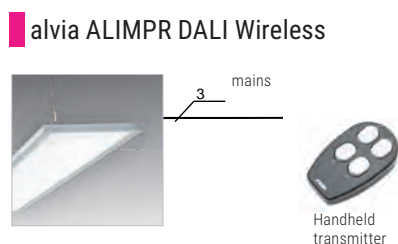
- On / Off / Dimming -  
Direct and indirect light can  
be controlled together or  
separately in addressing  
mode.



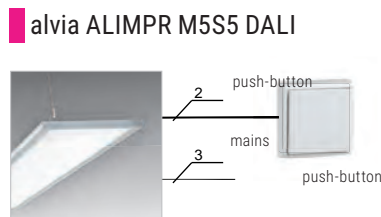
- On / Off / Button dimming -  
Direct and indirect light  
is controlled together.



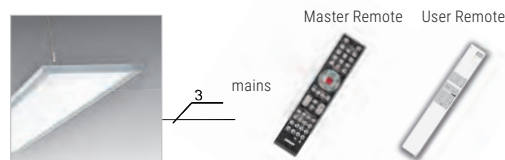
- On / Off / Button dimming -  
Direct and indirect light  
is controlled separately.



- On / Off / Button dimming -  
Direct and indirect light  
is controlled separately.



- On / Off / Button dimming /  
Daylight control / Motion and  
presence detection / Remote  
control -  
Direct and indirect light can  
be controlled separately (factory  
setting) or together.







# visula



## visula suspended luminaires – Design concept for high-quality office lighting

Regiolux, in partnership with Busse Design+Engineering GmbH, has developed the „visula LED“ design luminaire for modern office environments. This innovative luminaire combines two highly-efficient lighting technologies and guarantees a very homogenous light quality without annoying light points. The direct/indirect lighting recommended for offices is provided by suspended luminaires through LED edge lighting. visula helps create a pleasant office environment. With a scaled-back design and slim-line construction height (3 cm), all the components have already been integrated in the luminaire.

visula also shows its characteristic versatility when adjustments are made to project requirements. It comes in two different lengths and light technologies but this can be customised, as can the light colour. The indirect light proportion can also be adjusted to needs as required. Alongside its high-quality design, visula also gains points with a wealth of application benefits.

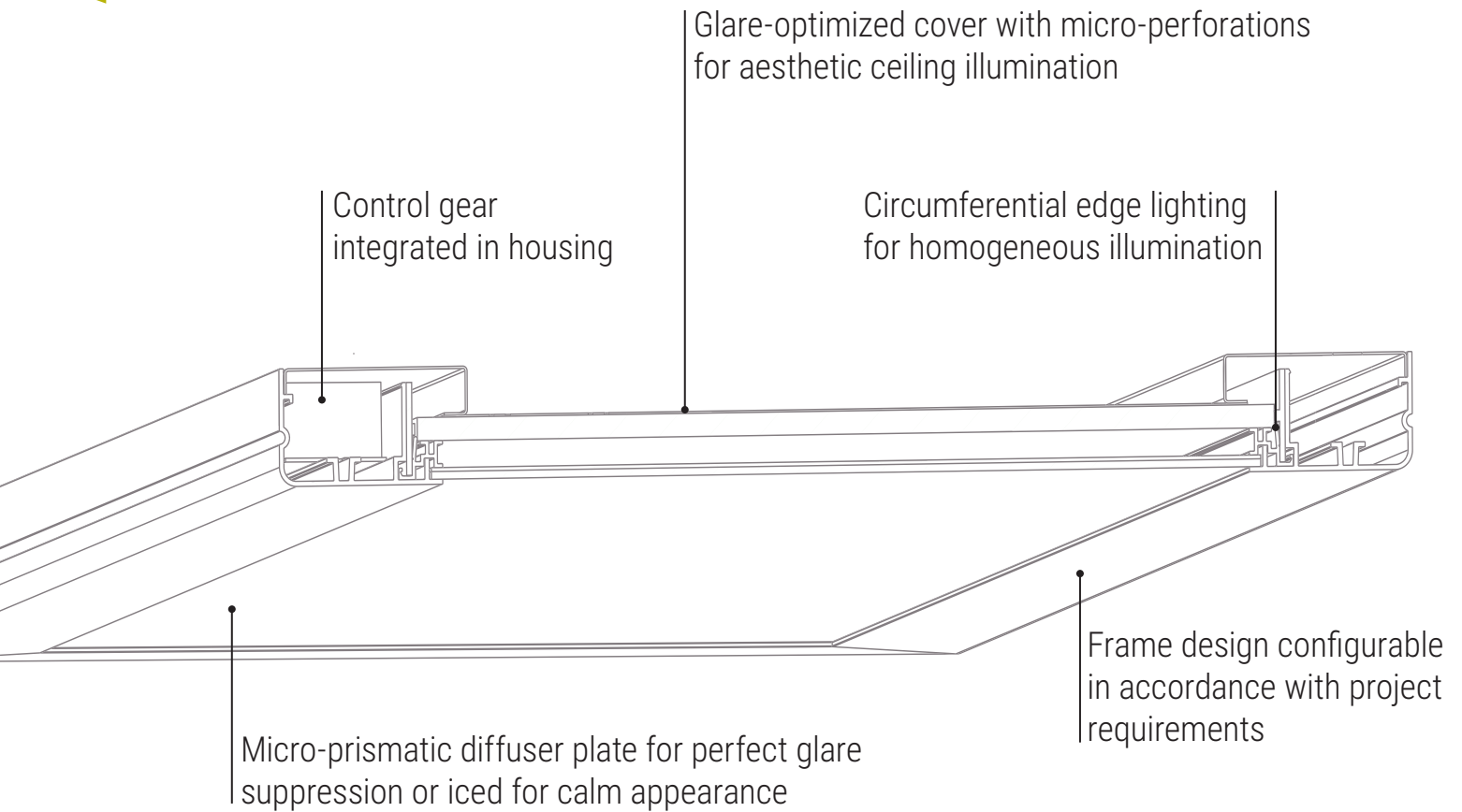


### Type overview

- ▶ VSHIG Diffuser, frosted direct/indirect distribution  
Homogeneous light output through LED edge light injection
- ▶ VSHIMP Diffuser, micro-prismatic direct/indirect distribution  
Homogeneous light output through LED edge light injection

# visula LED

## Suspended luminaire




Edge feed enables low installation height





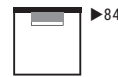
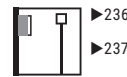


Life service

 50.000h  
L80/B10

## Design concept for high-quality office lighting

- LED suspended luminaire direct/indirect distribution
- Top marks for luminous efficacy and efficiency
- Also available in tunable white technology for Human Centric Lighting (HCL)
- Ultra-flat shape
- Homogeneous light output through LED edge light injection
- The indirect proportion can be adjusted to needs as required



LED A+ A 3000 CE IP 20

**Mounting:**

- Suspended

**Housing:**

- Natural anodised aluminium frame, visible installation height 30 mm

**Lighting technology VSHIG:**

- Diffuser, frosted; PMMA plastic
- Lighting characteristic direct/indirect distribution

**Lighting technology VSHIMP:**

- Diffuser, micro-prismatic; PMMA plastic
- Lighting characteristic direct/indirect distribution suited for VDU workstations, 65° < 3000 cd/m<sup>2</sup>

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Lamp tunable white version**

- LED 50000h L80/B10
- CRI ≥ 80 / 3000K-6000K continuously adjustable

**Switching:**

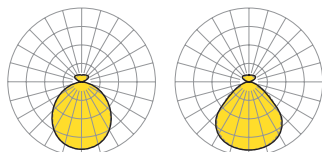
- The number of control units varies according to the version
- Electronic driver
- 230V 50Hz

**Miscellaneous:**

- Y-wire suspension with translucent connection cable and ceiling canopy included in the scope of delivery.

**Accessories:**

- Remote controls for commissioning and/or operation of master luminaires M5S5 must be ordered separately.
- Suitable controls for tunable white technology on request from dali@regiolux.de



**VSHIG/1200 LED**  
4700 lm 840

**VSHIMP/1200 LED**  
4700 lm 840

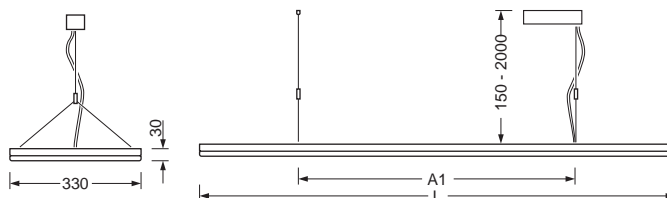
$\eta_{LE}$	100%	$\eta_{LE}$	100%
lm/W	103	lm/W	103
direct/indirect	84/16%	direct/indirect	84/16%
UGR lat./long.	20,0/19,9	UGR lat./long.	17,9/18,1
		VDU	65° < 3000cd/m <sup>2</sup>



Diffuser, micro-prismatic

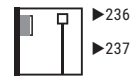
## Dimensions

Type	Versions	LxBxH/DxH	A1	P min/max
VSHI./1200	LED	1199 x 330 x 30	700	160 - 2000 mm
VSHI./1500	LED	1480 x 330 x 30	863	160 - 2000 mm



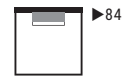


▶74



▶236

▶237



▶84



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, frosted direct/indirect distribution homogeneous light output through LED edge light injection</i>							
visula-VSHIG/1200	LED 4700lm 840	45	aen	ED	1199 x 330 x 30	4322 1014 115	6,30
				DALI	1199 x 330 x 30	4322 1016 615	6,40
	LED 3800lm 830-860	58	aen	DALI DT8 <sup>1)</sup>	1199 x 330 x 30	4322 4016 915	7,60
visula-VSHIG/1500	LED 6000lm 840	56	aen	ED	1480 x 330 x 30	4325 1024 115	7,80
				DALI	1480 x 330 x 30	4325 1026 615	7,90
	LED 4800lm 830-860	71	aen	DALI DT8 <sup>1)</sup>	1480 x 330 x 30	4325 4026 915	9,10
<i>Diffuser, micro-prismatic direct/indirect distribution homogeneous light output through LED edge light injection</i>							
visula-VSHIMP/1200	LED 4700lm 840	45	aen	ED	1199 x 330 x 30	4322 1014 175	6,30
				DALI	1199 x 330 x 30	4322 1016 675	6,40
	LED 3800lm 830-860	58	aen	DALI DT8 <sup>1)</sup>	1199 x 330 x 30	4322 4016 975	7,60
visula-VSHIMP/1500	LED 6000lm 840	56	aen	ED	1480 x 330 x 30	4325 1024 175	7,80
				DALI	1480 x 330 x 30	4325 1026 675	7,90
				M5S5 DALI	1480 x 330 x 30	4325 1028 175	7,90
	LED 4800lm 830-860	71	aen	DALI DT8 <sup>1)</sup>	1480 x 330 x 30	4325 4026 975	9,10

<sup>1)</sup> Luminaire with tunable white technology suitable for Human Centric Lighting (HCL).

## Accessories

Type	Details	Item number	kg
<i>Electrical technology</i>			
Light Control	LC-OM MASTER REMOTE PC KIT	Remote control for commissioning the DALIeco (M5S5) light control system	8450 1041 200
	LC-OM USER REMOTE	Remote control for the operation of the DALIeco (M5S5) light control system	8450 1042 100





# peanut



## peanut - transparent lightness

With peanut, light becomes an element for design. Whatever objects you are planning - offices, school or lecture rooms, hospitals or shops - the whole range of lighting tasks can be solved with just one luminaire family: peanut. All peanut variations have one feature in common: a well-shaped polycarbonate housing with patented labyrinth profile and fastening clips made of V2A stainless steel. The all-round illuminated housing assures an indirect light component for illuminating the ceiling area and the closed and easy-to-clean surface an optimal luminaire maintenance factor. The complete lighting technology is entirely integrated within the closed housing, giving protection against soiling. We are also able to create a wide range of further variations, including optical and switching variations on request.



## Type overview

- ▶ corridor-HGI Diffuser, matt direct/indirect distribution
- ▶ office-HZI Diffuser, clear, with parabolic micro-cell louvre direct/indirect distribution
- ▶ school-HLR Diffuser, clear, with cross blade louvre direct distribution
- ▶ industry-H Diffuser, clear direct/indirect distribution
- ▶ board-HW Diffuser, translucent, with highly specular wall washer direct asymmetrical distribution with brightening in front of the wall
- ▶ gallery-HWF Diffuser, translucent, with highly specular wall washer direct asymmetrical distribution

# peanut LED



LED A+ IP 55

### Mounting:

- Suspended

### Housing:

- Polycarbonate, injection moulded, transparent

### Lighting technology corridor-HGI:

- Diffuser, matt; PC plastic
- Lighting characteristic direct/indirect distribution

### Lamp:

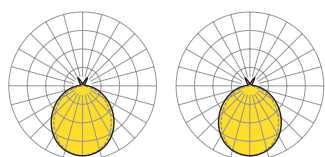
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

### Switching:

- 1 Control gear
- Electronic driver
- 230V 50Hz

### Miscellaneous:

- Y wire-rope suspension with translucent connection cable and ceiling baldachin included in the scope of delivery.



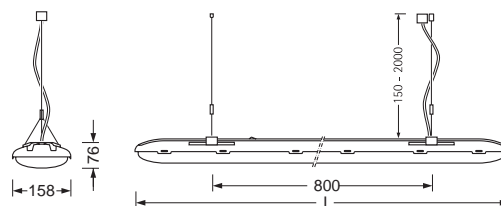
corridor-HGI/1200  
LED 3800lm 840

corridor-HGI/1500  
LED 4700lm 840

	100%	100%	100%
$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	128	lm/W	128
direct/indirect	90/10%	direct/indirect	90/10%
UGR lat./long.	20,1/19,3	UGR lat./long.	20,1/19,4

### Dimensions

Type	Versions	LxBxH/DxH	A1	P min/max
corridor-H./1200	LED	1260 x 158 x 76	800	150 - 2000 mm
corridor-H./1500	LED	1563 x 158 x 76	800	150 - 2000 mm



### Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, matt direct/indirect distribution</i>							
peanut corridor-HGI/1200	LED 3800lm 840	29	tz	ED	1260 x 158 x 76	5262 0044 180	3,08
				DALI	1260 x 158 x 76	5262 0046 680	3,08
peanut corridor-HGI/1500	LED 4700lm 840	37	tz	ED	1563 x 158 x 76	5262 0034 180	3,68
				DALI	1563 x 158 x 76	5262 0036 680	3,68





# peanut T5



**Mounting:**

- Suspended

**Housing:**

- Polycarbonate, injection moulded, transparent

**Lighting technology corridor-HGI:**

- Diffuser, matt; PC plastic
- Lighting characteristic direct/indirect distribution

**Lighting technology office-HZI:**

- Diffuser, clear, with parabolic micro-cell louvre; PC plastic reflectivity enhanced
- Lighting characteristic direct/indirect distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology school-HLR:**

- Diffuser, clear, with cross blade louvre; PC plastic
- Lighting characteristic direct distribution

**Lamp:**

- For fitting with lamp(s) T5

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Miscellaneous:**

- Y wire-rope suspension with translucent connection cable and ceiling baldachin included in the scope of delivery.



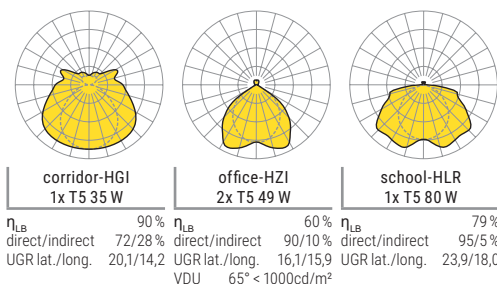
Tolerance adjustment is possible by sliding the fixing clips  $\pm 40 \text{ mm}$ .



Due to the material-free labyrinth seal the housing is transparent even around the joint.

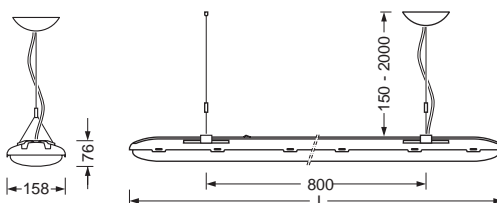


The diffuser is securely closed and opened at the intended points without clips.




## Dimensions

Type	Versions	LxBxH/DxH	A1	P min/max
corridor-H.	T5 1x28, 54 W	1260 x 158 x 76	800	150 - 2000 mm
	T5 1x35, 49, 80 W	1563 x 158 x 76	800	150 - 2000 mm
	T5 2x28, 54 W	1260 x 158 x 76	800	150 - 2000 mm
	T5 2x35, 49, 80 W	1563 x 158 x 76	800	150 - 2000 mm
office-H.	T5 2x35, 49, 80 W	1563 x 158 x 76	800	150 - 2000 mm
school-H.	T5 1x35, 49, 80 W	1563 x 158 x 76	800	150 - 2000 mm



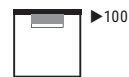
**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, matt direct/indirect distribution</i>							
peanut corridor-HGI	T5 1x28W	30	tz	ECG	1260 x 158 x 76	5262 1284 180	2,48
	T5 1x35W	38	tz	ECG	1563 x 158 x 76	5262 1354 180	3,28
	T5 1x49W	52	tz	ECG	1563 x 158 x 76	5262 1494 180	3,28
	T5 2x28W	60	tz	ECG	1260 x 158 x 76	5262 2284 180	2,48
	T5 2x35W	76	tz	ECG	1563 x 158 x 76	5262 2354 180	3,28
	T5 2x49W	104	tz	ECG	1563 x 158 x 76	5262 2494 180	3,28
<i>Diffuser, clear, with cross blade louvre direct distribution</i>							
peanut school-HLR	T5 1x35W	38	tp	ECG	1563 x 158 x 76	5262 1354 110	4,38
	T5 1x49W	52	tp	ECG	1563 x 158 x 76	5262 1494 110	4,38
	T5 1x80W	85	tp	ECG	1563 x 158 x 76	5262 1804 110	4,38
<i>Diffuser, clear, with parabolic micro-cell louvre direct/indirect distribution</i>							
peanut office-HZI	T5 2x35W	76	tp	ECG	1563 x 158 x 76	5262 2354 170	3,94
	T5 2x49W	104	tp	ECG	1563 x 158 x 76	5262 2494 170	3,94





# peanut T5



**Mounting:**

- Suspended

**Housing:**

- Polycarbonate, injection moulded, transparent

**Lighting technology industry-H:**

- Diffuser, clear; PC plastic
- Lighting characteristic direct/indirect distribution

**Lighting technology board-HW:**

- Diffuser, clear, with highly specular wall washer; PC plastic
- Lighting characteristic direct asymmetrical distribution

**Lighting technology gallery-HWF:**

- Diffuser, clear, with highly specular wall washer; PC plastic
- Lighting characteristic direct asymmetrical distribution

**Lamp:**

- For fitting with lamp(s) T5

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Miscellaneous:**

- Y wire-rope suspension with translucent connection cable and ceiling baldachin included in the scope of delivery.



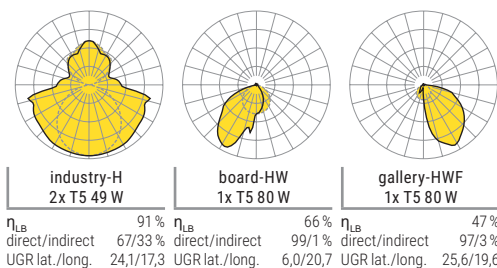
Tolerance adjustment is possible by sliding the fixing clips  $\pm 40$  mm.



Due to the material-free labyrinth seal the housing is transparent even around the joint.

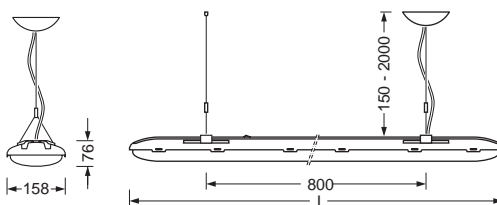


The diffuser is securely closed and opened at the intended points without clips.



## Dimensions

Type	Versions	LxBxH/DxH	A1	P min/max
board-H.	T5 1x35, 49, 80 W	1563 x 158 x 76	800	150 - 2000 mm
gallery-H.	T5 1x35, 49, 80 W	1563 x 158 x 76	800	150 - 2000 mm
industry-H.	T5 1x28, 54 W	1260 x 158 x 76	800	150 - 2000 mm
	T5 1x35, 49, 80 W	1563 x 158 x 76	800	150 - 2000 mm
	T5 2x28, 54 W	1260 x 158 x 76	800	150 - 2000 mm
	T5 2x35, 49, 80 W	1563 x 158 x 76	800	150 - 2000 mm






▶74



▶100

**Products**

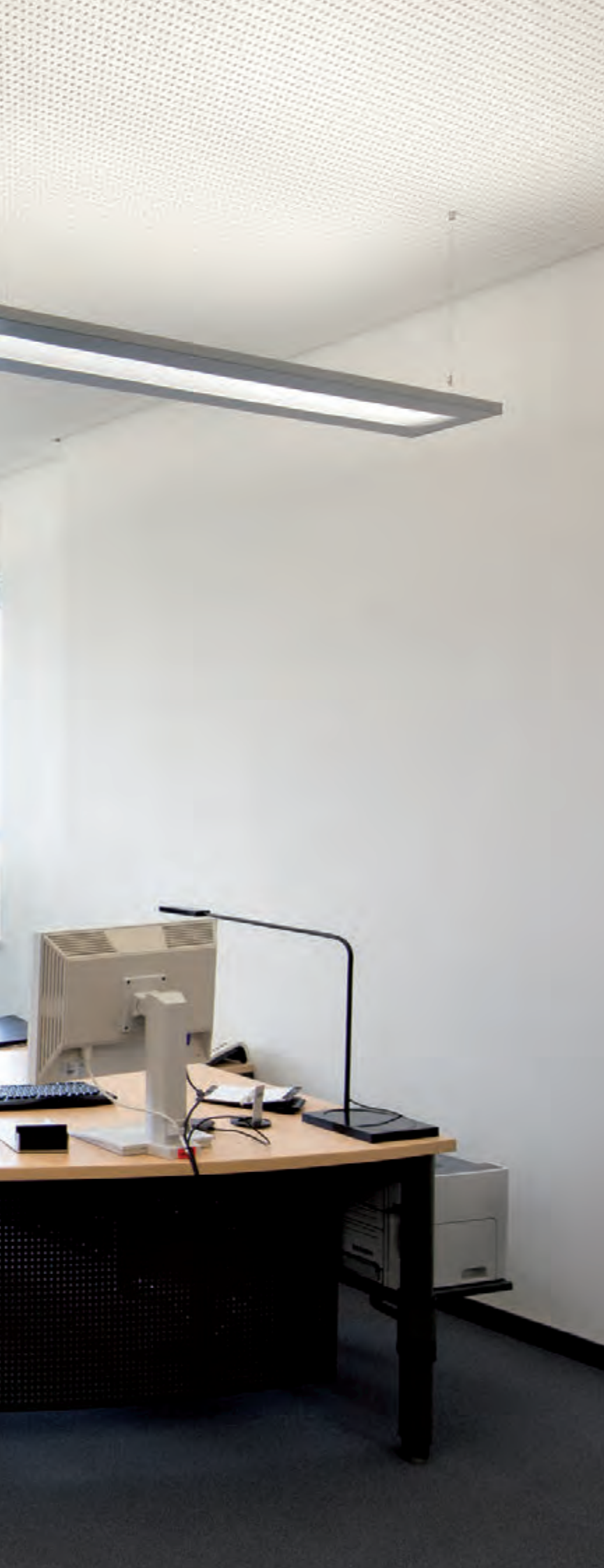
Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, clear direct/indirect distribution</i>							
peanut industry-H	T5 1x28W	30	tp	ECG	1260 x 158 x 76	5262 1284 100	2,48
	T5 1x35W	38	tp	ECG	1563 x 158 x 76	5262 1354 100	3,28
	T5 1x49W	52	tp	ECG	1563 x 158 x 76	5262 1494 100	3,28
	T5 2x28W	60	tp	ECG	1260 x 158 x 76	5262 2284 100	2,48
	T5 2x35W	76	tp	ECG	1563 x 158 x 76	5262 2354 100	3,28
	T5 2x49W	104	tp	ECG	1563 x 158 x 76	5262 2494 100	3,28
<i>Diffuser, clear, with highly specular wall washer direct asymmetrical distribution</i>							
peanut gallery-HWF	T5 1x49W	52	tp	ECG	1563 x 158 x 76	5262 1494 140	4,16
	T5 1x80W	85	tp	ECG	1563 x 158 x 76	5262 1804 140	4,16
<i>Diffuser, clear, with highly specular wall washer direct asymmetrical distribution with brightening in front of the wall</i>							
peanut board-HW	T5 1x35W	38	tp	ECG	1563 x 158 x 76	5262 1354 190	3,78
	T5 1x49W	52	tp	ECG	1563 x 158 x 76	5262 1494 190	3,53
	T5 1x80W	85	tp	ECG	1563 x 158 x 76	5262 1804 190	3,53











# stail



## stail – technical requirement and minimisation

Barely visible with a construction height of only 26 mm, an integral reflector with slot louvre and prismatic diffuser or micro louvre with low-section cross blades - these are the impressive features of this slim-line beauty. With its linear, minimal design, stail blends harmoniously into the architecture and offers a wide range of differing light characteristics, from direct via direct/indirect to primarily indirect distribution.



## Type overview

- ▶ SHPI Diffuser, micro-prismatic direct/indirect distribution
- ▶ SHLPI Diffuser, micro-prismatic direct/indirect distribution prepared for light run mounting
- ▶ SHXI Micro-parabolic louvre, silky matt direct/indirect distribution
- ▶ SHLXI Micro-parabolic louvre, silky matt direct/indirect distribution prepared for light run mounting
- ▶ SHDI Micro-parabolic louvre, highly specular direct/indirect distribution

# stail LED



LED A+ 3000 CE IP 20

**Mounting:**

- Suspended

**Housing:**

- Sheet steel housing, visible construction height 26 mm

**Lighting technology SHPI, SHLPI:**

- Diffuser, micro-prismatic; PMMA plastic
- Lighting characteristic direct/indirect distribution suited for VDU workstations,  $65^\circ < 3000 \text{ cd/m}^2$

**Lamp:**

- LED 50000h L80/B10
- CRI  $\geq 80$  / 4000K

**Switching:**

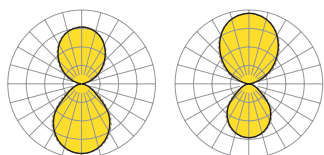
- 1 Control gear
- Electronic driver
- 230V 50Hz

**Miscellaneous:**

- Electrical connection via translucent connection cable and/or for SHL types... via plug-in terminal

**Accessories:**

- The Y-wire suspensions SAY-KS/SAY-KL for the individual luminaires must be ordered separately. For light run types SHL... the Y-wire suspensions with electrical cable SAYE-KL and additionally per luminaire joint one luminaire connector STAIL-SV as well as one suspension SAY-KS must be ordered separately. Remote controls for commissioning and/or operation of master luminaires M5S5 must be ordered separately.



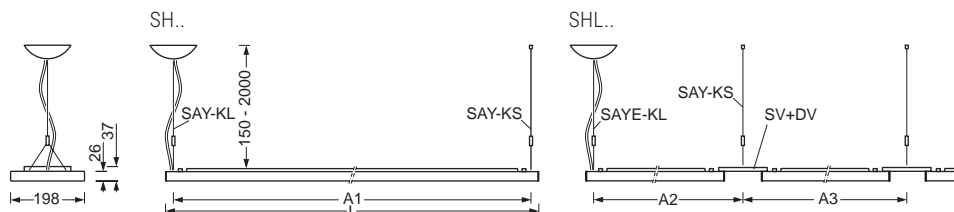
SHPI/1200-2 LED 4100 lm 840		SHPI/1500-2 LED 6700 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	114	lm/W	114
direct/indirect	51/49%	direct/indirect	40/60%
UGR lat./long.	14,9/15,4	UGR lat./long.	13,6/14,2
VDU	$65^\circ < 3000 \text{ cd/m}^2$	VDU	$65^\circ < 3000 \text{ cd/m}^2$



The stail-SHL luminaires can be combined to form light runs. Luminaire connector with suspension. Spacing between luminaires 100 mm.


## Dimensions

Type	Versions	LxBxH/DxH	A1	A2	A3	P min/max
SH./1200-2	LED	1240 x 198 x 37	1216	1279	1342	150 - 2000 mm
SH./1500-2	LED	1540 x 198 x 37	1516	1579	1642	150 - 2000 mm







## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, micro-prismatic direct/indirect distribution</i>							
stail-SHPI/1200-2	LED 4100lm 840	36	vw	ED	1240 x 198 x 37	6031 2024 190	4,51
				DALI	1240 x 198 x 37	6031 2026 690	4,63
				wa	1240 x 198 x 37	6031 2024 195	4,51
				DALI	1240 x 198 x 37	6031 2026 695	4,63
stail-SHPI/1500-2	LED 6700lm 840	58	vw	ED	1540 x 198 x 37	6031 4024 190	5,30
				DALI	1540 x 198 x 37	6031 4026 690	5,42
				M5S5 DALI	1540 x 198 x 37	6031 4028 190	5,49
				wa	1540 x 198 x 37	6031 4024 195	5,30
				DALI	1540 x 198 x 37	6031 4026 695	5,42
				M5S5 DALI	1540 x 198 x 37	6031 4028 195	5,49
<i>Diffuser, micro-prismatic direct/indirect distribution prepared for light run mounting</i>							
stail-SHLPI/1200-2	LED 4100lm 840	36	vw	ED	1240 x 198 x 37	6033 2024 190	4,51
				DALI	1240 x 198 x 37	6033 2026 690	4,63
				wa	1240 x 198 x 37	6033 2024 195	4,51
				DALI	1240 x 198 x 37	6033 2026 695	4,63
stail-SHLPI/1500-2	LED 6700lm 840	58	vw	ED	1540 x 198 x 37	6033 4024 190	5,30
				DALI	1540 x 198 x 37	6033 4026 690	5,42
				M5S5 DALI	1540 x 198 x 37	6033 4028 190	5,49
				wa	1540 x 198 x 37	6033 4024 195	5,30
				DALI	1540 x 198 x 37	6033 4026 695	5,42
				M5S5 DALI	1540 x 198 x 37	6033 4028 195	5,49

## Accessories

Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>						
Through-wiring cable	stail -DV -3G 710	ws	H05VV-F	3x0.75 mm <sup>2</sup> for stail SHL.	6033 9003 100	1 0,21
	stail -DV -5G 800	ws	H05VV-F	5x0.75 mm <sup>2</sup> for stail SHL.	6033 9005 100	1 0,22
	stail -DV -9G 890	ws	H05VV-F	9x0.75 mm <sup>2</sup> for stail SHL.	6033 9009 100	1 0,23
Light Control	LC-OM MASTER REMOTE PC KIT			Remote control for commissioning the DALIeco (M5S5) light control system	8450 1041 200	1 0,11
	LC-OM USER REMOTE			Remote control for the operation of the DALIeco (M5S5) light control system	8450 1042 100	1 0,11
<i>Mounting</i>						
Y-wire suspension	SAY -KL 190	vw	Mix	Canopy D = 123mm, wire D = 1mm, L = 2200mm for stail SHXI, SHPI LED; stail T5	9510 1200 101	1 0,12
	SAY -KS 190	me	Mix	Wire D = 1mm, L = 2200mm for stail	9511 1200 101	1 0,06
	SAYE -KL 190 3x0,75	tp	Mix	Canopy D = 123mm, wire D=1mm, L=2200mm, 3x0.75mm <sup>2</sup> for stail SHL.. LED	9510 1237 131	1 0,25
	SAYE -KL 190 5x0,75	tp	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 5x0.75mm <sup>2</sup> for stail SHL.. LED	9510 1257 131	1 0,34
	SAYE -KL 190 9x0,75	tp	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 9x0.75mm <sup>2</sup> for master luminaires M5S5, stail SHL.. LED	9510 1297 131	1 0,34
<i>Structure</i>						
Luminaire connector	stail -SV 100	vw	St	for stail	6030 1000 100	1 0,18
	stail -SV 100	wa	St	for stail	6030 1000 105	1 1,00



# stail LED



LED A+ 1000 CE IP 20

**Mounting:**

- Suspended

**Housing:**

- Sheet steel housing, visible construction height 26 mm

**Lighting technology SHXI, SHLXI:**

- Micro-parabolic louvre, silky matt; aluminium MIRO-SILVER®
- Lighting characteristic direct/indirect distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lamp:**

- LED 50000h L80/B10
- CRI  $\geq 80$  / 4000K

**Switching:**

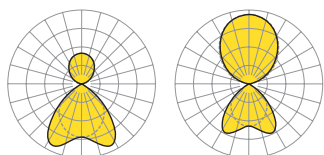
- 1 Control gear
- Electronic driver
- 230V 50Hz

**Miscellaneous:**

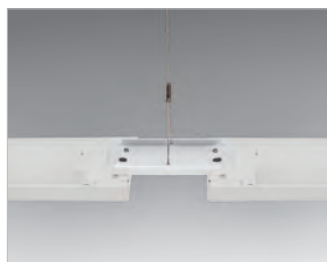
- Electrical connection via translucent connection cable and/or for SHL types... via plug-in terminal

**Accessories:**

- The Y-wire suspensions SAY-KS/SAY-KL for the individual luminaires must be ordered separately. For light run types SHL... the Y-wire suspensions with electrical cable SAYE-KL and additionally per luminaire joint one luminaire connector STAIL-SV as well as one suspension SAY-KS must be ordered separately. Remote controls for commissioning and/or operation of master luminaires M5S5 must be ordered separately.



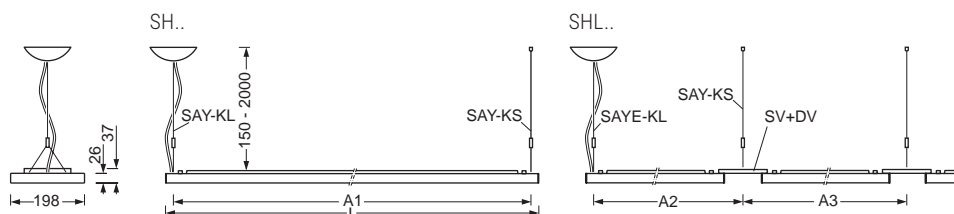
SHXI/1200-2 LED		SHXI/1500-2 LED	
5300 lm 840		6300 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	104	lm/W	111
direct/indirect	62/38%	direct/indirect	36/64%
UGR lat./long.	17,7/17,0	UGR lat./long.	13,1/12,3
VDU	$65^\circ < 1500 \text{ cd/m}^2$	VDU	$65^\circ < 1000 \text{ cd/m}^2$



The stail-SHL luminaires can be combined to form light runs. Luminaire connector with suspension. Spacing between luminaires 100 mm.

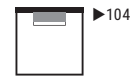
## Dimensions

Type	Versions	LxBxH/DxH	A1	A2	A3	P min/max
SH./1200-2	LED	1240 x 198 x 37	1216	1279	1342	150 - 2000 mm
SH./1500-2	LED	1540 x 198 x 37	1516	1579	1642	150 - 2000 mm






▶74



▶104



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number				
<i>Micro-parabolic louvre, silky matt direct/indirect distribution</i>										
stail-SHXI/1200-2	LED 5300lm 840	51	vw	ED	1240 x 198 x 37	6031 2024 160	4,11			
				DALI	1240 x 198 x 37	6031 2026 660	4,23			
				wa	ED	1240 x 198 x 37	6031 2024 165	4,11		
				DALI	1240 x 198 x 37	6031 2026 665	4,23			
stail-SHXI/1500-2	LED 6300lm 840	57	vw	ED	1540 x 198 x 37	6031 4024 160	4,81			
				DALI	1540 x 198 x 37	6031 4026 660	4,93			
				M5S5 DALI	1540 x 198 x 37	6031 4028 160	5,00			
				wa	ED	1540 x 198 x 37	6031 4024 165	4,81		
			DALI	1540 x 198 x 37	6031 4026 665	4,93				
			M5S5 DALI	1540 x 198 x 37	6031 4028 165	5,00				
			<i>Micro-parabolic louvre, silky matt direct/indirect distribution prepared for light run mounting</i>							
			stail-SHLXI/1200-2	LED 5300lm 840	51	vw	ED	1240 x 198 x 37	6033 2024 160	4,11
DALI	1240 x 198 x 37	6033 2026 660					4,23			
wa	ED	1240 x 198 x 37					6033 2024 165	4,11		
DALI	1240 x 198 x 37	6033 2026 665					4,23			
stail-SHLXI/1500-2	LED 6300lm 840	57	vw	ED	1540 x 198 x 37	6033 4024 160	4,81			
				DALI	1540 x 198 x 37	6033 4026 660	4,93			
				M5S5 DALI	1540 x 198 x 37	6033 4028 160	5,00			
				wa	ED	1540 x 198 x 37	6033 4024 165	4,81		
			DALI	1540 x 198 x 37	6033 4026 665	4,93				
			M5S5 DALI	1540 x 198 x 37	6033 4028 165	5,00				

## Accessories

Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>						
Through-wiring cable	stail -DV -3G 710	ws	H05VV-F	3x0.75 mm <sup>2</sup> for stail SHL.	6033 9003 100	1 0,21
	stail -DV -5G 800	ws	H05VV-F	5x0.75 mm <sup>2</sup> for stail SHL.	6033 9005 100	1 0,22
	stail -DV -9G 890	ws	H05VV-F	9x0.75 mm <sup>2</sup> for stail SHL.	6033 9009 100	1 0,23
Light Control	LC-OM MASTER REMOTE PC KIT			Remote control for commissioning the DALIeco (M5S5) light control system	8450 1041 200	1 0,11
	LC-OM USER REMOTE			Remote control for the operation of the DALIeco (M5S5) light control system	8450 1042 100	1 0,11
<i>Mounting</i>						
Y-wire suspension	SAY -KL 190	vw	Mix	Canopy D = 123mm, wire D = 1mm, L = 2200mm for stail SHXI, SHPI LED; stail T5	9510 1200 101	1 0,12
	SAY -KS 190	me	Mix	Wire D = 1mm, L = 2200mm for stail	9511 1200 101	1 0,06
	SAYE -KL 190 3x0,75	tp	Mix	Canopy D = 123mm, wire D=1mm, L=2200mm, 3x0.75mm <sup>2</sup> for stail SHL.. LED	9510 1237 131	1 0,25
	SAYE -KL 190 5x0,75	tp	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 5x0.75mm <sup>2</sup> for stail SHL.. LED	9510 1257 131	1 0,34
	SAYE -KL 190 9x0,75	tp	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 9x0.75mm <sup>2</sup> for master luminaires M5S5, stail SHL.. LED	9510 1297 131	1 0,34
<i>Structure</i>						
Luminaire connector	stail -SV 100	vw	St	for stail	6030 1000 100	1 0,18
	stail -SV 100	wa	St	for stail	6030 1000 105	1 1,00

# stail T5



**Mounting:**

- Suspended

**Housing:**

- Sheet steel housing, visible construction height 26 mm

**Lighting technology SHPI:**

- Diffuser, micro-prismatic; PMMA plastic
- Lighting characteristic direct/indirect distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology SHDI:**

- Micro-parabolic louvre, highly specular; aluminium MIRO-SILVER ®
- Lighting characteristic direct/indirect distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology SHXI:**

- Micro-parabolic louvre, silky matt; aluminium MIRO-SILVER ®
- Lighting characteristic direct/indirect distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lamp:**

- For fitting with lamp(s) T5

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Miscellaneous:**

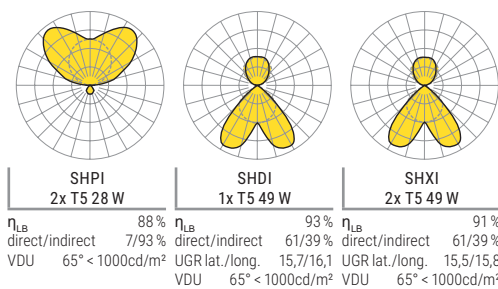
- Electrical connection via translucent connection cable

**Accessories:**

- For the suspensions, the Y-wire suspension kits SAY-KS / SAY-KL with 2000mm suspension height must be ordered separately. With light run mounting, additionally per luminaire-join one light run connector.



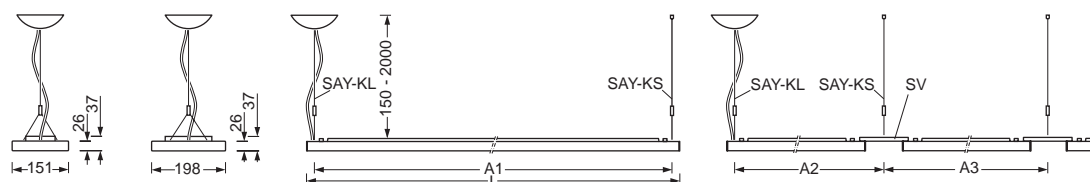
Luminaire connector with suspension. Spacing between luminaires 100 mm.



## Dimensions

Type	Versions	LxBxH/DxH	A1	A2	A3	P min/max
SH.	T5 1x28, 54 W	1240 x 198 x 37	1216	1279	1342	150 - 2000 mm
	T5 1x35, 49, 80 W	1540 x 198 x 37	1516	1579	1642	150 - 2000 mm
	T5 2x28, 54 W	1240 x 198 x 37	1216	1279	1342	150 - 2000 mm
	T5 2x35, 49, 80 W	1540 x 198 x 37	1516	1579	1642	150 - 2000 mm


SHDI/SHXI 1x...SHDI/SHXI 2x... + SHPI 1x... / 2x...








## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, micro-prismatic direct/indirect distribution</i>							
stail-SHPI	T5 1x28/54W	30	vw	ECG	1240 x 198 x 37	6030 1944 190	3,50
			wa	ECG	1240 x 198 x 37	6030 1944 195	3,50
	T5 1x35/49/80W	38	vw	ECG	1540 x 198 x 37	6030 1954 190	4,00
			wa	ECG	1540 x 198 x 37	6030 1954 195	4,00
	T5 2x28/54W	60	vw	ECG	1240 x 198 x 37	6030 2944 190	3,90
			116	wa	ECG	1240 x 198 x 37	6030 2944 195
T5 2x35/49W	76	vw	ECG	1540 x 198 x 37	6030 2964 190	4,00	
		wa	ECG	1540 x 198 x 37	6030 2964 195	4,00	
<i>Micro-parabolic louvre, highly specular direct/indirect distribution</i>							
stail-SHDI	T5 1x28/54W	58	vw	ECG	1240 x 151 x 37	6030 1944 170	3,50
			wa	ECG	1240 x 151 x 37	6030 1944 175	3,50
	T5 1x35/49/80W	52	vw	ECG	1540 x 151 x 37	6030 1954 170	4,00
			wa	ECG	1540 x 151 x 37	6030 1954 175	4,00
	T5 2x28/54W	116	vw	ECG	1240 x 198 x 37	6030 2944 170	3,90
			wa	ECG	1240 x 198 x 37	6030 2944 175	3,90
	T5 2x35/49W	104	vw	ECG	1540 x 198 x 37	6030 2964 170	4,40
			wa	ECG	1540 x 198 x 37	6030 2964 175	4,40
<i>Micro-parabolic louvre, silky matt direct/indirect distribution</i>							
stail-SHXI	T5 1x28/54W	58	vw	ECG	1240 x 151 x 37	6030 1944 160	3,50
			wa	ECG	1240 x 151 x 37	6030 1944 165	3,50
	T5 1x35/49/80W	52	vw	ECG	1540 x 151 x 37	6030 1954 160	4,00
			wa	ECG	1540 x 151 x 37	6030 1954 165	4,00
	T5 2x28/54W	116	vw	ECG	1240 x 198 x 37	6030 2944 160	3,90
			wa	ECG	1240 x 198 x 37	6030 2944 165	3,90
	T5 2x35/49W	104	vw	ECG	1540 x 198 x 37	6030 2964 160	4,40
			wa	ECG	1540 x 198 x 37	6030 2964 165	4,40

## Accessories

Type	Colour	Material	Details	Item number		
<i>Mounting</i>						
Y-wire suspension	SAY -KL 190	vw	Mix	Canopy D = 123mm, cable D = 1mm, L = 2200mm for stail SHXI, SHPI LED; stail T5	9510 1200 101	1 0,12
	SAY -KS 190	me	Mix	Wire D = 1mm, L = 2200mm for stail	9511 1200 101	1 0,06
<i>Structure</i>						
Luminaire connector	stail -SV 100	vw	St	for stail	6030 1000 100	1 0,18
	stail -SV 100	wa	St	for stail	6030 1000 105	1 1,00





## hokal – universal light run system

The world in which we live is founded upon fundamental forms of symmetry. The aesthetic quality of the hokal luminaire family depends upon the specification of a clear, concise design. And with an almost square cross-section, Regiolux has managed to capture the essence of stylish modernity and outstanding technical quality. The hokal luminaire family in the form of a light channel is, as expected, a universally designed luminaire concept. In terms of functionality you can plan with the wide-ranging spectrum that is typical of a Regiolux luminaire family. And applications are also accordingly widely based. Recessed luminaires equipped with either one or two lamps are available for cut-out ceilings and panel ceilings. Lighting design with surface-mounted and suspended versions, either with direct/indirect or purely direct light distribution can be implemented according to needs and with cost efficiency in mind, and an emergency light version is also available for safety lighting. Control components and sensors in master luminaires are just some of the possibilities for exploiting energy saving potential. Diverse optics help to achieve an optimal illuminated atmosphere, so that viewing comfort, visual performance and safety as evaluation criteria for lighting in various types of rooms always achieve top marks.



### Type overview

- ▶ HLHIG Diffuser, satined direct/indirect distribution
- ▶ HLHX Micro-parabolic louvre, silky matt direct distribution
- ▶ HLHG Diffuser, satined direct distribution
- ▶ HLHD Micro-parabolic louvre, highly specular direct distribution
- ▶ HLHID Micro-parabolic louvre, highly specular direct/indirect distribution
- ▶ HLHIX Micro-parabolic louvre, silky matt direct/indirect distribution



LED A+ A 1500 CE IP 20

**Mounting:**

- Suspended

**Housing:**

- Sheet steel housing

**Lighting technology HLHIG:**

- Diffuser, satined; PC plastic
- Lighting characteristic direct/indirect distribution

**Lighting technology HLHX:**

- Micro-parabolic louvre, silky matt MIRO-SILVER ®
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1500 cd/m²

**Lamp:**

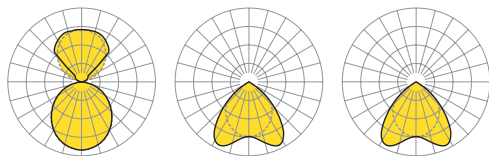
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

**Accessories:**

- End faces, connectors, through-wiring and Y-wire suspensions  
SAY-KS/SAYE-KL with 2000 mm suspension length to be ordered separately according to luminaire arrangements.



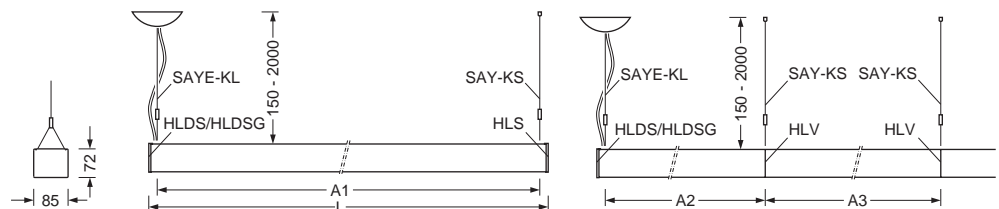
HLHIG/1200 LED 2700 lm 840		HLHX/1200 LED 3200 lm 840		HLHX/1500 LED 4000 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	122	lm/W	96	lm/W	96
direct/indirect	60/40%	direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	20,2/20,3	UGR lat./long.	20,7/20,0	UGR lat./long.	20,7/19,9
VDU	65° < 1500cd/m²	VDU	65° < 1500cd/m²	VDU	65° < 1500cd/m²

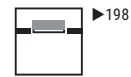


Luminaires are supplied with open ends. End faces and connectors must be ordered separately.

## Dimensions

Type	Versions	LxBxH/DxH	A1	A2	A3	P min/max
HLH./1200	LED	1176 x 85 x 72	1100	1138	1176	150 - 2000 mm
HLH./1500	LED	1476 x 85 x 72	1400	1438	1476	150 - 2000 mm





Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg	
<i>Diffuser, satined direct/indirect distribution</i>								
hokal-HLHIG/1200	LED 2700lm 840	22	vw	ED	1176 x 85 x 72	6051 1024 180	3,20	
				DALI	1176 x 85 x 72	6051 1026 680	3,20	
				sg	ED	1176 x 85 x 72	6051 1024 185	3,20
					DALI	1176 x 85 x 72	6051 1026 685	3,20
hokal-HLHIG/1500	LED 3500lm 840	30	vw	ED	1476 x 85 x 72	6051 3024 180	3,80	
				DALI	1476 x 85 x 72	6051 3026 680	3,80	
				sg	ED	1476 x 85 x 72	6051 3024 185	3,80
					DALI	1476 x 85 x 72	6051 3026 685	3,70
<i>Micro-parabolic louvre, silky matt direct distribution</i>								
hokal-HLHX/1200	LED 3200lm 840	34	vw	ED	1176 x 85 x 72	6053 1024 160	2,80	
				DALI	1176 x 85 x 72	6053 1026 660	2,87	
				sg	ED	1176 x 85 x 72	6053 1024 165	2,80
					DALI	1176 x 85 x 72	6053 1026 665	2,87
hokal-HLHX/1500	LED 4000lm 840	42	vw	ED	1476 x 85 x 72	6053 3024 160	3,39	
				DALI	1476 x 85 x 72	6053 3026 660	3,46	
				sg	ED	1476 x 85 x 72	6053 3024 165	3,39
					DALI	1476 x 85 x 72	6053 3026 665	3,46

# hokal T5



**Mounting:**

- Suspended

**Housing:**

- Sheet steel housing

**Lighting technology HLHG:**

- Diffuser, satined; PC plastic
- Lighting characteristic direct distribution

**Lighting technology HLHIG:**

- Diffuser, satined; PC plastic
- Lighting characteristic direct/indirect distribution

**Lighting technology HLHD:**

- Micro-parabolic louvre, highly specular MIRO-SILVER ®
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1000 cd/m<sup>2</sup>

**Lighting technology HLHID:**

- Micro-parabolic louvre, highly specular MIRO-SILVER ®
- Lighting characteristic direct/indirect distribution suited for VDU workstations, 65° < 1000 cd/m<sup>2</sup>

**Lighting technology HLHX:**

- Micro-parabolic louvre, silky matt MIRO-SILVER ®
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1000 cd/m<sup>2</sup>

**Lighting technology HLHIX:**

- Micro-parabolic louvre, silky matt MIRO-SILVER ®
- Lighting characteristic direct/indirect distribution suited for VDU workstations, 65° < 1000 cd/m<sup>2</sup>

**Lamp:**

- For fitting with lamp(s) T5

**Switching:**

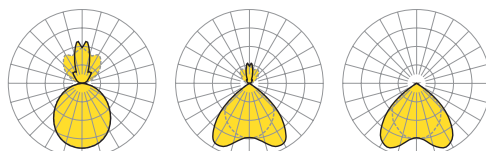
- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Accessories:**

- End faces, connectors, through-wiring and Y-wire suspensions SAY-KS/ SAYE-KL with 2000 mm suspension length to be ordered separately according to luminaire arrangements.



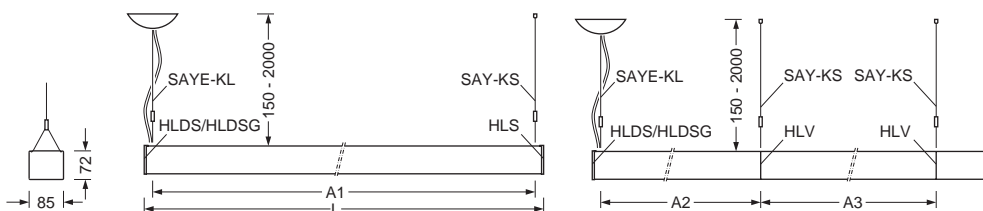
Luminaires are supplied with open ends. End faces and connectors must be ordered separately.



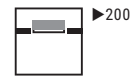
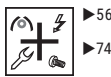
	HLHIG 1x T5 54 W	HLHID 1x T5 49 W	HLHX 1x T5 49 W
$\eta_{LB}$	52%	84%	74%
direct/indirect	71/29%	82/18%	100/0%
UGR lat./long.	21,0/21,1	18,3/17,7	20,2/19,3
VDU	65° < 1000cd/m <sup>2</sup>	65° < 1000cd/m <sup>2</sup>	65° < 1000cd/m <sup>2</sup>

## Dimensions


Type	Versions	LxBxH/DxH	A1	A2	A3	P min/max
HLH.	T5 1x28, 54 W	1176 x 85 x 72	1100	1138	1176	150 - 2000 mm
	T5 1x35, 49, 80 W	1476 x 85 x 72	1400	1438	1476	150 - 2000 mm



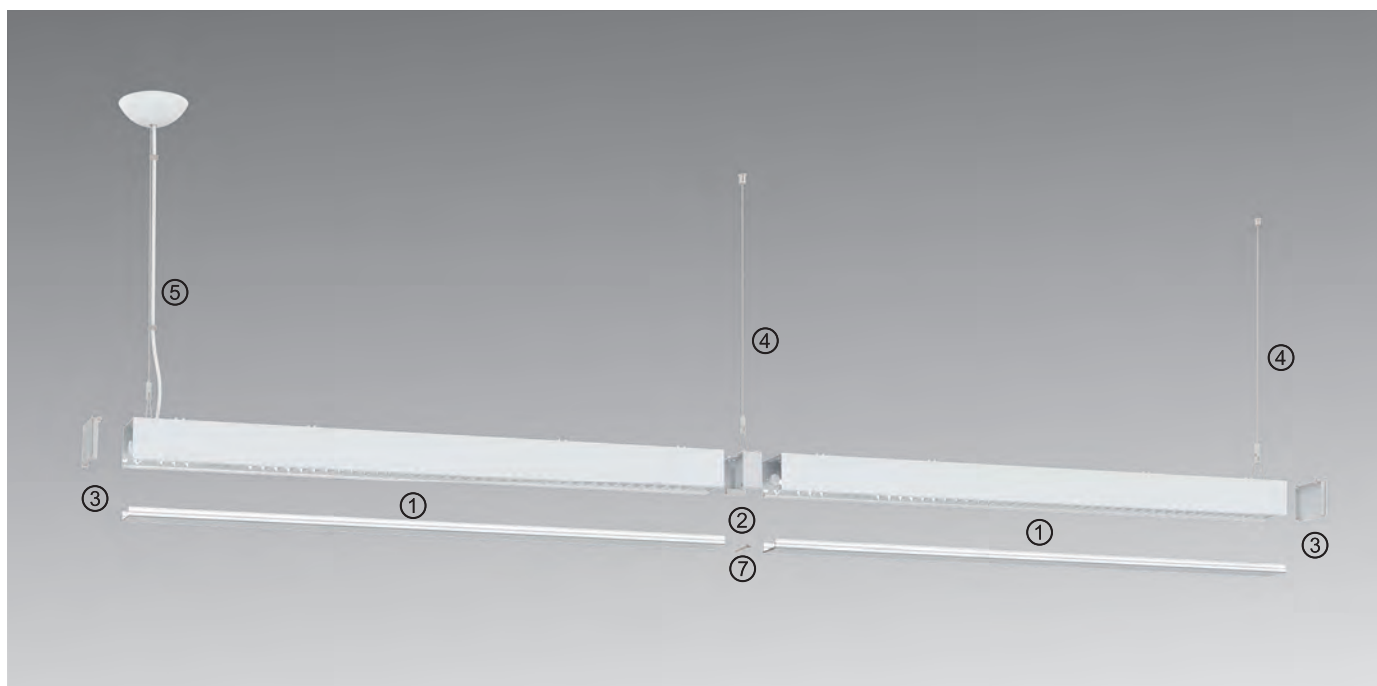




Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number		
<i>Diffuser, satined direct distribution</i>								
hokal-HLHG	T5 1x28/54W	58	vw	ECG	1176 x 85 x 72	6053 1944 180	2,56	
				ECG DALI	1176 x 85 x 72	6053 1946 680	2,56	
			sg	ECG	1176 x 85 x 72	6053 1944 185	2,56	
				ECG DALI	1176 x 85 x 72	6053 1946 685	2,56	
	T5 1x35/49/80W	52	vw	ECG	1476 x 85 x 72	6053 1954 180	3,11	
				ECG DALI	1476 x 85 x 72	6053 1956 680	3,11	
			sg	ECG	1476 x 85 x 72	6053 1954 185	3,11	
				ECG DALI	1476 x 85 x 72	6053 1956 685	3,11	
<i>Diffuser, satined direct/indirect distribution</i>								
hokal-HLHIG	T5 1x28/54W	58	vw	ECG	1176 x 85 x 72	6051 1944 180	2,93	
				ECG DALI	1176 x 85 x 72	6051 1946 680	2,93	
			sg	ECG	1176 x 85 x 72	6051 1944 185	2,93	
				ECG DALI	1176 x 85 x 72	6051 1946 685	2,93	
	T5 1x35/49/80W	52	vw	ECG	1476 x 85 x 72	6051 1954 180	3,51	
				ECG DALI	1476 x 85 x 72	6051 1956 680	3,51	
			sg	ECG	1476 x 85 x 72	6051 1954 185	3,51	
				ECG DALI	1476 x 85 x 72	6051 1956 685	3,51	
	<i>Micro-parabolic louvre, highly specular direct distribution</i>							
	hokal-HLHD	T5 1x28/54W	58	vw	ECG	1176 x 85 x 72	6053 1944 170	2,54
					ECG DALI	1176 x 85 x 72	6053 1946 670	2,54
				sg	ECG	1176 x 85 x 72	6053 1944 175	2,54
ECG DALI					1176 x 85 x 72	6053 1946 675	2,54	
T5 1x35/49/80W		52	vw	ECG	1476 x 85 x 72	6053 1954 170	3,09	
				ECG DALI	1476 x 85 x 72	6053 1956 670	3,09	
			sg	ECG	1476 x 85 x 72	6053 1954 175	3,09	
				ECG DALI	1476 x 85 x 72	6053 1956 675	3,09	
<i>Micro-parabolic louvre, highly specular direct/indirect distribution</i>								
hokal-HLHID		T5 1x28/54W	58	vw	ECG	1176 x 85 x 72	6051 1944 170	2,91
					ECG DALI	1176 x 85 x 72	6051 1946 670	2,91
				sg	ECG	1176 x 85 x 72	6051 1944 175	2,91
	ECG DALI				1176 x 85 x 72	6051 1946 675	2,91	
	T5 1x35/49/80W	52	vw	ECG	1476 x 85 x 72	6051 1954 170	3,49	
				ECG DALI	1476 x 85 x 72	6051 1956 670	3,49	
			sg	ECG	1476 x 85 x 72	6051 1954 175	3,49	
				ECG DALI	1476 x 85 x 72	6051 1956 675	3,49	
	<i>Micro-parabolic louvre, silky matt direct distribution</i>							
	hokal-HLHX	T5 1x28/54W	58	vw	ECG	1176 x 85 x 72	6053 1944 160	2,54
					ECG DALI	1176 x 85 x 72	6053 1946 660	2,54
				sg	ECG	1176 x 85 x 72	6053 1944 165	2,54
ECG DALI					1176 x 85 x 72	6053 1946 665	2,54	
T5 1x35/49/80W		52	vw	ECG	1476 x 85 x 72	6053 1954 160	3,09	
				ECG DALI	1476 x 85 x 72	6053 1956 660	3,09	
			sg	ECG	1476 x 85 x 72	6053 1954 165	3,09	
				ECG DALI	1476 x 85 x 72	6053 1956 665	3,09	
<i>Micro-parabolic louvre, silky matt direct/indirect distribution</i>								
hokal-HLHIX		T5 1x28/54W	58	vw	ECG	1176 x 85 x 72	6051 1944 160	2,91
					ECG DALI	1176 x 85 x 72	6051 1946 660	2,91
				sg	ECG	1176 x 85 x 72	6051 1944 165	2,91
	ECG DALI				1176 x 85 x 72	6051 1946 665	2,91	
	T5 1x35/49/80W	52	vw	ECG	1476 x 85 x 72	6051 1954 160	3,49	
				ECG DALI	1476 x 85 x 72	6051 1956 660	3,49	
			sg	ECG	1476 x 85 x 72	6051 1954 165	3,49	
				ECG DALI	1476 x 85 x 72	6051 1956 665	3,49	

# hokal accessories



- ① hokal with FLVWR through-wiring
- ② Luminaire connector HLV
- ③ Luminaire end faces set HLDS or HLDSG
- ④ Luminaire suspension SAY-KS
- ⑤ Luminaire suspension incl. electrical power feed SAY-KL or SAYE-KL
- ⑦ Diffuser connector GSL buffer strip

## Accessories

	Type	Colour	Material	Details	Item number		
<i>Design</i>							
Diffuser connector	GSL -1	tz	PC	Protection strip for 1/.. hokal-HL..G, procube CU..G	8460 1001 100	1	0,06
Kit of end faces	hokal -HLDS -1	vw	Al	for hokal-HLA.., hokal-HLH..	6058 1015 100	2	0,12
		wa	Al	for hokal-HLA.., hokal-HLH..	6058 1015 105	2	0,12
	hokal -HLDSG -1	vw	Al	for hokal-HLAG T5 1x.., -1 LED; hokal-HLHG T5 1x.., -1 LED	6058 1025 100	2	0,12
		wa	Al	for hokal-HLAG T5 1x.., -1 LED; hokal-HLHG T5 1x.., -1 LED	6058 1025 105	2	0,12
<i>Electrical technology</i>							
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm <sup>2</sup> for light run-capable LEDT5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1	0,16
<i>Protection</i>							
Protective cover IP20	HLIA-1 28/54	tp	Polymer	for hokal-HLHI.	6051 1940 100	1	0,16
	HLIA-1 35/49/80	tp	Polymer	for hokal-HLHI.	6051 1950 100	1	0,20
<i>Mounting</i>							
Y-wire suspension	SAY -KS 120	me	Mix	Wire D=1mm, L=2200mm, for cubus, hokal, procube, lens line, lens basic, LED T5	9511 3200 101	1	0,06
	SAYE -KL 120 3x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, x 0.75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3237 121	1	0,25
	SAYE -KL 120 5x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 5 x 0.75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3257 121	1	0,36
Tool	SH 30	sw	Polymer	Suction holder, d=30mm for smooth diffuser covers, narrow design	9203 0030 100	1	0,06
	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1	0,08
<i>Structure</i>							
Luminaire connector	hokal -HLV -1	vw	St	for hokal HLH, HLA	6058 1000 100	1	0,13







# procube



## procube – micro luminaire for lighting landscapes

The extremely compact dimensions are the most obvious characteristic of the product design. Powerful micro-parabolic louvres with low profile lamellars make this possible. Using connectors and shape joints you can combine single lights to a light run or even a complete light landscape. The integration of other components such as loudspeakers and intelligent sensing systems are also possible this way. This way, more tasks may be assigned to the often more easily accessible lighting level.

The procube lights are especially attractive when combined with the multitude of applications. This is valid both for the direct lighting from a surface mounted lamp and also the direct / indirect pendant luminaire. And on the lighting technological side the luminaires are on the safe side as well, as they are anti-glare and compliant with DIN-EN 12464-1. The extremely high efficiency is due to the louvre material with reflection amplification by a pure silver coating. This makes the light family procube the modern solution for multifunctional light run solutions and light landscapes.



### Type overview

- ▶ CUHX Micro-parabolic louvre, silky matt direct distribution
- ▶ CUHIG Diffuser, satined direct/indirect distribution
- ▶ CUHID Micro-parabolic louvre, highly specular direct/indirect distribution
- ▶ CUHIX Micro-parabolic louvre, silky matt direct/indirect distribution



# procube LED



LED A+ 1500 CE IP 20

**Mounting:**

- Suspended

**Housing:**

- Sheet steel housing

**Lighting technology CUHX:**

- Micro-parabolic louvre, silky matt MIRO-SILVER ®
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1500 cd/m²

**Lamp:**

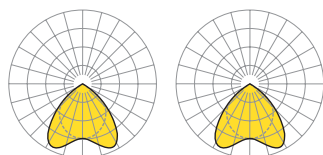
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

**Accessories:**

- Required accessories: order end faces, connectors, through-wiring and Y-wire-rope suspensions SAY-KS/SAYE-KL with 2000 mm suspension length separately according to luminaire arrangements.



**CUHX/1200-1 LED**  
3200 lm 840

**CUHX/1500-1 LED**  
4000 lm 840

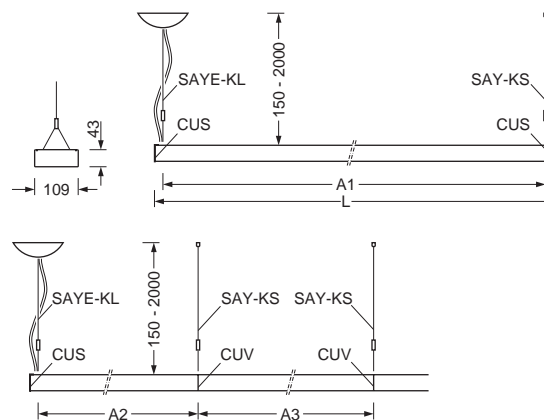
$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	96	lm/W	96
direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	20,7/20,0	UGR lat./long.	20,7/19,9
VDU	65° < 1500cd/m²	VDU	65° < 1500cd/m²



Luminaires are supplied with open ends. End faces and connectors must be ordered separately.

**Dimensions**

Type	Versions	LxBxH/DxH	A1	A2	A3	P min/max
CUH./1200-1 LED		1179 x 109 x 43	1076	1126	1176	150 - 2000 mm
CUH./1500-1 LED		1479 x 109 x 43	1376	1426	1476	150 - 2000 mm



**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Micro-parabolic louvre, silky matt direct distribution</i>							
procube-CUHX/1200-1	LED 3200lm 840	34	vw	ED	1179 x 109 x 43	6043 1024 160	2,85
		34	vw	DALI	1179 x 109 x 43	6043 1026 660	2,92
procube-CUHX/1500-1	LED 4000lm 840	42	vw	ED	1479 x 109 x 43	6043 3024 160	3,29
		42	vw	DALI	1479 x 109 x 43	6043 3026 660	3,36





# procube T5



**Mounting:**

- Suspended

**Housing:**

- Sheet steel housing

**Lighting technology CUHIG:**

- Diffuser, satined; PC plastic
- Lighting characteristic direct/indirect distribution

**Lighting technology CUHID:**

- Micro-parabolic louvre, highly specular MIRO-SILVER ®
- Lighting characteristic direct/indirect distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology CUHIX:**

- Micro-parabolic louvre, silky matt MIRO-SILVER ®
- Lighting characteristic direct/indirect distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lamp:**

- For fitting with lamp(s) T5

**Switching:**

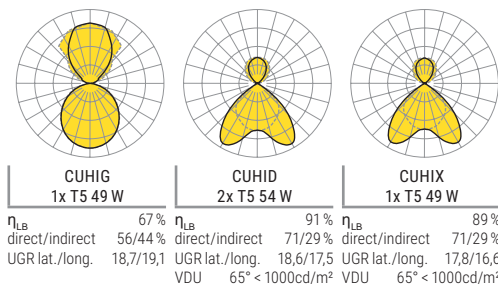
- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Accessories:**

- Required accessories: please order end faces, connectors, through-wiring and Y-wire-rope suspensions SAY-KS/SAYE-KL with 2000 mm suspension length separately according to luminaire arrangements.
- Remote control for the commissioning and/or operation of the DALIeco (M5S5) light control system must be ordered separately.



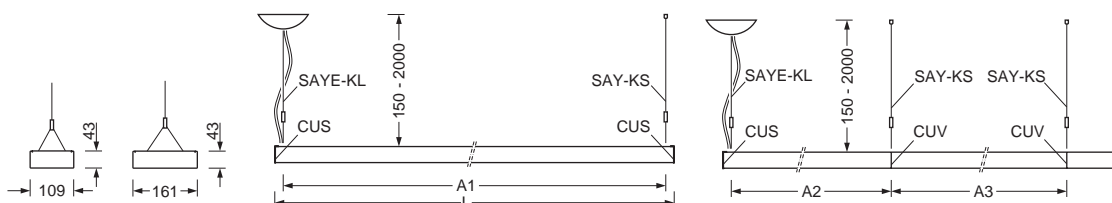
Luminaires are supplied with open ends. End faces and connectors must be ordered separately.



## Dimensions


Type	Versions	LxBxH/DxH	A1	A2	A3	P min/max
CUH.	T5 1x28, 54 W	1179 x 109 x 43	1076	1126	1176	150 - 2000 mm
	T5 1x35, 49, 80 W	1479 x 109 x 43	1376	1426	1476	150 - 2000 mm
	T5 2x28, 54 W	1179 x 161 x 43	1076	1126	1176	150 - 2000 mm
	T5 2x35, 49, 80 W	1479 x 161 x 43	1376	1426	1476	150 - 2000 mm

CUH. 1x ... CUH. 2x ...



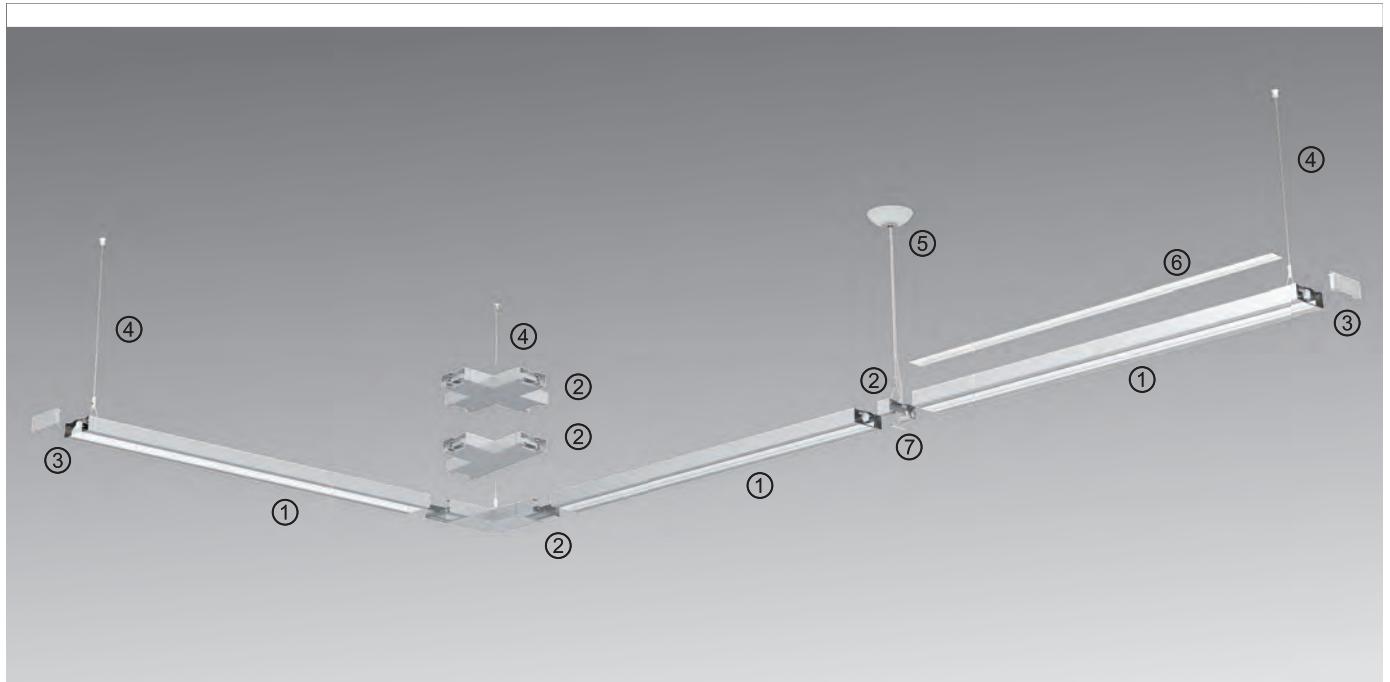


Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, satined direct/indirect distribution</i>							
procube-CUHIG	T5 1x28/54W	58	vw	ECG	1179 x 109 x 43	6041 1944 180	2,10
				ECG DALI	1179 x 109 x 43	6041 1946 680	2,10
			sg	ECG	1179 x 109 x 43	6041 1944 185	2,10
				ECG DALI	1179 x 109 x 43	6041 1946 685	2,10
	T5 1x35/49/80W	52	vw	ECG	1479 x 109 x 43	6041 1954 180	2,40
				ECG DALI	1479 x 109 x 43	6041 1956 680	2,40
				ECG M5S5 DALI	1479 x 109 x 43	8441 1958 680	2,60
			sg	ECG	1479 x 109 x 43	6041 1954 185	2,40
				ECG DALI	1479 x 109 x 43	6041 1956 685	2,40
				ECG EM pack B3	1479 x 109 x 43	6041 1497 780	3,00
	T5 2x28/54W	116	vw	ECG	1179 x 161 x 43	6041 2944 180	2,60
				ECG DALI	1179 x 161 x 43	6041 2946 680	2,60
			sg	ECG	1179 x 161 x 43	6041 2944 185	2,60
				ECG DALI	1179 x 161 x 43	6041 2946 685	2,60
	T5 2x35/49/80W	104	vw	ECG	1479 x 161 x 43	6041 2954 180	3,10
				ECG DALI	1479 x 161 x 43	6041 2956 680	3,10
				ECG M5S5 DALI	1479 x 161 x 43	8441 2958 680	3,30
			sg	ECG	1479 x 161 x 43	6041 2954 185	3,10
				ECG DALI	1479 x 161 x 43	6041 2956 685	3,10
				ECG EM pack B3	1479 x 161 x 43	6041 2497 780	3,70
<i>Micro-parabolic louvre, highly specular direct/indirect distribution</i>							
procube-CUHID	T5 1x28/54W	58	vw	ECG	1179 x 109 x 43	6041 1944 170	2,10
				ECG DALI	1179 x 109 x 43	6041 1946 670	2,10
			sg	ECG	1179 x 109 x 43	6041 1944 175	2,10
				ECG DALI	1179 x 109 x 43	6041 1946 675	2,10
	T5 1x35/49/80W	52	vw	ECG	1479 x 109 x 43	6041 1954 170	2,40
				ECG DALI	1479 x 109 x 43	6041 1956 670	2,40
				ECG M5S5 DALI	1479 x 109 x 43	8441 1958 670	2,60
			sg	ECG	1479 x 109 x 43	6041 1954 175	2,40
				ECG DALI	1479 x 109 x 43	6041 1956 675	2,40
				ECG EM pack B3	1479 x 109 x 43	6041 1497 770	3,00
	T5 2x28/54W	116	vw	ECG	1179 x 161 x 43	6041 2944 170	2,60
				ECG DALI	1179 x 161 x 43	6041 2946 670	2,60
			sg	ECG	1179 x 161 x 43	6041 2944 175	2,60
				ECG DALI	1179 x 161 x 43	6041 2946 675	2,60
	T5 2x35/49/80W	104	vw	ECG	1479 x 161 x 43	6041 2954 170	3,10
				ECG DALI	1479 x 161 x 43	6041 2956 670	3,10
				ECG M5S5 DALI	1479 x 161 x 43	8441 2958 670	3,30
			sg	ECG	1479 x 161 x 43	6041 2954 175	3,10
				ECG DALI	1479 x 161 x 43	6041 2956 675	3,10
				ECG EM pack B3	1479 x 161 x 43	6041 2497 770	3,70
<i>Micro-parabolic louvre, silky matt direct/indirect distribution</i>							
procube-CUHIX	T5 1x28/54W	58	vw	ECG	1179 x 109 x 43	6041 1944 160	2,10
				ECG DALI	1179 x 109 x 43	6041 1946 660	2,10
			sg	ECG	1179 x 109 x 43	6041 1944 165	2,10
				ECG DALI	1179 x 109 x 43	6041 1946 665	2,10
	T5 1x35/49/80W	52	vw	ECG	1479 x 109 x 43	6041 1954 160	2,40
				ECG DALI	1479 x 109 x 43	6041 1956 660	2,40
				ECG M5S5 DALI	1479 x 109 x 43	8441 1958 660	2,60
			sg	ECG	1479 x 109 x 43	6041 1954 165	2,40
				ECG DALI	1479 x 109 x 43	6041 1956 665	2,40
				ECG EM pack B3	1479 x 109 x 43	6041 1497 760	3,00
	T5 2x28/54W	116	vw	ECG	1179 x 161 x 43	6041 2944 160	2,60
				ECG DALI	1179 x 161 x 43	6041 2946 660	2,60
			sg	ECG	1179 x 161 x 43	6041 2944 165	2,60
				ECG DALI	1179 x 161 x 43	6041 2946 665	2,60
	T5 2x35/49/80W	104	vw	ECG	1479 x 161 x 43	6041 2954 160	3,10
				ECG DALI	1479 x 161 x 43	6041 2956 660	3,10
				ECG M5S5 DALI	1479 x 161 x 43	8441 2958 660	3,30
			sg	ECG	1479 x 161 x 43	6041 2954 165	3,10
				ECG DALI	1479 x 161 x 43	6041 2956 665	3,10
				ECG EM pack B3	1479 x 161 x 43	6041 2497 760	3,70



# procube accessories





- ① procube with FLVWR through-wiring
- ② Luminaire connectors – straight, L, T and X shapes
- ③ Luminaire end faces set CUS
- ④ Luminaire suspension SAY-KS
- ⑤ Luminaire suspension incl. electrical power feed SAY-KL or SAYE-KL
- ⑥ Transparent cover for the indirect lighting component CUIA
- ⑦ Diffuser connector GSL, protection strip





## Accessories

	Type	Colour	Material	Details	Item number		
<i>Design</i>							
Diffuser connector	GSL -1	tz	PC	Protection strip for 1/.. hokal-HL..G, procube CU..G	8460 1001 100	1	0,06
	GSL -2	tz	PC	Protection strip for 2/.. hokal-HL..G, procube CU..G	8460 1002 100	1	0,06
Kit of end faces	procube -CUS -1	vw	St	for procube CUA. T5 1x.../-1 LED, CUAWF-1 LED	6049 1005 100	2	0,20
		sg	St	for procube CUA. T5 1x.../-1 LED, CUAWF-1 LED	6049 1005 105	2	0,20
	procube -CUS -2	vw	St	for procube CUA. T5 2x.../-2 LED, CUAWF T5 1x...	6049 2005 100	2	0,33
		sg	St	for procube CUA. T5 2x.../-2 LED, CUAWF T5 1x...	6049 2005 105	2	0,33
<i>Electrical technology</i>							
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm <sup>2</sup> for light run-capable LEDT5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1	0,16
Light Control	LC-OM MASTER REMOTE PC KIT			Remote control for commissioning the DALIeco (M5S5) light control system	8450 1041 200	1	0,11
	LC-OM USER REMOTE			Remote control for the operation of the DALIeco (M5S5) light control system	8450 1042 100	1	0,11
<i>Protection</i>							
Protective cover IP20	CUIA-1 28/54	tp	Polymer	for procube-CUHI. 1x 28/54	6049 1940 100	1	0,15
	CUIA-1 35/49/80	tp	Polymer	for procube-CUHI. 1x 35/49/80	6049 1950 100	1	0,19
	CUIA-2 28/54	tp	Polymer	for procube-CUHI. 2x 28/54	6049 2940 100	1	0,21
<i>Mounting</i>							
Y-wire suspension	SAY -KS 120	me	Mix	Wire D=1mm, L=2200mm, for cubus, hokal, procube, lens line, lens basic, LED T5	9511 3200 101	1	0,06
	SAYE -KL 120 3x0,75 vw		Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 3 x 0.75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3237 121	1	0,25
	SAYE -KL 120 5x0,75 vw		Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 5 x 0.75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3257 121	1	0,36
	SAYE -KL 120 9x0,75 tp		Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 9 x 0.75 mm <sup>2</sup> for M5S5 master luminaires	9510 3297 131	1	0,00
Tool	SH 30	sw	Polymer	Suction holder, d=30mm for smooth diffuser covers, narrow design	9203 0030 100	1	0,06
	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1	0,08
<i>Structure</i>							
Luminaire connector	procube -CUV -1	vw	St	0° for procube T5 1x..., CUH.-1 LED	6049 1000 100	1	0,10
	procube -CUV -2	vw	St	0° for procube T5 2x..., CUH.-2 LED	6049 2000 100	1	0,12
	procube -CUVE -1	vw	St	L 90° for procube T5 1x..., -1 LED	6049 1002 100	1	0,50
		sg	St	L 90° for procube T5 1x..., -1 LED	6049 1002 105	1	0,50
	procube -CUVE -2	vw	St	L 90° for procube T5 2x..., -2 LED	6049 2002 100	1	0,82
		sg	St	L 90° for procube T5 2x..., -2 LED	6049 2002 105	1	0,82
	procube -CUVK -1	vw	St	X 90° for procube T5 1x..., -1 LED	6049 1004 100	1	0,70
		sg	St	X 90° for procube T5 1x..., -1 LED	6049 1004 105	1	0,70
	procube -CUVK -2	vw	St	X 90° for procube T5 2x..., -2 LED	6049 2004 100	1	0,80
		sg	St	X 90° for procube T5 2x..., -2 LED	6049 2004 105	1	0,80
	procube -CUVT -1	vw	St	T 90° for procube T5 1x..., -1 LED	6049 1003 100	1	0,60
		sg	St	T 90° for procube T5 1x..., -1 LED	6049 1003 105	1	0,60
	procube -CUVT -2	vw	St	T 90° for procube T5 2x..., -2 LED	6049 2003 100	1	0,77
		sg	St	T 90° for procube T5 2x..., -2 LED	6049 2003 105	1	0,79







# cubus



## cubus - diversity is the name of the game

The powder-coated sheet steel housing in traffic white or white aluminium is a genuine purist with its rectangular cross section. The end faces of same colour made of plastic with integrated light run connector are easy to detach and to replace with a suspension bracket for the mounting, with light run, which accommodates a Y-wire suspension. That makes one suspension point less per luminaire and thus saves a great deal of installation time. An additional advantage: The louvres are thus optically seamless. The through wiring is quickly and easily implemented, thanks to the three-pole plug-in connection terminal clamps. Configuring of cables is not necessary with use of the through-wiring accessories. What all versions have in common is the light distribution via aluminium parabolic louvre; only in case of the LED version, there is also available a frosted diffuser. Luminaires with T5 and T8 lamps with darklight louvre (RSADIC) or LED with matt aluminium parabolic louvre (RSAXHC) have omnidirectional glare reduction  $65^\circ < 1000 \text{ cd/m}^2$  according to DIN EN 12464-1 and are therefore suitable for the illumination of VDU workstations. The version RSAGHC LED with frosted diffuser and RSXAIC T8 with matt aluminium parabolic louvre is above all designed representative general illumination. Numerous variants for dimming and emergency light are implementable via accessories or from the factory on request.



### Type overview

- ▶ RSAGHC Diffuser, satined direct distribution
- ▶ RSAXHC Parabolic louvre, silky matt direct distribution
- ▶ RSADIC Parabolic louvre, highly specular direct/indirect distribution
- ▶ RSAXIC Parabolic louvre, silky matt direct/indirect distribution
- ▶ RSXAIC Parabolic louvre, matt direct/indirect distribution

# cubus LED



LED A+ 1000 CE IP 20

**Mounting:**

- Suspended

**Housing:**

- Sheet steel housing, plastic end faces with integrated light run connectors

**Lighting technology RSAGHC:**

- Diffuser, satined; PC plastic
- Lighting characteristic direct distribution

**Lighting technology RSAXHC:**

- Parabolic louvre, silky matt; aluminium
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1000 cd/m<sup>2</sup>

**Lamp:**

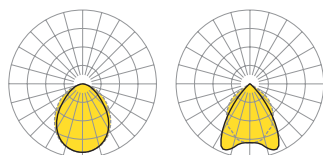
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

**Accessories:**

- For the suspensions, the Y-wire suspension kits SAY-KS / SAYE-KL with 2000mm suspension length are to be ordered separately. With light run mounting, additionally per luminaire-joint one suspension bracket SAB.



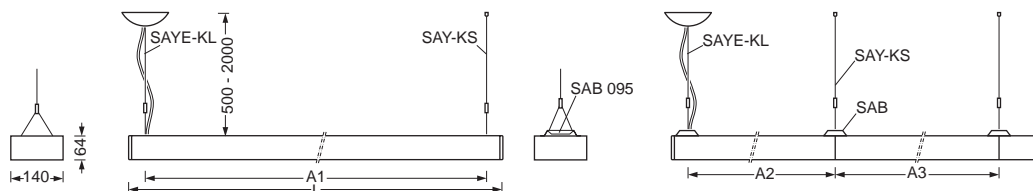
RSAGHC-1200 LED 2400 lm 840		RSAXHC-1500 LED 4000 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	112	lm/W	134
direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	20,6/22,4	UGR lat./long.	15,5/19,0
VDU	65° < 1000cd/m <sup>2</sup>		



Luminaire connector integrated in luminaire for continuous louvre appearance. The SAB mounting bracket for suspension where luminaires abut must be ordered separately.

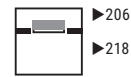
## Dimensions

Type	Versions	LxBxH/DxH	A1	A2	A3	P min/max
RSA-1200	LED	1188 x 140 x 64	1076	1126	1176	500 - 2000 mm
RSA-1500	LED	1488 x 140 x 64	1376	1426	1476	500 - 2000 mm





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▶218



▶126



## Products

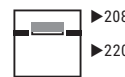
Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, satined direct distribution</i>							
cubus-RSAGHC-1200	LED 2400lm 840	22	vw	ED	1188 x 140 x 64	6524 0014 180	4,05
				DALI	1188 x 140 x 64	6524 0016 680	4,05
cubus-RSAGHC-1500	LED 3000lm 840	27	vw	ED	1488 x 140 x 64	6524 0024 180	4,64
				DALI	1488 x 140 x 64	6524 0026 680	4,64
<i>Parabolic louvre, silky matt direct distribution</i>							
cubus-RSAXHC-1200	LED 3200lm 840	24	vw	ED	1188 x 140 x 64	6524 0014 160	4,05
				DALI	1188 x 140 x 64	6524 0016 660	4,05
cubus-RSAXHC-1500	LED 4000lm 840	30	vw	ED	1488 x 140 x 64	6524 0024 160	4,64
				DALI	1488 x 140 x 64	6524 0026 660	4,64

## Accessories

Type	Colour	Material	Details	Item number	kg	
<i>Electrical technology</i>						
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm <sup>2</sup> for light run-capable LEDT5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1 0,16
<i>Mounting</i>						
Suspension bracket	SAB 095	me	Inox	0° for T5 cubus	9591 5190 100	1 0,05
Y-wire suspension	SAY -KS 120	me	Mix	Wire D=1mm, L=2200mm, for cubus, hokal, procube, lens line, lens basic, LED T5	9511 3200 101	1 0,06
	SAYE -KL 120 3x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 3 x 0.75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3237 121	1 0,25
	SAYE -KL 120 5x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 5 x 0.75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3257 121	1 0,36
Tool	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1 0,08



# cubus T5



**Mounting:**

- Suspended

**Housing:**

- Sheet steel housing, plastic end faces with integrated light run connectors

**Lighting technology RSADIC:**

- Parabolic louvre, highly specular; aluminium reflectivity enhanced
- Lighting characteristic direct/indirect distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology RSAXIC:**

- Parabolic louvre, silky matt; aluminium reflectivity enhanced
- Lighting characteristic direct/indirect distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lamp:**

- For fitting with lamp(s) T5

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Accessories:**

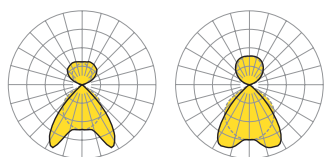
- For the suspensions, the Y-wire suspension kits SAY-KS / SAYE-KL with 2000mm suspension length must be ordered separately. With light run mounting, additionally per luminaire-joint one suspension bracket SAB.



cubus-RSADIC 1 x T5 ... vw  
cubus-RSADIC 2 x T5 ... vw



cubus-RSAXIC 1 x T5 ... vw  
cubus-RSAXIC 2 x T5 ... vw



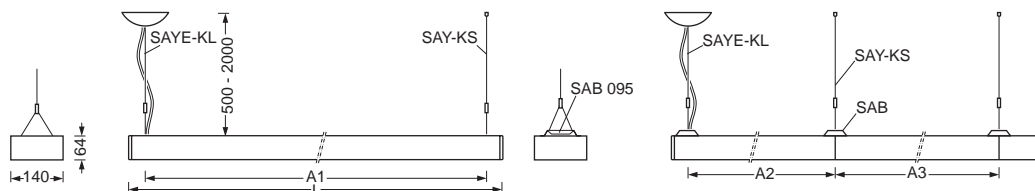
RSADIC 1x T5 54 W		RSAXIC 2x T5 49 W	
$\eta_{LB}$	95%	$\eta_{LB}$	100%
direct/indirect	58/42%	direct/indirect	60/40%
UGR lat./long.	13,3/15,0	UGR lat./long.	14,4/17,0
VDU	$65^\circ < 1000 \text{ cd/m}^2$	VDU	$65^\circ < 1000 \text{ cd/m}^2$



Luminaire connector integrated in luminaire for continuous louvre appearance. The SAB mounting bracket for suspension where luminaires abut must be ordered separately.

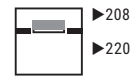
## Dimensions

Type	Versions	LxBxH/DxH	A1	A2	A3	P min/max
RSA.	T5 1x28, 54 W	1188 x 140 x 64	1076	1126	1176	500 - 2000 mm
	T5 1x35, 49, 80 W	1488 x 140 x 64	1376	1426	1476	500 - 2000 mm
	T5 2x35, 49, 80 W	1488 x 140 x 64	1376	1426	1476	500 - 2000 mm





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## Products

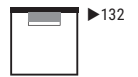
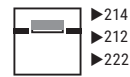
Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Parabolic louvre, highly specular direct/indirect distribution</i>							
cubus-RSADIC	T5 1x28/54W	58	vw	ECG	1188 x 140 x 64	6514 1944 170	3,30
				ECG DALI	1188 x 140 x 64	6514 1946 670	2,96
	T5 1x35/49/80W	52	vw	ECG	1488 x 140 x 64	6514 1954 170	2,70
				ECG DALI	1488 x 140 x 64	6514 1956 670	3,63
	T5 2x35/49W	104	vw	ECG	1488 x 140 x 64	6514 2964 170	2,70
				ECG DALI	1488 x 140 x 64	6514 2966 670	2,70
<i>Parabolic louvre, silky matt direct/indirect distribution</i>							
cubus-RSAXIC	T5 1x28/54W	58	vw	ECG	1188 x 140 x 64	6514 1944 160	2,65
				ECG DALI	1188 x 140 x 64	6514 1946 660	2,65
	T5 1x35/49/80W	52	vw	ECG	1488 x 140 x 64	6514 1954 160	3,24
				ECG DALI	1488 x 140 x 64	6514 1956 660	3,24
	T5 2x35/49W	104	vw	ECG	1488 x 140 x 64	6514 2964 160	3,34
				ECG DALI	1488 x 140 x 64	6514 2966 660	3,34

## Accessories

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm <sup>2</sup> for light run-capable LEDT5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100 1 0,16
<i>Mounting</i>					
Suspension bracket	SAB 095	me	Inox	0° for T5 cubus	9591 5190 100 1 0,05
Y-wire suspension	SAY -KS 120	me	Mix	Wire D=1mm, L=2200mm, for cubus, hokal, procube, lens line, lens basic, LED T5	9511 3200 101 1 0,06
	SAYE -KL 120 3x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 3 x 0.75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3237 121 1 0,25
	SAYE -KL 120 5x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 5 x 0.75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3257 121 1 0,36



# cubus T8



**Mounting:**

- Suspended

**Housing:**

- Sheet steel housing, plastic end faces with integrated light run connectors

**Lighting technology RSADIC:**

- Parabolic louvre, highly specular; aluminium
- Lighting characteristic direct/indirect distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology RSXAIC:**

- Parabolic louvre, matt; aluminium
- Lighting characteristic direct/indirect distribution suited for VDU workstations,  $65^\circ < 3000 \text{ cd/m}^2$

**Lamp:**

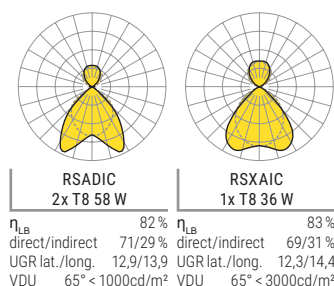
- For fitting with lamp(s) T8

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Accessories:**

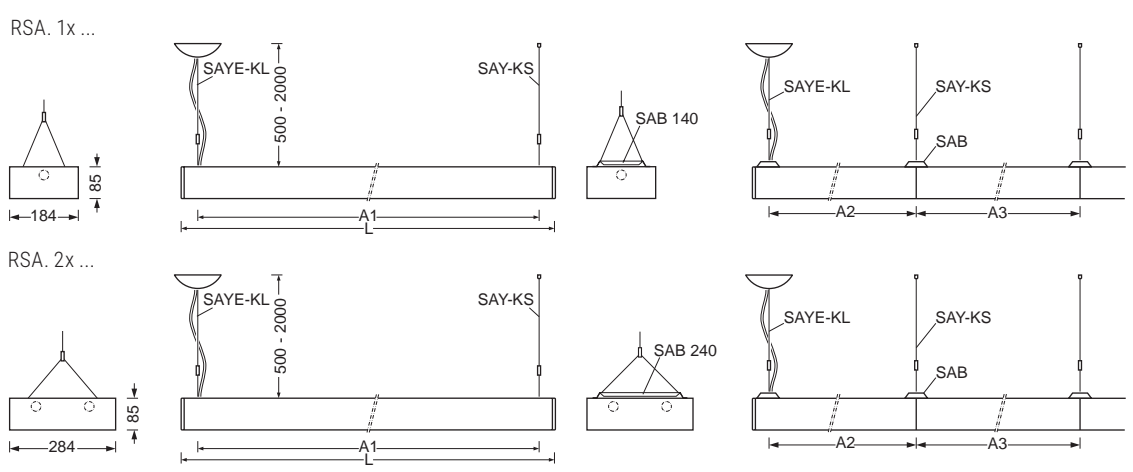
- For the suspensions, the Y-wire suspension kits SAY-KS / SAYE-KL with 2000mm suspension length are to be ordered separately. With light run mounting, additionally per luminaire-joint one suspension bracket SAB.



Luminaire connector integrated in luminaire for continuous louvre appearance. The SAB mounting bracket for suspension where luminaires abut must be ordered separately.

## Dimensions

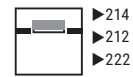
Type	Versions	LxBxH/DxH	A1	A2	A3	P min/max
RSA.	T8 1x36W	1241 x 184 x 85	1129	1179	1229	500 - 2000 mm
	T8 1x58W	1541 x 184 x 85	1429	1479	1529	500 - 2000 mm
	T8 2x36W	1241 x 284 x 85	1129	1179	1229	500 - 2000 mm
	T8 2x58W	1541 x 284 x 85	1429	1479	1529	500 - 2000 mm







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▶214  
▶212  
▶222





▶132



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Parabolic louvre, highly specular direct/indirect distribution</i>							
cubus-RSADIC	T8 1x36W	36	vw	ECG	1241 x 184 x 85	6514 1364 170	2,96
	T8 1x58W	55	vw	ECG	1541 x 184 x 85	6514 1584 170	3,49
	T8 2x36W	72	vw	ECG	1241 x 284 x 85	6514 2364 170	3,50
	T8 2x58W	110	vw	ECG	1541 x 284 x 85	6514 2584 170	4,44
<i>Parabolic louvre, matt direct/indirect distribution</i>							
cubus-RSXAIC	T8 1x36W	36	vw	ECG	1241 x 184 x 85	6514 1364 150	2,91
	T8 1x58W	55	vw	ECG	1541 x 184 x 85	6514 1584 150	3,43
	T8 2x36W	72	vw	ECG	1241 x 284 x 85	6514 2364 150	3,40
	T8 2x58W	110	vw	ECG	1541 x 284 x 85	6514 2584 150	4,32

## Accessories

Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>						
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm <sup>2</sup> for light run-capable LEDT5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1 0,16
Emergency lamp socket	E14 H	ws	Polymer	E14/IT-25 horiz. for T8	9452 0320 100	1 0,20
<i>Mounting</i>						
Suspension bracket	SAB 240	me	Inox	0° for T8 2/... cubus	9591 0295 100	1 0,16
	SAB 140	me	Inox	0° for T8 1/... cubus	9591 0190 100	1 0,10
Y-wire suspension	SAY -KS 295	me	Mix	Wire D=1mm, L=2200mm for cubus T8	9511 2200 101	1 0,04
	SAYE -KL 295 3x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 3x0.75mm <sup>2</sup> for cubus T8	9510 2237 121	1 0,25
	SAYE -KL 295 5x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 5x0.75mm <sup>2</sup> for cubus T8	9510 2257 121	1 0,36



# Accessory for alternative suspension



## Accessories

	Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>							
Connection cable power	A-LTG 2300 3x0,75	tp	H03VV-F	l=2300mm, 3x0.75mm <sup>2</sup> for suspended luminaires	9570 0237 130	1	0,12
		ws	H03VV-F	l=2300mm, 3x0.75mm <sup>2</sup> for suspended luminaires	9570 0237 120	1	0,12
		ga	H03VV-F	l=2300mm, 3x0.75mm <sup>2</sup> for suspended luminaires	9570 0237 110	1	0,12
	A-LTG 2300 5x0,75	tp	H03VV-F	l=2300mm, 5x0.75mm <sup>2</sup> for suspended luminaires	9570 0257 130	1	0,19
		ws	H03VV-F	l=2300mm, 5x0.75mm <sup>2</sup> for suspended luminaires	9570 0257 120	1	0,19
		ga	H03VV-F	l=2300mm, 5x0.75mm <sup>2</sup> for suspended luminaires	9570 0257 110	1	0,19
Electrical connections	Baldachin -KR	ws	ABS+polymer	Canopy d=73mm for suspended luminaires	9584 0000 100	1	0,05
		sg	ABS+polymer	Canopy d=73mm for suspended luminaires	9584 0000 105	1	0,05
	Baldachin -ME	ws	St	Canopy l=80mm, b=80mm for suspended luminaires	9585 0000 100	1	0,12
		sg	St	Canopy l=80mm, b=80mm for suspended luminaires	9585 0000 105	1	0,12
Single wire suspension	SAE -M	vw	Stainless steel+mix	Set with integrated 1-channel EnOcean radio receiver for button dim control of DALI suspended luminaires. Remote controls and wall switches must be ordered separately.	9512 0257 230	1	0,50
		wa	Stainless steel+mix	Set with integrated 1-channel EnOcean radio receiver for button dim control of DALI suspended luminaires. Remote controls and wall switches must be ordered separately.	9512 0257 235	1	0,50
Light Control	LC-PE EnOcean MFB4K sw		Polymer	EnOcean mini handheld transmitter, 4-channel (wireless)	8450 7007 100	1	0,08
	LC-PE EnOcean T2K ws		Polymer	EnOcean wall transmitter, 2 channels (wireless)	8450 7005 100	1	0,08
	LC-PE EnOcean T4K ws		Polymer	EnOcean wall transmitter, 4 channel (wireless)	8450 7006 100	1	0,06
Chain suspension	KB	me	St	for suspended luminaires	9282 8000 100	1	0,01
	KK	me	St	Chain l=30m, for SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1	4,60
	KP 80	me	St+PC	l=800mm for suspended luminaires	9282 9080 100	1	0,27
Y-wire suspension	SAY -KS 120	me	Mix	Wire D=1mm, L=2200mm, for cubus, hokal, procube, lens line, lens basic, LED T5	9511 3200 101	1	0,06
	SAY -KS 190	me	Mix	Wire D = 1mm, L = 2200mm for stail	9511 1200 101	1	0,06





### visula



#### ►81

- 84 VSAIG LED
- 84 VSAIMP LED

### protection



#### ►87

- 88 IPA-PRAG LED
- 88 IPA-PRAMP LED
- 90 PRAMP LED
- 90 PRAG LED
- 90 PRAO LED
- 92 PRAO T5
- 92 PRAP T5
- 92 PRADS T5

### peanut



#### ►95

- 96 corridor-AGI LED
- 98 corridor-AGI T5
- 98 office-AZI T5
- 98 school-ALR T5
- 100 industry-A T5
- 100 board-AW T5
- 100 gallery-AWF T5

### stail



#### ►103

- 104 SAX LED
- 106 SAD T5
- 106 SAX T5

### cubus



#### ►125

- 126 RSAGC LED
- 126 RSAXC LED
- 126 RWFAC LED
- 128 RSADC T5, RSAXC T5
- 130 RSADAC T5, RMAC T5
- 130 RSAXAC T5, RWFAC T5
- 132 RSADC T8, RSXAC T8
- 132 RMAC T8, RSXAAC T8
- 132 RWFAC T8

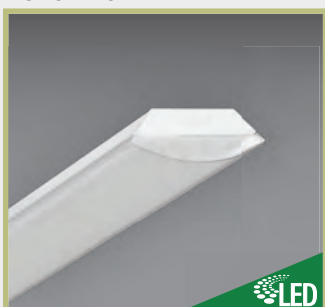
### UA



#### ►135

- 136 UAX LED
- 138 UAD T5
- 138 UAX T5
- 138 UAM T5

### lens line



#### ►149

- 150 LSAK LED
- 150 LSAP LED
- 152 LSAK T5
- 152 LSAKPC T5
- 152 LSAP T5

### lens basic



#### ►155

- 156 LBAK T5
- 156 LBAKPC T5
- 156 LBAP T5

# Surface-mounted luminaires

## hokal



### ▶109

- ▶ 110 HLAX LED
- ▶ 110 HLAG LED
- ▶ 112 HLAG T5
- ▶ 112 HLAD T5
- ▶ 112 HLAX T5

## procube



### ▶117

- ▶ 118 CUAX LED
- ▶ 118 CUAWF LED
- ▶ 120 CUAG T5
- ▶ 120 CUAD T5
- ▶ 120 CUAX T5
- ▶ 120 CUAWF T5

## rebus



### ▶141

- ▶ 142 RSAD T8
- ▶ 142 RSXA T8
- ▶ 142 RMA T8
- ▶ 142 RSXAA T8
- ▶ 142 RKOAD TC-L
- ▶ 142 RKOASX TC-L

## wotek



### ▶145

- ▶ 146 WKO LED

## KL



### ▶159

- ▶ 160 KLKF T5
- ▶ 160 KLKF T8
- ▶ 162 KLPF T5
- ▶ 162 KLPF T8

## WL



### ▶165

- ▶ 166 WBLR LED
- ▶ 166 WBLR TC-DEL
- ▶ 166 WBLR TC-F
- ▶ 166 WBLR TC-TSE
- ▶ 168 WQL LED



Light strips and furniture luminaires

ilia

▶ 278



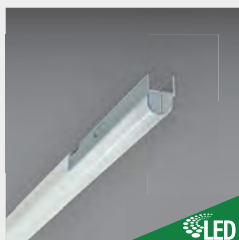
vakant

▶ 282



MLF

▶ 288



IL

▶ 294



Recessed luminaires

panella

▶ 183



Sport hall luminaires

sportler

▶ 492



THL

▶ 504





# Surface-mounted luminaires

from other chapters



## Standing and wall-mounted luminaires

alvia ▶ 230



smile ▶ 240



visula ▶ 237

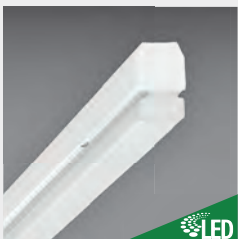


MLS ▶ 244



## Quick-fit mounting system

SDT-System ▶ 321

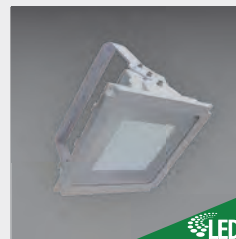


## High bay reflector and field luminaires

worker ▶ 442



quanta ▶ 448



hara ▶ 454



## Damp-proof luminaires

WL ▶ 464



parsa ▶ 468



PU ▶ 472



PA, PC ▶ 476



PFL ▶ 482







# visula

## visula surface-mounted luminaire – design concept for high-quality office lighting

The surface-mounted luminaire visula LED was created in cooperation with Busse Design+Engineering especially for modern office worlds with room-specific lighting. To remain independent of the furnishing, mounted luminaires are especially suited here. Thanks to the modest light corona and large-surface homogeneously lighting bright emitting surface of the visula ceiling light, the room atmosphere also remains light and friendly on the ceiling. The edge feed allows the low construction height with all necessary parts and the clip assembly makes the light swing literally under a cloud of light. When it comes to project requirements, visula also has numerous modification possibilities in addition to many standard variants. As a result, the luminaire enthruses clients to architects to users.

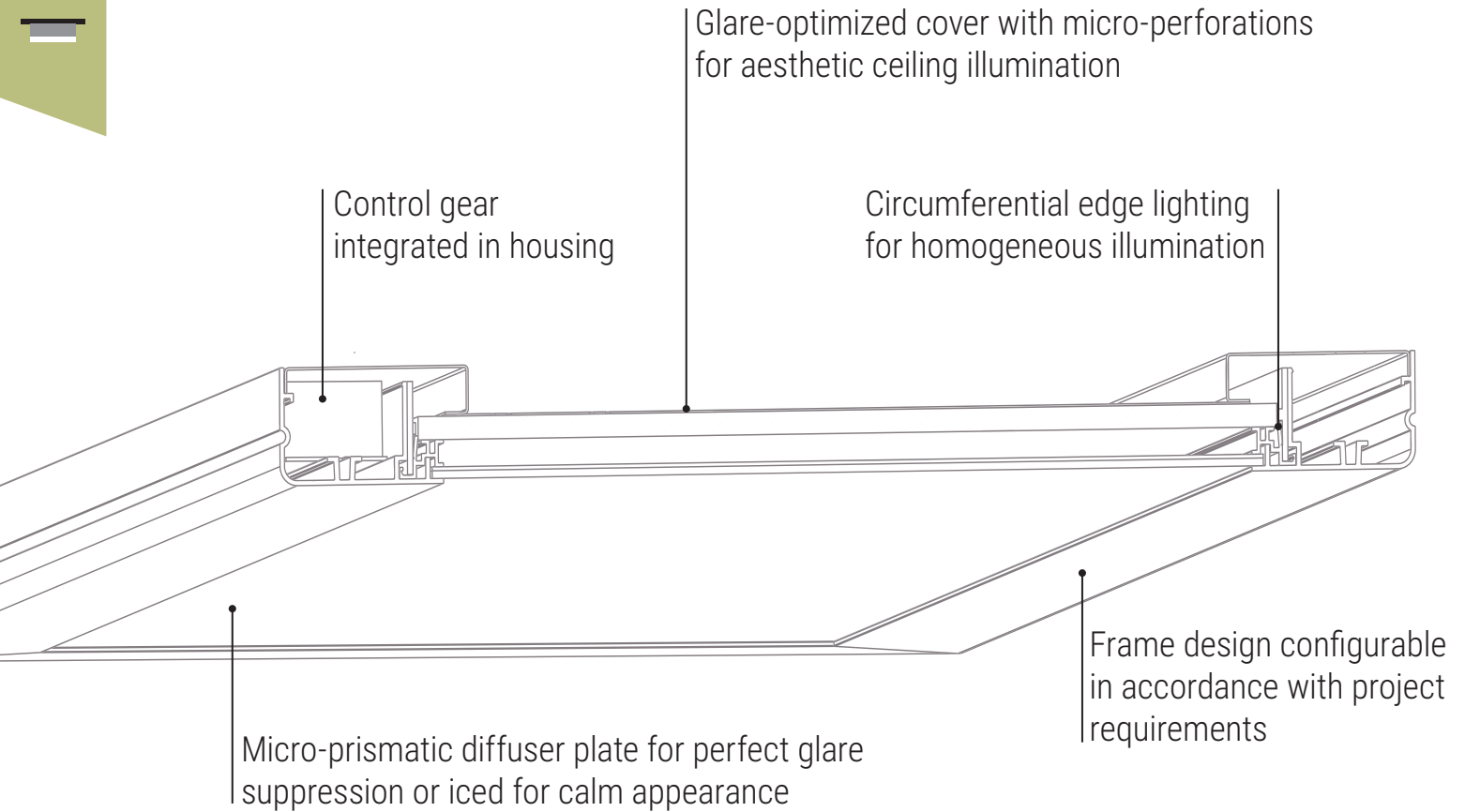


### Type overview

- ▶ VSAIG Diffuser, frosted direct distribution / indirect distribution for ceiling lighting  
Homogeneous light output through LED edge light injection
- ▶ VSAIMP Diffuser, micro-prismatic direct distribution / indirect distribution for ceiling lighting  
Homogeneous light output through LED edge light injection



## Surface-mounted luminaires



Edge feed enables low installation height



Easy clip mounting



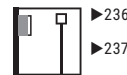
## Design concept for high-quality office lighting

- LED surface-mounted luminaire direct distribution
- Top marks for luminous efficacy and efficiency
- Also available in tunable white technology for Human Centric Lighting (HCL)
- Ultra-flat shape and light-weight appearance
- Homogeneous light output through LED edge light injection

Life service



50.000h  
L80/B10



LED A+ A 3000 CE IP 20

**Mounting:**

- Ceiling surface

**Housing:**

- Natural anodised aluminium frame, visible installation height 30mm

**Lighting technology VSAIG:**

- Diffuser, frosted; PMMA plastic
- Lighting characteristic direct distribution / indirect distribution for ceiling lighting

**Lighting technology VSAIMP:**

- Diffuser, micro-prismatic; PMMA plastic
- Lighting characteristic direct distribution / indirect distribution for ceiling lighting suited for VDU workstations,  $65^\circ < 3000 \text{ cd/m}^2$

**Lamp:**

- LED 50000h L80/B10
- CRI  $\geq 80$  / 4000K

**Lamp tunable white version**

- LED 50000h L80/B10
- CRI  $\geq 80$  / 3000K-6000K continuously adjustable

**Switching:**

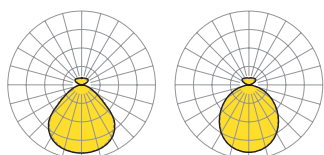
- The number of control units varies according to the version
- Electronic driver
- 230V 50Hz

**Miscellaneous:**

- Ceiling mounting brackets for simple clip assembly are included in the scope of delivery.

**Accessories:**

- Remote controls for commissioning and/or operation of master luminaires M5S5 must be ordered separately.
- Suitable controls for tunable white technology on request from dali@regiolux.de



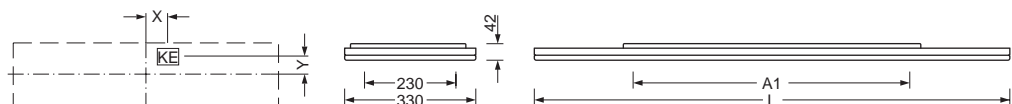
VSAIMP/1500 LED 6000 lm 840		VSAIG/1200 LED 4700 lm 840	
$\eta_{l,b}$	100%	$\eta_{l,b}$	100%
lm/W	106	lm/W	103
direct/indirect	84/16%	direct/indirect	84/16%
UGR lat./long.	18,0/18,1	UGR lat./long.	20,0/19,9
VDU	$65^\circ < 3000 \text{cd/m}^2$		



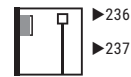
Diffuser micro prismatic

**Dimensions**

Type	Versions	LxBxH/DxH	A1	A4	KE X/Y
VSAI./1200	LED	1199 x 330 x 42	700	230	0/0
VSAI./1500	LED	1480 x 330 x 42	700	230	0/0







## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, frosted direct distribution / indirect distribution for ceiling lighting homogeneous light output through LED edge light injection</i>							
visula-VSAIG/1200	LED 4700lm 840	45	aen	ED	1199 x 330 x 42	4332 1014 115	7,50
				DALI	1199 x 330 x 42	4332 1016 615	7,60
	LED 3800lm 830-860	58	aen	DALI-DT8 <sup>1)</sup>	1199 x 330 x 42	4332 4016 915	7,60
visula-VSAIG/1500	LED 6000lm 840	56	aen	ED	1480 x 330 x 42	4335 1024 115	9,00
				DALI	1480 x 330 x 42	4335 1026 615	9,10
	LED 4800lm 830-860	71	aen	DALI-DT8 <sup>1)</sup>	1480 x 330 x 42	4335 4026 915	9,10
<i>Diffuser, micro-prismatic direct distribution / indirect distribution for ceiling lighting homogeneous light output through LED edge light injection</i>							
visula-VSAIMP/1200	LED 4700lm 840	45	aen	ED	1199 x 330 x 42	4332 1014 175	7,50
				DALI	1199 x 330 x 42	4332 1016 675	7,60
	LED 3800lm 830-860	58	aen	DALI-DT8 <sup>1)</sup>	1199 x 330 x 42	4332 4016 975	7,60
visula-VSAIMP/1500	LED 6000lm 840	56	aen	ED	1480 x 330 x 42	4335 1024 175	9,00
				DALI	1480 x 330 x 42	4335 1026 675	9,10
				M5S5 DALI	1480 x 330 x 42	4335 1028 175	9,10
	LED 4800lm 830-860	71	aen	DALI-DT8 <sup>1)</sup>	1480 x 330 x 42	4335 4026 975	9,10

<sup>1)</sup> Luminaire with tunable white technology suitable for Human Centric Lighting (HCL).

## Accessories

Type	Details	Item number	kg
<i>Electrical technology</i>			
Light Control	LC-OM MASTER REMOTE	Remote control for commissioning the DALIeco (M5S5) light control system	1 0,11
	PC KIT		
	LC-OM USER REMOTE		



# protection

## protection – the versatile luminaire with higher protection rating

By introducing the surface-mounted protection, Regiolux reacts to the increased demand for surface-mounted luminaires with higher protection ratings. With an IP54 protection rating, protection is perfectly suited for appliances in sensitive manufacturing areas. In addition to the high protection factor, the use of high quality parabolic louvres ensures glare reduction that fulfills the DIN-EN 12464-1 standard for VDU workstations above  $65^\circ < 1000\text{cd/m}^2$ . With such technical features, surface-mounted protection qualifies itself among other application areas for inspection and monitoring rooms and also laboratories. The robust sheet steel housing of protection has a durable cover of transparent acrylic, available with or without prisms. An opal acrylic cover is alternatively available.



### Type overview

- ▶ PRAG Diffuser, satined direct distribution
- ▶ PRAMP Diffuser, micro-prismatic direct distribution
- ▶ PRAO Diffuser, opal direct distribution
- ▶ PRAP Diffuser, prismatic direct distribution
- ▶ PRADS Parabolic louvre, highly specular direct distribution



# protection IPA LED

LED A++ CE IP 54

**Mounting:**

- Ceiling surface

**Housing:**

- Sheet steel housing

**Lighting technology PRAG:**

- Diffuser, satined; PMMA plastic
- Lighting characteristic direct distribution

**Lighting technology PRAMP:**

- Diffuser, micro-prismatic; PMMA plastic
- Lighting characteristic direct distribution

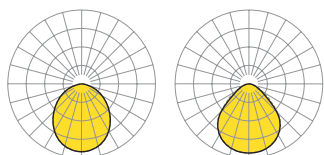
**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

protection IPA-PRAMP LED



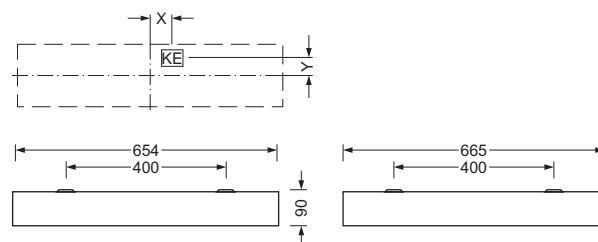
PRAG/ 660 IP54 LED  
5000 lm 840

PRAMP/ 660 IP54  
LED 5000 lm 840

$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	134	lm/W	133
direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	20,8/20,7	UGR lat./long.	18,3/18,7

**Dimensions**


Type	Versions	LxBxH/DxH	A1	A4	KE X/Y
PRA. 660	LED	665 x 654 x 90	400	400	0 / 15





## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, micro-prismatic direct distribution</i>							
protection IPA-PRAMP/ 660 IP54	LED 5000lm 840	37	vw	ED <sup>1)</sup>	665 x 654 x 90	6200 0014 153	7,90
				DALI <sup>1)</sup>	665 x 654 x 90	6200 0016 653	7,90
<i>Diffuser, satined direct distribution</i>							
protection IPA-PRAG/ 660 IP54	LED 5000lm 840	37	vw	ED <sup>2)</sup>	665 x 654 x 90	6200 0014 113	7,90
				DALI <sup>1)</sup>	665 x 654 x 90	6200 0016 613	7,90

<sup>1)</sup> : Suitable for use in cleanrooms.

<sup>2)</sup> : This luminaire has been tested by the Fraunhofer Institute IPA.  Suitable for use in cleanrooms.

## Accessories

Type	Colour	Material	Details	Item number	kg
<i>Mounting</i>					
Tool	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1 0,08

# protection LED



LED A+ 3000 50000h CE IP 54

**Mounting:**

- Ceiling surface

**Housing:**

- Sheet steel housing

**Lighting technology PRAMP:**

- Diffuser, micro-prismatic; PMMA plastic
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 3000 cd/m<sup>2</sup>

**Lighting technology PRAO:**

- Diffuser, opal; PMMA plastic
- Lighting characteristic direct distribution

**Lighting technology PRAG:**

- Diffuser, satined; PMMA plastic
- Lighting characteristic direct distribution

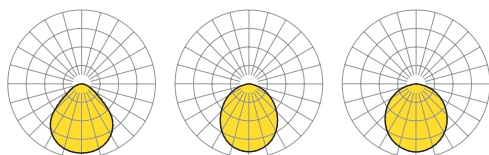
**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

protection-PRAMP LED



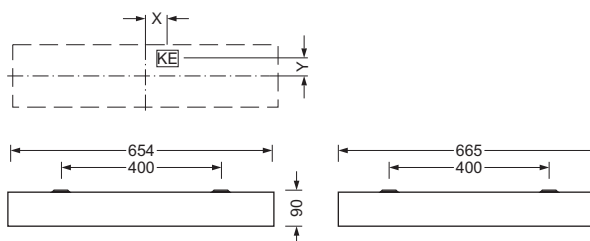
PRAMP 660 IP54 LED 5000 lm 840		PRAG 660 IP54 LED 5000 lm 840		PRAO 660 IP54 LED 4700 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	133	lm/W	134	lm/W	125
direct/indirect	100/0%	direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	18,3/18,7	UGR lat./long.	20,8/20,7	UGR lat./long.	21,2/21,1
VDU	65° < 3000cd/m <sup>2</sup>				



The prismatic diffuser frame is removed with an extractor supplied with the luminaire.

## Dimensions

Type	Versions	LxBxH/DxH	A1	A4	KE X/Y
PRA. 660	LED	665 x 654 x 90	400	400	0 / 15







## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, micro-prismatic direct distribution</i>							
protection-PRAMP/ 660 IP54	LED 5000lm 840	37	vw	ED	665 x 654 x 90	6200 0014 150	7,90
				DALI	665 x 654 x 90	6200 0016 650	7,90
<i>Diffuser, opal direct distribution</i>							
protection-PRAO/ 660 IP54	LED 4700lm 840	37	vw	ED	665 x 654 x 90	6200 0014 180	7,90
				DALI	665 x 654 x 90	6200 0016 680	7,90
<i>Diffuser, satined direct distribution</i>							
protection-PRAG/ 660 IP54	LED 5000lm 840	37	vw	ED	665 x 654 x 90	6200 0014 110	7,90
				DALI	665 x 654 x 90	6200 0016 610	7,90

## Accessories

	Type	Colour	Material	Details	Item number		kg
<i>Mounting</i>							
Tool	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1	0,08

# protection T5



A+

**Mounting:**

- Ceiling surface

**Housing:**

- Sheet steel housing

**Lighting technology PRAO:**

- Diffuser, opal; PMMA plastic
- Lighting characteristic direct distribution

**Lighting technology PRAP:**

- Diffuser, prismatic; PMMA plastic
- Lighting characteristic direct distribution

**Lighting technology PRADS:**

- Parabolic louvre, highly specular; aluminium reflectivity enhanced
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1000 cd/m<sup>2</sup>

**Lamp:**

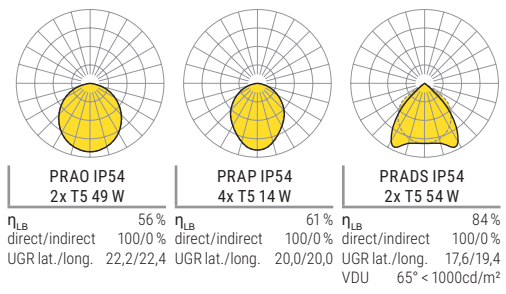
- For fitting with lamp(s) T5

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz

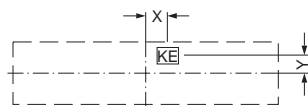


The prismatic diffuser frame is removed with an extractor supplied with the luminaire.

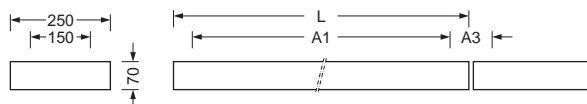


## Dimensions

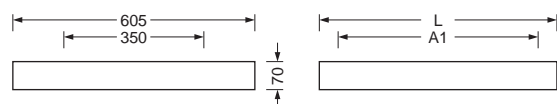
Type	Versions	LxBxH/DxH	A1	A3	A4	KE X/Y
PRA.	T5 2x28, 54 W	1233 x 250 x 70	1100	135	150	55 / 100
	T5 2x35, 49, 80 W	1533 x 250 x 70	1400	135	150	55 / 100
	T5 4x14, 24 W	594 x 605 x 70	500	-	350	0 / 0



PRA. 2x ...



PRA. 4x ...






## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, opal direct distribution</i>							
protection-PRAO IP54	T5 2x28/54W	116	vw	ECG	1233 x 250 x 70	6250 2944 180	4,53
	T5 2x35/49W	104	vw	ECG	1533 x 250 x 70	6250 2964 180	5,53
	T5 4x14W	64	vw	ECG	594 x 605 x 70	6250 4144 180	5,07
<i>Diffuser, prismatic direct distribution</i>							
protection-PRAP IP54	T5 2x28/54W	116	vw	ECG	1233 x 250 x 70	6250 2944 190	7,54
	T5 2x35/49W	104	vw	ECG	1533 x 250 x 70	6250 2964 190	5,63
	T5 4x14W	64	vw	ECG	594 x 605 x 70	6250 4144 190	5,17
<i>Parabolic louvre, highly specular direct distribution</i>							
protection-PRADS IP54	T5 2x28/54W	116	vw	ECG	1233 x 250 x 70	6250 2944 170	5,29
	T5 2x35/49W	104	vw	ECG	1533 x 250 x 70	6250 2964 170	6,46
	T5 4x14W	64	vw	ECG	594 x 605 x 70	6250 4144 170	6,43
protection-PRADS-ESG IP54	T5 2x28/54W	116	vw	ECG	1233 x 250 x 70	6270 2944 170	6,58
	T5 2x35/49W	104	vw	ECG	1533 x 250 x 70	6270 2964 170	8,05
	T5 4x14W	64	vw	ECG	594 x 605 x 70	6270 4144 170	8,04

## Accessories

Type	Colour	Material	Details	Item number		
<i>Mounting</i>						
Tool	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1 0,08







# peanut

## peanut - transparent lightness

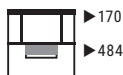
With peanut, light becomes an element for design. Whatever objects you are planning - offices, school or lecture rooms, hospitals or shops - the whole range of lighting tasks can be solved with just one luminaire family: peanut. All peanut variations have one feature in common: a well-shaped polycarbonate housing with patented labyrinth profile and fastening clips made of V2A stainless steel. The all-round illuminated housing assures an indirect light component for illuminating the ceiling area and the closed and easy-to-clean surface an optimal luminaire maintenance factor. The complete lighting technology is entirely integrated within the closed housing, giving protection against soiling. We are also able to create a wide range of further variations, including optical and switching variations on request.



## Type overview

- ▶ corridor-AGI Diffuser, matt direct/indirect distribution
- ▶ office-AZI Diffuser, clear, with parabolic micro-cell louvre direct/indirect distribution
- ▶ school-ALR Diffuser, clear, with cross blade louvre direct distribution
- ▶ industry-A Diffuser, clear direct/indirect distribution
- ▶ board-AW Diffuser, translucent, with highly specular wall washer direct asymmetrical distribution with brightening in front of the wall
- ▶ gallery-AWF Diffuser, translucent, with highly specular wall washer direct asymmetrical distribution

# peanut LED



LED A+ CE IP 55

**Mounting:**

- Ceiling surface
- Mounting rail

**Housing:**

- Polycarbonate, injection moulded, transparent

**Lighting technology corridor-AGI:**

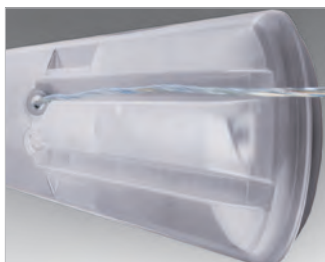
- Diffuser, matt; PC plastic
- Lighting characteristic direct/indirect distribution

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz



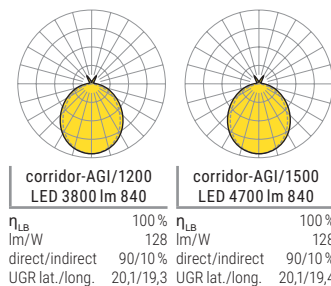
Integrated cable ducts in the top of the housing facilitate simple and unobtrusive through-wiring for light runs.



Due to the material-free labyrinth seal the housing is transparent even around the joint.

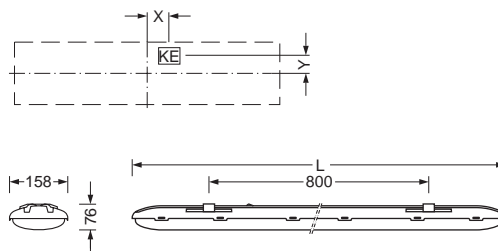


The diffuser is securely closed and opened at the intended points without clips.



**Dimensions**

Type	Versions	LxBxH/DxH	A1	KE X/Y
corridor-A./1200	LED	1260 x 158 x 76	800	0 / 0
corridor-A./1500	LED	1563 x 158 x 76	800	0 / 0



**Products**

Type	Lamps	P <sub>95</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, matt direct/indirect distribution</i>							
corridor-AGI/1200	LED 3800lm 840	29	tz	ED	1260 x 158 x 76	5261 0044 180	2,80
		29	tz	DALI	1260 x 158 x 76	5261 0046 680	2,80
corridor-AGI/1500	LED 4700lm 840	37	tz	ED	1563 x 158 x 76	5261 0034 180	3,40
		37	tz	DALI	1563 x 158 x 76	5261 0036 680	3,40





# peanut T5



IP 55

**Mounting:**

- Ceiling surface
- Mounting rail

**Housing:**

- Polycarbonate, injection moulded, transparent

**Lighting technology corridor-AGI:**

- Diffuser, matt; PC plastic
- Lighting characteristic direct/indirect distribution

**Lighting technology office-AZI:**

- Diffuser, clear, with parabolic micro-cell louvre; PC plastic reflectivity enhanced

- Lighting characteristic direct/indirect distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology school-ALR:**

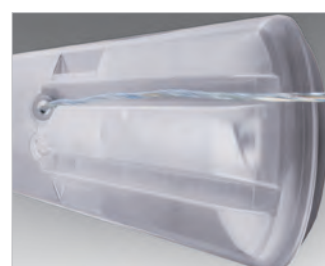
- Diffuser, clear, with cross blade louvre; PC plastic
- Lighting characteristic direct distribution

**Lamp:**

- For fitting with lamp(s) T5

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz



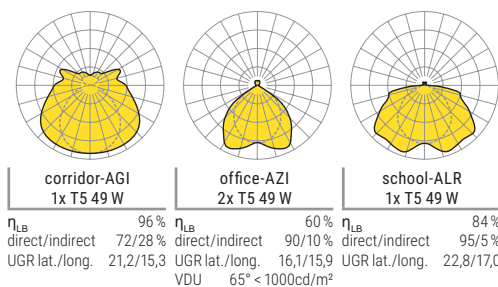
Integrated cable ducts in the top of the housing facilitate simple and unobtrusive through-wiring for light runs.



Due to the material-free labyrinth seal the housing is transparent even around the joint.

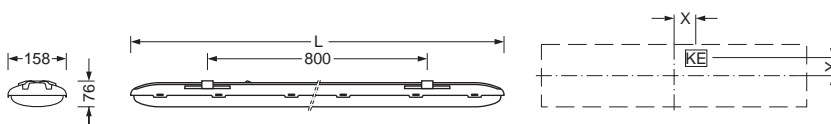


The diffuser is securely closed and opened at the intended points without clips.




## Dimensions

Type	Versions	LxBxH/DxH	A1	KE X/Y
corridor-A.	T5 1x28, 54 W	1260 x 158 x 76	800	0/0
	T5 1x35, 49, 80 W	1563 x 158 x 76	800	0/0
	T5 2x28, 54 W	1260 x 158 x 76	800	0/0
	T5 2x35, 49, 80 W	1563 x 158 x 76	800	0/0
office-A.	T5 2x35, 49, 80 W	1563 x 158 x 76	800	0/0
school-A.	T5 1x35, 49, 80 W	1563 x 158 x 76	800	0/0





## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, matt direct/indirect distribution</i>							
corridor-AGI	T5 1x28W	30	tz	ECG	1260 x 158 x 76	5261 1284 180	2,20
	T5 1x35W	38	tz	ECG	1563 x 158 x 76	5261 1354 180	3,00
	T5 1x49W	52	tz	ECG	1563 x 158 x 76	5261 1494 180	3,00
	T5 2x28W	60	tz	ECG	1260 x 158 x 76	5261 2284 180	2,20
	T5 2x35W	76	tz	ECG	1563 x 158 x 76	5261 2354 180	3,00
	T5 2x49W	104	tz	ECG	1563 x 158 x 76	5261 2494 180	3,00
<i>Diffuser, clear, with cross blade louvre direct distribution</i>							
school-ALR	T5 1x35W	38	tp	ECG	1563 x 158 x 76	5261 1354 110	4,10
	T5 1x49W	52	tp	ECG	1563 x 158 x 76	5261 1494 110	4,10
	T5 1x80W	85	tp	ECG	1563 x 158 x 76	5261 1804 110	4,10
<i>Diffuser, clear, with parabolic micro-cell louvre direct/indirect distribution</i>							
office-AZI	T5 2x35W	76	tp	ECG	1563 x 158 x 76	5261 2354 170	3,66
	T5 2x49W	104	tp	ECG	1563 x 158 x 76	5261 2494 170	3,66





# peanut T5



IP 55

**Mounting:**

- Ceiling surface
- Mounting rail

**Housing:**

- Polycarbonate, injection moulded, transparent

**Lighting technology industry-A:**

- Diffuser, clear; PC plastic
- Lighting characteristic direct/indirect distribution

**Lighting technology board-AW:**

- Diffuser, clear, with highly specular wall washer; PC plastic
- Lighting characteristic direct asymmetrical distribution with brightening in front of the wall

**Lighting technology gallery-AWF:**

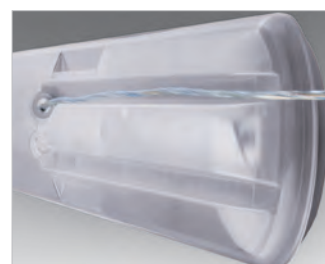
- Diffuser, clear, with highly specular wall washer; PC plastic
- Lighting characteristic direct asymmetrical distribution

**Lamp:**

- For fitting with lamp(s) T5

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz



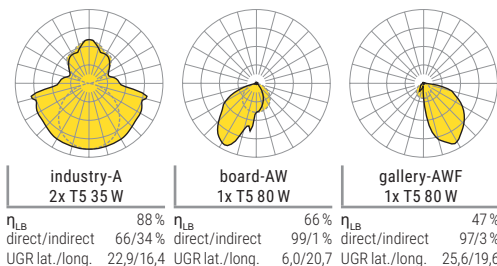
Integrated cable ducts in the top of the housing facilitate simple and unobtrusive through-wiring for light runs.



Due to the material-free labyrinth seal the housing is transparent even around the joint.

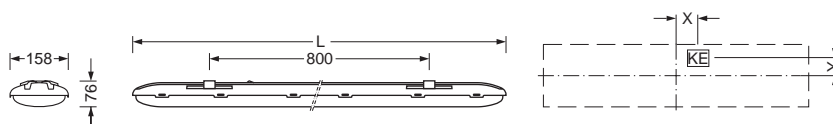


The diffuser is securely closed and opened at the intended points without clips.




## Dimensions

Type	Versions	LxBxH/DxH	A1	KE X/Y
board-A.	T5 1x35, 49, 80 W	1563 x 158 x 76	800	0/0
gallery-A.	T5 1x35, 49, 80 W	1563 x 158 x 76	800	0/0
industry-A.	T5 1x28, 54 W	1260 x 158 x 76	800	0/0
	T5 1x35, 49, 80 W	1563 x 158 x 76	800	0/0
	T5 2x28, 54 W	1260 x 158 x 76	800	0/0
	T5 2x35, 49, 80 W	1563 x 158 x 76	800	0/0





## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, clear direct/indirect distribution</i>							
industry-A	T5 1x28W	30	tp	ECG	1260 x 158 x 76	5261 1284 100	2,20
	T5 1x35W	38	tp	ECG	1563 x 158 x 76	5261 1354 100	3,00
	T5 1x49W	52	tp	ECG	1563 x 158 x 76	5261 1494 100	3,00
	T5 2x28W	60	tp	ECG	1260 x 158 x 76	5261 2284 100	2,20
	T5 2x35W	76	tp	ECG	1563 x 158 x 76	5261 2354 100	3,00
	T5 2x49W	104	tp	ECG	1563 x 158 x 76	5261 2494 100	3,00
<i>Diffuser, clear, with highly specular wall washer direct asymmetrical distribution</i>							
gallery-AWF	T5 1x49W	52	tp	ECG	1563 x 158 x 76	5261 1494 140	3,88
	T5 1x80W	85	tp	ECG	1563 x 158 x 76	5261 1804 140	3,88
<i>Diffuser, clear, with highly specular wall washer direct asymmetrical distribution with brightening in front of the wall</i>							
board-AW	T5 1x35W	38	tp	ECG	1563 x 158 x 76	5261 1354 190	3,50
	T5 1x49W	52	tp	ECG	1563 x 158 x 76	5261 1494 190	3,25
	T5 1x80W	85	tp	ECG	1563 x 158 x 76	5261 1804 190	3,25







# stail

## stail – technical requirement and minimisation

A visible construction height of just 26 mm, an integrated double parabolic louvre with low-section cross blades – these are the impressive features of this slim beauty. Further characteristics are an all-round housing fringe and the severely miniaturised louvre. These lend the luminaire a really individual appearance. With its linear and reduced design, stail blends harmoniously into widely differing interior spaces. Because the luminaire housing protrudes upwards, there is a distance to the ceiling so that an attractive light aura is created through light emission openings in the luminaire housing, giving the luminaire a floating impression. The undesired 'cavern effect' in a room that often occurs with more simple luminaires is avoided with stail. And the connector designed for the luminaire spacing in the light run, conceals the through-wiring, maintaining the filigree and floating appearance of the ceiling mounting.



### Type overview

- ▶ SAX Micro-parabolic louvre, silky matt direct distribution
- ▶ SAD Micro-parabolic louvre, highly specular direct distribution

# stail LED



LED 1500 CE IP 20

**Mounting:**

- Ceiling surface
- Mounting rail

**Housing:**

- Sheet steel housing, visible construction height 26 mm

**Lighting technology SAX:**

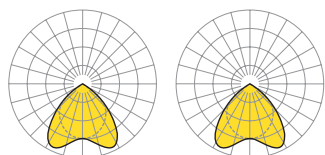
- Micro-parabolic louvre, silky matt MIRO-SILVER ®
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1500 cd/m<sup>2</sup>

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Switching:**

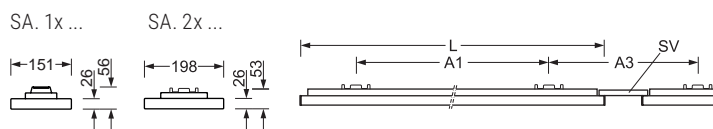
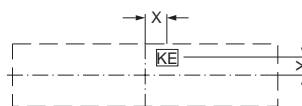
- 1 Control gear
- Electronic driver
- 230V 50Hz



SAX/1200-1 LED 3200 lm 840		SAX/1500-1 LED 4000 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	96	lm/W	96
direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	20,7/20,0	UGR lat./long.	20,7/19,9
VDU	65° < 1500cd/m <sup>2</sup>	VDU	65° < 1500cd/m <sup>2</sup>

**Dimensions**

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
SA./1200-1	LED	1240 x 151 x 56	900	442	0 / 30
SA./1200-2	LED	1240 x 198 x 56	1100	242	0 / 50
SA./1500-1	LED	1540 x 151 x 56	1200	442	0 / 30
SA./1500-2	LED	1540 x 198 x 56	1400	242	0 / 50



**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Micro-parabolic louvre, silky matt direct distribution</i>							
stail-SAX/1200-1	LED 3200lm 840	34	vw	ED	1240 x 151 x 56	6032 1024 160	3,35
				DALI	1240 x 151 x 56	6032 1026 660	3,45
stail-SAX/1200-2	LED 6500lm 840	69	vw	ED	1240 x 198 x 56	6032 2024 160	4,80
				DALI	1240 x 198 x 56	6032 2026 660	4,80
stail-SAX/1500-1	LED 4000lm 840	42	vw	ED	1540 x 151 x 56	6032 3024 160	4,10
				DALI	1540 x 151 x 56	6032 3026 660	4,20
stail-SAX/1500-2	LED 8100lm 840	86	vw	ED	1540 x 198 x 56	6032 4024 160	5,85
				DALI	1540 x 198 x 56	6032 4026 660	5,85

**Accessories**

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Through-wiring cable	stail -DVA-5G 1500	ws	H05VV-F 5x1.5mm <sup>2</sup> for stail SAD, SAX	6031 9000 100	1 0,16
<i>Structure</i>					
Luminaire connector	stail -SV 100	vw	for stail	6030 1000 100	1 0,18





# stail T5



**Mounting:**

- Ceiling surface
- Mounting rail

**Housing:**

- Sheet steel housing, visible construction height 26 mm

**Lighting technology SAD:**

- Micro-parabolic louvre, highly specular MIRO-SILVER®
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1000 cd/m²

**Lighting technology SAX:**

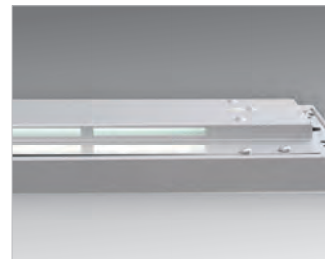
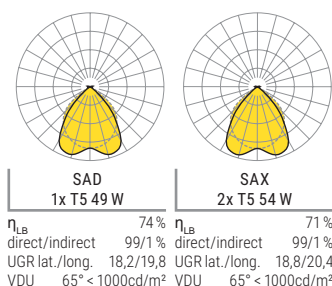
- Micro-parabolic louvre, silky matt MIRO-SILVER®
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1000 cd/m²

**Lamp:**

- For fitting with lamp(s) T5

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz



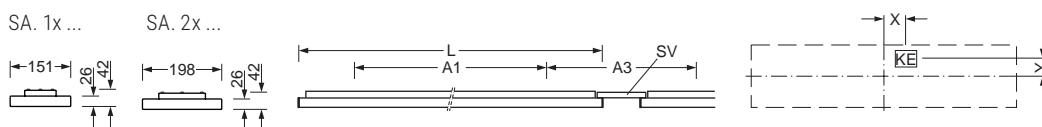
Light emission apertures on the top of the luminaire create an attractive glow around the luminaire, thus preventing the 'cavern effect'.



The light run connector can be used as a shroud for the through-wiring of surface-mounted luminaires in continuous light runs.


## Dimensions

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
SA.	T5 1x28, 54 W	1240 x 151 x 42	1100	242	0 / 30
	T5 1x35, 49, 80 W	1540 x 151 x 42	1400	242	0 / 30
	T5 2x28, 54 W	1240 x 198 x 42	1100	242	0 / 53
	T5 2x35, 49, 80 W	1540 x 198 x 42	1400	242	0 / 53







## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Micro-parabolic louvre, highly specular direct distribution</i>							
stail-SAD	T5 1x28/54W	58	vw	ECG	1240 x 151 x 42	6032 1944 170	3,50
			wa	ECG	1240 x 151 x 42	6032 1944 175	3,50
	T5 1x35/49/80W	52	vw	ECG	1540 x 151 x 42	6032 1954 170	4,00
			wa	ECG	1540 x 151 x 42	6032 1954 175	4,00
	T5 2x28/54W	116	vw	ECG	1240 x 198 x 42	6032 2944 170	3,90
			wa	ECG	1240 x 198 x 42	6032 2944 175	3,90
	T5 2x35/49W	104	vw	ECG	1540 x 198 x 42	6032 2964 170	4,40
			wa	ECG	1540 x 198 x 42	6032 2964 175	4,40
<i>Micro-parabolic louvre, silky matt direct distribution</i>							
stail-SAX	T5 1x28/54W	58	vw	ECG	1240 x 151 x 42	6032 1944 160	3,50
			wa	ECG	1240 x 151 x 42	6032 1944 165	3,50
	T5 1x35/49/80W	52	vw	ECG	1540 x 151 x 42	6032 1954 160	4,00
			wa	ECG	1540 x 151 x 42	6032 1954 165	4,00
	T5 2x28/54W	116	vw	ECG	1240 x 198 x 42	6032 2944 160	3,90
			wa	ECG	1240 x 198 x 42	6032 2944 165	3,90
	T5 2x35/49W	104	vw	ECG	1540 x 198 x 42	6032 2964 160	4,40
			wa	ECG	1540 x 198 x 42	6032 2964 165	4,40

## Accessories

Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>						
Through-wiring cable	stail -DVA-5G 1500	ws	H05VV-F	5x1.5mm <sup>2</sup> for stail SAD, SAX	6031 9000 100	1 0,16
<i>Structure</i>						
Luminaire connector	stail -SV 100	vw	St	for stail	6030 1000 100	1 0,18
	stail -SV 100	wa	St	for stail	6030 1000 105	1 1,00







# hokal

## hokal – universal light run system

The world in which we live is founded upon fundamental forms of symmetry. The aesthetic quality of the hokal luminaire family depends upon the specification of a clear, concise design. And with an almost square cross-section, Regiolux has managed to capture the essence of stylish modernity and outstanding technical quality. The hokal luminaire family in the form of a light channel is, as expected, a universally designed luminaire concept.

In terms of functionality you can plan with the wide-ranging spectrum that is typical of a Regiolux luminaire family. And applications are also accordingly widely based. Recessed luminaires equipped with either one or two lamps are available for cut-out ceilings and panel ceilings.

Lighting design with surface-mounted and suspended versions, either with direct/indirect or purely direct light distribution can be implemented according to needs and with cost efficiency in mind, and an emergency light version is also available for safety lighting.

Control components and sensors in master luminaires are just some of the possibilities for exploiting energy saving potential. Diverse optics help to achieve an optimal illuminated atmosphere, so that viewing comfort, visual performance and safety as evaluation criteria for lighting in various types of rooms always achieve top marks.



### Type overview

- ▶ HLAX Micro-parabolic louvre, silky matt direct distribution
- ▶ HLAG Diffuser, satined direct distribution
- ▶ HLAD Micro-parabolic louvre, highly specular direct distribution



LED A+ 1500 CE IP 20

**Mounting:**

- Ceiling surface
- Mounting rail
- Suspended

**Housing:**

- Sheet steel housing

**Lighting technology HLAX:**

- Micro-parabolic louvre, silky matt MIRO-SILVER ®
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1500 cd/m²

**Lighting technology HLAG:**

- Diffuser, satined; PC plastic
- Lighting characteristic direct distribution

**Lamp:**

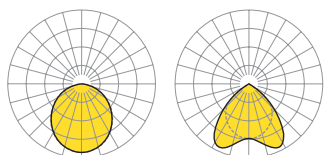
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

**Accessories:**

- Required accessories: end faces, connectors and through-wiring to be ordered separately according to luminaire arrangements.



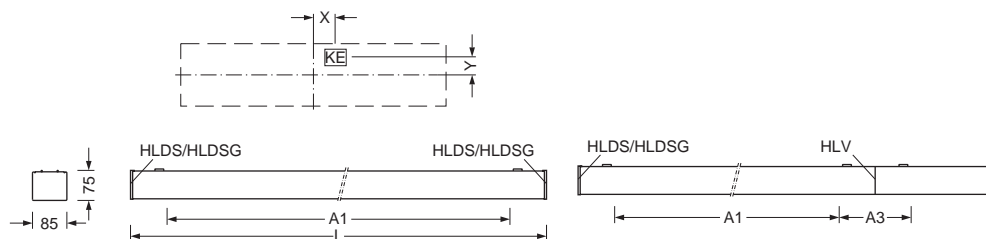
HLAG/1200 LED 2400 lm 840		HLAX/1500 LED 4000 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	104	lm/W	96
direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	24,7/24,8	UGR lat./long.	20,7/19,9
	VDU		65° < 1500cd/m²

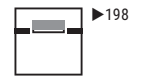


Luminaires are supplied with open ends. End faces and connectors must be ordered separately.

**Dimensions**

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
HLA./1200	LED	1176 x 85 x 75	1000	176	0 / 0
HLA./1500	LED	1476 x 85 x 75	1300	176	0 / 0






hokal-HLAX LED

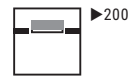


## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	 kg
<i>Diffuser, satined direct distribution</i>							
hokal-HLAG/1200	LED 2400lm 840	23	vw	ED	1176 x 85 x 75	6050 1024 180	3,10
				DALI	1176 x 85 x 75	6050 1026 680	3,10
hokal-HLAG/1500	LED 3600lm 840	36	vw	ED	1476 x 85 x 75	6050 3024 180	3,70
				DALI	1476 x 85 x 75	6050 3026 680	3,70
<i>Micro-parabolic louvre, silky matt direct distribution</i>							
hokal-HLAX/1200	LED 3200lm 840	34	vw	ED	1176 x 85 x 75	6050 1024 160	2,91
				DALI	1176 x 85 x 75	6050 1026 660	2,99
hokal-HLAX/1500	LED 4000lm 840	42	vw	ED	1476 x 85 x 75	6050 3024 160	3,50
				DALI	1476 x 85 x 75	6050 3026 660	3,58



# hokal T5



A+ A 1000 IP 20

**Mounting:**

- Ceiling surface
- Mounting rail
- Suspended

**Housing:**

- Sheet steel housing

**Lighting technology HLAG:**

- Diffuser, satined; PC plastic
- Lighting characteristic direct distribution

**Lighting technology HLAD:**

- Micro-parabolic louvre, highly specular MIRO-SILVER ®
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1000 cd/m²

**Lighting technology HLAX:**

- Micro-parabolic louvre, silky matt MIRO-SILVER ®
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1000 cd/m²

**Lamp:**

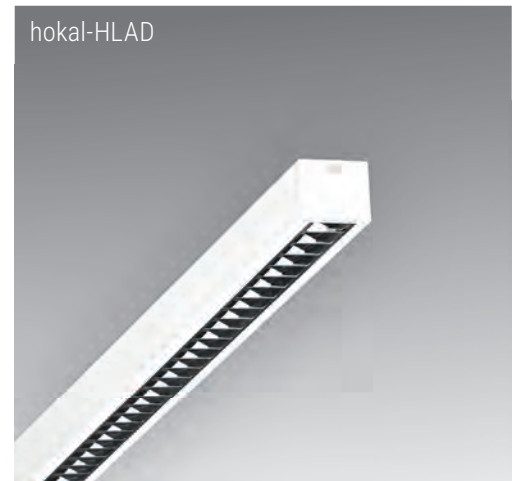
- For fitting with lamp(s) T5

**Switching:**

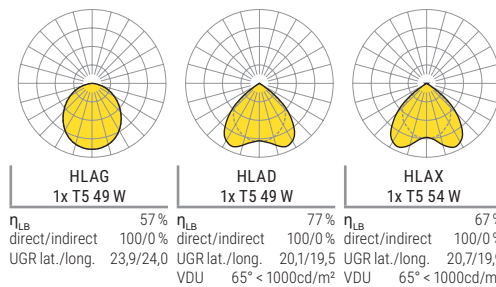
- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Accessories:**

- Required accessories: end faces, connectors and through-wiring to be ordered separately according to luminaire arrangements.

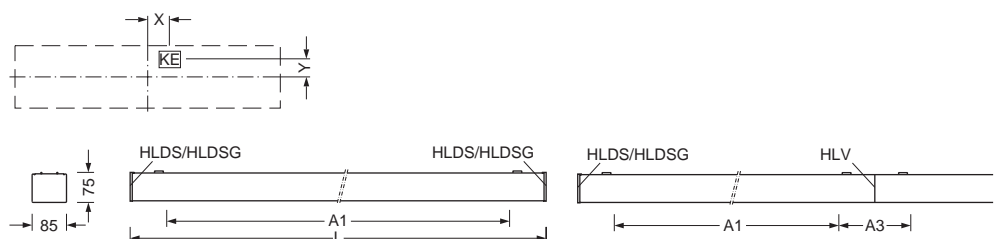


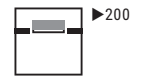
Luminaires are supplied with open ends. End faces and connectors must be ordered separately.




## Dimensions

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
HLA.	T5 1x28, 54 W	1176 x 85 x 75	1000	176	0 / 0
	T5 1x35, 49, 80 W	1476 x 85 x 75	1300	176	0 / 0



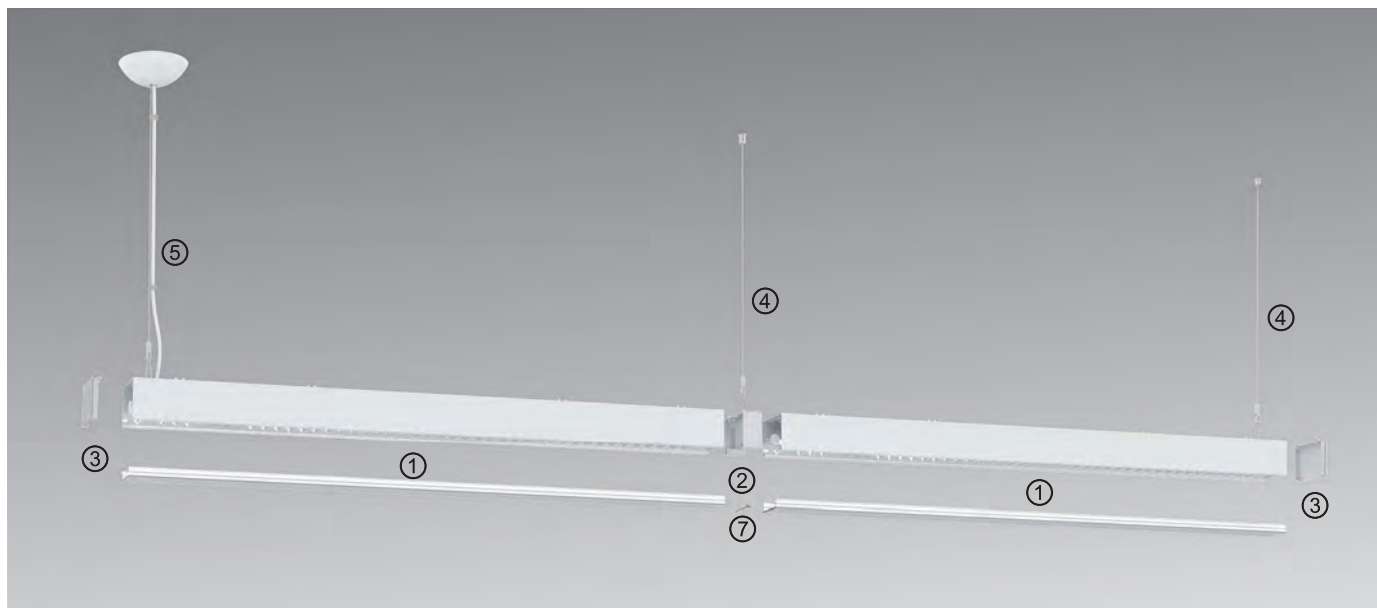


## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, satined direct distribution</i>							
hokal-HLAG	T5 1x28/54W	58	vw	ECG	1176 x 85 x 75	6050 1944 180	2,56
				ECG DALI	1176 x 85 x 75	6050 1946 680	2,56
	T5 1x35/49/80W	52	vw	ECG	1476 x 85 x 75	6050 1954 180	3,11
				ECG DALI	1476 x 85 x 75	6050 1956 680	3,11
<i>Micro-parabolic louvre, highly specular direct distribution</i>							
hokal-HLAD	T5 1x28/54W	58	vw	ECG	1176 x 85 x 75	6050 1944 170	2,54
				ECG DALI	1176 x 85 x 75	6050 1946 670	2,54
	T5 1x35/49/80W	52	vw	ECG	1476 x 85 x 75	6050 1954 170	3,09
				ECG DALI	1476 x 85 x 75	6050 1956 670	3,09
<i>Micro-parabolic louvre, silky matt direct distribution</i>							
hokal-HLAX	T5 1x28/54W	58	vw	ECG	1176 x 85 x 75	6050 1944 160	2,54
				ECG DALI	1176 x 85 x 75	6050 1946 660	2,54
	T5 1x35/49/80W	52	vw	ECG	1476 x 85 x 75	6050 1954 160	3,09
				ECG DALI	1476 x 85 x 75	6050 1956 660	3,09



# hokal accessories



- ① hokal with FLVWR through-wiring
- ② Luminaire connector HLV
- ③ Luminaire end faces kit HLDS or HLDSG
- ④ Luminaire suspension SAY-KS plus counter-balance weight SAG-EVG
- ⑤ Luminaire suspension incl. electrical power feed SAYD-KL
- ⑦ Diffuser connector GSL

## Accessories

	Type	Colour	Material	Details	Item number		
<i>Design</i>							
Diffuser connector	GSL -1	tz	PC	Protection strip for 1/.. hokal-HL..G, procube CU..G	8460 1001 100	1	0,06
Kit of end faces	hokal -HLDS -1	vw	Al	für hokal-HLA..., hokal-HLH..	6058 1015 100	2	0,12
		wa	Al	für hokal-HLA..., hokal-HLH..	6058 1015 105	2	0,12
	hokal -HLDSG -1	vw	Al	für hokal-HLAG T5 1x.., -1 LED; hokal-HLHG. T5 1x.., -1 LED	6058 1025 100	2	0,12
		wa	Al	für hokal-HLAG T5 1x.., -1 LED; hokal-HLHG. T5 1x.., -1 LED	6058 1025 105	2	0,12
<i>Electrical technology</i>							
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm² for light run-capable LEDT5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1	0,16
<i>Mounting</i>							
Y-wire suspension	SAG 2	ws	Polymer	Strain relief WAGO terminal for suspension of surface-mounted luminaires	9593 2000 100	1	0,15
	SAY -KS 120	me	Mix	Wire D=1mm, L=2200mm, for cubus, hokal, procube, lens line, lens basic, LED T5	9511 3200 101	1	0,06
	SAYE -KL 120 3x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 3x0,75mm² for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3237 121	1	0,25
	SAYE -KL 120 5x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 5x0,75mm² for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3257 121	1	0,36
Counter-balance weight SAG -EVG		sw	Mix	Electronic operating device weight compensation for cubus T5 1x, 2x, T8 1x, lens basic 1x, hokal HLA. T5, procube CUA. T5	9593 4350 100	1	0,35
Tool	SH 30	sw	Polymer	Suction holder, d=30mm for smooth diffuser covers, narrow design	9203 0030 100	1	0,06
	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1	0,08
<i>Structure</i>							
Luminaire connector	hokal -HLV -1	vw	St	for hokal HLH, HLA	6058 1000 100	1	0,13









# procube

## procube – luminaire family with compact dimensions

High performance microparabolic louvres with low-section cross blades characterise the family procube. This has made it possible to design a particularly flat product with small dimensions. So the luminaires remain distinctly efficient despite the micro-louvre, reflection-amplifying aluminium is used. The efficiency of more than 90% is possible because the application of a purest silver coating with a reflection ratio of 98% over the whole light spectrum. Increased flexibility enhances the versatility of the procube. With connectors the individual luminaires can be combined to form light runs, or when using special form sections they can be turned into entire light landscapes. For a further increase in efficiency the master luminaires have integrated control components and sensors. Especially elegant in appearance is the wall washing procube in exhibitions and schools. With the darklight louvres as well as with the silk matt louvres the luminaires achieve an anti-glare efficiency according to DIN-EN 12464-1 of more than  $65^\circ < 1000 \text{ cd/m}^2$ . Due to the lack of interference the optical impression of the micro-parabolic louvres are a delight.



### Type overview

- ▶ CUAX Micro-parabolic louvre, silky matt direct distribution
- ▶ CUAWF Fresnel lens direct asymmetrical distribution
- ▶ CUAG Diffuser, satined direct distribution
- ▶ CUAD Micro-parabolic louvre, highly specular direct distribution

# procube LED



LED A+ 1500 CE IP 20

### Mounting:

- Ceiling surface
- Mounting rail
- Suspended

### Housing:

- Sheet steel housing

### Lighting technology CUAX:

- Micro-parabolic louvre, silky matt MIRO-SILVER ®
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1500 cd/m²

### Lighting technology CUAWF:

- Fresnel lens; PMMA plastic
- Lighting characteristic direct asymmetrical distribution

### Lamp:

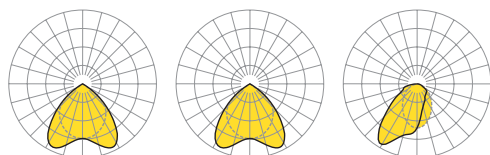
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

### Switching:

- 1 Control gear
- Electronic driver
- 230V 50Hz

### Accessories:

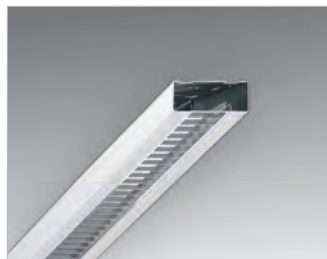
- Remote controls for commissioning and/or operation of master luminaires M5S5 must be ordered separately.
- Required accessories: end faces, connectors and through-wiring separately to be ordered according to luminaire arrangements.



CUAX/1200-1 LED 3200 lm 840	CUAX/1500-1 LED 4000 lm 840	CUAWF/1500-1 LED 3700 lm 840			
$\eta_{LB}$ lm/W	100% 96	$\eta_{LB}$ lm/W	100% 96	$\eta_{LB}$ lm/W	100% 95
direct/indirect	100/0%	direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	20,7/20,0	UGR lat./long.	20,7/19,9	UGR lat./long.	23,4/25,8
VDU	65° < 1500cd/m²	VDU	65° < 1500cd/m²		



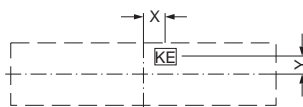
The master luminaires M5S5 are equipped with light and presence sensors and a control unit.



Luminaires are supplied with open ends. End faces and connectors must be ordered separately.

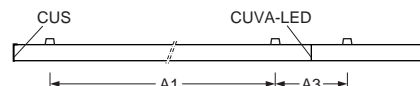
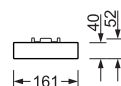
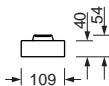
## Dimensions

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
CUA./1200-1	LED	1179 x 109 x 54	900	276	0 / 33
CUA./1200-2	LED	1179 x 161 x 54	1000	176	0 / 56
CUA./1500-1	LED	1479 x 109 x 54	1200	276	0 / 33
CUA./1500-2	LED	1479 x 161 x 54	1300	176	0 / 56



CUA. 1x ...

CUA. 2x ...





Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Micro-parabolic louvre, silky matt direct distribution</i>							
procube-CUAX/1200-1	LED 3200lm 840	34	vw	ED	1179 x 109 x 54	6040 1024 160	2,59
				DALI	1179 x 109 x 54	6040 1026 660	2,66
procube-CUAX/1200-2	LED 6500lm 840	69	vw	ED	1179 x 161 x 54	6040 2024 160	3,30
				DALI	1179 x 161 x 54	6040 2026 660	3,30
procube-CUAX/1500-1	LED 4000lm 840	42	vw	ED	1479 x 109 x 54	6040 3024 160	3,02
				DALI	1479 x 109 x 54	6040 3026 660	3,09
procube-CUAX/1500-2	LED 8100lm 840	86	vw	ED	1479 x 161 x 54	6040 4024 160	4,20
				DALI	1479 x 161 x 54	6040 4026 660	4,20
				M5S5 DALI	1479 x 161 x 54	8440 4026 660	4,30
<i>Fresnel lens direct asymmetrical distribution</i>							
procube-CUAWF/1500-1	LED 3700lm 840	39	vw	ED	1453 x 109 x 54	6040 4024 190	4,00
				DALI	1453 x 109 x 54	6040 4026 690	4,10



# procube T5



**Mounting:**

- Ceiling surface
- Mounting rail
- Suspended

**Housing:**

- Sheet steel housing

**Lighting technology CUAG:**

- Diffuser, satined; PC plastic
- Lighting characteristic direct distribution

**Lighting technology CUAD:**

- Micro-parabolic louvre, highly specular MIRO-SILVER®
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1000 cd/m²

**Lighting technology CUAX:**

- Micro-parabolic louvre, silky matt MIRO-SILVER®
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1000 cd/m²

**Lighting technology CUAWF:**

- Wall washer, silky matt
- Lighting characteristic direct asymmetrical distribution

**Lamp:**

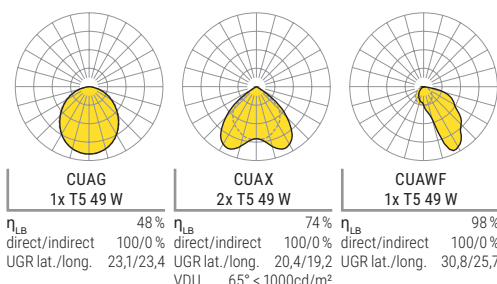
- For fitting with lamp(s) T5

**Switching:**

- 1 Control gear
- Electronic ballast, emergency lighting 3 hours
- 230V 50Hz

**Accessories:**

- Required accessories: end faces, connectors and through-wiring separately to be ordered according to luminaire arrangements.
- Remote controls for commissioning and/or operation of master luminaires M5S5 must be ordered separately.



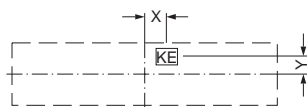
The master luminaires M5S5 are equipped with light and presence sensors and a control unit.



Luminaires are supplied with open ends. End faces and connectors must be ordered separately.

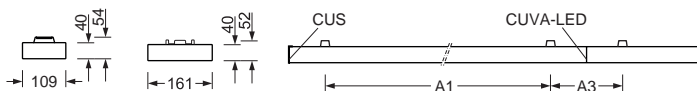
## Dimensions

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
CUA.	T5 1x28, 54 W	1179 x 109 x 46	800	376	15 / 30
	T5 1x35, 49, 80 W	1479 x 109 x 46	1100	376	0 / 30
	T5 2x28, 54 W	1179 x 161 x 46	1000	176	0 / 50
	T5 2x35, 49, 80 W	1479 x 161 x 46	1100	376	0 / 50



CUA. 1x ...

CUA. 2x ...

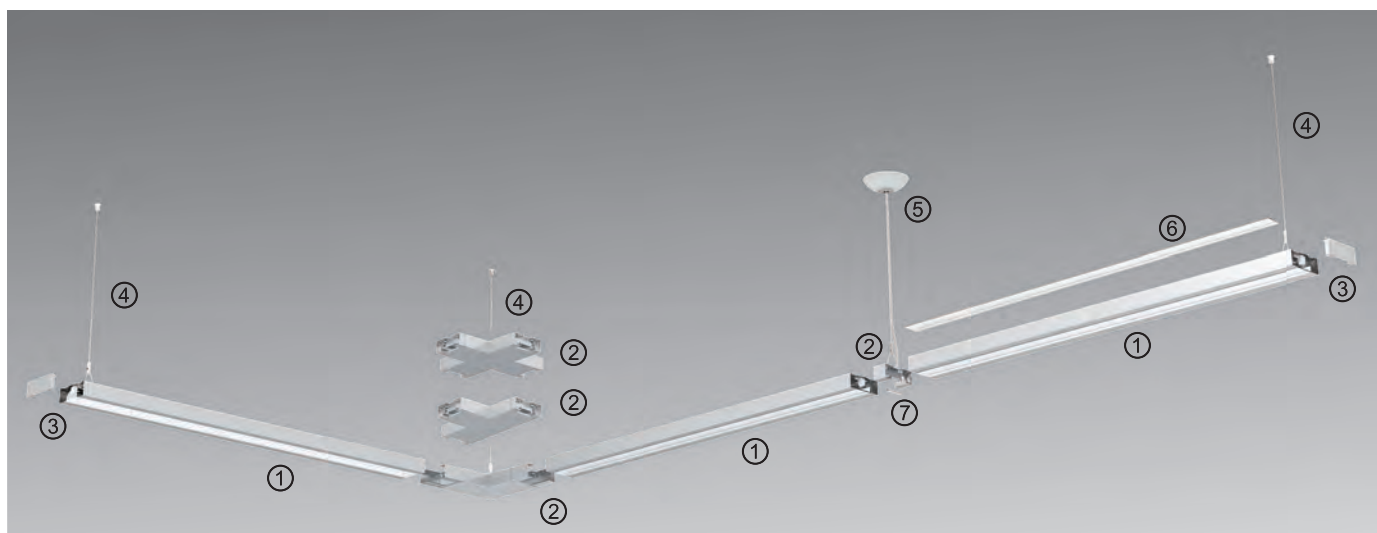




## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, satined direct distribution</i>							
procube-CUAG	T5 1x28/54W	58	vw	ECG	1179 x 109 x 46	6040 1944 180	2,10
				ECG DALI	1179 x 109 x 46	6040 1946 680	2,10
	T5 1x35/49/80W	52	vw	ECG	1479 x 109 x 46	6040 1954 180	2,50
				ECG DALI	1479 x 109 x 46	6040 1956 680	2,50
				ECG M5S5 DALI	1479 x 109 x 46	8440 1958 680	2,70
				ECG EM pack B3	1479 x 109 x 46	6040 1497 780	3,10
	T5 2x28/54W	116	vw	ECG	1179 x 161 x 46	6040 2944 180	2,50
				ECG DALI	1179 x 161 x 46	6040 2946 680	2,50
	T5 2x35/49W	104	vw	ECG	1479 x 161 x 46	6040 2964 180	3,10
				ECG DALI	1479 x 161 x 46	6040 2966 680	3,10
				ECG M5S5 DALI	1479 x 161 x 46	8440 2968 680	3,40
	T5 2x35W	76	vw	ECG EM pack B3	1479 x 161 x 46	6040 2357 780	3,80
<i>Micro-parabolic louvre, highly specular direct distribution</i>							
procube-CUAD	T5 1x28/54W	58	vw	ECG	1179 x 109 x 46	6040 1944 170	2,10
				ECG DALI	1179 x 109 x 46	6040 1946 670	2,10
	T5 1x35/49/80W	52	vw	ECG	1479 x 109 x 46	6040 1954 170	2,50
				ECG DALI	1479 x 109 x 46	6040 1956 670	2,50
				ECG M5S5 DALI	1479 x 109 x 46	8440 1958 670	2,70
				ECG EM pack B3	1479 x 109 x 46	6040 1497 770	3,10
	T5 2x28/54W	116	vw	ECG	1179 x 161 x 46	6040 2944 170	2,60
				ECG DALI	1179 x 161 x 46	6040 2946 670	2,60
	T5 2x35/49/80W	104	vw	ECG	1479 x 161 x 46	6040 2954 170	3,20
				ECG DALI	1479 x 161 x 46	6040 2956 670	3,20
				ECG M5S5 DALI	1479 x 161 x 46	8440 2958 670	3,40
	T5 2x49W	104	vw	ECG EM pack B3	1479 x 161 x 46	6040 2497 770	3,80
<i>Micro-parabolic louvre, silky matt direct distribution</i>							
procube-CUAX	T5 1x28/54W	58	vw	ECG	1179 x 109 x 46	6040 1944 160	2,10
				ECG DALI	1179 x 109 x 46	6040 1946 660	2,10
	T5 1x35/49/80W	52	vw	ECG	1479 x 109 x 46	6040 1954 160	2,50
				ECG DALI	1479 x 109 x 46	6040 1956 660	2,50
				ECG M5S5 DALI	1479 x 109 x 46	8440 1958 660	2,70
				ECG EM pack B3	1479 x 109 x 46	6040 1497 760	3,10
	T5 2x28/54W	116	vw	ECG	1179 x 161 x 46	6040 2944 160	2,60
				ECG DALI	1179 x 161 x 46	6040 2946 660	2,60
	T5 2x35/49/80W	104	vw	ECG	1479 x 161 x 46	6040 2954 160	3,20
				ECG DALI	1479 x 161 x 46	6040 2956 660	3,20
				ECG M5S5 DALI	1479 x 161 x 46	8440 2958 660	3,40
	T5 2x49W	104	vw	ECG EM pack B3	1479 x 161 x 46	6040 2497 760	3,80
<i>Wall washer, silky matt direct asymmetrical distribution</i>							
procube-CUAWF	T5 1x28/54W	58	vw	ECG	1179 x 161 x 46	6040 1944 190	2,40
				ECG DALI	1179 x 161 x 46	6040 1946 690	2,40
	T5 1x35/49/80W	52	vw	ECG	1479 x 161 x 46	6040 1954 190	2,70
				ECG DALI	1479 x 161 x 46	6040 1956 690	2,70

# procube accessories



- ① procube with through-wiring cable FLVWR
- ② Luminaire connectors straight, L, T and X-form
- ③ Luminaire end faces kit CUS
- ④ Luminaire suspension SAY-KS
- ⑤ Luminaire suspension including electrical infeed SAY-KL or SAYE-KL
- ⑥ Transparent cover indirect lighting component CUIA
- ⑦ Diffuser connector GSL

## Accessories

	Type	Colour	Material	Details	Item number		
<i>Design</i>							
Diffuser connector	GSL -1	tz	PC	Protection strip for 1/.. hokal-HL..G, procube CU..G	8460 1001 100	1	0,06
	GSL -2	tz	PC	Protection strip for 2/.. hokal-HL..G, procube CU..G	8460 1002 100	1	0,06
Kit of end faces	procube -CUS -1	vw	St	for procube CUA. T5 1x.../-1 LED, CUAWF-1 LED	6049 1005 100	2	0,20
	procube -CUS -2	vw	St	for procube CUA. T5 2x.../-2 LED, CUAWF T5 1x...	6049 2005 100	2	0,33
<i>Electrical technology</i>							
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm <sup>2</sup> for light run-capable LEDT5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1	0,16
Light Control	LC-OM MASTER REMOTE PC KIT			Remote control for commissioning the DALIeco (M5S5) light control system	8450 1041 200	1	0,11
	LC-OM USER REMOTE			Remote control for the operation of the DALIeco (M5S5) light control system	8450 1042 100	1	0,11
<i>Mounting</i>							
Y-wire suspension	SAG 2	ws	Polymer	Strain relief WAGO terminal for suspension of surface-mounted luminaires	9593 2000 100	1	0,15
	SAY -KS 120	me	Mix	Wire D=1mm, L=2200mm, for cubus, hokal, procube, lens line, lens basic, LED T5	9511 3200 101	1	0,06
	SAYE -KL 120 3x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 3x0,75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3237 121	1	0,25
	SAYE -KL 120 5x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 5x0,75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3257 121	1	0,36
	SAYE -KL 120 9x0,75	tp	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 9x0,75mm <sup>2</sup> for master luminaire M5S5	9510 3297 131	1	0,00
Counter-balance weight	SAG -EVG	sw	Mix	Electronic operating device weight compensation for cubus T5 1x, 2x, T8 1x, lens basic 1x, hokal HLA. T5, procube CUA. T5	9593 4350 100	1	0,35
Tool	SH 30	sw	Polymer	Suction holder, d=30mm for smooth diffuser covers, narrow design	9203 0030 100	1	0,06
	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1	0,08
<i>Structure</i>							
Luminaire connector	procube -CUV A-LED	vw	St	0° for procube CUA.-1/-2 LED	6049 1100 100	1	0,10
	procube -CUV -1	vw	St	0° for procube T5 1x..., CUH.-1 LED	6049 1000 100	1	0,10
	procube -CUV -2	vw	St	0° for procube T5 2x..., CUH.-2 LED	6049 2000 100	1	0,12
	procube -CUVE -1	vw	St	L 90° for procube T5 1x..., -1 LED	6049 1002 100	1	0,50
	procube -CUVE -2	vw	St	L 90° for procube T5 2x..., -2 LED	6049 2002 100	1	0,82
	procube -CUVK -1	vw	St	X 90° for procube T5 1x..., -1 LED	6049 1004 100	1	0,70
	procube -CUVK -2	vw	St	X 90° for procube T5 2x..., -2 LED	6049 2004 100	1	0,80
	procube -CUVT -1	vw	St	T 90° for procube T5 1x..., -1 LED	6049 1003 100	1	0,60
	procube -CUVT -2	vw	St	T 90° for procube T5 2x..., -2 LED	6049 2003 100	1	0,77









# cubus

## cubus – efficiency improvements made easy

Energy efficiency with luminaires is achieved with the intelligent interplay and matching of optimal individual components. The cubus family makes planning and installation easier for all involved. For typical applications and requirements Regiolux lighting concepts and circuit diagrams are made available. In addition, the control components and sensors required for the systems are integrated in the master lights. This way much more than 50% of the energy requirements can be saved. The family of lighting systems itself convinces with the multitude of advantages of a modern lighting series concept: integrated light run connectors, easily removable face ends and optically homogenous louvre. The puristic rectangular cross-section ensures clear lines. This means that all lighting plans and tasks can be quickly and reliably realized.



### Type overview

- ▶ RSAGC Diffuser, satined direct distribution
- ▶ RSAXC Parabolic louvre, silky matt direct distribution
- ▶ RWFAC Wall washer, silky matt direct asymmetrical distribution
- ▶ RSADC Parabolic louvre, highly specular direct distribution
- ▶ RSADAC Parabolic louvre, highly specular direct asymmetrical distribution
- ▶ RMAC Louvre, white direct distribution
- ▶ RSAXAC Parabolic louvre, silky matt direct asymmetrical distribution
- ▶ RSXAC Parabolic louvre, matt direct distribution
- ▶ RSXAAC Parabolic louvre, matt direct asymmetrical distribution

# cubus LED



LED A+ 10000 CE IP 20

### Mounting:

- Ceiling surface
- Mounting rail

### Housing:

- Sheet steel, plastic end faces with integrated light run connectors

### Lighting technology RSAGC:

- Diffuser, satined; PC plastic
- Lighting characteristic direct distribution

### Lighting technology RSAXC:

- Parabolic louvre, silky matt; aluminium
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1000 cd/m<sup>2</sup>

### Lighting technology RWFAC:

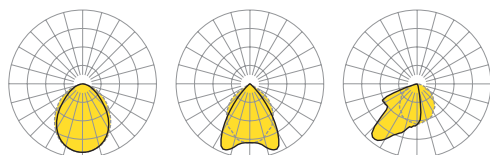
- Wall washer, silky matt; aluminium
- Lighting characteristic direct asymmetrical distribution

### Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

### Switching:

- 1 Control gear
- Electronic driver
- 230V 50Hz



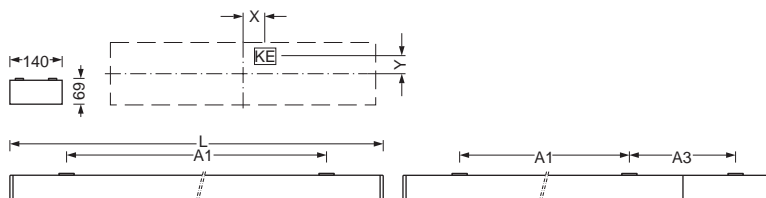
RSAGC-1500 LED 3000 lm 840		RSAXC-1200 LED 3200 lm 840		RWFAC-1500 LED 3700 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	112	lm/W	133	lm/W	110
direct/indirect	100/0%	direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	20,6/22,4	UGR lat./long.	15,5/19,0		
	VDU		65° < 1000cd/m <sup>2</sup>		



If the plastic end faces are removed, the integrated light run connector enables the creation of a light run with a continuous louvre appearance.

## Dimensions

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
R.AC-1200	LED	1188 x 140 x 69	800	376	80 / -41
R.AC-1500	LED	1488 x 140 x 69	1100	376	225 / -41







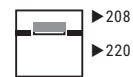
## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, satined direct distribution</i>							
cubus-RSAGC-1200	LED 2400lm 840	22	vw	ED	1188 x 140 x 69	6504 0014 180	4,05
				DALI	1188 x 140 x 69	6504 0016 680	4,05
cubus-RSAGC-1500	LED 3000lm 840	27	vw	ED	1488 x 140 x 69	6504 0024 180	4,64
				DALI	1488 x 140 x 69	6504 0026 680	4,64
<i>Parabolic louvre, silky matt direct distribution</i>							
cubus-RSAXC-1200	LED 3200lm 840	24	vw	ED	1188 x 140 x 69	6504 0014 160	4,05
				DALI	1188 x 140 x 69	6504 0016 660	4,05
cubus-RSAXC-1500	LED 4000lm 840	30	vw	ED	1488 x 140 x 69	6504 0024 160	4,64
				DALI	1488 x 140 x 69	6504 0026 660	4,64
<i>Wall washer, silky matt direct asymmetrical distribution</i>							
cubus-RWFAC-1500	LED 3700lm 840	33	vw	ED	1488 x 140 x 69	6504 0024 190	4,64

## Accessories

Type	Colour	Material	Details	Item number	kg	
<i>Electrical technology</i>						
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm <sup>2</sup> for light run-capable LEDT5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1 0,16
<i>Mounting</i>						
Tool	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1 0,08

# cubus T5



**Mounting:**

- Ceiling surface
- Mounting rail
- Suspended

**Housing:**

- Sheet steel, plastic end faces with integrated light run connectors

**Lighting technology RSADC:**

- Parabolic louvre, highly specular; aluminium reflectivity enhanced
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology RSAXC:**

- Parabolic louvre, silky matt; aluminium reflectivity enhanced
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lamp:**

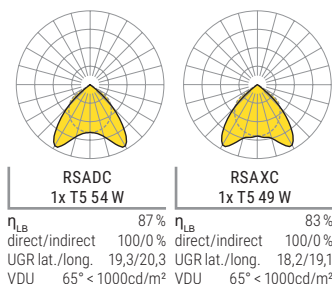
- For fitting with lamp(s) T5

**Switching:**

- 1 Control gear
- Electronic ballast, emergency lighting 3 hours
- 230V 50Hz

**Accessories:**

- Remote controls for commissioning and/or operation of master luminaires M5S5 must be ordered separately.



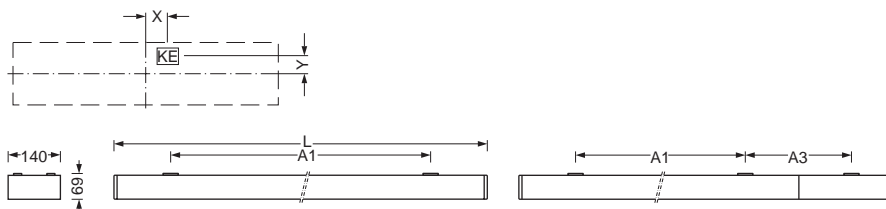
If the plastic end faces are removed, the integrated light run connector enables the creation of a light run with a continuous louvre appearance.

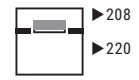


The master luminaires M5S5 are equipped with light and presence sensors and a control unit.


## Dimensions

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
R.AC	T5 1x28, 54 W	1188 x 140 x 69	800	376	80 / 41
	T5 1x35, 49, 80 W	1488 x 140 x 69	1100	376	0 / 41
	T5 2x35, 49, 80 W	1488 x 140 x 69	1100	376	0 / 41







## Products

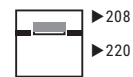
Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Parabolic louvre, highly specular direct distribution</i>							
cubus-RSADC	T5 1x28/54W	58	vw	ECG	1188 x 140 x 69	6504 1944 170	3,40
				ECG DALI	1188 x 140 x 69	6504 1946 670	2,80
	T5 1x35/49/80W	52	vw	ECG	1488 x 140 x 69	6504 1954 170	2,80
				ECG DALI	1488 x 140 x 69	6504 1956 670	3,63
				ECG M5S5 DALI	1488 x 140 x 69	8465 1958 670	3,63
				ECG EM pack B3	1488 x 140 x 69	6504 1497 770	4,28
	T5 1x80W	85	vw	ECG EM pack B3	1488 x 140 x 69	6504 1807 770	4,18
	T5 2x35/49W	104	vw	ECG	1488 x 140 x 69	6504 2964 170	3,63
				ECG DALI	1488 x 140 x 69	6504 2966 670	3,63
	T5 2x49W	104	vw	ECG EM pack B3	1488 x 140 x 69	6504 2497 770	4,58
<i>Parabolic louvre, silky matt direct distribution</i>							
cubus-RSAXC	T5 1x28/54W	58	vw	ECG	1188 x 140 x 69	6504 1944 161	2,35
	T5 1x35/49/80W	52	vw	ECG	1488 x 140 x 69	6504 1954 160	2,74
				ECG DALI	1488 x 140 x 69	6504 1956 660	3,57
				ECG M5S5 DALI	1488 x 140 x 69	8465 1958 660	3,57
				ECG EM pack B3	1488 x 140 x 69	6504 1497 760	4,22
	T5 1x80W	85	vw	ECG EM pack B3	1488 x 140 x 69	6504 1807 760	4,13
	T5 2x35/49W	104	vw	ECG	1488 x 140 x 69	6504 2964 160	3,57
	T5 2x49W	104	vw	ECG EM pack B3	1488 x 140 x 69	6504 2497 760	4,52

## Accessories

Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>						
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm <sup>2</sup> for light run-capable LEDT5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1 0,16
Light Control	LC-OM MASTER REMOTE PC KIT			Remote control for commissioning the DALIeco (M5S5) light control system	8450 1041 200	1 0,11
	LC-OM USER REMOTE			Remote control for the operation of the DALIeco (M5S5) light control system	8450 1042 100	1 0,11
<i>Mounting</i>						
Suspension bracket	SAB 095	me	Inox	0° for T5 cubus	9591 5190 100	1 0,05
Y-wire suspension	SAG 2	ws	Polymer	Strain relief WAGO terminal for suspension of surface-mounted luminaires	9593 2000 100	1 0,15
	SAY -KS 120	me	Mix	Wire D=1mm, L=2200mm, for cubus, hokal, procube, lens line, lens basic, LED T5	9511 3200 101	1 0,06
	SAYE -KL 120 3x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 3x0,75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3237 121	1 0,25
	SAYE -KL 120 5x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 5x0,75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3257 121	1 0,36
	SAYE -KL 120 9x0,75	tp	Mix	Canopy D=123mm, cable D=1mm, L=2200mm, 9 x0,75mm <sup>2</sup> for M5S5 master luminaires	9510 3297 131	1 0,00
Counter-balance weight	SAG -EVG	sw	Mix	Electronic operating device weight compensation for cubus T5 1x, 2x, T8 1x, lens basic 1x, hokal HLA. T5, procube CUA. T5	9593 4350 100	1 0,35



# cubus T5



**Mounting:**

- Ceiling surface
- Mounting rail
- Suspended

**Housing:**

- Sheet steel, plastic end faces with integrated light run connectors

**Lighting technology RSADAC:**

- Parabolic louvre, highly specular; aluminium reflectivity enhanced
- Lighting characteristic direct asymmetrical distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology RMAC:**

- Louvre, white; aluminium
- Lighting characteristic direct distribution

**Lighting technology RSAXAC:**

- Parabolic louvre, silky matt; aluminium reflectivity enhanced
- Lighting characteristic direct asymmetrical distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology RWFAC:**

- Wall washer, silky matt; aluminium
- Lighting characteristic direct asymmetrical distribution

**Lamp:**

- For fitting with lamp(s) T5

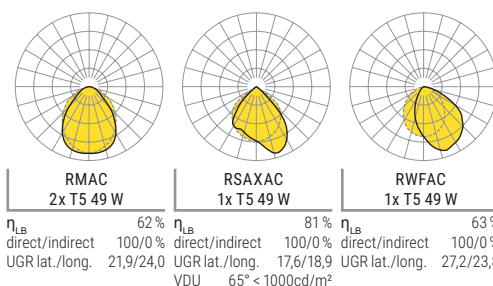
**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz

cubus-RSADAC 1 x T5 ...



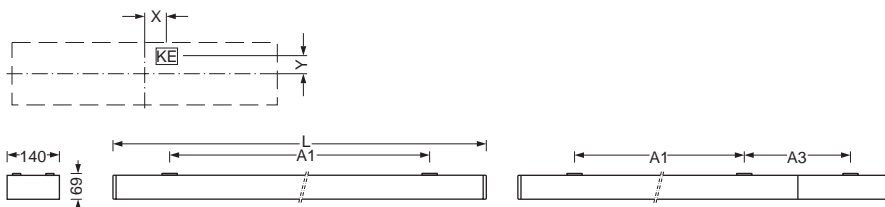
cubus-RMAC 1 x T5 ...  
cubus-RMAC 2 x T5 ...

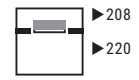


If the plastic end faces are removed, the integrated light run connector enables the creation of a light run with a continuous louvre appearance.

## Dimensions

Typ	Ausführungen	LxBxH/DxH	A1	A3	KE X/Y
R.AC	T5 1x28, 54 W	1188 x 140 x 69	800	376	80 / 41
	T5 1x35, 49, 80 W	1488 x 140 x 69	1100	376	0 / 41
	T5 2x35, 49, 80 W	1488 x 140 x 69	1100	376	0 / 41






cubus-RSAXAC 1 x T5 ...





cubus-RWFAC 1 x T5 ...



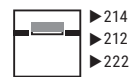
## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Parabolic louvre, highly specular direct asymmetrical distribution</i>							
cubus-RSADAC	T5 1x28/54W	58	vw	ECG	1188 x 140 x 69	6504 1944 130	3,40
	T5 1x35/49/80W	52	vw	ECG	1488 x 140 x 69	6504 1954 130	2,80
<i>Louvre, white direct distribution</i>							
cubus-RMAC	T5 1x28/54W	58	vw	ECG	1188 x 140 x 69	6504 1944 110	3,40
	T5 1x35/49/80W	52	vw	ECG	1488 x 140 x 69	6504 1954 110	2,80
	T5 1x49W	52	vw	ECG EM pack B3	1488 x 140 x 69	6504 1497 710	4,28
	T5 1x80W	85	vw	ECG EM pack B3	1488 x 140 x 69	6504 1807 710	4,19
	T5 2x35/49W	104	vw	ECG	1488 x 140 x 69	6504 2964 110	3,63
	T5 2x49W	104	vw	ECG EM pack B3	1488 x 140 x 69	6504 2497 710	4,58
<i>Parabolic louvre, silky matt direct asymmetrical distribution</i>							
cubus-RSAXAC	T5 1x28/54W	58	vw	ECG	1188 x 140 x 69	6504 1944 140	2,35
	T5 1x35/49/80W	52	vw	ECG	1488 x 140 x 69	6504 1954 140	2,74
<i>Wall washer, silky matt direct asymmetrical distribution</i>							
cubus-RWFAC	T5 1x35/49/80W	52	vw	ECG	1488 x 140 x 69	6504 1954 190	3,63

## Accessories

Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>						
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm <sup>2</sup> for light run-capable LEDT5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1 0,16
<i>Mounting</i>						
Suspension bracket	SAB 095	me	Inox	0° for T5 cubus	9591 5190 100	1 0,05
Y-wire suspension	SAG 2	ws	Polymer	Strain relief WAGO terminal for suspension of surface-mounted luminaires	9593 2000 100	1 0,15
	SAY -KS 120	me	Mix	Wire D=1mm, L=2200mm, for cubus, hokal, procube, lens line, lens basic, LED T5	9511 3200 101	1 0,06
	SAYE -KL 120 3x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 3x0,75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3237 121	1 0,25
	SAYE -KL 120 5x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 5x0,75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3257 121	1 0,36
	SAYE -KL 120 9x0,75	tp	Mix	Canopy D=123mm, cable D=1mm, L=2200mm, 9 x0.75mm <sup>2</sup> for M5S5 master luminaires	9510 3297 131	1 0,00
Counter-balance weight	SAG -EVG	sw	Mix	Electronic operating device weight compensation for cubus T5 1x, 2x, T8 1x, lens basic 1x, hokal HLA. T5, procube CUA. T5	9593 4350 100	1 0,35

# cubus T8



**Mounting:**

- Ceiling surface
- Mounting rail
- Suspended

**Housing:**

- Sheet steel, plastic end faces with integrated light run connectors

**Lighting technology RSADC:**

- Parabolic louvre, highly specular; aluminium
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology RSXAC:**

- Parabolic louvre, matt; aluminium
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 3000 \text{ cd/m}^2$

**Lighting technology RMAC:**

- Louvre, white; aluminium
- Lighting characteristic direct distribution

**Lighting technology RSXAAC:**

- Parabolic louvre, matt; aluminium
- Lighting characteristic direct asymmetrical distribution suited for VDU workstations,  $65^\circ < 3000 \text{ cd/m}^2$

**Lighting technology RWFAC:**

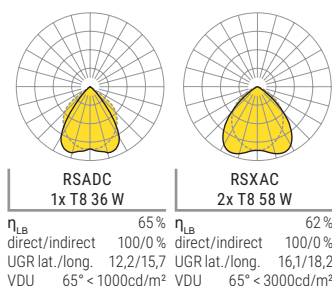
- Wall washer, silky matt; aluminium
- Lighting characteristic direct asymmetrical distribution

**Lamp:**

- For fitting with lamp(s) T8

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz



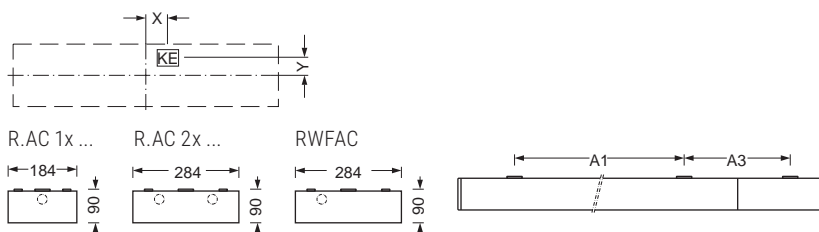
If the plastic end faces are removed, the integrated light run connector enables the creation of a light run with a continuous louvre appearance.

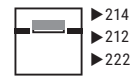
## Dimensions

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
R.AC	T8 1x36W	1241 x 184 x 90	900 <sup>1)</sup>	328	0 / 70
	T8 1x58W	1541 x 184 x 90	1200 <sup>2)</sup>	328	0 / 70
	T8 2x36W	1241 x 284 x 90	900 <sup>1)</sup>	328	30 / 0
	T8 2x58W	1541 x 284 x 90	1200 <sup>2)</sup>	328	0 / 0
RWFAC	T8 1x58W	1541 x 284 x 90	1200 <sup>2)</sup>	328	0 / 0

<sup>1)</sup>Alternative mounting distance: 1000

<sup>2)</sup>Alternative mounting distance: 1300



**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Parabolic louvre, highly specular direct distribution</i>							
cubus-RSADC	T8 1x36W	36	vw	ECG	1241 x 184 x 90	6504 1364 170	3,23
	T8 1x58W	55	vw	ECG	1541 x 184 x 90	6504 1584 170	3,84
				ECG EM pack B3	1541 x 184 x 90	6504 1587 770	4,48
	T8 2x36W	72	vw	ECG	1241 x 284 x 90	6504 2364 170	4,03
	T8 2x58W	110	vw	ECG	1541 x 284 x 90	6504 2584 170	5,12
				ECG EM pack B3	1541 x 284 x 90	6504 2587 770	5,57
<i>Parabolic louvre, matt direct distribution</i>							
cubus-RSXAC	T8 1x36W	36	vw	ECG	1241 x 184 x 90	6504 1364 150	3,18
	T8 1x58W	55	vw	ECG	1541 x 184 x 90	6504 1584 150	3,78
				ECG EM pack B3	1541 x 184 x 90	6504 1587 750	4,48
	T8 2x36W	72	vw	ECG	1241 x 284 x 90	6504 2364 150	3,94
	T8 2x58W	110	vw	ECG	1541 x 284 x 90	6504 2584 150	5,00
				ECG EM pack B3	1541 x 284 x 90	6504 2587 750	5,57
<i>Louvre, white direct distribution</i>							
cubus-RMAC	T8 1x36W	36	vw	ECG	1241 x 184 x 90	6504 1364 110	3,29
	T8 1x58W	55	vw	ECG	1541 x 184 x 90	6504 1584 110	3,84
				ECG EM pack B3	1541 x 184 x 90	6504 1587 710	4,48
	T8 2x36W	72	vw	ECG	1241 x 284 x 90	6504 2364 110	3,98
	T8 2x58W	110	vw	ECG	1541 x 284 x 90	6504 2584 110	5,06
				ECG EM pack B3	1541 x 284 x 90	6504 2587 710	5,57
<i>Parabolic louvre, matt direct asymmetrical distribution</i>							
cubus-RSXAAC	T8 1x36W	36	vw	ECG	1241 x 184 x 90	6504 1364 140	3,18
	T8 1x58W	55	vw	ECG	1541 x 184 x 90	6504 1584 140	3,78
	T8 2x36W	72	vw	ECG	1241 x 284 x 90	6504 2364 140	3,94
	T8 2x58W	110	vw	ECG	1541 x 284 x 90	6504 2584 140	5,00
<i>Wall washer, silky matt direct asymmetrical distribution</i>							
cubus-RWFAC	T8 1x58W	55	vw	ECG	1541 x 284 x 90	6534 1584 100	5,17

**Accessories**

Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>						
Through-wiring cable	FLVWR 1500	ws	H05V2-U 5x1.5mm <sup>2</sup> for light run-capable LEDT5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1	0,16
Emergency lamp socket	E14 H	ws	Polymer E14/IT-25 horiz. for T8	9452 0320 100	1	0,20
<i>Mounting</i>						
Suspension bracket	SAB 240	me	Inox 0° for T8 2/... cubus	9591 0295 100	1	0,16
	SAB 140	me	Inox 0° for T8 1/... cubus	9591 0190 100	1	0,10
Y-wire suspension	SAG 2	ws	Polymer Strain relief WAGO terminal for suspension of surface-mounted luminaires	9593 2000 100	1	0,15
	SAY -KS 295	me	Mix Wire D=1mm, L=2200mm for cubus T8	9511 2200 101	1	0,04
	SAYE -KL 295 3x0,75	vw	Mix Canopy D=123mm, wire D=1mm, L=2200mm, 3x0.75mm <sup>2</sup> for cubus T8	9510 2237 121	1	0,25
	SAYE -KL 295 5x0,75	vw	Mix Canopy D=123mm, wire D=1mm, L=2200mm, 5x0.75mm <sup>2</sup> for cubus T8	9510 2257 121	1	0,36
Counter-balance weight	SAG -EVG	sw	Mix Electronic operating device weight compensation for cubus T5 1x, 2x, T8 1x, lens basic 1x, hokal HLA. T5, procube CUA. T5	9593 4350 100	1	0,35





# UA

## UA – square luminaire concept

This family of square luminaires with different light technologies is suitable for many areas of application. Thanks to their white, high-grade steel sheet housing and overall height of only 63 cm, they harmonise perfectly in rooms and ensure even illumination. The louvre is self-engaging and can be folded down on both sides - the connection is made using three or five-pole plug-in terminals - making installation and maintenance quick and easy. The harmonic louvre distribution with a central blank part on the four-lamp version and an even louvre distribution for the three-lamp version may also be varied upon request as can possibly required emergency light or dimming versions. UA surface-mounted luminaires harmonise ideally with UE family recessed luminaires - a uniform appearance can still be achieved even when not working in all rooms with suspended ceilings.



### Type overview

- ▶ UAX Parabolic louvre, silky matt direct distribution
- ▶ UAD Parabolic louvre, highly specular direct distribution
- ▶ UAM Louvre, white direct distribution



# UA LED



LED A+ 10000h CE IP 20

**Mounting:**

- Ceiling surface

**Housing:**

- Sheet steel housing

**Lighting technology UAX:**

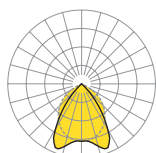
- Parabolic louvre, silky matt; aluminium
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1000 cd/m<sup>2</sup>

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz



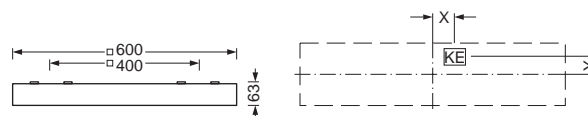
UAX LED  
4000 lm 840

η <sub>LED</sub>	100%
lm/W	135
direct/indirect	100/0%
UGR lat./long.	11,4/16,6
VDU	65° < 1000cd/m <sup>2</sup>



**Dimensions**

Type	Versions	LxBxH/DxH	A1	A4	KE X/Y
UA.	LED	600 x 600 x 63	400	400	0 / 15



**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Parabolic louvre, silky matt direct distribution</i>							
UAX	LED 4000lm 840	29	vw	ED	600 x 600 x 63	6507 0504 160	4,45
		29	vw	DALI	600 x 600 x 63	6507 0506 660	4,50





# UA T5



**Mounting:**

- Ceiling surface

**Housing:**

- Sheet steel housing

**Lighting technology UAD:**

- Parabolic louvre, highly specular; aluminium reflectivity enhanced
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology UAX:**

- Parabolic louvre, silky matt; aluminium reflectivity enhanced
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology UAM:**

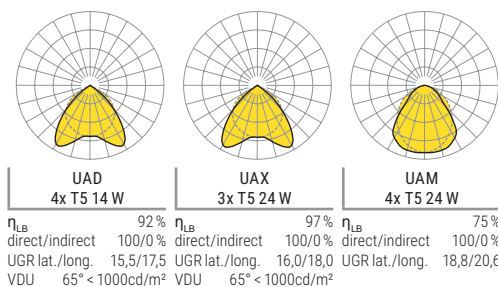
- Louvre, white; aluminium
- Lighting characteristic direct distribution

**Lamp:**

- For fitting with lamp(s) T5

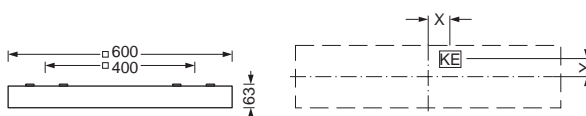
**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz



## Dimensions

Type	Versions	LxBxH/DxH	A1	A4	KE X/Y
UA.	T5 3x14, 24 W	600 x 600 x 63	400	400	0 / 15
	T5 4x14, 24 W	600 x 600 x 63	400	400	0 / 15



**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Parabolic louvre, highly specular direct distribution</i>							
UAD	T5 3x14W	48	vw	ECG	600 x 600 x 63	6507 3144 170	4,46
	T5 3x24W	78	vw	ECG	600 x 600 x 63	6507 3244 170	4,46
	T5 4x14W	64	vw	ECG	600 x 600 x 63	6507 4144 170	4,29
				ECG DALI	600 x 600 x 63	6507 4146 670	4,29
				ECG EM pack B3	600 x 600 x 63	6507 4147 770	4,91
	T5 4x24W	104	vw	ECG	600 x 600 x 63	6507 4244 170	4,29
				ECG DALI	600 x 600 x 63	6507 4246 670	4,29
				ECG EM pack B3	600 x 600 x 63	6507 4247 770	4,85
	<i>Parabolic louvre, silky matt direct distribution</i>						
UAX	T5 3x14W	48	vw	ECG	600 x 600 x 63	6507 3144 160	4,39
	T5 3x24W	78	vw	ECG	600 x 600 x 63	6507 3244 160	4,39
	T5 4x14W	64	vw	ECG	600 x 600 x 63	6507 4144 160	4,19
				ECG DALI	600 x 600 x 63	6507 4146 660	4,19
				ECG EM pack B3	600 x 600 x 63	6507 4147 760	4,81
	T5 4x24W	104	vw	ECG	600 x 600 x 63	6507 4244 160	4,19
				ECG DALI	600 x 600 x 63	6507 4246 660	4,19
				ECG EM pack B3	600 x 600 x 63	6507 4247 760	4,73
	<i>Louvre, white direct distribution</i>						
UAM	T5 3x14W	48	vw	ECG	600 x 600 x 63	6504 3144 110	4,57
	T5 3x24W	78	vw	ECG	600 x 600 x 63	6504 3244 110	4,57
	T5 4x14W	64	vw	ECG	600 x 600 x 63	6504 4144 110	4,43
				ECG DALI	600 x 600 x 63	6504 4146 610	4,43
				ECG EM pack B3	600 x 600 x 63	6504 4147 710	4,91
	T5 4x24W	104	vw	ECG	600 x 600 x 63	6504 4244 110	4,43
				ECG DALI	600 x 600 x 63	6504 4246 610	4,43
				ECG EM pack B3	600 x 600 x 63	6504 4247 710	4,83





# rebus

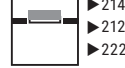
## rebus – rugged luminaires with format

Wide-ranging luminaire family with 1- to 4-lamp luminaires. The program includes linear versions and square luminaires. In addition to that, you find an offer of square small luminaires with the same optical design for corridors or small ancillary areas. The most different light technologies for any appliance and the great selection of types provide the equipment of complete objects. There are also luminaires in the same louvre optics for panel ceiling and the cubus series of surface-mounted and suspended luminaires.

### Type overview

- ▶ RSAD Parabolic louvre, highly specular direct distribution
- ▶ RSXA Parabolic louvre, matt direct distribution
- ▶ RMA Louvre, white direct distribution
- ▶ RSXAA Parabolic louvre, matt direct asymmetrical distribution
- ▶ RKOAD Parabolic louvre, highly specular direct distribution
- ▶ RKOASX Parabolic louvre, matt direct distribution





**Mounting:**

- Ceiling surface
- Mounting rail

**Housing:**

- Sheet steel

**Lighting technology RSAD:**

- Parabolic louvre, highly specular
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology RSXA:**

- Parabolic louvre, matt
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 3000 \text{ cd/m}^2$

**Lighting technology RMA:**

- Louvre, white
- Lighting characteristic direct distribution

**Lighting technology RSXAA:**

- Parabolic louvre, matt
- Lighting characteristic direct asymmetrical distribution suited for VDU workstations,  $65^\circ < 3000 \text{ cd/m}^2$

**Lighting technology RKOAD:**

- Parabolic louvre, highly specular
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology RKOASX:**

- Parabolic louvre, matt
- Lighting characteristic direct distribution

**Lamp:**

- For fitting with lamp(s) T8 or TC-L

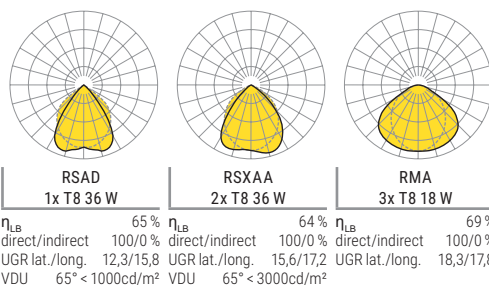
**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz

rebus-RSAD 1 x ...

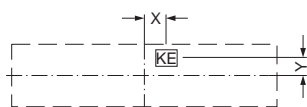


rebus-RSXA 2 x ...  
rebus-RSXAA 2 x ...

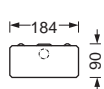


**Dimensions**

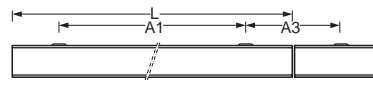
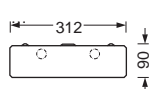
Type	Versions	LxBxH/DxH	A1	A3	A4	KE X/Y
R.A.	T8 1x36W	1248 x 184 x 90	1000	248	-	110 / 70
	T8 1x58W	1548 x 184 x 90	1300	248	-	0 / 70
	T8 2x36W	1248 x 312 x 90	1000	248	-	40 / 0
	T8 2x58W	1548 x 312 x 90	1300	248	-	0 / 0
	T8 3x18W	624 x 624 x 90	-	-	540	0 / 100
	T8 4x18W	624 x 624 x 90	-	-	540	0 / 0
RKOA.	TC-L 2x18W	312 x 312 x 90	200	-	-	110 / -20



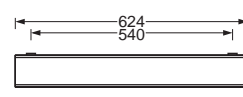
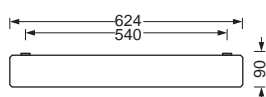
R.A. 1x ...



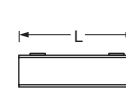
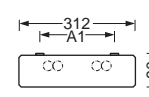
R.A. 2x

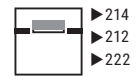


R.A. 3x .../4x ...




RKOA. 2x ...







## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Parabolic louvre, highly specular direct distribution</i>							
rebus-RKOAD	TC-L 2x18W 2G11	42	vw	ECG	312 x 312 x 90	8104 2184 170	2,80
rebus-RSAD	T8 1x36W	36	vw	ECG	1248 x 184 x 90	6104 1364 170	4,24
	T8 1x58W	55	vw	ECG	1548 x 184 x 90	6104 1584 170	5,10
	T8 2x36W	72	vw	ECG	1248 x 312 x 90	6104 2364 170	5,61
	T8 2x58W	110	vw	ECG	1548 x 312 x 90	6104 2584 170	6,71
	T8 3x18W	57	vw	ECG	624 x 624 x 90	6104 3184 170	5,90
	T8 4x18W	76	vw	ECG	624 x 624 x 90	6104 4184 170	5,75
<i>Parabolic louvre, matt direct asymmetrical distribution</i>							
rebus-RSXAA	T8 1x36W	36	vw	ECG	1248 x 184 x 90	6104 1364 140	4,19
	T8 1x58W	55	vw	ECG	1548 x 184 x 90	6104 1584 140	5,03
	T8 2x36W	72	vw	ECG	1248 x 312 x 90	6104 2364 140	5,51
	T8 2x58W	110	vw	ECG	1548 x 312 x 90	6104 2584 140	6,58
<i>Louvre, white direct distribution</i>							
rebus-RMA	T8 1x36W	36	vw	ECG	1248 x 184 x 90	6104 1364 110	4,24
	T8 1x58W	55	vw	ECG	1548 x 184 x 90	6104 1584 110	5,15
	T8 2x36W	72	vw	ECG	1248 x 312 x 90	6104 2364 110	5,64
	T8 2x58W	110	vw	ECG	1548 x 312 x 90	6104 2584 110	6,76
	T8 3x18W	57	vw	ECG	624 x 624 x 90	6104 3184 110	6,00
	T8 4x18W	76	vw	ECG	624 x 624 x 90	6104 4184 110	6,10
<i>Parabolic louvre, matt direct distribution</i>							
rebus-RKOASX	TC-L 2x18W 2G11	38	vw	ECG	312 x 312 x 90	8104 2184 150	2,80
rebus-RSXA	T8 1x36W	36	vw	ECG	1248 x 184 x 90	6104 1364 150	4,19
	T8 1x58W	55	vw	ECG	1548 x 184 x 90	6104 1584 150	5,03
	T8 2x36W	72	vw	ECG	1248 x 312 x 90	6104 2364 150	5,51
	T8 2x58W	110	vw	ECG	1548 x 312 x 90	6104 2584 150	6,58
	T8 3x18W	57	vw	ECG	624 x 624 x 90	6104 3184 150	5,90
	T8 4x18W	76	vw	ECG	624 x 624 x 90	6104 4184 150	5,76

## Accessories

Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>						
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm <sup>2</sup> for light run-capable LEDT5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1 0,16
Emergency lamp socket	E14 H	ws	Polymer	E14/IT-25 horiz. for T8	9452 0320 100	1 0,20



# wotek

## wotek – soft and puristic light

Diffuser luminaires prove their design benefits when the light effect is created by designed diffuser trays. Clear accentuated edges stringently define the shape of wotek. The light effect however comes to the fore as it is almost without shadow and with unobtrusive illumination. Whether square or long shape, there is a wide range of variants for many applications. The wotek family of luminaires is consistently designed for IP54, and as a result further extends the range of application as well as the available emergency light variants. In addition, there is an improved maintenance factor for the LED luminaire. We use the term „well-shaped“ because an indirect light portion is also created which again supports the overall impression.



## Type overview

- ▶ WKO Diffuser, opal direct/indirect distribution



# wotek LED

LED A+ CE IP 54

**Mounting:**

- Ceiling surface
- Wand-Anbau

**Housing:**

- Sheet steel

**Lighting technology WKO:**

- Diffuser, opal; PMMA plastic
- Lighting characteristic direct/indirect distribution

**Lamp:**

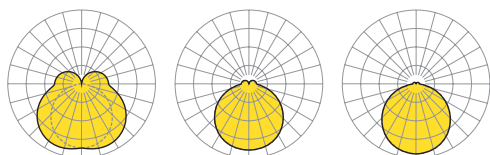
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K or CRI ≥ 80 / 3000K

**Switching:**

- The number of control units varies according to the version
- Electronic driver 230-240V/0Hz/50-60Hz
- 230V 50Hz

**Mounting instructions:**

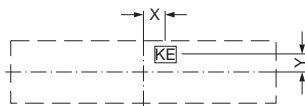
- Note for protection rating: IP54 with ceiling mounting, IP44 with wall mounting



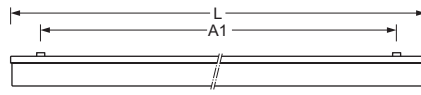
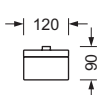
WKO/1500 LED 4600 lm 840		WKO/300 LED 1500 lm 840		WKO/600 LED 5800 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	109	lm/W	115	lm/W	111
direct/indirect	77/23%	direct/indirect	86/14%	direct/indirect	93/7%
UGR lat./long.	22,0/19,2	UGR lat./long.	19,8/19,8	UGR lat./long.	20,5/20,5

## Dimensions

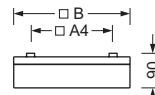
Type	Versions	LxBxH/DxH	A1	A3	A4	KE X/Y
WK./1200	LED	1210 x 120 x 90	1050	160	-	30 / 0
WK./1500	LED	1510 x 120 x 90	1100	410	-	30 / 0
WK./300	LED	310 x 310 x 90	-	-	220	0 / 110
WK./600	LED	620 x 620 x 90	-	-	440	0 / 220



WK.



WK./3, WK./6





## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, opal direct/indirect distribution</i>							
wotek-WKO/1200	LED 3500lm 830	28	vw	EN	1210 x 120 x 90	2170 2024 180	3,10
				DALI	1210 x 120 x 90	2170 2026 680	3,10
	LED 3600lm 840	28	vw	EM pack 3h	1210 x 120 x 90	2170 2314 180	3,40
				EM pack 3h DALI	1210 x 120 x 90	2170 2316 680	3,40
				EN	1210 x 120 x 90	2170 2014 180	3,10
wotek-WKO/1500	LED 4500lm 830	36	vw	EN	1510 x 120 x 90	2170 5024 180	3,73
				DALI	1510 x 120 x 90	2170 5026 680	3,73
	LED 4600lm 840	36	vw	EM pack 3h	1510 x 120 x 90	2170 5314 180	4,03
				EM pack 3h DALI	1510 x 120 x 90	2170 5316 680	4,03
wotek-WKO/300	LED 1400lm 830	13	vw	EN	310 x 310 x 90	2170 3024 180	1,66
	LED 1500lm 840	13	vw	EN	310 x 310 x 90	2170 3014 180	1,66
wotek-WKO/600	LED 5500lm 830	52	vw	EN	620 x 620 x 90	2170 6024 180	6,20
				DALI	620 x 620 x 90	2170 6026 680	6,20
	LED 5800lm 840	52	vw	EN	620 x 620 x 90	2170 6014 180	6,20
				DALI	620 x 620 x 90	2170 6016 680	6,20

## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Lighting technology</i>					
Wanne WKO /1200	tz	PMMA	for WKO/1200 LED	2170 1200 180	1 0,80
Wanne WKO /300	tz	PMMA	for WKO/300 LED	2170 0300 180	1 0,42
Wanne WKO /1500	tz	PMMA	for WKO/1500 LED	2170 1500 180	1 0,92
Wanne WKO /600	tz	PMMA	for WKO/600 LED	2170 0600 180	1 1,49



# lens line

## lens line – universal, complete and high-quality

Diffuser luminaires are the classics among luminaires, and form an essential part of routine applications up to the present day. They take advantage of their inherent strengths as standard luminaires for a wide variety of applications: uncomplicated in terms of constructional design and installation, and completely closed and therefore insensitive to environmental influences such as dust or dirt.

With lens, Regiolux has created a luminaire that manages to retain these characteristics, to improve upon them and to translate them into a contemporary design language. Until now, design concentrated on simple circular or angular luminaires that were usually recessed or surface-mounted. lens line on the other hand represents a wholly new type of diffuser luminaire: slim-line, high-quality and decorative, a luminaire that puts in a good appearance either surface-mounted or suspended, and combined for example with reflector optics is able to capture additional areas for application.

Whoever is looking for a luminaire that is both decorative and at the same time practicable and robust will find what he/she is looking for with the lens diffuser luminaires – they combine all characteristics that a luminaire for universal use should have today.



### Type overview

- ▶ LSAK Diffuser, opal direct distribution
- ▶ LSAP Diffuser, prismatic direct distribution
- ▶ LSAKPC Diffuser, opal direct distribution impact-resistant



# lens line LED



LED A+  $\leq 0.35J$   $0.35Nm$   $\nabla$   $\uparrow$   $\downarrow$  CE IP 50

**Mounting:**

- Ceiling surface
- Mounting rail
- Suspended

**Housing:**

- Sheet steel profile, front sides made of polycarbonate

**Lighting technology LSAK:**

- Diffuser, opal; PMMA plastic
- Lighting characteristic direct distribution

**Lighting technology LSAP:**

- Diffuser, prismatic; PMMA plastic
- Lighting characteristic direct distribution

**Lamp:**

- LED 50000h L80/B10
- CRI  $\geq 80$  / 4000K or CRI  $\geq 80$  / 3000K

**Switching:**

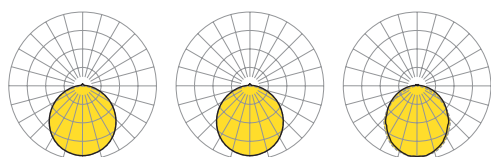
- 1 Control gear
- Electronic driver
- 230V 50Hz

**Miscellaneous:**

- Electrical connection via white connection cable 2.3 m

**Accessories:**

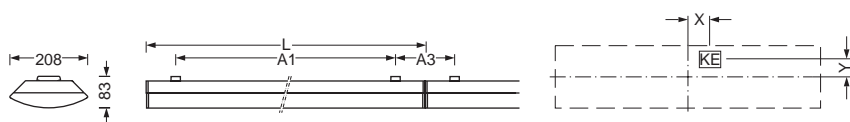
- For suspended mounting, the Y-wire suspension kit SAY-KS and SAY-KL with 2,000mm suspension height are to be ordered separately.



LSAK/1500 LED 2600 lm 840		LSAK/1500 LED 4900 lm 830		LSAP/1500 LED 6200 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	105	lm/W	100	lm/W	127
direct/indirect	95/5%	direct/indirect	95/5%	direct/indirect	96/4%
UGR lat./long.	18,5/18,4	UGR lat./long.	20,7/20,6	UGR lat./long.	21,7/20,2

## Dimensions

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
LSA./1200	LED	1208 x 208 x 83	930	313	0/0
LSA./1500	LED	1508 x 208 x 83	1100	413	0/0








lens line-LSAP LED



### Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, opal direct distribution</i>							
lens line-LSAK/1200	LED 2100lm 830	21	vw	ED	1208 x 208 x 83	2164 1024 180	4,33
	LED 2200lm 840	21	vw	ED	1208 x 208 x 83	2164 1014 180	4,33
	LED 4200lm 830	42	vw	ED	1208 x 208 x 83	2164 2024 180	4,33
	LED 4400lm 840	42	vw	ED	1208 x 208 x 83	2164 2014 180	4,57
lens line-LSAK/1500	LED 2400lm 830	24	vw	ED	1508 x 208 x 83	2165 1024 180	4,57
	LED 2600lm 840	24	vw	ED	1508 x 208 x 83	2165 1014 180	5,26
	LED 4900lm 830	49	vw	ED	1508 x 208 x 83	2165 2024 180	4,57
	LED 5100lm 840	49	vw	ED	1508 x 208 x 83	2165 2014 180	5,47
<i>Diffuser, prismatic direct distribution</i>							
lens line-LSAP/1200	LED 2500lm 830	21	vw	ED	1208 x 208 x 83	2164 1024 190	5,26
	LED 2700lm 840	21	vw	ED	1208 x 208 x 83	2164 1014 190	4,33
	LED 5000lm 830	42	vw	ED	1208 x 208 x 83	2164 2024 190	5,26
	LED 5300lm 840	42	vw	ED	1208 x 208 x 83	2164 2014 190	4,57
lens line-LSAP/1500	LED 3000lm 830	24	vw	ED	1508 x 208 x 83	2165 1024 190	5,47
	LED 3100lm 840	24	vw	ED	1508 x 208 x 83	2165 1014 190	5,26
	LED 5900lm 830	49	vw	ED	1508 x 208 x 83	2165 2024 190	5,47
	LED 6200lm 840	49	vw	ED	1508 x 208 x 83	2165 2014 190	5,47

### Accessories

Type	Colour	Material	Details	Item number		
<i>Mounting</i>						
Y-wire suspension	SAY -KL 120	vw	Mix	Canopy D = 123mm, wire D = 1mm, L = 2200mm for lens line LED; stail	9510 3200 101	1 0,12
	SAY -KS 120	me	Mix	Wire D=1mm, L=2200mm, for cubus, hokal, procube, lens line, lens basic, LED T5	9511 3200 101	1 0,06

# lens line T5



**Mounting:**

- Ceiling surface
- Mounting rail
- Suspended
- Wall mounting

**Housing:**

- Sheet steel profile, front sides made of polycarbonate

**Lighting technology LSAK:**

- Diffuser, opal; PMMA plastic
- Lighting characteristic direct distribution

**Lighting technology LSAKPC:**

- Diffuser, opal; PC plastic
- Lighting characteristic direct distribution

**Lighting technology LSAP:**

- Diffuser, prismatic; PMMA plastic
- Lighting characteristic direct distribution

**Lamp:**

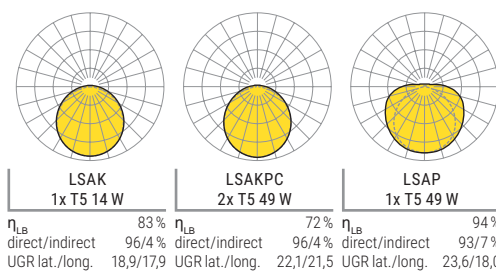
- For fitting with lamp(s) T5

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz

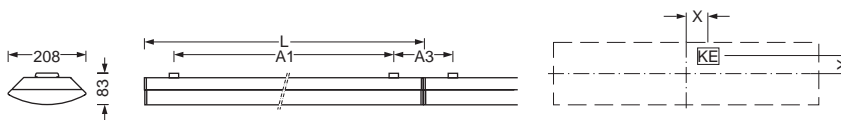
**Accessories:**

- For suspended mounting, one kit suspension bracket SAGL, the Y-wire suspension kit SAY-KS / SAYE-KL with 2,000 mm suspension height are to be ordered separately.



**Dimensions**

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
LSA.	T5 1x14, 24 W	608 x 208 x 83	450	163	0 / 0
	T5 1x28, 54 W	1208 x 208 x 83	900	313	0 / 0
	T5 1x35, 49, 80 W	1508 x 208 x 83	1100	413	0 / 0
	T5 2x14, 24 W	608 x 208 x 83	450	163	0 / 0
	T5 2x28, 54 W	1208 x 208 x 83	900	313	0 / 0
	T5 2x35, 49, 80 W	1508 x 208 x 83	1100	413	0 / 0



**Replacement parts**

Type	Colour	Material	Details	Item number	kg	
<i>Lighting technology</i>						
Diffuser	Wanne LSAK 0600	tz	PMMA	for LSAK T5 1x14/24, 2x14/24	2151 9920 180	1 0,44
	Wanne LSAK 1200	tz	PMMA	for LSAK T5 1x28/54, 2x28/54	2151 9940 180	1 0,88
	Wanne LSAK 1500	tz	PMMA	for LSAK T5 1x35/49/80, 2x35/49	2151 9950 180	1 1,10
	Wanne LSAKPC 0600	tz	PC	for LSAKPC T5 1x14/24, 2x14/24	2151 9920 181	1 0,44
	Wanne LSAKPC 1200	tz	PC	for LSAKPC T5 1x28/54, 2x28/54	2151 9940 181	1 0,88
	Wanne LSAKPC 1500	tz	PC	for LSAKPC T5 1x35/49/80, 2x35/49	2151 9950 181	1 1,10
	Wanne LSAP 0600	kl	PMMA	for LSAP T5 1x14/24, 2x14/24	2151 9920 190	1 0,44
	Wanne LSAP 1200	kl	PMMA	for LSAP T5 1x28/54, 2x28/54	2151 9940 190	1 0,88
	Wanne LSAP 1500	kl	PMMA	for LSAP T5 1x35/49/80, 2x35/49	2151 9950 190	1 1,10



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, opal direct distribution</i>							
lens line-LSAK	T5 1x14/24W	16	vw	ECG	608 x 208 x 83	2151 1924 180	2,29
	T5 1x28/54W	58	vw	ECG	1208 x 208 x 83	2151 1944 180	3,82
	T5 1x35/49/80W	52	vw	ECG DALI	1208 x 208 x 83	2151 1946 680	3,82
				ECG	1508 x 208 x 83	2151 1954 180	4,85
	T5 2x14/24W	23	vw	ECG DALI	1508 x 208 x 83	2151 1956 680	4,85
				ECG	608 x 208 x 83	2151 2924 180	2,39
	T5 2x28/54W	116	vw	ECG	1208 x 208 x 83	2151 2944 180	3,92
				ECG DALI	1208 x 208 x 83	2151 2946 680	3,92
	T5 2x35/49W	104	vw	ECG	1508 x 208 x 83	2151 2964 180	4,95
				ECG DALI	1508 x 208 x 83	2151 2966 680	4,95
<i>Diffuser, opal direct distribution impact-resistant</i>							
lens line-LSAKPC	T5 1x14/24W	16	vw	ECG	608 x 208 x 83	2151 1924 181	2,29
	T5 1x28/54W	58	vw	ECG	1208 x 208 x 83	2151 1944 181	3,82
	T5 1x35/49/80W	52	vw	ECG DALI	1208 x 208 x 83	2151 1946 681	3,82
				ECG	1508 x 208 x 83	2151 1954 181	4,85
	T5 2x14/24W	23	vw	ECG DALI	1508 x 208 x 83	2151 1956 681	4,85
				ECG	608 x 208 x 83	2151 2924 181	2,39
	T5 2x28/54W	116	vw	ECG	1208 x 208 x 83	2151 2944 181	3,92
				ECG DALI	1208 x 208 x 83	2151 2946 681	3,92
	T5 2x35/49W	104	vw	ECG	1508 x 208 x 83	2151 2964 181	4,95
				ECG DALI	1508 x 208 x 83	2151 2966 681	4,95
<i>Diffuser, prismatic direct distribution</i>							
lens line-LSAP	T5 1x14/24W	16	vw	ECG	608 x 208 x 83	2151 1924 190	2,29
	T5 1x28/54W	58	vw	ECG	1208 x 208 x 83	2151 1944 190	3,82
	T5 1x35/49/80W	52	vw	ECG DALI	1208 x 208 x 83	2151 1946 690	3,82
				ECG	1508 x 208 x 83	2151 1954 190	4,85
	T5 2x14/24W	23	vw	ECG DALI	1508 x 208 x 83	2151 1956 690	4,85
				ECG	608 x 208 x 83	2151 2924 190	2,39
	T5 2x28/54W	116	vw	ECG	1208 x 208 x 83	2151 2944 190	3,92
				ECG DALI	1208 x 208 x 83	2151 2946 690	3,92
	T5 2x35/49W	104	vw	ECG	1508 x 208 x 83	2151 2964 190	4,95
				ECG DALI	1508 x 208 x 83	2151 2966 690	4,95

## Accessories

Type	Colour	Material	Details	Item number		
<i>Lighting technology</i>						
Asymmetric distribution reflector	LSA-SEA 600	aeh	Al	asym., l=600mm for lens	2151 0600 140	1 0,22
	LSA-SEA 1200	aeh	Al	asym., l=1200mm for lens	2151 1200 140	1 0,46
	LSA-SEA 1500	aeh	Al	asym., l=1500mm for lens	2151 1500 140	1 0,56
Reflector, narrow distribution	LSA-SE 600	aeh	Al	narrow distr., l=600mm, 1 x for lens line 1/..., 2 x for lens line 2/...	2151 0600 100	1 0,18
	LSA-SE 1200	aeh	Al	narrow distr., l=1200mm, 1 x for lens line 1/..., 2 x for lens line 2/...	2151 1200 100	1 0,37
	LSA-SE 1500	aeh	Al	narrow distr., l=1500mm, 1 x for lens line 1/..., 2 x for lens line 2/...	2151 1500 100	1 0,46
<i>Mounting</i>						
Suspension bracket	SAGL	me	St	Bracket for lens Line T5	9593 3110 100	2 0,15
Y-wire suspension	SAY -KS 120	me	Mix	Wire D=1mm, L=2200mm, for cubus, hokal, procube, lens line, lens basic, LED T5	9511 3200 101	1 0,06
	SAYE -KL 120 3x0,75 vw		Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 3x0,75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3237 121	1 0,25
	SAYE -KL 120 5x0,75 vw		Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 5x0,75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3257 121	1 0,36





# lens basic

## lens basic – has its own technical structure and character

The affinity for the lens line cannot be denied in the design. After all, the declared aim was to develop an economic variation for less demanding tasks that can also function as an independent line.

Classrooms, conference rooms, shops, public spaces and much more – with lens diffuser luminaires a wide range of applications can be quickly and easily illuminated. Whether as single or group luminaires or installed as light runs, mounted to the ceiling, to the SDT mounting rail or in suspended form, the complete spectrum of lighting requirements can be met by lens, thanks to its many variations with T5 technology. Its slim, contemporary design and universal usage makes the lens a luminaire to blend with every environment and prove its worth. lens basic succeeds in newly defining the area of diffuser luminaires, in setting new impulses for applications and in widening the spectrum of deployment possibilities.

### Type overview

- ▶ LBAK      Diffuser, opal direct distribution
- ▶ LBAKPC    Diffuser, opal direct distribution  
                  impact-resistant
- ▶ LBAP      Diffuser, prismatic direct distribution

# lens basic T5



**Mounting:**

- Ceiling surface
- Mounting rail
- Suspended

**Housing:**

- Sheet steel profile, front sides made of polycarbonate

**Lighting technology LBAK:**

- Diffuser, opal; PMMA plastic
- Lighting characteristic direct distribution

**Lighting technology LBAKPC:**

- Diffuser, opal; PC plastic
- Lighting characteristic direct distribution

**Lighting technology LBAP:**

- Diffuser, prismatic; PMMA plastic
- Lighting characteristic direct distribution

**Lamp:**

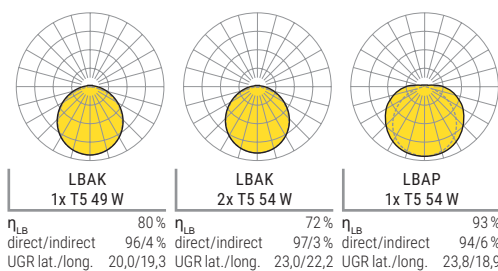
- For fitting with lamp(s) T5

**Switching:**

- 1 Control gear
- Electronic ballast, emergency lighting 1 hour
- 230V 50Hz

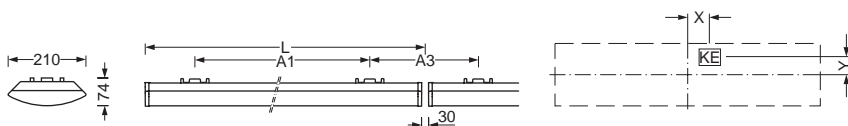
**Accessories:**

- For suspended mounting of one lamp luminaires, it is recommended to use the counter-balance weight SAG-EVG. In addition: for suspended mounting, the SAGB suspension kit and the SAY-KS / SAYE-KL Y-wire suspension with suspension height 2000 mm are to be ordered separately.



**Dimensions**

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
LBA.	T5 1x14, 24 W	603 x 210 x 74	470	163	30 / 40
	T5 1x21, 39 W	903 x 210 x 74	770	163	30 / 40
	T5 1x28, 54 W	1203 x 210 x 74	900	333	0 / 40
	T5 1x35, 49, 80 W	1503 x 210 x 74	1100	433	0 / 40
	T5 2x14, 24 W	603 x 210 x 74	470	163	30 / 0
	T5 2x21, 39 W	903 x 210 x 74	770	163	30 / 0
	T5 2x28, 54 W	1203 x 210 x 74	900	333	0 / 0
	T5 2x35, 49, 80 W	1503 x 210 x 74	1100	433	0 / 0



**Accessories**

Type	Colour	Material	Details	Item number	kg	
<i>Mounting</i>						
Suspension bracket	SAGB	me	St.galv.	Bracket for lens basic	9593 5000 100	2 0,15
Y-wire suspension	SAY-KS 120	me	Mix	Wire D=1mm, L=2200mm, for cubus, hokal, procube, lens line, lens basic, LED T5	9511 3200 101	1 0,06
	SAYE-KL 120 3x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 3x0,75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3237 121	1 0,25
	SAYE-KL 120 5x0,75	vw	Mix	Canopy D=123mm, wire D=1mm, L=2200mm, 5x0,75mm <sup>2</sup> for cubus, hokal, procube, lens basic, LED T5; lens line T5	9510 3257 121	1 0,36
Counter-balance weight	SAG-EVG	sw	Mix	Electronic operating device weight compensation for cubus T5 1x, 2x, T8 1x, lens basic 1x, hokal HLA. T5, procube CUA. T5	9593 4350 100	1 0,35





## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number		
<i>Diffuser, opal direct distribution</i>								
lens basic-LBAK	T5 1x14/24W	16	vw	ECG	603 x 210 x 74	2150 1924 180	0,95	
	T5 1x21/39W	23	vw	ECG	903 x 210 x 74	2150 1934 180	2,32	
	T5 1x28/54W	58	vw	ECG	1203 x 210 x 74	2150 1944 180	3,00	
	T5 1x35/49/80W	52	vw	ECG	1503 x 210 x 74	2150 1954 180	3,20	
	T5 1x49W				ECG EM pack 1h	1503 x 210 x 74	2150 1497 180	3,73
					ECG EM pack B3	1503 x 210 x 74	2150 1497 780	3,80
					ECG EM pack 1h	1503 x 210 x 74	2150 1807 180	3,05
	T5 1x80W				ECG EM pack B3	1503 x 210 x 74	2150 1807 780	3,12
					ECG	603 x 210 x 74	2150 2924 180	0,95
					ECG	903 x 210 x 74	2150 2934 180	2,32
	T5 2x21/39W	46	vw	ECG	1203 x 210 x 74	2150 2944 180	3,30	
	T5 2x28/54W	116	vw	ECG	1503 x 210 x 74	2150 2964 180	3,80	
	T5 2x35/49W	104	vw	ECG	1503 x 210 x 74	2150 2497 180	4,03	
	T5 2x49W	104	vw	ECG EM pack 1h	1503 x 210 x 74	2150 2497 780	4,10	
	<i>Diffuser, opal direct distribution impact-resistant</i>							
	lens basic-LBAKPC	T5 1x14/24W	16	vw	ECG	603 x 210 x 74	2150 1924 181	0,95
		T5 1x21/39W	23	vw	ECG	903 x 210 x 74	2150 1934 181	2,32
		T5 1x28/54W	58	vw	ECG	1203 x 210 x 74	2150 1944 181	3,00
		T5 1x35/49/80W	52	vw	ECG	1503 x 210 x 74	2150 1954 181	3,20
T5 1x49W					ECG EM pack 1h	1503 x 210 x 74	2150 1497 181	3,73
					ECG EM pack B3	1503 x 210 x 74	2150 1497 781	3,80
					ECG EM pack 1h	1503 x 210 x 74	2150 1807 181	3,05
T5 1x80W					ECG EM pack B3	1503 x 210 x 74	2150 1807 781	3,12
					ECG	603 x 210 x 74	2150 2924 181	0,95
					ECG	903 x 210 x 74	2150 2934 181	2,32
T5 2x21/39W		46	vw	ECG	1203 x 210 x 74	2150 2944 181	3,30	
T5 2x28/54W		116	vw	ECG	1503 x 210 x 74	2150 2964 181	3,80	
T5 2x35/49W		104	vw	ECG	1503 x 210 x 74	2150 2497 181	4,03	
T5 2x49W		104	vw	ECG EM pack 1h	1503 x 210 x 74	2150 2497 781	4,10	
<i>Diffuser, prismatic direct distribution</i>								
lens basic-LBAP		T5 1x14/24W	16	vw	ECG	603 x 210 x 74	2150 1924 190	0,95
		T5 1x21/39W	23	vw	ECG	903 x 210 x 74	2150 1934 190	2,32
		T5 1x28/54W	58	vw	ECG	1203 x 210 x 74	2150 1944 190	3,00
		T5 1x35/49/80W	52	vw	ECG	1503 x 210 x 74	2150 1954 190	3,20
	T5 1x49W				ECG EM pack 1h	1503 x 210 x 74	2150 1497 190	3,73
					ECG EM pack B3	1503 x 210 x 74	2150 1497 790	3,80
					ECG EM pack 1h	1503 x 210 x 74	2150 1807 190	3,05
	T5 1x80W				ECG EM pack B3	1503 x 210 x 74	2150 1807 790	3,12
					ECG	603 x 210 x 74	2150 2924 190	0,95
					ECG	903 x 210 x 74	2150 2934 190	2,42
	T5 2x21/39W	46	vw	ECG	1203 x 210 x 74	2150 2944 190	3,30	
	T5 2x28/54W	116	vw	ECG	1503 x 210 x 74	2150 2964 190	3,80	
	T5 2x35/49W	104	vw	ECG	1503 x 210 x 74	2150 2497 190	4,03	
	T5 2x49W	104	vw	ECG EM pack 1h	1503 x 210 x 74	2150 2497 790	4,10	

## Replacement parts

Type	Colour	Material	Details	Item number			
<i>Lighting technology</i>							
Diffuser profile	Wannenprofil LBAK T5 14/24	tz	PMMA	for LBAK T5 1x14/24, 2x14/24	2150 9920 180	1	0,41
	Wannenprofil LBAK T5 21/39	tz	PMMA	for LBAK T5 1x21/39, 2x21/39	2150 9930 180	1	0,61
	Wannenprofil LBAK T5 28/54	tz	PMMA	for LBAK T5 1x28/54, 2x28/54	2150 9940 180	1	0,81
	Wannenprofil LBAK T5 35/49/80	tz	PMMA	for LBAK T5 1x35/49/80, 2x35/49	2150 9950 180	1	1,01
	Wannenprofil LBAKPC T5 14/24	tz	PC	for LBAKPC T5 1x14/24, 2x14/24	2150 9920 181	1	0,41
	Wannenprofil LBAKPC T5 21/39	tz	PC	for LBAKPC T5 1x21/39, 2x21/39	2150 9930 181	1	0,61
	Wannenprofil LBAKPC T5 28/54	tz	PC	for LBAKPC T5 1x28/54, 2x28/54	2150 9940 181	1	0,81
	Wannenprofil LBAKPC T5 35/49/80	tz	PC	for LBAKPC T5 1x35/49/80, 2x35/49	2150 9950 181	1	1,01
	Wannenprofil LBAP T5 14/24	kl	PMMA	for LBAP T5 1x14/24, 2x14/24	2150 9920 190	1	0,41
	Wannenprofil LBAP T5 21/39	kl	PMMA	for LBAP T5 1x21/39, 2x21/39	2150 9930 190	1	0,61
	Wannenprofil LBAP T5 28/54	kl	PMMA	for LBAP T5 1x28/54, 2x28/54	2150 9940 190	1	0,81
	Wannenprofil LBAP T5 35/49/80	kl	PMMA	for LBAP T5 1x35/49/80, 2x35/49	2150 9950 190	1	1,01





## KL

## KL surface-mounted diffuser luminaires – eternal classics

These surface-mounted diffuser luminaires as linear luminaire are all-rounders for many different applications. With their all-round closed diffusers they obtain best results with regard to their luminaire maintenance factor and are installed in the twinkling of an eye thanks to their time-saving connection technology via plug-in connection.

In addition the KL series luminaires can be protected from mechanical loads via a chromate wire protective cage. On request, all models can be equipped with an emergency lampholder or with other emergency light systems. The luminaires can be easily suspended from mounting rails, enabling even further possibilities for application.

### Type overview

- ▶ KLKF Diffuser, opal direct/indirect distribution
- ▶ KLPF Diffuser, prismatic direct/indirect distribution

# KLKF T5/T8



IP 50

**Mounting:**

- Ceiling surface

**Housing:**

- Sheet steel

**Lighting technology KLKF:**

- Diffuser, opal; PMMA plastic
- Lighting characteristic direct/indirect distribution

**Lighting technology KLKF:**

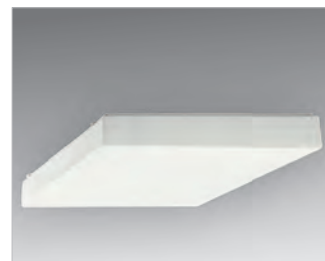
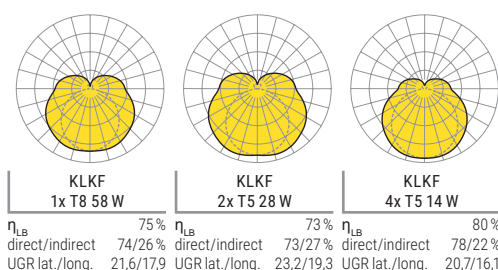
- Diffuser, opal; PMMA plastic
- Lighting characteristic direct/indirect distribution suited for VDU workstations,  $65^\circ < 1500 \text{ cd/m}^2$

**Lamp:**

- For fitting with lamp(s) T5 or T8

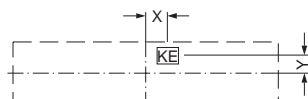
**Switching:**

- The number of control units varies according to the version
- Electronic ballast
- 230V 50Hz

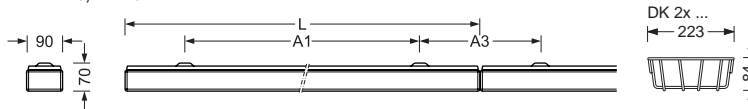


## Dimensions

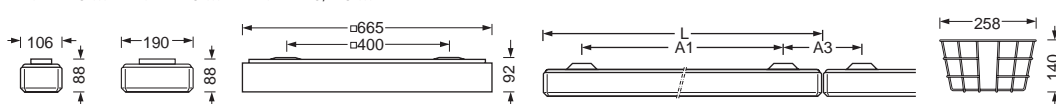
Type	Versions	LxBxH/DxH	A1	A3	A4	KE X/Y
KL.	T5 1x28, 54 W	1215 x 90 x 70	900	324	-	33 / 9
	T5 1x35, 49, 80 W	1515 x 90 x 70	1100	428	-	33 / 9
	T5 2x28, 54 W	1215 x 90 x 70	900	324	-	33 / 9
	T5 2x35, 49, 80 W	1515 x 90 x 70	1100	428	-	33 / 9
	T5 4x14, 24 W	665 x 665 x 92	400	-	400	0 / 15
	T8 1x18W	660 x 106 x 88	460	204	-	70 / 0
	T8 1x36W	1270 x 106 x 88	900	374	-	0 / 0
	T8 1x58W	1570 x 106 x 88	1200	374	-	0 / 0
	T8 2x36W	1270 x 190 x 88	900	374	-	30 / 15
	T8 2x58W	1570 x 190 x 88	1200	374	-	30 / 15
T8 4x18W	665 x 665 x 92	400	-	400	0 / 15	



KL. 1x T5, 2x T5



KL. 1x T8 ... KL. 2x T8 ... KL. 4x T5/T8 ...







## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, opal direct/indirect distribution</i>							
KLKF	T5 1x28/54W	60	vw	ECG	1215 x 90 x 70	2112 1944 120	1,80
	T5 1x35/49W	53	vw	ECG	1515 x 90 x 70	2112 1954 120	1,80
	T5 2x35/49W	106	vw	ECG	1515 x 90 x 70	2112 2964 120	2,20
	T5 2x28W	62	vw	ECG	1215 x 90 x 70	2112 2284 120	1,70
	T5 4x14W	64	vw	ECG	665 x 665 x 92	2110 4144 120	6,80
	T8 1x18W	19	vw	ECG	660 x 106 x 88	2110 1184 120	1,05
	T8 1x36W	36	vw	ECG	1270 x 106 x 88	2110 1364 120	1,60
	T8 1x58W	55	vw	ECG	1570 x 106 x 88	2110 1584 120	2,20
	T8 2x36W	72	vw	ECG	1270 x 190 x 88	2110 2364 120	2,85
	T8 2x58W	110	vw	ECG	1570 x 190 x 88	2110 2584 120	3,40
	T8 4x18W	76	vw	ECG	665 x 665 x 92	2110 4184 120	6,80

## Accessories

Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>						
Emergency lamp socket	E14 H	ws	Polymer	E14/IT-25 horiz. for T8	9452 0320 100	1 0,20
<i>Protection</i>						
Protective wire cage	DK 2/1200	gecr	St	for PA, PC, PFL, T5 2x28/54, T8 2x36; KL... T5 28/54	1116 2360 100	1 1,61
	DK 2/1500	gecr	St	for PA, PC, PFL, T5 2x35/49 T8 2x58; KL... T5 35/49	1116 2580 100	1 1,90
	DKK 1200	gecr	St.galv.	for KL...	2916 9360 100	1 2,19
	DKK 1500	gecr	St.galv.	for KL...	2916 9580 100	1 2,70
Protective cage mounting	DK -HBK 2/	vw	St.galv.	Retaining bracket for DK 2 / DKF	1885 8000 100	2 0,20
	DKK -HB	vw	St.galv.	Retaining bracket for DKK	2916 9000 100	2 0,10

## Replacement parts

Type	Colour	Material	Details	Item number		
<i>Lighting technology</i>						
Diffuser	Wanne KLKF 4/0600	tz	PMMA	for KLKF T8 4x18, T5 4x14	9247 4180 100	1 1,72
	Wanne KLKF 1200	tz	PMMA	for KLKF T5 28/54	9247 1200 100	1 0,32
	Wanne KLKF 1500	tz	PMMA	for KLKF T5 35/49	9247 1500 100	1 0,41
	Wanne KLKF 1/0600	tz	PMMA	for KLKF T8	9247 1180 100	1 0,18
	Wanne KLKF 1/1200	tz	PMMA	for KLKF T8	9247 1360 100	1 0,48
	Wanne KLKF 1/1500	tz	PMMA	for KLKF T8	9247 1580 100	1 0,53
	Wanne KLKF 2/1200	tz	PMMA	for KLKF T8	9247 2360 100	1 0,75
	Wanne KLKF 2/1500	tz	PMMA	for KLKF T8	9247 2580 100	1 0,77



# KLPF T5/T8



**Mounting:**

- Ceiling surface

**Housing:**

- Sheet steel

**Lighting technology KLPF:**

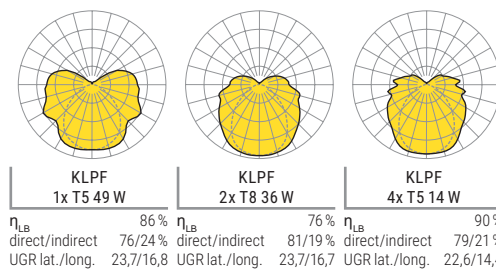
- Diffuser, prismatic; PMMA plastic
- Lighting characteristic direct/indirect distribution

**Lamp:**

- For fitting with lamp(s) T5 or T8

**Switching:**

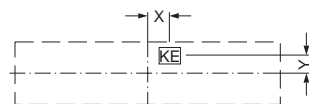
- The number of control units varies according to the version
- Electronic ballast
- 230V 50Hz



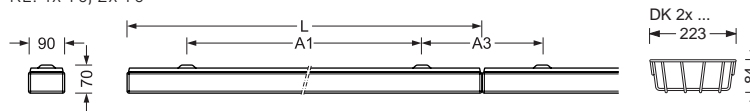
KLPF 4 x T5 ...  
KLPF 4 x T8 ...

## Dimensions

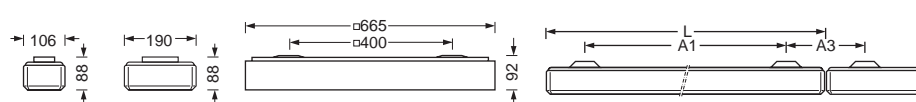
Type	Versions	LxBxH/DxH	A1	A3	A4	KE X/Y
KL.	T5 1x28, 54 W	1215 x 90 x 70	900	324	-	33 / 9
	T5 1x35, 49, 80 W	1515 x 90 x 70	1100	428	-	33 / 9
	T5 2x28, 54 W	1215 x 90 x 70	900	324	-	33 / 9
	T5 2x35, 49, 80 W	1515 x 90 x 70	1100	428	-	33 / 9
	T5 4x14, 24 W	665 x 665 x 92	400	-	400	0 / 15
	T8 1x18W	660 x 106 x 88	460	204	-	70 / 0
	T8 1x36W	1270 x 106 x 88	900	374	-	0 / 0
	T8 1x58W	1570 x 106 x 88	1200	374	-	0 / 0
	T8 2x36W	1270 x 190 x 88	900	374	-	30 / 15
	T8 2x58W	1570 x 190 x 88	1200	374	-	30 / 15
	T8 4x18W	665 x 665 x 92	400	-	400	0 / 15



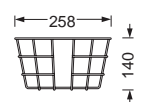
KL. 1x T5, 2x T5



KL. 1x T8 ... KL. 2x T8 ... KL. 4x T5/T8 ...



DKK





## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, prismatic direct/indirect distribution</i>							
KLPF	T5 1x28/54W	60	vw	ECG	1215 x 90 x 70	2112 1944 130	1,80
	T5 1x35/49W	53	vw	ECG	1515 x 90 x 70	2112 1954 130	1,80
	T5 2x35/49W	106	vw	ECG	1515 x 90 x 70	2112 2964 130	2,10
	T5 2x28W	62	vw	ECG	1215 x 90 x 70	2112 2284 130	1,60
	T5 4x14W	64	vw	ECG	665 x 665 x 92	2110 4144 130	6,80
	T8 1x18W	19	vw	ECG	660 x 106 x 88	2110 1184 130	1,05
	T8 1x36W	36	vw	ECG	1270 x 106 x 88	2110 1364 130	1,75
	T8 1x58W	55	vw	ECG	1570 x 106 x 88	2110 1584 130	2,25
	T8 2x36W	72	vw	ECG	1270 x 190 x 88	2110 2364 130	2,80
	T8 2x58W	110	vw	ECG	1570 x 190 x 88	2110 2584 130	3,32
T8 4x18W	76	vw	ECG	665 x 665 x 92	2110 4184 130	6,80	

## Accessories

Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>						
Emergency lamp socket	E14 H	ws	Polymer	E14/IT-25 horiz. for T8	9452 0320 100	1 0,20
<i>Protection</i>						
Protective wire cage	DK 2/1200	gecr	St	for PA, PC, PFL, T5 2x28/54, T8 2x36; KL... T5 28/54	1116 2360 100	1 1,61
	DK 2/1500	gecr	St	for PA, PC, PFL, T5 2x35/49 T8 2x58; KL... T5 35/49	1116 2580 100	1 1,90
	DKK 1200	gecr	St.galv.	for KL...	2916 9360 100	1 2,19
	DKK 1500	gecr	St.galv.	for KL...	2916 9580 100	1 2,70
Protective cage mounting	DK -HBK 2/	vw	St.galv.	Retaining bracket for DK 2 / DKF	1885 8000 100	2 0,20
	DKK -HB	vw	St.galv.	Retaining bracket for DKK	2916 9000 100	2 0,10

## Replacement parts

Type	Colour	Material	Details	Item number		
<i>Lighting technology</i>						
Diffuser	Wanne KLKF 1200	kl	PMMA	for KLPF, T5 28/54	9248 1200 100	1 0,33
	Wanne KLKF 1500	kl	PMMA	for KLPF T5 35/49	9248 1500 100	1 0,37
	Wanne KLPF 4/0600	tp	PMMA	for KLPF T8 4x18, T5 4x14	9248 4180 100	1 1,71
	Wanne KLPF 1/0600	tp	PMMA	for KLPF T8	9248 1180 100	1 0,18
	Wanne KLPF 1/1200	tp	PMMA	for KLPF T8	9248 1360 100	1 0,48
	Wanne KLPF 1/1500	tp	PMMA	for KLPF T8	9248 1580 100	1 0,53
	Wanne KLPF 2/1200	tp	PMMA	for KLPF T8	9248 2360 100	1 0,75
	Wanne KLPF 2/1500	tp	PMMA	for KLPF T8	9248 2580 100	1 0,77



# WL

## WL ceiling diffuser luminaires – day-to-day problem-solvers

No-frills luminaires with opal acrylic diffusers and a top luminaire maintenance factor. Universal and versatile, individual or group luminaires with harmonious, diffuse light.



### Type overview

- ▶ WBLR Diffuser, opal direct/indirect distribution
- ▶ WQL Diffuser, opal direct/indirect distribution



# WBLR LED/TC

LED A+ A++ 8000 650°C 0.20J 0.20Nm CE IP 40

**Mounting:**

- Ceiling surface
- Wall mounting

**Housing:**

- Sheet steel

**Lighting technology WBLR:**

- Diffuser, opal; PMMA plastic
- Lighting characteristic direct/indirect distribution

**Lamp LED:**

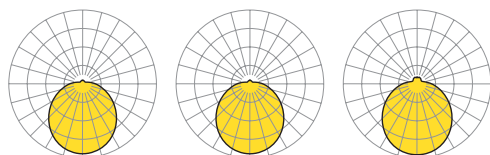
- LED 50000h L80/B10
- CRI ≥ 80 / 3000K or CRI ≥ 80 / 4000K

**Lamp:**

- For fitting with lamp(s) TC-DEL, TC-F or TC-TSE

**Switching:**

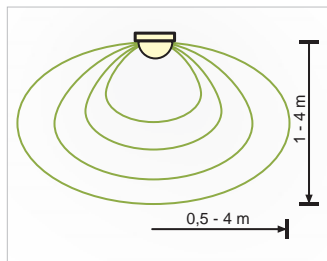
- 1 Control gear
- Electronic driver
- 230V 50Hz



WBLR/500 LED 4100 lm 840	WBLR/300 LED 1200 lm 840	WBLR 2x TC-DEL 36 W
$\eta_{LB}$ 100%	$\eta_{LB}$ 100%	$\eta_{LB}$ 62%
lm/W 94	lm/W 126	direct/indirect 84/16%
direct/indirect 88/12%	direct/indirect 88/12%	UGR lat./long. 20,4/20,4
UGR lat./long. 21,2/21,2	UGR lat./long. 19,9/19,9	VDU 65° < 3000cd/m <sup>2</sup>



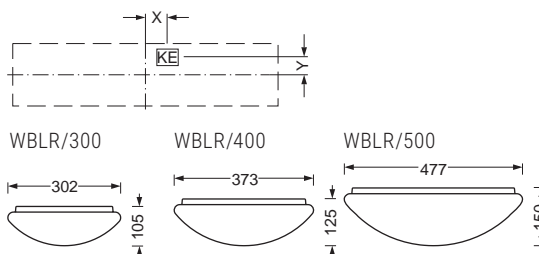
The silver-coloured decorative bezel is available as an accessory for an effective ceiling junction.




Detection zone of the S9 HF motion sensor.

## Dimensions



Type	Versions	LxBxH/DxH	A1	KE X/Y
WBLR	TC-DEL 2x18W	373 x 125	272	77 / 0
	TC-F 1x36W	373 x 125	272	77 / 0
	TC-F 2x14, 24 W	477 x 150	360	103 / 0
	TC-F 2x36W	477 x 150	360	103 / 0
	TC-TSE 1x23W	302 x 105	208	60 / 0
	TC-TSE 2x23W	373 x 125	272	77 / 0
WBLR/300	LED	302 x 105	208	60 / 0
WBLR/400	LED	373 x 125	272	77 / 0
WBLR/500	LED	477 x 150	360	103 / 0





## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, opal direct/indirect distribution</i>							
WBLR	TC-DEL 2x18W G24q-2	-	vw	ECG	373 x 125	2531 2184 110	2,35
	TC-F 1x36W 2G10	36	vw	ECG	373 x 125	2531 1364 110	2,21
	TC-F 2x24W 2G10	55	vw	ECG	477 x 150	2531 2244 110	3,24
	TC-F 2x36W 2G10	75	vw	ECG	477 x 150	2531 2364 110	2,74
	TC-TSE 1x23W E27	23	vw	-	302 x 105	2531 1230 110	3,24
	TC-TSE 2x23W E27	23	vw	-	373 x 125	2531 2230 110	3,24
WBLR/300	LED 1100lm 830	9	vw	ED	302 x 105	2531 0204 110	0,90
	LED 1200lm 840	9	vw	ED	302 x 105	2531 0214 110	0,90
WBLR/400	LED 1900lm 830	22	vw	ED	373 x 125	2531 0124 110	1,40
				EM pack 3h	373 x 125	2533 0124 110	1,90
				S9	373 x 125	2534 0124 110	1,60
	LED 2100lm 840	22	vw	ED	373 x 125	2531 0134 110	1,40
				EM pack 3h	373 x 125	2533 0134 110	1,90
				S9	373 x 125	2534 0134 110	1,60
WBLR/500	LED 2500lm 830	29	vw	ED	477 x 150	2531 0144 110	2,40
				EM pack 3h	477 x 150	2533 0144 110	2,90
				S9	477 x 150	2534 0144 110	2,60
	LED 2800lm 840	29	vw	ED	477 x 150	2531 0154 110	2,40
				EM pack 3h	477 x 150	2533 0154 110	2,90
				S9	477 x 150	2534 0154 110	2,60
	LED 3800lm 830	43	vw	ED	477 x 150	2531 0184 110	2,50
				S9	477 x 150	2534 0184 110	2,70
				LED 4100lm 840	43	vw	ED
S9	477 x 150	2534 0194 110	2,70				

## Accessories

Type	Colour	Material	Details	Item number		
<i>Design</i>						
Decorative ring WBLR-DR 318	si	St	D=318mm, H=5mm for WBLR /300, 2x9, 1x23	2531 1000 100	1	0,42
WBLR-DR 388	si	St	D=388mm, H=5mm for WBLR /400, 2x11, 2x18, 2x23	2531 2000 100	1	0,41
WBLR-DR 492	si	St	D=492mm, H=5mm for WBLR /500, 2x24, 2x36	2531 3000 100	1	0,42

## Replacement parts

Type	Colour	Material	Details	Item number		
<i>Lighting technology</i>						
Diffuser	Wanne WBLR glatt 302	tz	PMMA	D=302 mm for WBLR /300, 1x23, 2x9	2531 0300 110	1 0,17
	Wanne WBLR glatt 400	tz	PMMA	D=373 mm for WBLR /400, 2x11, 2x18, 1x36, 2x23 and with seal for WBLR	2531 0400 110	1 0,27
	Wanne WBLR glatt 500	tz	PMMA	D=477 mm for WBLR /500, 2x24, 2x36 and with seal for WBLR	2531 0500 110	1 0,47

# WQL LED

LED IP 65

**Mounting:**

- Ceiling surface
- Wall mounting

**Housing:**

- Polycarbonate

**Lighting technology WQL:**

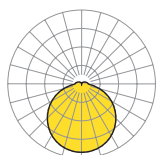
- Diffuser, opal; PMMA plastic
- Lighting characteristic direct/indirect distribution

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K or CRI ≥ 80 / 3000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

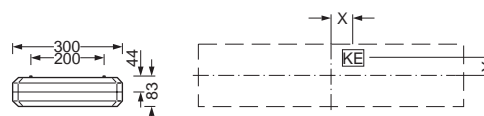


WQL LED  
1400 lm 840

$\eta_{Lb}$	100%
lm/W	106
direct/indirect	90/10%
UGR lat./long.	20,7/20,7

**Dimensions**

Type	Versions	LxBxH/DxH	A1	KE X/Y
WQL	LED	300 x 300 x 83	200	115 / 30



**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, opal direct/indirect distribution</i>							
WQL	LED 1300lm 830	13	vw	ED	300 x 300 x 83	2510 0024 100	1,52
	LED 1400lm 840	13	vw	ED	300 x 300 x 83	2510 0014 100	1,52

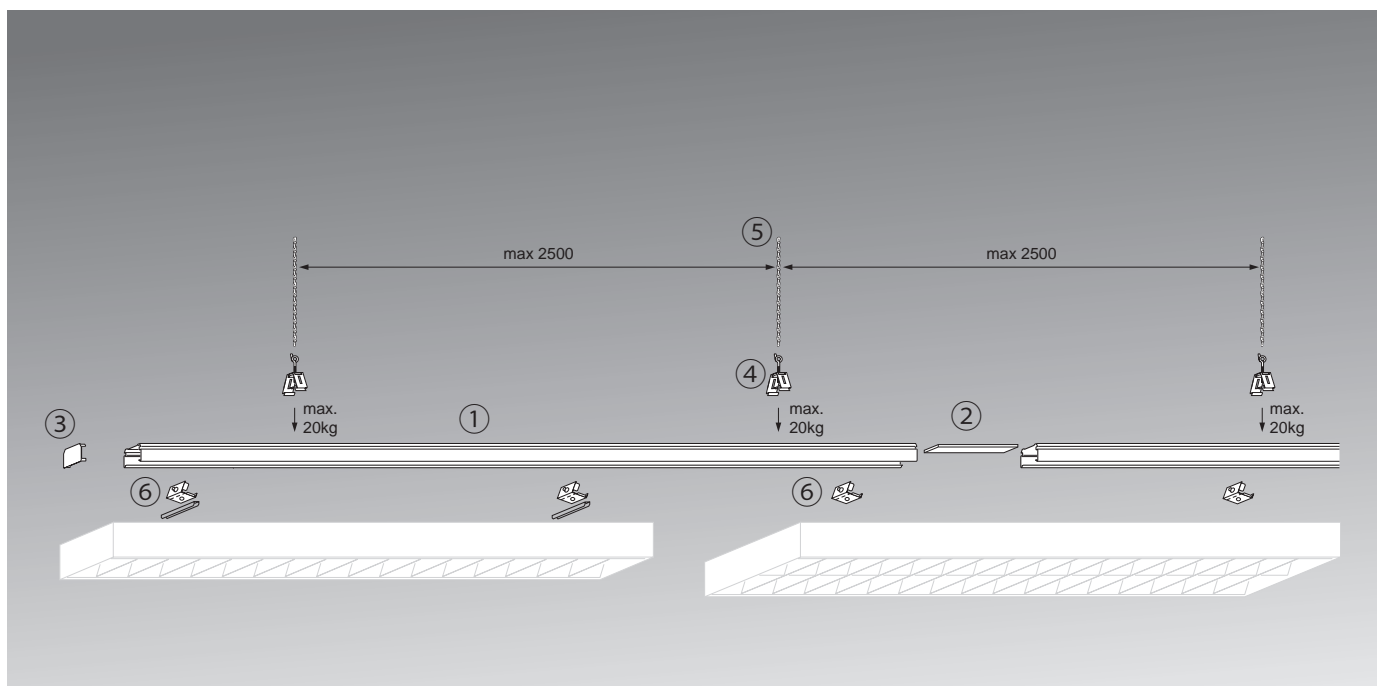
**Replacement parts**

Type	Colour	Material	Details	Item number	
<i>Lighting technology</i>					
Diffuser	tz	PMMA	L/B=300mm for WQL LED, 2x18	9221 9180 100	1 0,21





# Accessories for mounting rail installation



- ① SDT basic unwired mounting rail
- ② SDTSV mounting rail connector
- ③ SDTE mounting rail protective cover (end face)
- ④ Mounting rail fixing / suspension SDH/SDD/SDCT/SDRP/SDT-ZA/SDT-AP
- ⑤ Suspension (tube / chain)
- ⑥ Luminaire fixing SDLA/SDLAD

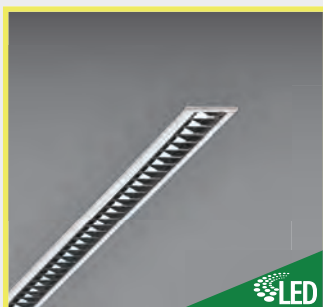
## Accessories

	Type	Colour	Material	Details	Item number	kg
<i>Design</i>						
Section cover	SDBAV 1500	vw	St	l=7x219=1533mm for SDT Basic	1884 5580 101	1 0,85
	SDBK 1500	vw	PVC	for SDT 1500, ATS	1883 7580 100	1 0,24
<i>Protection</i>						
Protective cover IP20	SDTE	vw	PC	for SDT, ATS	1890 0231 100	2 0,02
<i>Mounting</i>						
Single wire suspension	SDCS	ws	Stainless steel+mix	l=2000mm for SDT	1890 0034 100	1 0,07
	SDCSE	ws	Stainless steel+mix	Canopy D=123mm, wire D=1.5mm, L=2200mm, 3x1.5mm <sup>2</sup> for SDT	1890 0044 100	1 0,30
Chain suspension	KK	me	St	Chain l=30m, for SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1 4,60
	KP 80	me	St+PC	l=800mm for suspended luminaires	9282 9080 100	1 0,27
	SDH	me	Inox	for SDT, ATS at chain	1890 0039 100	1 0,04
	SDT -AP	me	St	for SDT	1890 0022 100	1 0,93
	SDT -ZA	me	St	for SDT	6820 9300 110	1 0,20
Tubular pendant suspension	RP 50	ws	St+PC	d=16mm, M13, l=500mm for suspended luminaires	9280 9050 100	1 0,25
	RP 80	ws	St+PC	d=16mm, M13, l=800mm for suspended luminaires	9280 9080 100	1 0,33
	RP 100	ws	St+PC	d=16mm, M13, l=1000mm for suspended luminaires	9280 9100 100	1 0,40
	SDRP	me	Stainless steel+mix	for SDT at tubular pendant RP	1890 0054 100	1 0,02
Mounting clip	SDCT	me	Inox	for SDT at visible T-rail	1890 0042 100	1 0,03
	SDD	me	Inox	for SDT at ceiling	1890 0033 100	1 0,01
<i>Structure</i>						
Luminaires fixing	SDLA	me	St.galv.	for SDT Basic	1890 0058 100	1 0,03
	SDLAD	me	St.galv.	for SDT Basic, KE-Y > 0mm und 2x for THLA+SDTT	1890 0068 100	1 0,07
Mounting rail	SDT Basic 1500/II	vw	St.galv.	l=3070mm 2.6kg for surface-mounted luminaires	1825 2580 150	1 2,60
	SDT Basic 1500/III	vw	St.galv.	l=4605mm 3.9kg for surface-mounted luminaires	1825 3580 150	1 3,90
Mounting rail connector	SDTSV	me	St.galv.	for SDT...Basic, ATS	1890 0092 100	1 0,30





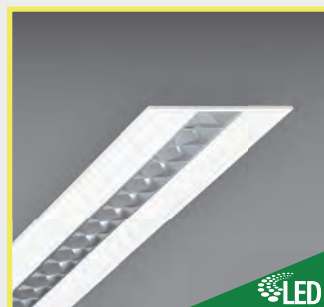
### hokal



### ►197

- ▶ 198 HLEX LED
- ▶ 198 HLEG LED
- ▶ 200 HLEG T5
- ▶ 200 HLED T5
- ▶ 200 HLEX T5

### RE



### ►205

- ▶ 206 RSEX LED
- ▶ 208 RSEX T5
- ▶ 208 RSED T5
- ▶ 208 RSEXA T5
- ▶ 208 RSEDA T5
- ▶ 210 RME T5
- ▶ 212 RSED T8
- ▶ 212 RSXE T8
- ▶ 212 RSXEA T8, RME T8

# Recessed luminaires

## planara



### ►177

- ▶ 178 PNEMP LED
- ▶ 178 PNEG LED
- ▶ 178 PNEO LED

## panella



### ►181

- ▶ 182 PEMP LED
- ▶ 182 PEO LED

## protection



### ►185

- ▶ 186 IPA-PREMP LED
- ▶ 186 IPA-PREG LED
- ▶ 188 PREMP LED
- ▶ 190 PREG LED
- ▶ 192 PREO LED
- ▶ 194 PREP T5
- ▶ 194 PREO T5
- ▶ 194 PREDS T5

## RE



### ►205

- ▶ 212 RSEDP T8
- ▶ 212 RSXEP T8
- ▶ 212 RMEP T8
- ▶ 212 RSED-VA T8
- ▶ 212 RSXE-VA T8
- ▶ 212 RME-VA T8

## UE



### ►217

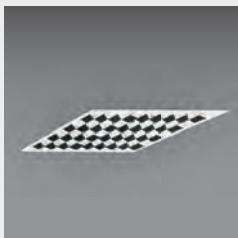
- ▶ 218 UEX LED
- ▶ 220 UED T5
- ▶ 220 UEM T5
- ▶ 220 UEX T5
- ▶ 222 UED T8
- ▶ 222 UESX T8
- ▶ 222 UEM T8





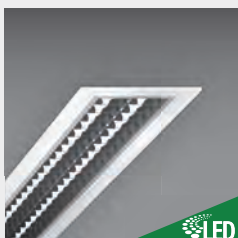
for ceilings with concealed asymmetrical construction

RE ▶ 214



for ceilings with concealed symmetrical construction

protection ▶ 194



RE ▶ 206



UE ▶ 218



# Recessed luminaires



for ceilings with visible T-rails

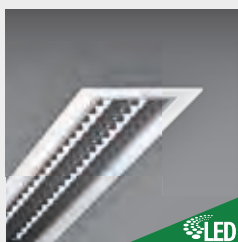
planara ▶ 178



panella ▶ 183



protection ▶ 194



RE ▶ 206



UE ▶ 218



for ceilings with panels

hokal ▶ 198



RE ▶ 214

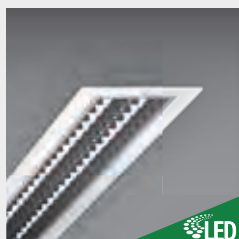


doma ▶ 250



for cut-out ceilings

protection ▶ 194



hokal ▶ 198



RE ▶ 206



UE ▶ 218



doma ▶ 252



relo ▶ 256



loda ▶ 260



rotara ▶ 264



rotara ▶ 266



THLE ▶ 32







# planara



## planara – light only

Is soft, homogeneous and shadow-free room light the aim of your lighting design? The planara LED recessed luminaire enters into an almost seamless synthesis with ceiling systems with visible T-rails. Integrated flatly and without a frame it has the effect of an artificial skylight. As an LED luminaire system of the latest generation it features an excellent energy efficiency and high lumen yield. A further plus point: The current standards for illumination of VDU workstations can also be achieved. The LED complete system is delivered ready for connection. As such, all requirements are met with confidence.



## Type overview

- ▶ PNEMP Diffuser, micro-prismatic direct distribution
- ▶ PNEG Diffuser, satined direct distribution
- ▶ PNEO Diffuser, opal direct distribution
- ▶ PNE./6 IP.. for 600 x 600 mm ceiling systems



# planara LED



LED A+ 3000h 50000h CE IP 54

**Mounting:**

- Ceiling recessed

**Housing:**

- Sheet steel
- Suitable for ceiling system: ceilings with visible T-rails/24mm

**Lighting technology PNEMP:**

- Diffuser, micro-prismatic; PMMA plastic
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 3000 cd/m²

**Lighting technology PNEG:**

- Diffuser, satined; PMMA plastic
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 3000 cd/m²

**Lighting technology PNEO:**

- Diffuser, opal; PMMA plastic
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 3000 cd/m²

**Lamp:**

- LED 100000h L80/B10
- CRI ≥ 80 / 4000K

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 3000K-6000K continuously adjustable

**Switching:**

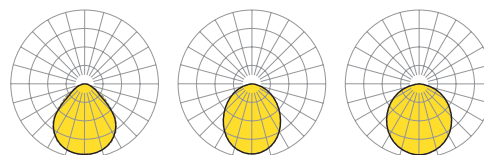
- 1 Control gear
- Electronic driver
- 230V 50Hz

**Miscellaneous:**

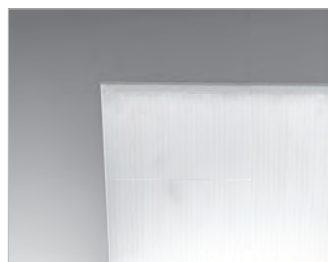
- Luminaire in tunable white technology for Human Centric Lighting

**Accessories:**

- Controls must be ordered separately, on request depending on application.



PNEMP/625 IP 54 LED 4100 lm 840	PNEG/625 IP 54 LED 4000 lm 840	PNEO/600 IP 54 LED 3800 lm 840
$\eta_{LB}$ 100% lm/W 133	$\eta_{LB}$ 100% lm/W 130	$\eta_{LB}$ 100% lm/W 122
direct/indirect 100/0%	direct/indirect 100/0%	direct/indirect 100/0%
UGR lat./long. 17,3/17,8	UGR lat./long. 19,7/19,7	UGR lat./long. 20,6/20,5
VDU 65° < 3000cd/m²	VDU 65° < 3000cd/m²	VDU 65° < 3000cd/m²



planara PNEMP microprism diffuser



Frosted pane of the planara PNEG.

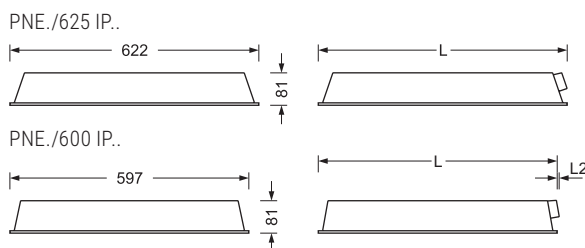


planara PNEO opal diffuser

## Dimensions

Type	Versions	L2	LxBxH/DxH	T	MLxMB	Et <sup>1)</sup>
PNE./600 IP..	LED	5	597 x 597 x 81	81	600 x 600	180
PNE./625 IP..	LED	-	622 x 622 x 81	81	625 x 625	180

<sup>1)</sup>e = minimum ceiling distance (however only when ceiling construction and luminaires are simultaneously installed): 180 mm





Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, micro-prismatic direct distribution</i>							
planara-PNEMP/600 IP 54	LED 4100lm 840	31	vw	ED <sup>1)</sup>	597 x 597 x 81	7226 5014 150	4,30
				DALI <sup>1)</sup>	597 x 597 x 81	7226 5016 650	4,30
planara-PNEMP/625 IP 54	LED 4100lm 840	31	vw	ED <sup>1)</sup>	622 x 622 x 81	7220 5014 150	4,50
				DALI <sup>2)</sup>	622 x 622 x 81	7220 5016 650	4,50
	LED 4600lm 830-860	39	vw	DALI DT8 <sup>2)</sup>	622 x 622 x 81	7220 5066 950	4,50
<i>Diffuser, opal direct distribution</i>							
planara-PNEO/600 IP 54	LED 3800lm 840	31	vw	ED <sup>1)</sup>	597 x 597 x 81	7226 5014 180	4,30
				DALI <sup>1)</sup>	597 x 597 x 81	7226 5016 680	4,30
planara-PNEO/625 IP 54	LED 3800lm 840	31	vw	ED <sup>1)</sup>	622 x 622 x 81	7220 5014 180	4,50
				DALI <sup>1)</sup>	622 x 622 x 81	7220 5016 680	4,50
	LED 4200lm 830-860	39	vw	DALI DT8 <sup>2)</sup>	622 x 622 x 81	7220 5066 980	4,50
<i>Diffuser, satined direct distribution</i>							
planara-PNEG/600 IP 54	LED 4000lm 840	31	vw	ED <sup>1)</sup>	597 x 597 x 81	7226 5014 110	4,30
				DALI <sup>1)</sup>	597 x 597 x 81	7226 5016 610	4,30
planara-PNEG/625 IP 54	LED 4000lm 840	31	vw	ED <sup>1)</sup>	622 x 622 x 81	7220 5014 110	4,50
				DALI <sup>1)</sup>	622 x 622 x 81	7220 5016 610	4,50
	LED 4500lm 830-860	39	vw	DALI DT8 <sup>2)</sup>	622 x 622 x 81	7220 5066 910	4,50

<sup>1)</sup> Luminaire with tunable white technology suitable for Human Centric Lighting (HCL).



# panella

## panella – the panel luminaire with a compelling specification

If economy of the lighting system is an essential criterion, then this luminaire demands serious consideration because it offers a compelling balance between quality and price. High quality, also VDU-compatible lighting technology, varied installation options and durability have not been sacrificed for price.



### Type overview

- ▶ PEMP Diffuser, micro-prismatic direct distribution
- ▶ PEO Diffuser, opal direct distribution
- ▶ PE./625 IP.. for 625 x 625 mm ceiling systems
- ▶ PE./600 IP.. for 600 x 600 mm ceiling systems



# panella LED



LED IP 40

**Mounting:**

- Ceiling recessed
- Ceiling surface

**Housing:**

- Aluminium, frame white powder coated
- Suitable for ceiling system: ceilings with visible T-rails; cut-out ceilings

**Lighting technology PEMP:**

- Diffuser, micro-prismatic; PMMA plastic
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 3000 cd/m²

**Lighting technology PEO:**

- Diffuser, opal; PMMA plastic
- Lighting characteristic direct distribution

**Lamp:**

- LED 50000h L70/B10
- CRI ≥ 80 / 4000K or CRI ≥ 80 / 3000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

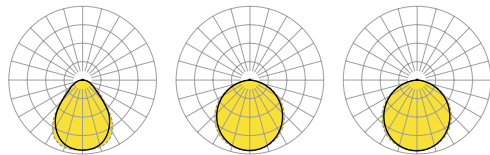
**Miscellaneous:**

- External LED driver with luminaire wired via 400 mm flexible connection cable ready for operation.

**Mounting instructions:**

- Surface housing on request

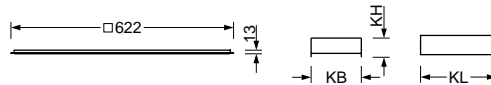
panella-PEMP/625 LED



Model	Beam Spread	Light Output (lm)	Efficiency (lm/W)	Direct/Indirect %	UGR (lat./long.)	VDU (cd/m²)
PEMP/625 LED	111°	3800	840	98/2%	17,9/18,3	65° < 3000
PEO/625 LED	113°	3900	830	98/2%	20,8/21,4	
PEO/625 LED	119°	4100	840	98/2%	21,0/21,5	

**Dimensions**

Type	Versions	LxBxH/DxH	T	KL	KB	KH	MLxMB	Et	DA <sub>i</sub> xDA <sub>s</sub>	Et
PE./625 IP.. LED		622 x 622 x 13	13	105	69	33	625 x 625	100	612 x 612	100

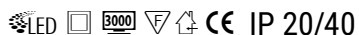


**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, micro-prismatic direct distribution</i>							
panella-PEMP/625	LED 3600lm 830	35	vw	ED	622 x 622 x 13	6015 3034 150	3,99
				DALI	622 x 622 x 13	6015 3036 650	3,99
	LED 3800lm 840	35	vw	ED	622 x 622 x 13	6015 4034 150	3,99
				DALI	622 x 622 x 13	6015 4036 650	3,99
<i>Diffuser, opal direct distribution</i>							
panella-PEO/625	LED 3900lm 830	35	vw	ED	622 x 622 x 13	6015 3034 110	3,99
				DALI	622 x 622 x 13	6015 3036 610	3,99
	LED 4100lm 840	35	vw	ED	622 x 622 x 13	6015 4034 110	3,99
				DALI	622 x 622 x 13	6015 4036 610	3,99

**Accessories**

Type	Colour	Material	Details	Item number	kg
<i>Mounting</i>					
Fastening bracket	me	St	for panella 625	6015 0003 100	4 0,08
Securing	me	St	for UE, RSE..., RSXE, RME, BEL..., PNE..., PRE..., PEMP/625..., PEO/625...	7995 0000 100	4 0,10



### Mounting:

- Ceiling recessed
- Ceiling surface
- Suspended

### Housing:

- Aluminium, frame white powder coated
- Suitable for ceiling system: ceilings with visible T-rails

### Lighting technology PEMP:

- Diffuser, micro-prismatic; PMMA plastic
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 3000 \text{ cd/m}^2$

### Lighting technology PEO:

- Diffuser, opal; PMMA plastic
- Lighting characteristic direct distribution

### Lamp:

- LED 50000h L70/B10
- CRI  $\geq 80$  / 4000K or CRI  $\geq 80$  / 3000K

### Switching:

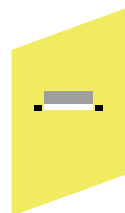
- 1 Control gear
- Electronic driver
- 230V 50Hz

### Miscellaneous:

- External LED driver with luminaire wired via 400 mm flexible connection cable ready for operation.

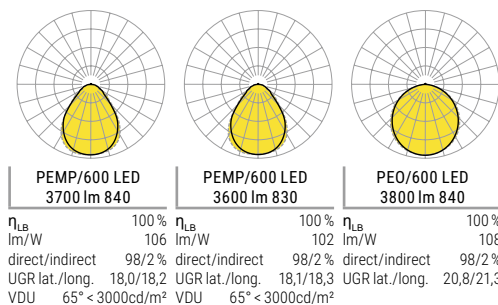
### Mounting instructions:

- IP20 with surface mounted and suspended installation
- IP40 with insertion mounting

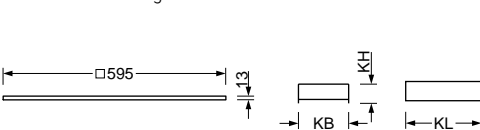


### Dimensions

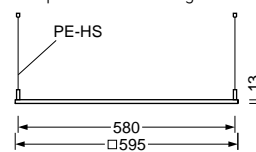
Type	Versions	LxBxH/DxH	T	KL	KB	KH	MLxMB	Et
PE./600 IP..	LED	595 x 595 x 13	13	105	69	33	600 x 600	100



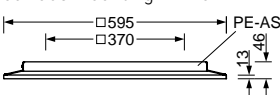
### Insertion mounting



### Suspended mounting



### Surface mounting PE-AS



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, micro-prismatic direct distribution</i>							
panella-PEMP/600	LED 3600lm 830	35	vw	ED	595 x 595 x 13	6016 3034 150	3,79
				DALI	595 x 595 x 13	6016 3036 650	3,79
	LED 3700lm 840	35	vw	ED	595 x 595 x 13	6016 4034 150	3,79
				DALI	595 x 595 x 13	6016 4036 650	3,79
<i>Diffuser, opal direct distribution</i>							
panella-PEO/600	LED 3600lm 830	35	vw	ED	595 x 595 x 13	6016 3034 110	3,79
				DALI	595 x 595 x 13	6016 3036 610	3,79
	LED 3800lm 840	35	vw	ED	595 x 595 x 13	6016 4034 110	3,79
				DALI	595 x 595 x 13	6016 4036 610	3,79

## Accessories

Type	Colour	Material	Details	Item number	kg
<i>Mounting</i>					
Single wire suspension	me	Mix	for panella 600	6015 0001 100	4 0,17
Mounting-ceiling	vw	St	for panella 600	6015 0002 100	1 0,90





# protection

## protection – elegant light field luminaires for system ceilings

Luminaire housing with a slim turned-up metal frame colour traffic white (RAL 9016), an acrylic diffuser with naturally anodised aluminium edge trim, subtly differentiated use of materials and attractive aesthetic. Basic shape square or rectangular, protection offers a wide range of applications for general or basic lighting. Installation in ceiling systems with visible T-rails, concealed symmetrical rail constructions or recesses. The fitting can be equipped with T5 fluorescent lamps or modern LED technology. Modern, low-maintenance panel fitting solutions that produce a pleasant, even, diffused light. Break up continuous modular ceiling systems and assist with orientation or accentuates areas.

The protection light fitting is available up to protection rating IP54 and can therefore be installed in environments subject to dust and splashing. The electrical connection is via a terminal clamp with plug-in contacts. Simple, easy to install and safe.



### Type overview

- ▶ PREMP Diffuser, micro-prismatic direct distribution
- ▶ PREG Diffuser, satined direct distribution
- ▶ PREO Diffuser, opal direct distribution
- ▶ PREP Diffuser, prismatic direct distribution
- ▶ PREDS Parabolic louvre, highly specular direct distribution
- ▶ PRE./625 IP.. for 625 x 625 mm ceiling systems
- ▶ PRE./300-1200 IP.. for 300 x 1200 mm ceiling systems
- ▶ PRE./312-1250 IP.. for 312,5 x 1250 mm ceiling systems
- ▶ PRE./600 IP.. for 600 x 600 mm ceiling systems
- ▶ PRE. IP.. for ceiling systems 625 x 625 mm or 312.5 x 1250 mm and 625 x 1250 mm
- ▶ PRE./3 IP.. for 300 mm ceiling systems
- ▶ PRE./6 IP.. for 600 mm ceiling systems



# protection IPA LED



LED 3000 [E] [E] [E] CE IP 54

**Mounting:**

- Ceiling recessed

**Housing:**

- Sheet steel
- Suitable for ceiling system: ceilings with visible T-rails; concealed symmetrical rail construction; cut-out ceilings

**Lighting technology PREMP:**

- Diffuser, micro-prismatic; PMMA plastic
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 3000 cd/m²

**Lighting technology PREG:**

- Diffuser, satined; PMMA plastic
- Lighting characteristic direct distribution

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Switching:**

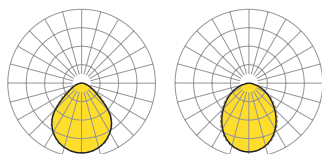
- 1 Control gear
- Electronic driver
- 230V 50Hz

**Miscellaneous:**

- An extractor is included for prismatic panes to remove the sealing frame.

**Accessories:**

- UBM universal fastening mechanism for concealed symmetrical rail constructions included in delivery.



IPA-PREMP/625 IP54 LED 4200 lm 840		PREG/300-1200 IP54 LED 4700 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	112	lm/W	118
direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	18,3/18,7	UGR lat./long.	20,9/21,4
VDU	65° < 3000cd/m²		

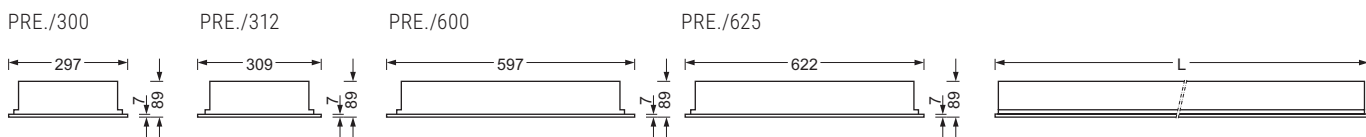


The diffuser frame is natural anodised. Different ceiling modules are compensated for in the width of the housing

**Dimensions**

Type	Versions	LxBxH/DxH	T	MLxMB [E]	Et <sup>1)</sup>	MLxMB [E]	Et	DA <sub>L</sub> xDA <sub>B</sub> [E]	Et	DS min/max
PRE./300-1200 IP..	LED	1197 x 297 x 89	82	1200 x 300	250	1200 x 300	150	1185 x 285	150	15 - 40
PRE./312-1250 IP..	LED	1247 x 309 x 89	82	1250 x 312,5	250	1250 x 312,5	150	1185 x 285	150	15 - 40
PRE./600 IP..	LED	597 x 597 x 89	82	600 x 600	250	600 x 600	150	585 x 585	150	15 - 40
PRE./625 IP..	LED	622 x 622 x 89	82	625 x 625	250	625 x 625	150	585 x 585	150	15 - 40

<sup>1)</sup>e = minimum ceiling distance (however only when ceiling construction and luminaires are simultaneously installed): 150 mm





## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, micro-prismatic direct distribution</i>							
protection IPA-PREMP/300-1200 IP54 LED 4700lm 840		40	vw	ED <sup>1)</sup>	1197 x 297 x 89	7253 2034 153	6,65
				DALI <sup>1)</sup>	1197 x 297 x 89	7253 2036 653	6,65
protection IPA-PREMP/312-1250 IP54 LED 4700lm 840		40	vw	ED <sup>1)</sup>	1247 x 309 x 89	7251 2034 153	6,71
				DALI <sup>1)</sup>	1247 x 309 x 89	7251 2036 653	6,71
protection IPA-PREMP/600 IP54	LED 4200lm 840	37	vw	ED <sup>2)</sup>	597 x 597 x 89	7256 0014 153	5,30
				DALI <sup>2)</sup>	597 x 597 x 89	7256 0016 653	5,30
protection IPA-PREMP/625 IP54	LED 4200lm 840	37	vw	ED <sup>3)</sup>	622 x 622 x 89	7250 0014 153	5,30
				DALI <sup>2)</sup>	622 x 622 x 89	7250 0016 653	5,30
<i>Diffuser, satin direct distribution</i>							
protection IPA-PREG/300-1200 IP54	LED 4700lm 840	40	vw	ED <sup>1)</sup>	1197 x 297 x 89	7253 2034 113	6,65
				DALI <sup>1)</sup>	1197 x 297 x 89	7253 2036 613	6,65
protection IPA-PREG/312-1250 IP54	LED 4700lm 840	40	vw	ED <sup>1)</sup>	1247 x 309 x 89	7251 2034 113	6,71
				DALI <sup>1)</sup>	1247 x 309 x 89	7251 2036 613	6,71
protection IPA-PREG/600 IP54	LED 4200lm 840	37	vw	ED <sup>2)</sup>	597 x 597 x 89	7256 0014 113	5,30
				DALI <sup>2)</sup>	597 x 597 x 89	7256 0016 613	5,30
protection IPA-PREG/625 IP54	LED 4200lm 840	37	vw	ED <sup>2)</sup>	622 x 622 x 89	7250 0014 113	5,30
				DALI <sup>2)</sup>	622 x 622 x 89	7250 0016 613	5,30

<sup>1)</sup> [Clean] Suitable for use in cleanrooms.

<sup>2)</sup> Additional certification: [Clean] [Clean]: Suitable for use in cleanrooms.

<sup>3)</sup> [Clean tested]: This luminaire has been tested by the Fraunhofer Institute IPA. [Clean] Suitable for use in cleanrooms.

## Accessories

Type	Colour	Material	Details	Item number	kg	
<i>Mounting</i>						
Tool	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1 0,08

# protection LED



LED A++ A+ 3000 F TV CE IP 54

**Mounting:**

- Ceiling recessed

**Housing:**

- Sheet steel
- Suitable for ceiling system: ceilings with visible T-rails; concealed symmetrical rail construction; cut-out ceilings

**Lighting technology PREMP:**

- Diffuser, micro-prismatic; PMMA plastic
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 3000 cd/m²

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

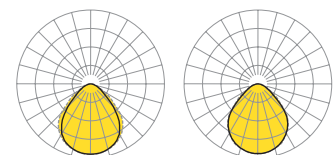
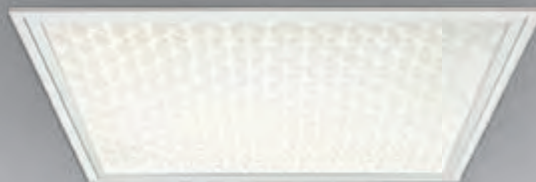
**Miscellaneous:**

- An extractor is included for prismatic panes to remove the sealing frame.

**Accessories:**

- UBM universal mounting brackets for concealed symmetrical rail constructions and cut-out ceilings and SCT safety clips for ceilings with visible T-rails please order separately.

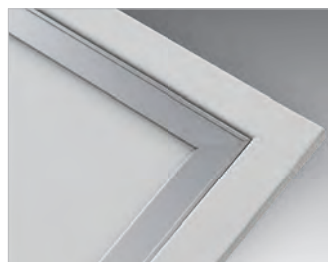
protection-PREMP/600 LED  
protection-PREMP/625 LED



PREMP/312-1250 IP54 LED 4700 lm 840		PREMP/625 IP54 LED 4200 lm 840	
$\eta_{LB}$	100 %	$\eta_{LB}$	100 %
lm/W	117	lm/W	112
direct/indirect	100/0 %	direct/indirect	100/0 %
UGR lat./long.	18,3/19,4	UGR lat./long.	18,3/18,7
VDU	65° < 3000cd/m²	VDU	65° < 3000cd/m²



The prismatic diffuser frame is removed with an extractor supplied with the luminaire.

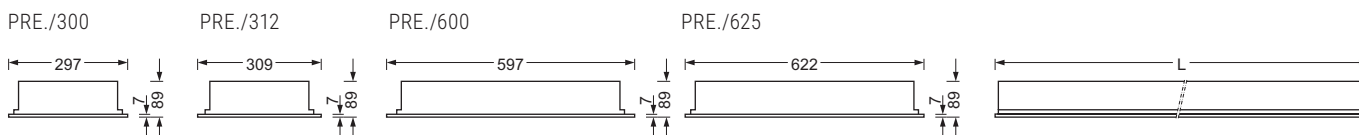


The diffuser frame is natural anodised. Different ceiling modules are compensated for in the width of the housing

**Dimensions**

Type	Versions	LxBxH/DxH	T	MLxMB	Et <sup>1)</sup>	MLxMB	Et	DA <sub>x</sub> DA <sub>B</sub>	Et	DS min/max
PRE./300-1200 IP..	LED	1197 x 297 x 89	82	1200 x 300	250	1200 x 300	150	1185 x 285	150	15 - 40
PRE./312-1250 IP..	LED	1247 x 309 x 89	82	1250 x 312,5	250	1250 x 312,5	150	1185 x 285	150	15 - 40
PRE./600 IP..	LED	597 x 597 x 89	82	600 x 600	250	600 x 600	150	585 x 585	150	15 - 40
PRE./625 IP..	LED	622 x 622 x 89	82	625 x 625	250	625 x 625	150	585 x 585	150	15 - 40

<sup>1)</sup>e = minimum ceiling distance (however only when ceiling construction and luminaires are simultaneously installed): 150 mm





protection-PREMP/300-1200 LED  
protection-PREMP/312-1250 LED



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, micro-prismatic direct distribution</i>							
protection-PREMP/300-1200 IP54	LED 4700lm 840	40	vw	ED	1197 x 297 x 89	7253 2034 150	6,65
				DALI	1197 x 297 x 89	7253 2036 650	6,65
protection-PREMP/312-1250 IP54	LED 4700lm 840	40	vw	ED	1247 x 309 x 89	7251 2034 150	6,71
				DALI	1247 x 309 x 89	7251 2036 650	6,71
protection-PREMP/600 IP54	LED 4200lm 840	37	vw	ED <sup>1)</sup>	597 x 597 x 89	7256 0014 150	5,30
				DALI <sup>1)</sup>	597 x 597 x 89	7256 0016 650	5,30
protection-PREMP/625 IP54	LED 4200lm 840	37	vw	ED <sup>1)</sup>	622 x 622 x 89	7250 0014 150	5,30
				DALI <sup>1)</sup>	622 x 622 x 89	7250 0016 650	5,30

<sup>1)</sup>Additional certification:

## Accessories

	Type	Colour	Material	Details	Item number	kg
<i>Mounting</i>						
Fastening bracket	UBM	me	St	for PRE. LED	7995 0404 100	4 0,17
Securing	SCT CLIPS	me	St	for UE, RSE..., RSXE, RME, BEL..., PNE..., PRE..., PEMP/625..., PEO/625...	7995 0000 100	4 0,10



# protection LED



LED A++ A+  $\ominus$   $\nabla$   $\text{TV}$   $\text{CE}$  IP 54

**Mounting:**

- Ceiling recessed

**Housing:**

- Sheet steel
- Suitable for ceiling system: ceilings with visible T-rails; concealed symmetrical rail construction; cut-out ceilings

**Lighting technology PREG:**

- Diffuser, satined; PMMA plastic
- Lighting characteristic direct distribution

**Lamp:**

- LED 50000h L80/B10
- CRI  $\geq$  80 / 4000K

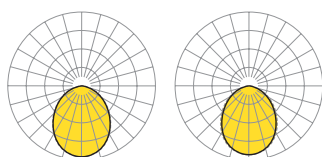
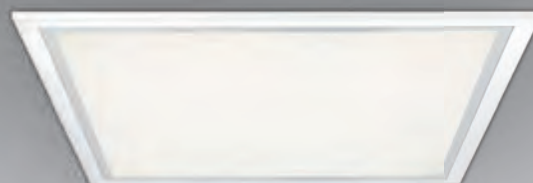
**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

**Accessories:**

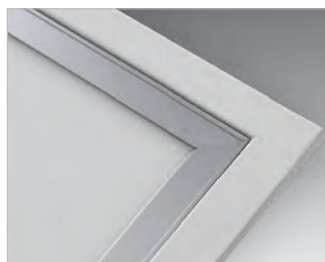
- UBB universal mounting brackets for concealed symmetrical rail constructions or recessed ceilings and SCT CLIPS locking clips for ceilings with visible T-rails please order separately. A suction holder SH 55 is needed to pull off the pane frame.

protection-PREG/600 LED  
protection-PREG/625 LED



<b>PREG/625 IP54 LED</b> 4200 lm 840	<b>PREG/300-1200 IP54</b> LED 4700 lm 840
---	--

$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	114	lm/W	118
direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	20,6/20,8	UGR lat./long.	20,9/21,4

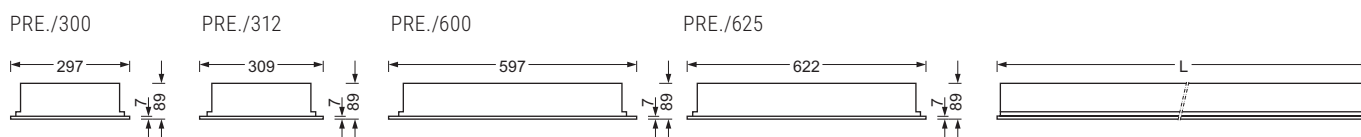


The diffuser frame is natural anodised. Different ceiling modules are compensated for in the width of the housing

## Dimensions

Type	Versions	LxBxH/DxH	T	MLxMB	Et <sup>1)</sup>	MLxMB	Et	DA <sub>x</sub> DA <sub>0</sub>	Et	DS min/max
PRE./300-1200 IP..	LED	1197 x 297 x 89	82	1200 x 300	250	1200 x 300	150	1185 x 285	150	15 - 40
PRE./312-1250 IP..	LED	1247 x 309 x 89	82	1250 x 312,5	250	1250 x 312,5	150	1185 x 285	150	15 - 40
PRE./600 IP..	LED	597 x 597 x 89	82	600 x 600	250	600 x 600	150	585 x 585	150	15 - 40
PRE./625 IP..	LED	622 x 622 x 89	82	625 x 625	250	625 x 625	150	585 x 585	150	15 - 40

<sup>1)</sup>e = minimum ceiling distance (however only when ceiling construction and luminaires are simultaneously installed): 150 mm





protection-PREG/300-1200 LED  
protection-PREG/312-1250 LED



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, satined direct distribution</i>							
protection-PREG/300-1200 IP54	LED 4700lm 840	40	vw	ED	1197 x 297 x 89	7253 2034 110	6,65
				DALI	1197 x 297 x 89	7253 2036 610	6,65
protection-PREG/312-1250 IP54	LED 4700lm 840	40	vw	ED	1247 x 309 x 89	7251 2034 110	6,71
				DALI	1247 x 309 x 89	7251 2036 610	6,71
protection-PREG/600 IP54	LED 4200lm 840	37	vw	ED <sup>1)</sup>	597 x 597 x 89	7256 0014 110	5,30
				DALI <sup>1)</sup>	597 x 597 x 89	7256 0016 610	5,30
protection-PREG/625 IP54	LED 4200lm 840	37	vw	ED <sup>1)</sup>	622 x 622 x 89	7250 0014 110	5,30
				DALI <sup>1)</sup>	622 x 622 x 89	7250 0016 610	5,30

<sup>1)</sup>Additional certification:

## Accessories

Type	Colour	Material	Details	Item number	kg	
<i>Mounting</i>						
Fastening bracket	UBM	me	St	for PRE. LED	7995 0404 100	4 0,17
Securing	SCT CLIPS	me	St	for UE, RSE..., RSXE, RME, BEL..., PNE..., PRE..., PEMP/625..., PEO/625...	7995 0000 100	4 0,10
Tool	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1 0,08

# protection LED



LED A++ A+  $\ominus$   $\nabla$   $\text{TV}$   $\text{CE}$  IP 54

**Mounting:**

- Ceiling recessed

**Housing:**

- Sheet steel
- Suitable for ceiling system: ceilings with visible T-rails; concealed symmetrical rail construction; cut-out ceilings

**Lighting technology PREO:**

- Diffuser, opal; PMMA plastic
- Lighting characteristic direct distribution

**Lamp:**

- LED 50000h L80/B10
- CRI  $\geq$  80 / 4000K

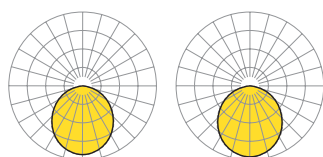
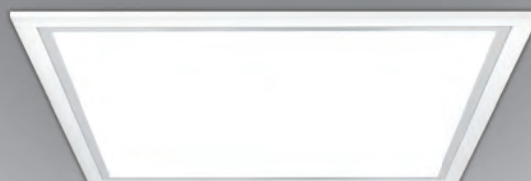
**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

**Accessories:**

- UBB universal mounting brackets for concealed symmetrical rail constructions or recessed ceilings and SCT CLIPS locking clips for ceilings with visible T-rails please order separately. A suction holder SH 55 is needed to pull off the pane frame.

protection-PREO/600 LED  
protection-PREO/625 LED



<b>PREO/600 IP54 LED</b> 3900 lm 840	<b>PREO/312-1250 IP54</b> LED 4300 lm 840
---	--

$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	104	lm/W	107
direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	21,1/21,2	UGR lat./long.	21,7/21,9

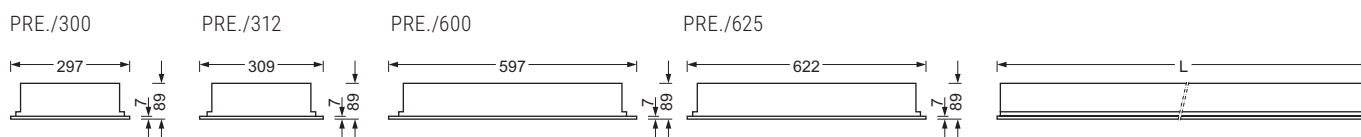


The diffuser frame is natural anodised. Different ceiling modules are compensated for in the width of the housing

## Dimensions

Type	Versions	LxBxH/DxH	T	MLxMB	Et <sup>1)</sup>	MLxMB	Et	DA <sub>x</sub> DA <sub>0</sub>	Et	DS min/max
PRE./300-1200 IP..	LED	1197 x 297 x 89	82	1200 x 300	250	1200 x 300	150	1185 x 285	150	15 - 40
PRE./312-1250 IP..	LED	1247 x 309 x 89	82	1250 x 312,5	250	1250 x 312,5	150	1185 x 285	150	15 - 40
PRE./600 IP..	LED	597 x 597 x 89	82	600 x 600	250	600 x 600	150	585 x 585	150	15 - 40
PRE./625 IP..	LED	622 x 622 x 89	82	625 x 625	250	625 x 625	150	585 x 585	150	15 - 40

<sup>1)</sup>e = minimum ceiling distance (however only when ceiling construction and luminaires are simultaneously installed): 150 mm





protection-PREO/300-1200 LED  
protection-PREO/312-1250 LED



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, opal direct distribution</i>							
protection-PREO/300-1200 IP54	LED 4300lm 840	40	vw	ED	1197 x 297 x 89	7253 2034 180	6,65
				DALI	1197 x 297 x 89	7253 2036 680	6,65
protection-PREO/312-1250 IP54	LED 4300lm 840	40	vw	ED	1247 x 309 x 89	7251 2034 180	6,71
				DALI	1247 x 309 x 89	7251 2036 680	6,71
protection-PREO/600 IP54	LED 3900lm 840	37	vw	ED <sup>1)</sup>	597 x 597 x 89	7256 0014 180	5,30
				DALI <sup>1)</sup>	597 x 597 x 89	7256 0016 680	5,30
protection-PREO/625 IP54	LED 3900lm 840	37	vw	ED <sup>1)</sup>	622 x 622 x 89	7250 0014 180	5,30
				DALI <sup>1)</sup>	622 x 622 x 89	7250 0016 680	5,30

<sup>1)</sup>Additional certification:

## Accessories

Type	Colour	Material	Details	Item number	kg	
<i>Mounting</i>						
Fastening bracket	UBM	me	St	for PRE. LED	7995 0404 100	4 0,17
Securing	SCT CLIPS	me	St	for UE, RSE..., RSXE, RME, BEL..., PNE..., PRE..., PEMP/625..., PEO/625...	7995 0000 100	4 0,10
Tool	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1 0,08



# protection T5



**A+** **IP 54**

**Mounting:**

- Ceiling recessed

**Housing:**

- Sheet steel
- Suitable for ceiling system: ceilings with visible T-rails; concealed symmetrical rail construction; cut-out ceilings

**Lighting technology PREP:**

- Diffuser, prismatic; PMMA plastic
- Lighting characteristic direct distribution

**Lighting technology PREO:**

- Diffuser, opal; PMMA plastic
- Lighting characteristic direct distribution

**Lighting technology PREDS:**

- Parabolic louvre, highly specular; aluminium reflectivity enhanced
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1000 cd/m²

**Lamp:**

- For fitting with lamp(s) T5

**Switching:**

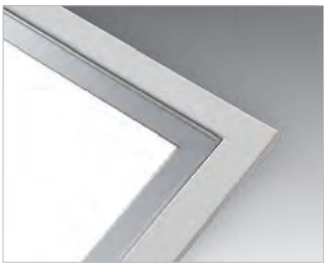
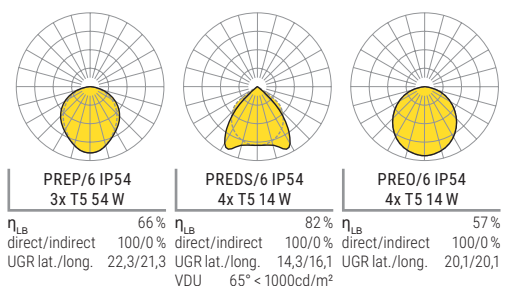
- The number of control units varies according to the version
- Electronic ballast
- 230V 50Hz

**Miscellaneous:**

- An extractor is included for prismatic panes to remove the sealing frame. A vacuum suction holder SH 55 is needed for all other variants.

**Accessories:**

- UBB universal mounting brackets for concealed symmetrical rail constructions and cut-out ceilings and SCT safety clips for ceilings with visible T-rails: please order separately



The diffuser frame is natural anodised. Different ceiling modules are compensated for in the width of the housing

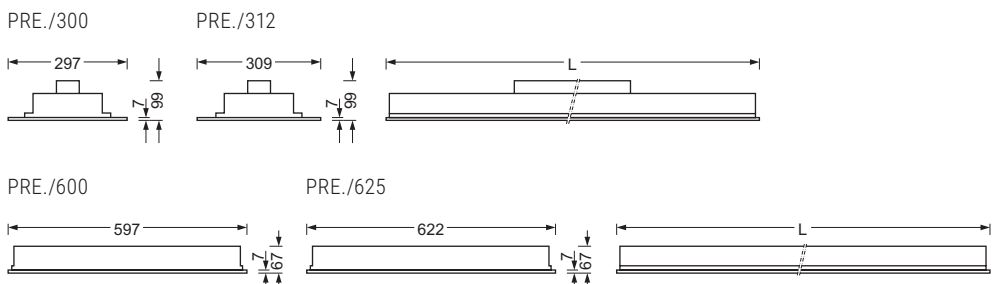


The prismatic diffuser frame is removed with an extractor supplied with the luminaire.

**Dimensions**

Type	Versions	LxBxH/DxH	T	MLxMB	Et <sup>1)</sup>	MLxMB	Et	DA <sub>x</sub> DA <sub>B</sub>	Et	DS min/max
PRE. IP..	T5 2x28, 54 W	1247 x 309 x 99	92	1250 x 312,5	250	1250 x 312,5	130	1185 x 225	130	10 - 36
	T5 3x14, 24 W	622 x 622 x 67	60	625 x 625	250	625 x 625	130	585 x 585	130	10 - 36
	T5 3x28, 54 W	1247 x 622 x 67	60	1250 x 625	250	1250 x 625	130	1185 x 585	130	10 - 36
	T5 4x14, 24 W	622 x 622 x 67	60	625 x 625	250	625 x 625	130	585 x 585	130	10 - 36
	T5 4x28, 54 W	1247 x 622 x 67	60	1250 x 625	250	1250 x 625	130	1185 x 585	130	10 - 36
PRE./3 IP..	T5 2x28, 54 W	1197 x 297 x 99	92	1200 x 300	250	1200 x 300	130	1185 x 225	130	10 - 36
PRE./6 IP..	T5 3x14, 24 W	597 x 597 x 67	60	600 x 600	250	600 x 600	130	585 x 585	130	10 - 36
	T5 3x28, 54 W	1197 x 597 x 67	60	1200 x 600	250	1200 x 600	130	1185 x 585	130	10 - 36
	T5 4x14, 24 W	597 x 597 x 67	60	600 x 600	250	600 x 600	130	585 x 585	130	10 - 36
	T5 4x28, 54 W	1197 x 597 x 67	60	1200 x 600	250	1200 x 600	130	1185 x 585	130	10 - 36

<sup>1)</sup>e = minimum ceiling distance (however only when ceiling construction and luminaires are simultaneously installed): 140 mm





protection-PREDS 4 x ...  
protection-PREDS/6 4 x ...



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, opal direct distribution</i>							
protection-PREO IP54	T5 2x28/54W	116	vw	ECG	1247 x 309 x 99	7250 2944 180	7,54
	T5 3x28/54W	174	vw	ECG	1247 x 622 x 67	7250 3944 180	7,54
	T5 3x14W	48	vw	ECG <sup>1)</sup>	622 x 622 x 67	7250 3144 180	4,59
	T5 4x28/54W	232	vw	ECG	1247 x 622 x 67	7250 4944 180	7,76
	T5 4x14W	64	vw	ECG <sup>1)</sup>	622 x 622 x 67	7250 4144 180	4,59
protection-PREO/3 IP54	T5 2x28/54W	116	vw	ECG	1197 x 297 x 99	7253 2944 180	5,10
protection-PREO/6 IP54	T5 3x28/54W	174	vw	ECG	1197 x 597 x 67	7256 3944 180	7,54
	T5 3x14W	48	vw	ECG <sup>1)</sup>	597 x 597 x 67	7256 3144 180	4,44
	T5 4x28/54W	232	vw	ECG	1197 x 597 x 67	7256 4944 180	7,28
	T5 4x14W	64	vw	ECG <sup>1)</sup>	597 x 597 x 67	7256 4144 180	4,44
<i>Diffuser, prismatic direct distribution</i>							
protection-PREP IP54	T5 2x28/54W	116	vw	ECG	1247 x 309 x 99	7250 2944 190	7,77
	T5 3x28/54W	174	vw	ECG	1247 x 622 x 67	7250 3944 190	7,77
	T5 3x14W	48	vw	ECG <sup>1)</sup>	622 x 622 x 67	7250 3144 190	4,72
	T5 4x28/54W	232	vw	ECG	1247 x 622 x 67	7250 4944 190	7,76
	T5 4x14W	64	vw	ECG <sup>1)</sup>	622 x 622 x 67	7250 4144 190	4,72
protection-PREP/3 IP54	T5 2x28/54W	116	vw	ECG	1197 x 297 x 99	7253 2944 190	5,10
protection-PREP/6 IP54	T5 3x28/54W	174	vw	ECG	1197 x 597 x 67	7256 3944 190	7,77
	T5 3x14W	48	vw	ECG <sup>1)</sup>	597 x 597 x 67	7256 3144 190	4,57
	T5 4x28/54W	232	vw	ECG	1197 x 597 x 67	7256 4944 190	7,51
	T5 4x14W	64	vw	ECG <sup>1)</sup>	597 x 597 x 67	7256 4144 190	4,57
<i>Parabolic louvre, highly specular direct distribution</i>							
protection-PREDS IP54	T5 2x28/54W	116	vw	ECG	1247 x 309 x 99	7250 2944 170	7,94
	T5 4x14W	64	vw	ECG <sup>1)</sup>	622 x 622 x 67	7250 4144 170	5,09
protection-PREDS/3 IP54	T5 2x28/54W	116	vw	ECG	1197 x 297 x 99	7253 2944 170	7,94
protection-PREDS/6 IP54	T5 4x14W	64	vw	ECG <sup>1)</sup>	597 x 597 x 67	7256 4144 170	4,94

<sup>1)</sup>Additional certification:

## Accessories

Type	Colour	Material	Details	Item number	kg	
<i>Mounting</i>						
Fastening bracket	UBB-90 4	me	St	for PREO, PREP ...14/24, 2x28/54	7996 0004 100	4 0,20
	UBB-90 6	me	St	for PREO, PREP 3x28/54, 4x28/54	7996 0006 100	6 0,20
Securing	SCT CLIPS	me	St	for UE, RSE..., RSXE, RME, BEL..., PNE..., PRE..., PEMP/625..., PEO/625...	7995 0000 100	4 0,10
Tool	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1 0,08





# hokal

## hokal – universal light run system

The world in which we live is founded upon fundamental forms of symmetry. The aesthetic quality of the hokal luminaire family depends upon the specification of a clear, concise design. And with an almost square cross-section, Regiolux has managed to capture the essence of stylish modernity and outstanding technical quality. The hokal luminaire family in the form of a light channel is, as expected, a universally designed luminaire concept. In terms of functionality you can plan with the wide-ranging spectrum that is typical of a Regiolux luminaire family. And applications are also accordingly widely based. Recessed luminaires equipped with either one or two lamps are available for cut-out ceilings and panel ceilings. Lighting design with surface-mounted and suspended versions, either with direct/indirect or purely direct light distribution can be implemented according to needs and with cost efficiency in mind, and an emergency light version is also available for safety lighting. Control components and sensors in master luminaires are just some of the possibilities for exploiting energy saving potential. Diverse optics help to achieve an optimal illuminated atmosphere, so that viewing comfort, visual performance and safety as evaluation criteria for lighting in various types of rooms always achieve top marks.



### Type overview

- ▶ HLEX Micro-parabolic louvre, silky matt direct distribution
- ▶ HLEG Diffuser, satined direct distribution
- ▶ HLED Micro-parabolic louvre, highly specular direct distribution





LED A+ 1500 CE IP 20

**Mounting:**

- Ceiling recessed

**Housing:**

- Sheet steel
- Suitable for ceiling system: cut-out ceilings; panel ceiling

**Lighting technology HLEX:**

- Micro-parabolic louvre, silky matt MIRO-SILVER ®
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1500 cd/m<sup>2</sup>

**Lighting technology HLEG:**

- Diffuser, satined; PC plastic
- Lighting characteristic direct distribution

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

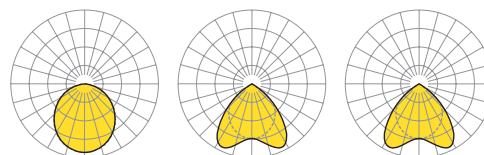
**Accessories:**

- Required accessories: end faces and universal mounting bracket UBD for cut-out ceilings and/or WSPHL for panel ceilings, please order separately.

hokal-HLEG...-1 LED



Luminaires are supplied with open ends. End faces and connectors must be ordered separately.

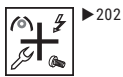


HLEG/1200-1 LED 2400 lm 840	HLEX/1200-1 LED 3200 lm 840	HLEX/1500-2 LED 8100 lm 840
$\eta_{LB}$ 100%	$\eta_{LB}$ 100%	$\eta_{LB}$ 100%
lm/W 104	lm/W 96	lm/W 94
direct/indirect 100/0%	direct/indirect 100/0%	direct/indirect 100/0%
UGR lat./long. 24,7/24,8	UGR lat./long. 20,7/20,0	UGR lat./long. 20,5/19,8
VDU 65° < 1500cd/m <sup>2</sup>	VDU 65° < 1500cd/m <sup>2</sup>	VDU 65° < 1000cd/m <sup>2</sup>

## Dimensions

Type	Versions	LxBxH/DxH	T	MB	Et	DA:xDA <sub>B</sub>	Et	DS min/max
HLE./1200-1	LED	1176 x 84 x 76	72	100	170	L(+L+L...)+10 x 74	155	10 - 50
HLE./1200-2	LED	1176 x 136 x 76	72	150	170	L(+L+L...)+10 x 122	155	10 - 50
HLE./1500-1	LED	1476 x 84 x 76	72	100	170	L(+L+L...)+10 x 74	155	10 - 50
HLE./1500-2	LED	1476 x 136 x 76	72	150	170	L(+L+L...)+10 x 122	155	10 - 50

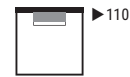




▶202



▶52



▶110



hokal-HLEX...-1 LED



hokal-HLEX...-2 LED

## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, satined direct distribution</i>							
hokal-HLEG/1200-1	LED 2400lm 840	23	vw	ED	1176 x 84 x 76	6052 1024 180	3,10
				DALI	1176 x 84 x 76	6052 1026 680	3,10
hokal-HLEG/1500-1	LED 3600lm 840	36	vw	ED	1476 x 84 x 76	6052 3024 180	3,70
				DALI	1476 x 84 x 76	6052 3026 680	3,70
<i>Micro-parabolic louvre, silky matt direct distribution</i>							
hokal-HLEX/1200-1	LED 3200lm 840	34	vw	ED	1176 x 84 x 76	6052 1024 160	2,65
				DALI	1176 x 84 x 76	6052 1026 660	2,73
hokal-HLEX/1200-2	LED 6500lm 840	69	vw	ED	1176 x 136 x 76	6052 2024 160	4,00
				DALI	1176 x 136 x 76	6052 2026 660	4,00
hokal-HLEX/1500-1	LED 4000lm 840	42	vw	ED	1476 x 84 x 76	6052 3024 160	3,55
				DALI	1476 x 84 x 76	6052 3026 660	3,63
hokal-HLEX/1500-2	LED 8100lm 840	86	vw	ED	1476 x 136 x 76	6052 4024 160	4,50
				DALI	1476 x 136 x 76	6052 4026 660	4,50



**Mounting:**

- Ceiling recessed

**Housing:**

- Sheet steel
- Suitable for ceiling system: cut-out ceilings; panel ceiling

**Lighting technology HLEG:**

- Diffuser, satined; PC plastic
- Lighting characteristic direct distribution

**Lighting technology HLED:**

- Micro-parabolic louvre, highly specular MIRO-SILVER®
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1000 cd/m²

**Lighting technology HLEX:**

- Micro-parabolic louvre, silky matt MIRO-SILVER®
- Lighting characteristic direct distribution suited for VDU workstations, 65° < 1000 cd/m²

**Lamp:**

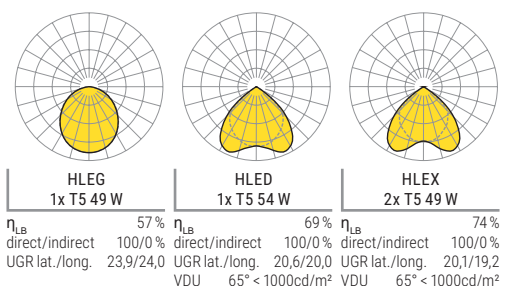
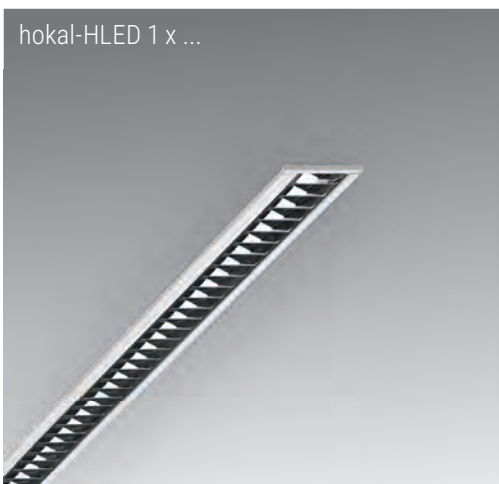
- For fitting with lamp(s) T5

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Accessories:**

- Required accessories: end faces and universal mounting bracket UBD for cut-out ceilings and/or WSPHL for panel ceilings, please order separately.



Luminaires are supplied with open ends. End faces and connectors must be ordered separately.

## Dimensions

Type	Versions	LxBxH/DxH	T	MB	Et	DA <sub>x</sub> DA <sub>0</sub>	Et	DS min/max
HLE.	T5 1x28, 54 W	1176 x 84 x 76	72	100	170	L(+L+L..)+10 x 74	170	10 - 40
	T5 1x35, 49, 80 W	1476 x 84 x 76	72	100	170	L(+L+L..)+10 x 74	170	10 - 40
	T5 2x28, 54 W	1176 x 136 x 76	72	150	170	L(+L+L..)+10 x 122	170	10 - 40
	T5 2x35, 49, 80 W	1476 x 136 x 76	72	150	170	L(+L+L..)+10 x 122	170	10 - 40

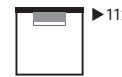




▶202



▶54




▶112



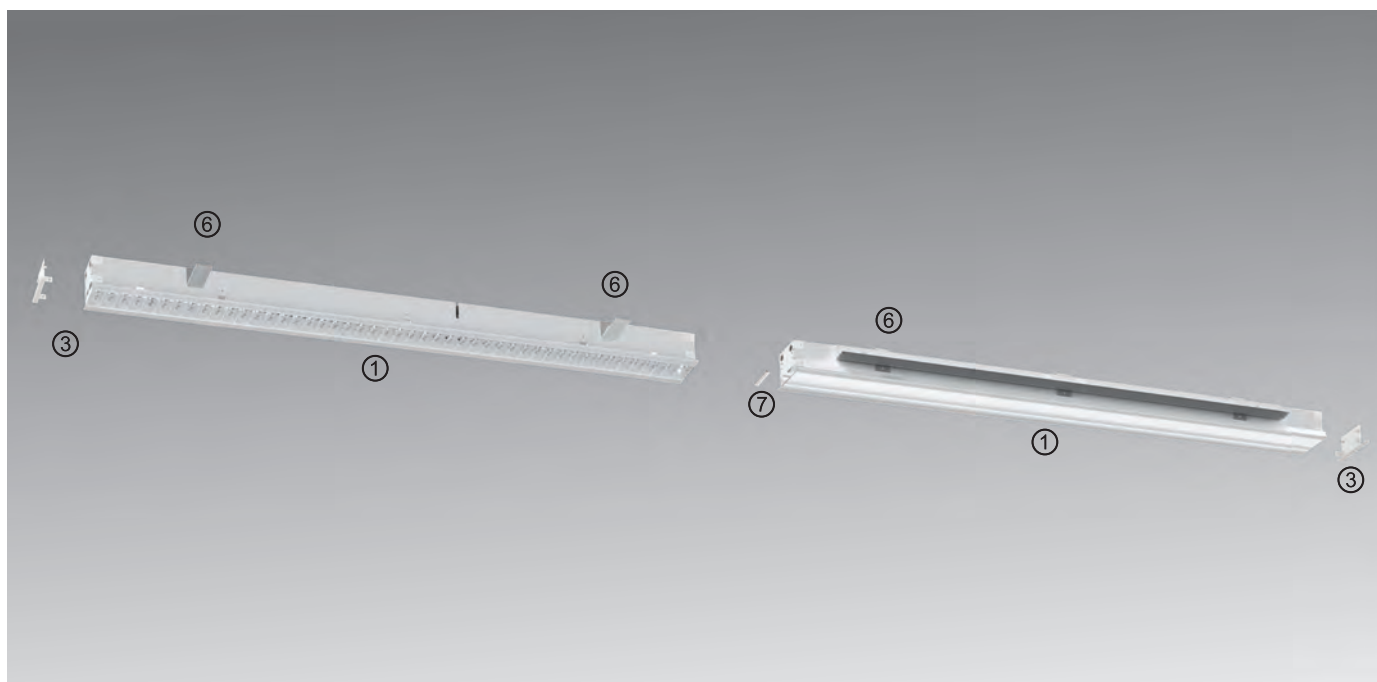
hokal-HLEX 2 x ...

**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	 [kg]
<i>Diffuser, satined direct distribution</i>							
hokal-HLEG	T5 1x28/54W	58	vw	ECG	1176 x 84 x 76	6052 1944 180	2,29
				ECG DALI	1176 x 84 x 76	6052 1946 680	2,30
	T5 1x35/49/80W	52	vw	ECG	1476 x 84 x 76	6052 1954 180	3,19
				ECG DALI	1476 x 84 x 76	6052 1956 680	3,18
	T5 2x35/49W	104	vw	ECG	1476 x 136 x 76	6052 2964 180	3,68
				ECG DALI	1476 x 136 x 76	6052 2966 680	3,67
	T5 2x28W	60	vw	ECG	1176 x 136 x 76	6052 2284 180	2,92
				ECG DALI	1176 x 136 x 76	6052 2286 680	3,06
<i>Micro-parabolic louvre, highly specular direct distribution</i>							
hokal-HLED	T5 1x28/54W	58	vw	ECG	1176 x 84 x 76	6052 1944 170	2,27
				ECG DALI	1176 x 84 x 76	6052 1946 670	2,28
	T5 1x35/49/80W	52	vw	ECG	1476 x 84 x 76	6052 1954 170	3,17
				ECG DALI	1476 x 84 x 76	6052 1956 670	3,16
	T5 2x28/54W	116	vw	ECG	1176 x 136 x 76	6052 2944 170	3,02
				ECG DALI	1176 x 136 x 76	6052 2946 670	3,16
	T5 2x35/49/80W	104	vw	ECG	1476 x 136 x 76	6052 2954 170	3,81
				ECG DALI	1476 x 136 x 76	6052 2956 670	3,80
<i>Micro-parabolic louvre, silky matt direct distribution</i>							
hokal-HLEX	T5 1x28/54W	58	vw	ECG	1176 x 84 x 76	6052 1944 160	2,27
				ECG DALI	1176 x 84 x 76	6052 1946 660	2,28
	T5 1x35/49/80W	52	vw	ECG	1476 x 84 x 76	6052 1954 160	3,17
				ECG DALI	1476 x 84 x 76	6052 1956 660	3,26
	T5 2x28/54W	116	vw	ECG	1176 x 136 x 76	6052 2944 160	3,02
				ECG DALI	1176 x 136 x 76	6052 2946 660	3,16
	T5 2x35/49/80W	104	vw	ECG	1476 x 136 x 76	6052 2954 160	3,81
				ECG DALI	1476 x 136 x 76	6052 2956 660	3,80



# hokal accessories



- ① hokal with FLVWR through-wiring
- ③ Luminaire end faces kit HLES or HLESG
- ⑥ Luminaire fixing UBD / WSPHL
- ⑦ Diffuser connector buffer strip GSL

## Accessories

	Type	Colour	Material	Details	Item number		
<i>Design</i>							
Diffuser connector	GSL -1	tz	PC	Protection strip for 1/.. hokal-HL..G, procube CU..G	8460 1001 100	1	0,06
	GSL -2	tz	PC	Protection strip for 2/.. hokal-HL..G, procube CU..G	8460 1002 100	1	0,06
Kit of end faces	hokal -HLES -1	vw	St	for hokal HLE T5 1x.., -1 LED	6058 1205 100	2	0,06
	hokal -HLES -2	vw	St	for hokal HLE T5 2x.., -2 LED	6058 2205 100	2	0,06
	hokal -HLESG -1	vw	St	for hokal HLEG T5 1x.., -1 LED	6058 1225 100	2	0,06
<i>Electrical technology</i>							
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm <sup>2</sup> for light run-capable LED/T5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1	0,16
<i>Mounting</i>							
Fastening bracket	UBD 74	me	St	for hokal HLE T5 1x.., -1 LED	7995 0742 100	2	0,17
	UBD 122	me	St	for hokal HLE T5 2x.., -2 LED	7995 1222 100	2	0,23
Mounting rail	WSPHL 1200	me	St.galv.	h=20-40mm for hokal HLE... 28/54	7996 1200 100	2	1,50
	WSPHL 1500	me	St.galv.	h=20-40mm for hokal HLE... 35/49/80	7996 1500 100	2	1,88
Tool	SH 30	sw	Polymer	Suction holder, d=30mm for smooth diffuser covers, narrow design	9203 0030 100	1	0,06
	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1	0,08







## RE

**RE – recessed luminaires in T5, T8  
and LED technology**

Wide-ranging luminaire family with one to three louvre luminaire versions and, in addition to that, you find an offer of square small luminaires with the same optical design for corridors or small ancillary areas. The most different light technologies for any appliance and the great selection of types provide the equipment of complete objects. There are also luminaires in the same louvre optic for panel ceiling and the cubus series of surface-mounted and suspended luminaires.

**Type overview**

- ▶ RSEX Parabolic louvre, silky matt direct distribution
- ▶ RSED Parabolic louvre, highly specular direct distribution
- ▶ RSEXA Parabolic louvre, silky matt direct asymmetrical distribution
- ▶ RSEDA Parabolic louvre, highly specular direct asymmetrical distribution
- ▶ RME Louvre, white direct distribution
- ▶ RSXE Parabolic louvre, matt direct distribution
- ▶ RSXEA Parabolic louvre, matt direct asymmetrical distribution
- ▶ RE./115 luminaire width only 115 mm
- ▶ RE./3 for 300 mm ceiling systems
- ▶ RE./312 for 312 mm ceiling systems
- ▶ RE.P for panel ceilings
- ▶ RE.-VA for asymmetrical concealed grid ceilings





LED A+ 1000 V V CE IP 20

### Mounting:

- Ceiling recessed

### Housing:

- Sheet steel
- Suitable for ceiling system: ceilings with visible T-rails; concealed symmetrical rail construction; cut-out ceilings

### Lighting technology RSEX:

- Parabolic louvre, silky matt
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

### Lamp:

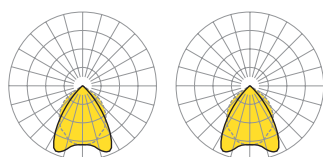
- LED 50000h L80/B10
- CRI  $\geq 80$  / 4000K

### Switching:

- 1 Control gear
- Electronic driver
- 230V 50Hz

### Accessories:

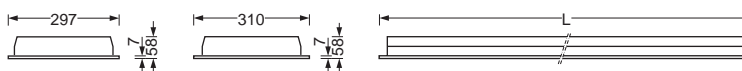
- UE T5-UBB universal mounting brackets for concealed symmetrical rail constructions and cut-out ceilings and SCT safety clips for ceilings with visible T-rails, to be ordered separately.



RSEX/300-1200 LED 3200 lm 840		RSEX/300-1200 LED 4200 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	115	lm/W	109
direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	15,5/19,0	UGR lat./long.	16,4/20,0
VDU	$65^\circ < 1000 \text{ cd/m}^2$	VDU	$65^\circ < 1000 \text{ cd/m}^2$

### Dimensions

Type	Versions	LxBxH/DxH	T	MLxMB	Et	MLxMB	Et	DA <sub>1</sub> xDA <sub>2</sub>	Et
RE./300	LED	1197 x 297 x 58	51	1200 x 300	170	1200 x 300	120	1180 x 275	120
RE./312	LED	1247 x 310 x 58	51	1250 x 312,5	170	1250 x 312,5	120	1180 x 275	120



### Products

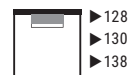
Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Parabolic louvre, silky matt direct distribution</i>							
RSEX/300-1200	LED 3200lm 840	28	vw	ED	1197 x 297 x 58	7161 0304 160	5,00
				DALI	1197 x 297 x 58	7161 0306 660	5,00
	LED 4200lm 840	39	vw	ED	1197 x 297 x 58	7161 0504 160	5,00
				DALI	1197 x 297 x 58	7161 0506 660	5,00
RSEX/312-1250	LED 3200lm 840	28	vw	ED	1247 x 310 x 58	7101 0304 160	5,00
				DALI	1247 x 310 x 58	7101 0306 660	5,00
	LED 4200lm 840	39	vw	ED	1247 x 310 x 58	7101 0504 160	5,00
				DALI	1247 x 310 x 58	7101 0506 660	5,00
RSEX/312-1550	LED 4000lm 840	35	vw	ED	1547 x 310 x 58	7131 0304 160	6,30

### Accessories

Type	Colour	Material	Details	Item number		
<i>Mounting</i>						
Fastening bracket	UBB T5/LED	me	St	for UE T5/LED, RSEX T5/LED	7995 0504 100	4 0,20
Securing	SCT CLIPS	me	St	for UE, RSE..., RSXE, RME, BEL..., PNE..., PRE..., PEMP/625..., PEO/625...	7995 0000 100	4 0,10



# RE T5



**Mounting:**

- Ceiling recessed

**Housing:**

- Sheet steel
- Suitable for ceiling system: ceilings with visible T-rails; concealed symmetrical rail construction; cut-out ceilings

**Lighting technology RSED:**

- Parabolic louvre, highly specular reflectivity enhanced
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology RSEX:**

- Parabolic louvre, silky matt reflectivity enhanced
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology RSEDA:**

- Parabolic louvre, highly specular reflectivity enhanced
- Lighting characteristic direct asymmetrical distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology RSEXA:**

- Parabolic louvre, silky matt reflectivity enhanced
- Lighting characteristic direct asymmetrical distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lamp:**

- For fitting with lamp(s) T5

**Switching:**

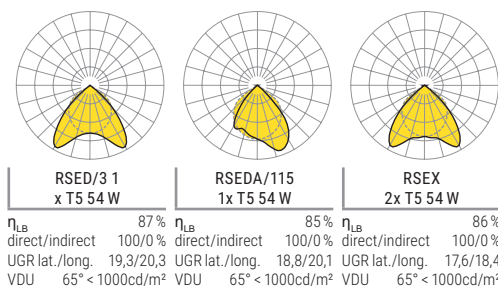
- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Accessories:**

- UBB T5/LED universal mounting brackets for concealed symmetrical rail constructions and cut-out ceilings and SCT safety clips for ceilings with visible T-rails, to be ordered separately.



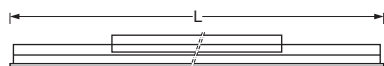
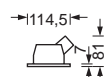
Different ceiling modules are compensated for in the width of the housing



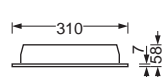
## Dimensions

Type	Versions	LxBxH/DxH	T	MLxMB	Et	MLxMB	Et	DA <sub>1</sub> xDA <sub>2</sub>	Et
RE.	T5 1x28, 54 W	1247 x 310 x 58	51	1250 x 312,5	170	1250 x 312,5	120	1180 x 275	120
	T5 1x35, 49, 80 W	1547 x 310 x 58	51	1550 x 312,5	170	1550 x 312,5	120	1480 x 275	120
	T5 2x28, 54 W	1247 x 310 x 58	51	1250 x 312,5	170	1250 x 312,5	120	1180 x 275	120
	T5 2x35, 49, 80 W	1547 x 310 x 58	51	1550 x 312,5	170	1550 x 312,5	120	1480 x 275	120
RE./115	T5 1x28, 54 W	1196 x 114,5 x 81	74	1200 x 118	135	1200 x 118	150	1180 x 100	150
	T5 1x35, 49, 80 W	1496 x 114,5 x 81	74	1500 x 118	135	1500 x 118	150	1480 x 100	150
RE./3	T5 1x28, 54 W	1197 x 297 x 58	51	1200 x 300	170	1200 x 300	150	1180 x 275	120
	T5 2x28, 54 W	1197 x 297 x 58	51	1200 x 300	170	1200 x 300	150	1180 x 275	120

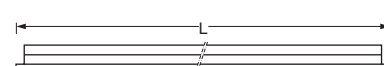
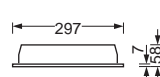
RE./115



RE./3




RE.









## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Parabolic louvre, highly specular direct asymmetrical distribution</i>							
RSEDA	T5 1x35W	38	vw	ECG	1547 x 310 x 58	7104 1354 130	4,95
	T5 1x49W	52	vw	ECG	1547 x 310 x 58	7104 1494 130	4,95
	T5 1x54W	58	vw	ECG	1247 x 310 x 58	7104 1544 130	4,10
	T5 2x35W	76	vw	ECG	1547 x 310 x 58	7104 2354 130	4,95
	T5 2x49W	104	vw	ECG	1547 x 310 x 58	7104 2494 130	4,95
	T5 2x54W	116	vw	ECG	1247 x 310 x 58	7104 2544 130	4,11
RSEDA/115	T5 1x35W	38	vw	ECG	1496 x 114,5 x 81	7154 1354 130	2,45
	T5 1x49W	52	vw	ECG	1496 x 114,5 x 81	7154 1494 130	2,45
	T5 1x54W	58	vw	ECG	1196 x 114,5 x 81	7154 1544 130	2,08
<i>Parabolic louvre, highly specular direct distribution</i>							
RSED	T5 1x28W	30	vw	ECG	1247 x 310 x 58	7104 1284 170	4,10
	T5 1x35W	38	vw	ECG	1547 x 310 x 58	7104 1354 170	4,96
	T5 1x49W	52	vw	ECG	1547 x 310 x 58	7104 1494 170	4,96
	T5 1x54W	58	vw	ECG	1247 x 310 x 58	7104 1544 170	4,10
	T5 2x28W	60	vw	ECG	1247 x 310 x 58	7104 2284 170	4,11
	T5 2x35W	76	vw	ECG	1547 x 310 x 58	7104 2354 170	4,95
	T5 2x49W	104	vw	ECG	1547 x 310 x 58	7104 2494 170	4,95
	T5 2x54W	116	vw	ECG	1247 x 310 x 58	7104 2544 170	4,11
RSED/115	T5 1x28W	30	vw	ECG	1196 x 114,5 x 81	7154 1284 170	2,08
	T5 1x35W	38	vw	ECG	1496 x 114,5 x 81	7154 1354 170	2,45
	T5 1x49W	52	vw	ECG	1496 x 114,5 x 81	7154 1494 170	2,45
	T5 1x54W	58	vw	ECG	1196 x 114,5 x 81	7154 1544 170	2,08
RSED/3	T5 1x28W	30	vw	ECG	1197 x 297 x 58	7104 1294 170	3,89
	T5 1x54W	58	vw	ECG	1197 x 297 x 58	7104 1534 170	3,89
	T5 2x28W	60	vw	ECG	1197 x 297 x 58	7104 2294 170	3,90
	T5 2x54W	116	vw	ECG	1197 x 297 x 58	7104 2534 170	3,90
<i>Parabolic louvre, silky matt direct asymmetrical distribution</i>							
RSEXA	T5 1x35W	38	vw	ECG	1547 x 310 x 58	7104 1354 140	4,90
	T5 1x49W	52	vw	ECG	1547 x 310 x 58	7104 1494 140	4,90
	T5 1x54W	58	vw	ECG	1247 x 310 x 58	7104 1544 140	4,05
	T5 2x35W	76	vw	ECG	1547 x 310 x 58	7104 2354 140	4,84
	T5 2x49W	104	vw	ECG	1547 x 310 x 58	7104 2494 140	4,84
	T5 2x54W	116	vw	ECG	1247 x 310 x 58	7104 2544 140	4,01
RSEXA/115	T5 1x35W	38	vw	ECG	1496 x 114,5 x 81	7154 1354 140	2,40
	T5 1x49W	52	vw	ECG	1496 x 114,5 x 81	7154 1494 140	2,40
	T5 1x54W	58	vw	ECG	1196 x 114,5 x 81	7154 1544 140	2,03
<i>Parabolic louvre, silky matt direct distribution</i>							
RSEX	T5 1x28W	30	vw	ECG	1247 x 310 x 58	7104 1284 160	4,05
	T5 1x35W	38	vw	ECG	1547 x 310 x 58	7104 1354 160	4,89
	T5 1x49W	52	vw	ECG	1547 x 310 x 58	7104 1494 160	4,89
	T5 1x54W	58	vw	ECG	1247 x 310 x 58	7104 1544 160	4,05
	T5 2x28W	60	vw	ECG	1247 x 310 x 58	7104 2284 160	4,01
	T5 2x35W	76	vw	ECG	1547 x 310 x 58	7104 2354 160	4,84
	T5 2x49W	104	vw	ECG	1547 x 310 x 58	7104 2494 160	4,84
	T5 2x54W	116	vw	ECG	1247 x 310 x 58	7104 2544 160	4,01
RSEX/115	T5 1x28W	30	vw	ECG	1196 x 114,5 x 81	7154 1284 160	2,03
	T5 1x35W	38	vw	ECG	1496 x 114,5 x 81	7154 1354 160	2,40
	T5 1x49W	52	vw	ECG	1496 x 114,5 x 81	7154 1494 160	2,40
	T5 1x54W	58	vw	ECG	1196 x 114,5 x 81	7154 1544 160	2,03
RSEX/3	T5 1x28W	30	vw	ECG	1197 x 297 x 58	7104 1294 160	3,85
	T5 1x54W	58	vw	ECG	1197 x 297 x 58	7104 1534 160	3,85
	T5 2x28W	60	vw	ECG	1197 x 297 x 58	7104 2294 160	3,81
	T5 2x54W	116	vw	ECG	1197 x 297 x 58	7104 2534 160	3,81

## Accessories

Type	Colour	Material	Details	Item number		
<i>Mounting</i>						
Fastening bracket	UBB T5/LED	me	St	for UE T5/LED, RSEX T5/LED	7995 0504 100	4 0,20
Securing	SCT CLIPS	me	St	for UE, RSE..., RSXE, RME, BEL..., PNE..., PRE..., PEMP/625..., PEO/625...	7995 0000 100	4 0,10





**A+** **IP 20**

**Mounting:**

- Ceiling recessed

**Housing:**

- Sheet steel
- Suitable for ceiling system: ceilings with visible T-rails; concealed symmetrical rail construction; cut-out ceilings

**Lighting technology RME:**

- Louvre, white
- Lighting characteristic direct distribution

**Lamp:**

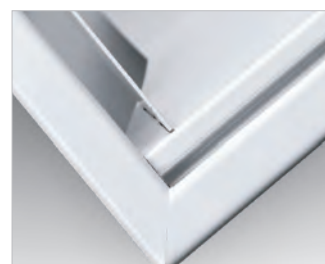
- For fitting with lamp(s) T5

**Switching:**

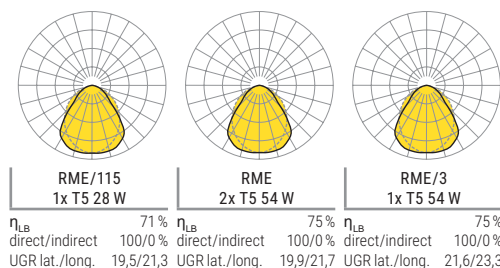
- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Accessories:**

- UBB T5/LED universal mounting brackets for concealed symmetrical rail constructions and cut-out ceilings and SCT safety clips for ceilings with visible T-rails, to be ordered separately.



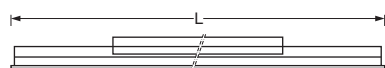
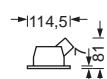
Different ceiling modules are compensated for in the width of the housing



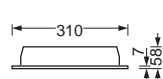
## Dimensions

Type	Versions	LxBxH/DxH	T	MLxMB	Et	MLxMB	Et	DA <sub>1</sub> xDA <sub>2</sub>	Et
RE.	T5 1x28, 54 W	1247 x 310 x 58	51	1250 x 312,5	170	1250 x 312,5	120	1180 x 275	120
	T5 1x35, 49, 80 W	1547 x 310 x 58	51	1550 x 312,5	170	1550 x 312,5	120	1480 x 275	120
	T5 2x28, 54 W	1247 x 310 x 58	51	1250 x 312,5	170	1250 x 312,5	120	1180 x 275	120
	T5 2x35, 49, 80 W	1547 x 310 x 58	51	1550 x 312,5	170	1550 x 312,5	120	1480 x 275	120
RE./115	T5 1x28, 54 W	1196 x 114,5 x 81	74	1200 x 118	135	1200 x 118	150	1180 x 100	150
	T5 1x35, 49, 80 W	1496 x 114,5 x 81	74	1500 x 118	135	1500 x 118	150	1480 x 100	150
RE./3	T5 1x28, 54 W	1197 x 297 x 58	51	1200 x 300	170	1200 x 300	120	1180 x 275	120
	T5 2x28, 54 W	1197 x 297 x 58	51	1200 x 300	170	1200 x 300	120	1180 x 275	120

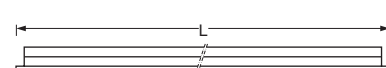
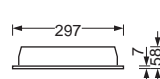
RE./115



RE./3




RE.







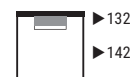
## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Louvre, white direct distribution</i>							
RME	T5 1x28W	30	vw	ECG	1247 x 310 x 58	7104 1284 110	4,15
	T5 1x35W	38	vw	ECG	1547 x 310 x 58	7104 1354 110	5,02
	T5 1x49W	52	vw	ECG	1547 x 310 x 58	7104 1494 110	5,02
	T5 1x54W	58	vw	ECG	1247 x 310 x 58	7104 1544 110	4,15
	T5 2x28W	60	vw	ECG	1247 x 310 x 58	7104 2284 110	4,21
	T5 2x35W	76	vw	ECG	1547 x 310 x 58	7104 2354 110	5,07
	T5 2x49W	104	vw	ECG	1547 x 310 x 58	7104 2494 110	5,07
	T5 2x54W	116	vw	ECG	1247 x 310 x 58	7104 2544 110	4,21
RME/115	T5 1x28W	30	vw	ECG	1196 x 114,5 x 81	7154 1284 110	2,13
	T5 1x35W	38	vw	ECG	1496 x 114,5 x 81	7154 1354 110	2,51
	T5 1x49W	52	vw	ECG	1496 x 114,5 x 81	7154 1494 110	2,51
	T5 1x54W	58	vw	ECG	1196 x 114,5 x 81	7154 1544 110	2,13
RME/3	T5 1x28W	30	vw	ECG	1197 x 297 x 58	7104 1294 110	3,94
	T5 1x54W	58	vw	ECG	1197 x 297 x 58	7104 1534 110	3,94
	T5 2x28W	60	vw	ECG	1197 x 297 x 58	7104 2294 110	4,00
	T5 2x54W	116	vw	ECG	1197 x 297 x 58	7104 2534 110	4,00

## Accessories

Type	Colour	Material	Details	Item number		
<i>Mounting</i>						
Fastening bracket	UBB T5/LED	me	St	for UE T5/LED, RSEX T5/LED	7995 0504 100	4 0,20
Securing	SCT CLIPS	me	St	for UE, RSE..., RSEX, RME, BEL..., PNE..., PRE..., PEMP/625..., PEO/625...	7995 0000 100	4 0,10





**Mounting:**

- Ceiling recessed

**Housing:**

- Sheet steel
- Suitable for ceiling system: ceilings with visible T-rails; concealed symmetrical rail construction; cut-out ceilings

**Lighting technology RSED:**

- Parabolic louvre, highly specular
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology RSXE:**

- Parabolic louvre, matt
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 3000 \text{ cd/m}^2$

**Lighting technology RSXEA:**

- Parabolic louvre, matt
- Lighting characteristic direct asymmetrical distribution suited for VDU workstations,  $65^\circ < 3000 \text{ cd/m}^2$

**Lighting technology RME:**

- Louvre, white
- Lighting characteristic direct distribution

**Lamp:**

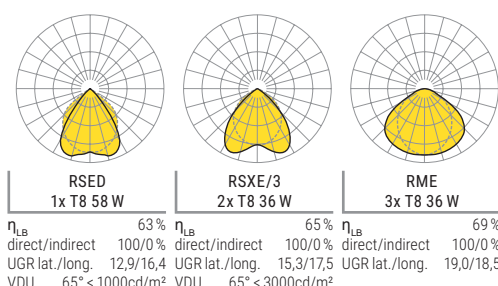
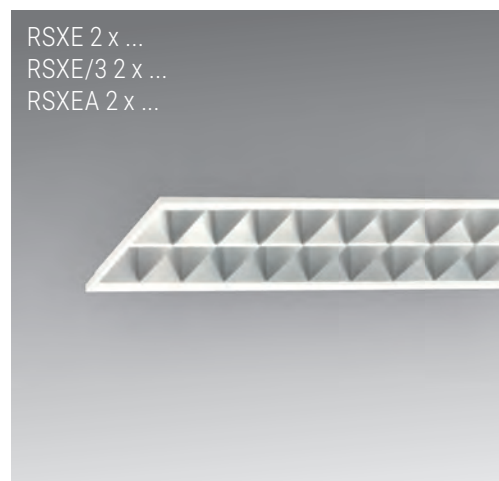
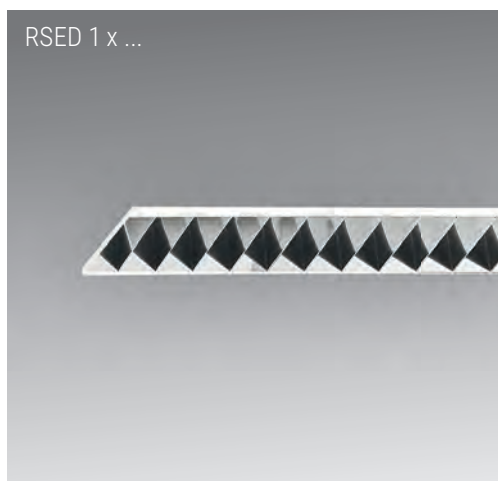
- For fitting with lamp(s) T8

**Switching:**

- The number of control gears varies according to the version
- Electronic ballast
- 230V 50Hz

**Accessories:**

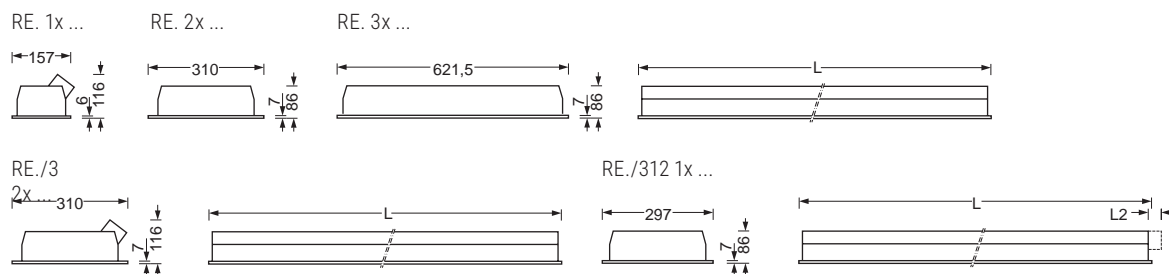
- UBB universal mounting brackets for concealed symmetrical rail constructions and cut-out ceilings and SCT safety clips for ceilings with visible T-rails, to be ordered separately.

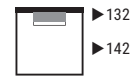


For luminaires for ceiling systems with modules 300 and 600 mm there is a frame projection L2 on one side.

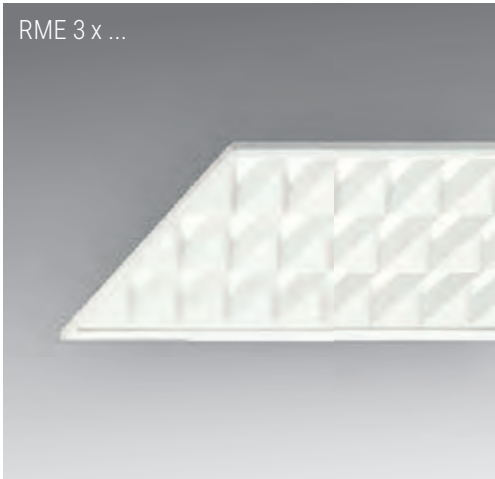
**Dimensions**

Type	Versions	L2	LxBxH/DxH	T	MLxMB	Et	MLxMB	Et	DA <sub>L</sub> xDA <sub>B</sub>	Et
RE.	T8 1x36W	-	1247 x 157 x 116	110	1250 x 161	200	1250 x 161	150	1235 x 143	150
	T8 1x58W	-	1547 x 157 x 116	110	1550 x 161	200	1550 x 161	150	1535 x 143	150
	T8 2x36W	-	1247 x 310 x 86	79	1250 x 312,5	200	1250 x 312,5	150	1235 x 285	150
	T8 2x58W	-	1547 x 310 x 86	79	1550 x 312,5	200	1550 x 312,5	150	1535 x 285	150
	T8 3x36W	-	1247 x 621,5 x 86	79	1250 x 625	250	1250 x 625	150	1235 x 608	150
RE./3	T8 2x36W	50	1197 x 297 x 86	79	1200 x 300	200	1200 x 300	150	1185 x 285	150
RE./312	T8 1x36W	-	1247 x 310 x 116	109	1250 x 312,5	200	1250 x 312,5	150	1235 x 285	150








RME 3 x ...



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Parabolic louvre, highly specular direct distribution</i>							
RSED	T8 1x36W	36	vw	ECG	1247 x 157 x 116	7104 1364 170	3,42
	T8 1x58W	55	vw	ECG	1547 x 157 x 116	7104 1584 170	4,08
	T8 2x36W	72	vw	ECG	1247 x 310 x 86	7104 2364 170	4,80
	T8 2x58W	110	vw	ECG	1547 x 310 x 86	7104 2584 170	5,98
	T8 3x36W	108	vw	ECG	1247 x 621,5 x 86	7104 3364 170	11,01
RSED/3	T8 2x36W	72	vw	ECG	1197 x 297 x 86	7104 2374 170	5,20
<i>Parabolic louvre, matt direct asymmetrical distribution</i>							
RSXEA	T8 1x58W	55	vw	ECG	1547 x 157 x 116	7104 1584 140	3,66
	T8 2x36W	72	vw	ECG	1247 x 310 x 86	7104 2364 140	5,08
	T8 2x58W	110	vw	ECG	1547 x 310 x 86	7104 2584 140	4,94
<i>Parabolic louvre, matt direct distribution</i>							
RSXE	T8 1x36W	36	vw	ECG	1247 x 157 x 116	7104 1364 150	3,04
	T8 1x58W	55	vw	ECG	1547 x 157 x 116	7104 1584 150	3,66
	T8 2x36W	72	vw	ECG	1247 x 310 x 86	7104 2364 150	5,08
	T8 2x58W	110	vw	ECG	1547 x 310 x 86	7104 2584 150	4,94
	T8 3x36W	108	vw	ECG	1247 x 621,5 x 86	7104 3364 150	9,90
RSXE/3	T8 2x36W	72	vw	ECG	1197 x 297 x 86	7104 2374 150	4,04
RSXE/312	T8 1x36W	36	vw	ECG	1247 x 310 x 116	7194 1364 150	5,30
<i>Louvre, white direct distribution</i>							
RME	T8 1x36W	36	vw	ECG	1247 x 157 x 116	7104 1364 110	4,36
	T8 1x58W	55	vw	ECG	1547 x 157 x 116	7104 1584 110	5,32
	T8 2x36W	72	vw	ECG	1247 x 310 x 86	7104 2364 110	6,64
	T8 2x58W	110	vw	ECG	1547 x 310 x 86	7104 2584 110	8,00
	T8 3x36W	108	vw	ECG	1247 x 621,5 x 86	7104 3364 110	13,00
RME/3	T8 2x36W	72	vw	ECG	1197 x 297 x 86	7104 2374 110	6,24

## Accessories

Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>						
Emergency lamp socket	E14 H	ws	Polymer	E14/IT-25 horiz. for T8	9452 0320 100	1 0,20
<i>Mounting</i>						
Fastening bracket	UBB 4	me	St	for UE T8, K...E..., R...E...1/2/, ELP, EGS	7995 0004 100	4 0,20
	UBB 6	me	St	for R...E...3/36	7995 0006 100	6 0,20
Securing	SCT CLIPS	me	St	for UE, RSE..., RSXE, RME, BEL..., PNE..., PRE..., PEMP/625..., PEO/625...	7995 0000 100	4 0,10





▶72



▶132

▶142



**Mounting:**

- Ceiling recessed

**Housing:**

- Sheet steel
- Suitable for ceiling system: panel ceiling

**Lighting technology RSED:**

- Parabolic louvre, highly specular
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology RSXE:**

- Parabolic louvre, matt
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 3000 \text{ cd/m}^2$

**Lighting technology RME:**

- Louvre, white
- Lighting characteristic direct distribution

**Lamp:**

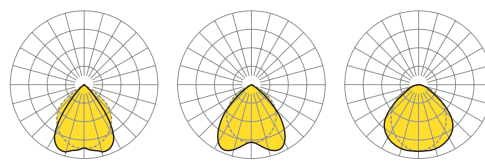
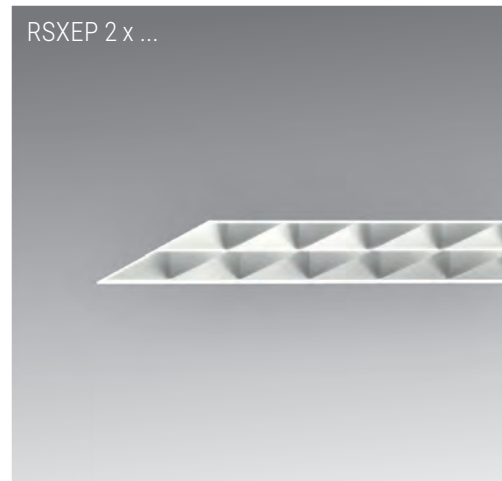
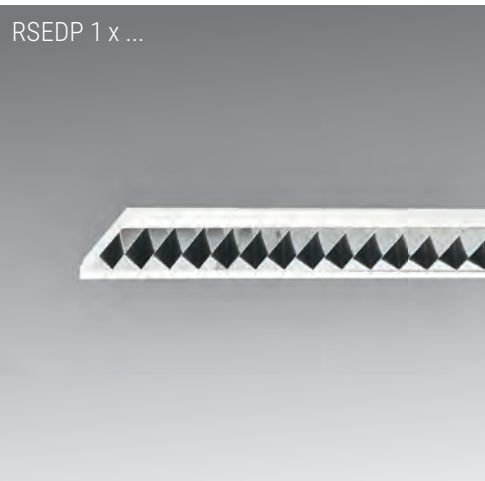
- For fitting with lamp(s) T8

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Accessories:**

- Order mounting rails WSPR for panel ceiling luminaires RE. P separately. The fastening clamp VA for luminaires for concealed asymmetric ceiling systems RE.-VA is included in the scope of delivery.

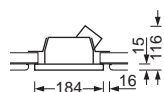


RSEDP 1x T8 58 W	RSXEP 2x T8 58 W	RME-VA 4x T8 18 W
$\eta_{LB}$ 63%	$\eta_{LB}$ 63%	$\eta_{LB}$ 62%
direct/indirect 100/0%	direct/indirect 100/0%	direct/indirect 100/0%
UGR lat./long. 12,9/16,4	UGR lat./long. 15,8/18,1	UGR lat./long. 17,8/18,5
VDU $65^\circ < 1000 \text{ cd/m}^2$	VDU $65^\circ < 3000 \text{ cd/m}^2$	

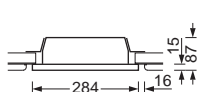
## Dimensions

Type	Versions	L2	LxBxH/DxH	T	MLxMB	Et	MB	Et
RE.-VA	T8 4x18W	40	621,5 x 621,5 x 86	79	625 x 625	160	-	-
RE.P	T8 1x36W	-	1231 x 184 x 116	101	-	-	100 / 200	180
	T8 1x58W	-	1531 x 184 x 116	101	-	-	100 / 200	180
	T8 2x36W	-	1231 x 284 x 87	72	-	-	100 / 150	180
	T8 2x58W	-	1531 x 284 x 87	72	-	-	100 / 150	180

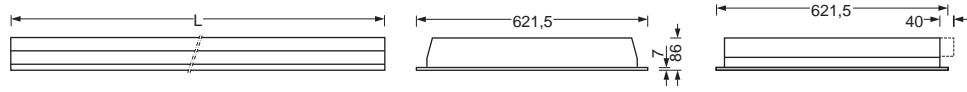
RE. 1x ...

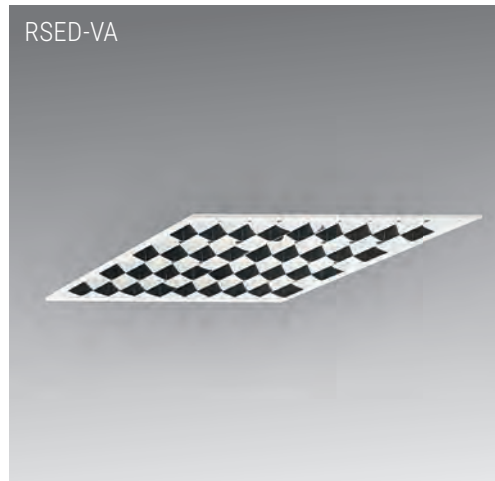
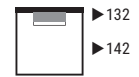


RE. 2x ...



RE. 4x ...





## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Parabolic louvre, highly specular direct distribution</i>							
RSED-VA	T8 4x18W	76	vw	ECG	621,5 x 621,5 x 86	7404 4184 170	3,78
RSEDP	T8 1x36W	36	vw	ECG	1231 x 184 x 116	7304 1364 170	4,31
	T8 1x58W	55	vw	ECG	1531 x 184 x 116	7304 1584 170	5,60
	T8 2x36W	72	vw	ECG	1231 x 284 x 87	7304 2364 170	4,90
	T8 2x58W	110	vw	ECG	1531 x 284 x 87	7304 2584 170	6,37
	<i>Parabolic louvre, matt direct distribution</i>						
RSXE-VA	T8 4x18W	76	vw	ECG	621,5 x 621,5 x 86	7404 4184 150	3,65
RSXEP	T8 1x36W	36	vw	ECG	1231 x 184 x 116	7304 1364 150	4,12
	T8 1x58W	55	vw	ECG	1531 x 184 x 116	7304 1584 150	4,21
	T8 2x36W	72	vw	ECG	1231 x 284 x 87	7304 2364 150	4,70
	T8 2x58W	110	vw	ECG	1531 x 284 x 87	7304 2584 150	6,16
	<i>Louvre, white direct distribution</i>						
RME-VA	T8 4x18W	76	vw	ECG	621,5 x 621,5 x 86	7404 4184 110	3,72
RMEP	T8 1x36W	36	vw	ECG	1231 x 184 x 116	7304 1364 110	5,37
	T8 1x58W	55	vw	ECG	1531 x 184 x 116	7304 1584 110	6,80
	T8 2x36W	72	vw	ECG	1231 x 284 x 87	7304 2364 110	6,60
	T8 2x58W	110	vw	ECG	1531 x 284 x 87	7304 2584 110	8,88

## Accessories

Type	Colour	Material	Details	Item number		kg
<i>Electrical technology</i>						
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm <sup>2</sup> for light run-capable LEDT5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1 0,16
Emergency lamp socket	E14 H	ws	Polymer	E14/IT-25 horiz. for T8	9452 0320 100	1 0,20
<i>Mounting</i>						
Mounting rail	WSPR 1/36	me	St	h=20-35mm for R...E...P 1/36	7994 1360 100	3 1,56
	WSPR 1/58	me	St	h=20-35mm for R...E...P 1/58	7994 1580 100	3 1,90
	WSPR 2/36	me	St	h=20-35mm for R...E...P 2/36	7994 2360 100	2 1,56
	WSPR 2/58	me	St	h=20-35mm for R...E...P 2/58	7994 2580 100	2 1,90



# UE

## UE universal recessed luminaires – efficiency improvements made easy

The consistent design concept of the UE is so flexible that it can be integrated successfully in the most diverse application areas. In order to make the work of planners and electricians as simple as possible, Regiolux has also developed corresponding concepts and circuit diagrams. The control components and sensors, which are for example required for office rooms with daylight and presence control, were already integrated in the master luminaires. On average, the potentially realizable savings when using energy-efficient light controls is certified at over 50%. Universal features of the installation variants of the UE: Suitable for ceilings with visible T-rails, concealed symmetrical rail constructions and cut-out ceilings. Suitable for both 625 x 625 and 600 x 600 mm axis dimensions. Their universal character is also evident in the lighting technology. A multitude of power ratings, optics and lamp technologies, dimmable versions and additional emergency light fittings are proof of this versatility. So for every electrical or lighting challenge the UE series has a solution available.

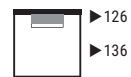


### Type overview

- ▶ UEX Parabolic louvre, silky matt direct distribution
- ▶ UED Parabolic louvre, highly specular direct distribution
- ▶ UEM Louvre, white direct distribution
- ▶ UESX Parabolic louvre, matt direct distribution
- ▶ UE./6 for 600 x 600 mm ceiling systems



# UE LED



LED A+ A++ 1000 CE IP 20

## Mounting:

- Ceiling recessed

## Housing:

- Sheet steel
- Suitable for ceiling system: ceilings with visible T-rails; concealed symmetrical rail construction; cut-out ceilings

## Lighting technology UEX:

- Parabolic louvre, silky matt
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

## Lamp:

- LED 50000h L80/B10
- CRI  $\geq 80$  / 4000K

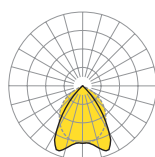
## Switching:

- 1 Control gear
- Electronic driver
- 230V 50Hz

## Accessories:

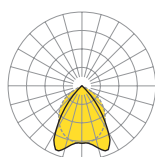
- UBB T5/LED universal mounting brackets for concealed symmetrical rail constructions or recessed ceilings and SCT CLIPS securing clips for ceilings with visible T-rails, to be ordered separately.

UEX LED



UEX/600 LED  
3000 lm 840

$\eta_{LB}$  100%  $\eta_{LB}$  100%  
lm/W 139 lm/W 135  
direct/indirect 100/0% direct/indirect 100/0%  
UGR lat./long. 10,4/15,6 UGR lat./long. 11,4/16,6  
VDU  $65^\circ < 1000 \text{ cd/m}^2$  VDU  $65^\circ < 1000 \text{ cd/m}^2$

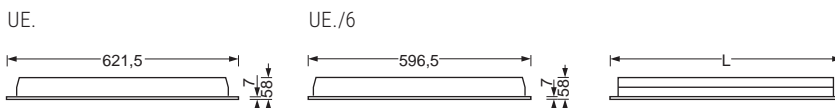


UEX/625 LED  
4000 lm 840

## Dimensions

Type	Versions	LxBxH/DxH	T	MLxMB	Et <sup>1)</sup>	MLxMB	Et	DA <sub>i</sub> xDA <sub>e</sub>	Et
UE./600	LED	596,5 x 596,5 x 58	51	600 x 600	250	600 x 600	120	585 x 585	120
UE./625	LED	621,5 x 621,5 x 58	51	625 x 625	250	625 x 625	120	585 x 585	120

<sup>1)</sup>e = minimum ceiling distance (however only when ceiling construction and luminaires are simultaneously installed): 140 mm

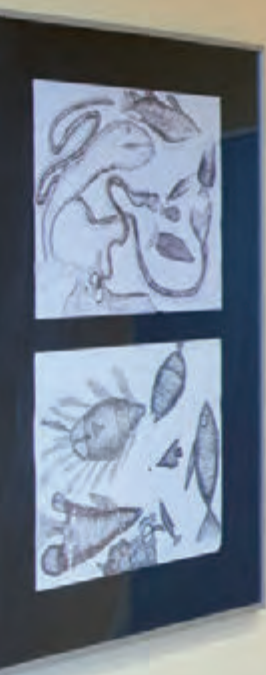


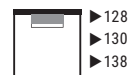
## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Parabolic louvre, silky matt direct distribution</i>							
UEX/600	LED 3000lm 840	22	vw	ED	596,5 x 596,5 x 58	7662 0404 160	3,90
				DALI	596,5 x 596,5 x 58	7662 0406 660	3,90
	LED 4000lm 840	29	vw	ED	596,5 x 596,5 x 58	7662 0504 160	3,90
				DALI	596,5 x 596,5 x 58	7662 0506 660	3,90
UEX/625	LED 3000lm 840	22	vw	ED	621,5 x 621,5 x 58	7602 0404 160	3,90
				DALI	621,5 x 621,5 x 58	7602 0406 660	3,90
	LED 4000lm 840	29	vw	ED	621,5 x 621,5 x 58	7602 0504 160	3,90
				DALI	621,5 x 621,5 x 58	7602 0506 660	3,90

## Accessories

Type	Colour	Material	Details	Item number	kg
<i>Mounting</i>					
Fastening bracket	UBB T5/LED	me	St	for UE T5/LED, RSEX T5/LED	7995 0504 100 4 0,20
Securing	SCT CLIPS	me	St	for UE, RSE..., RSXE, RME, BEL..., PNE..., PRE..., PEMP/625..., PEO/625...	7995 0000 100 4 0,10





**Mounting:**

- Ceiling recessed

**Housing:**

- Sheet steel
- Suitable for ceiling system: ceilings with visible T-rails; concealed symmetrical rail construction; cut-out ceilings

**Lighting technology UED:**

- Parabolic louvre, highly specular reflectivity enhanced
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 1500 \text{ cd/m}^2$

**Lighting technology UEX:**

- Parabolic louvre, silky matt reflectivity enhanced
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology UEM:**

- Louvre, white
- Lighting characteristic direct distribution

**Lamp:**

- For fitting with lamp(s) T5

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Accessories:**

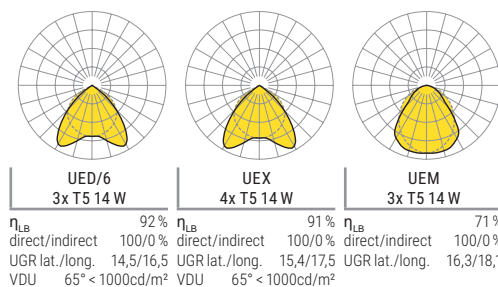
- UBB T5/LED universal mounting brackets for concealed symmetrical rail constructions or recessed ceilings and SCT CLIPS securing clips for ceilings with visible T-rails, to be ordered separately. Remote controls for commissioning and/or operation of master luminaires M5S5 to be ordered separately.



The master luminaires M5S5 are equipped with light and presence sensors and a control unit.



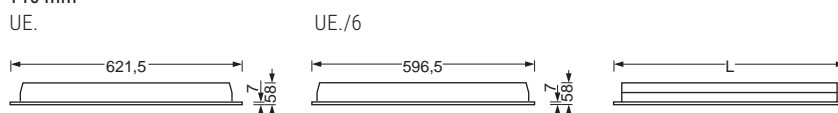
Different ceiling modules are compensated for in the width of the housing

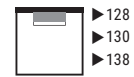


## Dimensions


Type	Versions	LxBxH/DxH	T	MLxMB	Et	MLxMB	Et	DA <sub>1</sub> xDA <sub>2</sub>	Et
UE.	T5 3x14, 24 W	621,5 x 621,5 x 58	51	625 x 625	250	625 x 625	120	585 x 585	120
	T5 4x14, 24 W	621,5 x 621,5 x 58	51	625 x 625	250	625 x 625	120	585 x 585	120
UE./6	T5 3x14, 24 W	596,5 x 596,5 x 58	51	600 x 600	250	600 x 600	120	585 x 585	120
	T5 4x14, 24 W	596,5 x 596,5 x 58	51	600 x 600	250	600 x 600	120	585 x 585	120

<sup>1)</sup>e = minimum ceiling distance (however only when ceiling construction and luminaires are simultaneously installed): 140 mm







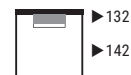
## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Parabolic louvre, highly specular direct distribution</i>							
UED	T5 3x14W	48	vw	ECG	621,5 x 621,5 x 58	7607 3144 170	4,10
				ECG DALI	621,5 x 621,5 x 58	7607 3146 670	4,10
	T5 3x24W	78	vw	ECG	621,5 x 621,5 x 58	7607 3244 170	4,10
	T5 4x14W	64	vw	ECG	621,5 x 621,5 x 58	7607 4144 170	3,90
				ECG DALI	621,5 x 621,5 x 58	7607 4146 670	3,90
				ECG EM pack B3	621,5 x 621,5 x 58	7607 4147 770	4,30
T5 4x24W	104	vw	ECG	621,5 x 621,5 x 58	7607 4244 170	3,90	
UED/6	T5 3x14W	48	vw	ECG	596,5 x 596,5 x 58	7667 3144 170	3,90
				ECG DALI	596,5 x 596,5 x 58	7667 3146 670	3,90
	T5 4x14W	64	vw	ECG	596,5 x 596,5 x 58	7667 4144 170	3,70
				ECG DALI	596,5 x 596,5 x 58	7667 4146 670	3,70
				ECG EM pack B3	596,5 x 596,5 x 58	7667 4147 770	4,10
<i>Parabolic louvre, silky matt direct distribution</i>							
UEX	T5 3x14W	48	vw	ECG	621,5 x 621,5 x 58	7607 3144 160	4,03
				ECG DALI	621,5 x 621,5 x 58	7607 3146 660	4,03
	T5 4x14W	64	vw	ECG	621,5 x 621,5 x 58	7607 4144 160	3,80
				ECG DALI	621,5 x 621,5 x 58	7607 4146 660	3,80
				ECG EM pack B3	621,5 x 621,5 x 58	7607 4147 760	4,20
T5 M5S5 DALI	621,5 x 621,5 x 58	8477 4148 660	3,90				
UEX/6	T5 3x14W	48	vw	ECG	596,5 x 596,5 x 58	7667 3144 160	3,80
				ECG DALI	596,5 x 596,5 x 58	7667 3146 660	3,83
	T5 4x14W	64	vw	ECG	596,5 x 596,5 x 58	7667 4144 160	3,60
				ECG DALI	596,5 x 596,5 x 58	7667 4146 660	3,60
ECG EM pack B3	596,5 x 596,5 x 58	7667 4147 760	4,00				
<i>Louvre, white direct distribution</i>							
UEM	T5 3x14W	48	vw	ECG	621,5 x 621,5 x 58	7604 3144 110	4,20
				ECG DALI	621,5 x 621,5 x 58	7604 3146 610	4,20
	T5 4x14W	64	vw	ECG	621,5 x 621,5 x 58	7604 4144 110	4,00
				ECG DALI	621,5 x 621,5 x 58	7604 4146 610	4,00
				ECG EM pack B3	621,5 x 621,5 x 58	7604 4147 710	4,40
UEM/6	T5 3x14W	48	vw	ECG	596,5 x 596,5 x 58	7664 3144 110	4,00
				ECG DALI	596,5 x 596,5 x 58	7664 3146 610	4,00
	T5 4x14W	64	vw	ECG	596,5 x 596,5 x 58	7664 4144 110	3,80
				ECG DALI	596,5 x 596,5 x 58	7664 4146 610	3,80
ECG EM pack B3	596,5 x 596,5 x 58	7664 4147 710	4,20				

## Accessories

Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>						
Light Control	LC-OM MASTER REMOTE PC KIT		Remote control for commissioning the DALIeco (M5S5) light control system	8450 1041 200	1	0,11
	LC-OM USER REMOTE		Remote control for the operation of the DALIeco (M5S5) light control system	8450 1042 100	1	0,11
<i>Mounting</i>						
Fastening bracket	UBB T5/LED	me	St	for UE T5/LED, RSEX T5/LED	7995 0504 100	4 0,20
Securing	SCT CLIPS	me	St	for UE, RSE..., RSXE, RME, BEL..., PNE..., PRE..., PEMP/625..., PEO/625...	7995 0000 100	4 0,10





**Mounting:**

- Ceiling recessed

**Housing:**

- Sheet steel
- Suitable for ceiling system: ceilings with visible T-rails; concealed symmetrical rail construction; cut-out ceilings

**Lighting technology UED:**

- Parabolic louvre, highly specular
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology UESX:**

- Parabolic louvre, matt
- Lighting characteristic direct distribution suited for VDU workstations,  $65^\circ < 1500 \text{ cd/m}^2$

**Lighting technology UEM:**

- Louvre, white
- Lighting characteristic direct distribution

**Lamp:**

- For fitting with lamp(s) T8

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Miscellaneous:**

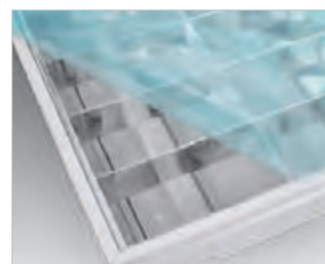
- Variant Q:
- Lamps neutral white (-nw-840) are included in delivery. Light technology protected by foil.

**Accessories:**

- UBB universal mounting brackets for concealed symmetrical rail constructions or cut-out ceilings and SCT safety clips for ceilings with visible T-rails, to be ordered separately



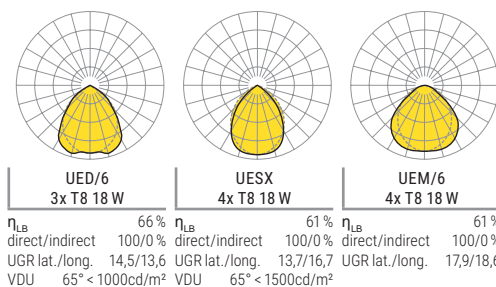
With the Quick-types (Q), the electrical connection of the luminaire is carried out through a plug-in connection from the outside.



With the quick-types (-Q), the lamp compartment and lighting technology are protected from contamination in the construction phase by a protective adhesive film.



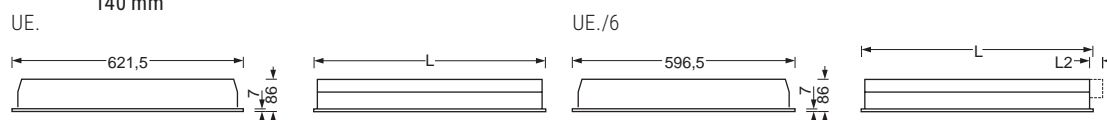
For luminaires for ceiling systems with modules 300 and 600 mm there is a frame projection L2 on one side.

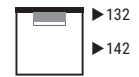


**Dimensions**


Type	Versions	L2	LxBxH/DxH	T	MLxMB	Et	MLxMB	Et	DA <sub>1</sub> xDA <sub>2</sub>	Et
UE.	T8 3x18W	-	621,5 x 621,5 x 86	79	625 x 625	250	625 x 625	150	615 x 608	150
	T8 4x18W	-	621,5 x 621,5 x 86	79	625 x 625	250	625 x 625	150	615 x 608	150
UE./6	T8 3x18W	40	596,5 x 596,5 x 86	79	600 x 600	250	600 x 600	150	590 x 583	150
	T8 4x18W	40	596,5 x 596,5 x 86	79	600 x 600	250	600 x 600	150	590 x 583	150

<sup>1)</sup>e = minimum ceiling distance (however only when ceiling construction and luminaires are simultaneously installed): 140 mm







## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Parabolic louvre, highly specular direct distribution</i>							
UED	T8 3x18W	57	vw	ECG	621,5 x 621,5 x 86	7604 3184 170	3,60
				ECG DALI	621,5 x 621,5 x 58	7604 3186 670	3,72
	T8 4x18W	76	vw	ECG	621,5 x 621,5 x 86	7604 4184 170	3,57
				ECG DALI	621,5 x 621,5 x 58	7604 4186 670	3,86
				ECG EM pack B3	621,5 x 621,5 x 86	7604 4187 770	4,36
				ECG EM pack B3	621,5 x 621,5 x 86	7604 4187 770	4,36
UED/6	T8 3x18W	57	vw	ECG	596,5 x 596,5 x 86	7604 3194 170	3,35
				ECG DALI	596,5 x 596,5 x 86	7604 3196 670	4,91
	T8 4x18W	76	vw	ECG	596,5 x 596,5 x 86	7604 4194 170	3,48
				ECG DALI	596,5 x 596,5 x 86	7604 4196 670	3,61
ECG EM pack B3	596,5 x 596,5 x 86	7604 4197 770	4,11				
ECG EM pack B3	596,5 x 596,5 x 86	7604 4197 770	4,11				
<i>Parabolic louvre, matt direct distribution</i>							
UESX	T8 3x18W	57	vw	ECG	621,5 x 621,5 x 86	7604 3184 150	3,47
				ECG DALI	621,5 x 621,5 x 86	7604 3186 650	3,59
	T8 4x18W	76	vw	ECG	621,5 x 621,5 x 86	7604 4184 150	3,60
				ECG DALI	621,5 x 621,5 x 86	7604 4186 650	3,73
ECG EM pack B3	621,5 x 621,5 x 86	7604 4187 750	4,23				
ECG EM pack B3	621,5 x 621,5 x 86	7604 4187 750	4,23				
UESX/6	T8 4x18W	76	vw	ECG	596,5 x 596,5 x 86	7604 4194 150	3,36
				ECG DALI	596,5 x 596,5 x 86	7604 4196 650	3,48
				ECG EM pack B3	596,5 x 596,5 x 86	7604 4197 750	3,98
ECG EM pack B3	596,5 x 596,5 x 86	7604 4197 750	3,98				
<i>Louvre, white direct distribution</i>							
UEM	T8 3x18W	57	vw	ECG	621,5 x 621,5 x 86	7604 3184 110	3,56
				ECG DALI	621,5 x 621,5 x 86	7604 3186 610	3,68
	T8 4x18W	76	vw	ECG	621,5 x 621,5 x 86	7604 4184 110	3,65
				ECG DALI	621,5 x 621,5 x 86	7604 4186 610	3,78
ECG EM pack B3	621,5 x 621,5 x 86	7604 4187 710	4,28				
ECG EM pack B3	621,5 x 621,5 x 86	7604 4187 710	4,28				
UEM/6	T8 4x18W	76	vw	ECG	596,5 x 596,5 x 86	7604 4194 110	3,42
				ECG DALI	596,5 x 596,5 x 86	7604 4196 610	3,48
				ECG EM pack B3	596,5 x 596,5 x 86	7604 4197 710	4,04
ECG EM pack B3	596,5 x 596,5 x 86	7604 4197 710	4,04				

## Accessories

Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>						
Emergency lamp socket	E14 H	ws	Polymer	E14/IT-25 horiz. for T8	9452 0320 100	1 0,20
<i>Mounting</i>						
Fastening bracket	UBB 4	me	St	for UE T8, K...E..., R...E...1/,2/, ELP, EGS	7995 0004 100	4 0,20
Securing	SCT CLIPS	me	St	for UE, RSE..., RSXE, RME, BEL..., PNE..., PRE..., PEMP/625..., PEO/625...	7995 0000 100	4 0,10



# Wall and standing luminaires



alvia



▶229

▶230 ALWFA LED

visula



▶233

▶236 VSSIMP LED

visula



▶233

▶237 VSWIG LED

smile



▶239

▶240 SLG LED

MLS



▶243

▶244 MLST5





# Wall luminaires

## from other chapters



### Surface-mounted luminaires

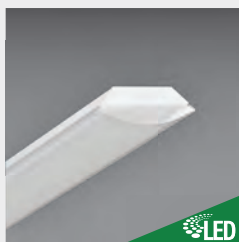
peanut

▶ 98



lens line

▶ 150



wotek

▶ 146



KL

▶ 160



WBLR, WQL

▶ 168



### Light strips and furniture luminaires

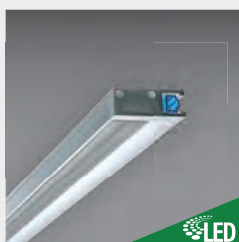
ilia

▶ 278



vakant

▶ 282



MLF

▶ 290



IL

▶ 294



### Damp-proof luminaires

WBLS

▶ 464



PU

▶ 472



PA

▶ 476



PC

▶ 478





# alvia

## alvia wall luminaire - light technology for efficient lighting



With minimal dimensions, alvia wall luminaire succeeds in illuminating spaces effectively and efficiently through sophisticated lighting technology. Thanks to the asymmetric light distribution and the precise optics of Fresnel-lenses, floor and ceiling can be illuminated deep into the room. The LED-technology with distinguished levels of performance contributes to ideal and uniform light distribution. The wall luminaire has only one attractive light-corona and sets the stage with a classy aluminium body. High luminous flux coupled with distinguished lighting technology means that desired illumination level can be attained with lesser luminaires. Guarantee of success of any lighting designer, who establishes lighting accent efficiently.



### Type overview

- ▶ ALWFA Fresnel lens, diffuser, frosted direct asymmetrical/indirect symmetrical distribution



LED A+ CE IP 20

**Mounting:**

- Wall mounting
- Mounting on furniture

**Housing:**

- Extruded aluminium profile naturally anodised, end faces aluminium natural anodised

**Lighting technology ALWFA:**

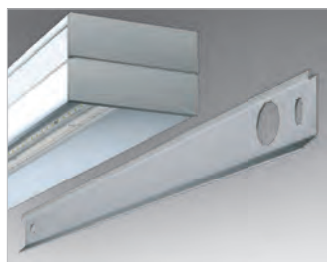
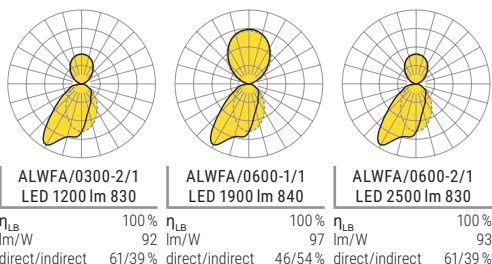
- Fresnel lens, diffuser, frosted; PMMA plastic
- Lighting characteristic direct asymmetrical/indirect symmetrical distribution

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K or CRI ≥ 80 / 3000K

**Switching:**

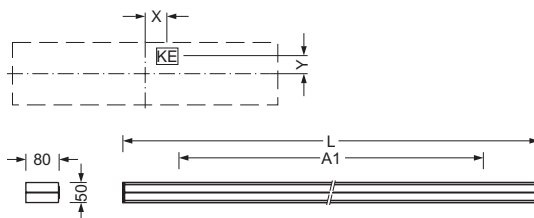
- 1 Control gear
- Electronic driver
- 230V 50Hz



Mounting plate with simple leveling and directional adjustment

**Dimensions**

Type	Versions	LxBxH/DxH	A1	KE X/Y
ALW./0300-1/1	LED	290 x 50 x 80	240	-95 / 0
ALW./0300-2/1	LED	290 x 50 x 80	240	-95 / 0
ALW./0600-1/1	LED	570 x 50 x 80	520	0 / 0
ALW./0600-2/1	LED	570 x 50 x 80	520	0 / 0



**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Fresnel lens, diffuser, frosted direct asymmetrical/indirect symmetrical distribution</i>							
alvia-ALWFA/0300-1/1	LED 900lm 830	10	aen	ED	290 x 50 x 80	4221 0054 135	1,50
	LED 900lm 840	10	aen	ED	290 x 50 x 80	4221 0044 135	1,50
alvia-ALWFA/0300-2/1	LED 1200lm 830	14	aen	ED	290 x 50 x 80	4221 1054 135	1,50
	LED 1300lm 840	14	aen	ED	290 x 50 x 80	4221 1044 135	1,50
alvia-ALWFA/0600-1/1	LED 1800lm 830	19	aen	ED	570 x 50 x 80	4222 0054 135	1,85
	LED 1900lm 840	19	aen	ED	570 x 50 x 80	4222 0044 135	1,85
alvia-ALWFA/0600-2/1	LED 2500lm 830	27	aen	ED	570 x 50 x 80	4222 1054 135	1,85
	LED 2600lm 840	27	aen	ED	570 x 50 x 80	4222 1044 135	1,85







# visula

## visula floor-standing luminaire – function combined with design



Modern office environments have a multitude of rooms, some with an informal character and some with a formal character, which should be addressed equally. Vertical lighting intensity is required for meeting zones, conference rooms and also corridors. This is where the wall-mounted luminaire „visula“ reveals its strengths. The design luminaire was developed in cooperation with Busse Design+Engineering GmbH. The homogeneously illuminated diffuser forms a virtually planar luminous surface. It is enclosed by an aluminium section which also serves as a stylish frame. Light is given form with this design concept. The design has been convincingly transformed into a floor-standing version for the optimal lighting of flexible workstations.



### Type overview

- ▶ VSSIMP Top diffuser clear / bottom diffuser  
micro-prismatic direct/indirect distribution
- ▶ VSWG Diffuser, frosted direct/indirect distribution  
for wall lighting homogeneous light output  
through LED edge light injection

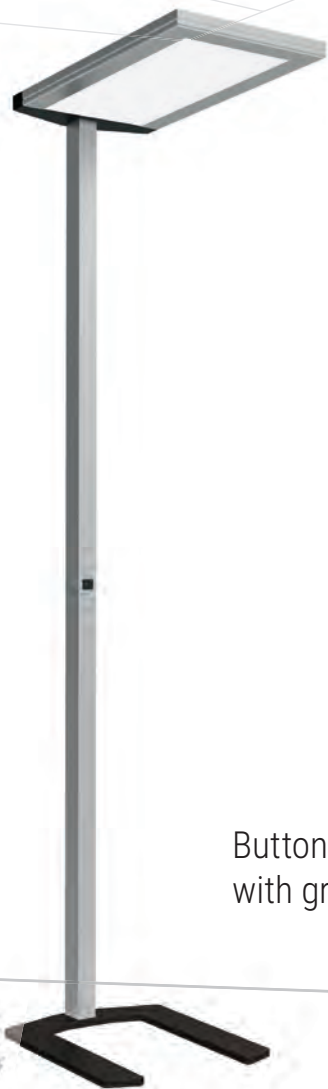


# visula LED

## Standing and wall luminaire



Sensors for daylight-dependent control with presence monitoring for maximum comfort



Button dimming for simple operation with greatest possible customization



## Design concept for high-quality office lighting

- LED standing luminaire for two-component office lighting
- LED wall-mounted luminaire for vertical illuminance
- Top marks for luminous efficacy and efficiency
- Standing luminaire with separately switchable direct/indirect components
- Flat and weightless form by Busse Design+Engineering
- Homogeneous light output due to LED edge light injection





▶32



▶84

LED A++ 3000 CE IP 20

**Mounting:**

- Standing

**Housing:**

- Extruded aluminium profile, naturally anodised;

**Lighting technology VSSIMP:**

- Top diffuser clear / bottom diffuser micro-prismatic; PMMA plastic
- Lighting characteristic direct/indirect distribution suited for VDU workstations,  $65^\circ < 3000 \text{ cd/m}^2$

**Lamp:**

- LED 50000h L80/B10
- CRI  $\geq 80$  / 4000K

**Switching:**

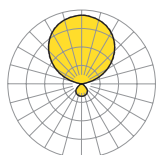
- Various switching modes available
- 2 control gears
- Electronic driver
- 230V 50Hz

**Miscellaneous:**

- Sand-cast base also available in white aluminium (RAL 9006) on request

**Accessories:**

- Remote controls for commissioning and/or operation of master luminaires M5S5 must be ordered separately.



**VSSIMP LED**  
15700 lm 840

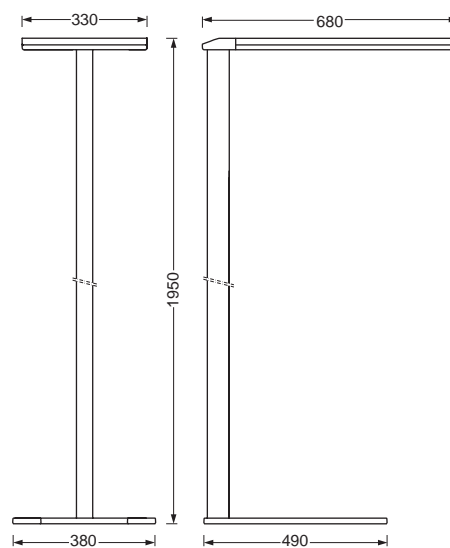
$\eta_{\text{LED}}$  100%  
lm/W 150  
direct/indirect 13/87%  
VDU  $65^\circ < 3000 \text{ cd/m}^2$



General view

**Dimensions**

Type	Versions	LxBxH/DxH	FL	FB	KL	KB	KH
VSSI.	LED	680 x 330 x 1950	490	380	680	330	30



**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Top diffuser clear / bottom diffuser micro-prismatic direct/indirect distribution</i>							
visula-VSSIMP	LED 15700lm 840	105	aen	ED	680 x 330 x 1950	4371 1304 175	18,42
		105	aen	dim touch	680 x 330 x 1950	4371 1306 575	18,42
		105	aen	M5S5 DALI	680 x 330 x 1950	4371 1308 175	18,42

LED A+ IP 20

**Mounting:**

- Wall mounting
- Ceiling surface

**Housing:**

- Extruded aluminium profile, naturally anodised, visible installation height 30 mm

**Lighting technology VSWIG:**

- Diffuser, frosted; PMMA plastic
- Lighting characteristic direct/indirect distribution for wall lighting

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Switching:**

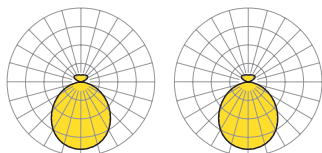
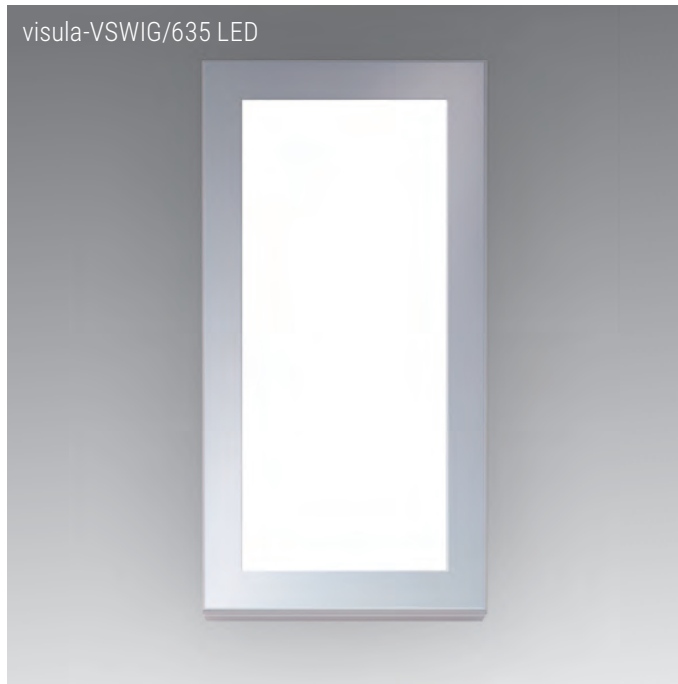
- 1 Control gear
- Electronic driver
- 230V 50Hz

**Miscellaneous:**

- Wall mounting brackets for simple clip mounting are included in the scope of delivery.

**Mounting instructions:**

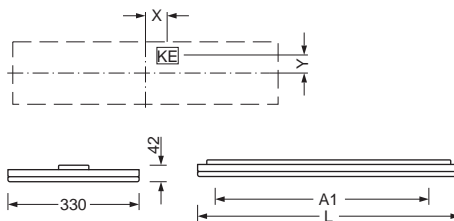
- For wall mounting only vertical positioning is allowed



VSWIG/635 LED 2600 lm 840		VSWIG/355 LED 1300 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	107	lm/W	104
direct/indirect	84/16%	direct/indirect	84/16%

**Dimensions**

Type	Versions	LxBxH/DxH	W	A1	KE X/Y
VSW./355	LED	355 x 330 x 42	330	265	0 / 0
VSW./635	LED	635 x 330 x 42	330	548	0 / 0



visula VSWIG/355

**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, frosted direct/indirect distribution for wall lighting homogeneous light output through LED edge light injection</i>							
visula-VSWIG/355	LED 1300lm 840	12	aen	ED	355 x 330 x 42	4360 1034 115	2,40
visula-VSWIG/635	LED 2600lm 840	24	aen	ED	635 x 330 x 42	4361 1044 115	4,15
		24	aen	DALI	635 x 330 x 42	4361 1046 615	4,15





# smile

## smile - this smile is infectious

Since decades we characterise our mirror lamps with the terms „economic, practical and universal“. More than ever, the smile LED mirror luminaire meets the statement of economic lighting for all situations. Our smile gives proof of the fact how timeless and consistent design sometimes is. We do not accept compromises to meet your demands for pleasant illumination also in a functional environment. Reliability and optimal light effect are a matter of course and are other basic requirements for a successful mirror luminaire. smile with Regiolux.



## Type overview

- ▶ SLG Diffuser, opal direct/indirect distribution

# smile LED

   850°C    IP 44

**Mounting:**

- Wall mounting
- Mounting on furniture

**Housing:**

- Housing made of anodised extruded aluminium profile with end faces made of polycarbonate plastic

**Lighting technology SLG:**

- Diffuser, opal; PC plastic
- Lighting characteristic direct/indirect distribution

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K or CRI ≥ 80 / 3000K

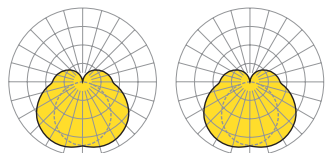
**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

**Mounting instructions:**

- Note for protection rating: IP40 with ceiling mounting, IP44 with wall mounting

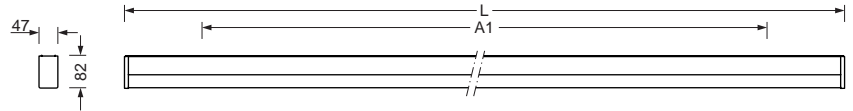
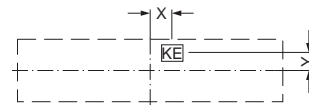
smile-SLG LED




SLG/0600 LED 1000 lm 830		SLG/1200 LED 2000 lm 840	
$\eta_{LB}$ lm/W	100% 105	$\eta_{LB}$ lm/W	100% 110
direct/indirect	77/23%	direct/indirect	77/23%

**Dimensions**

Type	Versions	LxBxH/DxH	A1	KE X/Y
SLG/0600	LED	600 x 47 x 82	350	150 / 0
SLG/1200	LED	1160 x 47 x 82	900	0 / 0



**Products**

Type	Lamps	P <sub>95</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, opal direct/indirect distribution</i>							
smile-SLG/0600	LED 1000lm 830	9	aen	ED	600 x 47 x 82	1616 1634 125	0,90
	LED 1000lm 840	9	aen	ED	600 x 47 x 82	1616 1644 125	0,90
smile-SLG/1200	LED 2000lm 830	18	aen	ED	1160 x 47 x 82	1616 1234 125	1,70
	LED 2000lm 840	18	aen	ED	1160 x 47 x 82	1616 1244 125	1,70







# MLS

## MLS mirror luminaire – radiant, soft and free of glare



The mirror luminaire MLS proves special class in its reluctance. The external form in shape of a rounded triangular prism is designed for seamless integration in the respective environment. Thereby, it comes to the fore due to its illuminating precedence. Thanks to the soft opal coloured polycarbonate-profile casting a mild light, this ensures pleasant atmosphere in coffee-kitchens and rest rooms.

Among various tasks, security plays an important role. The mirror luminaire MLS is the one which adapts to changed standardized situation and is offered in the protection class IP54. Thereby it is easy for planner and artisanry to illuminate rest rooms elegantly and in conformity with standards.

### Type overview

- ▶ MLS Diffuser, satined direct/indirect distribution

# MLS T5



**Mounting:**

- Ceiling surface
- Mounting on furniture

**Housing:**

- Housing made of anodised extruded aluminium profile, white front sides made of polycarbonate

**Lighting technology MLS:**

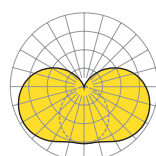
- Diffuser, satined; PC plastic
- Lighting characteristic direct/indirect distribution

**Lamp:**

- For fitting with lamp(s) T5

**Switching:**

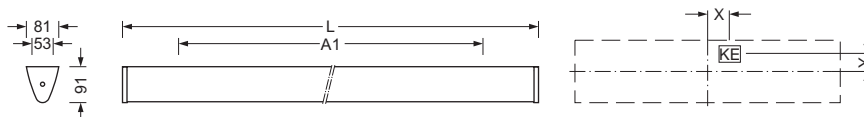
- 1 Control gear
- Electronic ballast
- 230V 50Hz



MLS  
1x T5 14 W  
 $\eta_{LB}$  89%  
direct/indirect 72/28%

## Dimensions

Type	Versions	LxBxH/DxH	A1	A4	KE X/Y
MLS	T5 1x14, 24 W	600 x 81 x 91	450	53	215 / 0
	T5 1x21, 39 W	900 x 81 x 91	750	53	365 / 0
	T5 1x28, 54 W	1200 x 81 x 91	1050	53	515 / 0



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, satined direct/indirect distribution</i>							
MLS	T5 1x14W	16	vw	ECG	600 x 81 x 91	1632 1144 100	0,84
	T5 1x21W	23	vw	ECG	900 x 81 x 91	1632 1214 100	1,21
	T5 1x28W	30	vw	ECG	1200 x 81 x 91	1632 1284 100	1,74







## for ceilings with panels

doma ▶ 250



## for cut-out ceilings

doma ▶ 250



relo ▶ 256



loda ▶ 260



rotara ▶ 264



rotara ▶ 266



# Downlights, spotlights and tracks

doma



▶249

- ▶ 250 DES LED
- ▶ 250 DESB LED
- ▶ 252 DESD TC-DEL

relo



▶255

- ▶ 256 RDES-O LED

loda



▶259

- ▶ 260 LDES0 LED

rotara



▶263

- ▶ 264 ROEQT LED
- ▶ 264 ROET LED

rotara



▶263

- ▶ 266 ROTT LED

DPSN



▶270







# doma

## doma – universal downlight for many areas of application

A lighting project is bound to be successful when using the downlights of the doma series. A combination of high quality materials and workmanship with superior lighting technology. For energy-efficient concepts there is also a wide variety of high performance LED solutions available. The universal character is emphasized by a multitude of lighting technology and purposeful accessories. With the various construction types any lighting system may be flexibly designed to meet any architectural and representative demands. With additional décor and front rings different atmospheres can be created. The lighting technology is protected by covers, and the protection rate IP54 provides for the highest lighting maintenance factor. Simple installation and assembly as well as easy handling the professional aspects of product design are accounted for. Typical for the doma family.



### Type overview

- ▶ DES Mirror reflector, highly specular, with cover frame direct narrow/wide distribution
- ▶ DESB Mirror reflector, highly specular, with cover frame direct wide distribution
- ▶ DESD Mirror reflector, highly specular direct distribution
- ▶ DES. 195 Ceiling cut-out 229 mm





LED A++ A+ 1000 CE IP 20

**Mounting:**

- Ceiling recessed

**Housing:**

- Housing frame made of zinc-coated sheet steel, aluminium heat sink, mounting and cover ring of polyamide (PA)
- Suitable for ceiling system: cut-out ceilings; panel ceiling

**Lighting technology DES:**

- Mirror reflector, highly specular, with cover frame
- Lighting characteristic direct narrow/wide distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lighting technology DESB:**

- Mirror reflector, highly specular, with cover frame
- Lighting characteristic direct wide distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

**Lamp:**

- LED 50000h L80/B10
- CRI  $\geq 80$  / 4000K

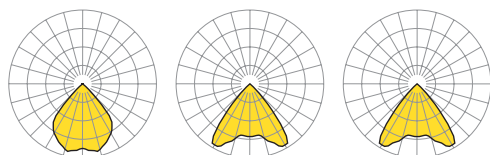
**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

**Accessories:**

- DES-BR vw cover ring included in scope of supply. Downlight prepared for covers, please order corresponding accessories separately.

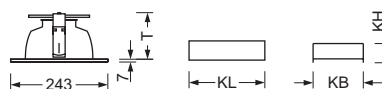
doma-DES LED  
doma-DESB LED



DES 195 LED 1400 lm 840	DESB 195 LED 1900 lm 840	DESB 195 LED 2500 lm 840
$\eta_{LB}$ 100% lm/W 126	$\eta_{LB}$ 100% lm/W 115	$\eta_{LB}$ 100% lm/W 110
direct/indirect 100/0%	direct/indirect 100/0%	direct/indirect 100/0%
UGR lat./long. 17,6/17,6	UGR lat./long. 18,6/18,6	UGR lat./long. 19,7/19,7
VDU $65^\circ < 1000 \text{ cd/m}^2$	VDU $65^\circ < 1000 \text{ cd/m}^2$	VDU $65^\circ < 1000 \text{ cd/m}^2$

**Dimensions**

Type	Versions	DxH	T	KL	KB	KH	DA	Et	DS min/max
DES. 195	LED	243 x 120	120	167	146	48	229	165	10 - 25





The downlights are fixed by adjustable fixing springs.

**Products**

Type	Versions	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Mirror reflector, highly specular, with cover frame direct wide distribution</i>							
doma-DESB 195	LED 1900lm 840	16	ws	ED	243 x 120	3694 0134 120	0,84
		16	ws	DALI	243 x 120	3694 0136 620	0,84
	LED 2500lm 840	23	ws	ED	243 x 120	3694 0154 120	1,23
		23	ws	DALI	243 x 120	3694 0156 620	1,23
<i>Mirror reflector, highly specular, with cover frame direct narrow/wide distribution</i>							
doma-DES 195	LED 1400lm 840	11	ws	ED	243 x 120	3694 0114 110	0,84



## Accessories

	Type	Colour	Material	Details	Item number		
<i>Design</i>							
Cover frame	DES -BR 195	sg	PA	for DES, DESD	3699 1000 105	1	0,10
<i>Protection</i>							
Protective cover IP54	DES -IP 54/195	ws/tz	PA+glass(toughened safety glass)	IP 54 for DES, DESD	3699 1100 102	1	0,47
		ws/kl	PA+glass(toughened safety glass)	IP 54 for DES, DESD	3699 1100 101	1	0,47
<i>Mounting</i>							
Insert for panel ceilings	DES -EP 195	vw	St	Module 100/200 for DES, DESD	3699 8300 000	1	1,70
Reinforcing for mineral fibre ceilings	DES -EM 195	me	St	for DES, DESD	3699 8200 000	1	0,91
	DES -EM/6 195	me	St	for DES, DESD	3699 8260 000	1	0,87



# doma TC-DEL



IP 20

**Mounting:**

- Ceiling recessed

**Housing:**

- Housing frame, lamp holder and supply unit made of zinc-coated sheet steel, mounting ring made of polyamide (PA)
- Suitable for ceiling system: cut-out ceilings; panel ceiling

**Lighting technology DESD:**

- Mirror reflector, highly specular
- Lighting characteristic direct distribution

**Lamp:**

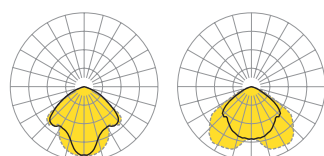
- For fitting with lamp(s) TC-DEL

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Accessories:**

- Downlight prepared for covers, please order corresponding accessories separately.



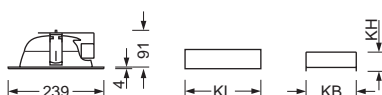
DESD 195 1x TC-DEL 13W		DESD 195 2x TC-DEL 26W	
$\eta_{LB}$	79%	$\eta_{LB}$	64%
direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	21,2/21,0	UGR lat./long.	25,0/26,4



The downlights are fixed by adjustable fixing springs.

## Dimensions

Type	Versions	LxBxH/DxH	T	KL	KB	KH	DA	Et	DS min/max
DES. 195	TC-DEL 1x13W	239 x 95	91	252	126	50	229	90	10 - 25
	TC-DEL 1x18W	239 x 95	91	252	126	50	229	90	10 - 25
	TC-DEL 1x26W	239 x 95	91	252	126	50	229	90	10 - 25
	TC-DEL 2x13W	239 x 95	91	252	126	50	229	90	10 - 25
	TC-DEL 2x18W	239 x 95	91	252	126	50	229	90	10 - 25
	TC-DEL 2x26W	239 x 95	91	252	126	50	229	90	10 - 25



## Products



Type	Versions	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Mirror reflector, highly specular direct distribution</i>							
doma-DESD 195	TC-DEL 1x13W G24q-1	14	ws	ECG	239 x 95	3692 1134 170	1,26
				ECG	239 x 95	3692 1184 170	1,26
				ECG DALI	239 x 95	3692 1186 670	1,36
				ECG EM pack B3	239 x 95	3692 1187 770	1,96
	TC-DEL 1x26W G24q-3	27	ws	ECG	239 x 95	3692 1264 170	1,26
				ECG DALI	239 x 95	3692 1266 670	1,36
				ECG EM pack B3	239 x 95	3692 1267 770	2,10
	TC-DEL 2x13W G24q-1	28	ws	ECG	239 x 95	3692 2134 170	1,39
				ECG DALI	239 x 95	3692 2184 170	1,39
	TC-DEL 2x18W G24q-2	38	ws	ECG	239 x 95	3692 2184 170	1,39
				ECG DALI	239 x 95	3692 2186 670	1,49
				ECG EM pack B3	239 x 95	3692 2187 770	2,09
TC-DEL 2x26W G24q-3	54	ws	ECG	239 x 95	3692 2264 170	1,39	
			ECG DALI	239 x 95	3692 2266 670	1,49	
			ECG EM pack B3	239 x 95	3692 2267 770	2,23	



# doma 195 accessories



## Accessories

	Type	Colour	Material	Details	Item number		
<i>Design</i>							
Cover frame	DES -BR 195	vw	PA	for DES, DESD	3699 1000 100	1	0,09
		sg	PA	for DES, DESD	3699 1000 105	1	0,10
<i>Protection</i>							
Protective cover IP54	DES -IP 54/195	ws/tz	PA+glass(toughened safety glass)	IP 54 for DES, DESD	3699 1100 102	1	0,47
		ws/kl	PA+glass(toughened safety glass)	IP 54 for DES, DESD	3699 1100 101	1	0,47
<i>Mounting</i>							
Insert for panel ceilings	DES -EP 195	vw	St	Module 100/200 for DES, DESD	3699 8300 000	1	1,70
Reinforcing for mineral fibre ceilings	DES -EM 195	me	St	for DES, DESD	3699 8200 000	1	0,91
	DES -EM/6 195	me	St	for DES, DESD	3699 8260 000	1	0,87









# relo

## relo – simply versatile

The relo downlight range is discrete and versatile. As you would expect, it is simply constructed and easy to work with. With its robust die-cast housing and room-side IP44 protection rating, it keeps many options open. The relo can blend in with any ambience thanks to its shape and our selection of sizes. A graceful appearance is achieved through the recessed diffuser panel and the narrow edging. It creates discrete accents in the ceiling.



## Type overview

- ▶ RDES-0 Diffuser, opal direct wide distribution

# relo LED



LED IP 44

**Mounting:**

- Ceiling recessed

**Housing:**

- Die-cast aluminium
- Suitable for ceiling system: cut-out ceilings

**Lighting technology RDES-O:**

- Diffuser, opal; Plastic
- Lighting characteristic direct wide distribution

**Lamp:**

- LED 50000h L70/B10
- CRI ≥ 80 / 4000K or CRI ≥ 80 / 3000K

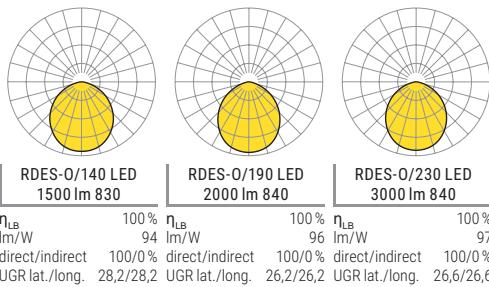
**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

**Miscellaneous:**

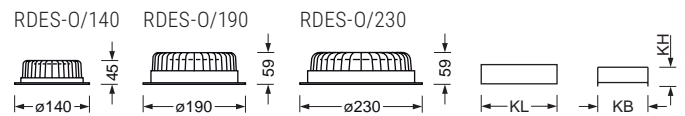
- Connection cable, 1.0 m, 2 x 0.75 mm<sup>2</sup> with wire end ferrules resp. 5-pin plug-in contact

relo-RDES-O/230 LED



**Dimensions**

Type	Versions	DxH	T	KL	KB	KH	DA	Et	DS min/max
RDES-O/140	LED	140 x 45	45	145	43	30	125	95	10 - 20
RDES-O/190	LED	190 x 59	59	145	43	30	175	110	10 - 20
RDES-O/230	LED	230 x 59	59	145	43	30	215	110	10 - 20



**Products**

Type	Versions	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, opal direct wide distribution</i>							
relo-RDES-O/140	LED 1500lm 830	16	ws	ED	140 x 45	3767 1114 140	0,49
	LED 1500lm 840	16	ws	ED	140 x 45	3767 1104 140	0,49
relo-RDES-O/190	LED 2000lm 830	21	ws	ED	190 x 59	3767 2114 140	0,98
	DALI			190 x 59	3767 2116 640	0,98	
	LED 2000lm 840	21	ws	ED	190 x 59	3767 2104 140	0,98
	DALI			190 x 59	3767 2106 640	0,98	
relo-RDES-O/230	LED 3000lm 830	31	ws	ED	230 x 59	3767 3114 140	1,30
	DALI			230 x 59	3767 3116 640	1,30	
	LED 3000lm 840	31	ws	ED	230 x 59	3767 3104 140	1,30
	LED 840			31	ws	DALI	230 x 59









# loda

## loda – harmony in shape and light

Downlights such as loda are integrated unobtrusively for basic lighting in ceiling systems of rooms with completely different functions. The appearance of loda is focused here almost exclusively on the harmonic light effect, thanks to the narrow enclosure ring and the opal white pane. A robust design and high-quality LED and driver ensure a long service life without maintenance. In addition with loda, you obtain a LED light system for your harmonic lighting that is ready for connection.



## Type overview

- ▶ LDESO Diffuser, opal direct wide distribution



# Ioda LED



LED IP 44

**Mounting:**

- Ceiling recessed

**Housing:**

- Die-cast aluminium
- Suitable for ceiling system: cut-out ceilings

**Lighting technology LDES0:**

- Diffuser, opal; Plastic
- Lighting characteristic direct wide distribution

**Lamp:**

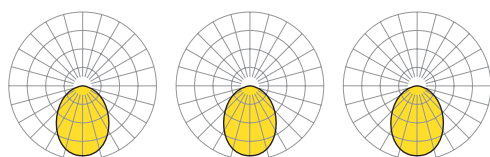
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K or CRI ≥ 80 / 3000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

**Miscellaneous:**

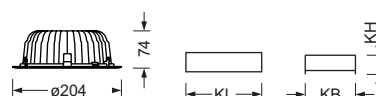
- Connection cable, 1.0 m, 2x0.75 mm<sup>2</sup>



LDES0 LED 2600 lm 840		LDES0 LED 2200 lm 830		LDES0 LED 1400 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	106	lm/W	88	lm/W	124
direct/indirect	100/0%	direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	28,2/28,2	UGR lat./long.	27,5/27,5	UGR lat./long.	26,1/26,1

**Dimensions**

Type	Versions	DxH	T	KL	KB	KH	DA	Et	DS min/max
LDES0	LED	204 x 74	74	240	30	21	190	105	10 - 20



**Products**

Type	Versions	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, opal direct wide distribution</i>							
Ioda-LDES0	LED 1200lm 830	12	ws	ED	204 x 74	3767 0214 140	1,10
	LED 1400lm 840	12	ws	ED	204 x 74	3767 0204 140	1,10
	LED 2200lm 830	25	ws	ED	204 x 74	3767 0114 140	1,10
	LED 2600lm 840	25	ws	ED	204 x 74	3767 0104 140	1,10







# rotara

## rotara – create a great atmosphere in showrooms

Which buying motives are to be addressed when it comes to your showroom lighting is best left to the individual taste. However, it is important that the dynamic system of customer guidance is supported decisively through lighting.

With rotara series spotlights you have all the possibilities to design and stage compositions. With perfect lighting techniques and light colours the desired visual aesthetic is conveyed in the product presentation. With high-quality MIRO-SILVER® reflectors and different light colours, the rotara series is a clear pointer through the colourful world of products. As well as proven light quality, the universal adapters for 3-phase rails, safety glass, rotation options of 350° rotatable and 90° tiltable add to the list of the purely practical advantages of the rotara spotlight series. To ensure a long service life, the housing of the lamp and the ballast is thermally decoupled. This makes the spotlights a perfect supplement to the basic lighting in showrooms when the intention is to create moments of surprise.



### Type overview

- ▶ ROET Round cut-out ceiling
- ▶ ROEQT Square cut-out ceiling
- ▶ ROE./144 Reflector, segmented, matt
- ▶ ROE./160 Reflector, faceted, highly specular
- ▶ ROT./100 Reflector, segmented, matt
- ▶ ROT./170 Reflector, faceted, highly specular

# rotara LED

LED A+ 1500 CE IP 20

**Mounting:**

- Ceiling recessed

**Housing:**

- Die-cast aluminium, powder-coated, die-cast aluminium heat sink
- Suitable for ceiling system: cut-out ceilings

**Lighting technology ROEQT/144:**

- Reflector, segmented, matt; aluminium
- Lighting characteristic direct narrow distribution suited for VDU workstations, 65° < 1500 cd/m<sup>2</sup>

**Lighting technology ROEQT/160:**

- Reflector, faceted, highly specular; aluminium
- Lighting characteristic direct narrow distribution suited for VDU workstations, 65° < 1000 cd/m<sup>2</sup>

**Lamp:**

- LED 50000h L80/B50
- CRI ≥ 80 / 4000K or CRI ≥ 80 / 3000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

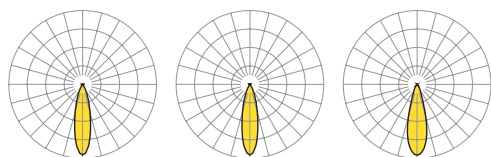
**Miscellaneous:**

- Electrical connection via connection cable 1 m
- High mobility 360° pivoting, with sweep areas of 30° (ROEQ./144) or fully gimballed 2 x 45° (ROEQ / 160)
- Luminaire including LED and drivers

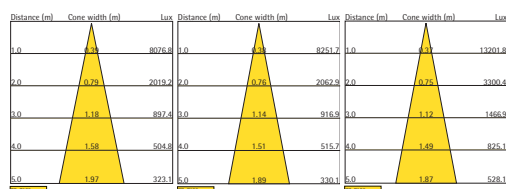
**Accessories:**

- Exchange reflectors available as accessories

rotara-ROEQT/144 LED ... vw



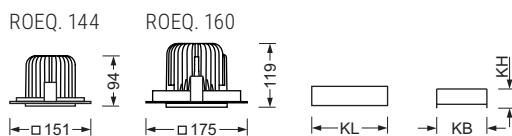
ROEQT/144 LED 2500 lm 830		ROEQT/144 LED 2600 lm 840		ROEQT/160 LED 4300 lm 840	
$\eta_{LB}$	100 %	$\eta_{LB}$	100 %	$\eta_{LB}$	100 %
lm/W	109	lm/W	114	lm/W	121
direct/indirect	100/0 %	direct/indirect	100/0 %	direct/indirect	100/0 %
UGR lat./long.	13,5/13,5	UGR lat./long.	13,7/13,7	UGR lat./long.	12,5/12,5
VDU	65° < 1500cd/m <sup>2</sup>	VDU	65° < 1500cd/m <sup>2</sup>	VDU	65° < 1000cd/m <sup>2</sup>



General view

## Dimensions

Type	Versions	LxBxH	KL	KB	KH	DA <sub>1</sub> xDA <sub>2</sub>	Et	DS min/max
ROEQ./144	LED	151 x 151 x 94	115	53	23	135 x 135	140	10 - 20
ROEQ./160	LED	175 x 175 x 119	170	45	35	155 x 160	160	10 - 20





rotara-ROEQT/160 LED ... vw



## Products

Type	Versions	$\alpha$	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	$\frac{kg}{kg}$
<i>Reflector, segmented, matt direct narrow distribution</i>								
rotara-ROEQT/144	LED 2500lm 830	30	23	vw	ED	151 x 151 x 94	3758 0034 130	0,40
					DALI	151 x 151 x 94	3758 0036 630	0,40
	LED 2600lm 840	30	23	vw	ED	151 x 151 x 94	3758 0044 130	0,40
					DALI	151 x 151 x 94	3758 0046 630	0,40
<i>Reflector, faceted, highly specular direct narrow distribution</i>								
rotara-ROEQT/160	LED 4100lm 830	28	36	vw	ED	175 x 175 x 119	3758 0054 130	1,70
					DALI	175 x 175 x 119	3758 0056 630	1,70
	LED 4300lm 840	28	36	vw	ED	175 x 175 x 119	3758 0064 130	1,70
					DALI	175 x 175 x 119	3758 0066 630	1,70

## Accessories

Type	Colour	Material	Details	Item number	$\frac{kg}{kg}$	
<i>Lighting technology</i>						
Reflector	RO /100/144-LED 40°	aes	Al	Interchangeable reflector, beam angle 40°, for ROT./100 LED, ROE./144	3750 4014 140	1 0,10
	RO /160/170-LED 60°	aes	Al	Interchangeable reflector segmented matt, beam angle 60°, for ROE./160, ROT./170 LED	3750 5014 140	1 0,10



# rotara LED

LED A+ 3000 CE IP 20

## Mounting:

- Ceiling recessed

## Housing:

- Die-cast aluminium, powder-coated, die-cast aluminium heat sink
- Suitable for ceiling system: cut-out ceilings

## Lighting technology ROET/144:

- Reflector, segmented, matt; aluminium
- Lighting characteristic direct narrow distribution suited for VDU workstations,  $65^\circ < 3000 \text{ cd/m}^2$

## Lighting technology ROET/160:

- Reflector, faceted, highly specular; aluminium
- Lighting characteristic direct narrow distribution suited for VDU workstations,  $65^\circ < 1000 \text{ cd/m}^2$

## Lamp:

- LED 50000h L80/B50
- CRI  $\geq 80$  / 4000K or CRI  $\geq 80$  / 3000K

## Switching:

- 1 Control gear
- Electronic driver
- 230V 50Hz

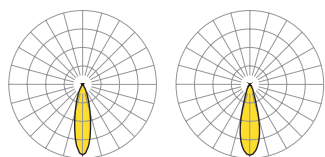
## Miscellaneous:

- Electrical connection via connection cable 1 m
- High mobility of  $360^\circ$  pivoting with sweep areas of  $30^\circ$  (ROE./144) and  $45^\circ$  (ROE./160)
- Luminaire including LED and drivers

## Accessories:

- Exchange reflectors available as accessories

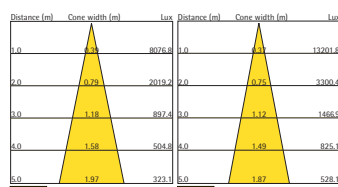
rotara-ROET/144 LED ... vw



ROET/144 LED  
2500 lm 830

ROET/160 LED  
4300 lm 840

$\eta_{LB}$	100 %	$\eta_{LB}$	100 %
lm/W	109	lm/W	121
direct/indirect	100/0 %	direct/indirect	100/0 %
UGR lat./long.	16,5/16,5	UGR lat./long.	16,6/16,6
VDU	$65^\circ < 3000 \text{ cd/m}^2$	VDU	$65^\circ < 1000 \text{ cd/m}^2$



General view

## Dimensions

Type	Versions	DxH	KL	KB	KH	DA	Et	DS min/max
ROE./144	LED	138 x 94	115	53	23	120	140	10 - 20
ROE./160	LED	182 x 119	170	45	35	170	160	10 - 20

ROE. 144

ROE. 160





rotara-ROET/160 LED ... vw



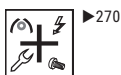
## Products

Type	Versions	$\alpha$	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	$\frac{kg}{kg}$
<i>Reflector, segmented, matt direct narrow distribution</i>								
rotara-ROET/144	LED 2500lm 830	30	23	vw	ED	138 x 94	3757 0034 130	0,40
					DALI	138 x 94	3757 0036 630	0,40
	LED 2600lm 840	30	23	vw	ED	138 x 94	3757 0044 130	0,40
					DALI	138 x 94	3757 0046 630	0,40
<i>Reflector, faceted, highly specular direct narrow distribution</i>								
rotara-ROET/160	LED 4100lm 830	30	36	vw	ED	182 x 119	3757 0054 130	1,70
					DALI	182 x 119	3757 0056 630	1,70
	LED 4300lm 840	30	36	vw	ED	182 x 119	3757 0064 130	1,70
					DALI	182 x 119	3757 0066 630	1,70

## Accessories

Type	Colour	Material	Details	Item number	$\frac{kg}{kg}$	
<i>Lighting technology</i>						
Reflector	RO /100/144-LED 40°	aes	Al	Interchangeable reflector, beam angle 40°, for ROT./100 LED, ROE./144	3750 4014 140	1 0,10
	RO /160/170-LED 60°	aes	Al	Interchangeable reflector segmented matt, beam angle 60°, for ROE./160, ROT./170 LED	3750 5014 140	1 0,10

# rotara LED



LED A+ 3000 CE IP 20

**Mounting:**

- 3-phase track

**Housing:**

- Spotlight unit made of die-cast aluminium, powder-coated

**Lighting technology ROTT/100:**

- Reflector, segmented, matt; aluminium
- Lighting characteristic direct narrow distribution suited for VDU workstations, 65° < 3000 cd/m<sup>2</sup>

**Lighting technology ROTT/170:**

- Reflector, faceted, highly specular; aluminium
- Lighting characteristic direct narrow distribution suited for VDU workstations, 65° < 1000 cd/m<sup>2</sup>

**Lamp:**

- LED 50000h L80/B50
- CRI ≥ 80 / 4000K or CRI ≥ 80 / 3000K

**Switching:**

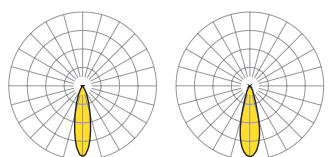
- 1 Control gear
- Electronic driver
- 230V 50Hz

**Miscellaneous:**

- Head 350° rotatable and 90° swivable
- Luminaire including LED and driver

**Accessories:**

- Exchange reflectors available as accessories



**ROTT/100 LED**  
2500 lm 830

**ROTT/170 LED**  
4300 lm 840

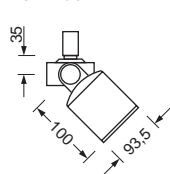
$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	109	lm/W	121
direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	16,6/16,6	UGR lat./long.	16,8/16,8
VDU	65° < 3000cd/m <sup>2</sup>	VDU	65° < 1000cd/m <sup>2</sup>

Distance (m)	Cone width (m)	Lux	Distance (m)	Cone width (m)	Lux
1,0	0,39	8311,6	1,0	0,33	13083,2
2,0	0,79	2027,8	2,0	0,75	3320,8
3,0	1,18	901,3	3,0	1,12	1453,2
4,0	1,58	507,0	4,0	1,49	817,2
5,0	1,97	324,5	5,0	1,87	523,3

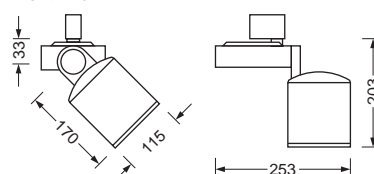
## Dimensions

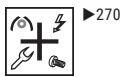
Type	Versions	LxBxH/DxH	KL	KB	KH
ROT./100	LED	213 x 173 x 93,5 x 175	145	90	55
ROT./170	LED	253 x 220 x 115 x 203	155	120	60

ROT. 100



ROT. 170





▶270

rotara-ROTT/170 LED ... sg



## Products

Type	Versions	$\alpha$	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	$\frac{kg}{kg}$
<i>Reflector, segmented, matt direct narrow distribution</i>								
rotara-ROTT/100	LED 2500lm 830	30	23	vw	ED	213 x 173 x 93,5 x 175	3755 0014 130	1,15
				sg	ED	213 x 173 x 93,5 x 175	3755 0014 135	1,15
	LED 2600lm 840	30	23	vw	ED	213 x 173 x 93,5 x 175	3755 0024 130	1,15
				sg	ED	213 x 173 x 93,5 x 175	3755 0024 135	1,15
<i>Reflector, faceted, highly specular direct narrow distribution</i>								
rotara-ROTT/170	LED 4100lm 830	30	36	vw	ED	253 x 220 x 115 x 203	3755 0074 130	1,50
					DALI	253 x 220 x 115 x 203	3755 0076 630	1,50
				sg	ED	253 x 220 x 115 x 203	3755 0074 135	1,50
					DALI	253 x 220 x 115 x 203	3755 0076 635	1,50
	LED 4300lm 840	30	36	vw	ED	253 x 220 x 115 x 203	3755 0084 130	1,50
					DALI	253 x 220 x 115 x 203	3755 0086 630	1,50
				sg	ED	253 x 220 x 115 x 203	3755 0084 135	1,50
					DALI	253 x 220 x 115 x 203	3755 0086 635	1,50

## Accessories

Type	Colour	Material	Details	Item number	$\frac{kg}{kg}$	
<i>Lighting technology</i>						
Reflector	RO /100/144-LED 40°	aes	Al	Interchangeable reflector, beam angle 40°, for ROT./100 LED, ROE./144	3750 4014 140	1 0,10
	RO /160/170-LED 60°	aes	Al	Interchangeable reflector segmented matt, beam angle 60°, for ROE./160, ROT./170 LED	3750 5014 140	1 0,10

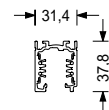


# Accessories 3 phase track DPSN + DALI



## Phase track IP 20

Aluminium extruding press profile in white (RAL 9010) or aluminium natural anodized, rail can be shortened to any length. Voltage 230V/400 16 A + 2 control cable DALI

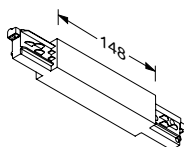
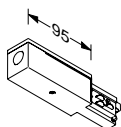


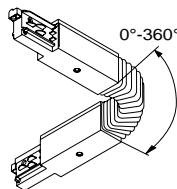
### Products

Type	Colour	Details	Item number	kg	1
DPSN-1000	aen	3~, max. 16A, +DALI, 7-pole, L=1000mm	3764 4100 105	1,10	1
	ws	3~, max. 16A, +DALI, 7-pole, L=1000mm	3764 4100 100	1,10	1
DPSN-2000	aen	3~, max. 16A, +DALI, 7-pole, L=2000mm	3764 4200 105	2,10	1
	ws	3~, max. 16A, +DALI, 7-pole, L=2000mm	3764 4200 100	2,10	1
DPSN-3000	aen	3~, max. 16A, +DALI, 7-pole, L=3000mm	3764 4300 105	3,40	1
	ws	3~, max. 16A, +DALI, 7-pole, L=3000mm	3764 4300 100	3,40	1
DPSN-4000	aen	3~, max. 16A, +DALI, 7-pole, L=4000mm	3764 4400 105	4,50	1
	ws	3~, max. 16A, +DALI, 7-pole, L=4000mm	3764 4400 100	4,50	1

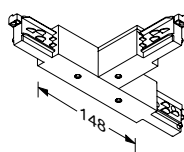
### Accessories

Type	Colour	Material	Details	Item number	kg	1
DPSN-ESL	sw	PC	Power supply for DPSN, 7-pole, left	3764 4002 104	0,10	1
	ws	PC	Power supply for DPSN, 7-pole, left	3764 4002 100	0,10	1
DPSN-ESR	sw	PC	Power supply for DPSN, 7-pole, right	3764 4001 104	0,10	1
	ws	PC	Power supply for DPSN, 7-pole, right	3764 4001 100	0,10	1
DPSN-ESM	sw	PC	Power supply for DPSN, 7-pole, center	3764 4003 104	0,19	1
	ws	PC	Power supply for DPSN, 7-pole, center	3764 4003 100	0,19	1
DPSN-KE	sw	PC	Rail connector for DPSN, 7-pole, electrical	3764 4004 104	0,05	1
	ws	PC	Rail connector for DPSN, 7-pole, electrical	3764 4004 100	0,05	1
DPSN-KM	sw	PC	Rail connector for DPSN, 7-pole, mechanical	3764 4005 104	0,05	1
	ws	PC	Rail connector for DPSN, 7-pole, mechanical	3764 4005 100	0,05	1

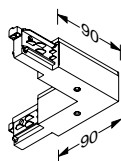




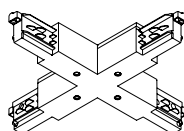
Type	Colour	Material	Details	Item number	kg	1
DPSN-KF	sw	PC	Multiflex connector for DPSN, 0°-360°, 7-pole, horizontal and vertical	3764 4006 104	0,24	1
	ws	PC	Multiflex connector for DPSN, 0°-360°, 7-pole, horizontal and vertical	3764 4006 100	0,24	1



DPSN-KTIL	sw	PC	Rail connector for DPSN, 7-pole, left inside	3764 4018 104	0,29	1
	ws	PC	Rail connector for DPSN, 7-pole, left inside	3764 4018 100	0,29	1
DPSN-KTIR	sw	PC	Rail connector for DPSN, 7-pole, right inside	3764 4015 104	0,29	1
	ws	PC	Rail connector for DPSN, 7-pole, right inside	3764 4015 100	0,29	1



DPSN-KWA	sw	PC	Rail connector for DPSN, 7-pole, left	3764 4017 104	0,19	1
	ws	PC	Rail connector for DPSN, 7-pole, left	3764 4017 100	0,19	1
DPSN-KWI	sw	PC	Rail connector for DPSN, 7-pole, right	3764 4014 104	0,19	1
	ws	PC	Rail connector for DPSN, 7-pole, right	3764 4014 100	0,19	1



DPSN-KX	sw	PC	Rail connector for DPSN, 7-pole	3764 4019 104	0,38	1
	ws	PC	Rail connector for DPSN, 7-pole	3764 4019 100	0,38	1





DPSN-ADA	ws	PC	DPSN-DALI-adapter, 5-pole	3764 4022 100	0,06	1
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DPSN-AET	ws	PC	DPSN-ET-adapter, 3-pole	3764 4023 100	0,04	1
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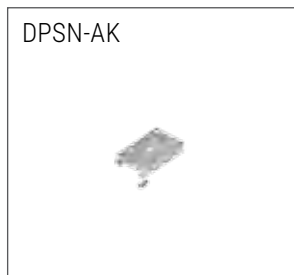
# Accessories 3 phase track DPSN + DALI



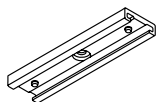
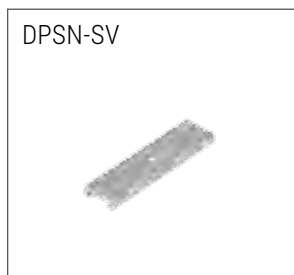
Type	Colour	Material	Details	Item number		
DPSN-EK	sw	Polymer	End cap for DPSN	3764 4007 104	0,01	1
DPSN-EK	ws	Polymer	End cap for DPSN	3764 4007 100	0,01	1



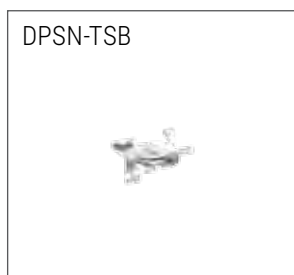
DPSN-DB	sg	Al	Ceiling mounting for DPSN	3764 4008 105	0,02	1
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DPSN-AK	sg	Al	Suspension clamp for DPSN	3764 4011 105	0,02	1
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DPSN-SV	sg	Al	Rail connector for DPSN	3764 4012 105	0,03	1
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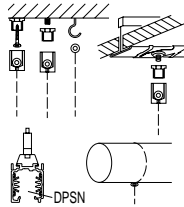
DPSN-TSB	ws	Al	Mounting rail attachment for DPSN	3764 4020 100	0,01	1
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DPSN-DH	sg	St	Ceiling hook for DPSN	3764 4021 105	0,01	1
DPSN-DH	ws	St	Ceiling hook for DPSN	3764 4021 100	0,01	1



DPSN-CS



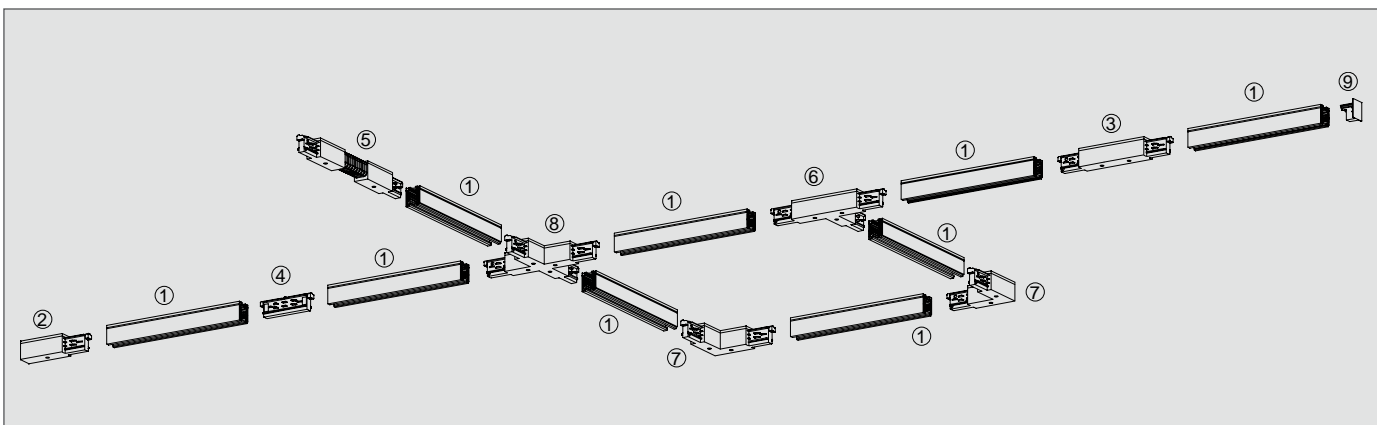
Type	Colour	Material	Details	Item number	kg	1
DPSN-CS	sg	Mix	Wire suspension for DPS, up to 15kg, L=100mm-5200mm	3764 4009 115	0,04	1



DPSN-LBW

DPSN-LBW	sw	Steel	Conductor cutting tool for DPSN	3764 4010 100	0,10	1
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- ① Phase track DPSN
- ② Power supply DPSN-ESL/ESR
- ③ Center power supply DPSN-ESM
- ④ Rail connector electrical DPSN-KE
- ⑤ Multiflex connector DPSN-KF
- ⑥ Rail connector DPSN-KTIL/KTIR
- ⑦ Rail connector DPSN-KWA/KWI
- ⑧ Rail connector DPSN-KX
- ⑨ End cap DPSN-EK







## from other chapters



Standing and  
wall-mounted luminaires

smile

▶ 240



MLS

▶ 244



Damp-proof luminaires

PFL

▶ 482



LED

# Light strips and furniture luminaires



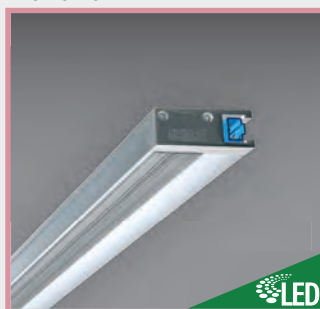
## ilia



### ▶277

▶278 ILG LED

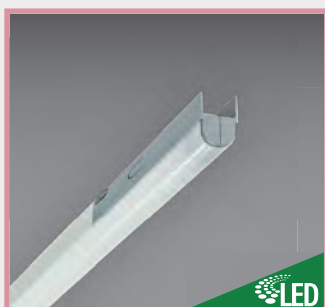
## vakant



### ▶281

▶282 VKFA LED  
▶282 VKG LED

## MLF



### ▶287

▶288 MLF LED  
▶290 MLF T5

## IL



### ▶293

▶294 ILF T5  
▶294 ILF T8  
▶294 ILF T8-1m





# ilia

## ilia – functional LED light in a new form

Light strips and furniture luminaires such as „ilia“ solve their tasks convincingly in a functional environment when they enable optimal acting. Furthermore, easy placement, durability and timeless design for the range of applications of „ilia“ are important criteria. Therefore, emphasis was placed on flexibility for connection variants and installation. To make this possible quickly, we have continued the practical standards of our families of luminaires. We also did not neglect the economic aspects for the „ilia“.



### Type overview

- ▶ ILG Diffuser, opal direct diffuse distribution





LED A+ 850°C M/M CE IP 20

**Mounting:**

- Ceiling surface
- Suspended
- Wall mounting
- Mounting on furniture
- Mounting in furniture

**Housing:**

- Steel sheet

**Lighting technology ILG:**

- Diffuser, opal; PC plastic
- Lighting characteristic direct diffuse distribution

**Lamp:**

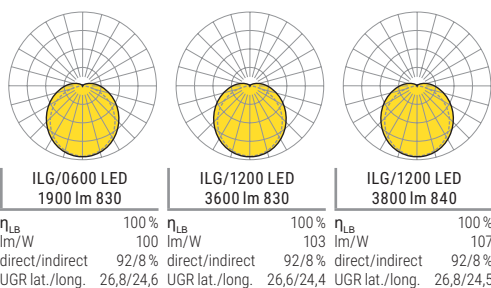
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K or CRI ≥ 80 / 3000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

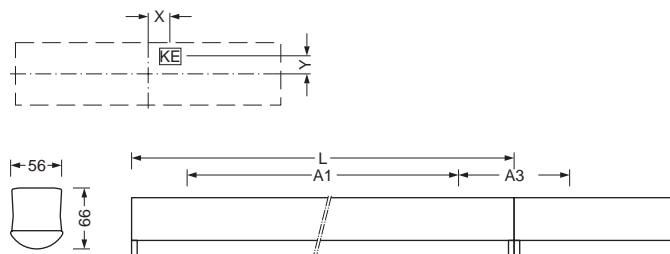
**Accessories:**

- With suspended mounting, chain to be ordered separately, or steel rope to be provided by the customer.



**Dimensions**

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
ILG/0600	LED	580 x 56 x 66	425	155	83 / 0
ILG/1200	LED	1140 x 56 x 66	700	440	0 / 0
ILG/1500	LED	1420 x 56 x 66	1000	420	0 / 0



**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, opal direct diffuse distribution</i>							
ilia-ILG/0600	LED 1900lm 830	19	vw	ED	580 x 56 x 66	1617 1014 100	0,95
	LED 2000lm 840	19	vw	ED	580 x 56 x 66	1617 1024 100	0,95
ilia-ILG/1200	LED 3600lm 830	35	vw	ED	1140 x 56 x 66	1617 2014 100	1,64
	LED 3800lm 840	35	vw	ED	1140 x 56 x 66	1617 2024 100	1,64
ilia-ILG/1500	LED 4600lm 830	48	vw	ED	1420 x 56 x 66	1617 5014 100	2,06
	LED 4800lm 840	48	vw	ED	1420 x 56 x 66	1617 5024 100	2,06

**Accessories**

Type	Colour	Material	Details	Item number	kg
<i>Mounting</i>					
Chain suspension	KAH	ws	PA M6 for PFL, ILG 1200/1500	5910 2000 100	2 0,10







# vakant



## vakant – precise, in a targeted and effective manner

If you want to lighten the ceiling with a cove luminaire or lighten wall or shelf surfaces equally from a small distance, there is only one solution – vakant! vakant is designed to accomplish the most varied of tasks. Its success is based on two light colours, connected with different light technologies. A well-thought-out installation system offers further possibilities. The plug-in connection system ‚Flexilink‘ has found its place with compact dimensions. Efficient storage of power cables not only provides a necessary balance in the run length of the luminaires, but also easily replicates curves and corners of the cove luminaire. Thus, up to 20 m can be installed with only one power feed. Effective LED-modules, luminaires in various lengths and mounting clips equip ‚vakant‘ for its various tasks.



### Type overview

- ▶ VKFA Fresnel lens direct asymmetrical distribution
- ▶ VKG Diffuser, frosted direct diffuse distribution



# vakant LED



LED A+ A  $\diamond$   $\nabla$   $\nabla$   $\nabla$   $\nabla$   $\nabla$   $\nabla$   $\nabla$   $\nabla$   $\nabla$   $\nabla$   $\nabla$   $\nabla$   $\nabla$   $\nabla$   $\nabla$   $\nabla$  CE IP 20

## Mounting:

- Ceiling surface
- Suspended
- Wall mounting
- Mounting on furniture
- Mounting in furniture

## Housing:

- Natural anodised extruded aluminium profile, end faces made of plastic

## Lighting technology VKFA:

- Fresnel lens; PMMA plastic
- Lighting characteristic direct asymmetrical distribution

## Lighting technology VKG:

- Diffuser, frosted; PMMA plastic
- Lighting characteristic direct diffuse distribution

## Lamp:

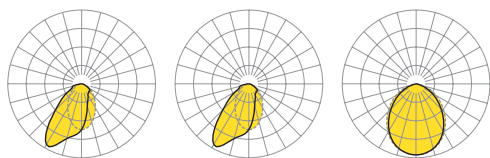
- LED 50000h L80/B10
- CRI  $\geq$  80 / 4000K or CRI  $\geq$  80 / 3000K

## Switching:

- Various switching modes available
- 24V 0Hz

## Accessories:

- 2-pole secondary connection cable for LED driver VK-AL, 24 V LED-driver as well as the mounting accessories, twist-lock catch bracket VK-DR, mounting plate VK-MP and mounting bracket 20° VK-MW to be ordered separately.



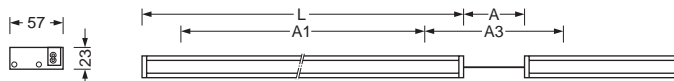
VKFA/1200-1 LED		VKFA/1500-1 LED		VKG/1200-1 LED	
1800 lm 840		2000 lm 830		1700 lm 830	
$\eta_{LB}$	100%	$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	83	lm/W	73	lm/W	78
direct/indirect	100/0%	direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	22,2/24,6	UGR lat./long.	21,7/24,2	UGR lat./long.	24,3/26,1



The Flexlink plug system with built-in cable reserve enables corner and curved layouts as well as allowing length adjustment for cove lighting.

## Dimensions

Type	Versions	LxBxH/DxH	A1	A3	A
VK./0300-1	LED	290 x 23 x 57	150	140 mm + A	0 - 200 mm
VK./0600-1	LED	570 x 23 x 57	370	200 mm + A	0 - 200 mm
VK./0900-1	LED	850 x 23 x 57	650	200 mm + A	0 - 200 mm
VK./1200-1	LED	1130 x 23 x 57	730	400 mm + A	0 - 200 mm
VK./1500-1	LED	1410 x 23 x 57	810	600 mm + A	0 - 200 mm



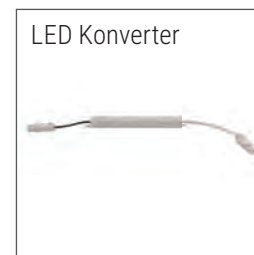


vakant-VKG LED

**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Fresnel lens direct asymmetrical distribution</i>							
vakant-VKFA/0300-1	LED 400lm 830	6	aen	-	290 x 23 x 57	1670 0303 195	0,33
	LED 500lm 840	6	aen	-	290 x 23 x 57	1670 0304 195	0,33
vakant-VKFA/0600-1	LED 800lm 830	11	aen	-	570 x 23 x 57	1670 0603 195	0,64
	LED 900lm 840	11	aen	-	570 x 23 x 57	1670 0604 195	0,64
vakant-VKFA/0900-1	LED 1200lm 830	16	aen	-	850 x 23 x 57	1670 0903 195	0,94
	LED 1400lm 840	16	aen	-	850 x 23 x 57	1670 0904 195	0,94
vakant-VKFA/1200-1	LED 1600lm 830	22	aen	-	1130 x 23 x 57	1670 1203 195	1,25
	LED 1800lm 840	22	aen	-	1130 x 23 x 57	1670 1204 195	1,25
vakant-VKFA/1500-1	LED 2000lm 830	28	aen	-	1410 x 23 x 57	1670 1503 195	1,55
	LED 2300lm 840	28	aen	-	1410 x 23 x 57	1670 1504 195	1,55
<i>Diffuser, frosted direct diffuse distribution</i>							
vakant-VKG/0300-1	LED 400lm 830	6	aen	-	290 x 23 x 57	1670 0303 185	0,33
	LED 500lm 840	6	aen	-	290 x 23 x 57	1670 0304 185	0,33
vakant-VKG/0600-1	LED 900lm 830	11	aen	-	570 x 23 x 57	1670 0603 185	0,64
	LED 1000lm 840	11	aen	-	570 x 23 x 57	1670 0604 185	0,64
vakant-VKG/0900-1	LED 1300lm 830	16	aen	-	850 x 23 x 57	1670 0903 185	0,94
	LED 1500lm 840	16	aen	-	850 x 23 x 57	1670 0904 185	0,94
vakant-VKG/1200-1	LED 1700lm 830	22	aen	-	1130 x 23 x 57	1670 1203 185	1,25
	LED 2000lm 840	22	aen	-	1130 x 23 x 57	1670 1204 185	1,25
vakant-VKG/1500-1	LED 2100lm 830	28	aen	-	1410 x 23 x 57	1670 1503 185	1,55
	LED 2500lm 840	28	aen	-	1410 x 23 x 57	1670 1504 185	1,55

# vakant accessories



## Accessories

	Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>							
Connection cable power	VK -AL	ws	Cu	2x1.5mm <sup>2</sup> l=1000mm for vakant	1670 9002 100	1	0,10
Socket/plug power	VK -BT	ws	Polymer	gesis® MINI (f) 2x1.5 mm <sup>2</sup> for vakant	1670 9005 100	5	0,04
	VK -ST	ws	Polymer	gesis® MINI (m) 2x1.5 mm <sup>2</sup> for vakant	1670 9006 100	5	0,04
Driver	LED Konverter 24V/80W	ws	Mix	24V/DC 80W for LED units	8420 9001 100	1	0,85
	LED Konverter 24V/120W	ws	Mix	24V/DC 120W for LED units	8420 9002 100	1	1,10
	LED Konverter 24V/240W	ws	Mix	24V/DC 240W for LED units	8420 9003 100	1	1,50
	LED Konverter 24V/10W	ws	Mix	24V/DC 10W l=150mm (cable) for LED units	8420 8415 100	1	0,07
	LED Konverter 24V/25W	ws	Mix	24V/DC 25W l=1000mm (cable) for LED units	8420 8414 100	1	0,33
Connection cable power	VK -VL 1000	ws	H05VV-F	2x1.5mm <sup>2</sup> , 24V, l=1000mm for vakant	1670 9004 100	1	0,06
<i>Mounting</i>							
Mounting clip	VK -DR	me	Inox	Twist-lock catch 90° vertical for vakant	1670 9003 100	2	0,02
	VK -MP	me	Inox	Mounting plate 0° horizontal for vakant	1670 9001 100	2	0,03
	VK -MW	me	Inox	Mounting bracket 20° horizontal for vakant	1670 9000 100	2	0,04









# MLF



## MLF – design light run systems for professional applications

Light bars and furniture luminaires provide direct lighting and are visibly fitted for arrangements such as bands, cables, or graphical samples or the first choice for indirect light effects in furniture or with cove luminaires and screens. The MLF is designed as a visible system design luminaire. This is reflected in a high-quality housing made of naturally anodised aluminium as in its face ends available in the accessories. Thanks to many small ideas which make installation especially simple or extend the area of application with intelligent light technology, the luminaire is a real multi-talent.



### Type overview

- ▶ MLF Diffuser, opal direct diffuse distribution

# MLF LED



LED A+ CE IP 20

**Mounting:**

- Ceiling surface
- Mounting on furniture
- Installation in furniture

**Housing:**

- Aluminium, naturally anodised with plastic end faces

**Lighting technology MLF:**

- Diffuser, opal; PC plastic
- Lighting characteristic direct diffuse distribution

**Lamp:**

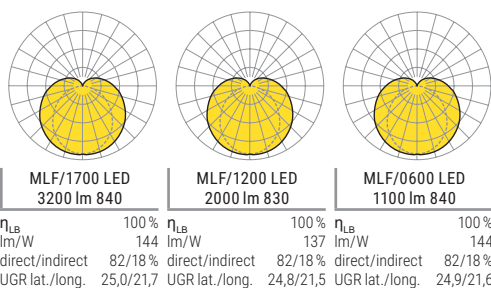
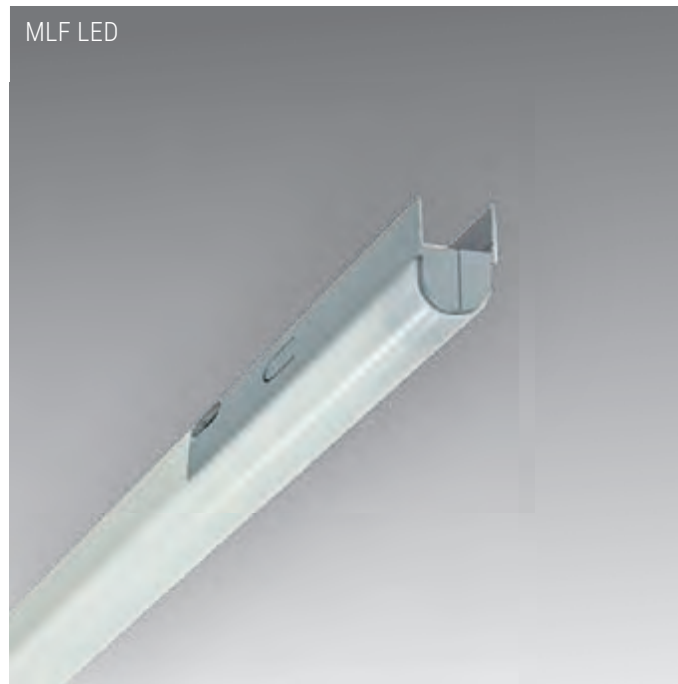
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K or CRI ≥ 80 / 3000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz

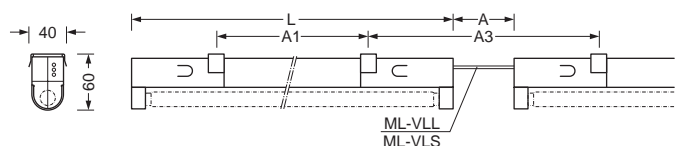
**Accessories:**

- Please order connection cable with ML-AL wire end sleeves and ML-VL plug connection separately.



**Dimensions**

Type	Versions	LxBxH/DxH	A1	A3	A
MLF/0600 LED		580 x 40 x 60	395	185 mm + A 5 mm (+ML-VL.)	
MLF/1200 LED		1140 x 40 x 60	995	185 mm + A 5 mm (+ML-VL.)	
MLF/1700 LED		1700 x 40 x 60	1515	185 mm + A 5 mm (+ML-VL.)	



**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Diffuser, opal direct diffuse distribution</i>							
MLF/0600	LED 1000lm 830	7	aen	ED	580 x 40 x 60	1636 0614 100	0,69
		7	aen	DALI	580 x 40 x 60	1636 0616 600	0,69
	LED 1100lm 840	7	aen	ED	580 x 40 x 60	1636 0624 100	0,69
		7	aen	DALI	580 x 40 x 60	1636 0626 600	0,69
MLF/1200	LED 2000lm 830	15	aen	ED	1140 x 40 x 60	1636 1214 100	1,20
		15	aen	DALI	1140 x 40 x 60	1636 1216 600	1,20
	LED 2100lm 840	15	aen	ED	1140 x 40 x 60	1636 1224 100	1,20
		15	aen	DALI	1140 x 40 x 60	1636 1226 600	1,20
MLF/1700	LED 3100lm 830	22	aen	ED	1700 x 40 x 60	1636 1714 100	1,40
		22	aen	DALI	1700 x 40 x 60	1636 1716 600	1,40
	LED 3200lm 840	22	aen	ED	1700 x 40 x 60	1636 1724 100	1,40
		22	aen	DALI	1700 x 40 x 60	1636 1726 600	1,40





# MLF T5



**Mounting:**

- Ceiling surface
- Mounting on furniture
- Installation in furniture

**Housing:**

- Aluminium, naturally anodised with plastic end faces and white sheet steel cover

**Lighting technology MLF:**

- Open distribution
- Lighting characteristic direct/indirect general diffuse

**Lamp:**

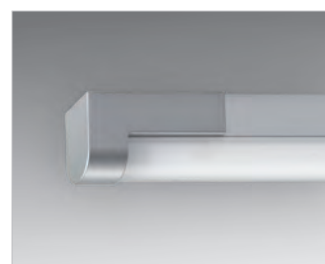
- For fitting with lamp(s) T5

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Accessories:**

- Please order connection cable with ML-AL wire end sleeves and ML-VL plug as well as optical accessories separately.



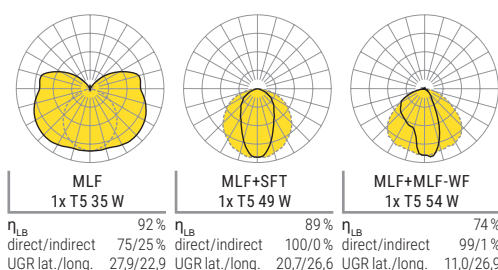
The luminaire achieves protection class IP40 in combination with the end cap MLF-S and the diffuser MLF-DF, and is visually enhanced by the exposed insert.



If the MLF is fitted with the involute reflector MLF-WF, the luminaire is transformed into a wallwasher.

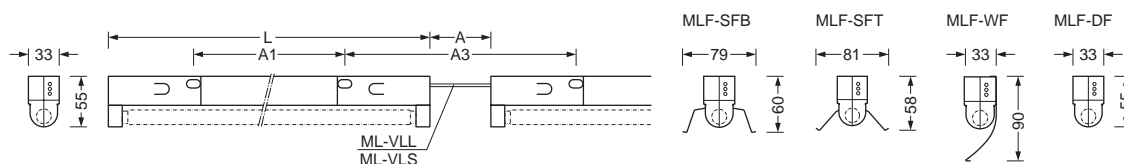


An efficient luminaire system can be produced from the light strip in combination with the narrow-beam specular reflector MLF-SFT or the wide-beam reflector MLF-SFB.



## Dimensions

Type	Versions	LxBxH/DxH	A1	A3	A
MLF	T5 1x13W	548 x 33 x 55	365	185 mm + A	5 mm (+ML-VL.)
	T5 1x14, 24 W	580 x 33 x 55	395	185 mm + A	5 mm (+ML-VL.)
	T5 1x21, 39 W	880 x 33 x 55	695	185 mm + A	5 mm (+ML-VL.)
	T5 1x28, 54 W	1180 x 33 x 55	995	185 mm + A	5 mm (+ML-VL.)
	T5 1x35, 49, 80 W	1480 x 33 x 55	1295	185 mm + A	5 mm (+ML-VL.)



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Open distribution direct/indirect general diffuse</i>							
MLF	T5 1x14/24W	16	aen	ECG	580 x 33 x 55	1630 1924 100	0,59
	T5 1x21/39W	23	aen	ECG	880 x 33 x 55	1630 1934 100	0,83
	T5 1x28/54W	58	aen	ECG	1180 x 33 x 55	1630 1944 100	1,05
				ECG DALI	1180 x 33 x 55	1630 1946 600	1,09
	T5 1x35/49W	52	aen	ECG DALI	1480 x 33 x 55	1630 1966 600	1,34
	T5 1x35/49/80W	52	aen	ECG	1480 x 33 x 55	1630 1954 100	1,31
T5 1x13W	15	aen	ECG	548 x 33 x 55	1630 1134 100	0,56	

# MLF accessories



## Accessories

	Type	Colour	Material	Details	Item number		
<i>Lighting technology</i>							
Prismatic diffuser	MLF-DF T5 1/13	tp	PC	for MLF 1/13	1630 9413 100	1	0,05
	MLF-DF T5 1/14/24	tp	PC	for MLF 1/14/24	1630 9492 100	1	0,05
	MLF-DF T5 1/21/39	tp	PC	for MLF 1/21/39	1630 9493 100	1	0,08
	MLF-DF T5 1/28/54	tp	PC	for MLF 1/28/54	1630 9494 100	1	0,10
	MLF-DF T5 1/35/49	tp	PC	for MLF 1/35/49	1630 9495 100	1	0,13
Reflector, wide distribution	MLF-SFB T5 1/28/54	aeh	Al	for MLF 1/28/54	1630 9694 100	1	0,13
	MLF-SFB T5 1/35/49/80	aeh	Al	for MLF 1/35/49/80	1630 9695 100	1	0,16
Reflector, narrow distribution	MLF-SFT T5 1/28/54	aeh	Al	for MLF 1/28/54	1630 9794 100	1	0,13
	MLF-SFT T5 1/35/49/80	aeh	Al	for MLF 1/35/49/80	1630 9795 100	1	0,16
Wallwasher	MLF-WF T5 1/14/24	aeh	Al	for MLF 1/14/24	1630 9592 100	1	0,07
	MLF-WF T5 1/21/39	aeh	Al	for MLF 1/21/39	1630 9593 100	1	0,12
	MLF-WF T5 1/28/54	aeh	Al	for MLF 1/28/54	1630 9594 100	1	0,16
	MLF-WF T5 1/35/49/80	aeh	Al	for MLF 1/35/49/80	1630 9595 100	1	0,20
<i>Design</i>							
Kit-set of end caps	MLF-S	wa	PC	for MLF	1630 9400 100	2	0,03
<i>Electrical technology</i>							
Connection cable power	ML-ALEL	ws	H05VV-F	3x1.5mm <sup>2</sup> l=1500mm for MLF	1630 9020 100	1	0,17
Connection cable control	ML-ALES	ws	H05HH-F	2x0.75mm <sup>2</sup> l=1500mm for MLF dim	1630 9220 100	1	0,09
Socket/plug power	ML-BT L	ws	Polymer	gesis MINI (f) 3x1.5 mm <sup>2</sup> for MLF	1630 9000 100	1	0,01
	ML-ST L	ws	Polymer	gesis MINI (m) 3x1.5 mm <sup>2</sup> for MLF	1630 9011 100	1	0,01
Socket/plug control	ML-BT S	ws	Polymer	gesis MINI (f) 2x1.5 mm <sup>2</sup> for MLF dim	1630 9200 100	1	0,01
	ML-ST S	ws	Polymer	gesis MINI (m) 2x1.5 mm <sup>2</sup> for MLF dim	1630 9211 100	1	0,01
Connection cable power	ML-VLL 0	ws	H05VV-F	3x1.5mm <sup>2</sup> l=0mm for MLF	1630 9100 100	1	0,03
	ML-VLL 200	ws	H05VV-F	3x1.5mm <sup>2</sup> l=200mm for MLF	1630 9102 100	1	0,05
	ML-VLL 500	ws	H05VV-F	3x1.5mm <sup>2</sup> l=500mm for MLF	1630 9105 100	1	0,08
	ML-VLL 1500	ws	H05VV-F	3x1.5mm <sup>2</sup> l=1500mm for MLF	1630 9115 100	1	0,18
Connection cable control	ML-VLS 0	ws	H05HH-F	2x0.75mm <sup>2</sup> l=0mm for MLF dim	1630 9300 100	1	0,02
	ML-VLS 200	ws	H05HH-F	2x0.75mm <sup>2</sup> l=200mm for MLF dim	1630 9302 100	1	0,03
	ML-VLS 500	ws	H05HH-F	2x0.75mm <sup>2</sup> l=500mm for MLF dim	1630 9305 100	1	0,04
	ML-VLS 1500	ws	H05HH-F	2x0.75mm <sup>2</sup> l=1500mm for MLF dim	1630 9315 100	1	0,09





# ILF

## ILF – multifunctional and practical

ILF is a multi-functioned light system which through its variability in models and compatibility to the SDT-System offers a wide spread spectrum of use. The luminaire is designed on fast and practical use so that even complex installations can easily be realized. Assembling aid, as the cable duct being integrated on the top-side; non losable open shut-offs and a three pole terminal in the internal plug contact-techniques – are only a few of the proofed products characteristics that distinguish this luminaire from others. The easy installation is possible without any distance to the sideways due to the practical mounting slide. The possible lighting accessories that can be installed above the turn-locks from the SDT-system make this luminaire in its multifunctional use simply unbeatable.

### Type overview

- ▶ ILF    Direct/indirect general diffuse



# IL T5/T8



**Mounting:**

- Ceiling surface

**Housing:**

- Steel sheet

**Lighting technology ILF:**

- Open distribution
- Lighting characteristic direct/indirect general diffuse

**Lamp:**

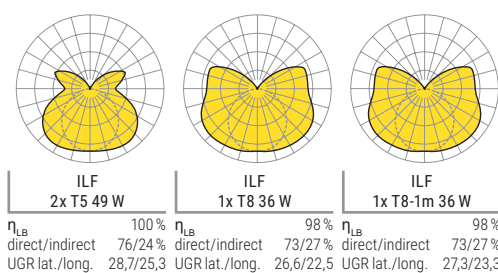
- For fitting with lamp(s) T5, T8 or T8-1m

**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz

**Accessories:**

- For additional optical accessories see chapter quick-fit mounting system.



Thanks to the standardised dimensions and positions of the twist-lock catches, ILF luminaires can be fitted with the lighting components of the SDT system.



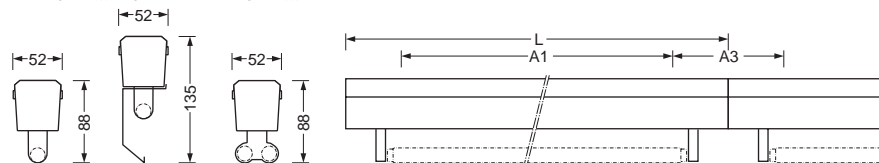
With the SB side cover, the luminaire produces an asymmetrical light distribution which screens the view of the lamp.

## Dimensions

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
ILF	T5 1x28, 54 W	1235 x 52 x 88	700	535	0/0
	T5 1x35, 49, 80 W	1535 x 52 x 88	1000	535	0/0
	T5 2x28, 54 W	1235 x 52 x 88	700	535	0/0
	T5 2x35, 49, 80 W	1535 x 52 x 88	1000	535	0/0
	T8 1x18W	625 x 52 x 88	425	200	0/0
	T8 1x30W	930 x 52 x 88	700	230	0/0
	T8 1x36W	1235 x 52 x 88	700	535	0/0
	T8 1x58W	1535 x 52 x 88	1000	535	0/0
	T8 2x18W	625 x 101 x 92	425	200	0/0
	T8 2x36W	1235 x 101 x 92	700	535	0/0
	T8 2x58W	1535 x 101 x 92	1000	535	0/0
	T8-1m 1x36W	1005 x 52 x 88	700	305	0/0

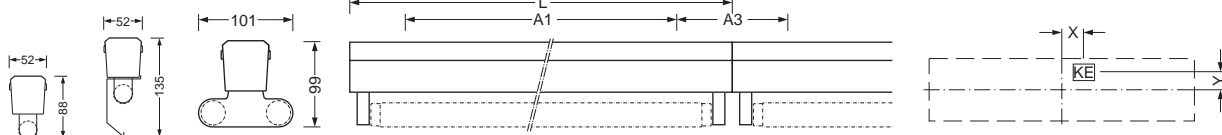
ILF T5 1x ... + SB

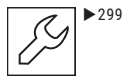
ILF T5 2x ...



ILF T8 1x ... + SB

ILF T8 2x ...





## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number		
<i>Open distribution direct/indirect general diffuse</i>								
ILF	T5 1x28/54W	58	vw	ECG	1235 x 52 x 88	1060 1944 100	1,45	
	T5 1x35/49/80W	52	vw	ECG	1535 x 52 x 88	1060 1954 100	1,78	
	T5 2x28/54W	116	vw	ECG	1235 x 52 x 88	1060 2944 100	1,78	
	T5 2x35/49W	104	vw	ECG	1535 x 52 x 88	1060 2964 100	1,80	
	T8 1x18W	19	vw	ECG	625 x 52 x 88	1060 1184 100	0,92	
	T8 1x30W	31	vw	ECG	930 x 52 x 88	1060 1304 201	1,30	
	T8 1x36W	36	vw	ECG	1235 x 52 x 88	1060 1364 100	1,45	
	T8 1x58W	55	vw	ECG	1535 x 52 x 88	1060 1584 100	1,78	
					ECG EM pack 1h	1535 x 52 x 88	1060 1584 209	2,37
					ECG EM pack B3	1535 x 52 x 88	1060 1587 700	2,37
	T8 2x18W	38	vw	ECG	625 x 101 x 92	1060 2184 100	1,00	
	T8 2x36W	72	vw	ECG	1235 x 101 x 92	1060 2364 100	1,53	
	T8 2x58W	110	vw	ECG	1535 x 101 x 92	1060 2584 100	1,80	
					ECG EM pack 1h	1535 x 101 x 92	1060 2584 202	2,50
					ECG EM pack B3	1535 x 101 x 92	1060 2587 700	2,50
	T8-1m 1x36W	36	vw	ECG	1005 x 52 x 88	1060 1504 100	1,28	

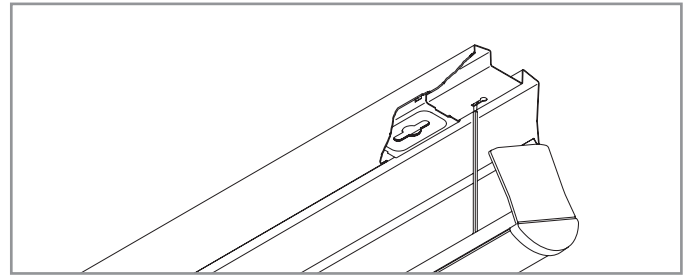
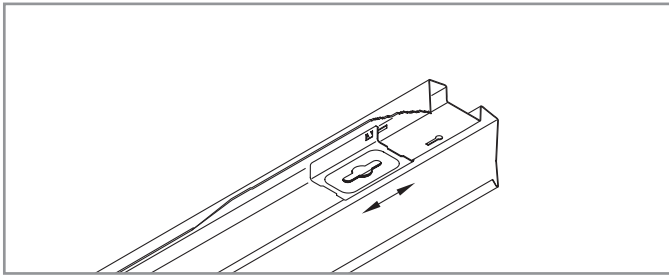
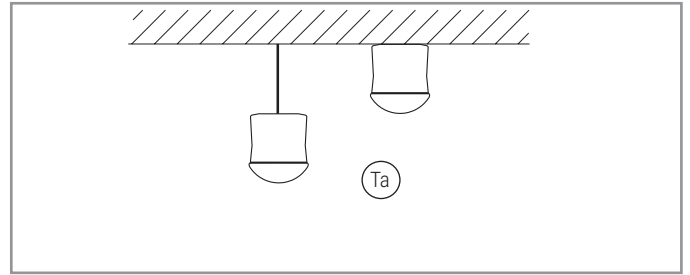
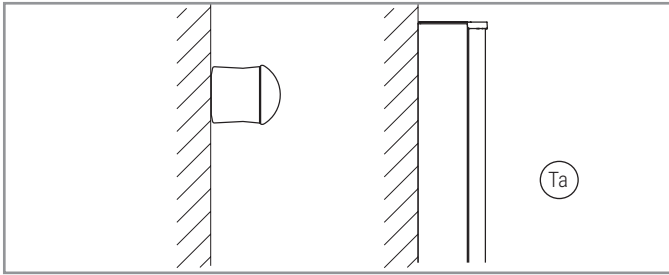
## Accessories

Type	Colour	Material	Details	Item number		
<i>Lighting technology</i>						
Lateral cover	SB T8 1/36	vw	St	for ILF T5 1/28/54 T8 1/36	1871 1360 100	1 0,84
	SB T8 1/58	vw	St	for ILF T5 1/35/49/80 T8 1/58	1871 1580 100	1 0,97
<i>Electrical technology</i>						
Through-wiring cable	FLVA T8 58	ws	H05V2-U	5x1.5mm <sup>2</sup> for ILF	1901 9580 100	1 0,16
<i>Mounting</i>						
Chain suspension	KH	me	St	for ILF, PFP, PFK, PA..., PC...	9482 2277 100	1 0,03
Tubular pendant suspension	RP 50	ws	St+PC	d=16mm, M13, l=500mm for suspended luminaires	9280 9050 100	1 0,25
	RP 80	ws	St+PC	d=16mm, M13, l=800mm for suspended luminaires	9280 9080 100	1 0,33
	RP 100	ws	St+PC	d=16mm, M13, l=1000mm for suspended luminaires	9280 9100 100	1 0,40



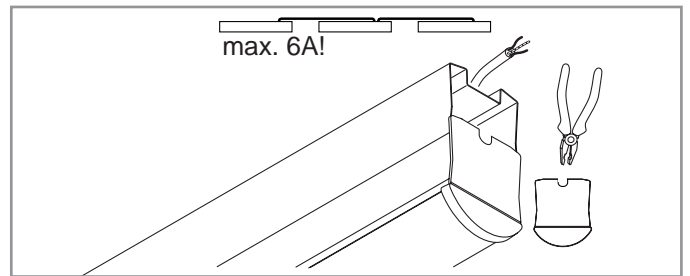
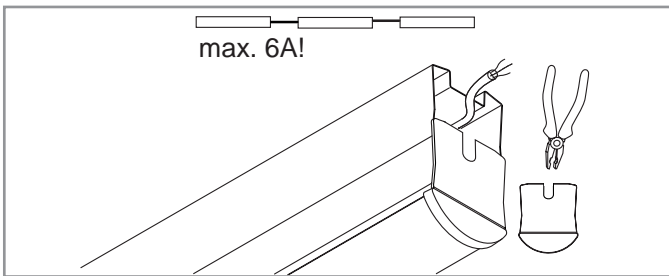
# Mounting note ilia

## ilia



**Fastening sliders:**  
These are an installation aid. If the cover is pressed against the fastening surface via the screws in half way position, the fastening sliders can be moved so that the cover is positioned upon the head of the screws.

**Suspension threads:** allow one man installation.



**Inner cable duct:**  
In inner of cover with pre-punched cable retainers for 5 x 1.5 mm<sup>2</sup> max. 6A through-wiring.

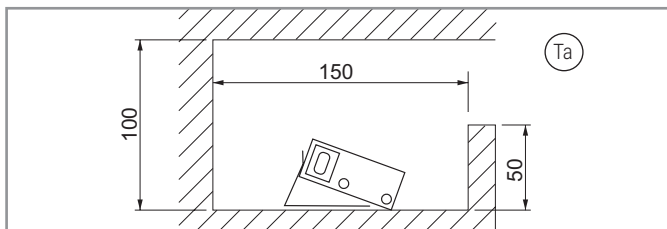
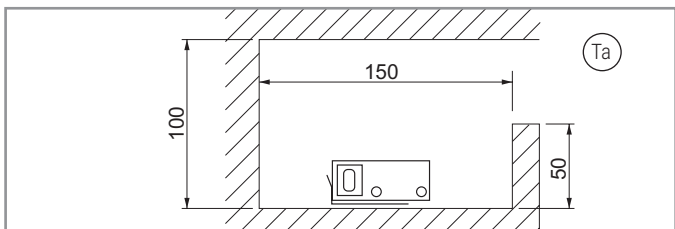
**Outer cable duct:**  
For outer e.g. NYM through-wiring to max. 5 x 1.5 mm<sup>2</sup> upon cover.

**Note:**

\* Ta max. in accordance with DIN-EN 60598 +25°

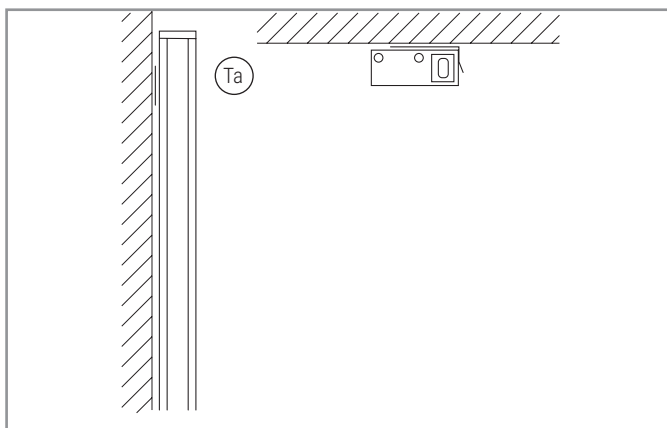
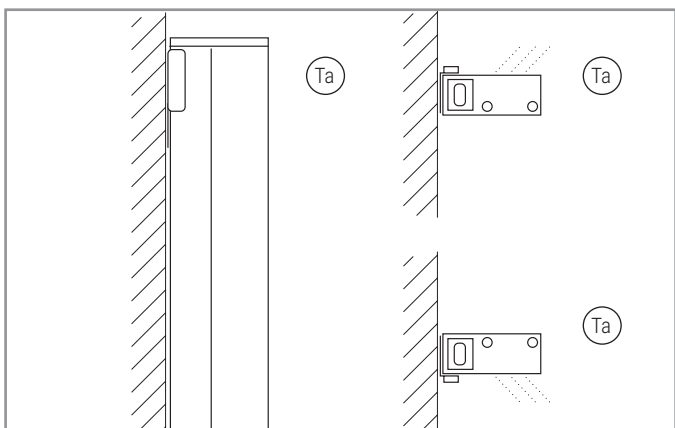
# Mounting note vakant

## vakant



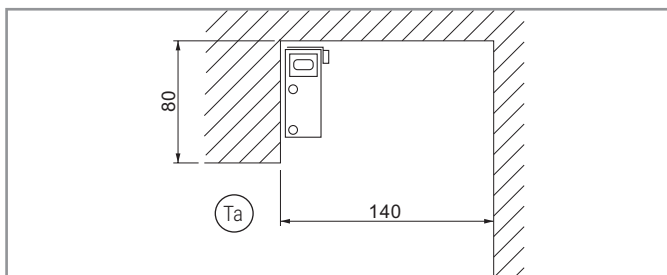
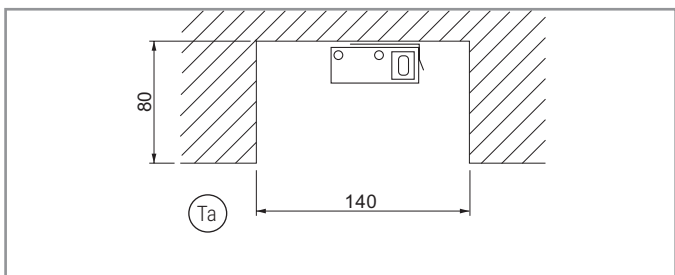
Type + VK-MP	Ta max*
VK /0300	8 W ✓
VK /0600	16 W ✓
VK /0900	24 W ✓
VK /1200	32 W ✓
VK /1500	40 W ✓

Type + VK-WP	Ta max*
VK /0300	8 W ✓
VK /0600	16 W ✓
VK /0900	24 W ✓
VK /1200	32 W ✓
VK /1500	40 W ✓



Type + VK-DR	Ta max*
VK /0300	8 W ✓
VK /0600	16 W ✓
VK /0900	24 W ✓
VK /1200	32 W ✓
VK /1500	40 W ✓

Type + VK-MP	Ta max*
VK /0300	8 W ✓
VK /0600	16 W ✓
VK /0900	24 W ✓
VK /1200	32 W ✓
VK /1500	40 W ✓



Type + VK-MP	Ta max*
VK /0300	8 W ✓
VK /0600	16 W ✓
VK /0900	24 W ✓
VK /1200	32 W ✓
VK /1500	40 W ✓

Type + VK-WP	Ta max*
VK /0300	8 W ✓
VK /0600	16 W ✓
VK /0900	24 W ✓
VK /1200	32 W ✓
VK /1500	40 W ✓

### Note:

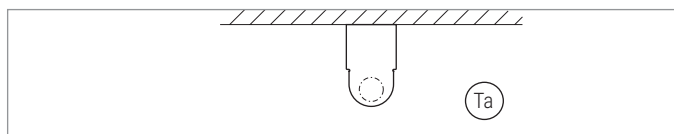
The named maximum ambient temperatures have been measured in laboratory. There are no other hot objects in the concealing surroundings. Continuous wiring maximal 24V/16A/384W.

\* Ta max. in accordance with DIN-EN 60598 +25°

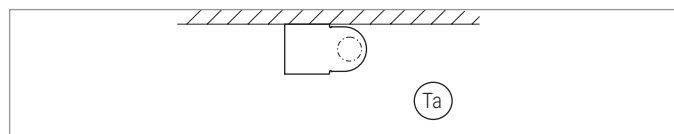


# Mounting note MLF

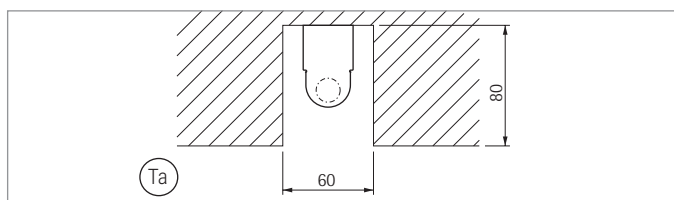
## MLF



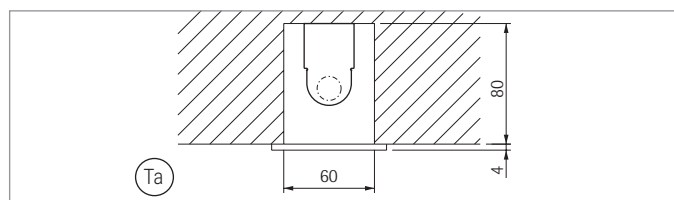
Type	MLF Ta max*	MLF+MLF-DF Ta max*
MLF	1/13 ✓	✓
MLF/MLF-dim	1/14 ✓	✓
MLF/MLF-dim	1/21 ✓	✓
MLF/MLF-dim	1/28 ✓	✓
MLF/MLF-dim	1/35 ✓	✓
MLF/MLF-dim	1/49 ✓	✓
MLF/MLF-dim	1/24 ✓	✓
MLF/MLF-dim	1/39 ✓	✓
MLF/MLF-dim	1/54 ✓	✓
MLF/MLF-dim	1/80 ✓	not permitted



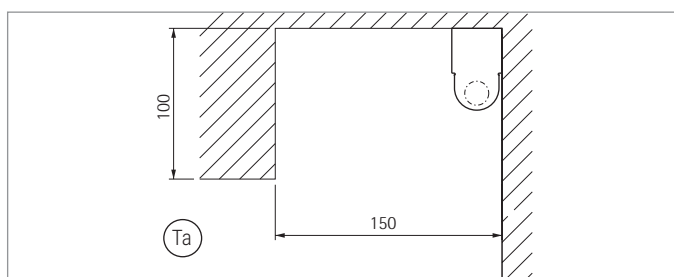
Type	MLF Ta max*	MLF+MLF-DF Ta max*
MLF	1/13 ✓	✓
MLF/MLF-dim	1/14 ✓	✓
MLF/MLF-dim	1/21 ✓	✓
MLF/MLF-dim	1/28 ✓	✓
MLF/MLF-dim	1/35 ✓	✓
MLF/MLF-dim	1/49 ✓	✓
MLF/MLF-dim	1/24 ✓	✓
MLF/MLF-dim	1/39 ✓	✓
MLF/MLF-dim	1/54 ✓	✓
MLF/MLF-dim	1/80 ✓	not permitted



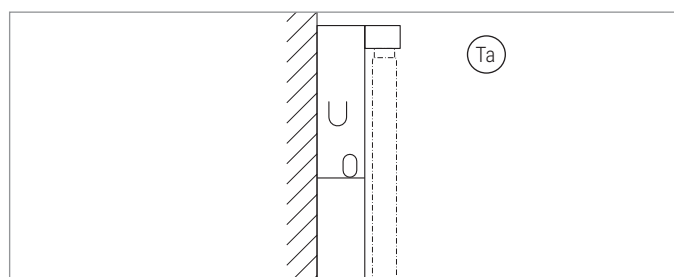
Type	MLF Ta max*	MLF+MLF-DF Ta max*
MLF	1/13 ✓	✓
MLF/MLF-dim	1/14 ✓	✓
MLF/MLF-dim	1/21 ✓	✓
MLF/MLF-dim	1/28 ✓	✓
MLF/MLF-dim	1/35 ✓	✓
MLF/MLF-dim	1/49 ✓	✓
MLF/MLF-dim	1/24 not permitted	not permitted
MLF/MLF-dim	1/39 not permitted	not permitted
MLF/MLF-dim	1/54 not permitted	not permitted
MLF/MLF-dim	1/80 not permitted	not permitted



Type	MLF Ta max*	MLF+MLF-DF Ta max*
MLF	1/13 ✓	not permitted
MLF/MLF-dim	1/14 ✓	not permitted
MLF/MLF-dim	1/21 ✓	not permitted
MLF/MLF-dim	1/28 ✓	not permitted
MLF/MLF-dim	1/35 ✓	not permitted
MLF/MLF-dim	1/49 ✓	not permitted
MLF/MLF-dim	1/24 not permitted	not permitted
MLF/MLF-dim	1/39 not permitted	not permitted
MLF/MLF-dim	1/54 not permitted	not permitted
MLF/MLF-dim	1/80 not permitted	not permitted



Type	MLF Ta max*	MLF+MLF-DF Ta max*
MLF	1/13 ✓	✓
MLF/MLF-dim	1/14 ✓	✓
MLF/MLF-dim	1/21 ✓	✓
MLF/MLF-dim	1/28 ✓	✓
MLF/MLF-dim	1/35 ✓	✓
MLF/MLF-dim	1/49 ✓	✓
MLF/MLF-dim	1/24 ✓	✓
MLF/MLF-dim	1/39 ✓	✓
MLF/MLF-dim	1/54 ✓	✓
MLF/MLF-dim	1/80 not permitted	not permitted



Type	MLF Ta max*	MLF+MLF-DF Ta max*
MLF	1/13 ✓	✓
MLF/MLF-dim	1/14 ✓	✓
MLF/MLF-dim	1/21 ✓	✓
MLF/MLF-dim	1/28 ✓	✓
MLF/MLF-dim	1/35 ✓	✓
MLF/MLF-dim	1/49 ✓	✓
MLF/MLF-dim	1/24 ✓	✓
MLF/MLF-dim	1/39 ✓	✓
MLF/MLF-dim	1/54 ✓	✓
MLF/MLF-dim	1/80 ✓	not permitted

**Note:**

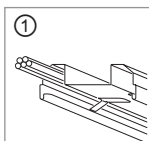
The named maximum ambient temperatures have been measured in laboratory. There are no other hot objects in the concealing surroundings. Continuous wiring maximal 2000W/10A.

\* Ta max. in accordance with DIN-EN 60598 +25°

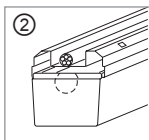
# Mounting note ILF

## ILF

- ① Inner cable duct:  
In inner of cover with pre-punched cable retainers  
for FLVA, NYAW 5 x 1.5 mm<sup>2</sup> through-wiring.

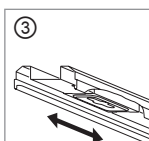


- ② Outer cable duct:  
For outer NYM through-wiring to max. 5 x 1.5 mm<sup>2</sup>  
upon cover.

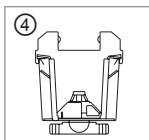


Suspension threads: allow one man installation.

- ③ Fastening sliders:  
These are an installation aid. If the cover is pressed  
against the fastening surface via the screws in half  
way position, the fastening sliders can be moved so  
that the cover is positioned upon the head of the  
screws.



- ④ Spagnolet lock:  
Connects section to cover without use of tools and  
acts as support for additional lighting technology.  
Drop-protection: holds section and cover  
securely together.





RENOU  
300



# Quick-fit mounting system

## Information

▶302

- Components that work together
- Mounting and installation
- Mounting note
- LED lighting technologies
- SDT LED light run

## SDT-System LED IP20/40 ▶32



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## SDT-System LED IP54 ▶32



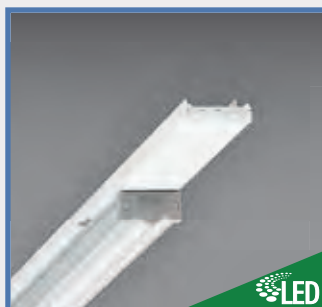
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- ▶ 362 System components IP54
- ▶ 363 Quantity calculation IP54
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## SDT-System T5/T8 IP20/54 ▶32



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- ▶ 398 Device mounts IP20
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- ▶ 428 Light direction IP54

## Refurbishment device mounts ▶32





# System components SDT

## Components that work together

The SDT quick assembly system is a real all-rounder. The light run modular system only consists of a small number of basic elements which provide an exact solution for almost any task thanks to its combination possibilities. The configuration of the light run system is simple and follows the project requirements logically. You can confidently set your tools aside for the later installation of the luminaires - with just a few exceptions, parts are snapped or inserted into place or fixed using the integrated catches. Done.

### The construction principle at a glance

The three basic elements of the system are the support rail, device mounts and light directing components. This is simple, but provides far more possibilities than might be immediately apparent.

- The **SDT mounting rails** are the backbone of the lighting system. They provide a number of options, but are also high-grade across the board. The SDT rail can be used not only for LED systems and fluorescent lamps but also for all protection ratings from IP20 to IP54 FF/D. Just like our own spine, the SDT mounting rail provides far more than just support - by choosing the right wiring connections, very simple but also complex systems can be equipped with integrated light management. The support rails with internal connectors are quickly and securely built or extended - and concealed - to almost endless light runs. Suitable node points in L, T and X shapes also allow complex structures to be modelled. Depending on the project requirement, the support rail is available in white or white-aluminium (similar to RAL 9006). Attachment or suspended assembly options also provide even more possible uses, e.g. in sloping ceilings, different ceiling levels or large spaces between fastenings. If standard solutions are not sufficient, tailor-made solutions are no problem for very special tasks. Please ask us.

- The **device mounts** are the light-generators and thus the core of the quick assembly system. Not only device mounts with the latest LED technology are available but also such for fluorescent lamps (T5 and T8) all of course in many different power ratings. To ensure modern

light management can also be implemented "out of the box" with the SDT quick-assembly system, there are also device mounts with light-control components. If required, these can be individually assembled and pre-configured according to the customer's individual needs. Variable device mounts can be used when planning "down to the Lux" with luminaire requirements and blank units outside the module dimensions. Suitable device mounts are also available for possible protection ratings from IP20 to IP54 FF/D. Device mounts with three-phase busbars allow for the easy integration of spotlights for accent lighting. Easy and quick assembly is assured for the device mounts with patented twist-lock catches in the support rail. In addition, device mounts with integrated light technology such as those for LED lens technology are included in the range.

- The **light directing components** tune the light run for the respective technical light application. To optimise the efficiency of the lighting system, a basic requirement is a targeted light directing component to the illumination surface which must be as low-loss as possible. A wide range of light-directing components is available for many different tasks. However, if they do not provide the desired result, our team of light technology specialists will be more than happy to develop a customer-specific solution for you. The additive light directing components can basically be divided into two categories. Firstly, the reflector-based light directing components with a white or white aluminium coloured external appearance as required, and secondly the self-supporting light directing components, i.e. mirror reflectors which are impressive thanks to their efficiency. The reflector-based light directing components are particularly suitable for applications with high aesthetic and anti-glare requirements because louvre inserts can also be used in the reflectors for anti-glare on the longitudinal side. For applications where these aspects have considerably lower priority than economic needs, the self-supporting mirrors are the right choice.

## Mounting and installation

With the SDT system, all components have been designed for a quick and safe installation. The cable routing for example is already integrated into the support rail and the installation of luminaires, reflectors and louvres takes place without tools. All parts are simply clipped in or fixed safely to the device mounts via integral rotary catches. Power feeding and luminaire connection is via pre-assembled plug contacts.

### Overview of the advantages

Support rails are simply clipped into the mounting brackets on the ceiling or on the suspension.

The mechanical connection of the rails and form components is simple and permanent with pluggable quick-connectors.

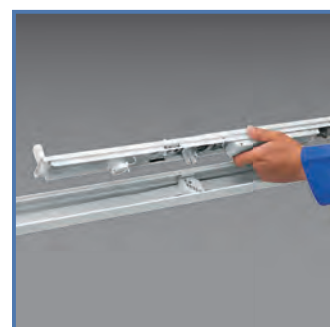
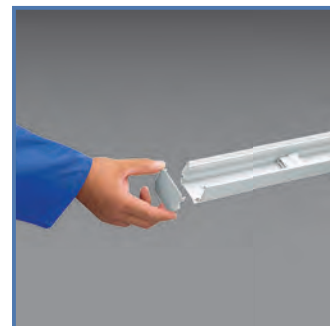
Node connectors with L, T- and X-forms allow simple mounting and electrical installation with intersections, junctions and the altering of directions.

Support rails with integrated 5-, 7- or 11-pole cabling are available for every switching variation.

Feeding can occur via a separate adapter or can be directly wired to the plug connector of the through-wiring with plug-in technology.

Pre-assembled rapid plug-in connections with phase preselection establish the electrical contact to the device mount simply via attachment.

The robust twist-lock catch fixes the device mount in the SDT system and also the light guiding components and reflectors.



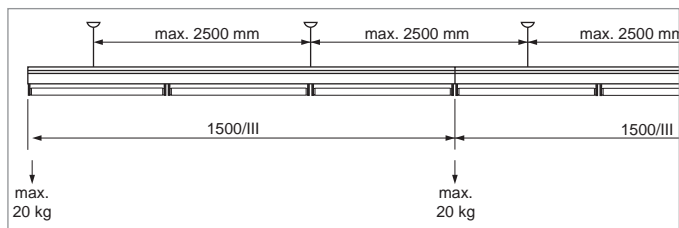
# Mounting note

## Mounting rail

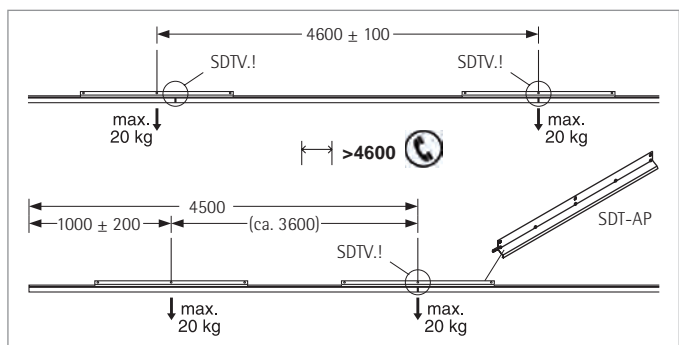
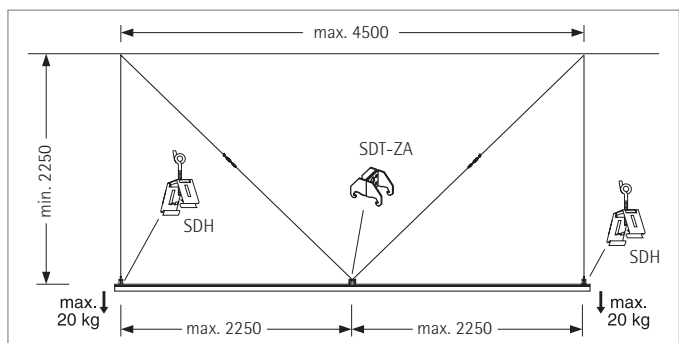
The maximum distance between the vertical suspension points is determined by the weight of the light run. With an open distribution light run with 1500 units as ECG versions, the distance between the vertical suspension points may be increased to a maximum of 3.5 m. For wider distances (up to 4.5 m), a suspension with the suspension profile SDT-AP or M suspension via a central bracket SDT-ZA is recommended.

Attention: The suspensions are possible only for horizontal light runs. Please get in touch for other installations or inclined suspension.

For mounting distance < 2500 mm IP20:



For mounting distance > 2500 mm IP20/40/54:



## Standard device mount

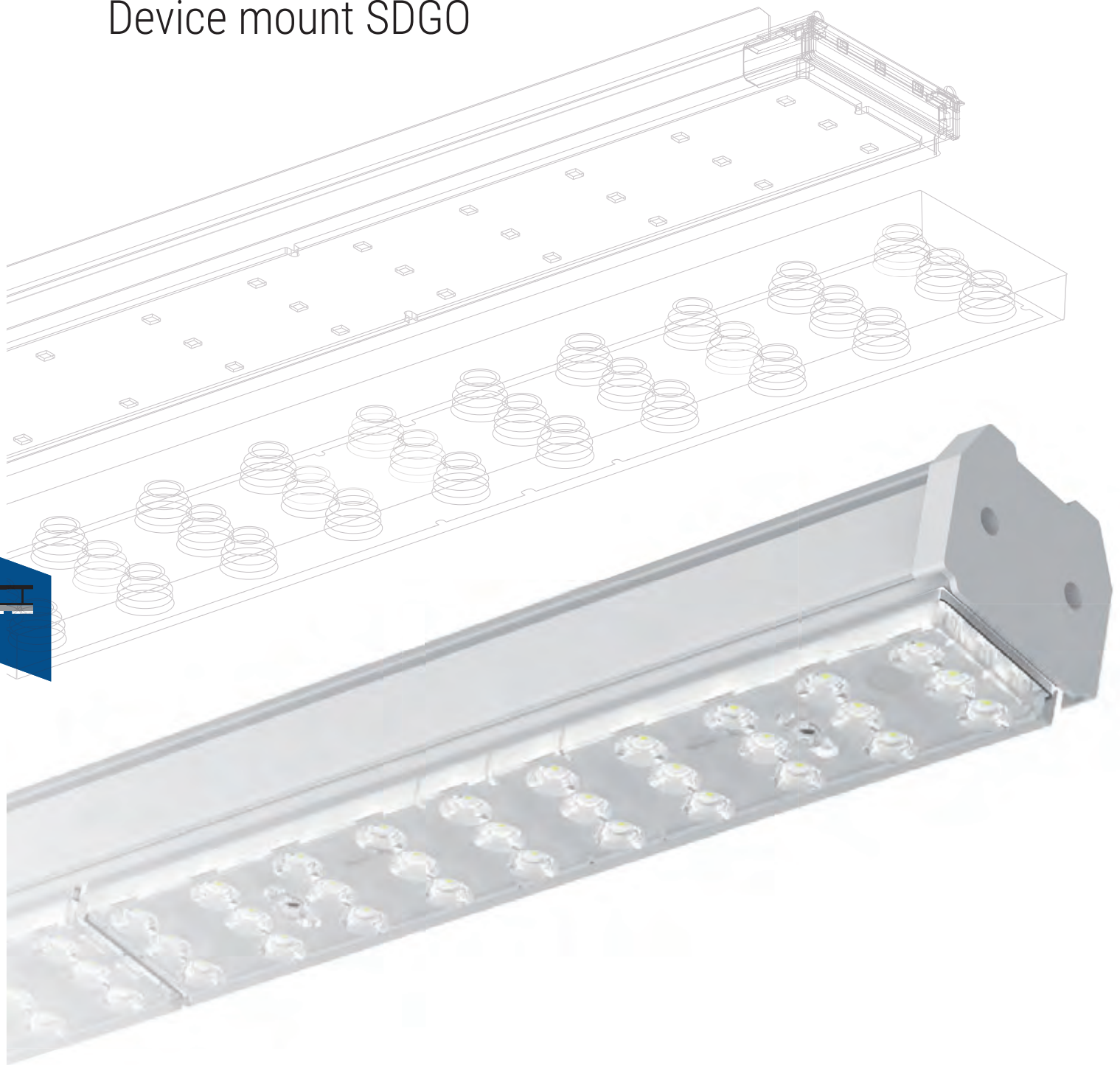
Each support rail unit is equipped with a 5, 7 or 11 socket unit. The device mounts with integrated 3, 4 or 5-pole plug enable a free assignment of the individual poles by shifting of the contact pins. For use of 11-pole wired mounting rails special versions of device mounts are required.






## Sensor device mount

All control functions can only be used with use of the 11-pole mounting rail. In case of using 5- and 7-pole mounting rails, the available functions are restricted.

# Individual.Lens.Optic

## Device mount SDGO



SDGOB	SDGOTB	SDGOT	SDGOH	SDGODA
wide-light distribution	narrow-light / wide-light distribution	narrow-light distribution	extremely narrow-light distribution	double asymmetrical light distribution
				

# Perfection in the light run

- Very good anti-glare effect (UGR 19, VDU-compatible)
- 5 optics in 4 luminous flux for all applications
- Homogeneous scattered light by frosted edge
- Clear, continuous design for flat light
- IP 54 with integrated translucent seal

Ready for even more challenges

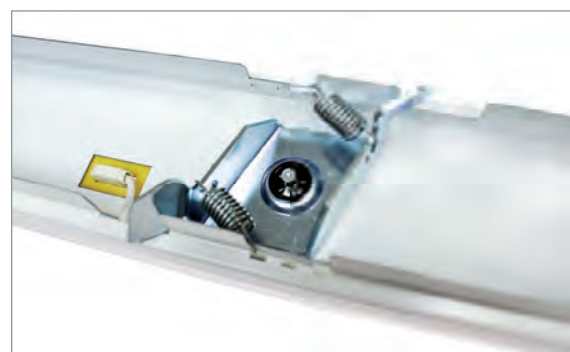


Service life



New catches

With pressure lock, without tools of course also for IP 54





# Linear.Lens.Profil

Device mount SDGL



SDGLB	SDGLT	SDGLH	SDGLDA	SDGLK
wide-light distribution	narrow-light distribution	extremely narrow-light distribution	double asymmetrical light distribution	diffuse light distribution

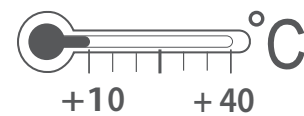
## Efficiency in the light run

- High luminous efficiency up to 159 lm/W
- Highest lumen output up to 17.000 lm
- 5 lighting technologies for all applications
- Continuous optics, a line of light

### Service life



50.000h  
L80/B10



SDGLK: Diffuser with uniform illumination and indirect component



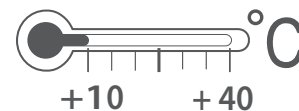
# Diffuser plus reflector

Device mount SDGV

Service life



50.000h  
L80/B10



+10 +40



**SDGV**

**SDGV+SDFB**

**SDGV+SDFT**

**SDGV+SDFH**

**SDGV+SDFA**

general diffuse	wide-light distribution	narrow-light distribution	extremely narrow-light distribution	asymmetrical light distribution

## Economy in the light run

- Robust allround device mounts
- Lighting technology subsequently changeable with compact high-performance aluminium mirrors in MIRO-SILVER® quality
- Asymmetrical mirror for flat wall illumination
- SDGVL: harmonic optically seamless light run
- SDGV, SDGS: equipped for increased impermeability requirements; also in tunable white technology for Human Centric Lighting
- SDGS: released for premises with fire hazards



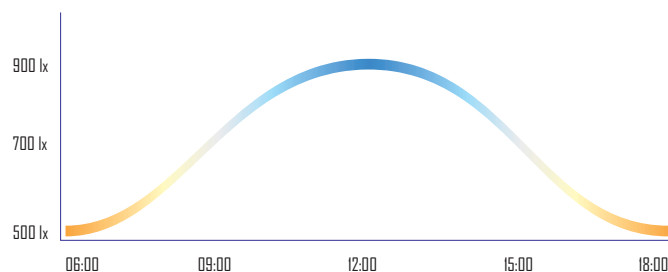
### Human Centric Lighting

#### The time has come

Not only because scientific evidence is now available, giving proof of how our perception of daylight functions, but also because supporting the biological clock promotes health. An optimal light environment can result in significant positive effects in an ageing society, because health will be of more value than ever before.

#### The technology is available

The new scientific findings can be easily integrated today in a world which is increasingly becoming more digital and intelligent. The LED technology not only provides efficient and small light sources, but also the control systems which enable such complex dynamic modifications of the light. Thanks to significantly lower consumption values of modern LED technology, even the higher energy consumption of Human Centric Lighting can be compensated for.





# SDT LED light run

## SDT LED

## IP20

### Individual.Lens.Optic

### Linear.Lens.Profil

#### Light directing

#### fixed

#### variable

#### fixed

#### variable



direct, general diffuse

diffuse direct/indirect  
light distribution

SDGLK	4700 lm 5500 lm 7000 lm	SDGVLK	10000 lm
-------	-------------------------------	--------	----------

wide-light distribution

SDGOB	4000 lm 6000 lm 8000 lm	SDGVOB	8000 lm 10000 lm
-------	-------------------------------	--------	---------------------

SDGLB	4900 lm 5700 lm 7500 lm SDGLB-2 17000 lm	SDGVLB	7500 lm 10000 lm
-------	---	--------	---------------------

narrow-light/wide-light  
distribution

SDGOTB	4000 lm 6000 lm 8000 lm	SDGVOTB	8000 lm 10000 lm
--------	-------------------------------	---------	---------------------

narrow-light distribution

SDGOT	4000 lm 6000 lm 8000 lm	SDGVOT	8000 lm 10000 lm
-------	-------------------------------	--------	---------------------

SDGLT	4900 lm 5800 lm 7500 lm SDGLT-2 17000 lm	SDGVLT	7500 lm 10000 lm
-------	---	--------	---------------------

extremely narrow-light  
distribution

SDGOH	8000 lm	SDGVOH	8000 lm 10000 lm
-------	---------	--------	---------------------

SDGLH	7500 lm	SDGVLH	10000 lm
-------	---------	--------	----------

double asymmetrical  
light distribution

SDGODA	4000 lm 6000 lm
--------	--------------------

SDGLDA	4800 lm 5700 lm 7500 lm
--------	-------------------------------

asymmetrical light  
distribution

Tunable white technology

(Ta) SDT LED-System	IP	4000-4999 lm	5000-6000 lm	7000-7999 lm	8000 lm	10000 lm	17000 lm
---------------------	----	--------------	--------------	--------------	---------	----------	----------

#### Individual.Lens.Optic

SDG(V)O	20	10°C ... 45°C	10°C ... 40°C		10°C ... 35°C	10°C ... 25°C
SDGSO	54		-20°C ... 40°C		-20°C ... 35°C	-20°C ... 25°C

#### Linear.Lens.Profil


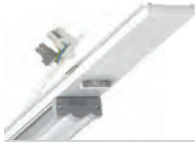











SDG(V)L	20	10°C ... 45°C	10°C ... 40°C	10°C ... 40°C		10°C ... 35°C	10°C ... 35°C
SDG(V)LK	20	10°C ... 40°C	10°C ... 35°C	10°C ... 35°C		10°C ... 30°C	

#### Diffuser + reflector

SDGVL	20	10°C ... 45°C	10°C ... 40°C	10°C ... 40°C		10°C ... 35°C	
SDGV	40	10°C ... 35°C	25°C	10°C ... 35°C			
SDGS	54	0°C ... 35°C	25°C	0°C ... 35°C			

Other temperature ranges on request.



		IP40		IP54			
Diffuser + reflector		Diffuser + reflector		Individual.Lens.Optic			
variable		variable		fixed			
							
SDGVL	4400 lm 5200 lm 7000 lm	SDGV	4200 lm 5100 lm  7000 lm		SDGS	4200 lm 5100 lm  7000 lm	
SDGVL	4400 lm 5200 lm 7000 lm	SDGV	4200 lm 5100 lm  7000 lm	SDGSOB	6000 lm 8000 lm 10000 lm	SDGS	4200 lm 5100 lm  7000 lm
SDGVL	4400 lm 5200 lm 7000 lm	SDGV	4200 lm 5100 lm  7000 lm	SDGSOTB	6000 lm 8000 lm 10000 lm	SDGS	4200 lm 5100 lm  7000 lm
				SDGSOT	6000 lm 8000 lm 10000 lm		
				SDGSOH	8000 lm 10000 lm	SDGS	4200 lm 5100 lm  7000 lm
				SDGSODA	6000 lm		
SDGVL	4400 lm 5200 lm 7000 lm	SDGV	4200 lm 5100 lm  7000 lm			SDGS	4200 lm 5100 lm  7000 lm



 SDT LED-System with emergency lighting B3

	IP	4000-4999 lm	5000-6000 lm	7000-7999 lm	8000 lm
Individual.Lens.Optic					
	20	SDGODA	SDGOT		SDGOB
	54				SDGSOB, SDGSOH
Linear.Lens.Profil					
	20	SDGLDA	SDGLB, SDGLK	SDGLT	
Diffuser + reflector					
	20			SDGVL	
	40			SDGV	
	54			SDGS	

Other types on request. Ambient temperature Ta: emergency lighting B3 25°C.





# LED IP20/40



## Universal LED light run system

As you have come to expect, the Regiolux quick-mount system offers a host of possibilities in practically all fields of application from IP20 to IP40 and up to IP54. LED device mounts are also available to fulfil these tasks in a modern and extremely efficient way. In addition, different light control components have been developed for various visual tasks and aesthetic standards in light quality.

Supplemented by sensors, even large areas can be controlled according to daylight and occupancy. This maximises the potential for sustainable energy-saving in facility management

Everything else needed for a perfect installation can be found in the comprehensive range of accessories.



## Components overview

- ▶ Mounting rails
- ▶ Accessories mounting rails LED IP20, IP40
- ▶ Device mounts LED IP20
- ▶ Device mounts LED IP40
- ▶ Self supporting reflectors



# SDT system LED

Basic system

SDT LED

IP20

Mounting rails



Device mounts

Lens optics

Linear lens

Mirrors self-supporting

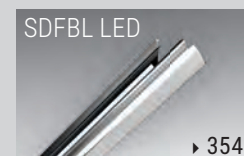
general diffuse or  
diffuse direct/indirect  
distribution



double asymmetrical  
distribution



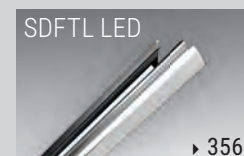
wide distribution



narrow-/wide distribution



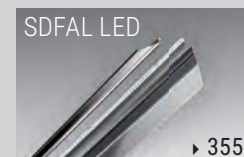
narrow distribution



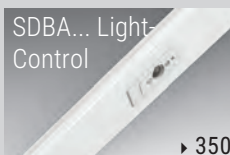
extremely narrow  
distribution  
(High-bay rack mirrors)



asymmetrical distribution



Optional  
Light-Control

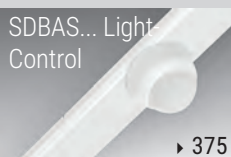
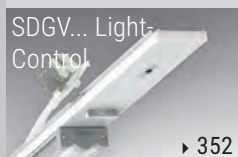
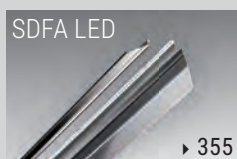
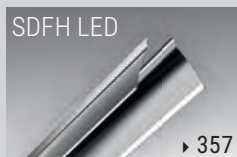
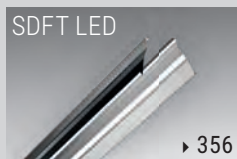
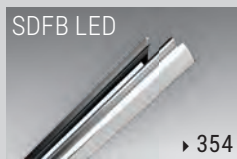


SDT LED

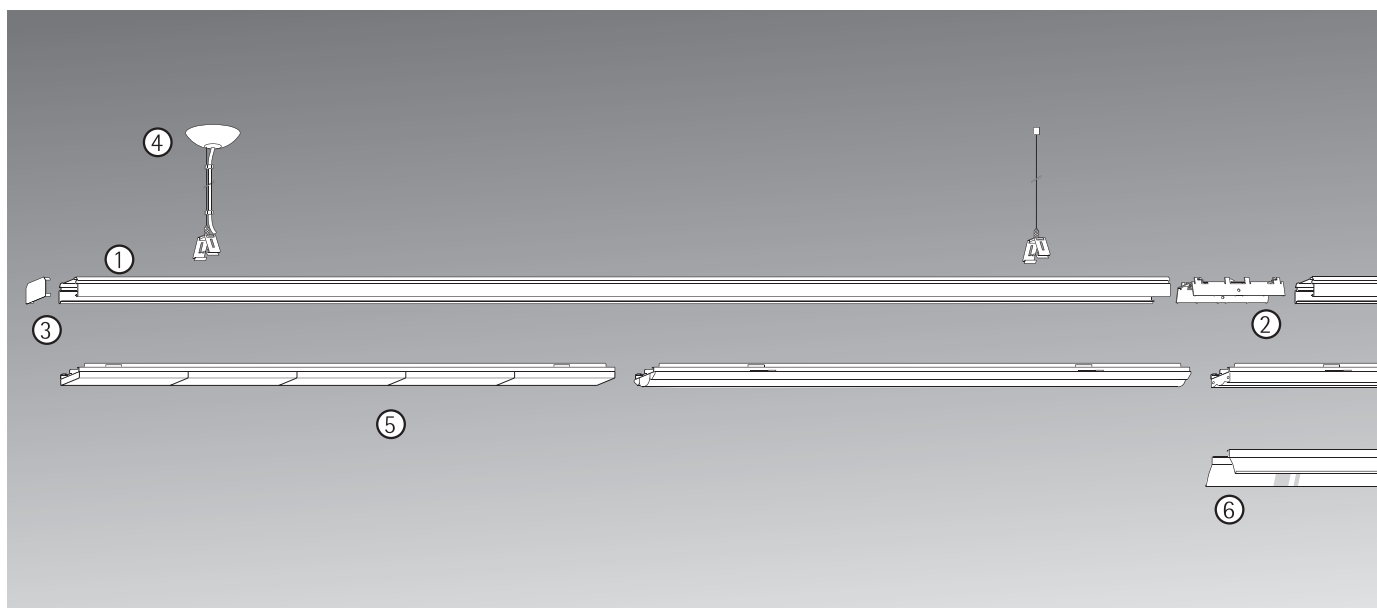
IP40



Mirrors self-supporting



# System components IP20



## LED IP20 Device mounts with integrated lighting technology

Type		e.g. item no	page		e.g. item no	page
Device mounts optically continuous				Device mounts variable positioning		
SDGOB LED	Individual.Lens.Optic wide distribution	1851 0104 100	326	SDGVOB LED	1851 0304 150	327
SDGOTB LED	Individual.Lens.Optic narrow-/wide distribution	1853 0104 100	328	SDGVOTB LED	1853 0304 150	329
SDGOT LED	Individual.Lens.Optic narrow distribution	1852 0104 100	330	SDGVOT LED	1852 0304 150	331
SDGOH LED	Individual.Lens.Optic extremely narrow distribution	1854 0304 100	332	SDGVOH LED	1854 0304 150	333
SDGODA LED	Individual.Lens.Optic double asymmetrical distribution	1856 0104 100	334			
⑤ SDGLB LED	Linear lens wide distribution	1831 4504 100	336	SDGVLB LED	1831 4504 150	338
SDGLB-2 LED	Linear lens wide distribution twin-lined	1831 4204 100	337			
SDGLT LED	Linear lens narrow distribution	1832 4504 100	339	SDGVLTL LED	1832 4504 150	341
SDGLT-2 LED	Linear lens narrow distribution twin-lined	1832 4204 100	340			
SDGLH LED	Linear lens extremely narrow distribution	1834 4504 100	342	SDGVLH LED	1834 4604 150	343
SDGLK LED	Diffuser direct/indirect distribution	1823 4504 100	345	SDGVLK LED	1823 4604 150	346
SDGLDA LED	Linear lens double asymmetrical distribution	1836 4504 100	344			

## LED IP20 Combination SDGVL-LED device mount and light directing

SDGVL LED  
Page 347

Legend						⑤
Type	light directing	item no	page	section		combinability
Mirrors self-supporting						
SDFBL LED	wide distribution	1873 3080 100	354	/ \		x
⑥ SDFTL LED	narrow distribution	1873 4080 100	356	/ \		x
SDFAL LED	asymmetrical distribution	1873 6080 100	355	/ \		x

### Rail construction:

- SDT-rails 1-, 2- or 3-length with appropriate wiring, to be chosen.
- Mountings as SDH (chain hanger) or SDD (for ceiling), at least 2 pcs. and 2.5 m per one addition required.  
Wider slope distances are also possible with optional accessories.
- SDTV/SDTVL (connector) to be considered.
- Select SDTE (rail end faces) per continuous row.
- Device mounts and any other attachments take into account according to table.

<b>System module</b>	①	SDT mounting rails	> Select rails with 1-, 2- or 3-lengths with the corresponding wiring
	④	Mounting	> Chain hook or ceiling mounting in accordance with the distance between the suspensions
	②	Rail connectors	> Calculate the type which suits the protection class
	③	Rail end faces	> Select the pairs of end pieces which suit the protection class
	⑤	Device mounts/ Blank covers	> Quantities with add. attachment parts, if required, according to table calculation of quantities > Select the type which suit the protection class of the device mount
	⑥	Reflectors	> Reflector in accordance with the planned light distribution

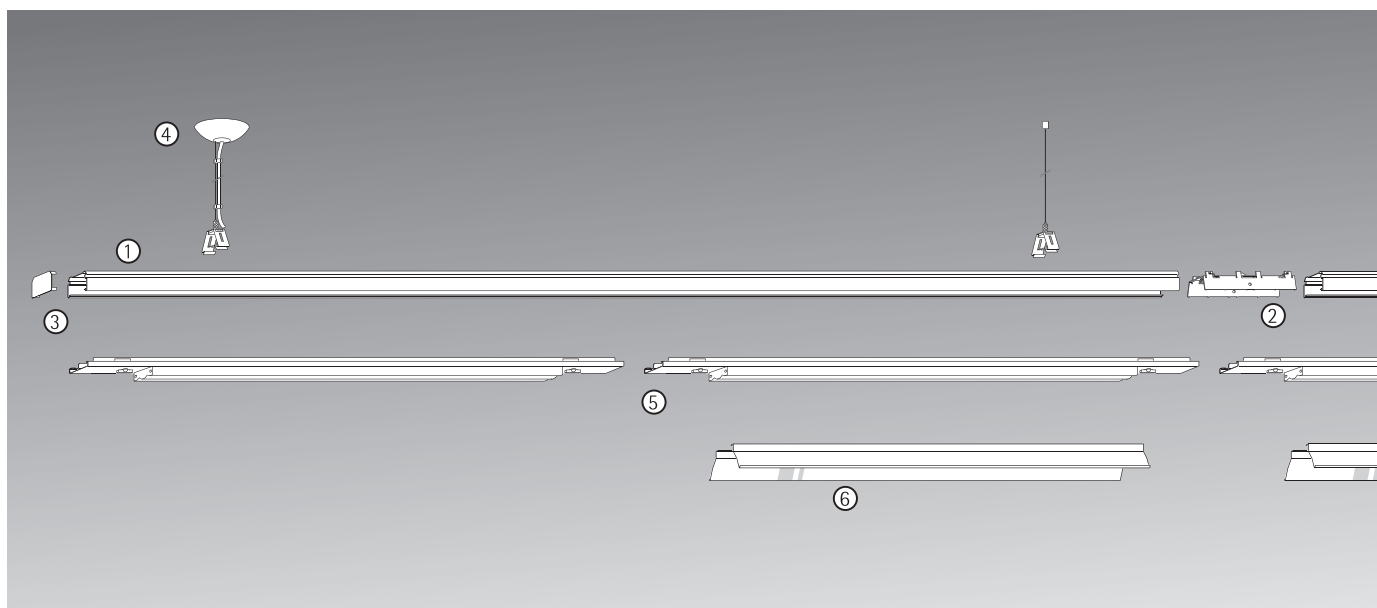
### System components SDT for quantity calculation LED

SDT System-components		1length-mounting rail	2length-mounting rail	3length-mounting rail	connectors	pair end faces	feeder adapter	brackets (ceiling mounting)	+	device mounts	if so +	reflectors
Legend		①	①	①	②	③		④		⑤		⑥
<b>LED IP20</b>	Item Designation	SDT 1500/I 5x2,5mm <sup>2</sup>	SDT 1500/II 5x2,5mm <sup>2</sup>	SDT 1500/III 5x2,5mm <sup>2</sup>	SDTV 1820 0020100 or SDTVL 1820 0031100	SDTE 1890 0231100	SDTAF-7 1820 3092100	SDH 1890 0039100 or SDD 1890 0033100	+	SDGVL LED	if so +	SDFBL LED SDFTL LED SDFAL LED
	Item no	1826 1580100	1826 2580100	1826 3580100						SDGO. LED +SDGVO. LED SDGL. LED		
Length [m]	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece
1,54	1	1	0	0	0	1	1	2		1		1
3,07	2	0	1	0	0	1	1	2		2		2
4,61	3	0	0	1	0	1	1	2		3		3
6,14	4	0	2	0	1	1	1	3		4		4
7,68	5	0	1	1	1	1	1	4		5		5
9,21	6	0	0	2	1	1	1	4		6		6
10,75	7	0	2	1	2	1	1	5		7		7
12,28	8	0	1	2	2	1	1	6		8		8
13,82	9	0	0	3	2	1	1	6		9		9
15,35	10	0	2	2	3	1	1	7		10		10
16,89	11	0	1	3	3	1	1	8		11		11
18,42	12	0	0	4	3	1	1	8		12		12
19,96	13	0	2	3	4	1	1	9		13		13
21,49	14	0	1	4	4	1	1	10		14		14
23,03	15	0	0	5	4	1	1	10		15		15
24,56	16	0	2	4	5	1	1	11		16		16
26,10	17	0	1	5	5	1	1	12		17		17
27,63	18	0	0	6	5	1	1	12		18		18
29,17	19	0	2	5	6	1	1	13		19		19
30,70	20	0	1	6	6	1	1	14		20		20
32,24	21	0	0	7	6	1	1	14		21		21
33,77	22	0	2	6	7	1	1	15		22		22
35,31	23	0	1	7	7	1	1	16		23		23
36,84	24	0	0	8	7	1	1	16		24		24
38,38	25	0	2	7	8	1	1	17		25		25
39,91	26	0	1	8	8	1	1	18		26		26
41,45	27	0	0	9	8	1	1	18		27		27
42,98	28	0	2	8	9	1	1	19		28		28
44,52	29	0	1	9	9	1	1	20		29		29
46,05	30	0	0	10	9	1	1	20		30		30





# System components IP40



LED IP40		Combination SDGV-LED device mounts and light directing				SDGV LED page 352
Legend						⑤
Type	light directing	item no	page	section	combinability	
<b>Mirrors self-supporting</b>						
	SDFB LED	wide distribution	1873 3000 100	354	/ \	X
	SDFT LED	narrow distribution	1873 4000 100	356	/ \	X
⑥	SDFH LED	extremely narrow distribution	1873 9000 100	357	/ \	X
	SDFA LED	asymmetrical distribution	1873 6000 100	355	/ \	X



## Rail construction:

1. Choose SDT-rails 1-, 2- or 3-length with appropriate wiring.
2. Mountings as SDH (chain hanger) or SDD (for ceiling), at least 2 pcs. and 2.5 m per one addition required.  
Wider slope distances are also possible with optional accessories.
3. SDTV/SDTVL (IP40 connector) to be considered.
4. Select SDTES (rail end faces) per continuous row.
5. Device mounts and any other attachments take into account according to table.

<b>System module</b>	①	SDT mounting rails	> Select rails with 1-, 2- or 3-lengths with the corresponding wiring
	④	Mounting	> Chain hook or ceiling mounting in accordance with the distance between the suspensions
	②	Rail connectors	> Calculate the type which suits the protection class
	③	Rail end faces	> Select the pairs of end pieces which suit the protection class
	⑤	Device mounts/ Blank covers	> Quantities with add. attachment parts, if required, according to table calculation of quantities > Select the type which suit the protection class of the device mount
	⑥	Reflectors	> Reflector in accordance with the planned light distribution

### System components SDT for quantity calculation LED IP40

SDT System-components		1length-mounting rail	2length-mounting rail	3length-mounting rail	connectors	pair end faces	feeder adapter	brackets (ceiling mounting)	+	device mounts	if so +	reflectors
Legend		①	①	①	②	③		④		⑤		⑥
<b>LED IP40</b>	Item Designation Item no	SDT 1500/I 5x2,5mm <sup>2</sup> 1826 1580 100	SDT 1500/II 5x2,5mm <sup>2</sup> 1826 2580 100	SDT 1500/III 5x2,5mm <sup>2</sup> 1826 3580 100	SDTV 1820 0020 100 or SDTVL 1820 0031 100	SDTES 1890 0235 100	SDTAF-7 1820 3092 100	SDH 1890 0039 100 or SDD 1890 0033 100	+	SDGV LED	if so +	SDFB LED SDFT LED SDFH LED SDFV LED
	Length [m]	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece
1,54	1	1	0	0	0	1	1	2		1		1
3,07	2	0	1	0	0	1	1	2		2		2
4,61	3	0	0	1	0	1	1	2		3		3
6,14	4	0	2	0	1	1	1	3		4		4
7,68	5	0	1	1	1	1	1	4		5		5
9,21	6	0	0	2	1	1	1	4		6		6
10,75	7	0	2	1	2	1	1	5		7		7
12,28	8	0	1	2	2	1	1	6		8		8
13,82	9	0	0	3	2	1	1	6		9		9
15,35	10	0	2	2	3	1	1	7		10		10
16,89	11	0	1	3	3	1	1	8		11		11
18,42	12	0	0	4	3	1	1	8		12		12
19,96	13	0	2	3	4	1	1	9		13		13
21,49	14	0	1	4	4	1	1	10		14		14
23,03	15	0	0	5	4	1	1	10		15		15
24,56	16	0	2	4	5	1	1	11		16		16
26,10	17	0	1	5	5	1	1	12		17		17
27,63	18	0	0	6	5	1	1	12		18		18
29,17	19	0	2	5	6	1	1	13		19		19
30,70	20	0	1	6	6	1	1	14		20		20
32,24	21	0	0	7	6	1	1	14		21		21
33,77	22	0	2	6	7	1	1	15		22		22
35,31	23	0	1	7	7	1	1	16		23		23
36,84	24	0	0	8	7	1	1	16		24		24
38,38	25	0	2	7	8	1	1	17		25		25
39,91	26	0	1	8	8	1	1	18		26		26
41,45	27	0	0	9	8	1	1	18		27		27
42,98	28	0	2	8	9	1	1	19		28		28
44,52	29	0	1	9	9	1	1	20		29		29
46,05	30	0	0	10	9	1	1	20		30		30





# Mounting rails LED IP20/40



⊕ ⊗ CE IP 20/40

## Housing:

- Mounting rail of roll-formed, torsionally stiff sheet steel, pregalvanised
- Suitable for IP20, IP40
- Flat ribbon cabling installed and wired on rapid mounting socket unit at the factory

## Miscellaneous:

- Special versions of device mounts or device mounts with light control components are needed to use the mounting rail wired with 11 poles

## Accessories:

- To be equipped with either LED, T5 or T8 device mounts. Connection and assembly accessories as well as rail end faces and connectors to be ordered separately.

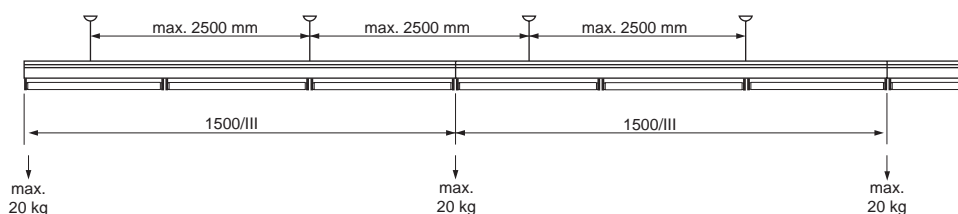
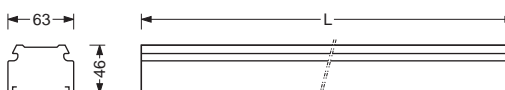
## Mounting instructions:

- The suspensions are designed for vertical loading
- For other arrangements or suspension spacing >2,5 m, approval and/or accessories are required



## Dimensions

Type	Unit	LxBxH/DxH
SDT 1200/I	1200	1235 x 63 x 46
SDT 1200/II	1200	2470 x 63 x 46
SDT 1200/III	1200	3705 x 63 x 46
SDT 1500/I	1500	1535 x 63 x 46
SDT 1500/II	1500	3070 x 63 x 46
SDT 1500/III	1500	4605 x 63 x 46



## Products

Type	Unit	Wiring	Colour	/I		/II		/III	
				Item number	kg	Item number	kg	Item number	kg
SDT	1200	7x2,5 qmm	vw	1828 1360 100	1,25	1828 2360 100	2,45	1828 3360 100	3,70
				1825 1580 100	1,60	1825 2580 100	3,20	1825 3580 100	4,60
	1500	5x1,5 qmm	wa	1825 1580 105	1,60	1825 2580 105	3,20	1825 3580 105	4,60
				1826 1580 100	1,65	1826 2580 100	3,30	1826 3580 100	4,80
		5x2,5 qmm	vw	1826 1580 100	1,65	1826 2580 100	3,30	1826 3580 100	4,80
				1826 1580 105	1,65	1826 2580 105	3,30	1826 3580 105	4,80
		7x2,5 qmm	vw	1828 1580 100	1,75	1828 2580 100	3,50	1828 3580 100	5,20
				1828 1580 105	1,75	1828 2580 105	3,50	1828 3580 105	5,20
		7x2,5/4x1,5 qmm	vw	1830 1580 100	1,92	1830 2580 100	3,73	1830 3580 100	5,80







# Accessories mounting rail SDT IP20

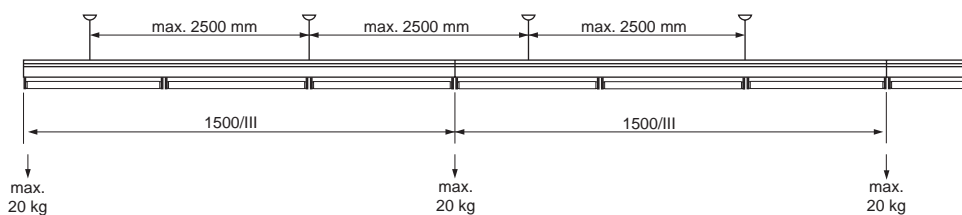


In order to configure around corners as quickly as linear configurations, form components have been developed for the mounting rail system. Using L, T- and X nodes and flexible cabling sophisticated design plans such as grid or island solutions in the form of lighting landscapes can be quickly and easily realized.

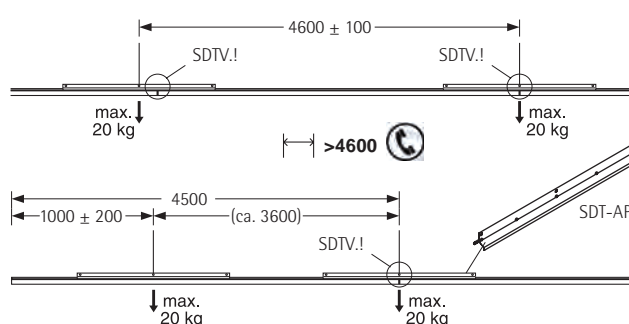
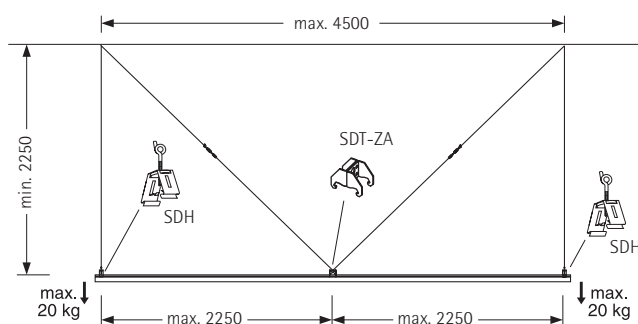
## Accessories

	Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>							
Socket/plug combined	SDTA F-7	ce	Polymer	7pol., 5/7x1.5-2.5mm <sup>2</sup> for SDT	1820 3092 100	1	0,01
	SDTA M-7	ce	Polymer	7pol., 5/7x1.5-2.5mm <sup>2</sup> for SDT	1820 3090 100	1	0,01
	SDTA F-11	ce	Polymer	11pol., 4x1.5mm <sup>2</sup> + 7x1.5-2.5mm <sup>2</sup> for SDT	1820 2092 100	1	0,01
	SDTA M-11	ce	Polymer	11pol., 4x1.5mm <sup>2</sup> + 7x1.5-2.5mm <sup>2</sup> for SDT	1820 2090 100	1	0,01
Connection cable kit	SDT -KDV	vw	St	2xmale+female 7 pol.; 7x2.5mm <sup>2</sup> , 600mm for SDT	1884 7900 100	1	0,21
<i>Protection</i>							
Protective cover IP20	SDTE	vw	PC	for SDT, ATS	1890 0231 100	2	0,02
		wa	PC	for SDT	1890 0231 105	2	0,02
<i>Mounting</i>							
Single wire suspension	SDCS	ws	Stainless steel+mix	l=2000mm for SDT	1890 0034 100	1	0,07
	SDCSE	ws	Stainless steel+mix	Canopy D=123mm, rope D=1.5mm, L=2200mm, 3x1.5mm <sup>2</sup> for SDT	1890 0044 100	1	0,30
Chain suspension	KK	me	St	Chain l=30m, for SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1	4,60
	KP 80	me	St+PC	l=800mm for suspended luminaires	9282 9080 100	1	0,27
	SDH	me	Inox	for SDT, ATS at chain	1890 0039 100	1	0,04
	SDT -AP	me	St	for SDT	1890 0022 100	1	0,93
	SDT -ZA	me	St	for SDT	6820 9300 110	1	0,20
Tubular pendant suspension	RP 50	ws	St+PC	d=16mm, M13, l=500mm for suspended luminaires	9280 9050 100	1	0,25
	RP 80	ws	St+PC	d=16mm, M13, l=800mm for suspended luminaires	9280 9080 100	1	0,33
	RP 100	ws	St+PC	d=16mm, M13, l=1000mm for suspended luminaires	9280 9100 100	1	0,40
	SDRP	me	Stainless steel+mix	for SDT at tubular pendant RP	1890 0054 100	1	0,02
Mounting clip	SDCT	me	Inox	for SDT at visible T-rail	1890 0042 100	1	0,03
	SDD	me	Inox	for SDT at ceiling	1890 0033 100	1	0,01
<i>Structure</i>							
Mounting rail connector	SDT -K L	vw	St	L form	1884 7200 100	1	0,45
		wa	St	L form	1884 7200 105	1	0,62
	SDT -K T	vw	St	T-form	1884 7300 100	1	0,84
		wa	St	T-form	1884 7300 105	1	0,84
	SDT -K X	vw	St	X-form	1884 7400 100	1	0,63
		wa	St	X-form	1884 7400 105	1	1,10
	SDTV	me	St.galv.	for SDT	1820 0020 100	1	0,22
	SDTVL	me	St.galv.	detachable for SDT	1820 0031 100	1	0,24

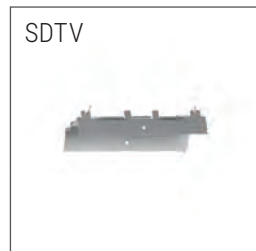
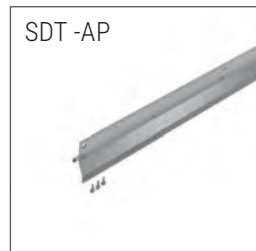
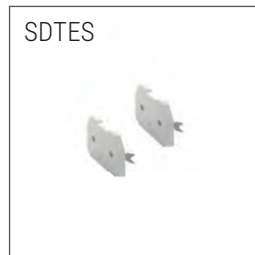
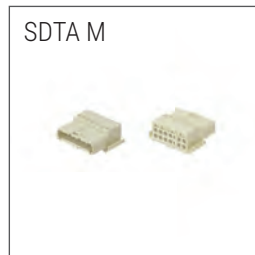
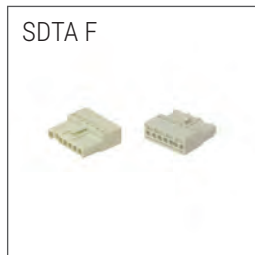
For mounting distance < 2500 mm:



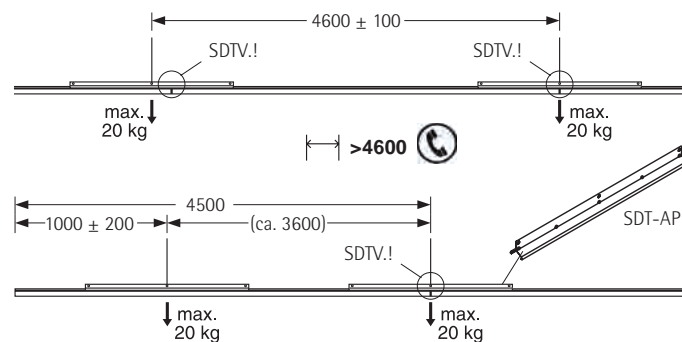
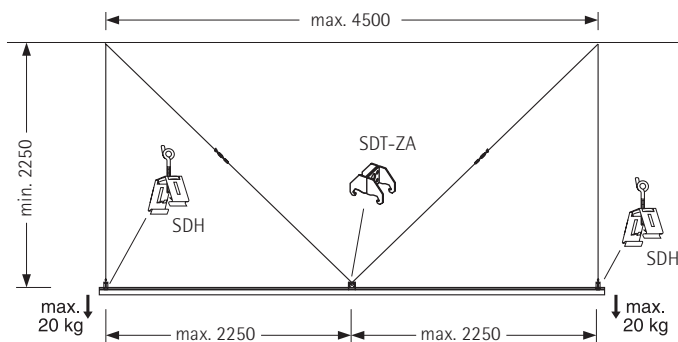
For mounting distance > 2500 mm:





# Accessories mounting rail SDT IP40



For mounting distance > 2500 mm:



## Accessories

	Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>							
Socket/plug combined	SDTA F-7	ce	Polymer	7pol., 5/7x1.5-2.5mm <sup>2</sup> for SDT	1820 3092 100	1	0,01
	SDTA M-7	ce	Polymer	7pol., 5/7x1.5-2.5mm <sup>2</sup> for SDT	1820 3090 100	1	0,01
	SDTA F-11	ce	Polymer	11pol., 4x1.5mm <sup>2</sup> + 7x1.5-2.5mm <sup>2</sup> for SDT	1820 2092 100	1	0,01
	SDTA M-11	ce	Polymer	11pol., 4x1.5mm <sup>2</sup> + 7x1.5-2.5mm <sup>2</sup> for SDT	1820 2090 100	1	0,01
<i>Protection</i>							
Protective cover IP54	SDTES	vw	PC	for SDT IP54	1890 0235 100	2	0,02
<i>Mounting</i>							
Single wire suspension	SDCS	ws	Stainless steel+mix	l=2000mm for SDT	1890 0034 100	1	0,07
	SDCSE	ws	Stainless steel+mix	Canopy D=123mm, rope D=1.5mm, L=2200mm, 3x1.5mm <sup>2</sup> for SDT	1890 0044 100	1	0,30
Chain suspension	KK	me	St	Chain l=30m, for SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1	4,60
	KP 80	me	St+PC	l=800mm for suspended luminaires	9282 9080 100	1	0,27
	SDH	me	Inox	for SDT, ATS at chain	1890 0039 100	1	0,04
	SDT -AP	me	St	for SDT	1890 0022 100	1	0,93
	SDT -ZA	me	St	for SDT	6820 9300 110	1	0,20
Tubular pendant suspension	RP 50	ws	St+PC	d=16mm, M13, l=500mm for suspended luminaires	9280 9050 100	1	0,25
	RP 80	ws	St+PC	d=16mm, M13, l=800mm for suspended luminaires	9280 9080 100	1	0,33
	RP 100	ws	St+PC	d=16mm, M13, l=1000mm for suspended luminaires	9280 9100 100	1	0,40
	SDRP	me	Stainless steel+mix	for SDT at tubular pendant RP	1890 0054 100	1	0,02
Mounting clip	SDCT	me	Inox	for SDT at visible T-rail	1890 0042 100	1	0,03
	SDD	me	Inox	for SDT at ceiling	1890 0033 100	1	0,01
<i>Structure</i>							
Mounting rail connector	SDTV	me	St.galv.	for SDT	1820 0020 100	1	0,22
	SDTVL	me	St.galv.	detachable for SDT	1820 0031 100	1	0,24





# Device mounts LED IP20



## Lighting technology SDGOB:

- Direct, wide light distribution using Individual.Lens.Optic made of PMMA plastic
- Continuous optics
- Good glare limitation

## Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated snap-in catches

## Switching:

- 1 Control gear
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

## Miscellaneous:

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



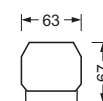
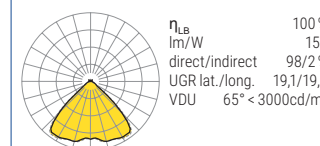
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGOB	1500	LED	1531 x 55 x 37



## Combination

SDT+SDGOB/1500 LED 4000 lm 840



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Individual.Lens.Optic direct wide distribution optically continuous IP 20</i>							
SDGOB	1500	LED 4000lm 840	26	vw	ED	1851 0104 100	1,90
				vw	DALI	1851 0106 600	1,90
		LED 6000lm 840	39	vw	ED	1851 0204 100	1,90
				vw	DALI	1851 0206 600	1,90
		LED 8000lm 840	56	vw	ED	1851 0304 100	1,90
				vw	DALI	1851 0306 600	1,90
	vw			EM pack 3h	1851 0374 100	2,60	
	vw			EM pack 3h DALI	1851 0376 600	2,60	

## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01

# Device mounts LED IP20



## Lighting technology SDGVOB:

- Direct, wide light distribution using Individual.Lens.Optic made of PMMA plastic
- Continuous optics
- Good glare limitation

## Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated snap-in catches
- Variably positionable on the mounting rail

## Switching:

- 1 Control gear
- Electronic driver
- Variable device mount plug with tool-free phase preselection and locating finger

## Miscellaneous:

- Other light colours, lighting technologies, luminous fluxes or emergency lighting on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



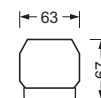
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGVOB	1500	LED	1531 x 55 x 37



## Combination

SDT+SDGVOB/1500 LED 8000 lm 840



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Individual.Lens.Optic direct wide distribution optically continuous positioning variable IP 20</i>							
SDGVOB	1500	LED 8000lm 840	56	vw	ED	1851 0304 150	2,00
				vw	DALI	1851 0306 650	2,00
		LED 10000lm 840	75	vw	ED	1851 0404 150	2,00
				vw	DALI	1851 0406 650	2,00

## Replacement parts

Type	Colour	Material	Details	Item number	kg	
<i>Electrical technology</i>						
Contact pin	SDG -Contact 1-Pol	me	St+mix	for SDT	9200 0267 101	10 0,01



# Device mounts LED IP20



### Lighting technology SDGOTB:

- Direct, narrow/wide light distribution using Individual.Lens.Optic made of PMMA plastic
- Continuous optics
- Very good glare limitation

### Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

### Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated snap-in catches

### Switching:

- 1 Control gear
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

### Miscellaneous:

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



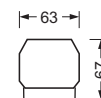
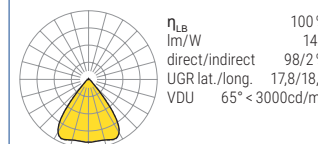
### Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGOTB	1500	LED	1531 x 55 x 37



### Combination

SDT+SDGOTB/1500 LED 6000 lm 840



### Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Individual.Lens.Optic direct narrow/wide distribution optically continuous IP 20</i>							
SDGOTB	1500	LED 4000lm 840	26	vw	ED	1853 0104 100	1,90
				vw	DALI	1853 0106 600	1,90
	LED 6000lm 840	vw	ED	1853 0204 100	1,90		
		vw	DALI	1853 0206 600	1,90		
		LED 8000lm 840	vw	ED	1853 0304 100	1,90	
			vw	DALI	1853 0306 600	1,90	

### Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01



# Device mounts LED IP20



## Lighting technology SDGVOTB:

- Direct, narrow/wide light distribution using Individual.Lens.Optic made of PMMA plastic
- Continuous optics
- Very good glare limitation

## Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated snap-in catches
- Variably positionable on the mounting rail

## Switching:

- 1 Control gear
- Electronic driver
- Variable device mount plug with tool-free phase preselection and locating finger

## Miscellaneous:

- Other light colours, lighting technologies, luminous fluxes or emergency lighting on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



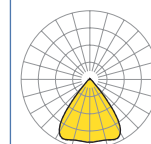
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGVOTB	1500	LED	1531 x 55 x 37

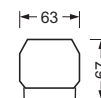


## Combination

SDT+SDGVOTB/1500 LED 8000 lm 840



$\eta_{L8}$  100 %  
lm/W 139  
direct/indirect 98/2 %  
UGR lat./long. 18,8/19,1



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Individual.Lens.Optic direct narrow/wide distribution optically continuous positioning variable IP 20</i>							
SDGVOTB	1500	LED 8000lm 840	56	vw	ED	1853 0304 150	2,00
				vw	DALI	1853 0306 650	2,00
		LED 10000lm 840	75	vw	ED	1853 0404 150	2,00
				vw	DALI	1853 0406 650	2,00

## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG -Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01





# Device mounts LED IP20



### Lighting technology SDGOT:

- Direct, narrow light distribution using Individual.Lens.Optic made of PMMA plastic
- Continuous optics
- Good glare limitation

### Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

### Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated snap-in catches

### Switching:

- 1 Control gear
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

### Miscellaneous:

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



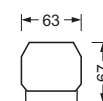
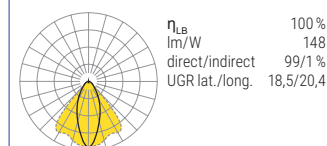
### Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGOT	1500	LED	1531 x 55 x 37



### Combination

SDT+SDGOT/1500 LED 6000 lm 840



### Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Individual.Lens.Optic direct narrow distribution optically continuous IP 20</i>							
SDGOT	1500	LED 4000lm 840	26	vw	ED	1852 0104 100	1,90
				vw	DALI	1852 0106 600	1,90
		LED 6000lm 840	39	vw	ED	1852 0204 100	1,90
				vw	DALI	1852 0206 600	1,90
				vw	EM pack 3h	1852 0274 100	2,60
				vw	EM pack 3h DALI	1852 0276 600	2,60
LED 8000lm 840	56	vw	ED	1852 0304 100	1,90		
		vw	DALI	1852 0306 600	1,90		

### Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01



# Device mounts LED IP20



## Lighting technology SDGVOT:

- Direct, narrow light distribution using Individual.Lens.Optic made of PMMA plastic
- Continuous optics
- Good glare limitation

## Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated snap-in catches
- Variably positionable on the mounting rail

## Switching:

- 1 Control gear
- Electronic driver
- Variable device mount plug with tool-free phase preselection and locating finger

## Miscellaneous:

- Other light colours, lighting technologies, luminous fluxes or emergency lighting on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



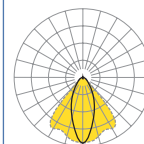
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGVOT	1500	LED	1531 x 55 x 37

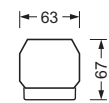


## Combination

SDT+SDGVOT/1500 LED 8000 lm 840



$\eta_{L8}$  100 %  
lm/W 139  
direct/indirect 99/1 %  
UGR lat./long. 19,5/21,5



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Individual.Lens.Optic direct narrow distribution optically continuous positioning variable IP 20</i>							
SDGVOT	1500	LED 8000lm 840	56	vw	ED	1852 0304 150	2,00
				vw	DALI	1852 0306 650	2,00
		LED 10000lm 840	75	vw	ED	1852 0404 150	2,00
				vw	DALI	1852 0406 650	2,00

## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG -Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01



# Device mounts LED IP20



### Lighting technology SDGOH:

- Direct, extremely narrow light distribution using Individual.Lens.Optic made of PMMA plastic
- Continuous optics
- Very good glare limitation

### Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

### Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated snap-in catches

### Switching:

- 1 Control gear
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

### Miscellaneous:

- Other light colours, lighting technologies, luminous fluxes or emergency lighting on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



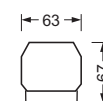
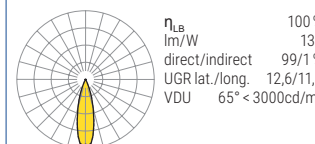
### Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGOH	1500	LED	1531 x 55 x 37



### Combination

SDT+SDGOH/1500 LED 8000 lm 840



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Individual.Lens.Optic direct extremely narrow distribution optically continuous IP 20</i>							
SDGOH	1500	LED 8000lm 840	56	vw	ED	1854 0304 100	1,90
				vw	DALI	1854 0306 600	1,90

## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01



# Device mounts LED IP20



## Lighting technology SDGVOH:

- Direct, extremely narrow light distribution using Individual.Lens.Optic made of PMMA plastic
- Continuous optics
- Very good glare limitation

## Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated snap-in catches
- Variably positionable on the mounting rail

## Switching:

- 1 Control gear
- Electronic driver
- Variable device mount plug with tool-free phase preselection and locating finger

## Miscellaneous:

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



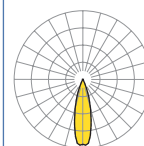
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGVOH	1500	LED	1531 x 55 x 37

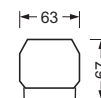


## Combination

SDT+SDGVOH/1500 LED 8000 lm 840



$\eta_{Ls}$  100 %  
lm/W 138  
direct/indirect 99/1 %  
UGR lat./long. 12,6/11,3  
VDU 65° < 3000cd/m²



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Individual.Lens.Optic direct extremely narrow distribution optically continuous positioning variable IP 20</i>							
SDGVOH	1500	LED 8000lm 840	56	vw	ED	1854 0304 150	2,00
				vw	DALI	1854 0306 650	2,00
		LED 10000lm 840	75	vw	ED	1854 0404 150	2,00
				vw	DALI	1854 0406 650	2,00

## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG -Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01





# Device mounts LED IP20



### Lighting technology SDGODA:

- Direct, double asymmetrical light distribution using Individual.Lens.
- Optic made of PMMA plastic
- Continuous optics
- Good glare limitation

### Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

### Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated snap-in catches

### Switching:

- 1 Control gear
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

### Miscellaneous:

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



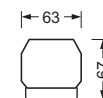
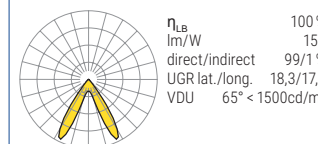
### Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGODA	1500	LED	1531 x 55 x 37



### Combination

SDT+SDGODA/1500 LED 4000 lm 840



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Individual.Lens.Optic direct Batwing distribution optically continuous IP 20</i>							
SDGODA	1500	LED 4000lm 840	26	vw	ED	1856 0104 100	1,90
					DALI	1856 0106 600	1,90
					EM pack 3h	1856 0174 100	2,60
					EM pack 3h DALI	1856 0176 600	2,60
					LED 6000lm 840	39	vw
				vw	DALI	1856 0206 600	1,90

## Replacement parts

Type	Colour	Material	Details	Item number	kg	
<i>Electrical technology</i>						
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101	10 0,01





# Device mounts LED IP20



**Lighting technology SDGLB:**

- Direct, wide light distribution using Linear.Lens.Profil made of matt PMMA plastic
- Optically seamless light run

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Housing:**

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated swing handle latches

**Switching:**

- The number of control units varies according to the version
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

**Miscellaneous:**

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



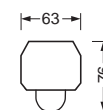
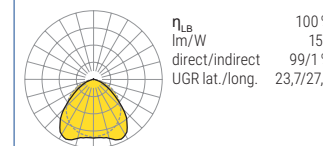
**Dimensions**

Type	Unit	Versions	LxBxH/DxH
SDGLB	1500	LED	1531 x 63 x 46



**Combination**

SDT+SDGLB/1500 LED 7500 lm 840



**Products**

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Linear.Lens.Profil direct wide distribution optically continuous IP 20</i>							
SDGLB	1500	LED 4900lm 840	32	vw	ED	1831 4304 100	1,75
				vw	DALI	1831 4306 600	1,82
	LED 5700lm 840	39	vw	ED	1831 4404 100	1,75	
			vw	DALI	1831 4406 600	1,82	
			vw	EM pack 3h	1831 4474 100	2,52	
			vw	ED	1831 4504 100	1,70	
LED 7500lm 840	47	vw	ED	1831 4504 100	1,70		
		vw	DALI	1831 4506 600	1,70		

**Replacement parts**

Type	Colour	Material	Details	Item number	kg	
<i>Electrical technology</i>						
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101	10 0,01





# Device mounts LED IP20



NEW REGIOLUX 337

LED A++ CE  
IP 20

## Lighting technology SDGLB-2:

- Direct, wide light distribution using double-row Linear.Lens.Profil made of matt PMMA plastic
- Optically seamless light run

## Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated swing handle latches

## Switching:

- 2 Control gears
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

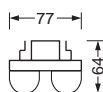
## Miscellaneous:

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



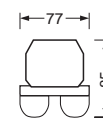
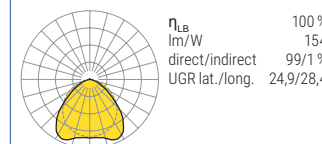
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGLB -2	1500	LED	1531 x 77 x 64



## Combination

SDT+SDGLB/1500-2 LED 17000lm 840



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Linear.Lens.Profil direct wide distribution optically continuous IP 20</i>							
SDGLB -2	1500	LED 17000lm 840	111	vw	ED	1831 4204 100	2,90
				vw	DALI	1831 4206 600	2,90

## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG -Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01





# Device mounts LED IP20



**Lighting technology SDGVLB:**

- Direct, wide light distribution using Linear.Lens.Profil made of matt PMMA plastic
- Optically seamless light run

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Housing:**

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated swing handle latches
- Variably positionable on the mounting rail

**Switching:**

- 1 Control gear
- Electronic driver
- Variable device mount plug with tool-free phase preselection and locating finger

**Miscellaneous:**

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



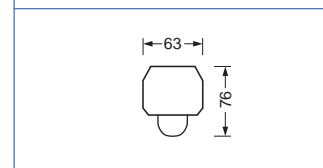
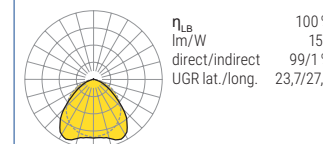
**Dimensions**

Type	Unit	Versions	LxBxH/DxH
SDGVLB	1500	LED	1531 x 63 x 46



**Combination**

SDT+SDGVLB/1500 LED 7500 lm 840



**Products**

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	
<i>LED - Linear.Lens.Profil direct wide distribution optically continuous positioning variable IP 20</i>							
SDGVLB	1500	LED 7500lm 840	47	vw	ED	1831 4504 150	2,10
				vw	DALI	1831 4506 650	2,10
		LED 10000lm 840	73	vw	ED	1831 4604 150	2,10
				vw	DALI	1831 4606 650	2,10

**Replacement parts**

Type	Colour	Material	Details	Item number	
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01



# Device mounts LED IP20



NEW REGIOLUX 339



## Lighting technology SDGLT:

- Direct narrow light distribution using Linear.Lens.Profil made of clear PMMA plastic
- Optically seamless light run

## Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated swing handle latches

## Switching:

- The number of control units varies according to the version
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

## Miscellaneous:

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



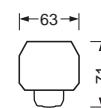
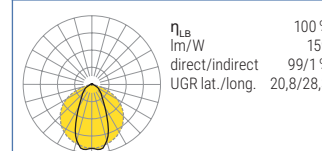
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGLT	1500	LED	1531 x 63 x 41



## Combination

SDT+SDGLT LED 7500 lm 840



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Linear.Lens.Profil direct narrow distribution optically continuous IP 20</i>							
SDGLT	1500	LED 4900lm 840	32	vw	ED	1832 4304 100	1,63
				vw	DALI	1832 4306 600	1,70
	LED 5800lm 840	39	vw	ED	1832 4404 100	1,63	
			vw	DALI	1832 4406 600	1,70	
			LED 7500lm 840	47	vw	ED	1832 4504 100
	vw	DALI			1832 4506 600	1,70	
	vw	EM pack 3h	1832 4574 100	2,80			

## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01



**Lighting technology SDGLT-2:**

- Direct narrow-beam light distribution using double-row Linear.Lens.
- Profil made of clear PMMA plastic
- Optically seamless light run

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Housing:**

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated swing handle latches

**Switching:**

- 2 Control gears
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

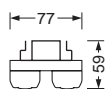
**Miscellaneous:**

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



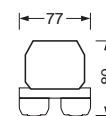
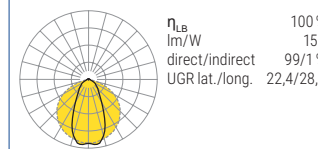
**Dimensions**

Type	Unit	Versions	LxBxH/DxH
SDGLT-2	1500	LED	1531 x 77 x 59



**Combination**

SDT+SDGLT/1500-2 LED 17000 lm 840



**Products**

Type	Unit	Lamps	$P_{sys}$ [W]	Colour	Ballast	Item number	kg
<i>LED - Linear.Lens.Profil direct narrow distribution optically continuous IP 20</i>							
SDGLT-2	1500	LED 17000lm 840	111	vw	ED	1832 4204 100	2,90
				vw	DALI	1832 4206 600	2,90

**Replacement parts**

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01



# Device mounts LED IP20



NEW REGIOLUX 341



## Lighting technology SDGVLT:

- Direct narrow light distribution using Linear.Lens.Profil made of clear PMMA plastic
- Optically seamless light run

## Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated swing handle latches
- Variably positionable on the mounting rail

## Switching:

- 1 Control gear
- Electronic driver
- Variable device mount plug with tool-free phase preselection and locating finger

## Miscellaneous:

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



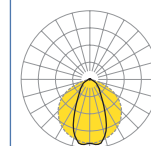
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGVLT	1500	LED	1531 x 55 x 41

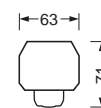


## Combination

SDT+SDGVLT/1500 LED 7500 lm 840



$\eta_{Ls}$  100 %  
lm/W 159  
direct/indirect 99/1 %  
UGR lat./long. 20,8/28,3



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Linear.Lens.Profil direct narrow distribution optically continuous positioning variable IP 20</i>							
SDGVLT	1500	LED 7500lm 840	47	vw	ED	1832 4504 150	2,10
				vw	DALI	1832 4506 650	2,10
		LED 10000lm 840	73	vw	ED	1832 4604 150	2,10
				vw	DALI	1832 4606 650	2,10

## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG -Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01





# Device mounts LED IP20



LED A++ **IP 20**

**Lighting technology SDGLH:**

- Direct, extremely narrow light distribution using Linear.Lens.Profil made of matt PMMA plastic
- Optically seamless light run

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Housing:**

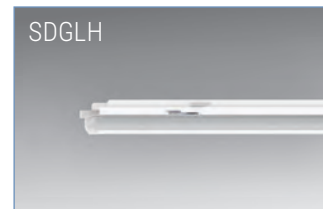
- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated swing handle latches

**Switching:**

- 1 Control gear
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

**Miscellaneous:**

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



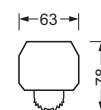
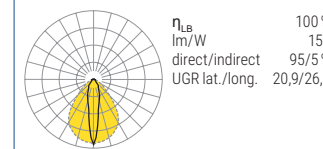
**Dimensions**

Type	Unit	Versions	LxBxH/DxH
SDGLH	1500	LED	1531 x 55 x 48



**Combination**

SDT+SDGLH/1500 LED 7500 lm 840



**Products**

Type	Unit	Lamps	$P_{sys}$ [W]	Colour	Ballast	Item number	
<i>LED - Linear.Lens.Profil direct extremely narrow distribution optically continuous IP 20</i>							
SDGLH	1500	LED 7500lm 840	47	vw	ED	1834 4504 100	1,94
				vw	DALI	1834 4506 600	2,01

**Replacement parts**

Type	Colour	Material	Details	Item number	
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01



# Device mounts LED IP20



NEW REGIOLUX 343



## Lighting technology SDGVLH:

- Direct, extremely narrow light distribution using Linear.Lens.Profil made of matt PMMA plastic
- Optically seamless light run

## Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated swing handle latches
- Variably positionable on the mounting rail

## Switching:

- 1 Control gear
- Electronic driver
- Variable device mount plug with tool-free phase preselection and locating finger

## Miscellaneous:

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



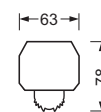
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGVLH	1500	LED	1531 x 55 x 48



## Combination

SDT+SDGVLH/1500 LED 10000 lm 840



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Linear.Lens.Profil direct extremely narrow distribution optically continuous positioning variable IP 20</i>							
SDGVLH	1500	LED 10000lm 840	73	vw	ED	1834 4604 150	2,10
				vw	DALI	1834 4606 650	2,10

## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101
					10 0,01



# Device mounts LED IP20



**Lighting technology SDGLDA:**

- Direct, double asymmetrical light distribution using Linear.Lens.Profil made of matt PMMA plastic
- Optically seamless light run

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Housing:**

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated swing handle latches

**Switching:**

- 1 Control gear
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

**Miscellaneous:**

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



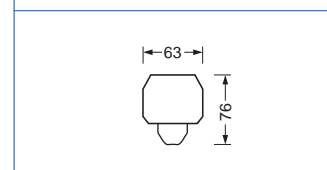
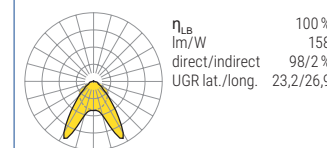
**Dimensions**

Type	Unit	Versions	LxBxH/DxH
SDGLDA	1500	LED	1531 x 63 x 46



**Combination**

SDT+SDGLDA/1500 LED 7500 lm 840



**Products**

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Linear.Lens.Profil direct Batwing distribution optically continuous IP 20</i>							
SDGLDA	1500	LED 4800lm 840	32	vw	ED	1836 4304 100	1,69
				vw	DALI	1836 4306 600	1,76
				vw	EM pack 3h	1836 4374 100	2,52
	LED 5700lm 840	39	vw	ED	1836 4404 100	1,69	
			vw	DALI	1836 4406 600	1,76	
			LED 7500lm 840	47	vw	ED	1836 4504 100
vw	DALI	1836 4506 600			1,70		

**Replacement parts**

Type	Colour	Material	Details	Item number	kg	
<i>Electrical technology</i>						
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101	10 0,01



# Device mounts LED IP20



NEW REGIOLUX 345



## Lighting technology SDGLK:

- Direct/indirect light distribution, frosted diffuser made of PMMA plastic with inner longitudinal prisms
- Optically seamless light run

## Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated swing handle latches

## Switching:

- 1 Control gear
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

## Miscellaneous:

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



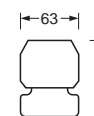
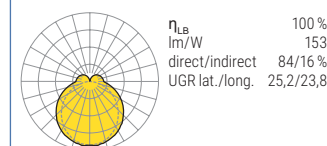
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGLK	1500	LED	1531 x 63 x 54



## Combination

SDT+SDGLK/1500 LED 7000 lm 840



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg		
<i>LED - Diffuser, frosted direct/indirect distribution optically continuous IP 20</i>									
SDGLK	1500	LED 4700lm 840	32	vw	ED	1823 0304 100	2,00		
				vw	DALI	1823 0306 600	2,00		
				vw	EM pack 3h	1823 0474 100	2,70		
		LED 5500lm 840	40	LED 5500lm 840	40	vw	ED	1823 0404 100	2,00
						vw	DALI	1823 0406 600	2,00
						vw	EM pack 3h	1823 0474 100	2,70
						vw	ED	1823 4504 100	2,00
						vw	DALI	1823 4506 600	2,00
						vw	EM pack 3h	1823 0474 100	2,70

## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101





# Device mounts LED IP20



### Lighting technology SDGVLK:

- Direct/indirect light distribution, frosted diffuser made of PMMA plastic with inner longitudinal prisms
- Optically seamless light run

### Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

### Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated swing handle latches
- Variably positionable on the mounting rail

### Switching:

- 1 Control gear
- Electronic driver
- Variable device mount plug with tool-free phase preselection and locating finger

### Miscellaneous:

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



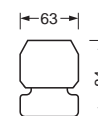
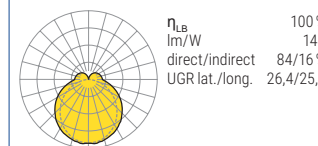
### Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGVLK	1500	LED	1531 x 63 x 54



### Combination

SDT+SDGVLK/1500 LED 10000 lm 840



### Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	
<i>LED - Diffuser, frosted direct/indirect distribution optically continuous positioning variable IP 20</i>							
SDGVLK	1500	LED 10000lm 840	73	vw	ED	1823 4604 150	2,00
				vw	DALI	1823 4606 650	2,00

### Replacement parts

Type	Colour	Material	Details	Item number	
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01

# Device mounts LED IP20



NEW REGIOLUX 347



## Lighting technology SDGVL:

- Direct, open light distribution
- Polycarbonate LED diffuser cover
- For continuous light run design

## Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated swing handle latches
- Variably positionable on the mounting rail

## Switching:

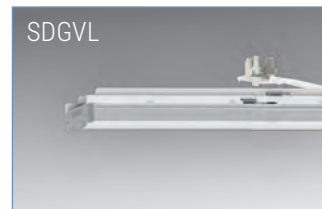
- 1 Control gear
- Electronic driver
- Variable device mount plug with tool-free phase preselection and locating finger

## Accessories:

- Can be combined with the self-supporting specular reflectors SDFAL LED, SDFBL LED and SDFTL LED.

## Miscellaneous:

- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



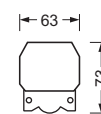
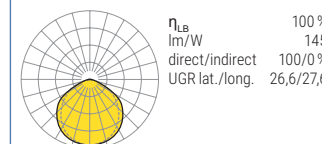
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGVL	1500	LED	1531 x 55 x 43



## Combination

SDT+SDGVL/1500 LED 7000 lm 840



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - general diffuse optically continuous positioning variable IP 20</i>							
SDGVL	1500	LED 4400lm 840	32	vw	ED	1821 0304 150	2,30
					DALI	1821 0306 650	2,50
		LED 5200lm 840	40	vw	ED	1821 0404 150	2,30
					DALI	1821 0406 650	2,50
		LED 7000lm 840	48	vw	ED	1821 4504 150	2,30
					DALI	1821 4506 650	2,50
		vw	EM pack 3h	1821 4574 150	2,80		

## Accessories

Type	Colour	Material	Details	Item number	kg
<i>Lighting technology</i>					
Reflector asymmetrical distribution	SDFAL LED 1500 aes	Al	for SDGVL 1500 LED	1873 6080 100	1 0,37
Reflector, wide distribution	SDFBL LED 1500 aeh	Al	for SDGVL 1500 LED	1873 3080 100	1 0,23
Reflector, narrow distribution	SDFTL LED 1500 aes	Al	for SDGVL 1500 LED	1873 4080 100	1 0,25

## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix for SDT	9200 0267 101	10 0,01



# Device mounts IP20



CE  
IP 20

**Housing:**

- Made from plastic
- Can be shortened to desired length on site
- Blind unit for bridging empty light run units

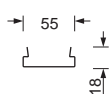
**Details:**

- Accessories for SDT 1500, ATS

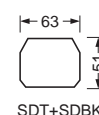


**Dimensions**

Type	Unit	Versions	LxBxH/DxH
SDBK 1500	1500	-	1536 x 55 x 18



**Combination**



**Products**

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>Blank cover of plastic, can be cut to suit</i>							
SDBK 1500	1500	-	-	vw	-	1883 7580 100	0,24



# Device mounts IP20



CE  
IP 20

## Housing:

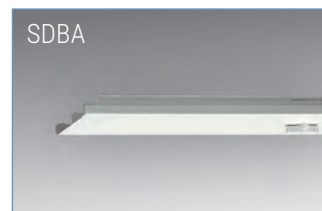
- Pre-galvanised sheet steel surface coated with polyester resin
- Blind unit for bridging empty light run units
- Suitable for mounting light control components such as reflectors, mirrors etc.

## Switching:

- Device mount plug with locating finger for earthing

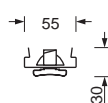
## Details:

- Accessories for SDT 1500



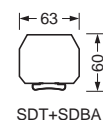
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDBA 1500	1500	-	1536 x 55 x 30



## Combination

SDT+SDBA



SDT+SDBA

## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>Blank cover of metal - fixing reflector</i>							
SDBA 1500	1500	-	-	vw	-	1883 6580 100	0,85

## Replacement parts

Type	Colour	Material	Details	Item number	kg	
<i>Electrical technology</i>						
Contact pin	SDG -Contact 1-Pol	me	St+mix	for SDT	9200 0267 101	10 0,01







### SDBA M5S5



Master unit with built-in control device and sensor for daylight- and presence-dependent control of up to 32 DALI slave units, pre-wired and ready for use via integrated 11-pole connector. Installation height up to 5 m.

System components used: control unit LC-OM DALIeco, daylight and presence sensor LC-OM DALIeco LS/PD LI. Connection of additional sensor units SDBA S5 and SDBA S5D possible. Functions: On/Off, daylight linking, presence function.

See Light Control chapter for description.

Type	LxBxH/DxH	Item number		
SDBA M5S5 1500	1532 x 55 x 50	8418 1018 100	1	1,10

### Accessories


Type	Colour	Material	Details	Item number			
<i>Electrical technology</i>							
Light Control	LC-OM MASTER REMOTE PC KIT	-	-	Remote control for commissioning the DALIeco (M5S5) light control system	8450 1041 200	0,11	1
	LC-OM USER REMOTE	-	-	Remote control for the operation of the DALIeco (M5S5) light control system	8450 1042 100	0,11	1
Sensor	SDBA S5 1500	vw	St.galv.	Analogue sensor extension for SDBA M5S5	8418 1088 100	1,10	1
	SDBA S5D 1500	vw	St.galv.	DALI sensor extension for SDBA M5S5	8418 1088 200	0,95	1





### SDBA M12

Sensor unit with attached motion sensor for daylight linking and presence-dependent control, wired ready for connection via integrated 11-pole plug connector.

System components used: motion sensor LC-BEG PD4-M-DALI-AP. Functions: Presence-dependent control of up to 50 DALI control units. See Light Control chapter for description.

Type	LxBxH/DxH	Item number		
SDBA M12 1500	1532 x 98 x 96	8418 6580 203	1	1,10

### Accessories

Type	Colour	Material	Details	Item number			
<i>Electrical technology</i>							
Light Control	LC-BEG IR-PD-DALI-E	-	-	Remote control and programming tool	8450 6028 100	0,03	1
	LC-BEG IR-RC	-	-	Remote control and programming adapter	8450 6021 100	0,04	1
Sensor	SDBA S17 1500	vw	St.galv.	Extension sensor for SDBA M12, SDBA S20	8418 6580 202	1,10	1









### SDBA S10

Sensor unit with attached motion sensor for daylight linking and presence-dependent switching, wired ready for connection via integrated 11-pole plug connector.

System components used: motion sensor LC-BEG PD4-M-1C-GH-AP  
Functions: presence-dependent switching up to 2300 W,  $\cos\phi=1$   
See Light Control chapter for description.

Type	LxBxH/DxH	Item number		
SDBA S10 1500	1532 x 98 x 96	8418 6580 200	1	1,10

### Accessories

Type	Colour	Material	Details	Item number			
<i>Electrical technology</i>							
Light Control	LC-BEG IR-PD4-GH	-	-	Remote control and programming tool	8450 6006 100	0,04	1
	LC-BEG IR-RC	-	-	Remote control and programming adapter	8450 6021 100	0,04	1
Sensor	SDBA S23 1500	vw	St.galv.	Extension sensor for SDBA S10	8418 6580 201	1,10	1





### SDBA S20

Sensor unit with attached motion sensor for daylight linking and presence-dependent switching, wired ready for connection via integrated 11-pole plug connector.

System components used: motion sensor LC-BEG PD4-M-1C-AP  
Functions: presence-dependent switching up to 2300 W,  $\cos\phi=1$   
See Light Control chapter for description.

Type	LxBxH/DxH	Item number		
SDBA S20 1500	1532 x 100 x 103	8418 6001 200	1	1,10

### Accessories

Type	Colour	Material	Details	Item number			
<i>Electrical technology</i>							
Light Control	LC-BEG IR-PD-E	-	-	Remote control and programming tool	8450 6027 100	0,04	1
	LC-BEG IR-RC	-	-	Remote control and programming adapter	8450 6021 100	0,04	1
Sensor	SDBA S17 1500	vw	St.galv.	Extension sensor for SDBA M12, SDBA S20	8418 6580 202	1,10	1



# Device mounts LED IP40



**Lighting technology SDGV:**

- Direct, general diffuse light distribution
- LED diffuser cover made of polycarbonate

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Lamp Tunable White-version** :

- LED 50000h L80/B10
- CRI ≥ 80 / 3000K-6000K adjustable

**Housing:**

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated twist-locks
- Variably positionable on the mounting rail
- with plastic end face seal
- Suitable for fitting LED light control components

**Switching:**

- 1 Control gear
- Electronic driver
- Variable device mount plug with tool-free phase preselection and locating finger

**Accessories:**

- Can be combined with the self-supporting specular reflectors SDFA LED, SDFB LED, SDFT LED and SDFH LED.

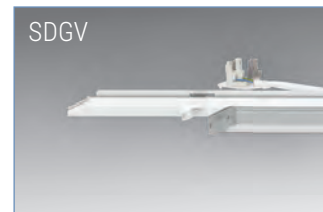
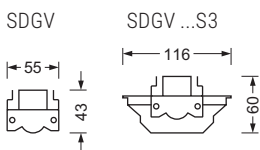
**Miscellaneous:**

- M5S5: master unit with built-in control device and sensor for daylight- and presence control, pre-wired and ready for use; components: control unit LC-OM DALIeco, daylight and presence sensor LC-OM DALIeco LS/PD LI  
Remote control for commissioning and/or operation must be ordered separately
- S3: sensor unit with built-in LC-OM HIGHBAY sensor for presence-based switching, pre-wired and ready to use
- Luminaire in tunable white technology for Human Centric Lighting
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



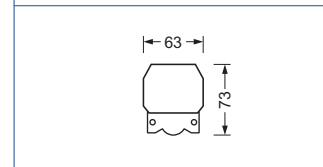
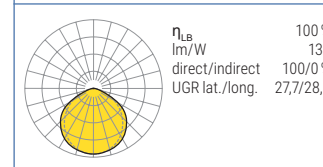
**Dimensions**

Type	Unit	Versions	LxBxH/DxH
SDGV	1500	LED	1531 x 55 x 43



**Combination**

SDT+SDGV/1500 LED 7000 lm 840





## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	
<i>LED - general diffuse positioning variable IP 40</i>							
SDGV	1500	LED 4200lm 840	29	vw	ED	1820 1014 150	2,00
				vw	DALI	1820 1016 650	2,00
		LED 7000lm 840	52	vw	ED	1820 2014 150	2,00
				vw	DALI	1820 2016 650	2,00
				vw	EM pack 3h	1820 2074 150	2,70
				vw	M5S5 DALI	1820 2056 650	2,86
				vw	S3	1820 2084 150	2,88
<i>LED - general diffuse tunable white positioning variable IP 40</i>							
SDGV	1500	LED 5100lm 830-860	53	vw	DALI DT8 <sup>1)</sup>	1820 5206 950	2,00

<sup>1)</sup> : Luminaire with tunable white technology suitable for Human Centric Lighting (HCL).



## Accessories

Type	Colour	Material	Details	Item number	
<i>Lighting technology</i>					
Reflector asymmetrical distribution	SDFA LED 1500 aes	Al	for SDGV/SDGS 1500 LED	1873 6000 100	1 0,17
Reflector, wide distribution	SDFB LED 1500 aes	Al	for SDGV/SDGS 1500 LED	1873 3000 100	1 0,14
Reflector, extremely narrow distribution	SDFH LED 1500 aeh	Al	for SDGV/SDGS 1500 LED	1873 9000 100	1 0,15
Reflector, narrow distribution	SDFT LED 1500 aes	Al	for SDGV/SDGS 1500 LED	1873 4000 100	1 0,14
<i>Electrical technology</i>					
Light Control	LC-OM MASTER REMOTE PC KIT		Remote control for commissioning the DALIeco (M5S5) light control system	8450 1041 200	1 0,11
	LC-OM USER REMOTE		Remote control for the operation of the DALIeco (M5S5) light control system	8450 1042 100	1 0,11

## Replacement parts

Type	Colour	Material	Details	Item number	
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix for SDT	9200 0267 101	10 0,01



# Self-supporting reflectors LED IP20/40



**Lighting technology SDFB:**

- Direct, wide distribution

**Housing:**

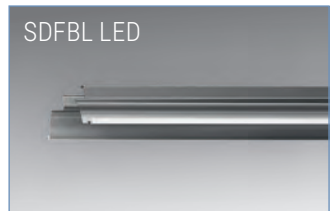
- Mirror made of highly reflective ultra-pure aluminium

**Lighting technology SDFBL:**

- Direct, wide distribution, optically continuous

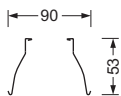
**Housing:**

- Mirror made of highly reflective ultra-pure aluminium, optically continuous without connectors



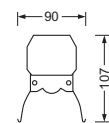
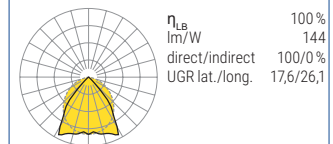
**Dimensions**

Type	Unit	LxBxH/DxH
SDFB 1500	1500	1129 x 90 x 53
SDFBL 1500	1500	1545 x 90 x 53



**Combination**

SDT+SDGVL/1500+SDFBL LED 7000 lm 840



**Products**

Type	Unit	Colour	Details	Item number	kg
<i>Self-supporting mirror reflector direct wide distribution</i>					
SDFB LED 1500	1500	aes	SDGV LED IP40, SDGS LED IP54	1873 3000 100	0,14
<i>Self-supporting mirror reflector direct wide distribution optically continuous</i>					
SDFBL LED 1500	1500	aeh	SDGVL LED IP20	1873 3080 100	0,23

# Self-supporting reflectors LED IP20/40



## Lighting technology SDFA:

- Direct, asymmetrical distribution

## Housing:

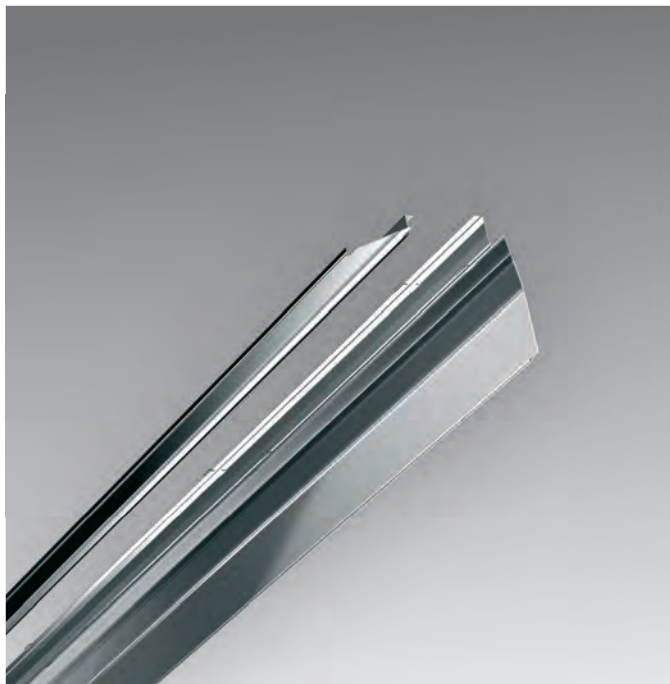
- Mirror made of highly reflective ultra-pure aluminium

## Lighting technology SDFAL:

- Direct, asymmetrical distribution, optically continuous

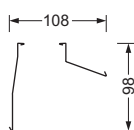
## Housing:

- Mirror made of highly reflective ultra-pure aluminium, optically continuous without connectors



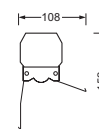
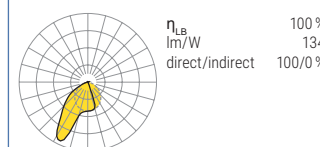
## Dimensions

Type	Unit	LxBxH/DxH
SDFA 1500	1500	1129 x 108 x 98
SDFAL 1500	1500	1545 x 108 x 98



## Combination

SDT+SDGVL/1500+SDFAL LED 5200 lm 840



## Products

Type	Unit	Colour	Details	Item number	kg
<i>Self-supporting mirror reflector direct asymmetrical distribution</i>					
SDFA LED 1500	1500	aes	SDGV LED IP40, SDGS LED IP54	1873 6000 100	0,17
<i>Self-supporting mirror reflector direct asymmetrical distribution optically continuous</i>					
SDFAL LED 1500	1500	aes	SDGVL LED IP20	1873 6080 100	0,37



# Self-supporting reflectors LED IP20/40



**Lighting technology SDFT:**

- Direct narrow distribution

**Housing:**

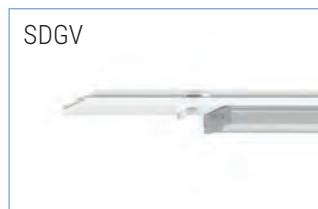
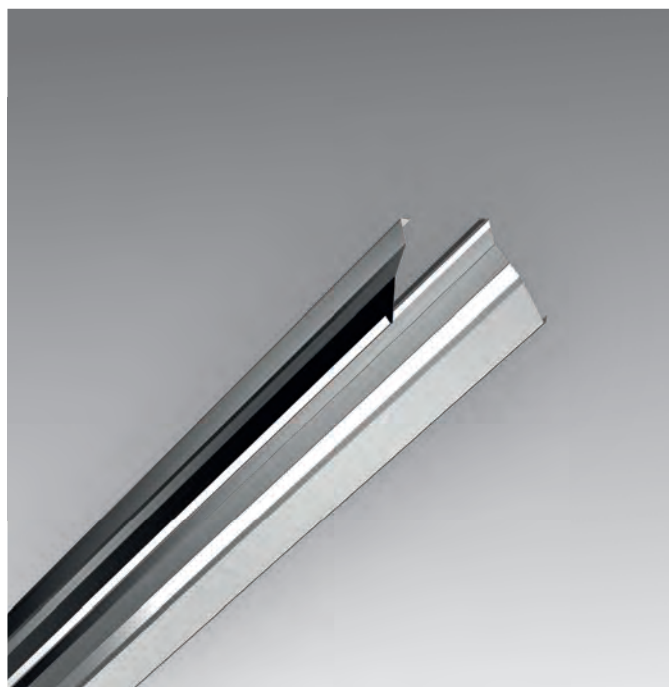
- Mirror made of highly reflective ultra-pure aluminium

**Lighting technology SDFTL:**

- Direct, narrow distribution, optically continuous

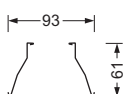
**Housing:**

- Mirror made of highly reflective ultra-pure aluminium, optically continuous without connectors



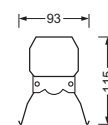
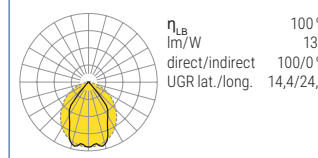
**Dimensions**

Type	Unit	LxBxH/DxH
SDFT 1500	1500	1129 x 93 x 61
SDFTL 1500	1500	1545 x 93 x 61



**Combination**

SDT+SDGV/1500+SDFTL LED 7000 lm 840



LED IP20/40

**Products**

Type	Unit	Colour	Details	Item number	kg
<i>Self-supporting mirror reflector direct narrow distribution</i>					
SDFT LED 1500	1500	aes	SDGV LED IP40, SDGS LED IP54	1873 4000 100	0,14
<i>Self-supporting mirror reflector direct narrow distribution optically continuous</i>					
SDFTL LED 1500	1500	aes	SDGVL LED IP20	1873 4080 100	0,25

# Self-supporting reflectors LED IP40

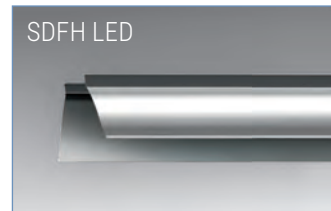
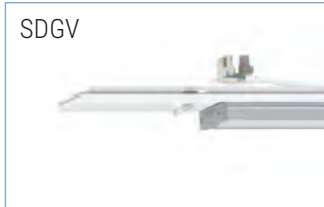


## Lighting technology SDFH:

- Direct, extremely narrow distribution with specific rack illumination

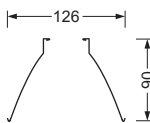
## Housing:

- Mirror made of highly reflective ultra-pure aluminium



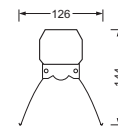
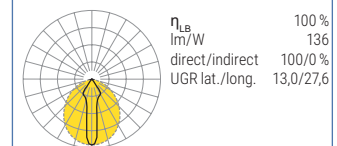
## Dimensions

Type	Unit	LxBxH/DxH
SDFH 1500	1500	1129 x 126 x 90



## Combination

SDT+SDGV/1500+SDFH LED 7000 lm 840



## Products

Type	Unit	Colour	Details	Item number	
<i>Self-supporting mirror reflector direct extremely narrow distribution</i>					
SDFH LED 1500	1500	aeh	SDGV LED IP40, SDGS LED IP54	1873 9000 100	0,15







# LED IP54

REGIOLUX  
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## Device mounts with high protection for special applications

Production halls and workshops with their special operating conditions make increased demands on a rapid mounting system as well. For this Regiolux offers galvanized steel sheet device mounts coated with polyester resin lacquer in the protection class IP54. For workshops with dust exposure such as carpenter's or baker's workshops and similar location with combustible dust special dust-proof units are available with a limited surface temperature rating.



LED IP54



## Components overview

- ▶ Mounting rails
- ▶ Accessories mounting rails LED IP54
- ▶ Device mounts LED IP54
- ▶ Self supporting reflectors

# SDT system LED

Basic system

SDT LED

IP54

Mounting rails



Device mounts

Lens optics

Mirrors self-supporting

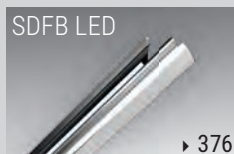
general diffuse or  
diffuse direct/indirect  
distribution



double asymmetrical  
distribution



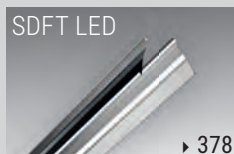
wide distribution



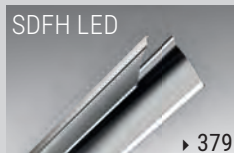
narrow-/wide distribution



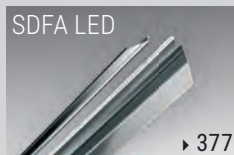
narrow distribution



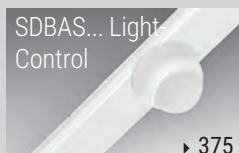
extremely narrow  
distribution  
(High-bay rack mirror)



asymmetrical distribution



Optional  
Light-Control

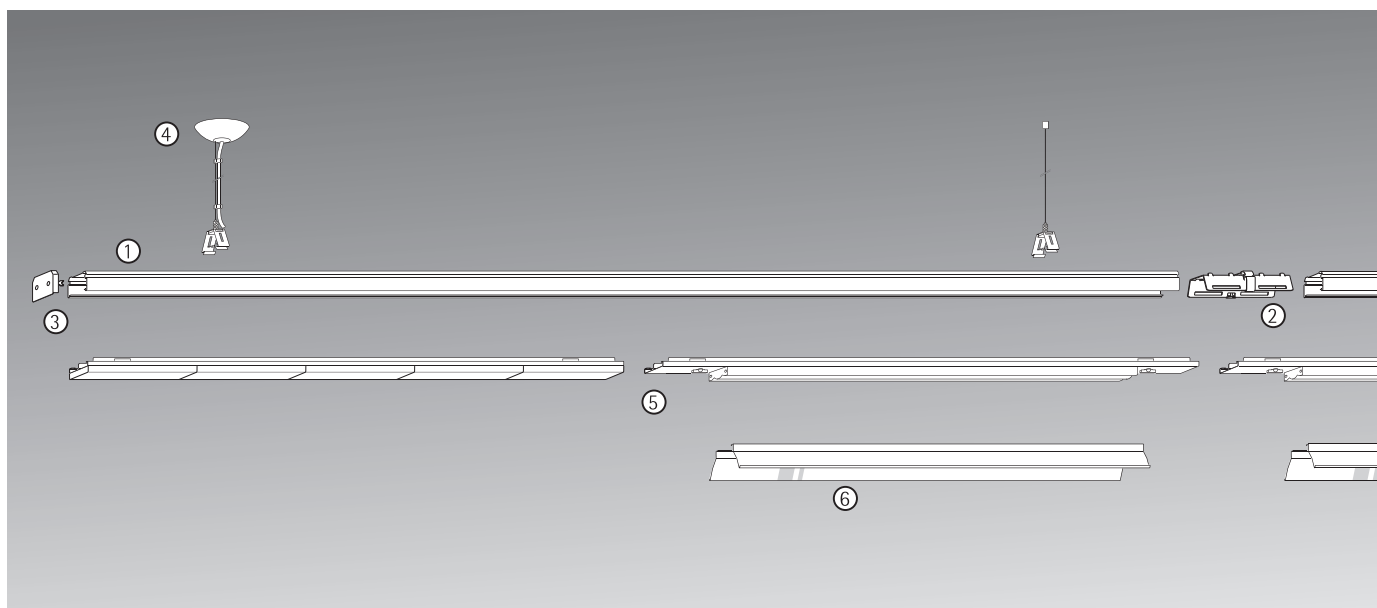








# System components IP54



## LED IP54 Device mounts with integrated lighting technology

Type		e.g. item no	page
SDGSOB LED	Individual.Lens.Optic wide distribution	1861 0204 100	366
SDGSOTB LED	Individual.Lens.Optic narrow-/wide distribution	1863 0204 100	367
⑤ SDGSOT LED	Individual.Lens.Optic narrow distribution	1862 0204 100	368
SDGSOH LED	Individual.Lens.Optic extremely narrow distribution	1864 0304 100	369
SDGSODA LED	Individual.Lens.Optic double asymmetrical distribution	1866 0204 100	370

## LED IP54 Combination SDGS-LED device mounts and light directing

SDGS LED  
Page 372

Legend						⑤
Type	light directing	item no	page	section		combinability
<b>Mirrors self-supporting</b>						
SDFB LED	wide distribution	1873 3000 100	376	/ \		x
SDFT LED	narrow distribution	1873 4000 100	378	/ \		x
⑥ SDFH LED	extremely narrow distribution	1873 9000 100	379	/ \		x
SDFA LED	asymmetrical distribution	1873 6000 100	377	/ \		x

### Rail construction:

1. Choose SDT-rails 1-, 2- or 3-length with appropriate wiring.
2. Mountings as SDH (chain hanger) or SDD (for ceiling), at least 2 pcs. and 2.5 m per one addition required.  
Wider slope distances are also possible with optional accessories.
3. SDTVLS (IP54 connector) to be considered.
4. Select SDTES (rail end faces) per continuous row.
5. Device mounts and any other attachments take into account according to table.

<b>System module</b>	①	SDT mounting rails	> Select rails with 1-, 2- or 3-lengths with the corresponding wiring
	④	Mounting	> Chain hook or ceiling mounting in accordance with the distance between the suspensions
	②	Rail connectors	> Calculate the type which suits the protection class
	③	Rail end faces	> Select the pairs of end pieces which suit the protection class
	⑤	Device mounts/ Blank covers	> Quantities with add. attachment parts, if required, according to table calculation of quantities > Select the type which suit the protection class of the device mount
	⑥	Reflectors	> Reflector in accordance with the planned light distribution

### System components SDT for quantity calculation LED IP54

SDT System-components	1length-mounting rail	2length-mounting rail	3length-mounting rail	connectors	pair end faces	feeder adapter	brackets (ceiling mounting)	+	device mounts	if so +	reflectors	
Legend	①	①	①	②	③		④		⑤		⑥	
<b>LED IP54</b>	Item Designation Item no	SDT 1500/I 5x2,5mm <sup>2</sup> 1826 1580 100	SDT 1500/II 5x2,5mm <sup>2</sup> 1826 2580 100	SDT 1500/III 5x2,5mm <sup>2</sup> 1826 3580 100	SDTVLS 1820 0050100	SDTES 1890 0235100	SDTAF-7 1820 3092100	SDH 1890 0039100 or SDD 1890 0033100	+	SDGS LED	if so +	SDFB LED SDFT LED SDFH LED SDFa LED
Länge [m]	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece
1,54	1	1	0	0	0	1	1	2	1		1	
3,07	2	0	1	0	0	1	1	2	2		2	
4,61	3	0	0	1	0	1	1	2	3		3	
6,14	4	0	2	0	1	1	1	3	4		4	
7,68	5	0	1	1	1	1	1	4	5		5	
9,21	6	0	0	2	1	1	1	4	6		6	
10,75	7	0	2	1	2	1	1	5	7		7	
12,28	8	0	1	2	2	1	1	6	8		8	
13,82	9	0	0	3	2	1	1	6	9		9	
15,35	10	0	2	2	3	1	1	7	10		10	
16,89	11	0	1	3	3	1	1	8	11		11	
18,42	12	0	0	4	3	1	1	8	12		12	
19,96	13	0	2	3	4	1	1	9	13		13	
21,49	14	0	1	4	4	1	1	10	14		14	
23,03	15	0	0	5	4	1	1	10	15		15	
24,56	16	0	2	4	5	1	1	11	16		16	
26,10	17	0	1	5	5	1	1	12	17		17	
27,63	18	0	0	6	5	1	1	12	18		18	
29,17	19	0	2	5	6	1	1	13	19		19	
30,70	20	0	1	6	6	1	1	14	20		20	
32,24	21	0	0	7	6	1	1	14	21		21	
33,77	22	0	2	6	7	1	1	15	22		22	
35,31	23	0	1	7	7	1	1	16	23		23	
36,84	24	0	0	8	7	1	1	16	24		24	
38,38	25	0	2	7	8	1	1	17	25		25	
39,91	26	0	1	8	8	1	1	18	26		26	
41,45	27	0	0	9	8	1	1	18	27		27	
42,98	28	0	2	8	9	1	1	19	28		28	
44,52	29	0	1	9	9	1	1	20	29		29	
46,05	30	0	0	10	9	1	1	20	30		30	



# Mounting rails LED IP54



Ⓢ Ⓜ Ⓜ CE IP 54

**Housing:**

- Mounting rail of roll-formed, torsionally stiff sheet steel, pregalvanised
- Suitable for IP54
- Flat ribbon cabling installed and wired on rapid mounting socket unit at the factory

**Miscellaneous:**

- Special versions of device mounts or device mounts with light control components are needed to use the mounting rail wired with 11 poles

**Accessories:**

- To be equipped with either LED, T5 or T8 device mounts. Connection and assembly accessories as well as rail end faces and connectors to be ordered separately.

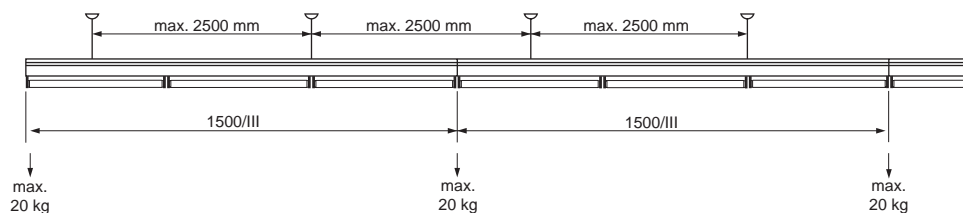
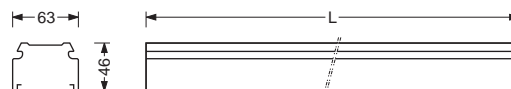
**Mounting instructions:**

- The suspensions are designed for vertical loading
- For other arrangements or suspension spacing >2,5 m, approval and/or accessories are required



**Dimensions**

Type	Unit	LxBxH/DxH
SDT 1500/I	1500	1535 x 63 x 46
SDT 1500/II	1500	3070 x 63 x 46
SDT 1500/III	1500	4605 x 63 x 46



**Products**

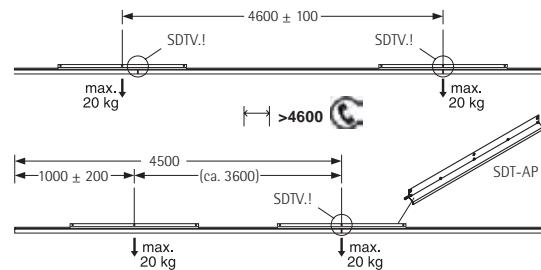
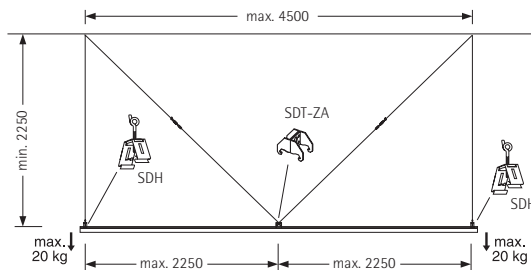
Type	Unit	Wiring	Colour	/I		/II		/III	
				Item number	kg	Item number	kg	Item number	kg
SDT	1500	5x1,5 qmm	vw	1825 1580 100	1,60	1825 2580 100	3,20	1825 3580 100	4,60
			wa	1825 1580 105	1,60	1825 2580 105	3,20	1825 3580 105	4,60
		5x2,5 qmm	vw	1826 1580 100	1,65	1826 2580 100	3,30	1826 3580 100	4,80
			wa	1826 1580 105	1,65	1826 2580 105	3,30	1826 3580 105	4,80
		7x2,5 qmm	vw	1828 1580 100	1,75	1828 2580 100	3,50	1828 3580 100	5,20
			wa	1828 1580 105	1,75	1828 2580 105	3,50	1828 3580 105	5,20
7x2,5/4x1,5 qmm	vw	1830 1580 100	1,92	1830 2580 100	3,73	1830 3580 100	5,80		



# Accessories mounting rail SDT IP54



For mounting distance  
> 2500 mm:



## Accessories

	Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>							
Socket/plug combined	SDTA F-7	ce	Polymer	7pol., 5/7x1.5-2.5mm <sup>2</sup> for SDT	1820 3092 100	1	0,01
	SDTA M-7	ce	Polymer	7pol., 5/7x1.5-2.5mm <sup>2</sup> for SDT	1820 3090 100	1	0,01
	SDTA F-11	ce	Polymer	11pol., 4x1.5mm <sup>2</sup> + 7x1.5-2.5mm <sup>2</sup> for SDT	1820 2092 100	1	0,01
	SDTA M-11	ce	Polymer	11pol., 4x1.5mm <sup>2</sup> + 7x1.5-2.5mm <sup>2</sup> for SDT	1820 2090 100	1	0,01
<i>Protection</i>							
Protective cover IP54	SDTES	vw	PC	for SDT IP54	1890 0235 100	2	0,02
<i>Mounting</i>							
Single wire suspension	SDCS	ws	Stainless steel+mix	l=2000mm for SDT	1890 0034 100	1	0,07
	SDCSE	ws	Stainless steel+mix	Canopy D=123mm, rope D=1.5mm, L=2200mm, 3x1.5mm <sup>2</sup> for SDT	1890 0044 100	1	0,30
Chain suspension	KK	me	St	Chain l=30m, for SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1	4,60
	KP 80	me	St+PC	l=800mm for suspended luminaires	9282 9080 100	1	0,27
	SDH	me	Inox	for SDT, ATS at chain	1890 0039 100	1	0,04
	SDT-AP	me	St	for SDT	1890 0022 100	1	0,93
	SDT-ZA	me	St	for SDT	6820 9300 110	1	0,20
Tubular pendant suspension	RP 50	ws	St+PC	d=16mm, M13, l=500mm for suspended luminaires	9280 9050 100	1	0,25
	RP 80	ws	St+PC	d=16mm, M13, l=800mm for suspended luminaires	9280 9080 100	1	0,33
	RP 100	ws	St+PC	d=16mm, M13, l=1000mm for suspended luminaires	9280 9100 100	1	0,40
	SDRP	me	Stainless steel+mix	for SDT at tubular pendant RP	1890 0054 100	1	0,02
Mounting clip	SDCT	me	Inox	for SDT at visible T-rail	1890 0042 100	1	0,03
	SDD	me	Inox	for SDT at ceiling	1890 0033 100	1	0,01
<i>Structure</i>							
Mounting rail connector	SDTVLS	me	St.galv.	detachable for SDT IP54	1820 0050 100	1	0,25





# Device mounts LED IP54



### Lighting technology SDGSOB:

- Direct, wide light distribution using Individual.Lens.Optic made of PMMA plastic
- Continuous optics
- Good glare limitation

### Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

### Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated snap-in catches
- With integrated seal to mounting rail and plastic seal to end faces

### Switching:

- 1 Control gear
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

### Miscellaneous:

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the end of the chapter



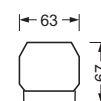
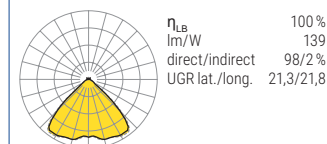
### Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGSOB	1500	LED	1531 x 55 x 37



### Combination

SDT+SDGSOB/1500 LED 8000 lm 840



### Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg		
<i>LED - Individual.Lens.Optic direct wide distribution optically continuous IP 54</i>									
SDGSOB	1500	LED 6000lm 840	39	vw	ED	1861 0204 100	1,90		
					DALI	1861 0206 600	1,90		
					EM pack 3h	1861 0274 100	2,60		
					EM pack 3h DALI	1861 0276 600	2,60		
	LED 8000lm 840	56	vw	ED	1861 0304 100	1,90			
				DALI	1861 0306 600	1,90			
				LED 10000lm 840	75	vw	ED	1861 0404 100	1,90
							DALI	1861 0406 600	1,90

### Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01



# Device mounts LED IP54



## Lighting technology SDGSOTB:

- Direct, narrow/wide light distribution using Individual.Lens.Optic made of PMMA plastic
- Continuous optics
- Very good glare limitation

## Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated snap-in catches
- With integrated seal to mounting rail and plastic seal to end faces

## Switching:

- 1 Control gear
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

## Miscellaneous:

- Other light colours, lighting technologies, luminous fluxes or emergency lighting on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the end of the chapter



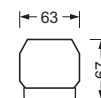
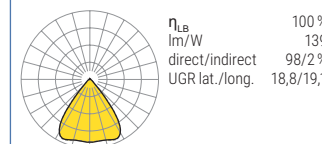
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGSOTB	1500	LED	1531 x 55 x 37



## Combination

SDT+SDGSOTB/1500 LED 8000 lm 840

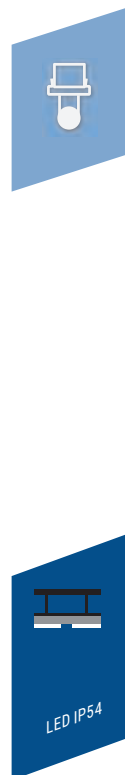


## Products

Type	Unit	Lamps	$P_{sys}$ [W]	Colour	Ballast	Item number	kg
<i>LED - Individual.Lens.Optic direct narrow/wide distribution optically continuous IP 54</i>							
SDGSOTB	1500	LED 6000lm 840	39	vw	ED	1863 0204 100	1,90
				vw	DALI	1863 0206 600	1,90
	LED 8000lm 840	56	vw	ED	1863 0304 100	1,90	
			vw	DALI	1863 0306 600	1,90	
	LED 10000lm 840	75	vw	ED	1863 0404 100	1,90	
			vw	DALI	1863 0406 600	1,90	

## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG -Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01



# Device mounts LED IP54



### Lighting technology SDGSOT:

- Direct, narrow light distribution using Individual.Lens.Optic made of PMMA plastic
- Continuous optics
- Good glare limitation

### Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

### Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated snap-in catches
- With integrated seal to mounting rail and plastic seal to end faces

### Switching:

- 1 Control gear
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

### Miscellaneous:

- Other light colours, lighting technologies, luminous fluxes or emergency lighting on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the end of the chapter



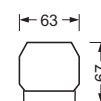
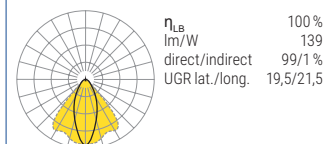
### Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGSOT	1500	LED	1531 x 55 x 37



### Combination

SDT+SDGSOT/1500 LED 8000 lm 840



### Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Individual.Lens.Optic direct narrow distribution optically continuous IP 54</i>							
SDGSOT	1500	LED 6000lm 840	39	vw	ED	1862 0204 100	1,90
				vw	DALI	1862 0206 600	1,90
	LED 8000lm 840	56	vw	ED	1862 0304 100	1,90	
			vw	DALI	1862 0306 600	1,90	
			vw	ED	1862 0404 100	1,90	
			vw	DALI	1862 0406 600	1,90	

### Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01



# Device mounts LED IP54



## Lighting technology SDGSOH:

- Direct, extremely narrow light distribution using Individual.Lens.Optic made of PMMA plastic
- Continuous optics
- Very good glare limitation

## Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated snap-in catches
- With integrated seal to mounting rail and plastic seal to end faces

## Switching:

- 1 Control gear
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

## Miscellaneous:

- Other light colours, lighting technologies or luminous fluxes on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the end of the chapter



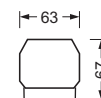
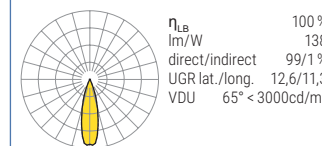
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGSOH	1500	LED	1531 x 55 x 37



## Combination

SDT+SDGSOH/1500 LED 8000 lm 840



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Individual.Lens.Optic direct extremely narrow distribution optically continuous IP 54</i>							
SDGSOH	1500	LED 8000lm 840	56	vw	ED	1864 0304 100	1,90
					DALI	1864 0306 600	1,90
					EM pack 3h	1864 0374 100	2,60
					EM pack 3h DALI	1864 0376 600	2,60
					LED 10000lm 840	75	vw
				vw	DALI	1864 0406 600	1,90

## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01



# Device mounts LED IP54



## Lighting technology SDGSODA:

- Direct, double asymmetric light distribution using Individual.Lens.
- Optic made of PMMA plastic
- Continuous optics
- Good glare limitation

## Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated snap-in catches
- With integrated seal to mounting rail and plastic seal to end faces

## Switching:

- 1 Control gear
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

## Miscellaneous:

- Other light colours, lighting technologies, luminous fluxes or emergency lighting on request
- Detailed information on the ambient temperature ranges (Ta) can be found at the end of the chapter



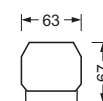
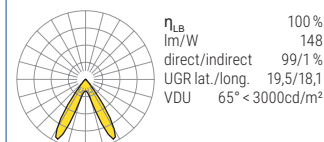
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGSODA	1500	LED	1531 x 55 x 37



## Combination

SDT+SDGSODA/1500 LED 6000lm 840



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>LED - Individual.Lens.Optic direct Batwing distribution optically continuous IP 54</i>							
SDGSODA	1500	LED 6000lm 840	39	vw	ED	1866 0204 100	1,90
				vw	DALI	1866 0206 600	1,90

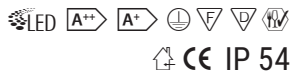
## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01





# Device mounts LED IP54



**Lighting technology SDGS:**

- Direct, general diffuse light distribution
- LED diffuser cover made of polycarbonate

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Lamp Tunable White Version**

- LED 50000h L80/B10
- CRI ≥ 80 / 3000K-6000K adjustable

**Housing:**

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated twist-locks
- With integrated seal to mounting rail and plastic seal to end faces
- Suitable for fitting LED light control components

**Switching:**

- 1 Control gear
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

**Accessories:**

- Can be combined with the self-supporting specular reflectors S DFA LED, S DFB LED, S DFT LED and S DFH LED.

**Miscellaneous:**

- Luminaire in tunable white technology for Human Centric Lighting
- Detailed information on the ambient temperature ranges (Ta) can be found at the start of the chapter



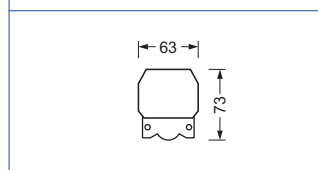
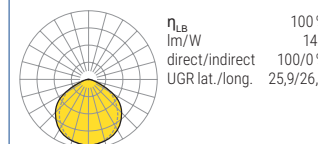
**Dimensions**

Type	Unit	Versions	LxBxH/DxH
SDGS	1500	LED	1531 x 55 x 43



**Combination**

SDT+SDGS/1500 LED 4200 lm 840





**Products**

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	
<i>LED - general diffuse IP 54</i>							
SDGS	1500	LED 4200lm 840	29	vw	ED	1846 1014 100	2,00
					DALI	1846 1016 600	2,00
		LED 7000lm 840	52	vw	ED	1846 2014 100	2,00
					DALI	1846 2016 600	2,00
					EM pack 3h	1846 2074 100	2,70
<i>LED - general diffuse tunable white IP 54</i>							
SDGS	1500	LED 5100lm 830-860	53	vw	DALI DT8 <sup>1)</sup>	1846 5206 900	2,00



<sup>1)</sup> : Luminaire with tunable white technology suitable for Human Centric Lighting (HCL).



## Accessories

Type	Colour	Material	Details	Item number		
<i>Lighting technology</i>						
Reflector, asymmetrical distribution	S DFA LED 1500	aes	Al	for SDGV/SDGS 1500 LED	1873 6000 100	1 0,17
Reflector, wide distribution	S DFB LED 1500	aes	Al	for SDGV/SDGS 1500 LED	1873 3000 100	1 0,14
Reflector, extremely narrow distribution	S DFH LED 1500	aeh	Al	for SDGV/SDGS 1500 LED	1873 9000 100	1 0,15
Reflector, narrow distribution	S DFT LED 1500	aes	Al	for SDGV/SDGS 1500 LED	1873 4000 100	1 0,14

## Replacement parts

Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>						
Contact pin	SDG -Contact 1-Pol	me	St+mix	for SDT	9200 0267 101	10 0,01



LED IP54



# Device mounts IP54



CE  
IP 54

**Housing:**

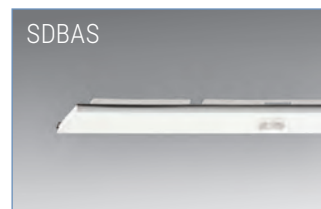
- Pre-galvanised sheet steel surface coated with polyester resin
- Blind unit for bridging empty light run units
- Suitable for mounting light control components such as reflectors, mirrors etc.
- With integrated seal to mounting rail and plastic seal to end faces

**Switching:**

- Device mount plug with locating finger for earthing

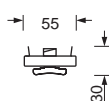
**Details:**

- Accessories for SDT IP54 1500

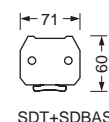


**Dimensions**

Type	Unit	Versions	LxBxH/DxH
SDBAS 1500	1500	-	1536 x 55 x 30



**Combination**



**Products**

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>IP54 blank cover of metal - fixing reflector</i>							
SDBAS 1500	1500	-	-	vw	-	1882 6580 100	0,89

**Replacement parts**

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01



# Sensor device mounts IP54



## SDBAS M12

Sensor unit with attached motion sensor for daylight linking and presence-dependent control, wired ready for connection via integrated 11-pole plug connector.

System components used: motion sensor LC-BEG PD4-M-DALI-AP  
Functions: presence-dependent control of up to 50 DALI nodes  
See Light Control chapter for description.

Type	LxBxH/DxH	Item number		
SDBAS M12 1500	1536 x 102 x 105	8418 1027 205	1	1,20

### Accessories

Type	Colour	Material	Details	Item number			
<i>Electrical technology</i>							
Light Control	LC-BEG IR-PD-DALI-E	-	-	Remote control and programming tool	8450 6028 100	1	0,03
	LC-BEG IR-RC	-	-	Remote control and programming adapter	8450 6021 100	1	0,04



## SDBAS S10

Sensor unit with attached motion sensor for daylight-and presence-dependent switching, wired ready for connection via integrated 11-pole plug connector, with oval, longitudinal detection range.

System components used: motion sensor LC-BEG PD4-M-1C-GH-AP  
Functions: presence-dependent switching up to 2300 W,  $\cos\phi=1$   
See Light Control chapter for description.

Type	LxBxH/DxH	Item number		
SDBAS S10 1500	1536 x 102 x 105	8418 1027 203	1	1,20

### Accessories

Type	Colour	Material	Details	Item number			
<i>Electrical technology</i>							
Light Control	LC-BEG IR-PD4-GH	-	-	Remote control and programming tool	8450 6006 100	1	0,04
	LC-BEG IR-RC	-	-	Remote control and programming adapter	8450 6021 100	1	0,04



## SDBAS S20

Sensor unit with attached motion sensor for daylight linking and presence-dependent switching, wired ready for connection via integrated 11-pole plug connector.

System components used: motion sensor LC-BEG PD4-M-1C-AP  
Functions: presence-dependent switching up to 2300 W,  $\cos\phi=1$   
See Light Control chapter for description.

Type	LxBxH/DxH	Item number		
SDBAS S20 1500	1536 x 102 x 105	8418 1027 204	1	1,20

### Accessories

Type	Colour	Material	Details	Item number			
<i>Electrical technology</i>							
Light Control	LC-BEG IR-PD-E	-	-	Remote control and programming tool	8450 6027 100	1	0,04
	LC-BEG IR-RC	-	-	Remote control and programming adapter	8450 6021 100	1	0,04



LED IP54

# Self-supporting reflectors LED IP54

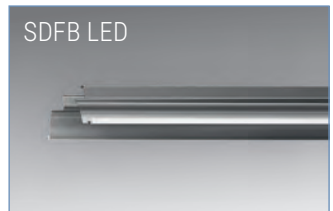
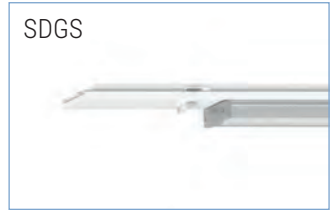


**Lighting technology SDFB:**

- Direct, wide distribution

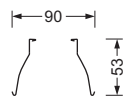
**Housing:**

- Mirror made of highly reflective ultra-pure aluminium



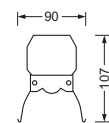
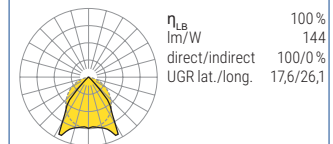
**Dimensions**

Type	Unit	LxBxH/DxH
SDFB 1500	1500	1129 x 90 x 53



**Combination**

SDT+SDGS/1500+SDFB LED 7000 lm 840



**Products**

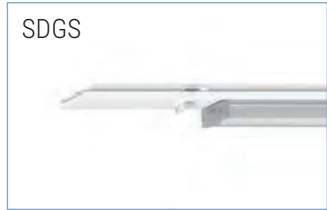
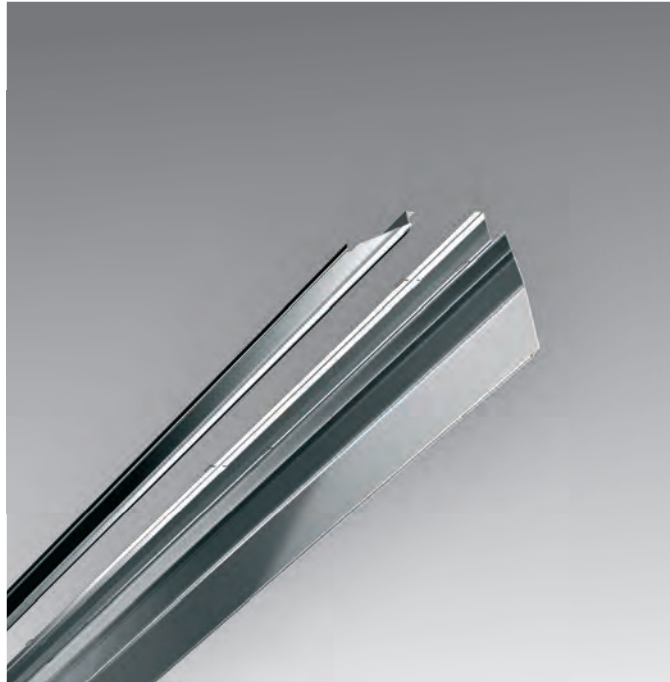
Type	Unit	Colour	Details	Item number	kg
<i>Self-supporting mirror reflector direct wide distribution</i>					
SDFB LED 1500	1500	aes	SDGV LED IP40, SDGS LED IP54	1873 3000 100	0,14



# Self-supporting reflectors LED IP54

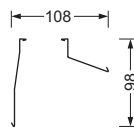


- Lighting technology SDFA:**
- Direct, asymmetrical distribution
- Housing:**
- Mirror made of highly reflective ultra-pure aluminium



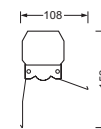
## Dimensions

Type	Unit	LxBxH/DxH
SDFA 1500	1500	1129 x 108 x 98



## Combination

SDT+SDGS/1500+SDFA LED 4200 lm 840



## Products

Type	Unit	Colour	Details	Item number	
<i>Self-supporting mirror reflector direct asymmetrical distribution</i>					
SDFA LED 1500	1500	aes	SDGV LED IP40, SDGS LED IP54	1873 6000 100	0,17



# Self-supporting reflectors LED IP54

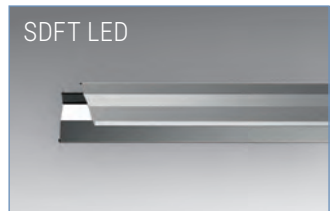
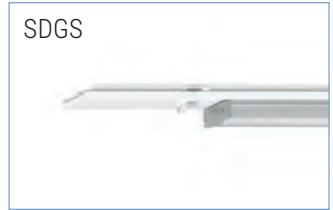
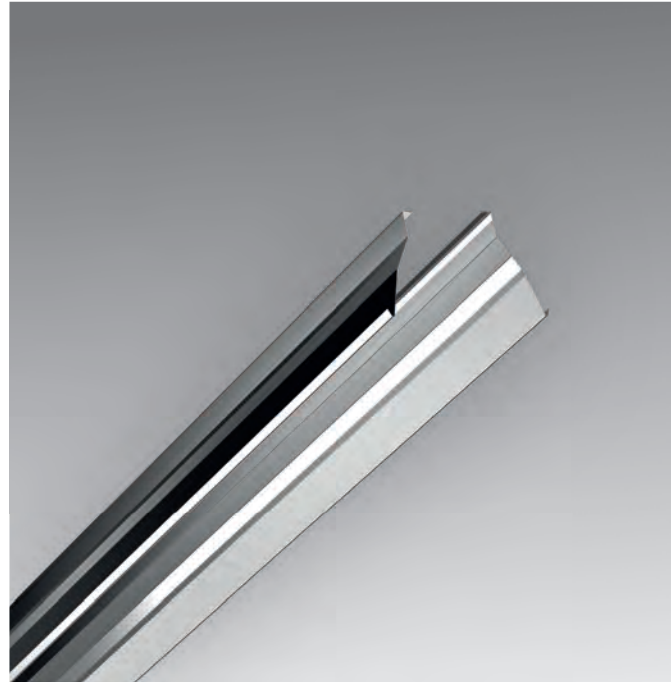


**Lighting technology SFT:**

- Direct narrow distribution

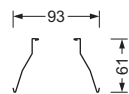
**Housing:**

- Mirror made of highly reflective ultra-pure aluminium



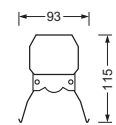
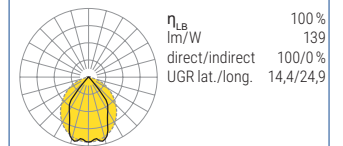
**Dimensions**

Type	Unit	LxBxH/DxH
SDFT 1500	1500	1129 x 93 x 61



**Combination**

SDT+SDGS/1500+SFT LED 4200 lm 840



**Products**

Type	Unit	Colour	Details	Item number	kg
<i>Self-supporting mirror reflector direct narrow distribution</i>					
SDFT LED 1500	1500	aes	SDGV LED IP40, SDGS LED IP54	1873 4000 100	0,14



# Self-supporting reflectors LED IP54

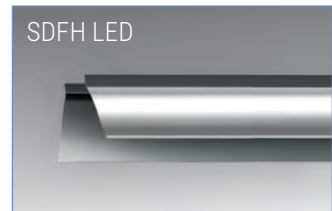
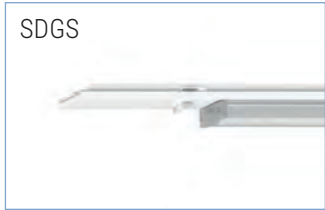


## Lighting technology SDFH:

- Direct, extremely narrow distribution with specific rack illumination

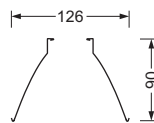
## Housing:

- Mirror made of highly reflective ultra-pure aluminium



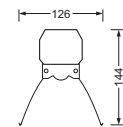
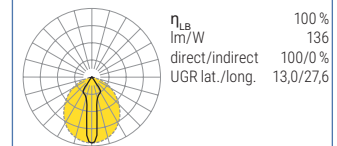
## Dimensions

Type	Unit	LxBxH/DxH
SDFH 1500	1500	1129 x 126 x 90



## Combination

SDT+SDGS/1500+SDFH LED 7000 lm 840



## Products

Type	Unit	Colour	Details	Item number	
<i>Self-supporting mirror reflector direct extremely narrow distribution</i>					
SDFH LED 1500	1500	aeH	SDGV LED IP40, SDGS LED IP54	1873 9000 100	0,15





# T5/T8 IP

# 20/54



## Many tasks, one solution: the SDT T5/T8 quick-mount system

Quick-fit mounting systems have a wide range of applications and every application has its own requirements. It is therefore reassuring to know that these requirements can be mastered with the SDT system. The Regiolux SDT modular system is always ready with the right answer whatever the challenge: whether that is in installation, lumen package, lighting technology, design or controls. In addition, there is also the possibility to leverage the last bit of potential by means of specific modifications in order to precisely adapt our SDT system to customer-specific requirements.



T5/T8 IP20/54

### Components overview

- ▶ Mounting rails
- ▶ Accessories mounting rails IP20, IP54
- ▶ Device mounts T5/T8 IP20
- ▶ Device mounts T5/T8 IP54
- ▶ Self-supporting reflectors
- ▶ Reflectors and reflector inserts



# SDT system T5/T8 IP20/54

**Basic system** **SDT T5** **IP20**

Mounting rails



Device mounts



Optional  
Light-Control



**Light directing component** **Reflector based** **Self-supporting** **Without**

Reflectors



Highly specular  
darklight parabolic louvre

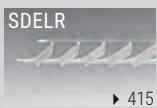
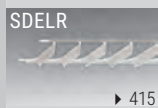


Satin matt parabolic louvre

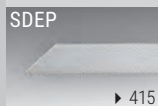


Matt parabolic louvre

White cross-blade louvre



Clear prismatic diffuser



Translucent diffuser



Mirror wide distribution



Mirror wide distribution  
direct/indirect



Mirror narrow distribution



Mirror narrow/wide  
distribution  
direct/indirect



Mirror asymmetrical  
distribution








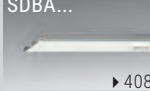
High-bay rack mirrors









Wire protective cage










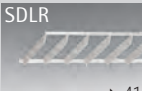


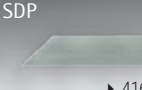
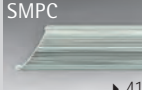




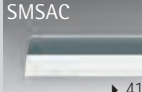



**SDT T8** **IP20**

 ▶ 393			
 ▶ 402	 ▶ 403	 ▶ 405	 ▶ 405
 ▶ 408			


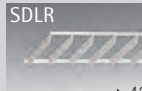







**SDT T5/T8** **IP54**

 ▶ 393			
 ▶ 421	 ▶ 422	 ▶ 423	 ▶ 424 ▶ 425
 ▶ 427			

**Reflector based** **Self-supporting**

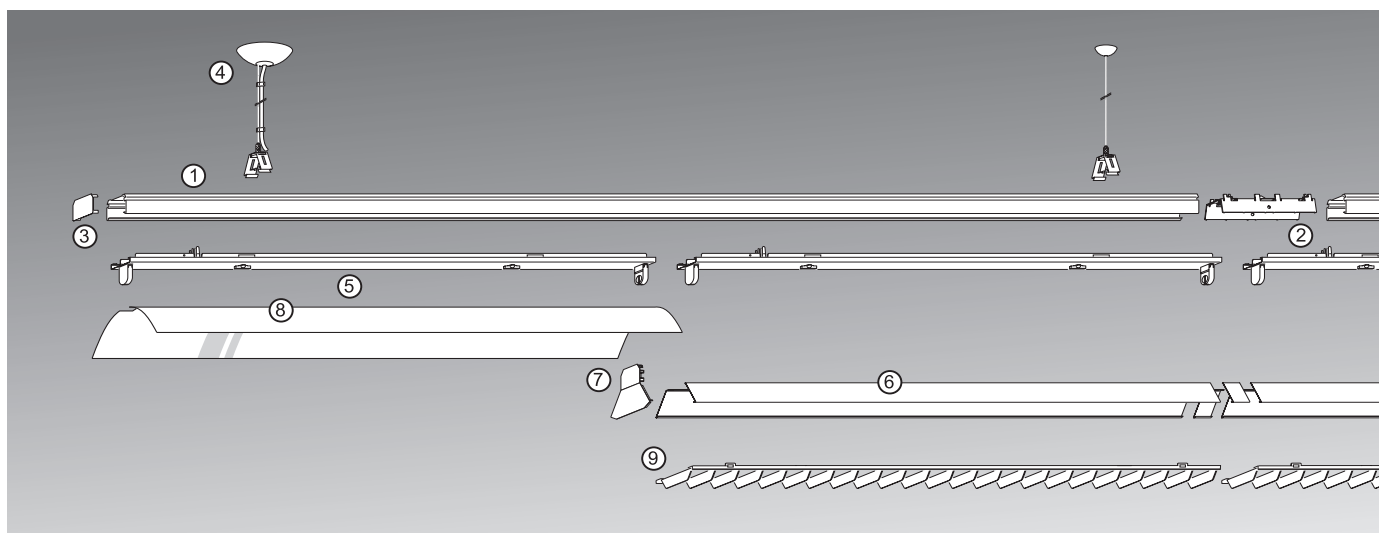
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 ▶ 417	 ▶ 419	 ▶ 412	
		 ▶ 412	
	 ▶ 419	 ▶ 412	
		 ▶ 412	
		 ▶ 402	

**Reflector based** **Self-supporting** **Without**

 ▶ 430		
 ▶ 430		
 ▶ 430		
 ▶ 431	 ▶ 428	
	 ▶ 428	
	 ▶ 428	
	 ▶ 428	
	 ▶ 421	



# System components SDT T5 IP20



## T5 IP20

### Combination SDG/SDGV-T5 device mount and light directing

SDG/SDGV  
1x35/49/80  
page 398/400

SDG/SDGV  
2x35/49  
page 398/400

#### Legend

Type	light directing	item no	page	section	combinability
<b>Mirrors self-supporting</b>					
	SDFB T5 direct wide distribution	1873 3950 100	412		X X
	SDFBI T5 direct/indirect wide distribution	1873 2950 100	410		X X
⑧	SDFK T5 direct/indirect narrow-/wide distribution	1873 7951 100	410		X
	SDFT T5 direct narrow distribution	1873 4950 100	411		X X
	SDFAT5 direct asymmetrical distribution	1873 6950 100	411		X X
	SDFHT5 direct extremely narrow distribution	1873 9950 100	411		X X
<b>Reflectors based</b>					
⑥	SDE Reflector small direct wide distribution	1870 5015 100	415		X X
	SDEI Reflector small direct/indirect wide distribution	1870 4015 100	415		X X
	+ Insert in Reflector				
⑨	SDELR Cross-blade louvre for reflector SDE or SDEI	1871 5015 100	415		X X
	SDEP Pane for reflector SDE	1877 5015 100	415		X X
⑥	SDEC Reflector comfort direct wide distribution	1870 6015 100	414		X X
	+ Insert in Reflector				
	SDECD Louvre high specular for reflector SDEC	1886 6015 170	414		X X
⑨	SDECX Louvre silk matt for reflector SDEC	1886 6015 160	414		X X
	SDECG Pane satined for reflector SDEC	1877 6015 100	414		X X

#### Rail construction:

- SDT-rails 1-, 2- or 3-length with appropriate wiring.
- Mountings as SDH (chain hanger) or SDD (for ceiling), at least 2 pcs. and 2.5 m per one addition required.  
Wider slope distances are also possible with optional accessories.
- SDTV/SDTVL (connector) to be considered.
- Select SDTE (rail end faces) or SDECE in reflectors per continuous row.
- Device mounts and any other attachments take into account according to table.

#### Colour code SDT

	Mounting rails
	Device mounts/blank covers
	Light directing/reflectors
	Reflector inserts



<b>System module</b>	①	SDT mounting rails	> Select rails with 1-, 2- or 3-lengths with the corresponding wiring
	④	Mounting	> Chain hook or ceiling mounting in accordance with the distance between the suspensions
	②	Rail connectors	> Calculate the type which suits the protection class
	③	Rail end faces	> Select the pairs of end pieces which suit the protection class
	⑦	Reflector end faces	> Select the pairs of end pieces which suit the reflector
	⑤	Device mounts/ Blank covers	> Quantities with add. attachment parts, if required, according to table calculation of quantities > Select the type which suit the protection class of the device mount
	⑥⑧	Self-supporting reflector/reflectors	> Reflector in accordance with the planned light distribution
	⑨	Reflector inserts	> Light directing/louvre in accordance with the planned glare limitation

### System components SDT for quantity calculation IP20

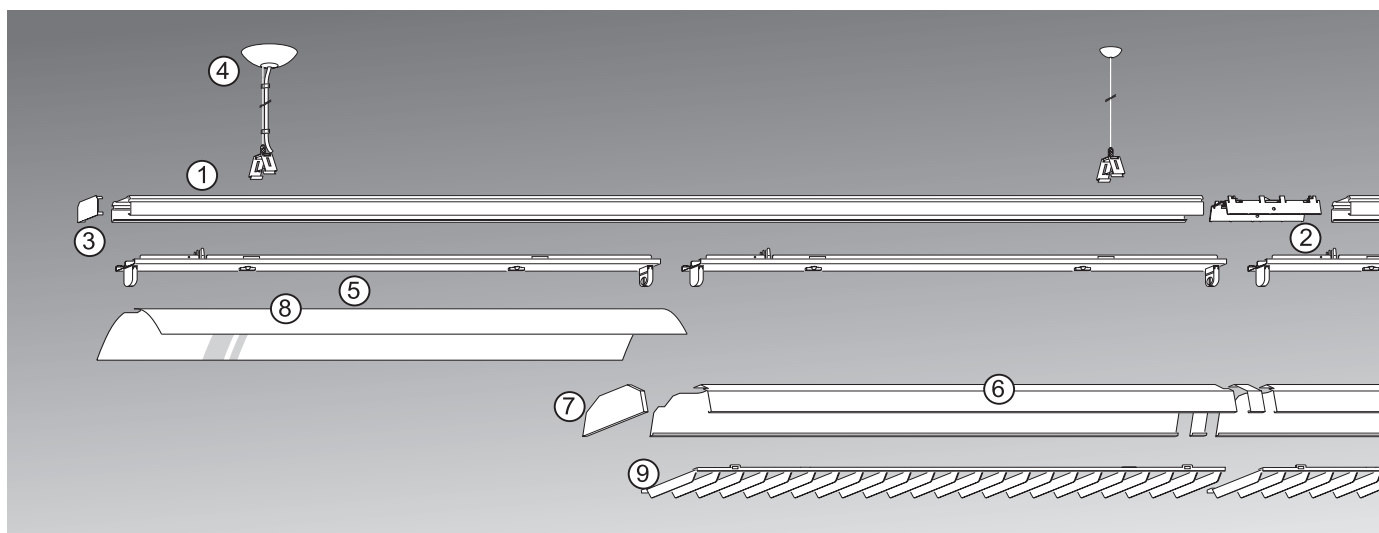
SDT System-components	1length-mounting rail	2length-mounting rail	3length-mounting rail	connectors	pair end faces	feeder adapter	brackets (ceiling mounting)	+ device mounts	if SO +	self-supporting reflectors/reflectors	if SO +	louvres/pane	
Legend	①	①	①	②	③ ⑦		④	⑤		⑥ ⑧		⑨	
<b>T5 IP20</b>	Item Designation Item no	SDT 1500/I 5x2,5mm <sup>2</sup> 1826 1580 100	SDT 1500/II 5x2,5mm <sup>2</sup> 1826 2580 100	SDT 1500/III 5x2,5mm <sup>2</sup> 1826 3580 100	SDTV 1890 0020 100 or SDTVL 1820 0031 100	SDTE 1890 0231 100 or SDECE 1891 0532 100 (at reflektor-inserts)	SDAF-7 1820 3092 100	SDH 1890 0039 100 or SDD 1890 0033 100	+ SDB. SDG...	if SO +	SDF.. T5 SDE..	if SO +	SDE..
Length [m]	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece
1,54	1	1	0	0	0	1	1	2	1	1	1	1	
3,07	2	0	1	0	0	1	1	2	2	2	2	2	
4,61	3	0	0	1	0	1	1	2	3	3	3	3	
6,14	4	0	2	0	1	1	1	3	4	4	4	4	
7,68	5	0	1	1	1	1	1	4	5	5	5	5	
9,21	6	0	0	2	1	1	1	4	6	6	6	6	
10,75	7	0	2	1	2	1	1	5	7	7	7	7	
12,28	8	0	1	2	2	1	1	6	8	8	8	8	
13,82	9	0	0	3	2	1	1	6	9	9	9	9	
15,35	10	0	2	2	3	1	1	7	10	10	10	10	
16,89	11	0	1	3	3	1	1	8	11	11	11	11	
18,42	12	0	0	4	3	1	1	8	12	12	12	12	
19,96	13	0	2	3	4	1	1	9	13	13	13	13	
21,49	14	0	1	4	4	1	1	10	14	14	14	14	
23,03	15	0	0	5	4	1	1	10	15	15	15	15	
24,56	16	0	2	4	5	1	1	11	16	16	16	16	
26,10	17	0	1	5	5	1	1	12	17	17	17	17	
27,63	18	0	0	6	5	1	1	12	18	18	18	18	
29,17	19	0	2	5	6	1	1	13	19	19	19	19	
30,70	20	0	1	6	6	1	1	14	20	20	20	20	
32,24	21	0	0	7	6	1	1	14	21	21	21	21	
33,77	22	0	2	6	7	1	1	15	22	22	22	22	
35,31	23	0	1	7	7	1	1	16	23	23	23	23	
36,84	24	0	0	8	7	1	1	16	24	24	24	24	
38,38	25	0	2	7	8	1	1	17	25	25	25	25	
39,91	26	0	1	8	8	1	1	18	26	26	26	26	
41,45	27	0	0	9	8	1	1	18	27	27	27	27	
42,98	28	0	2	8	9	1	1	19	28	28	28	28	
44,52	29	0	1	9	9	1	1	20	29	29	29	29	
46,05	30	0	0	10	9	1	1	20	30	30	30	30	
47,59	31	0	2	9	10	1	1	21	31	31	31	31	
49,12	32	0	1	10	10	1	1	22	32	32	32	32	
50,66	33	0	0	11	10	1	1	22	33	33	33	33	
52,19	34	0	2	10	11	1	1	23	34	34	34	34	
53,73	35	0	1	11	11	1	1	24	35	35	35	35	



T5/T8 IP20/54



# System components SDT T8 IP20



## T8 IP20

### Combination SDG/SDGV-T8 device mount and light directing

SDG/SDGV  
1x58  
page 403/404

SDG/SDGV  
2x58  
page 403/404

#### Legend

Type	light directing	item no	page	section	combinability
<b>Mirrors self-supporting</b>					
	SDFB T8 direct wide distribution	1873 3580 100	412		X X
	SDFT T8 direct narrow distribution	1873 4580 100	412		X
⑧	SDFT-VT8 direct narrow distribution	1873 5580 100	412		X
	SDFA T8 direct asymmetrical distribution	1873 6950 100	412		X
	SDHS T8 direct extremely narrow distribution	1873 9950 100	412		X
<b>Reflectors based</b>					
⑥	SDR Reflector large direct narrow-/wide distribution	1870 5580 100	416		X X
	SDRI Reflector large direct/indirect narrow-/wide distribution	1870 4580 100	416		X X
<b>+ Insert in Reflector</b>					
	SDLR Cross-blade louvre for reflector SDR o. SDRI	1871 7580 100	416		X X
	SDP Pane for reflector SDR	1877 5580 100	416		X X
⑨	SDRD Louvre high specular for reflector SDR	1886 5580 100	417		X
	SDSB Mirror wide distribution for reflector SDR	1872 7580 100	417		X
	SMC Comfort-Reflector large direct narrow-/wide distribution	1888 9580 100	418		X X
⑥	SMCI Comfort-Reflector large direkt/indirekt tief-/breitstrahlend	1888 1580 100	418		X X
<b>+ Insert in Reflector</b>					
	SMLRC Cross-blade louvre for reflector SMC o. SMCI	1889 1580 100	418		X X
	SMPC Pane for reflector SMC	1877 1580 100	418		X X
	SMSDC Louvre high specular for reflector SMC	1886 8580 100	419		X
⑨	2x SMSAC Mirror wide distribution for reflector SMC	1871 5580 100	419		X
	1x SMSAC Spiegel asymmetrical distribution for reflector SMC	1871 5580 100	419		X

#### Colour code SDT

		Mounting rails
		Device mounts/blank covers
		Light directing/reflectors
		Reflector inserts

#### Rail construction:

- SDT-rails 1-, 2- or 3-length with appropriate wiring.
- Mountings as SDH (chain hanger) or SDD (for ceiling), at least 2 pcs. and 2.5 m per one addition required.  
Wider slope distances are also possible with optional accessories.
- SDTV/SDTVL (connector) to be considered.
- Select SDTE (rail end faces) per continuous row.
- Device mounts and any other attachments take into account according to table.



T5/T8 IP20/54

<b>System module</b>	①	SDT mounting rails	> Select rails with 1-, 2- or 3-lengths with the corresponding wiring
	④	Mounting	> Chain hook or ceiling mounting in accordance with the distance between the suspensions
	②	Rail connectors	> Calculate the type which suits the protection class
	③	Rail end faces	> Select the pairs of end pieces which suit the protection class
	⑦	Reflector end faces	> Select the pairs of end pieces which suit the reflector
	⑤	Device mounts/ Blank covers	> Quantities with add. attachment parts, if required, according to table calculation of quantities > Select the type which suit the protection class of the device mount
	⑥⑧	Self-supporting reflector/reflectors	> Reflector in accordance with the planned light distribution
	⑨	Reflector inserts	> Light directing/louvre in accordance with the planned glare limitation

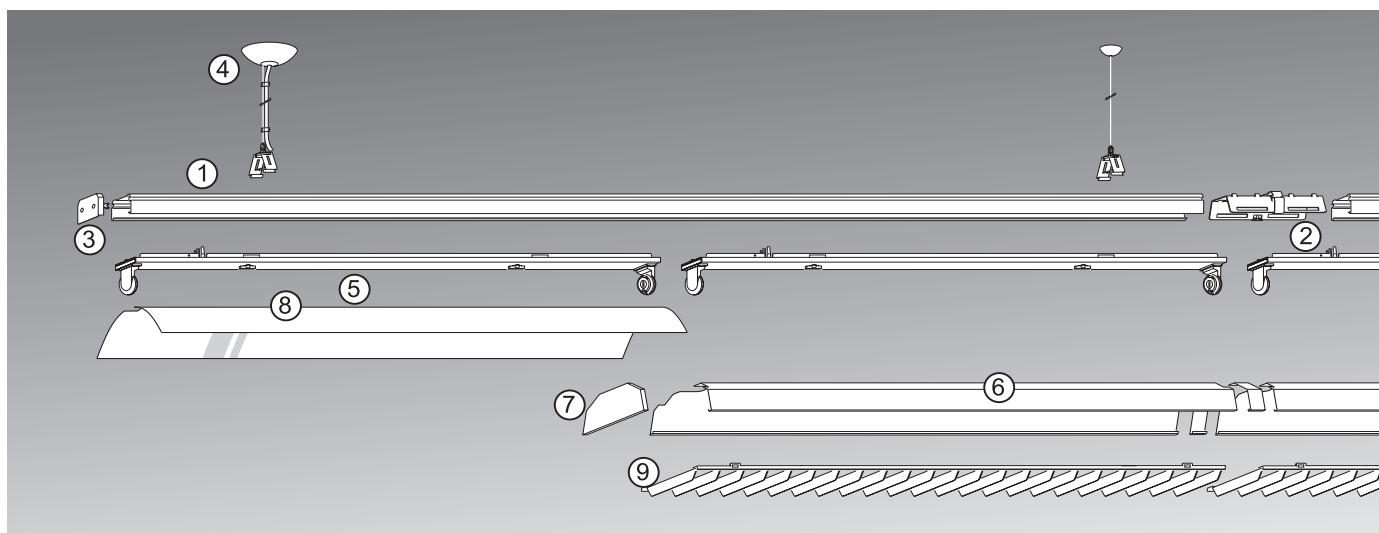
### System components SDT for quantity calculation IP20

SDT System-components		1length-mounting rail	2length-mounting rail	3length-mounting rail	connectors	pair end faces	feeder adapter	brackets (ceiling mounting)	+ device mounts	if SO +	self-supporting reflectors/reflectors	if SO +	louvres/pane
Legend		①	①	①	②	③		④	⑤		⑥ ⑧		⑨
T8 IP20	Item Designation Item no	SDT 1500/I 5x2,5mm <sup>2</sup> 1826 1580 100	SDT 1500/II 5x2,5mm <sup>2</sup> 1826 2580 100	SDT 1500/III 5x2,5mm <sup>2</sup> 1826 3580 100	SDTV 1820 0020 100 or SDTVL 1820 0031 100	SDTE 1890 0231 100	SDTAF-7 1820 3092 100	SDH 1890 0039 100 or SDD 1890 0033 100	+ SDB. SDG...	if SO +	SDF.. T8 SDR.. T8 SM... T8	if SO +	SDR.. SM...
	Length [m]	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece
1,54	1	1	0	0	0	1	1	2	1		1		1
3,07	2	0	1	0	0	1	1	2	2		2		2
4,61	3	0	0	1	0	1	1	2	3		3		3
6,14	4	0	2	0	1	1	1	3	4		4		4
7,68	5	0	1	1	1	1	1	4	5		5		5
9,21	6	0	0	2	1	1	1	4	6		6		6
10,75	7	0	2	1	2	1	1	5	7		7		7
12,28	8	0	1	2	2	1	1	6	8		8		8
13,82	9	0	0	3	2	1	1	6	9		9		9
15,35	10	0	2	2	3	1	1	7	10		10		10
16,89	11	0	1	3	3	1	1	8	11		11		11
18,42	12	0	0	4	3	1	1	8	12		12		12
19,96	13	0	2	3	4	1	1	9	13		13		13
21,49	14	0	1	4	4	1	1	10	14		14		14
23,03	15	0	0	5	4	1	1	10	15		15		15
24,56	16	0	2	4	5	1	1	11	16		16		16
26,10	17	0	1	5	5	1	1	12	17		17		17
27,63	18	0	0	6	5	1	1	12	18		18		18
29,17	19	0	2	5	6	1	1	13	19		19		19
30,70	20	0	1	6	6	1	1	14	20		20		20
32,24	21	0	0	7	6	1	1	14	21		21		21
33,77	22	0	2	6	7	1	1	15	22		22		22
35,31	23	0	1	7	7	1	1	16	23		23		23
36,84	24	0	0	8	7	1	1	16	24		24		24
38,38	25	0	2	7	8	1	1	17	25		25		25
39,91	26	0	1	8	8	1	1	18	26		26		26
41,45	27	0	0	9	8	1	1	18	27		27		27
42,98	28	0	2	8	9	1	1	19	28		28		28
44,52	29	0	1	9	9	1	1	20	29		29		29
46,05	30	0	0	10	9	1	1	20	30		30		30
47,59	31	0	2	9	10	1	1	21	31		31		31
49,12	32	0	1	10	10	1	1	22	32		32		32
50,66	33	0	0	11	10	1	1	22	33		33		33
52,19	34	0	2	10	11	1	1	23	34		34		34
53,73	35	0	1	11	11	1	1	24	35		35		35



T5/T8 IP20/54

# System components SDT T5 IP54



## T5 IP54 Combination SDGS/SDGFF-T5 device mount and light directing

SDGS/SDGFF  
1x35/49/80  
page 422/423

SDGS/SDGFF  
2x35/49  
page 422/423

### Legend

Type	light directing	item no	page	section	combinability		
<b>Mirrors self-supporting</b>							
⑧	SDFB T8	direct wide distribution for T5 IP54	1873 3580 100	428	⌒	X	
	SDFT T8	direct narrow distribution for T5 IP54	1873 4580 100	428	⌒	X	
	SDFA T8	direct asymmetrical distribution for T5 IP54	1873 6950 100	428	⌒	X	
	SDHS T8	direct extremely narrow distribution for T5 IP54	1873 9950 100	428	⌒	X	
<b>Reflectors based</b>							
⑥	SDR	Reflector large direct narrow-/wide distribution	1870 5580 100	430	⌒	X	X
	+ Insert in reflektor						
		SDLR Cross-blade louvre for reflector SDR	1871 7580 100	430	⌒	X	X
⑨		SDP Pane for reflector SDR	1877 5580 100	430	⌒	X	X
		SDSB Mirror wide distribution for reflector SDR	1872 7580 100	431	⌒	X	

### Rail construction:

1. SDT-rails 1-, 2- or 3-length with appropriate wiring.
2. Mountings as SDH (chain hanger) or SDD (for ceiling), at least 2 pcs. and 2.5 m per one addition required.  
Wider slope distances are also possible with optional accessories.
3. SDTVLS (connector) to be considered.
4. Select SDTES (rail end faces) per continuous row.
5. Device mounts and any other attachments take into account according to table.

### Colour code SDT

		Mounting rails
		Device mounts/blank covers
		Light directing/reflectors
		Reflector inserts



<b>System module</b>	①	SDT mounting rails	> Select rails with 1-, 2- or 3-lengths with the corresponding wiring
	④	Mounting	> Chain hook or ceiling mounting in accordance with the distance between the suspensions
	②	Rail connectors	> Calculate the type which suits the protection class
	③	Rail end faces	> Select the pairs of end pieces which suit the protection class
	⑦	Reflector end faces	> Select the pairs of end pieces which suit the reflector
	⑤	Device mounts/ Blank covers	> Quantities with add. attachment parts, if required, according to table calculation of quantities > Select the type which suit the protection class of the device mount
	⑥⑧	Self-supporting reflector/reflectors	> Reflector in accordance with the planned light distribution
	⑨	Reflector inserts	> Light directing/louvre in accordance with the planned glare limitation

### System components SDT for quantity calculation IP54

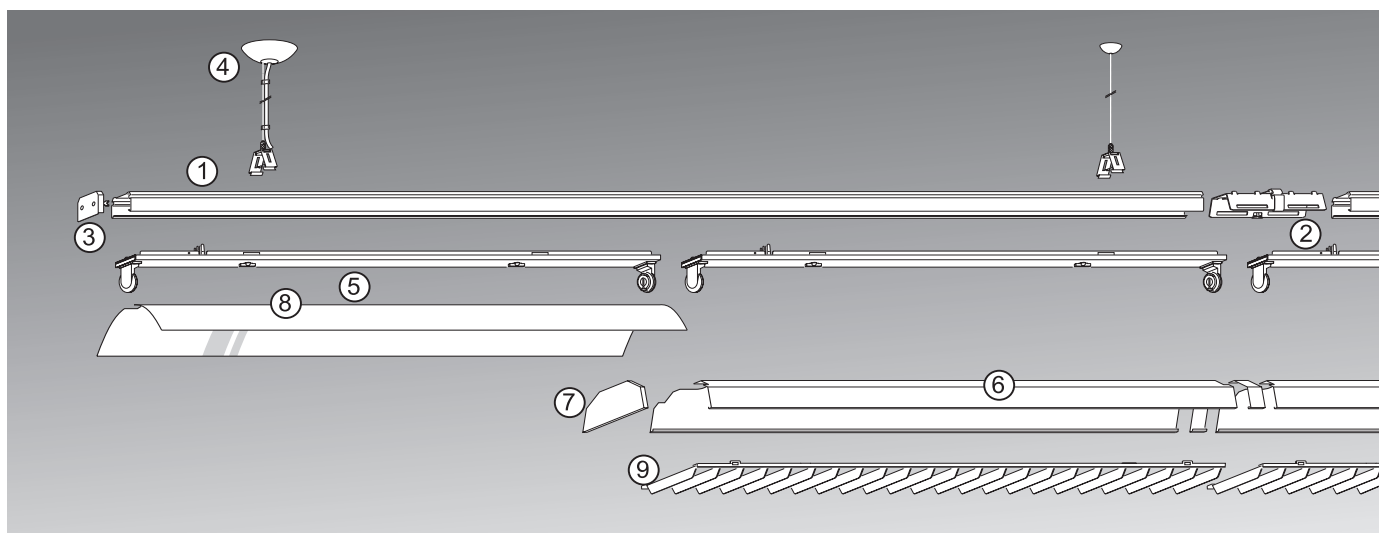
SDT System-components	1length-mounting rail	2length-mounting rail	3length-mounting rail	connectors	pair end faces	feeder adapter	brackets (ceiling mounting)	+ device mounts	if SO +	self-supporting reflectors/reflectors	if SO +	louvres/pane	
Legend	①	①	①	②	③		④	⑤		⑥ ⑧		⑨	
<b>T5 IP54</b>	Item Designation Item no	SDT 1500/I 5x2,5mm <sup>2</sup> 1826 1580 100	SDT 1500/II 5x2,5mm <sup>2</sup> 1826 2580 100	SDT 1500/III 5x2,5mm <sup>2</sup> 1826 3580 100	SDTVLS 1820 0050 100	SDTES 1890 0235 100	SDTAF-7 1820 3092 100	SDH 1890 0039 100 or SDD 1890 0033 100	+ SDB. SDG...	if SO +	SDF. SDR.	if SO +	SD..
Length [m]	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece	
1,54	1	1	0	0	0	1	1	2	1	1	1	1	
3,07	2	0	1	0	0	1	1	2	2	2	2	2	
4,61	3	0	0	1	0	1	1	2	3	3	3	3	
6,14	4	0	2	0	1	1	1	3	4	4	4	4	
7,68	5	0	1	1	1	1	1	4	5	5	5	5	
9,21	6	0	0	2	1	1	1	4	6	6	6	6	
10,75	7	0	2	1	2	1	1	5	7	7	7	7	
12,28	8	0	1	2	2	1	1	6	8	8	8	8	
13,82	9	0	0	3	2	1	1	6	9	9	9	9	
15,35	10	0	2	2	3	1	1	7	10	10	10	10	
16,89	11	0	1	3	3	1	1	8	11	11	11	11	
18,42	12	0	0	4	3	1	1	8	12	12	12	12	
19,96	13	0	2	3	4	1	1	9	13	13	13	13	
21,49	14	0	1	4	4	1	1	10	14	14	14	14	
23,03	15	0	0	5	4	1	1	10	15	15	15	15	
24,56	16	0	2	4	5	1	1	11	16	16	16	16	
26,10	17	0	1	5	5	1	1	12	17	17	17	17	
27,63	18	0	0	6	5	1	1	12	18	18	18	18	
29,17	19	0	2	5	6	1	1	13	19	19	19	19	
30,70	20	0	1	6	6	1	1	14	20	20	20	20	
32,24	21	0	0	7	6	1	1	14	21	21	21	21	
33,77	22	0	2	6	7	1	1	15	22	22	22	22	
35,31	23	0	1	7	7	1	1	16	23	23	23	23	
36,84	24	0	0	8	7	1	1	16	24	24	24	24	
38,38	25	0	2	7	8	1	1	17	25	25	25	25	
39,91	26	0	1	8	8	1	1	18	26	26	26	26	
41,45	27	0	0	9	8	1	1	18	27	27	27	27	
42,98	28	0	2	8	9	1	1	19	28	28	28	28	
44,52	29	0	1	9	9	1	1	20	29	29	29	29	
46,05	30	0	0	10	9	1	1	20	30	30	30	30	
47,59	31	0	2	9	10	1	1	21	31	31	31	31	
49,12	32	0	1	10	10	1	1	22	32	32	32	32	
50,66	33	0	0	11	10	1	1	22	33	33	33	33	
52,19	34	0	2	10	11	1	1	23	34	34	34	34	
53,73	35	0	1	11	11	1	1	24	35	35	35	35	



T5/T8 IP20/54



# System components SDT T8 IP54



## T8 IP54 Combination SDGS/SDGFF-T8 device mount and light directing

SDGS/SDGFF  
1x35/49/80  
page 422/423

SDGS/SDGFF  
2x35/49  
page 422/423

### Legend

Type	light directing	item no	page	section	combinability
<b>Mirrors self-supporting</b>					
⑧	SDFB T8 direct wide distribution	1873 3580 100	428		X
	SDFT T8 direct narrow distribution	1873 4580 100	428		X
	SDFA T8 direct asymmetrical distribution	1873 6950 100	428		X
	SDHS T8 direct extremely narrow distributionfor	1873 9950 100	428		X
<b>Reflectors based</b>					
⑥	SDR Reflector large direct narrow-/wide distribution	1870 5580 100	430		X X
	+ Insert in reflektor				
	SDLR Cross-blade louvre for reflector SDR	1871 7580 100	430		X X
⑨	SDP Pane for reflector SDR	1877 5580 100	430		X X
	SDSB Mirror wide distribution for reflector SDR	1872 7580 100	431		X

### Rail construction:

1. SDT-rails 1-, 2- or 3-length with appropriate wiring.
2. Mountings as SDH (chain hanger) or SDD (for ceiling), at least 2 pcs. and 2.5 m per one addition required.  
Wider slope distances are also possible with optional accessories.
3. SDTVLS (connector) to be considered.
4. Select SDTES (rail end faces) per continuous row.
5. Device mounts and any other attachments take into account according to table.

### Colour code SDT

	Mounting rails
	Device mounts/blank covers
	Light directing/reflectors
	Reflector inserts



<b>System module</b>	①	SDT mounting rails	> Select rails with 1-, 2- or 3-lengths with the corresponding wiring
	④	Mounting	> Chain hook or ceiling mounting in accordance with the distance between the suspensions
	②	Rail connectors	> Calculate the type which suits the protection class
	③	Rail end faces	> Select the pairs of end pieces which suit the protection class
	⑦	Reflector end faces	> Select the pairs of end pieces which suit the reflector
	⑤	Device mounts/ Blank covers	> Quantities with add. attachment parts, if required, according to table calculation of quantities > Select the type which suit the protection class of the device mount
	⑥⑧	Self-supporting reflector/reflectors	> Reflector in accordance with the planned light distribution
	⑨	Reflector inserts	> Light directing/louvre in accordance with the planned glare limitation

### System components SDT for quantity calculation IP54

SDT System-components	1length-mounting rail	2length-mounting rail	3length-mounting rail	connectors	pair end faces	feeder adapter	bracket s (ceiling mounting)	+ device mounts	if SO +	self-supporting reflectors/reflectors	if SO +	louvres/pane	
Legend	①	①	①	②	③		④	⑤		⑥ ⑧		⑨	
<b>T8 IP54</b>	Item Designation Item no	SDT 1500/I 5x2,5mm <sup>2</sup> 1826 1580 100	SDT 1500/II 5x2,5mm <sup>2</sup> 1826 2580 100	SDT 1500/III 5x2,5mm <sup>2</sup> 1826 3580 100	SDTVLS 1820 0050100	SDTES 1890 0235100	SDTAF-7 1820 3092100	SDH 1890 0039100 or SDD 1890 0033100	+ SDB. SDG...	if SO +	SDF. T8 SDR.	if SO +	SDR
Length [m]	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece	piece	
1,54	1	1	0	0	0	1	1	2	1	1	1	1	
3,07	2	0	1	0	0	1	1	2	2	2	2	2	
4,61	3	0	0	1	0	1	1	2	3	3	3	3	
6,14	4	0	2	0	1	1	1	3	4	4	4	4	
7,68	5	0	1	1	1	1	1	4	5	5	5	5	
9,21	6	0	0	2	1	1	1	4	6	6	6	6	
10,75	7	0	2	1	2	1	1	5	7	7	7	7	
12,28	8	0	1	2	2	1	1	6	8	8	8	8	
13,82	9	0	0	3	2	1	1	6	9	9	9	9	
15,35	10	0	2	2	3	1	1	7	10	10	10	10	
16,89	11	0	1	3	3	1	1	8	11	11	11	11	
18,42	12	0	0	4	3	1	1	8	12	12	12	12	
19,96	13	0	2	3	4	1	1	9	13	13	13	13	
21,49	14	0	1	4	4	1	1	10	14	14	14	14	
23,03	15	0	0	5	4	1	1	10	15	15	15	15	
24,56	16	0	2	4	5	1	1	11	16	16	16	16	
26,10	17	0	1	5	5	1	1	12	17	17	17	17	
27,63	18	0	0	6	5	1	1	12	18	18	18	18	
29,17	19	0	2	5	6	1	1	13	19	19	19	19	
30,70	20	0	1	6	6	1	1	14	20	20	20	20	
32,24	21	0	0	7	6	1	1	14	21	21	21	21	
33,77	22	0	2	6	7	1	1	15	22	22	22	22	
35,31	23	0	1	7	7	1	1	16	23	23	23	23	
36,84	24	0	0	8	7	1	1	16	24	24	24	24	
38,38	25	0	2	7	8	1	1	17	25	25	25	25	
39,91	26	0	1	8	8	1	1	18	26	26	26	26	
41,45	27	0	0	9	8	1	1	18	27	27	27	27	
42,98	28	0	2	8	9	1	1	19	28	28	28	28	
44,52	29	0	1	9	9	1	1	20	29	29	29	29	
46,05	30	0	0	10	9	1	1	20	30	30	30	30	
47,59	31	0	2	9	10	1	1	21	31	31	31	31	
49,12	32	0	1	10	10	1	1	22	32	32	32	32	
50,66	33	0	0	11	10	1	1	22	33	33	33	33	
52,19	34	0	2	10	11	1	1	23	34	34	34	34	
53,73	35	0	1	11	11	1	1	24	35	35	35	35	



T5/T8 IP20/54





# Mounting rails T5/T8 IP20/54



▶303

⊕ ⊗ CE IP 20/54

## Housing:

- Mounting rail of roll-formed, torsionally stiff sheet steel, pregalvanised
- Suitable for IP20, IP40 and IP54
- Flat ribbon cabling installed and wired on rapid mounting socket unit at the factory

## Miscellaneous:

- Special versions of device mounts or device mounts with light control components are needed to use the mounting rail wired with 11 poles

## Accessories:

- To be equipped with either LED, T5 or T8 device mounts. Connection and assembly accessories as well as rail end faces and connectors to be ordered separately.

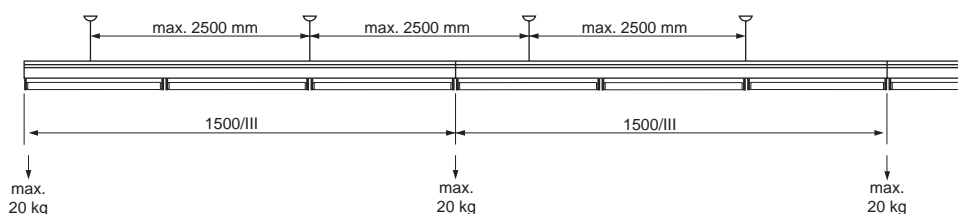
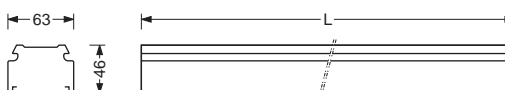
## Mounting instructions:

- The suspensions are designed for vertical loading
- For other arrangements or suspension spacing >2,5 m, approval and/or accessories are required



## Dimensions

Type	Unit	LxBxH/DxH
SDT 1200/I	1200	1235 x 63 x 46
SDT 1200/II	1200	2470 x 63 x 46
SDT 1200/III	1200	3705 x 63 x 46
SDT 1500/I	1500	1535 x 63 x 46
SDT 1500/II	1500	3070 x 63 x 46
SDT 1500/III	1500	4605 x 63 x 46







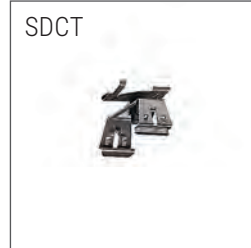


## Products

Type	Unit	Wiring	Colour	/I		/II		/III	
				Item number	kg	Item number	kg	Item number	kg
SDT	1200	7x2,5 qmm	vw	1828 1360 100	1,25	1828 2360 100	2,45	1828 3360 100	3,70
				1825 1580 100	1,60	1825 2580 100	3,20	1825 3580 100	4,60
	1500	5x1,5 qmm	wa	1825 1580 105	1,60	1825 2580 105	3,20	1825 3580 105	4,60
				1826 1580 100	1,65	1826 2580 100	3,30	1826 3580 100	4,80
		5x2,5 qmm	vw	1826 1580 100	1,65	1826 2580 100	3,30	1826 3580 100	4,80
				1826 1580 105	1,65	1826 2580 105	3,30	1826 3580 105	4,80
		7x2,5 qmm	vw	1828 1580 100	1,75	1828 2580 100	3,50	1828 3580 100	5,20
				1828 1580 105	1,75	1828 2580 105	3,50	1828 3580 105	5,20
		7x2,5/4x1,5 qmm	vw	1830 1580 100	1,92	1830 2580 100	3,73	1830 3580 100	5,80

T5/T8 IP20/54



# Accessories mounting rail SDT T5/T8 IP20

SDECE 	SDTA F 	SDTA M 	SDT -K DV 	SDTE 
SDCS 	SDCSE 	KK 	KP 	SDH 
SDT -AP 	SDT -ZA 	RP 	SDRP 	SDCT 
SDD 	SDT -KL vw 	SDT -KL wa 	SDT -KT vw 	SDT -KT wa 
SDT -KX vw 	SDT -KX wa 	SDTV 	SDTVL 	

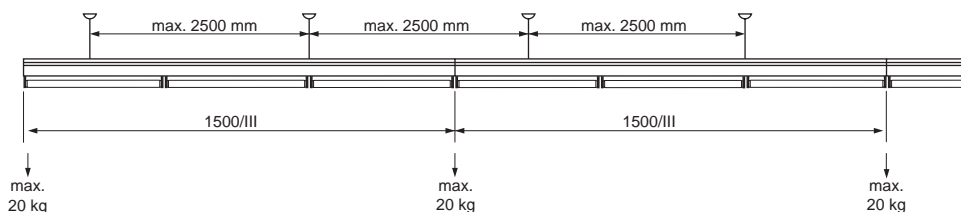


In order to configure around corners as quickly as linear configurations, form components have been developed for the mounting rail system. Using L, T- and X nodes and flexible cabling sophisticated design plans such as grid or island solutions in the form of lighting landscapes can be quickly and easily realized.

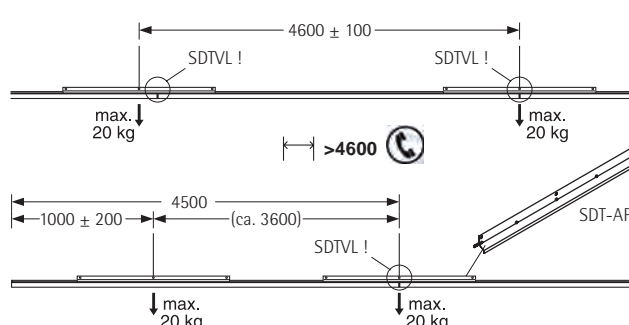
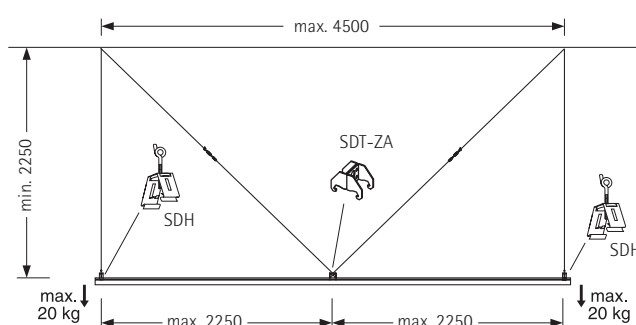
## Accessories

	Type	Colour	Material	Details	Item number			
<i>Design</i>								
Kit of end pieces	SDECE	vw	PC	for SDT+SDEC, SDT+SDE	1891 0532 100	2	0,05	
		wa	PC	for SDT+SDEC, SDT+SDE	1891 0532 105	2	0,05	
<i>Electrical technology</i>								
Socket/plug combined	SDTA F-7	ce	Polymer	7pol., 5/7x1.5-2.5mm <sup>2</sup> for SDT	1820 3092 100	1	0,01	
		ce	Polymer	7pol., 5/7x1.5-2.5mm <sup>2</sup> for SDT	1820 3090 100	1	0,01	
		ce	Polymer	11pol., 4x1.5mm <sup>2</sup> + 7x1.5-2.5mm <sup>2</sup> for SDT	1820 2092 100	1	0,01	
		ce	Polymer	11pol., 4x1.5mm <sup>2</sup> + 7x1.5-2.5mm <sup>2</sup> for SDT	1820 2090 100	1	0,01	
Connection cable kit	SDT -KDV	vw	St	2xmale+female 7 pol.; 7x2.5mm <sup>2</sup> , 600mm for SDT	1884 7900 100	1	0,21	
<i>Protection</i>								
Protective cover IP20	SDTE	vw	PC	for SDT, ATS	1890 0231 100	2	0,02	
		wa	PC	for SDT	1890 0231 105	2	0,02	
<i>Mounting</i>								
Single wire suspension	SDCS	ws	Stainless steel+mix	l=2000mm for SDT	1890 0034 100	1	0,07	
		SDCSE	ws	Stainless steel+mix	Canopy D=123mm, rope D=1.5mm, L=2200mm, 3x1.5mm <sup>2</sup> for SDT	1890 0044 100	1	0,30
Chain suspension	KK	me	St	Chain l=30m, for SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1	4,60	
		KP 80	me	St+PC	l=800mm for suspended luminaires	9282 9080 100	1	0,27
		SDH	me	Inox	for SDT, ATS at chain	1890 0039 100	1	0,04
		SDT -AP	me	St	for SDT	1890 0022 100	1	0,93
		SDT -ZA	me	St	for SDT	6820 9300 110	1	0,20
Tubular pendant suspension	RP 50	ws	St+PC	d=16mm, M13, l=500mm for suspended luminaires	9280 9050 100	1	0,25	
		RP 80	ws	St+PC	d=16mm, M13, l=800mm for suspended luminaires	9280 9080 100	1	0,33
		RP 100	ws	St+PC	d=16mm, M13, l=1000mm for suspended luminaires	9280 9100 100	1	0,40
		SDRP	me	Stainless steel+mix	for SDT at tubular pendant RP	1890 0054 100	1	0,02
Mounting clip	SDCT	me	Inox	for SDT at visible T-rail	1890 0042 100	1	0,03	
		SDD	me	Inox	for SDT at ceiling	1890 0033 100	1	0,01
<i>Structure</i>								
Mounting rail connector	SDT -K L	vw	St	L form	1884 7200 100	1	0,45	
		wa	St	L form	1884 7200 105	1	0,62	
	SDT -K T	vw	St	T-form	1884 7300 100	1	0,84	
		wa	St	T-form	1884 7300 105	1	0,84	
	SDT -K X	vw	St	X-form	1884 7400 100	1	0,63	
		wa	St	X-form	1884 7400 105	1	1,10	
	SDTV	me	St.galv.	for SDT	1820 0020 100	1	0,22	
	SDTVL	me	St.galv.	detachable for SDT	1820 0031 100	1	0,24	

For mounting distance < 2500 mm:



For mounting distance > 2500 mm:



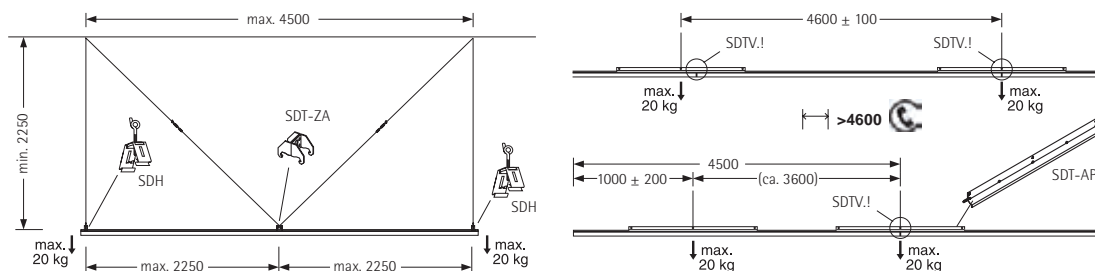
# Accessories mounting rail SDT T5/T8 IP54



T5/T8 IP20/54



For mounting distance > 2500 mm:



## Accessories

	Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>							
Socket/plug combined	SDTA F-7	ce	Polymer	7pol., 5/7x1.5-2.5mm <sup>2</sup> for SDT	1820 3092 100	1	0,01
	SDTA M-7	ce	Polymer	7pol., 5/7x1.5-2.5mm <sup>2</sup> for SDT	1820 3090 100	1	0,01
	SDTA F-11	ce	Polymer	11pol., 4x1.5mm <sup>2</sup> + 7x1.5-2.5mm <sup>2</sup> for SDT	1820 2092 100	1	0,01
	SDTA M-11	ce	Polymer	11pol., 4x1.5mm <sup>2</sup> + 7x1.5-2.5mm <sup>2</sup> for SDT	1820 2090 100	1	0,01
<i>Protection</i>							
Protective cover IP54	SDTES	vw	PC	for SDT IP54	1890 0235 100	2	0,02
<i>Mounting</i>							
Single wire suspension	SDCS	ws	Stainless steel+mix	l=2000mm for SDT	1890 0034 100	1	0,07
	SDCSE	ws	Stainless steel+mix	Canopy D=123mm, rope D=1.5mm, L=2200mm, 3x1.5mm <sup>2</sup> for SDT	1890 0044 100	1	0,30
Chain suspension	KK	me	St	Chain l=30m, for SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1	4,60
	KP 80	me	St+PC	l=800mm for suspended luminaires	9282 9080 100	1	0,27
	SDH	me	Inox	for SDT, ATS at chain	1890 0039 100	1	0,04
	SDT -AP	me	St	for SDT	1890 0022 100	1	0,93
	SDT -ZA	me	St	for SDT	6820 9300 110	1	0,20
Tubular pendant suspension	RP 50	ws	St+PC	d=16mm, M13, l=500mm for suspended luminaires	9280 9050 100	1	0,25
	RP 80	ws	St+PC	d=16mm, M13, l=800mm for suspended luminaires	9280 9080 100	1	0,33
	RP 100	ws	St+PC	d=16mm, M13, l=1000mm for suspended luminaires	9280 9100 100	1	0,40
	SDRP	me	Stainless steel+mix	for SDT at tubular pendant RP	1890 0054 100	1	0,02
Mounting clip	SDCT	me	Inox	for SDT at visible T-rail	1890 0042 100	1	0,03
	SDD	me	Inox	for SDT at ceiling	1890 0033 100	1	0,01
<i>Structure</i>							
Mounting rail connector	SDTVLS	me	St.galv.	detachable for SDT IP54	1820 0050 100	1	0,25







# Device mounts T5 IP20



### Lighting technology SDG:

- Direct / indirect general diffuse distribution
- Twin lamp version with offset sockets for reduced luminance disparities

### Lamp:

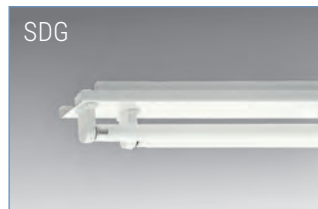
- For fitting with lamp(s) T5

### Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated twist-locks
- Suitable for mounting light control components such as reflectors, mirrors etc.

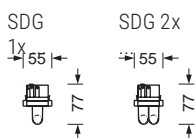
### Switching:

- 1 Control gear
- Electronic ballast
- Fixed device mount plug with tool-free phase preselection and locating finger



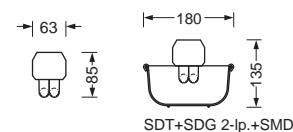
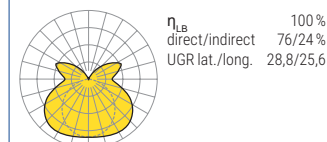
### Dimensions

Type	Unit	Versions	LxBxH/DxH
SDG	1200	T5 1x28, 54 W	1231 x 55 x 77
	1500	T5 1x35, 49, 80 W	1531 x 55 x 77
	1200	T5 2x28, 54 W	1231 x 55 x 77
	1500	T5 2x35, 49, 80 W	1531 x 55 x 77



### Combination


SDT+SDG 2x T5 49 W



SDT+SDG 2-lp.+SMD




**Products**

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	
<i>T5 - IP20</i>							
SDG	1200	T5 1x28/54W	58	vw	ECG	1820 1944 500	1,00
		T5 2x28/54W	116	vw	ECG	1820 2944 500	1,10
	1500	T5 1x35/49/80W	52	vw	ECG	1820 1954 500	1,00
				vw	ECG DALI	1820 1956 600	1,00
		T5 1x49W	52	vw	ECG	1820 1494 500	1,00
				vw	ECG EM pack 1h	1820 1497 100	1,80
				vw	ECG EM pack B3	1820 1497 700	1,80
		T5 1x80W	85	vw	ECG	1820 1804 500	1,00
	vw			ECG EM pack 1h	1820 1807 100	1,80	
	vw			ECG EM pack B3	1820 1807 700	1,80	
	T5 2x35/49W		104	vw	ECG	1820 2964 500	1,10
				vw	ECG DALI	1820 2966 600	1,10
	T5 2x35/49/80W		104	vw	ECG	1820 2954 500	1,10
	T5 2x49W		104	vw	ECG	1820 2494 500	1,10
vw				ECG EM pack 1h	1820 2497 100	1,95	
vw				ECG EM pack B3	1820 2497 700	2,45	
vw				ECG DALI	1820 2806 600	1,10	




T5/T8 IP20/54

**Accessories**

Type	Colour	Material	Details	Item number		
<i>Protection</i>						
Protective wire cage	SMD 1200	blcr	St.galv.	for SDG... 1200	1885 2360 100	1 1,60
	SMD 1500	blcr	St.galv.	for SDG... 1500	1885 2580 100	1 2,00
Protective cage mounting	HB -SMD 1200/1500	vw	St.galv.	for SMD.	1885 2000 100	2 0,10

**Replacement parts**

Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>						
Contact pin	SDG -Contact 1-Pol	me	St+mix	for SDT	9200 0267 101	10 0,01

# Device mounts T5 IP20



### Lighting technology :

- Direct / indirect general diffuse distribution
- Twin lamp version with offset sockets for reduced luminance disparities

### Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated twist-locks
- Variably positionable on the mounting rail
- Suitable for mounting light control components such as reflectors, mirrors etc.

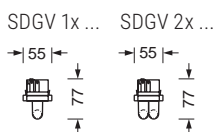
### Switching:

- 1 Control gear
- Electronic ballast
- Variable device mount plug with tool-free phase preselection and locating finger



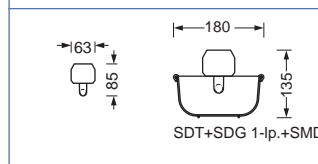
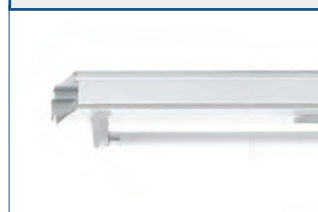
### Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGV.	1500	T5 1x35, 49, 80 W	1531 x 55 x 77
	1500	T5 2x35, 49, 80 W	1531 x 55 x 77



### Combination

SDT+SDGV 1x T5 49 W



T5/T8 IP20/54

### Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>T5 - Positioning variable</i>							
SDGV	1500	T5 1x35/49/80W	52	vw	ECG	1820 1954 150	1,20
		T5 2x35/49/80W	104	vw	ECG	1820 2954 150	1,30
		T5 2x49W	104	vw	ECG	1820 2494 150	1,30

### Accessories

Type	Colour	Material	Details	Item number	kg
<i>Protection</i>					
Protective wire cage	SMD 1500	blcr	St.galv. for SDG... 1500	1885 2580 100	1 2,00
Protective cage mounting	HB-SMD 1200/1500	vw	St.galv. for SMD.	1885 2000 100	2 0,10

### Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix for SDT	9200 0267 101	10 0,01







# Device mounts T8 IP20

⊕ ⊖ ⊕ ⊔ CE  
IP 20

**Lighting technology SDGM:**

- Direct / indirect general diffuse distribution

**Lamp:**

- For fitting with lamp T8

**Housing:**

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated twist-locks
- Suitable for mounting light control components such as reflectors, mirrors etc.

**Switching:**

- Llb A2 inductive
- Fixed device mount plug with tool-free phase preselection and locating finger



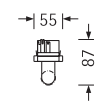
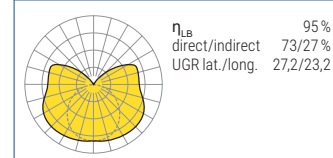
**Dimensions**

Type	Unit	Versions	LxBxH/DxH
SDGM	1500	T8 1x58W	1531 x 55 x 87



**Combination**

SDGM 1x T8 58 W



T5/T8 IP20/54

**magnetic tough**

Everywhere LED and electronics fail, due to general conditions, fluorescent lamp technology T8 with magnetic ballast provides an answer. Simply a robust system.

**Products**

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>T8 - IP20</i>							
SDGM	1500	T8 1x58W	62	vw	Llb A2 ind	1820 1581 110	3,90

**Accessories**

Type	Colour	Material	Details	Item number	kg	
<i>Electrical technology</i>						
Power factor correction	KO 7,0	me	Mix	7.0µF for T8 1/58	8415 0070 100	1 0,04
<i>Protection</i>						
Protective wire cage	SMD 1500	blcr	St.galv.	for SDG... 1500	1885 2580 100	1 2,00
Protective cage mounting	HB -SMD 1200/1500	vw	St.galv.	for SMD.	1885 2000 100	2 0,10

**Replacement parts**

Type	Colour	Material	Details	Item number	kg	
<i>Electrical technology</i>						
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101	10 0,01

# Device mounts T8 IP20



## Lighting technology SDG:

- Direct / indirect general diffuse distribution

## Lamp:

- For fitting with lamp(s) T8

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated twist-locks
- Suitable for mounting light control components such as reflectors, mirrors etc.

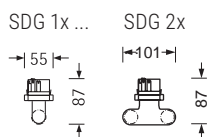
## Switching:

- The number of control units varies according to the version
- Electronic ballast
- Fixed device mount plug with tool-free phase preselection and locating finger



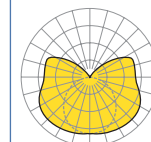
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDG	1500	T8 1x58W	1531 x 55 x 87
	1500	T8 2x58W	1531 x 110 x 87

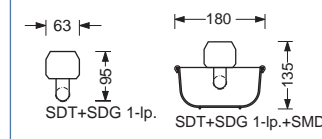


## Combination

SDT+SDG 1x T8 58 W



$\eta_{\text{la}}$  95 %  
direct/indirect 73/27 %  
UGR lat./long. 27,2/23,2



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>T8 - IP20</i>							
SDG	1500	T8 1x58W	55	vw	ECG	1820 1584 100	1,00
					ECG EM pack 1h	1820 1587 100	1,96
					ECG EM pack B3	1820 1587 700	1,86
	T8 2x58W	110	vw	ECG	1820 2584 100	1,10	
				ECG EM pack 1h	1820 2587 100	2,04	
				ECG EM pack B3	1820 2587 700	1,93	

## Accessories

Type	Colour	Material	Details	Item number	kg
<i>Protection</i>					
Protective wire cage	SMD 1500	blcr	St.galv.	for SDG... 1500	1885 2580 100 1 2,00
Protective cage mounting	HB -SMD 1200/1500	vw	St.galv.	for SMD.	1885 2000 100 2 0,10

## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG -Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01

# Device mounts T8 IP20



**Lighting technology :**

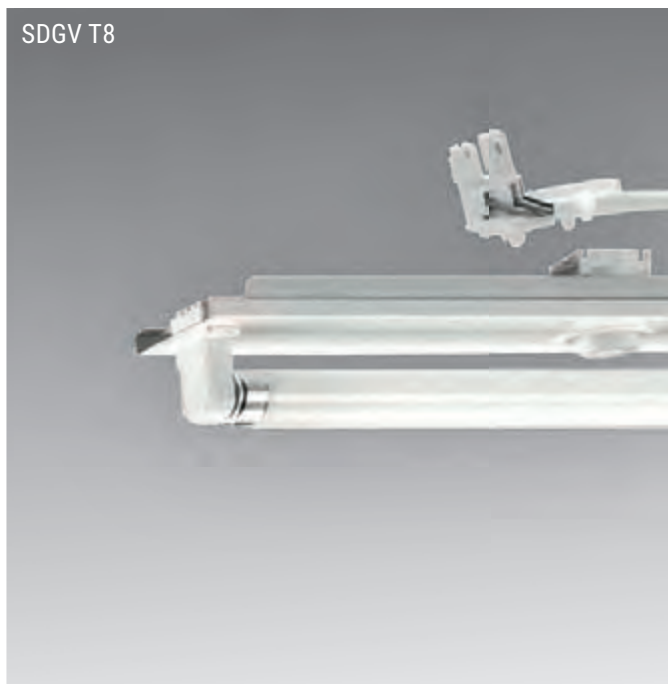
- Direct / indirect general diffuse distribution

**Housing:**

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated twist-locks
- Variably positionable on the mounting rail
- Suitable for mounting light control components such as reflectors, mirrors etc.

**Switching:**

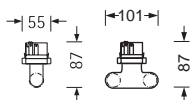
- 1 Control gear
- Electronic ballast
- Variable device mount plug with tool-free phase preselection and locating finger



**Dimensions**

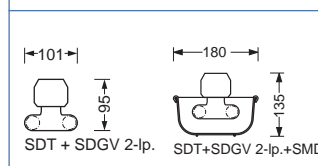
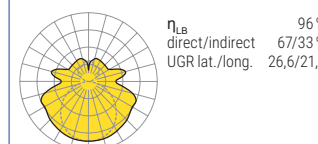
Type	Unit	Versions	LxBxH/DxH
SDGV	1500	T8 1x58W	1531 x 55 x 87
	1500	T8 2x58W	1531 x 110 x 87

SDGV 1x ... SDGV 2x ...



**Combination**

SDT+SDGV 2x T8 58 W



T5/T8 IP20/54

**Products**

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>T8 - Positioning variable</i>							
SDGV	1500	T8 1x58W	55	vw	ECG	1820 1584 150	1,20
		T8 2x58W	110	vw	ECG	1820 2584 150	1,30

**Accessories**

Type	Colour	Material	Details	Item number	kg
<i>Protection</i>					
Protective wire cage	blcr	St.galv.	for SDG... 1500	1885 2580 100	1 2,00
Protective cage mounting	vw	St.galv.	for SMD.	1885 2000 100	2 0,10

**Replacement parts**

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	me	St+mix	for SDT	9200 0267 101	10 0,01

# Device mounts IP20



## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated twist-locks
- Integrated universal 3-phase busbar with a usable length of 700 mm

## Switching:

- Fixed device mount plug with tool-free phase preselection and locating finger



Example of a configuration: Projector and lamp not included in delivery.



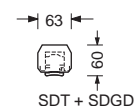
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGD 1500	1500	-	1532 x 55 x 45



## Combination

SDT+SDGD



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>3-phase track 700mm</i>							
SDGD 1500	1500	-	-	vw	-	1847 7580 100	2,30

## Replacement parts

Type	Colour	Material	Details	Item number	kg	
<i>Electrical technology</i>						
Contact pin	SDG -Contact 1-Pol	me	St+mix	for SDT	9200 0267 101	10 0,01



T5/T8 IP20/54



# Device mounts IP20



CE  
IP 20

**Housing:**

- Made from plastic
- Can be shortened to desired length on site
- Blind unit for bridging empty light run units

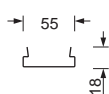
**Details:**

- Accessories for SDT 1500, ATS



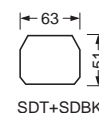
**Dimensions**

Type	Unit	Versions	LxBxH/DxH
SDBK 1500	1500	-	1536 x 55 x 18



**Combination**

SDT+SDBK



SDT+SDBK

**Products**

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>Blank cover of plastic, can be cut to suit</i>							
SDBK 1500	1500	-	-	vw	-	1883 7580 100	0,24



# Device mounts IP20



CE  
IP 20

## Housing:

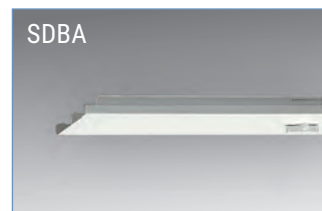
- Pre-galvanised sheet steel surface coated with polyester resin
- Blind unit for bridging empty light run units
- Suitable for mounting light control components such as reflectors, mirrors etc.

## Switching:

- Device mount plug with locating finger for earthing

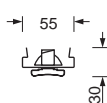
## Details:

- Accessories for SDT 1500

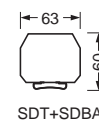
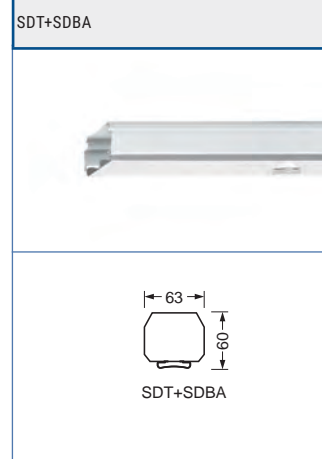


## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDBA 1500	1500	-	1536 x 55 x 30



## Combination



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>Blank cover of metal - fixing reflector</i>							
SDBA 1500	1500	-	-	vw	-	1883 6580 100	0,85

## Replacement parts

Type	Colour	Material	Details	Item number	kg	
<i>Electrical technology</i>						
Contact pin	SDG -Contact 1-Pol	me	St+mix	for SDT	9200 0267 101	10 0,01

## Sensor device mounts IP20



▶303

**SDBA M5S5**

Master unit with built-in control device and sensor for daylight- and presence-dependent control of up to 32 DALI slave units, pre-wired and ready for use via integrated 11-pole connector. Installation height up to 5 m.

System components used: control unit LC-OM DALIeco, daylight and presence sensor LC-OM DALIeco LS/PD LI. Connection of additional sensor units SDBA S5 and SDBA S5D possible.

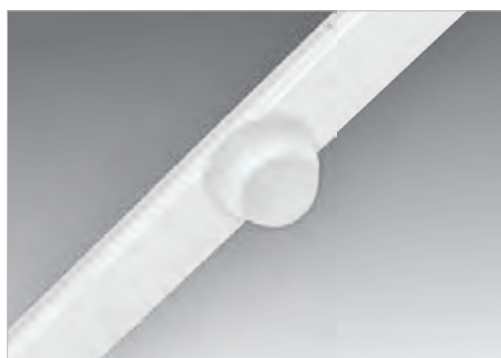
Functions: On/Off, daylight linking, presence function.

See Light Control chapter for description.

Type	LxBxH/DxH	Item number		
SDBA M5S5 1500	1532 x 55 x 50	8418 1018 100	1	1,10

**Accessories**

Type	Colour	Material	Details	Item number			
<i>Electrical technology</i>							
Light Control	LC-OM MASTER REMOTE PC KIT	-	-	Remote control for commissioning the DALIeco (M5S5) light control system	8450 1041 200	0,11	1
	LC-OM USER REMOTE	-	-	Remote control for the operation of the DALIeco (M5S5) light control system	8450 1042 100	0,11	1
Sensor	SDBA S5 1500	vw	St.galv.	Analogue sensor extension for SDBA M5S5	8418 1088 100	1,10	1
	SDBA S5D 1500	vw	St.galv.	DALI sensor extension for SDBA M5S5	8418 1088 200	0,95	1

**SDBA M12**

Sensor unit with attached motion sensor for daylight linking and presence-dependent control, wired ready for connection via integrated 11-pole plug connector.

System components used: motion sensor LC-BEG PD4-M-DALI-AP

Functions: Presence-dependent control of up to 50 DALI control units

See Light Control chapter for description.

Type	LxBxH/DxH	Item number		
SDBA M12 1500	1532 x 98 x 96	8418 6580 203	1	1,10

**Accessories**

Type	Colour	Material	Details	Item number			
<i>Electrical technology</i>							
Light Control	LC-BEG IR-PD-DALI-E	-	-	Remote control and programming tool	8450 6028 100	0,03	1
	LC-BEG IR-RC	-	-	Remote control and programming adapter	8450 6021 100	0,04	1
Sensor	SDBA S17 1500	vw	St.galv.	Extension sensor for SDBA M12, SDBA S20	8418 6580 202	1,10	1




T5/T8 IP20/54





### SDBA S10

Sensor unit with attached motion sensor for daylight linking and presence-dependent switching, wired ready for connection via integrated 11-pole plug connector.

System components used: motion sensor LC-BEG PD4-M-1C-GH-AP  
Functions: presence-dependent switching up to 2300 W,  $\cos\phi=1$   
See Light Control chapter for description.

Type	LxBxH/DxH	Item number		
SDBA S10 1500	1532 x 98 x 96	8418 6580 200	1	1,10

### Accessories

Type	Colour	Material	Details	Item number			
<i>Electrical technology</i>							
Light Control	LC-BEG IR-PD4-GH	-	-	Remote control and programming tool	8450 6006 100	0,04	1
	LC-BEG IR-RC	-	-	Remote control and programming adapter	8450 6021 100	0,04	1
Sensor	SDBA S23 1500	vw	St.galv.	Extension sensor for SDBA S10	8418 6580 201	1,10	1





### SDBA S20

Sensor unit with attached motion sensor for daylight linking and presence-dependent switching, wired ready for connection via integrated 11-pole plug connector.

System components used: motion sensor LC-BEG PD4-M-1C-AP  
Functions: presence-dependent switching up to 2300 W,  $\cos\phi=1$   
See Light Control chapter for description.

Type	LxBxH/DxH	Item number		
SDBA S20 1500	1532 x 100 x 103	8418 6001 200	1	1,10

### Accessories


Type	Colour	Material	Details	Item number			
<i>Electrical technology</i>							
Light Control	LC-BEG IR-PD-E	-	-	Remote control and programming tool	8450 6027 100	0,04	1
	LC-BEG IR-RC	-	-	Remote control and programming adapter	8450 6021 100	0,04	1
Sensor	SDBA S17 1500	vw	St.galv.	Extension sensor for SDBA M12, SDBA S20	8418 6580 202	1,10	1

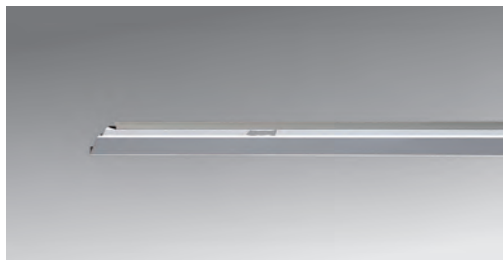


T5/T8 IP20/54

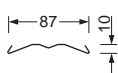



# Self-supporting reflectors T5 IP20

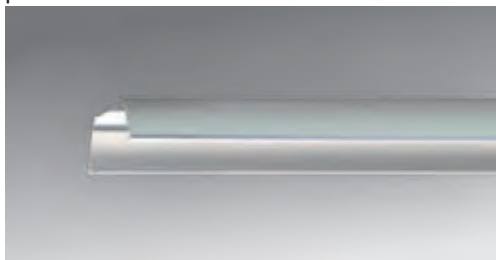
 SDFK - Self-supporting secondary reflector



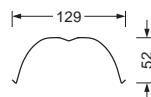
- Lighting technology SDFK:**
- Direct/indirect, narrow/wide distribution
  - Suitable for single lamp T5 IP20 configuration




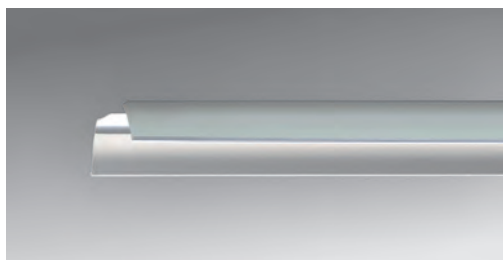
 SDFBI - Self-supporting mirror reflector, perforated



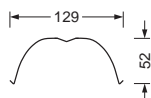
- Lighting technology SDFBI:**
- Direct/indirect, wide distribution



 SDFB - Self-supporting mirror reflector

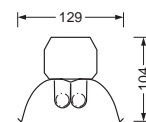
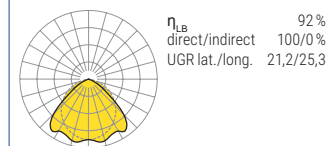


- Lighting technology SDFB:**
- Direct, wide distribution
  - Lighting technology suitable for single and twin lamp T5 IP20 configurations




## Combination


SDT+SDG+SDFB 2x T5 49 W

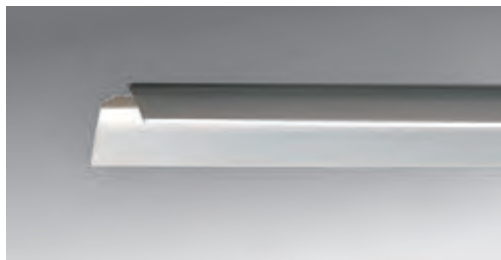


## Products

Type	Unit	Colour	Details	LxBxH/DxH	Item number	
<i>Self-supporting secondary reflector direct/indirect narrow/wide distribution</i>						
SDFK T5 1500	1500	aeh	T5 IP20 1x...	1440 x 87 x 10	1873 7951 100	0,13
<i>Self-supporting mirror reflector direct wide distribution</i>						
SDFB T5 1500	1500	aeh	T5 IP20 1x... 2x...	1550 x 129 x 52	1873 3950 100	0,32
<i>Self-supporting mirror reflector, perforated direct/indirect wide distribution</i>						
SDFBI T5 1500	1500	aeh	T5 IP20 1x... 2x...	1550 x 129 x 52	1873 2950 100	0,30

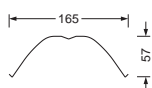
# Self-supporting reflectors T5 IP20


 SDFT - Self-supporting mirror reflector

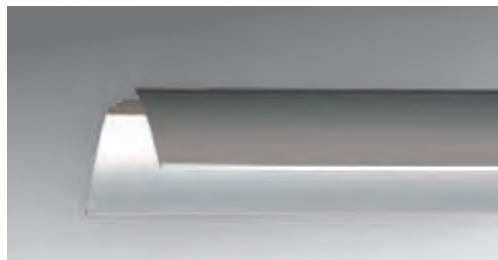


**Lighting technology SDFT:**

- Direct, narrow distribution
- Lighting technology suitable for single and twin lamp T5 IP20 configurations

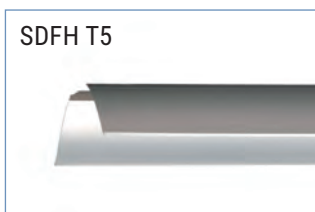



 SDFH - Self-supporting mirror reflector

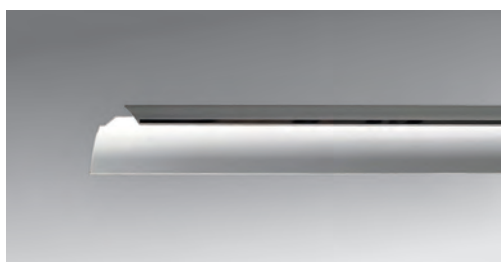


**Lighting technology SDFH:**

- Direct, extremely narrow distribution
- Lighting technology suitable for single and twin lamp T5 IP20 configurations

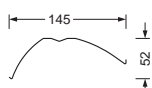


 SDFA - Self-supporting mirror reflector



**Lighting technology SDFA:**

- Direct, asymmetrical distribution
- Lighting technology suitable for single and twin lamp T5 configurations

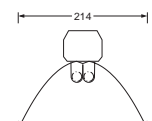


## Combination


SDT+SDG+SDFH 2x T5 49 W



$\eta_{\text{Lb}}$  88 %  
direct/indirect 100/0 %  
UGR lat./long. 13,8/24,7

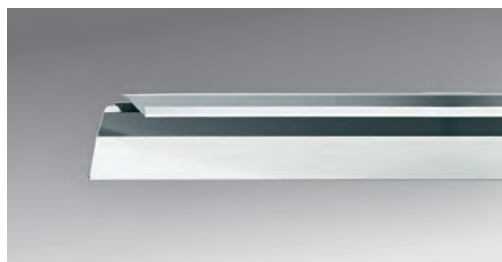


## Products

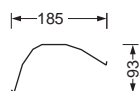
Type	Unit	Colour	Details	LxBxH/DxH	Item number	
<i>Self-supporting mirror reflector direct asymmetrical distribution</i>						
SDFA T5 1500	1500	afh	T5 IP20 1x... 2x...	1550 x 145 x 52	1873 6950 100	0,31
<i>Self-supporting mirror reflector direct extremely narrow distribution</i>						
SDFH T5 1500	1500	afh	T5 IP20 1x... 2x...	1550 x 214 x 103	1873 9950 100	0,52
<i>Self-supporting mirror reflector direct narrow distribution</i>						
SDFT T5 1500	1500	afh	T5 IP20 1x... 2x...	1550 x 165 x 57	1873 4950 100	0,35

# Self-supporting reflectors T8 IP20

SDFA - Self-supporting mirror reflector



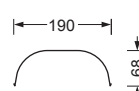
- Lighting technology SDFA:**
- Direct, asymmetrical distribution
  - Light technology suitable for single lamp T8 IP20 and IP54 configuration
  - With SDGT device mount, twin lamp T8 IP20 configuration is possible
  - Additionally suited for single lamp T5 and T8 IP54 configuration



SDFB - Self-supporting mirror reflector



- Lighting technology SDFB:**
- Direct light distribution, wide-beam
  - Lighting technology suitable for single and twin lamp configuration T8 IP20 or single lamp T5 and T8 IP54 configuration



SDHS - Self-supporting mirror reflector



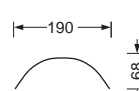
- Lighting technology SDHS:**
- Direct, extremely narrow distribution
  - Lighting technology suitable for single lamp T5 IP54 or single lamp T8 IP20 and IP54 configuration



SDFT - Self-supporting mirror reflector

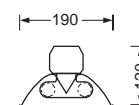


- Lighting technology SDFT:**
- Direct, narrow distribution
  - Lighting technology suitable for single lamp T5 IP54 and single lamp T8 IP20 and IP54 configuration




Combination

SDT+SDG+SDFT-V 2x T8 58 W



## Products

Type	Unit	Colour	Details	LxBxH/DxH	Item number	
<i>Self-supporting mirror reflector direct asymmetrical distribution</i>						
SDFA T8 1500	1500	aeh	T8 IP20 1x... [SDGT] T8 IP20 2x...	1550 x 185 x 93	1873 6580 100	0,53
<i>Self-supporting mirror reflector direct wide distribution</i>						
SDFB T8 1500	1500	aeh	T8 IP20 1x... 2x...	1550 x 190 x 68	1873 3580 100	0,59
<i>Self-supporting mirror reflector direct extremely narrow distribution</i>						
SDHS T8 1500	1500	aeh	T8 IP20 1x... [SDGT] T8 IP20 2x...	1550 x 224 x 90	1870 7580 100	0,70
<i>Self-supporting mirror reflector direct narrow distribution</i>						
SDFT T8 1500	1500	aeh	T8 IP20 1x...	1550 x 190 x 68	1873 4580 100	0,56
SDFT-V T8 1500	1500	aeh	T8 IP20 2x...	1550 x 190 x 68	1873 5580 100	0,72





che

Frische



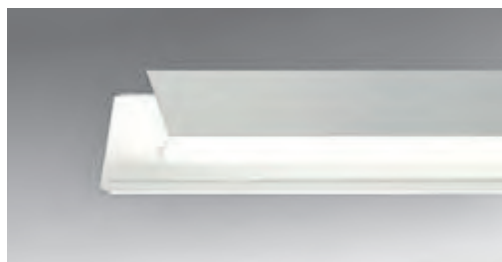
Molkereiprodukte





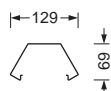
# Reflectors/reflector inserts T5 IP20

SDEC - Comfort reflector, small

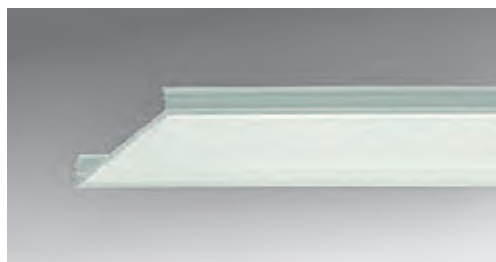


**Lighting technology SDEC:**

- Direct, narrow/wide distribution
- Lighting technology for single and twin lamp T5 IP20 configuration



SDECG - Diffuser pane insert, satin



**Lighting technology SDECG:**

- Direct, distribution by diffuse projecting, frosted polycarbonate profile
- Lighting technology for single and twin lamp T5 IP20 configurations



SDECD - Parabolic louvre insert, highly specular



**Lighting technology SDECD:**

- Reflectivity-enhanced, high specular aluminium parabolic louvre with dark-light reflector optics, 65° < 1000 cd/m<sup>2</sup> omnidirectional glare reduction for VDU workstations according to DIN EN 12464-1
- Lighting technology suitable for single and twin lamp T5 IP20 configurations



SDECX - Parabolic louvre insert, silky matt



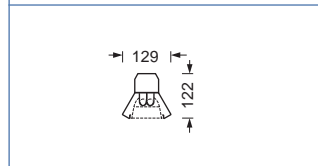
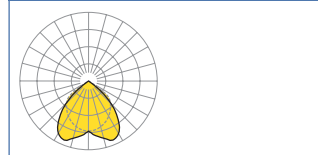
**Lighting technology SDECX:**

- Reflectivity enhanced, satin matt anodised aluminium parabolic louvre, 65° < 1000 cd/m<sup>2</sup> omnidirectional glare reduction for VDU workstations according to DIN EN 12464-1
- Lighting technology suitable for single and twin lamp T5 IP20 configurations



## Combination

SDT+SDGV-SDEC+SDECD 2x T5 35 W



## Products

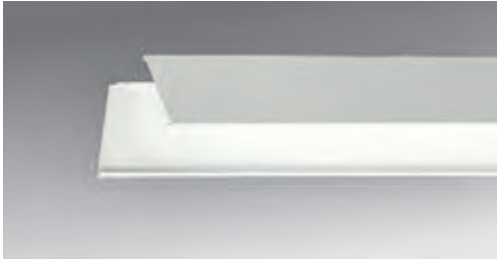
Type	Unit	Colour	Details	LxBxH/DxH	Item number	
<i>Comfort reflector small</i>						
SDEC 1500	1500	vw	T5 IP20 1x... 2x...	1534 x 129 x 69	1870 6015 100	1,73
		wa	T5 IP20 1x... 2x...	1534 x 129 x 69	1870 6015 105	1,73
<i>SDEC insert - highly specular louvre</i>						
SDECD 1500	1500	aeh	[SDEC] T5 IP20 1x... 2x...	1533 x 90 x 55	1886 6015 170	0,35
<i>SDEC insert - silky matt louvre</i>						
SDECX 1500	1500	aes	[SDEC] T5 IP20 1x... 2x...	1533 x 90 x 55	1886 6015 160	0,29
<i>SDEC insert - pane</i>						
SDECG 1500	1500	tz	[SDEC] T5 IP20 1x... 2x...	1532 x 90 x 15	1877 6015 100	0,46

## Accessories

	Type	Colour	Material	Details	Item number		
<i>Design</i>							
Kit of end pieces	SDECE	vw	PC	for SDT+SDEC, SDT+SDE	1891 0532 100	2	0,05
	SDECE	wa	PC	for SDT+SDEC, SDT+SDE	1891 0532 105	2	0,05
<i>Mounting</i>							
Tool	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1	0,08

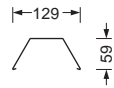
# Reflectors/reflector inserts T5 IP20

SDE - Reflector, small



**Lighting technology SDE:**

- Direct, wide distribution
- Lighting technology for single and twin lamp T5 IP20 configurations

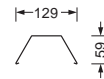


SDEI - Reflector, small, perforated



**Lighting technology SDEI:**

- Direct/indirect wide distribution
- Lighting technology suitable for single and twin lamp T5 IP20 configurations



SDT



SDG



SDEI

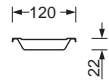


SDELR - cross blade louvre insert



**Lighting technology SDELR:**

- Direct wide distribution via cross-blade louvre made of sheet steel, white-coated
- Lighting technology for single and twin lamp T5 IP20 configurations

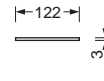


SDEP - Diffuser pane insert, prismatic

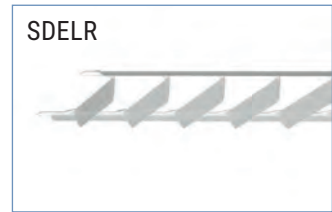


**Lighting technology SDEP:**

- Direct distribution via diffuser, outer prismatics, of acrylic glass
- Lighting technology for single and twin lamp T5 IP20 configurations

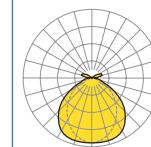


SDELR



**Combination**

SDT+SDG+SDEI+SDELR 2x T5 49 W



$\eta_{Lb}$  direct/indirect 83 %  
UGR lat./long. 22,8/21,8



**Products**

Type	Unit	Colour	Details	LxBxH/DxH	Item number	
<i>Reflector small</i>						
SDE 1200	1200	vw	T5 IP20 1x... 2x...	1234 x 129 x 59	1870 5012 100	1,13
SDE 1500	1500	vw	T5 IP20 1x... 2x...	1534 x 129 x 59	1870 5015 100	1,40
		wa	T5 IP20 1x... 2x...	1534 x 129 x 59	1870 5015 105	1,40
<i>Reflector small and perforated</i>						
SDEI 1500	1500	vw	T5 IP20 1x... 2x...	1534 x 129 x 59	1870 4015 100	1,30
		wa	T5 IP20 1x... 2x...	1534 x 129 x 59	1870 4015 105	1,30
<i>SDE insert - prismatic pane</i>						
SDEP 1200	1200	tz	[SDE]T5 IP20 1x... 2x...	1232 x 122 x 3	1877 5012 100	0,26
SDEP 1500	1500	tz	[SDE]T5 IP20 1x... 2x...	1532 x 122 x 3	1877 5015 100	0,33
<i>SDE/SDEI insert - cross-blade louvre</i>						
SDELR 1200	1200	vw	[SDE/SDEI] T5 IP20 1x... 2x...	1218 x 120 x 22	1871 5012 100	0,35
SDELR 1500	1500	vw	[SDE/SDEI] T5 IP20 1x... 2x...	1533 x 120 x 22	1871 5015 100	0,46

**Accessories**

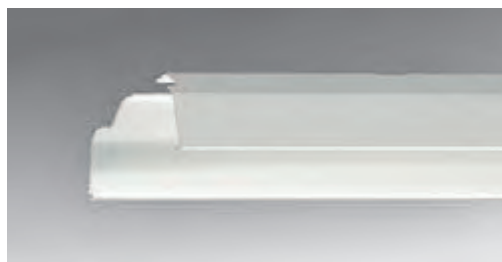
Type	Colour	Material	Details	Item number		
<i>Design</i>						
Kit of end pieces	SDECE	vw	PC	for SDT+SDEC, SDT+SDE	1891 0532 100	2 0,05
	SDECE	wa	PC	for SDT+SDEC, SDT+SDE	1891 0532 105	2 0,05



T5/T8 IP20/54

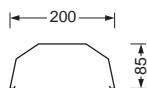
# Reflectors/reflector inserts T8 IP20

SDR - Reflector, large

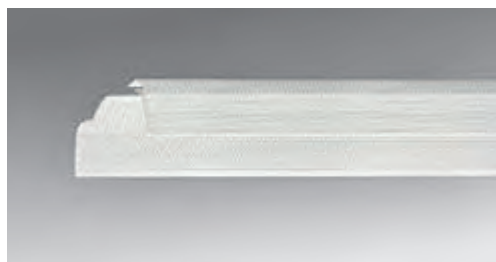


**Lighting technology SDR:**

- Direct narrow/wide distribution
- Lighting technology suitable for single and twin lamp T8 IP20 and IP54 and for single and twin lamp T5 IP54 configuration

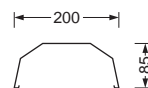


SDRI - Reflector, large, perforated



**Lighting technology SDRI:**

- Direct/indirect narrow/wide distribution
- Lighting technology suitable for single and twin lamp T8 IP20 configurations



SDT



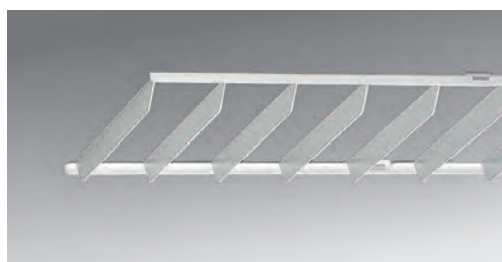
SDG



SDR

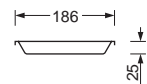


SDLR - cross blade louvre insert

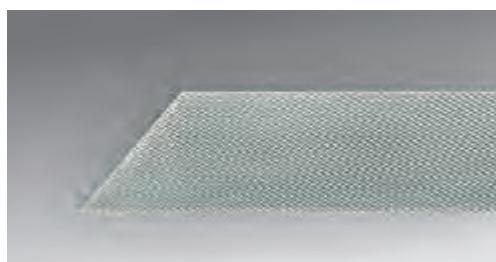


**Lighting technology SDLR:**

- Direct wide distribution via cross-blade louvre made of sheet steel, white-coated
- Lighting technology suitable for single and twin lamp T8 IP20 and T5 IP54 and for single and twin lamp T5 IP54 configuration

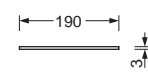


SDP - Diffuser pane insert, prismatic

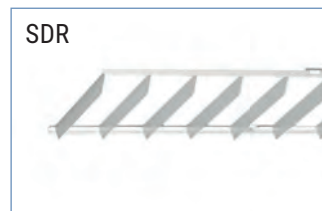


**Lighting technology SDP:**

- Direct distribution via diffuser, outer prismatic, of acrylic glass
- Lighting technology suitable for single and twin lamp T8 IP20 and T5 IP54 and for single and twin lamp T5 IP54 configuration

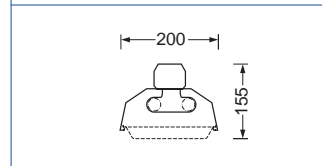
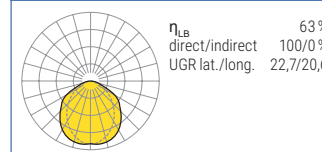
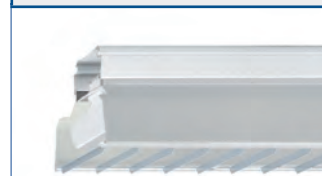


SDR



**Combination**

SDT+SDG+SDR+SDLR 2x T8 58 W





**Products**

Type	Unit	Colour	Details	LxBxH/DxH	Item number	kg
<i>Reflector large</i>						
SDR 1500	1500	vw	T8 IP20 1x... 2x...	1533 x 200 x 85	1870 5580 100	1,90
		wa	T8 IP20 1x... 2x...	1533 x 200 x 85	1870 5580 105	1,90
<i>Reflector large and perforated</i>						
SDRI 1500	1500	vw	T8 IP20 1x... 2x...	1533 x 200 x 85	1870 4580 100	1,72
<i>SDR insert - prismatic pane</i>						
SDP 1500	1500	tz	[SDR] T8 IP20 1x... 2x...	1535 x 190 x 3	1877 5580 100	0,79
<i>SDR/SDRI insert - cross-blade louvre</i>						
SDLR 1500	1500	vw	[SDR/SDRI] T8 IP20 1x... 2x...	1497 x 186 x 25	1871 7580 100	0,73

**Accessories**

Type	Colour	Material	Details	Item number	kg	
<i>Design</i>						
Kit of end pieces	SDRE	vw	PC	for SDR, SDRI	1891 0032 100	2 0,10
	SDRE	wa	PC	for SDR, SDRI	1891 0032 105	2 0,09

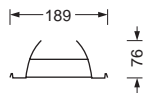
# Reflectors/reflector inserts T8 IP20



  **SDRD - Parabolic louvre insert, highly specular**



**Lighting technology SDRD:**

- High specular aluminium parabolic louvre with darklight reflector optics,  $65^\circ < 1000 \text{ cd/sqm}$  omnidirectional glare reduction for VDU workstations according to DIN EN 12464-1
- Lighting technology suitable for single lamp T8 IP20 configurations

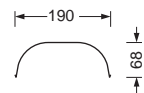


  **SDSB - Mirror reflector insert, highly specular**



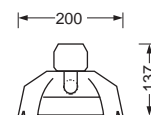
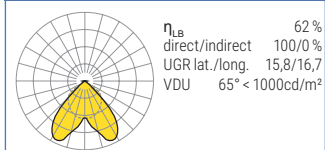
**Lighting technology SDSB:**

- Direct, wide distribution
- Lighting technology suitable for single and twin lamp T8 IP20 or single lamp T5 and T8 IP54 configuration




**Combination**

SDT+SDG+SDR+SDRD 1x T8 58 W



**Products**

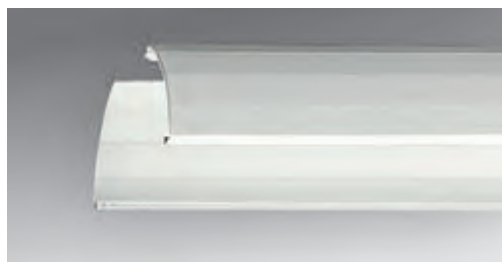
Type	Unit	Colour	Details	LxBxH/DxH	Item number	
<i>SDR insert - highly specular louvre</i>						
SDRD 1500	1500	aeh	[SDR] T8 IP20 1x...	1533 x 189 x 76	1886 5580 100	1,50
<i>SDR insert- wide distribution reflector</i>						
SDSB 1500	1500	aeh	[SDR] T8 IP20 1x... 2x...	1444 x 190 x 68	1872 7580 100	0,60



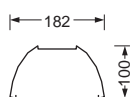


# Reflectors/reflector inserts T8 IP20

SMC - Comfort reflector, large



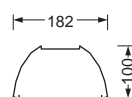
- Lighting technology SMC:**
- Direct, narrow/wide distribution
  - Lighting technology suitable for single and twin lamp T8 IP20 configurations



SMCI - Comfort reflector, perforated, large



- Lighting technology SMCI:**
- Direct/indirect, narrow/wide distribution
  - Lighting technology suitable for single and twin lamp T8 IP20 configurations



SDT



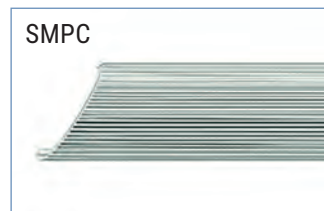
SDG



SMC



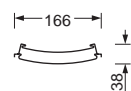
SMPC



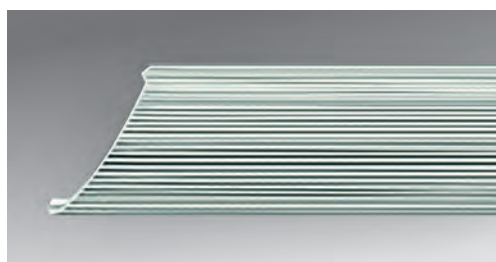
SMLRC - cross blade louvre insert



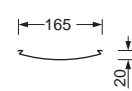
- Lighting technology SMLRC:**
- Direct wide distribution via cross-blade louvre made of sheet steel, white-coated
  - Lighting technology suitable for single and twin lamp T8 IP20 configurations



SMPC - Diffuser pane insert, prismatic

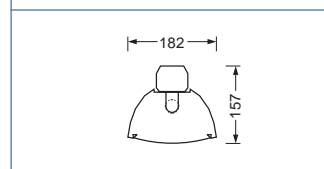
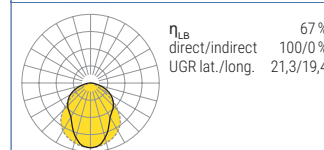


- Lighting technology SMPC:**
- Direct distribution via diffuser, outer prismatic, of acrylic glass
  - Lighting technology suitable for single and twin lamp T8 IP20 configurations



Combination

SDT+SDG+SMC+SMPC 1x T8 58 W





## Products

Type	Unit	Colour	Details	LxBxH/DxH	Item number	kg
<i>Comfort reflector large</i>						
SMC 1500	1500	vw	T8 IP20 1x... 2x...	1533 x 182 x 100	1888 9580 100	2,72
<i>Comfort reflector large and perforated</i>						
SMCI 1500	1500	vw	T8 IP20 1x... 2x...	1533 x 182 x 100	1888 1580 100	2,22
<i>SMC insert - pane with longitudinal prisms</i>						
SMPC 1500	1500	tz	[SMC] T8 IP20 1x... 2x...	1523 x 165 x 20	1877 1580 100	0,90
<i>SMC/SMCI insert - cross-blade louvre</i>						
SMLRC 1500	1500	vw	[SMC/SMCI] T8 IP20 1x... 2x...	1501 x 166 x 38	1889 1580 100	0,80

## Accessories

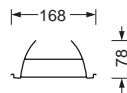
Type	Colour	Material	Details	Item number	kg
<i>Design</i>					
Kit of end pieces	SMCE	vw	PC for SMC, SMCI	1896 0030 100	2 0,20



# Reflectors/reflector inserts T8 IP20

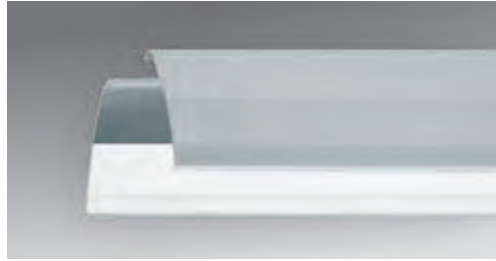
  SMSDC - Parabolic louvre insert, highly specular



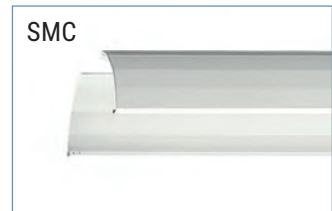
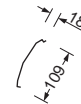
- Lighting technology SMSDC:**
- Highly specular aluminium parabolic louvre with darklight specular optics,  $65^\circ < 1000 \text{ cd/m}^2$  with omnidirectional glare reduction for VDU workstations according to DIN-EN 12464-1
  - Lighting technology suitable for single lamp T8 IP20 configuration





  2x SMSAC - Mirror reflector insert, highly specular



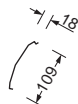
- Lighting technology 2x SMSAC:**
- Direct, wide distribution due to the use of the SMSAC reflector on both sides
  - Lighting technology suitable for single lamp T8 IP20 configurations



  SMSAC - Mirror reflector insert, highly specular

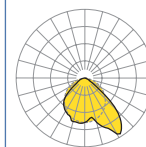
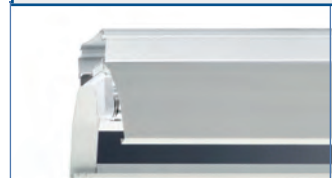


- Lighting technology SMSAC:**
- Direct, asymmetrical distribution
  - Lighting technology suitable for single lamp T8 IP20 configurations

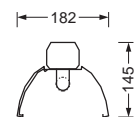


## Combination


SDT+SDG+SMC+1xSMSAC 1x T8 58 W



$\eta_{\text{Lb}}$  77%  
direct/indirect 100/0%  
UGR lat./long. 18,5/22,2



## Products

Type	Unit	Colour	Details	LxBxH/DxH	Item number	
<i>SMC insert - highly specular louvre</i>						
SMSDC 1500	1500	aeh	[SMC] T8 IP20 1x...	1533 x 168 x 78	1886 8580 100	0,64
<i>SMC insert - asymmetrical reflector</i>						
SMSAC 1500	1500	aeh	[SMC] T8 IP20 1x...	1460 x 109 x 18	1871 5580 100	0,28
<i>SMC insert - wide distribution</i>						
2x SMSAC 1500	1500	aeh	[SMC] T8 IP20 1x...	1460 x 109 x 18	2x 1 8715 580100	0,28

T5/T8 IP20/54





# Device mounts T8 IP54



NEW REGIOLUX 421

⊕ ⊖ ⊕ ⊕ CE  
IP 54

## Lighting technology SDGMS:

- Direct / indirect, general diffuse distribution

## Lamp:

- For fitting with lamp(s) T8

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated twist-locks
- With integrated seal to mounting rail and plastic seal to end faces
- Suitable for mounting light control components such as reflectors, mirrors etc.

## Switching:

- Llb A2 inductive
- Fixed device mount plug with tool-free phase preselection and locating finger



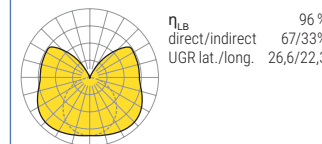
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGMS	1500	T8 1x58W	1531 x 55 x 107



## Combination

SDGMS 1x T8 58 W



**magnetic tough**

Everywhere LED and electronics fail, due to general conditions, fluorescent lamp technology T8 with magnetic ballast provides an answer. Simply a robust system.

## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>T8 - IP54</i>							
SDGMS	1500	T8 1x58W	62	vw	Llb A2 ind	1846 1581 110	3,90

## Accessories

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Power factor correction	KO 7,0	me	Mix	7.0µF for T8 1/58	8415 0070 100 1 0,04
<i>Protection</i>					
Protective wire cage	SMD 1500	blcr	St.galv.	for SDG... 1500	1885 2580 100 1 2,00
Protective cage mounting	HB -SMD 1200/1500	vw	St.galv.	for SMD.	1885 2000 100 2 0,10
Lamp protection tube	KSR T8 58/1500	kl	PC	for SDGS 58 EVG/HF	9238 5580 100 1 0,29

## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01





# Device mounts T5/T8 IP54



### Lighting technology SDGS:

- Direct / indirect, general diffuse distribution

### Lamp:

- For fitting with lamp(s) T5 or T8

### Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated twist-locks
- With integrated seal to mounting rail and plastic seal to end faces
- Suitable for mounting light control components such as reflectors, mirrors etc.

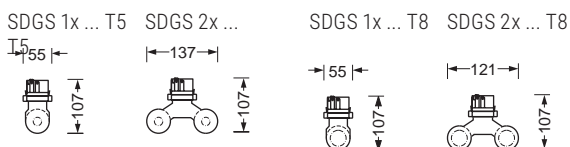
### Switching:

- 1 Control gear
- Electronic ballast
- Fixed device mount plug with tool-free phase preselection and locating finger



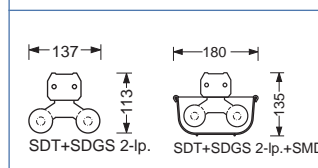
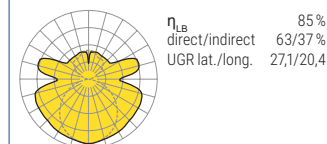
### Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGS	1500	T5 1x35, 49, 80 W	1531 x 55 x 107
	1500	T5 2x35, 49, 80 W	1531 x 121 x 107
	1500	T8 1x58W	1531 x 55 x 107
	1500	T8 2x58W	1531 x 121 x 107



### Combination

SDT+SDGS 2x T5 49 W



### Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<b>T5 - IP54</b>							
SDGS	1500	T5 1x35/49/80W	52	vw	ECG	1846 1954 100	1,28
		T5 2x35/49W	104	vw	ECG	1846 2964 100	1,33
<b>T8 - IP54</b>							
SDGS	1500	T8 1x58W	55	vw	ECG	1846 1584 100	1,28
		T8 2x58W	110	vw	ECG	1846 2584 100	1,33

### Accessories

Type	Colour	Material	Details	Item number	kg
<b>Protection</b>					
Protective wire cage	SMD 1500	blcr	St.galv. for SDG... 1500	1885 2580 100	1 2,00
Protective cage mounting	HB -SMD 1200/1500	vw	St.galv. for SMD.	1885 2000 100	2 0,10
Lamp protection tube	KSR T5 35/49/1500	kl	PC for SDGS 35/49	9238 5950 100	1 0,28
	KSR T8 58/1500	kl	PC for SDGS 58 EVG/HF	9238 5580 100	1 0,29

### Replacement parts

Type	Colour	Material	Details	Item number	kg
<b>Electrical technology</b>					
Contact pin	SDG-Contact 1-Pol	me	St+mix for SDT	9200 0267 101	10 0,01



# Device mounts T5/T8 IP54



## Lighting technology SDGFF:

- Direct / indirect, general diffuse distribution

## Lamp:

- For fitting with lamp(s) T5 or T8

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two integrated twist-locks
- With integrated seal to mounting rail and plastic seal to end faces
- Fluorescent lamp enclosed with protective glass tube for high fire risk areas
- Suitable for mounting light control components such as reflectors, mirrors etc.

## Switching:

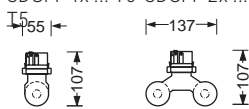
- 1 Control gear
- Electronic ballast
- Fixed device mount plug with tool-free phase preselection and locating finger



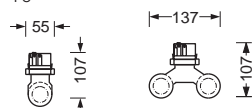
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGFF	1500	T5 1x35, 49, 80 W	1531 x 55 x 107
	1500	T5 2x35, 49, 80 W	1531 x 137 x 107
	1500	T8 1x58W	1531 x 55 x 105
	1500	T8 2x58W	1531 x 137 x 105

SDGFF 1x ... T5 SDGFF 2x ...

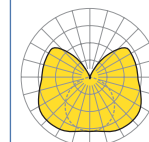


SDGFF 1x ... T8 SDGFF 2x ... T8



## Combination

SDT+SDGFF 1x T8 58 W



$\eta_{\text{la}}$  81 %  
Direkt/Indirekt 66/34 %  
UGR lat./long. 24,9/19,9



SDT+SDGFF 1-lp.



SDT+SDGFF 1-lp.+SMD

## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>T5 - IP54 with protective tube</i>							
SDGFF	1500	T5 1x35/49W	52	vw	ECG	1844 1964 110	1,64
		T5 2x35/49W	104	vw	ECG	1844 2964 110	1,92
<i>T8 - IP54 with protective tube</i>							
SDGFF	1500	T8 1x58W	55	vw	ECG	1844 1584 110	1,62
		T8 2x58W	110	vw	ECG	1844 2584 110	1,92

## Accessories

Type	Colour	Material	Details	Item number	kg
<i>Protection</i>					
Protective wire cage	SMD 1500	blcr	St.galv.	for SDG... 1500	1885 2580 100 1 2,00
Protective cage mounting	HB -SMD 1200/1500	vw	St.galv.	for SMD.	1885 2000 100 2 0,10

## Replacement parts

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01



# Device mounts T5 IP54



## Lighting technology SDGRS:

- Direct, wide distribution via reflector with inner specular reflectors of highly specular anodised aluminium and clear cover pane

## Lamp:

- For fitting with lamp(s) T5

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two screw-fixable spring locks
- With integrated seal to mounting rail and plastic seal to end faces
- In a unit with the sheet steel reflector with a clear, stable cover pane in aluminium frame profile with integrated PU foam seal, hinged down on both sides and self-engaging
- Cover pane for SDGRS made of acrylic sheet and for SDGRS-ESG made of single-pane safety glass

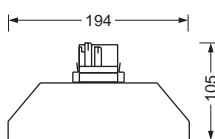
## Switching:

- 1 Control gear
- Electronic ballast
- Fixed device mount plug with tool-free phase preselection and locating finger



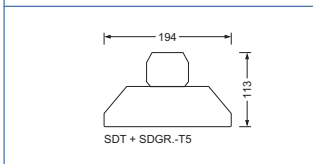
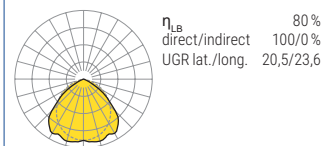
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGR.	1500	T5 2x35, 49, 80 W	1533 x 194 x 105



## Combination

SDT+SDGRS 2x T5 49 W



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>T5 - IP54 with reflector and cover pane</i>							
SDGRS	1500	T5 2x35/49W	104	vw	ECG EM pack B3	1880 2967 700	6,60
		T5 2x35/49/80W	104	vw	ECG	1880 2954 100	5,80
<i>T5 - IP54 with reflector, and glass cover pane</i>							
SDGRS-ESG	1500	T5 2x35/49/80W	104	vw	ECG	1881 2954 100	7,00

## Accessories

Type	Colour	Material	Details	Item number	kg	
<i>Mounting</i>						
Tool	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1 0,08

## Replacement parts

Type	Colour	Material	Details	Item number	kg	
<i>Electrical technology</i>						
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101	10 0,01



T5/T8 IP20/54

# Device mounts T5 IP54



## Lighting technology SDGRLRS:

- Direct, wide distribution via reflector with inner specular reflectors of highly specular anodised aluminium, cross-blade louvre and clear cover pane

## Lamp:

- For fitting with lamp(s) T5

## Housing:

- Pre-galvanised sheet steel surface coated with polyester resin
- Installation without tools with two screw-fixable spring locks
- With integrated seal to mounting rail and plastic seal to end faces
- In a unit with the sheet steel reflector with a clear, stable cover pane in aluminium frame profile with integrated PU foam seal, hinged down on both sides and self-engaging
- Cover pane for SDGRS made of acrylic sheet and for SDGRS-ESG made of single-pane safety glass

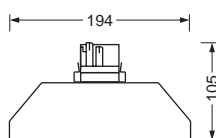
## Switching:

- 1 Control gear
- Electronic ballast
- Fixed device mount plug with tool-free phase preselection and locating finger



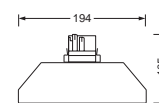
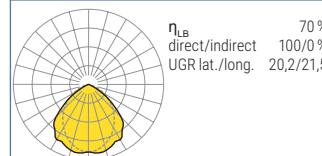
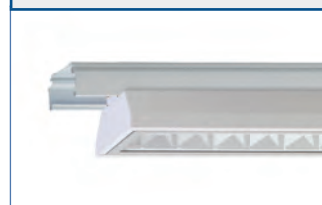
## Dimensions

Type	Unit	Versions	LxBxH/DxH
SDGR.	1500	T5 2x35, 49, 80 W	1533 x 194 x 105



## Combination

SDT+SDGRLRS 2x T5 49 W



## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>T5 - IP54 with reflector, cross-blade louvre and cover pane</i>							
SDGRLRS	1500	T5 2x35/49/80W	104	vw	ECG	1880 2954 120	6,20

## Accessories

Type	Colour	Material	Details	Item number	kg	
<i>Mounting</i>						
Tool	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1 0,08

## Replacement parts

Type	Colour	Material	Details	Item number	kg	
<i>Electrical technology</i>						
Contact pin	SDG -Contact 1-Pol	me	St+mix	for SDT	9200 0267 101	10 0,01





# Device mounts IP54



CE  
IP 54

**Housing:**

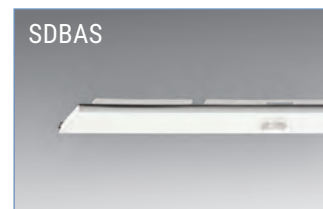
- Pre-galvanised sheet steel surface coated with polyester resin
- Blind unit for bridging empty light run units
- Suitable for mounting light control components such as reflectors, mirrors etc.
- With integrated seal to mounting rail and plastic seal to end faces

**Switching:**

- Device mount plug with locating finger for earthing

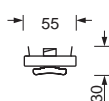
**Details:**

- Accessories for SDT IP54 1500

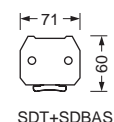


**Dimensions**

Type	Unit	Versions	LxBxH/DxH
SDBAS 1500	1500	-	1536 x 55 x 30



**Combination**



**Products**

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>IP54 blank cover of metal - fixing reflector</i>							
SDBAS 1500	1500	-	-	vw	-	1882 6580 100	0,89

**Replacement parts**

Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>					
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101 10 0,01



# Sensor device mounts IP54



## SDBAS M12

Sensor unit with attached motion sensor for daylight linking and presence-dependent control, wired ready for connection via integrated 11-pole plug connector.

System components used: motion sensor LC-BEG PD4-M-DALI-AP  
Functions: presence-dependent control of up to 50 DALI nodes  
See Light Control chapter for description.

Type	LxBxH/DxH	Item number		
SDBAS M12 1500	1536 x 102 x 105	8418 1027 205	1	1,20

## Accessories

Type	Colour	Material	Details	Item number			
<i>Electrical technology</i>							
Light Control	LC-BEG IR-PD-DALI-E	-	-	Remote control and programming tool	8450 6028 100	1	0,03
	LC-BEG IR-RC	-	-	Remote control and programming adapter	8450 6021 100	1	0,04



## SDBAS S10

Sensor unit with attached motion sensor for daylight-and presence-dependent switching, wired ready for connection via integrated 11-pole plug connector, with oval, longitudinal detection range.

System components used: motion sensor LC-BEG PD4-M-1C-GH-AP  
Functions: presence-dependent switching up to 2300 W,  $\cos\phi=1$   
See Light Control chapter for description.

Type	LxBxH/DxH	Item number		
SDBAS S10 1500	1536 x 102 x 105	8418 1027 203	1	1,20

## Accessories

Type	Colour	Material	Details	Item number			
<i>Electrical technology</i>							
Light Control	LC-BEG IR-PD4-GH	-	-	Remote control and programming tool	8450 6006 100	1	0,04
	LC-BEG IR-RC	-	-	Remote control and programming adapter	8450 6021 100	1	0,04



## SDBAS S20

Sensor unit with attached motion sensor for daylight linking and presence-dependent switching, wired ready for connection via integrated 11-pole plug connector.

System components used: motion sensor LC-BEG PD4-M-1C-AP  
Functions: presence-dependent switching up to 2300 W,  $\cos\phi=1$   
See Light Control chapter for description.

Type	LxBxH/DxH	Item number		
SDBAS S20 1500	1536 x 102 x 105	8418 1027 204	1	1,20

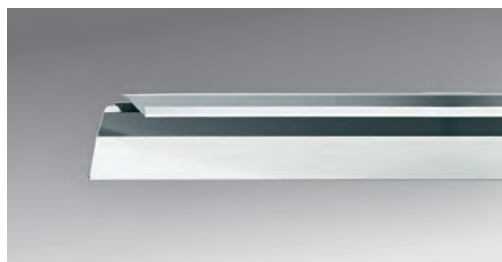
## Accessories

Type	Colour	Material	Details	Item number			
<i>Electrical technology</i>							
Light Control	LC-BEG IR-PD-E	-	-	Remote control and programming tool	8450 6027 100	1	0,04
	LC-BEG IR-RC	-	-	Remote control and programming adapter	8450 6021 100	1	0,04

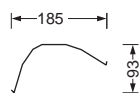


# Self-supporting reflectors T5/T8 IP54

SDFA - Self-supporting mirror reflector



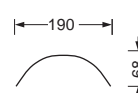
- Lighting technology SDFA:**
- Direct, asymmetrical distribution
  - Light technology suitable for single lamp T8 IP20 and IP54 configuration
  - Additionally suited for single lamp T5 and T8 IP54 configuration



SDFT - Self-supporting mirror reflector



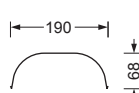
- Lighting technology SDFT:**
- Direct, narrow distribution
  - Lighting technology suitable for single lamp T5 IP54 and single lamp T8 IP20 and IP54 configuration



SDFB - Self-supporting mirror reflector



- Lighting technology SDFB:**
- Direct light distribution, wide-beam
  - Lighting technology suitable for single and twin lamp configuration T8 IP20 or single lamp T5 and T8 IP54 configuration



SDHS - Self-supporting mirror reflector

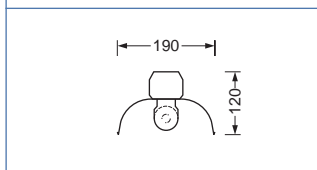
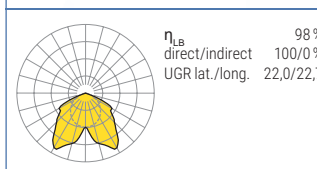


- Lighting technology SDHS:**
- Direct, extremely narrow distribution
  - Lighting technology suitable for single lamp T5 IP54 or single lamp T8 IP20 and IP54 configuration



Combination

SDT+SDGS+SDFB 1x T5 80 W



## Products

Type	Unit	Colour	Details	LxBxH/DxH	Item number	kg
<i>Self-supporting mirror reflector direct asymmetrical distribution</i>						
SDFA T8 1500	1500	aeh	T5 IP54 1x... T8 IP54 1x...	1550 x 185 x 93	1873 6580 100	0,53
<i>Self-supporting mirror reflector direct wide distribution</i>						
SDFB T8 1500	1500	aeh	T5 IP54 1x... T8 IP54 1x...	1550 x 190 x 68	1873 3580 100	0,59
<i>Self-supporting mirror reflector direct extremely narrow distribution</i>						
SDHS T8 1500	1500	aeh	T5 IP54 1x... T8 IP54 1x...	1550 x 224 x 90	1870 7580 100	0,70
<i>Self-supporting mirror reflector direct narrow distribution</i>						
SDFT T8 1500	1500	aeh	T5 IP54 1x... T8 IP54 1x...	1550 x 190 x 68	1873 4580 100	0,56

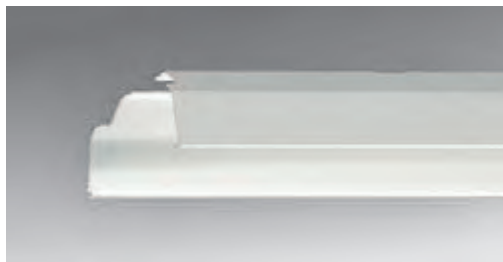






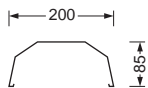
# Reflectors/reflector inserts T5/T8 IP54

SDR - Reflector, large

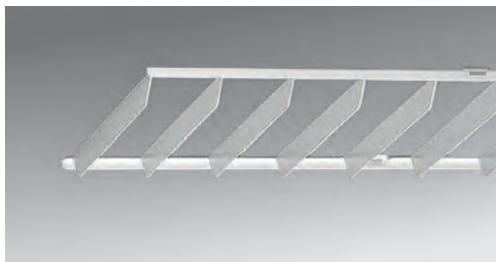


**Lighting technology SDR:**

- Direct narrow/wide distribution
- Lighting technology suitable for single and twin lamp T8 IP20 and IP54 and for single and twin lamp T5 IP54 configuration

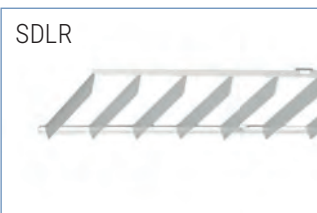
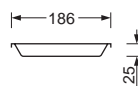


SDLR - cross blade louvre insert

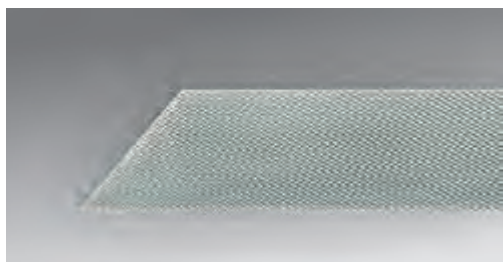


**Lighting technology SDLR:**

- Direct wide distribution via cross-blade louvre made of sheet steel, white-coated
- Lighting technology suitable for single and twin lamp T8 IP20 and T5 IP54 and for single and twin lamp T5 IP54 configuration

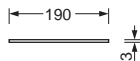


SDP - Diffuser pane insert, prismatic



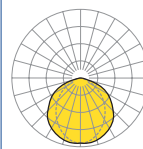
**Lighting technology SDP:**

- Direct distribution via diffuser, outer prismatic, of acrylic glass
- Lighting technology suitable for single and twin lamp T8 IP20 and T5 IP54 and for single and twin lamp T5 IP54 configuration

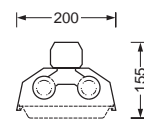


**Combination**

SDT+SDGS+SDR+SDLR 2x T8 58 W



$\eta_{LB}$  66%  
direct/indirect 100/0%  
UGR lat./long. 23,4/20,6



**Products**

Type	Unit	Colour	Details	LxBxH/DxH	Item number	kg
<i>Reflector large</i>						
SDR 1500	1500	vw	T5 IP54 1x... 2x... T8 IP54 1x... 2x...	1533 x 200 x 85	1870 5580 100	1,90
<i>SDR insert - prismatic pane</i>						
SDP 1500	1500	tz	[SDR] T5 IP54 1x... 2x... [SDR] T8 IP54 1x... 2x...	1535 x 190 x 3	1877 5580 100	0,79
<i>SDR/SDRI insert - cross-blade louvre</i>						
SDLR 1500	1500	vw	[SDR] T5 IP54 1x... 2x... [SDR] T8 IP54 1x... 2x...	1497 x 186 x 25	1871 7580 100	0,73

**Accessories**

Type	Colour	Material	Details	Item number	kg	
<i>Design</i>						
Kit of end pieces	SDRE	vw	PC	for SDR, SDRI	1891 0032 100	2 0,10
	SDRE	wa	PC	for SDR, SDRI	1891 0032 105	2 0,09

# Reflector insert T5/T8 IP54

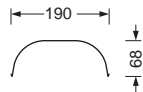


SDSB - Mirror reflector insert, highly specular



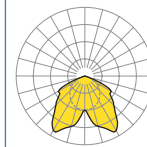
**Lighting technology SDSB:**

- Direct, wide distribution
- Lighting technology suitable for single and twin lamp T8 IP20 or single lamp T5 and T8 IP54 configuration

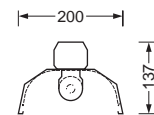


**Combination**

SDT+SDGS+SDR+SDSB 1x T5 80 W



$\eta_{La}$  98 %  
direct/indirect 100/0 %  
UGR lat./long. 21,9/22,6



**Products**

Type	Unit	Colour	Details	LxBxH/DxH	Item number	kg
<i>SDR insert- wide distribution reflector</i>						
SDSB 1500	1500	aeh	[SDR] T5 IP54 1x... [SDR] T8 IP54 1x...	1444 x 190 x 68	1872 7580 100	0,60





# Refurbishment device mounts for SMT- & SPT-mounting rails

## Restoration of light runs - because cost-effectiveness is key

Light runs of the rapid-installation mounting system SMT and SPT have been operational for 25 years and longer. These lighting systems were often not continuously adjusted to the state of technology. This leads to a significant energy savings potential. But it is not always necessary to replace the whole system. A cost-efficient and easy mounting renovation by exchanging the existing device mounts with refurbishment device mounts the whole system will meet the changed economic, ecologic and ergonomic requirements: Energy costs are reduced, the lower consumption is less of a burden to the environment, the maintenance intervals are improved and the lighting situation of the object is enhanced. The refurbishment device mounts can then either be equipped with the latest lighting technology or, if the existing reflectors only need to be cleaned, then these are re-integrated into the new system.



T5/T8 IP20/54





**Lighting technology SDGE:**

- open distribution
- Lighting characteristic general diffuse

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Housing:**

- Refurbishment device mount with two lateral lever locks, made of galvanised, profiled sheet steel, surface coated with polyester resin enamel; LED unit made of natural anodised extruded aluminium profile, end faces made of plastic; fixed 3-pole rapid installation plug connector for the SMT and SPT mounting rail systems with tool-free phase preselection and locating finger

**Switching:**

- 1 Control gear
- Electronic driver
- Fixed device mount plug with tool-free phase preselection and locating finger

**Accessories:**

- Can be combined with the self-supporting specular reflectors SDFA LED, SDFB LED, SDFT LED and SDFH LED.



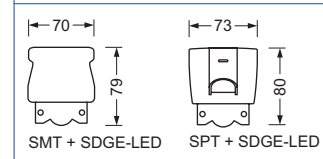
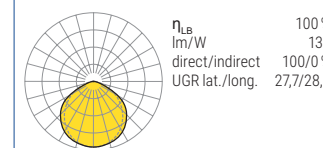
**Dimensions**

Type	Unit	Versions	LxBxH/DxH
SDGE	1500	LED	1531 x 55 x 62



**Combination**

SMT/SPT+SDGE/1500 LED 7000 lm 840



T5/T8 IP20/54

**Products**

Type	Unit	Lamps	$P_{sys}$ [W]	Colour	Ballast	Item number	kg
<i>LED - For SMT/SPT systems</i>							
SDGE	1500	LED 7000lm 840	62	vw	ED	1804 2014 100	2,70

**Accessories**

	Type	Colour	Material	Details	Item number	kg
<i>Lighting technology</i>						
Reflector, asymmetrical distribution	SDFA LED 1500	aes	Al	for SDGV/SDGS 1500 LED	1873 6000 100	1 0,17
Reflector, wide distribution	SDFB LED 1500	aes	Al	for SDGV/SDGS 1500 LED	1873 3000 100	1 0,14
Reflector, extremely narrow distribution	SDFH LED 1500	aeH	Al	for SDGV/SDGS 1500 LED	1873 9000 100	1 0,15
Reflector, narrow distribution	SDFT LED 1500	aes	Al	for SDGV/SDGS 1500 LED	1873 4000 100	1 0,14

**Replacement parts**

	Type	Colour	Material	Details	Item number	kg
<i>Electrical technology</i>						
Contact pin	SDG-Contact 1-Pol	me	St+mix	for SDT	9200 0267 101	10 0,01

# Refurbishment device mounts T5 IP20



## Lighting technology SDGE:

- open distribution
- Lighting characteristic direct/indirect distribution

## Lamp:

- For fitting with lamp(s) T5 or T8

## Housing:

- Refurbishment device mount made of galvanised, profiled sheet steel; surface with polyester resin enamel coating; with two rotary catches
- With fixed rapid installation plug connector for the mounting rail systems SMT and SPT with tool-free phase preselection and locating finger
- Suitable for the mounting of reflectors and mirrors

## Switching:

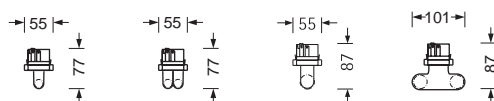
- 1 Control gear
- Electronic ballast
- Fixed device mount plug with tool-free phase preselection and locating finger



## Dimensions

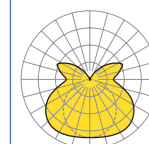
Type	Unit	Versions	LxBxH/DxH
SDGE	1500	T5 1x35, 49, 80 W	1533 x 55 x 77
	1500	T5 2x35, 49, 80 W	1533 x 55 x 77
	1500	T8 1x58W	1533 x 55 x 87
	1500	T8 2x58W	1533 x 101 x 87

SDGE 1x ... T5   SDGE 2x ... T5   SDGE 1x ... T8   SDGE 2x ... T8

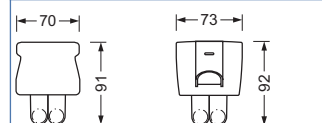


## Combination

SMT/SPT+SDGE 2x T5 49 W



$\eta_{Lb}$  100 %  
direct/indirect 76/24 %  
UGR lat./long. 28,8/25,6



SMT + SDGE-T5 2-lp.   SPT + SDGE-T5 2-lp.

## Products

Type	Unit	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	Item number	kg
<i>T5 - For SMT/SPT systems</i>							
SDGE	1500	T5 1x35/49/80W	52	vw	ECG	1804 1954 100	1,00
		T5 2x35/49W	104	vw	ECG	1804 2964 100	1,10
<i>T8 - For SMT/SPT systems</i>							
SDGE	1500	T8 1x58W	55	vw	ECG	1804 1584 100	1,00
		T8 2x58W	110	vw	ECG	1804 2584 100	1,10

## Accessories

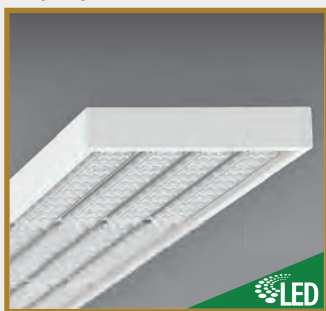
Type	Colour	Material	Details	Item number	kg
<i>Design</i>					
Section cover	SDBK 1500	vw	PVC	for SDT 1500, ATS	1883 7580 100   1   0,24
<i>Protection</i>					
Protective wire cage	SMD 1500	blcr	St.galv.	for SDG... 1500	1885 2580 100   1   2,00
Protective cage mounting	HB -SMD 1200/1500	vw	St.galv.	for SMD.	1885 2000 100   2   0,10





# High bay reflector and field luminaires

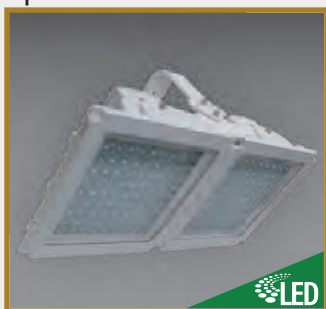
worker



▶439

- ▶ 442 WOHB LED
- ▶ 442 WOHTB LED
- ▶ 442 WOHT LED

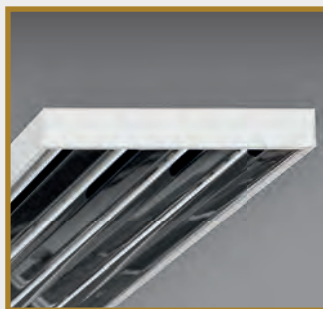
quanta



▶447

- ▶ 448 QNSB LED
- ▶ 448 QNLT LED

hara



▶451

- ▶ 452 HRHB T5
- ▶ 452 HRHTB T5
- ▶ 452 HRHTB/2 T5
- ▶ 452 HRHT T5
- ▶ 454 HRHSB T5
- ▶ 454 HRHSTB T5
- ▶ 454 HRHSTB/2 T5
- ▶ 454 HRHST T5
- ▶ 456 HRHSB T5









# worker

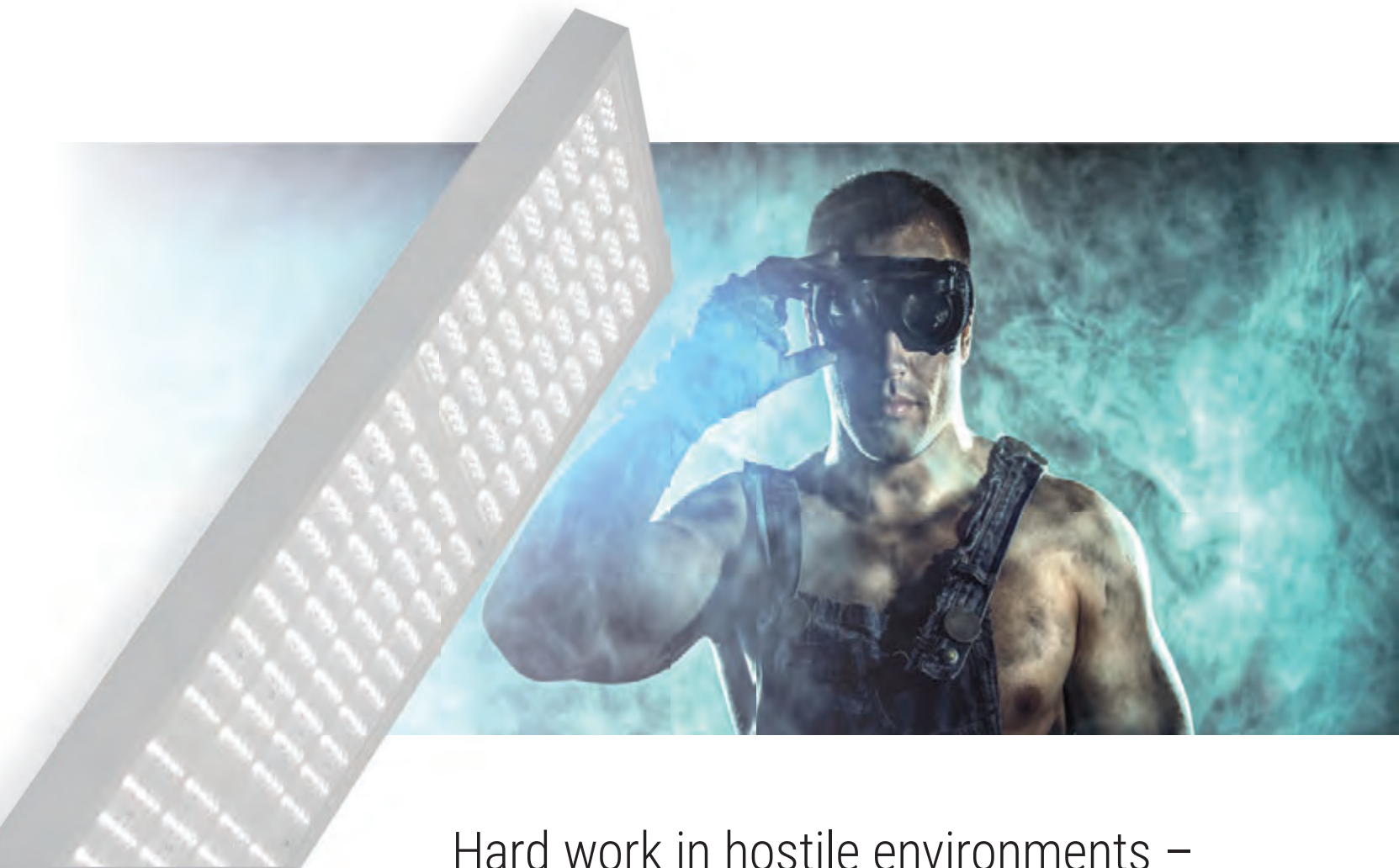
## worker – the energy bar for hard work

A high-bay luminaire has to be robust and versatile if it is to cope with all the stresses of everyday situations. That is why we paid particular attention to that aspect when we were developing this universal high-bay luminaire. Rigidity is provided by a laser-welded sheet steel housing with IP54 protection rating that does not need re-opening for installation. The lighting technology with Individual.Lens.Optic (I.L.O) provides the versatility with different lumen packages. Worker – a genuine energy bar for your high-bay lighting requirements



### Type overview

- ▶ WOHB Individual.Lens.Optic direct wide distribution
- ▶ WOHTB Individual.Lens.Optic direct narrow/wide distribution IP 54
- ▶ WOHT Individual.Lens.Optic direct narrow distribution



Hard work in hostile environments –  
the “worker” can do it



## High Output

## High Temperature

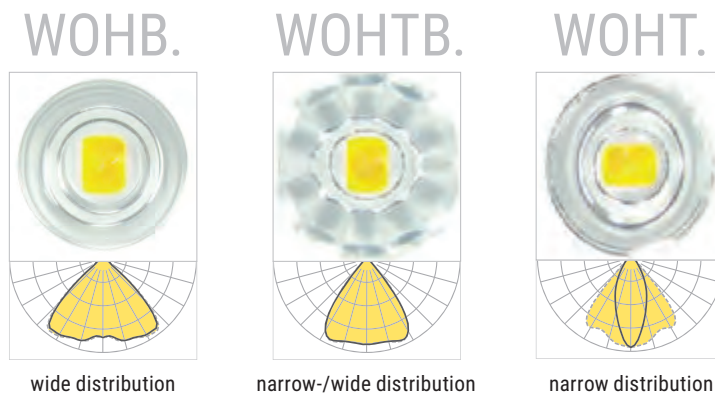
Ambient temperature (Ta) -20°	to +35°	to +40°		to +40°	to +45°
Mounting	Suspended + Surface	Suspended + Surface		Sus-pended	Sus-pended
Service life	50.000h	50.000h		50.000h	50.000h
worker-WOHB/700 14700lm 840	L80/B10	L80/B50			
worker-WOHTB/700 14800lm 840	L80/B10	L80/B50			
worker-WOHT/700 14800lm 840	L80/B10	L80/B50			
worker-WOHB/1000 22200lm 840	L80/B10	L80/B50	worker-WOHB/1000 21200lm 840 45°C	L80/B10	L80/B50
worker-WOHTB/1000 22200lm 840	L80/B10	L80/B50	worker-WOHTB/1000 21200lm 840 45°C	L80/B10	L80/B50
worker-WOHT/1000 22300lm 840	L80/B10	L80/B50	worker-WOHT/1000 21300lm 840 45°C	L80/B10	L80/B50
worker-WOHB/1300 29600lm 840	L80/B10	L80/B50	worker-WOHB/1300 28300lm 840 45°C	L80/B10	L80/B50
worker-WOHTB/1300 29600lm 840	L80/B10	L80/B50	worker-WOHTB/1300 28400lm 840 45°C	L80/B10	L80/B50
worker-WOHT/1300 29800lm 840	L80/B10	L80/B50	worker-WOHT/1300 28500lm 840 45°C	L80/B10	L80/B50

## Ready for the challenge

- Robust high bay field luminaire with protection rating IP54 with D-marking
- Output levels from 14,700 to 29,800 lumen
- LED service life assured at 50,000 hours
- Efficient, anti-glare lighting technology with Individual.Lens.Optic
- Lighting characteristics from wide, through narrow/wide to narrow distribution



## Individual.Lens.Optic



- Suitable for ambient temperatures of -20°C to +45°C
- For use in the food industry
- Daylight control and presence function on request





# worker LED



**Mounting:**

- Suspended
- Ceiling surface

**Housing:**

- Sheet steel housing, powder-coated

**Lighting technology WOHB:**

- Individual.Lens.Optic; PMMA plastic
- Lighting characteristic direct wide distribution

**Lighting technology WOHTB:**

- Individual.Lens.Optic; PMMA plastic
- Lighting characteristic direct narrow/wide distribution

**Lighting technology WOHT:**

- Individual.Lens.Optic; PMMA plastic
- Lighting characteristic direct narrow distribution

**Lamp:**

- LED 50000h L80/B10 resp. at Ta max. 50000h L80/B50
- CRI ≥ 80 / 4000K

**Switching:**

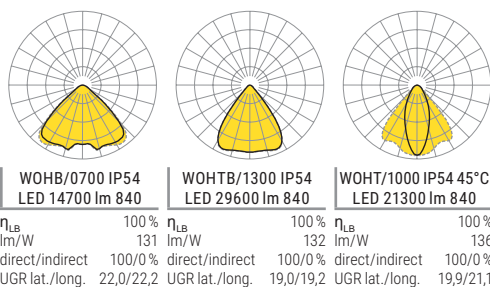
- Electronic driver
- 230V 50Hz

**Miscellaneous:**

- Electrical connection via connection cable 2,3 m

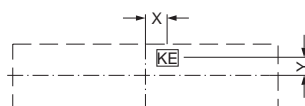
**Accessories:**

- Surface-mounting kit DW 235/80 for ceiling mounting and suspension kit KSH 4 or KKH 4 for chain suspension must be ordered separately.

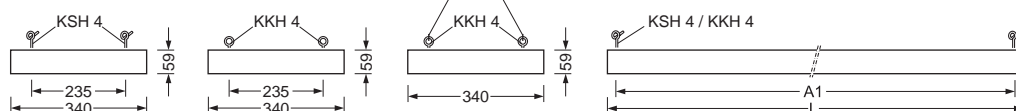


**Dimensions**

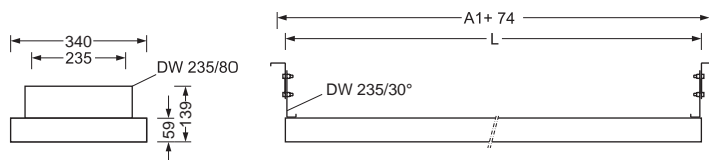
Type	Versions	LxBxH/DxH	A1	A4	KE X/Y
WOH./0700	LED	688 x 340 x 59	655	235	261 / 0
WOH./1000	LED	1013 x 340 x 59	980	235	423,5 / 0
WOH./1300	LED	1338 x 340 x 59	1305	235	586 / 0



**Suspended mounting**



**Surface mounting**



**Accessories**

Type	Colour	Material	Details	Item number	kg
<b>Mounting</b>					
Chain suspension	KK	me	St	Chain l=30m, für SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100 1 4,60
	KKH 4	me	St	Chain carabiner suspension kit for worker, sportler, hara	3729 0004 100 4 0,11
	KKY 2	me	St	Chain carabiner set for Y suspension	3729 0005 100 2 0,03
	KSH 4	me	St	Chain hook suspension kit for worker, hara luminaires	3729 0002 100 4 0,09
Mounting-ceiling	DW 235/80 vw		St	Ceiling brackets for worker, hara	3729 0001 100 2 1,00



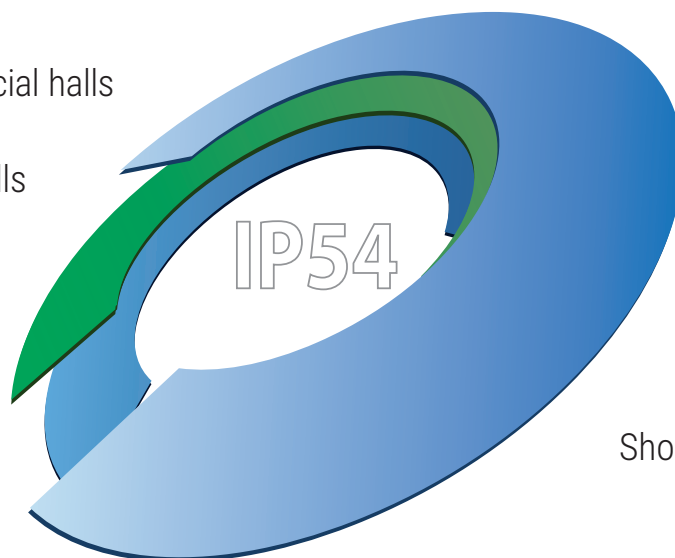
Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Individual.Lens.Optic direct wide distribution</i>							
worker-WOHB/0700 IP54	LED 14700lm 840	112	vw	ED	688 x 340 x 59	3744 0124 110	6,40
				DALI	688 x 340 x 59	3744 0126 610	6,40
worker-WOHB/1000 IP54	LED 22200lm 840	168	vw	ED	1013 x 340 x 59	3744 0224 110	9,00
				DALI	1013 x 340 x 59	3744 0226 610	9,00
worker-WOHB/1000 IP54 45°C	LED 21200lm 840	157	vw	ED	1013 x 340 x 59	3744 0214 110	9,00
				DALI	1013 x 340 x 59	3744 0216 610	9,00
worker-WOHB/1300 IP54	LED 29600lm 840	224	vw	ED	1338 x 340 x 59	3744 0324 110	11,40
				DALI	1338 x 340 x 59	3744 0326 610	11,40
worker-WOHB/1300 IP54 45°C	LED 28300lm 840	210	vw	ED	1338 x 340 x 59	3744 0314 110	11,40
				DALI	1338 x 340 x 59	3744 0316 610	11,40
<i>Individual.Lens.Optic direct narrow/wide distribution IP 54</i>							
worker-WOHTB/0700 IP54	LED 14800lm 840	112	vw	ED	688 x 340 x 59	3744 0124 130	6,40
				DALI	688 x 340 x 59	3744 0126 630	6,40
worker-WOHTB/1000 IP54	LED 22200lm 840	168	vw	ED	1013 x 340 x 59	3744 0224 130	9,00
				DALI	1013 x 340 x 59	3744 0226 630	9,00
worker-WOHTB/1000 IP54 45°C	LED 21200lm 840	157	vw	ED	1013 x 340 x 59	3744 0214 130	9,00
				DALI	1013 x 340 x 59	3744 0216 630	9,00
worker-WOHTB/1300 IP54	LED 29600lm 840	224	vw	ED	1338 x 340 x 59	3744 0324 130	11,40
				DALI	1338 x 340 x 59	3744 0326 630	11,40
worker-WOHTB/1300 IP54 45°C	LED 28400lm 840	210	vw	ED	1338 x 340 x 59	3744 0314 130	11,40
				DALI	1338 x 340 x 59	3744 0316 630	11,40
<i>Individual.Lens.Optic direct narrow distribution</i>							
worker-WOHT/0700 IP54	LED 14800lm 840	112	vw	ED	688 x 340 x 59	3744 0124 120	6,40
				DALI	688 x 340 x 59	3744 0126 620	6,40
worker-WOHT/1000 IP54	LED 22300lm 840	168	vw	ED	1013 x 340 x 59	3744 0224 120	9,00
				DALI	1013 x 340 x 59	3744 0226 620	9,00
worker-WOHT/1000 IP54 45°C	LED 21300lm 840	157	vw	ED	1013 x 340 x 59	3744 0214 120	9,00
				DALI	1013 x 340 x 59	3744 0216 620	9,00
worker-WOHT/1300 IP54	LED 29800lm 840	224	vw	ED	1338 x 340 x 59	3744 0324 120	11,40
				DALI	1338 x 340 x 59	3744 0326 620	11,40
worker-WOHT/1300 IP54 45°C	LED 28500lm 840	210	vw	ED	1338 x 340 x 59	3744 0314 120	11,40
				DALI	1338 x 340 x 59	3744 0316 620	11,40



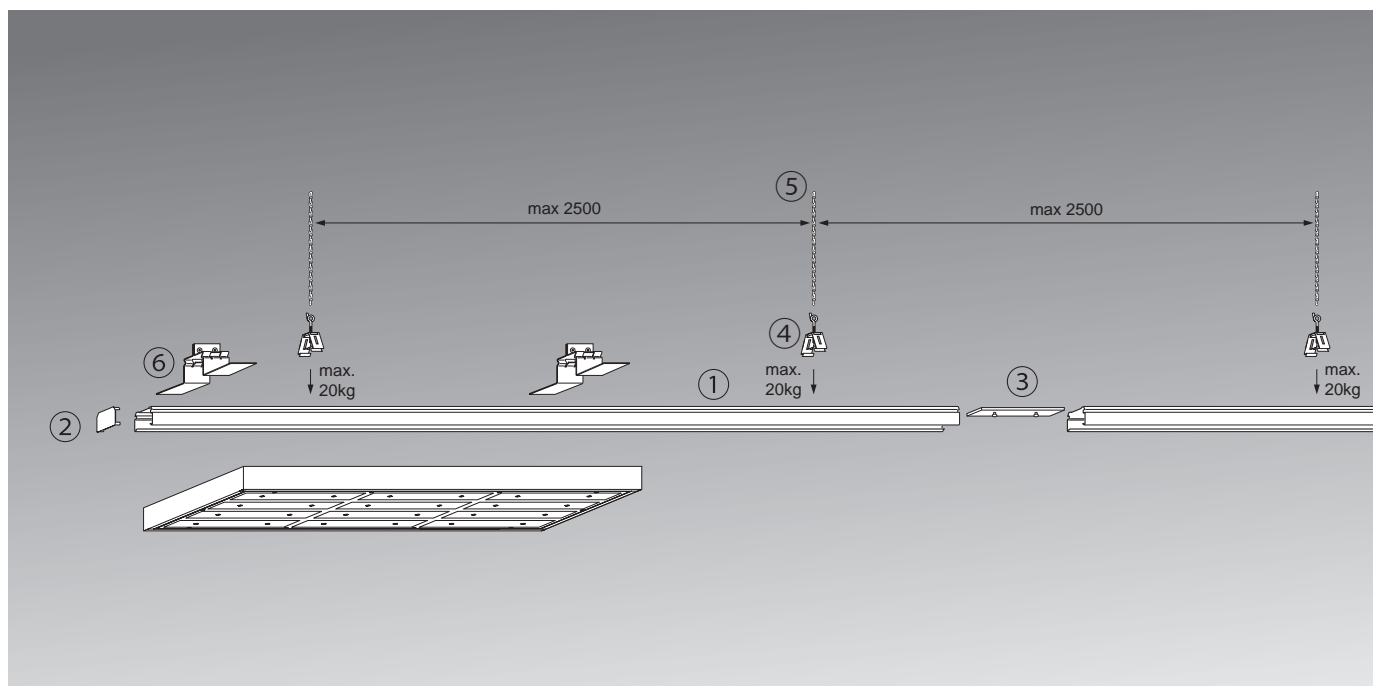
## Areas of application

Industrial and commercial halls  
Production and storage halls  
High-bay warehouses  
Logistics centres



DIY stores  
Cold storages  
Commercial kitchens  
Shopping centres





- ① SDT basic unwired mounting rail
- ② SDTSV mounting rail connector
- ③ SDTE mounting rail protective cover (end face)
- ④ Mounting rail fixing / suspension SDH/SDD/SDCT/SDRP/SDT-ZA/SDT-AP
- ⑤ Suspension (tube / chain)
- ⑥ Luminaire fixing BW-SDT

## Accessories

	Type	Colour	Material	Details	Item number		
<i>Design</i>							
Section cover	SDBAV 1500	vw	St	l=7x219=1533mm for SDT Basic	1884 5580 101	1	0,85
	SDBK 1500	vw	PVC	for SDT 1500, ATS	1883 7580 100	1	0,24
<i>Protection</i>							
Protective cover IP20	SDTE	vw	PC	for SDT, ATS	1890 0231 100	2	0,02
<i>Mounting</i>							
Single wire suspension	SDCS	ws	Stainless steel+mix	l=2000mm for SDT	1890 0034 100	1	0,07
	SDCSE	ws	Stainless steel+mix	Canopy D=123mm, rope D=1.5mm, L=2200mm, 3x1.5mm <sup>2</sup> for SDT	1890 0044 100	1	0,30
Chain suspension	KK	me	St	Chain l=30mm, for SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1	4,60
	KP 80	me	St+PC	l=800mm for suspended luminaires	9282 9080 100	1	0,27
	SDH	me	Inox	for SDT, ATS at chain	1890 0039 100	1	0,04
	SDT -AP	me	St	for SDT	1890 0022 100	1	0,93
	SDT -ZA	me	St	for SDT	6820 9300 110	1	0,20
Tubular pendant suspension	RP 50	ws	St+PC	d=16mm, M13, l=500mm for suspended luminaires	9280 9050 100	1	0,25
	RP 80	ws	St+PC	d=16mm, M13, l=800mm for suspended luminaires	9280 9080 100	1	0,33
	RP 100	ws	St+PC	d=16mm, M13, l=1000mm for suspended luminaires	9280 9100 100	1	0,40
	SDRP	me	Stainless steel+mix	for SDT at tubular pendant RP	1890 0054 100	1	0,02
Mounting clip	SDCT	me	Inox	for SDT at visible T-rail	1890 0042 100	1	0,03
	SDD	me	Inox	for SDT at ceiling	1890 0033 100	1	0,01
<i>Structure</i>							
Luminaires fixing	BW-SDT	vw	St	SDT attachment set for sportler, worker	3729 0009 100	2	0,88
Mounting rail	SDT Basic 1500/II	vw	St.galv.	l=3070mm 2.6kg for surface-mounted luminaires	1825 2580 150	1	2,60
	SDT Basic 1500/III	vw	St.galv.	l=4605mm 3.9kg for surface-mounted luminaires	1825 3580 150	1	3,90
Mounting rail connector	SDTSV	me	St.galv.	for SDT...Basic, ATS	1890 0092 100	1	0,30









# quanta

## quanta – in the next generation

The new quanta sets new standards in its performance class. The compact shape factor in the new robust housing easily withstands all challenging industrial conditions. Due to further increase of efficiency and the very high lumen output up to 43,600 lm, protection rating IP66, ambient temperatures of -25 °C up to +45 °C and general ball impact resistance, the improved performance level of the new generation quanta can be applied even more distinctly and more versatile.

The various precise light technologies, wide or narrow distribution provide efficiency in the lighting installation. This applies for new installation systems, but also for replacement of existing luminaires. Mounting clamp, suspension at 1, 2 or 4 points as well as pre-assembled 2 m connection cable result in our assessment as being easy to install. Long maintenance intervals are achieved using high-performance LED modules and optimal thermal management using a die-cast aluminium enclosure. These are the requirements for future-proof and reliable industrial and field lighting.



### Type overview

- ▶ QNSB Cover pane, clear direct wide distribution IP 66
- ▶ QNLT LED linear lens and transparent cover pane direct narrow distribution IP 66

# quanta LED



A+ CE IP 66

**Mounting:**

- Suspended
- Ceiling surface

**Housing:**

- Housing frame made of die-cast aluminium

**Lighting technology QNSB:**

- Cover pane, clear; safety glass (ESG)
- Lighting characteristic direct wide distribution

**Lighting technology QNLT:**

- LED lens optics and transparent cover pane; safety glass (ESG)
- Lighting characteristic direct narrow distribution

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K
- RG 2

**Switching:**

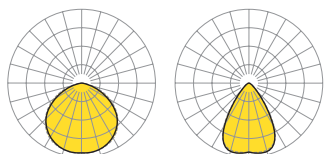
- The number of control units varies according to the version
- Electronic driver
- 230V 50Hz

**Miscellaneous:**

- Electrical connection via connection cable 2 m
- Freely suspended luminaires weighing over 5 kg must be secured with two separately independent suspension Systems in compliance with VDE 0100-718.559.4.1

**Accessories:**

- Suspension kit QN-AS and knotted-link chain KK for chain suspension to be ordered separately.

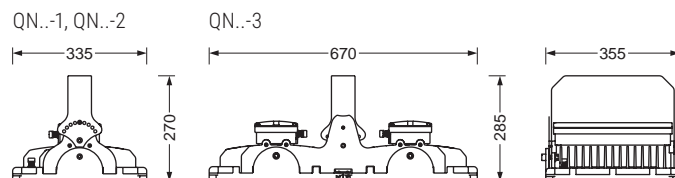


QNSB-1 LED 13300 lm 840		QNLT-2 LED 21600 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	127	lm/W	130
direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	29,0/29,4	UGR lat./long.	23,2/23,4



**Dimensions**

Type	Versions	LxBxH/DxH
QNL.-1	LED	335 x 355 x 270
QNL.-2	LED	335 x 355 x 270
QNL.-3	LED	670 x 355 x 285
QNS.-1	LED	335 x 355 x 270
QNS.-2	LED	335 x 355 x 270
QNS.-3	LED	670 x 355 x 285





## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Cover pane, clear direct wide distribution IP 66</i>							
quanta-QNSB-1	LED 13300lm 840	104	sg	ED	335 x 355 x 270	3701 1014 135	12,50
				DALI	335 x 355 x 270	3701 1016 635	12,50
quanta-QNSB-2	LED 21800lm 840	166	sg	ED	335 x 355 x 270	3701 1034 135	12,50
				DALI	335 x 355 x 270	3701 1036 635	12,50
quanta-QNSB-3	LED 43600lm 840	332	sg	ED	670 x 355 x 285	3701 1054 135	25,00
				DALI	670 x 355 x 285	3701 1056 635	25,00
<i>LED lens optics and transparent cover pane direct narrow distribution IP 66</i>							
quanta-QNLT-1	LED 13100lm 840	104	sg	ED	335 x 355 x 270	3701 2014 125	12,50
				DALI	335 x 355 x 270	3701 2016 625	12,50
quanta-QNLT-2	LED 21600lm 840	166	sg	ED	335 x 355 x 270	3701 2034 125	12,50
				DALI	335 x 355 x 270	3701 2036 625	12,50
quanta-QNLT-3	LED 43300lm 840	332	sg	ED	670 x 355 x 285	3701 2054 125	25,00
				DALI	670 x 355 x 285	3701 2056 625	25,00

## Accessories

	Type	Colour	Material	Details	Item number	kg
<i>Mounting</i>						
Chain suspension	KK	me	St	Chain l=30m, für SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1 4,60
	QN -AS1	me	St	Snap-hook set for quanta	3701 9000 100	1 0,05
	QN -AS2	me	St	Snap-hook set for quanta	3701 9002 100	1 0,10





Gipskarton  
Dämmstoffe  
Akustikdecken  
Profile

WILLICH  
50 Stk 300  
180  
300

F145 G



# hara

## hara - state of the art high bay reflector lighting

When implementing energy efficient lighting design in industrial and commercial environments, the lighting planning today is dictated by high requirements for functionality, efficiency and sustainability. hara luminaires are state of the art and easily meet all of these requirements. In addition, you can also expect high quality light technology and high lumen output. The environment is not always free of air humidity and dust. This has also been taken into consideration and different protection ratings have been implemented to prevent any problems. Long maintenance intervals and significant cost benefits are further advantages compared with conventional solutions.



### Type overview

- ▶ HRHB Mirror reflector, highly specular direct wide distribution
- ▶ HRHTB Mirror reflector, highly specular direct narrow/wide distribution
- ▶ HRHTB/2 Mirror reflector, highly specular direct narrow/wide distribution with Twin configuration
- ▶ HRHT Mirror reflector, highly specular direct narrow distribution
- ▶ HRHSB Mirror reflector, highly specular direct wide distribution IP 54
- ▶ HRHSTB Mirror reflector, highly specular direct narrow/wide distribution IP 54
- ▶ HRHSTB/2 Mirror reflector, highly specular direct narrow/wide distribution IP 54 with Twin configuration
- ▶ HRHST Mirror reflector, highly specular direct narrow distribution IP 54

# hara T5



**Mounting:**

- Suspended
- Ceiling surface

**Housing:**

- Sheet steel housing, powder-coated

**Lighting technology HRHB:**

- Mirror reflector, highly specular; aluminium
- Lighting characteristic direct wide distribution

**Lighting technology HRHTB:**

- Mirror reflector, highly specular; aluminium
- Lighting characteristic direct narrow/wide distribution

**Lighting technology HRHTB/2:**

- Mirror reflector, highly specular; aluminium
- Lighting characteristic direct narrow/wide distribution

**Lighting technology HRHT:**

- Mirror reflector, highly specular; aluminium
- Lighting characteristic direct narrow distribution

**Lamp:**

- For fitting with lamp(s) T5

**Switching:**

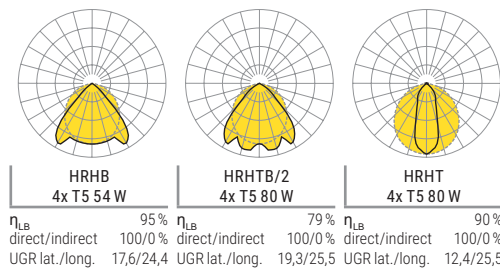
- 2 control units
- Electronic ballast
- 230V 50Hz

**Miscellaneous:**

- Electrical connection via connection cable 2 m

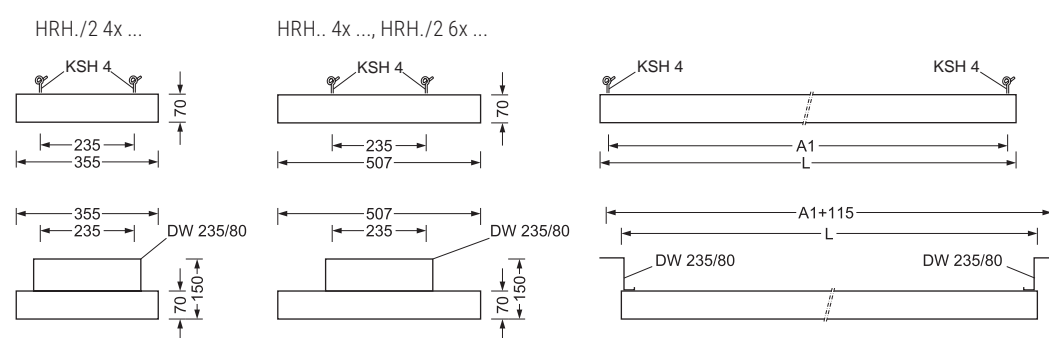
**Accessories:**

- Steel wire rope suspension kit HRH-SAY for Y-wire rope suspension with 2000 mm suspension length, surface-mounting set DW 235/80 for ceiling mounting, suspension kit KSH 4 for chain suspension or for hara HRH../2 4x SDLA luminaire hanger for mounting on SDT Basic mounting rail.




## Dimensions



Type	Versions	LxBxH/DxH	A1	A4	KE X/Y
HRH.	T5 4x28, 54 W	1200 x 507 x 70	1158	235	520 / 0
	T5 4x35, 49, 80 W	1500 x 507 x 70	1458	235	670 / 0
HRH./2	T5 4x35, 49, 80 W	1500 x 355 x 70	1458	235	654 / 0
	T5 6x35, 49, 80 W	1500 x 507 x 70	1458	235	670 / 76



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Mirror reflector, highly specular direct wide distribution</i>							
hara-HRHB	T5 4x28/54W	232	vw	ECG	1200 x 507 x 70	3711 4944 150	6,56
				ECG DALI	1200 x 507 x 70	3711 4946 650	6,66
	T5 4x35/49/80W	340	vw	ECG	1500 x 507 x 70	3711 4954 150	8,20
				ECG DALI	1500 x 507 x 70	3711 4956 650	8,30
<i>Mirror reflector, highly specular direct narrow/wide distribution</i>							
hara-HRHTB	T5 4x28/54W	232	vw	ECG	1200 x 507 x 70	3711 4944 120	6,56
				ECG DALI	1200 x 507 x 70	3711 4946 620	6,66
	T5 4x35/49/80W	340	vw	ECG	1500 x 507 x 70	3711 4954 120	8,20
				ECG DALI	1500 x 507 x 70	3711 4956 620	8,30
<i>Mirror reflector, highly specular direct narrow/wide distribution with Twin configuration</i>							
hara-HRHTB/2	T5 4x35/49/80W	340	vw	ECG	1500 x 355 x 70	3712 4954 150	6,30
				ECG DALI	1500 x 355 x 70	3712 4956 650	6,40
	T5 6x35/49/80W	510	vw	ECG	1500 x 507 x 70	3712 6954 150	8,60
				ECG DALI	1500 x 507 x 70	3712 6956 650	8,70
<i>Mirror reflector, highly specular direct narrow distribution</i>							
hara-HRHT	T5 4x28/54W	232	vw	ECG	1200 x 507 x 70	3711 4944 130	6,56
				ECG DALI	1200 x 507 x 70	3711 4946 630	6,66
	T5 4x35/49/80W	340	vw	ECG	1500 x 507 x 70	3711 4954 130	8,20
				ECG DALI	1500 x 507 x 70	3711 4956 630	8,30

## Accessories

Type	Colour	Material	Details	Item number		
<i>Mounting</i>						
Chain suspension	KK	me	St	Chain l=30m, für SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1 4,60
	KSH 4	me	St	Chain hook suspension kit for worker, hara luminaires	3729 0002 100	4 0,09
Y-wire suspension	HRH-SAY	me	Mix	D=1.5 mm, L=2200 mm for hara	3729 2000 100	2 0,15
Mounting-ceiling	DW 235/80	vw	St	Ceiling brackets for worker, hara	3729 0001 100	2 1,00





# hara T5



**Mounting:**

- Suspended
- Ceiling surface

**Housing:**

- Sheet steel housing, powder-coated
- Clear acrylic glass protective cover enclosed in sheet steel panel frame

**Lighting technology HRHSB:**

- Mirror reflector, highly specular; aluminium
- Lighting characteristic direct wide distribution

**Lighting technology HRHSTB:**

- Mirror reflector, highly specular; aluminium
- Lighting characteristic direct narrow/wide distribution

**Lighting technology HRHSTB/2:**

- Mirror reflector, highly specular; aluminium
- Lighting characteristic direct narrow/wide distribution

**Lighting technology HRHST:**

- Mirror reflector, highly specular; aluminium
- Lighting characteristic direct narrow distribution

**Lamp:**

- For fitting with lamp(s) T5

**Switching:**

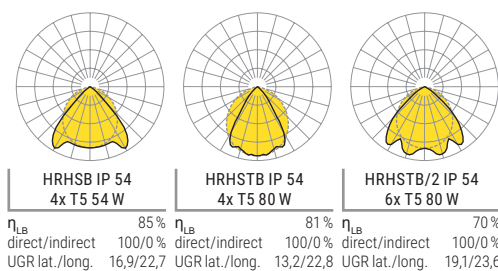
- 2 control units
- Electronic ballast
- 230V 50Hz

**Miscellaneous:**

- Electrical connection via connection cable 2 m

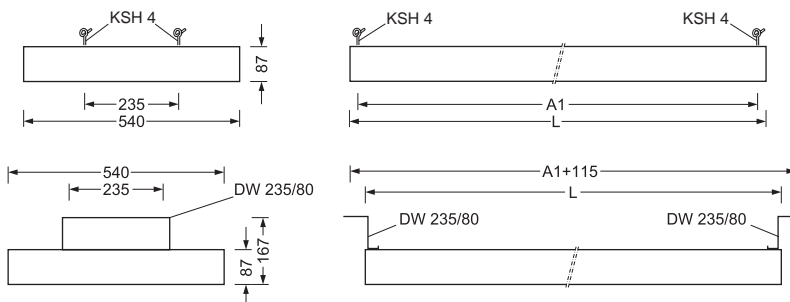
**Accessories:**

- Steel wire suspension kit HRH-SAY for Y-wire suspension with 2000 mm suspension height, surface-mounting set DW 235/80 for ceiling mounting and suspension set KSH 4 for chain suspension must be ordered separately.




## Dimensions



Type	Versions	LxBxH/DxH	A1	A4	KE X/Y
HRHS.	T5 4x28, 54 W	1233 x 540 x 87	1200	235	524 / 98
	T5 4x35, 49, 80 W	1533 x 540 x 87	1500	235	674 / 98
HRHS./2	T5 6x35, 49, 80 W	1533 x 540 x 87	1500	235	674 / 98



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Mirror reflector, highly specular direct wide distribution IP 54</i>							
hara-HRHSB IP 54	T5 4x28/54W	232	vw	ECG	1233 x 540 x 87	3721 4944 150	12,00
				ECG DALI	1233 x 540 x 87	3721 4946 650	12,10
	T5 4x35/49/80W	340	vw	ECG	1533 x 540 x 87	3721 4954 150	14,80
				ECG DALI	1533 x 540 x 87	3721 4956 650	14,90
<i>Mirror reflector, highly specular direct narrow/wide distribution IP 54</i>							
hara-HRHSTB IP 54	T5 4x28/54W	232	vw	ECG	1233 x 540 x 87	3721 4944 120	12,00
				ECG DALI	1233 x 540 x 87	3721 4946 620	12,10
	T5 4x35/49/80W	340	vw	ECG	1533 x 540 x 87	3721 4954 120	14,80
				ECG DALI	1533 x 540 x 87	3721 4956 620	14,90
<i>Mirror reflector, highly specular direct narrow/wide distribution IP 54 with Twin configuration</i>							
hara-HRHSTB/2 IP 54	T5 6x35/49/80W	510	vw	ECG	1533 x 540 x 87	3722 6954 150	15,70
				ECG DALI	1533 x 540 x 87	3722 6956 650	15,80
<i>Mirror reflector, highly specular direct narrow distribution IP 54</i>							
hara-HRHST IP 54	T5 4x28/54W	232	vw	ECG	1233 x 540 x 87	3721 4944 130	12,00
				ECG DALI	1233 x 540 x 87	3721 4946 630	12,10
	T5 4x35/49/80W	340	vw	ECG	1533 x 540 x 87	3721 4954 130	14,80
				ECG DALI	1533 x 540 x 87	3721 4956 630	14,90

## Accessories

Type	Colour	Material	Details	Item number		
<i>Mounting</i>						
Chain suspension	KK	me	St	Chain l=30m, für SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1 4,60
	KSH 4	me	St	Chain hook suspension kit for worker, hara luminaires	3729 0002 100	4 0,09
Y-wire suspension	HRH-SAY	me	Mix	D=1.5 mm, L=2200 mm for hara	3729 2000 100	2 0,15
Mounting-ceiling	DW 235/80	vw	St	Ceiling brackets for worker, hara	3729 0001 100	2 1,00
Tool	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1 0,08



# hara T5



**Mounting:**

- Suspended
- Ceiling surface

**Housing:**

- Sheet steel housing, powder-coated
- Clear acrylic glass protective cover enclosed in sheet steel panel frame

**Lighting technology HRHSB:**

- Mirror reflector, highly specular; aluminium
- Lighting characteristic direct wide distribution

**Lighting technology HRHST:**

- Mirror reflector, highly specular; aluminium
- Lighting characteristic direct narrow distribution

**Lamp:**

- For fitting with lamp(s) T5

**Switching:**

- Group switching, separately switchable 2x inner / 2x outer
- 2 control units
- Electronic ballast
- 230V 50Hz

**Miscellaneous:**

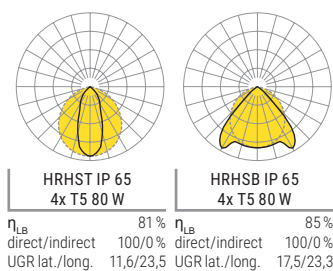
- Electrical connection via connection cable 2 m

**Accessories:**

- Steel wire suspension kit HRH-SAY for Y-wire suspension with 2000 mm suspension height, surface-mounting set DW 235/80 for ceiling mounting and suspension set KSH 4 for chain suspension must be ordered separately.

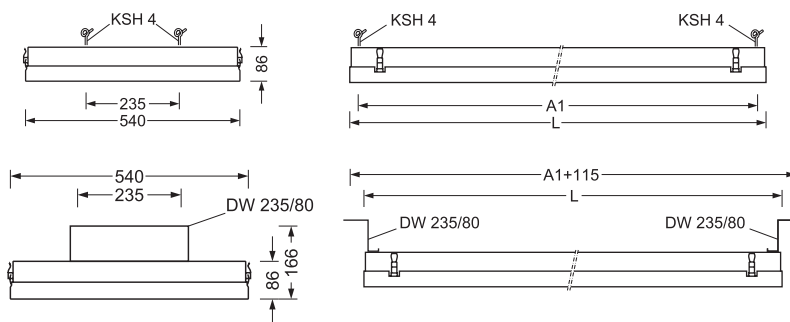
**Mounting instructions:**

- Can be used for increased ambient temperatures (Ta)
- For surface-mounting up to 35° C, for suspended mounting from a ceiling distance of more than 0
- 5 m up to 40° C



**Dimensions**

Type	Versions	LxBxH/DxH	A1	A4	KE X/Y
HRHS.	T5 4x35, 49, 80 W	1540 x 540 x 86	1500	235	674 / 98



**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Mirror reflector, highly specular direct wide distribution IP 65</i>							
hara-HRHSB IP 65	T5 4x35/49/80W	340	vw	ECG	1540 x 540 x 86	3731 4954 150	15,77
<i>Mirror reflector, highly specular direct narrow distribution IP 65</i>							
hara-HRHST IP 65	T5 4x35/49/80W	340	vw	ECG	1540 x 540 x 86	3731 4954 130	15,77

**Accessories**

Type	Colour	Material	Details	Item number		
<i>Mounting</i>						
Chain suspension	KK	me	St	Chain l=30m, für SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1 4,60
	KSH 4	me	St	Chain hook suspension kit for worker, hara	3729 0002 100	4 0,09
Y-wire suspension	HRH-SAY	me	Mix	D=1.5 mm, L=2200 mm for hara	3729 2000 100	2 0,15
Mounting-ceiling	DW 235/80	vw	St	Ceiling brackets for worker, hara	3729 0001 100	2 1,00









# Damp-proof luminaires

WL



▶463

▶464 WBL5 LED

parsa



▶467

▶468 PSO LED  
▶468 PSOPC LED

PU



▶471

▶472 PU T5  
▶472 PUPC T5

PA, PC



▶475

▶476 PA T5  
▶476 PA T8  
▶478 PC T5  
▶478 PC T8

PFL



▶481

▶482 PFL T5  
▶482 PFL T8







### Downlights

doma

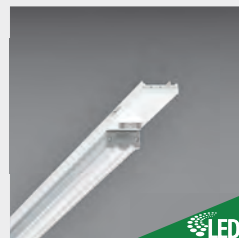
▶ 250



### Quick-fit mounting system

SDT-System

▶ 372



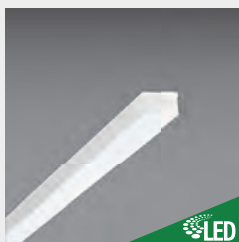
# Damp-proof luminaires from other chapters

## Surface-mounted luminaires

protection ▶ 90



wotek ▶ 146



WL ▶ 168



## Suspended luminaires

heip ▶ 14



peanut ▶ 36



## Recessed luminaires

planara ▶ 178



protection ▶ 186



## Standing and wall-mounted luminaires

MLS ▶ 244

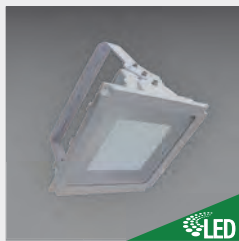


## High bay reflector and field luminaires

worker ▶ 442



quanta ▶ 448



hara ▶ 452







WL



## WL ceiling diffuser luminaires – day-to-day problem-solvers

No-frills luminaires with opal acrylic diffusers and a top luminaire maintenance factor. Universal and versatile, individual or group luminaires with harmonious, diffuse light.



### Type overview

- ▶ WBLS Diffuser, opal direct/indirect distribution



**Mounting:**

- Ceiling surface
- Wall mounting

**Housing:**

- Polycarbonate

**Lighting technology WBLs:**

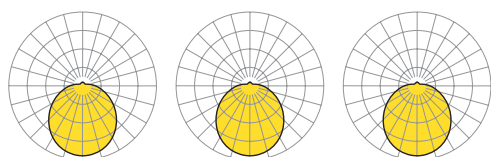
- Diffuser, opal; PMMA plastic
- Lighting characteristic direct/indirect distribution

**Lamp:**

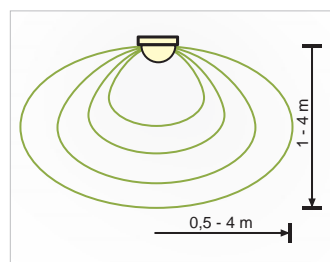
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K or CRI ≥ 80 / 3000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz



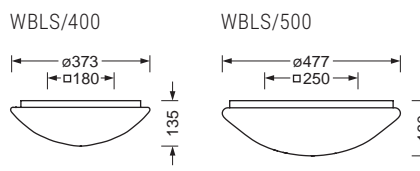
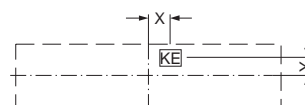
WBLs/400 LED 2100 lm 840		WBLs/500 LED 2800 lm 840		WBLs/500 LED 4100 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	96	lm/W	96	lm/W	94
direct/indirect	88/12%	direct/indirect	88/12%	direct/indirect	88/12%
UGR lat./long.	20,5/20,5	UGR lat./long.	19,8/19,8	UGR lat./long.	21,2/21,2




Detection zone of the S9 HF motion sensor.

**Dimensions**



Type	Versions	LxBxH/DxH	A1	A2
WBLs/400	LED	373 x 135	180	255
WBLs/500	LED	477 x 160	250	354

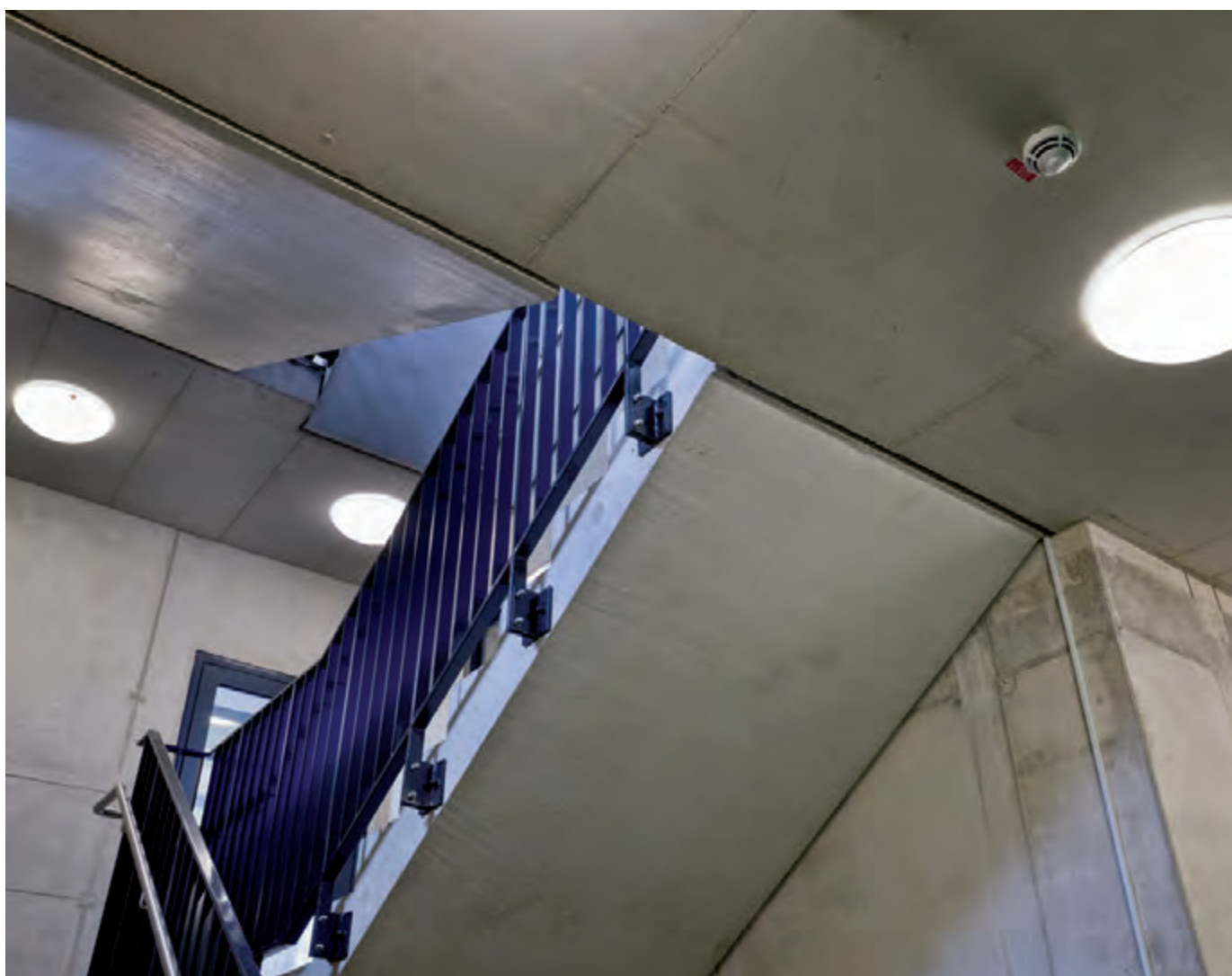


## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, opal direct/indirect distribution</i>							
WBLS/400	LED 1900lm 830	22	vw	ED	373 x 135	2531 6124 110	1,13
				S9	373 x 135	2534 6124 110	1,23
WBLS/500	LED 2100lm 840	22	vw	ED	373 x 135	2531 6134 110	1,13
				S9	373 x 135	2534 6134 110	1,23
	LED 2500lm 830	29	vw	ED	477 x 160	2531 6144 110	2,10
	LED 2800lm 840	29	vw	ED	477 x 160	2531 6154 110	2,10
	LED 3800lm 830	43	vw	ED	477 x 160	2531 6184 110	2,10
	LED 4100lm 840	43	vw	ED	477 x 160	2531 6194 110	2,10

## Replacement parts

Type	Colour	Material	Details	Item number			
<i>Lighting technology</i>							
Diffuser	Wanne WBLR glatt 400	tz	PMMA	D=373 mm for WBLR /400, 2x11, 2x18, 1x36, 2x23 and with seal for WBLS	2531 0400 110	1	0,27
	Wanne WBLR glatt 500	tz	PMMA	D=477 mm for WBLR /500, 2x24, 2x36 and with seal for WBLS	2531 0500 110	1	0,47
<i>Protection</i>							
Seal	Dichtung 400		Rubber (EPDM)	for WBLS	2531 6400 110	1	0,01
	Dichtung 500		Rubber (EPDM)	for WBLS	2531 6500 110	1	0,01









# parsa

## parsa – light for challenging environments

A damp-proof luminaire has to be one thing above all – tough. parsa has been developed with exactly this in mind. Not only as an IP luminaire, but also for an extended temperature range from frozen environments through to areas where a great deal of process heat is produced. It goes without saying that the luminaire is well prepared for mechanical loads and quick and easy to install thanks to its well-thought-out design. The fact that there have been no compromises as far as the light engine is concerned is illustrated by the outstanding service life data. Altogether, a real all-round product.



### Type overview

- ▶ PSO Diffuser, opal direct distribution
- ▶ PSOPC Diffuser, opal direct distribution  
impact-resistant

# parsa LED



LED IP 65

PSO IK04 PSOPC IK06

**Mounting:**

- Ceiling surface
- Mounting rail
- Suspended

**Housing:**

- Made of glass fibre reinforced polyester, stainless steel diffuser clips, device mount made of sheet steel painted white

**Lighting technology PSO:**

- Diffuser, opal; PMMA plastic
- Lighting characteristic direct distribution

**Lighting technology PSOPC:**

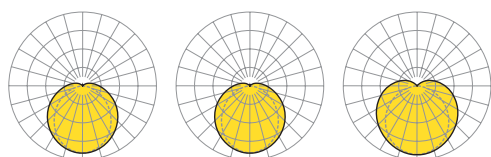
- Diffuser, opal; PC plastic
- Lighting characteristic direct distribution

**Lamp:**

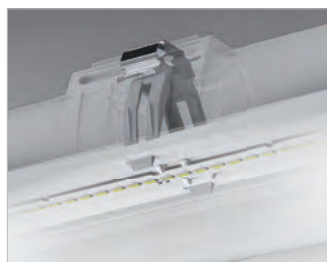
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Switching:**

- 1 Control gear
- Electronic driver
- 230V 50Hz



PSO/1500 LED 5800 lm 840		PSO/1500 LED 9800 lm 840		PSOPC/1500 LED 8600 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	142	lm/W	145	lm/W	127
direct/indirect	91/9%	direct/indirect	91/9%	direct/indirect	87/13%
UGR lat./long.	24,6/21,9	UGR lat./long.	26,4/23,7	UGR lat./long.	26,5/23,3

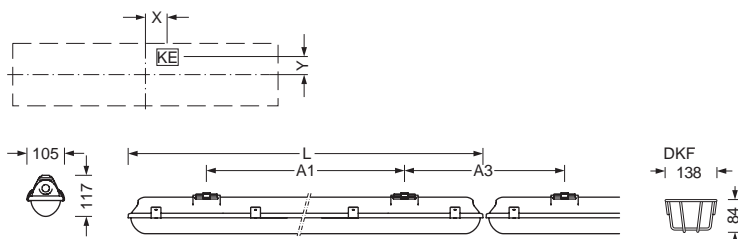


Quick and easy mounting thanks to clip-technics. The housing is fixed to the ceiling by a stainless steel clip and the integrated device mount for the LED-module is easily clipped-in as well.



## Dimensions

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
PSO./1200	LED	1300 x 105 x 117	800	505	650 / 0
PSO./1500	LED	1600 x 105 x 117	1000	605	800 / 0





## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, opal direct distribution</i>							
parsa-PSO/1200	LED 4500lm 840	31	hg	ED	1300 x 105 x 117	5661 2024 110	2,00
				DALI	1300 x 105 x 117	5661 2026 610	2,02
parsa-PSO/1500	LED 5800lm 840	41	hg	ED	1600 x 105 x 117	5661 5024 110	2,42
				DALI	1600 x 105 x 117	5661 5026 610	2,45
	LED 9800lm 840	68	hg	ED	1600 x 105 x 117	5661 5034 110	2,60
				DALI	1600 x 105 x 117	5661 5036 610	2,60
<i>Diffuser, opal direct distribution impact-resistant</i>							
parsa-PSOPC/1200	LED 3900lm 840	31	hg	ED	1300 x 105 x 117	5661 2024 170	2,00
				DALI	1300 x 105 x 117	5661 2026 670	2,00
parsa-PSOPC/1500	LED 5100lm 840	41	hg	ED	1600 x 105 x 117	5661 5024 170	2,42
				DALI	1600 x 105 x 117	5661 5026 670	2,42
	LED 8600lm 840	68	hg	ED	1600 x 105 x 117	5661 5034 170	2,60
				DALI	1600 x 105 x 117	5661 5036 670	2,60

## Accessories

Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>						
Through-wiring cable	PS -DV 1200	ws	H05VV-F	5x1.5mm <sup>2</sup> for PSO	5661 9200 100	1 0,17
	PS -DV 1500	ws	H05VV-F	5x1.5mm <sup>2</sup> for PSO	5661 9500 100	1 0,21
<i>Protection</i>						
Protective wire cage	DKF 1200	gecr	St.galv.	for parsa PS LED; PU, PUPC T5 1x28/54, 2x28/54; PA, PC, T5 1x28/54 T8 1x36	5976 1360 100	1 1,23
	DKF 1500	gecr	St.galv.	for parsa PC LED; PU, PUPC T5 1x35/49/80, 2x35/49; PA, PC, T5 1x35/49/80 T8 1x58	5976 1580 100	1 1,54
Protective cage mounting	DKF -HB	vw	St.galv.	Retaining bracket for DKF	5976 1000 100	2 0,10
<i>Mounting</i>						
Chain suspension	PS-AHK	me	St	PS suspension kit for chain/cable	5661 9001 100	1 0,01
Mounting clip	PS-AHS	me	Inox	for PS to SDT rail	5661 9002 100	1 0,03

## Replacement parts

Type	Colour	Material	Details	Item number		
<i>Lighting technology</i>						
Diffuser	Wanne PSO/1200	tz	PMMA	for PSO/1200 LED	5661 2000 110	1 0,28
	Wanne PSO/1500	tz	PMMA	for PSO/1500 LED	5661 1500 110	1 0,34
	Wanne PSOPC/1200	tz	PC	for PSOPC/1200 LED	5661 2000 170	1 0,28
	Wanne PSOPC/1500	tz	PC	for PSOPC/1500 LED	5661 5000 170	1 0,34









# PU, PUPC



## PU/PUPC – state-of-the-art both today and tomorrow

You can expect the following from a damp-proof luminaire: high protection rating, compact housing dimensions, high quality materials and complete ease of mounting and maintenance. High IP65 protection rating and D symbol. Rough environments with high dust and humidity exposure and danger from fire have no effect on the luminaire. Compact dimensions with a width of only 86 millimetres (single-lamp, T5) and a luminaire body of resilient and environmentally neutral glass fibre reinforced polyester. Depending upon demands and the application environment, either acrylic (PU) or polycarbonate (PUPC) are selected for the diffusers with inner prismatic, and diffuser catches and mounting clips are of course of rust-free stainless steel. The mounting clip on the housing can be pushed along and the slotted hole enables drill hole compensation in the transverse direction. With the integrated, lateral wings the clip can be snapped into corresponding mounting rails without additional accessories. If the included bracket is snapped into the clip the luminaire can be suspended with a standard chain. In short, a product where everything has been thought of.



### Type overview

- ▶ PU Diffuser, clear direct/indirect distribution
- ▶ PUPC Diffuser, clear direct/indirect distribution  
impact-resistant

# PU T5



**Mounting:**

- Ceiling surface
- Mounting rail
- Suspended
- Wall mounting

**Housing:**

- Made of glass fibre reinforced polyester, stainless steel diffuser clips, device mount made of sheet steel painted white

**Lighting technology PU:**

- Diffuser, clear; PMMA plastic
- Lighting characteristic direct/indirect distribution

**Lighting technology PUPC:**

- Diffuser, clear; PC plastic
- Lighting characteristic direct/indirect distribution

**Lamp:**

- For fitting with lamp(s) T5

**Switching:**

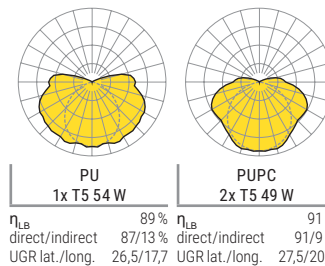
- 1 Control gear
- Electronic ballast
- 230V 50Hz



Tolerance compensation is no problem with the installation clip.



Pendant installation is carried out by inserting the bracket into the installation clip.



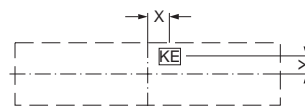
Thanks to the snap-in hooks, installing the mounting rail is simply a matter of clipping it into place.

## Dimensions

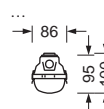
Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
PU.	T5 1x28, 54 W	1277 x 86 x 100	700 <sup>1)</sup>	576	0 / 0
	T5 1x35, 49, 80 W	1577 x 86 x 100	1000 <sup>2)</sup>	576	0 / 0
	T5 2x28, 54 W	1277 x 112 x 104	700 <sup>1)</sup>	576	0 / 0
	T5 2x35, 49, 80 W	1577 x 112 x 104	1000 <sup>2)</sup>	576	0 / 0

<sup>1)</sup>Alternative mounting distance: 800

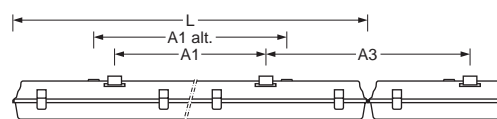
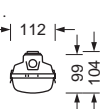
<sup>2)</sup>Alternative mounting distance: 1100



PU. 1x



PU. 2x





## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Diffuser, clear direct/indirect distribution</i>							
PU	T5 1x28/54W	58	hg	ECG	1277 x 86 x 100	5660 1944 161	1,90
	T5 1x35/49/80W	52	hg	ECG	1577 x 86 x 100	5660 1954 161	2,10
	T5 2x28W	60	hg	ECG	1277 x 112 x 104	5660 2284 161	2,10
	T5 2x35W	76	hg	ECG	1577 x 112 x 104	5660 2354 161	2,30
	T5 2x49W	104	hg	ECG	1577 x 112 x 104	5660 2494 161	2,30
<i>Diffuser, clear direct/indirect distribution impact-resistant</i>							
PUPC	T5 1x28/54W	58	hg	ECG	1277 x 86 x 100	5660 1944 171	1,90
	T5 1x35/49/80W	52	hg	ECG	1577 x 86 x 100	5660 1954 171	2,10
	T5 2x28W	60	hg	ECG	1277 x 112 x 104	5660 2284 171	2,10
	T5 2x35W	76	hg	ECG	1577 x 112 x 104	5660 2354 171	2,30
	T5 2x49W	104	hg	ECG	1577 x 112 x 104	5660 2494 171	2,30

## Accessories

Type	Colour	Material	Details	Item number		
<i>Electrical technology</i>						
Through-wiring cable	PU -DV 1200	ws	H07V2-U	for PU	5660 9940 100	1 0,22
	PU -DV 1500	ws	H07V2-U	for PU	5660 9950 100	1 0,27
<i>Protection</i>						
Protective wire cage	DKF 1200	gecr	St.galv.	for parsA PS LED; PU, PUPC T5 1x28/54, 2x28/54; PA, PC, T5 1x28/54 T8 1x36	5976 1360 100	1 1,23
	DKF 1500	gecr	St.galv.	for parsA PC LED; PU, PUPC T5 1x35/49/80, 2x35/49; PA, PC, T5 1x35/49/80 T8 1x58	5976 1580 100	1 1,54
Protective cage mounting	DKF -HB	vw	St.galv.	Retaining bracket for DKF	5976 1000 100	2 0,10

## Replacement parts

Type	Colour	Material	Details	Item number		
<i>Lighting technology</i>						
Diffuser	Wanne PU 1/1200	tp	PMMA	for PU T5 1x28/54	5660 1940 160	1 0,30
	Wanne PU 1/1500	tp	PMMA	for PU T5 1x35/49/80	5660 1950 160	1 0,45
	Wanne PU 2/1200	tp	PMMA	for PU T5 2x28/54	5660 2940 160	1 0,50
	Wanne PU 2/1500	tp	PMMA	for PU T5 2x35/49/80	5660 2950 160	1 0,75
	Wanne PUPC 1/1200	tz	PC	for PUPC T5 1x28/54	5660 1940 170	1 0,30
	Wanne PUPC 1/1500	tz	PC	for PUPC T5 1x35/49/80	5660 1950 170	1 0,45
	Wanne PUPC 2/1200	tz	PC	for PUPC T5 2x28/54	5660 2940 170	1 0,50
	Wanne PUPC 2/1500	tz	PC	for PUPC T5 2x35/49/80	5660 2950 170	1 0,75









# PA, PC



## PA/PC – the twin products for IP

Damp-proof luminaires should be robust, as severe conditions are present in the environment where they are used. There, it is moist, dirty and perhaps even flammable. That is, however, not the end of it, since chemical substances are also often used there, which may also damage the luminaires. It is nice if one has the open choice then, as the housing is resistant with glass fibre reinforced polyester, and with the open choice of the diffuser made of acrylic, as in the case of PA or polycarbonate as in the case of PC, it becomes easier. So, it appears that the diffuser catches are not only exchangeable, rather can even be replaced by catches made of stainless steel, if required. With appropriate accessories, many other application areas can be opened up. Be that suspended, support rail or the mounting with continuous run with through wiring, due to the appropriate accessories, this is all possible and secured.



### Type overview

- ▶ PA Diffuser, clear direct/indirect distribution
- ▶ PC Diffuser, matt direct/indirect distribution

# PA T5/T8



IP 67

**Mounting:**

- Ceiling surface
- Mounting rail
- Suspended
- Wall mounting

**Housing:**

- Glass fibre reinforced polyester, diffuser holding clips made of plastic

**Lighting technology PA:**

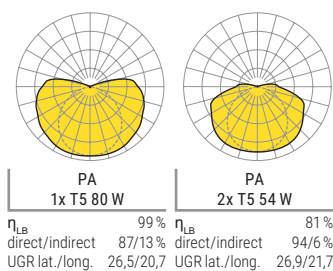
- Diffuser, clear; PMMA plastic
- Lighting characteristic direct/indirect distribution

**Lamp:**

- For fitting with lamp(s) T5 ro T8

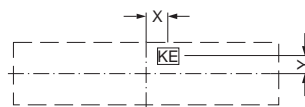
**Switching:**

- 1 Control gear
- Electronic ballast or LlB A2
- 230V 50Hz

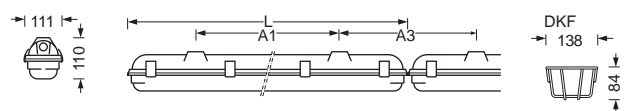


**Dimensions**

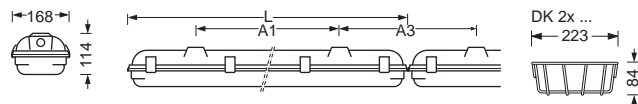
Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
PA	T5 1x14, 24 W	673 x 111 x 110	450	227	336 / 0
	T5 1x28, 54 W	1283 x 111 x 110	660	627	641 / 0
	T5 1x35, 49, 80 W	1583 x 111 x 110	900	687	791 / 0
	T5 2x14, 24 W	673 x 168 x 114	450	227	336 / 0
	T5 2x28, 54 W	1283 x 168 x 114	660	627	641 / 0
	T5 2x35, 49, 80 W	1583 x 168 x 114	900	687	791 / 0
	T8 1x18W	673 x 111 x 110	450	227	336 / 0
	T8 1x36W	1283 x 111 x 110	660	627	641 / 0
	T8 1x58W	1583 x 111 x 110	900	687	791 / 0
	T8 2x18W	673 x 168 x 114	450	227	336 / 0
	T8 2x36W	1283 x 168 x 114	660	627	641 / 0
	T8 2x58W	1583 x 168 x 114	900	687	791 / 0



PA. 1x ...



PA. 2x ...




**Replacement parts**

Type	Colour	Material	Details	Item number	kg	
<i>Lighting technology</i>						
Diffuser	Wanne PA 1/0600	tp	PMMA	for PA T5 1x14/24, T8 1x18	9220 1180 100	1 0,50
	Wanne PA 1/1200	tp	PMMA	for PA T5 1x28/54, T8 1x36	9220 1360 100	1 0,33
	Wanne PA 1/1500	tp	PMMA	for PA T5 1x35/49/80, T8 1x58	9220 1580 100	1 0,43
	Wanne PA 2/0600	tp	PMMA	for PA T5 2x14/24, T8 2x18	9220 2180 100	1 0,50
	Wanne PA 2/1200	tp	PMMA	for PA T5 2x28/54, T8 2x36	9220 2360 100	1 0,53
	Wanne PA 2/1500	tp	PMMA	for PA T5 2x35/49 T8 2x58	9220 2580 100	1 0,70
<i>Mounting</i>						
Small parts bag	PA - PC Kleinteilebeutel PA	ga	Mix	for PA, PC	5670 1000 100	1 0,02







## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number		
<i>Diffuser, clear direct/indirect distribution</i>								
PA	T5 1x14W	16	kg	ECG <sup>1)</sup>	673 x 111 x 110	5670 1144 160	1,08	
	T5 1x24W	26	kg	ECG <sup>1)</sup>	673 x 111 x 110	5670 1244 160	1,08	
	T5 1x28W	30	kg	ECG <sup>1)</sup>	1283 x 111 x 110	5670 1284 160	2,04	
	T5 1x35W	38	kg	ECG <sup>1)</sup>	1583 x 111 x 110	5670 1354 160	2,42	
	T5 1x49W	52	kg	ECG <sup>1)</sup>	1583 x 111 x 110	5670 1494 160	2,42	
	T5 1x54W	58	kg	ECG <sup>1)</sup>	1283 x 111 x 110	5670 1544 160	2,04	
	T5 1x80W	85	kg	ECG <sup>1)</sup>	1583 x 111 x 110	5670 1804 160	2,42	
	T5 2x14W	32	kg	ECG <sup>1)</sup>	673 x 168 x 114	5670 2144 160	1,40	
	T5 2x24W	52	kg	ECG <sup>1)</sup>	673 x 168 x 114	5670 2244 160	1,40	
	T5 2x28W	60	kg	ECG <sup>1)</sup>	1283 x 168 x 114	5670 2284 160	2,75	
	T5 2x35W	76	kg	ECG <sup>1)</sup>	1583 x 168 x 114	5670 2354 160	3,29	
	T5 2x49W	104	kg	ECG <sup>1)</sup>	1583 x 168 x 114	5670 2494 160	3,29	
	T5 2x54W	116	kg	ECG <sup>1)</sup>	1283 x 168 x 114	5670 2544 160	2,75	
	T8 1x18W	19	kg	ECG <sup>1)</sup>	673 x 111 x 110	5670 1184 160	1,08	
	T8 1x36W		39	kg	Llb A2 ind	1283 x 111 x 110	5671 1361 160	3,00
			36	kg	ECG <sup>1)</sup>	1283 x 111 x 110	5670 1364 160	2,04
	T8 1x58W		61	kg	Llb A2 ind	1583 x 111 x 110	5671 1581 160	4,64
			55	kg	ECG <sup>1)</sup>	1583 x 111 x 110	5670 1584 160	2,42
	T8 2x18W	38	kg	ECG <sup>1)</sup>	673 x 168 x 114	5670 2184 160	1,40	
	T8 2x36W	72	kg	ECG <sup>1)</sup>	1283 x 168 x 114	5670 2364 160	2,75	
T8 2x58W	110	kg	ECG <sup>1)</sup>	1583 x 168 x 114	5670 2584 160	3,29		

<sup>1)</sup>Additional certification: 

## Accessories

Typ	Farbe	Material	Details	Artikel-Nr.		
<i>Electrical technology</i>						
Through-wiring cable	FLVPA T8 58	ws	A03S-U	5x1.5mm <sup>2</sup> for PA..., PC	1958 1580 100	1 0,14
Power factor correction	KO 4,5	me	Mix	4,5µF for T8 1/18, 1/36, 2/18 TC-L 1/18, 1/36, 2/18	8415 0045 100	1 0,03
	KO 7,0	me	Mix	7.0µF for T8 1/58	8415 0070 100	1 0,04
Emergency lamp socket	E14 H	ws	Polymer	E14/IT-25 horiz. for T8	9452 0320 100	1 0,20
<i>Protection</i>						
Protective wire cage	DK 2/1200	gecr	St	for PA, PC, PFL, T5 2x28/54, T8 2x36; KL... T5 28/54	1116 2360 100	1 1,61
	DK 2/1500	gecr	St	for PA, PC, PFL, T5 2x35/49/80 T8 2x58; KL... T5 35/49	1116 2580 100	1 1,90
	DKF 0600	gecr	St.galv.	for PA T5 1x14/24 T8 1x18	5976 1180 100	1 0,72
	DKF 1200	gecr	St.galv.	for parsas PS LED; PU, PUPC T5 1x28/54, 2x28/54; PA, PC, T5 1x28/54 T8 1x36	5976 1360 100	1 1,23
	DKF 1500	gecr	St.galv.	for parsas PC LED; PU, PUPC T5 1x35/49/80, 2x35/49; PA, PC, T5 1x35/49/80 T8 1x58	5976 1580 100	1 1,54
Protective cage mounting	DK -HB 2/	vw	St.galv.	Retaining bracket for DK 2x...	5970 2000 100	2 0,20
	DKF -HB	vw	St.galv.	Retaining bracket for DKF	5976 1000 100	2 0,10
Diffuser clips of stainless steel	PA/PC -CLIPS V2A me	Inox		for PA..., PC... 18W = 6x, 36W = 8x, 58W 10x	9486 1000 100	1 0,01
<i>Mounting</i>						
Chain suspension	KH	me	St	for ILF, PFP, PFK, PA..., PC...	9482 2277 100	1 0,03





# PC T5/T8



**Mounting:**

- Ceiling surface
- Mounting rail
- Suspended
- Wall mounting

**Housing:**

- Glass fibre reinforced polyester, diffuser holding clips made of plastic

**Lighting technology PC:**

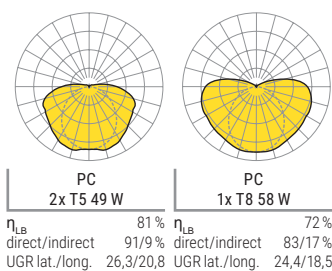
- Diffuser, matt; PC plastic
- Lighting characteristic direct/indirect distribution

**Lamp:**

- For fitting with lamp(s) T5 or T8

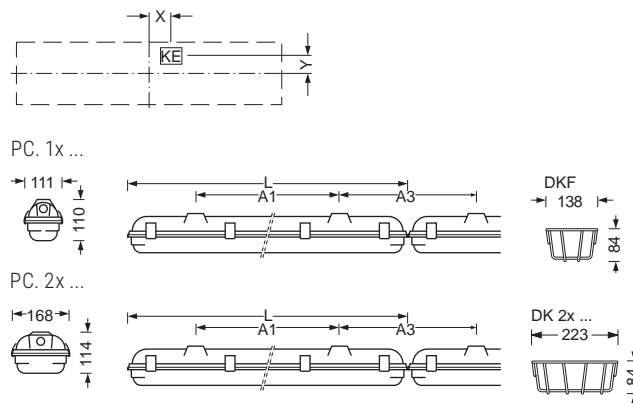
**Switching:**

- 1 Control gear
- Electronic ballast or Llb A2
- 230V 50Hz



**Dimensions**

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
PC	T5 1x28, 54 W	1283 x 111 x 110	660	627	641 / 0
	T5 1x35, 49, 80 W	1583 x 111 x 110	900	687	791 / 0
	T5 2x28, 54 W	1283 x 168 x 114	660	627	641 / 0
	T5 2x35, 49, 80 W	1583 x 168 x 114	900	687	791 / 0
	T8 1x36W	1283 x 111 x 110	660	627	641 / 0
	T8 1x58W	1583 x 111 x 110	900	687	791 / 0
	T8 2x36W	1283 x 168 x 114	660	627	641 / 0
	T8 2x58W	1583 x 168 x 114	900	687	791 / 0





## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number		
<i>Diffuser, matt direct/indirect distribution</i>								
PC	T5 1x28W	30	kg	ECG <sup>1)</sup>	1283 x 111 x 110	5670 1284 170	2,04	
	T5 1x35W	38	kg	ECG <sup>1)</sup>	1583 x 111 x 110	5670 1354 170	2,42	
	T5 1x49W	52	kg	ECG <sup>1)</sup>	1583 x 111 x 110	5670 1494 170	2,42	
	T5 1x54W	58	kg	ECG <sup>1)</sup>	1283 x 111 x 110	5670 1544 170	2,04	
	T5 1x80W	85	kg	ECG <sup>1)</sup>	1583 x 111 x 110	5670 1804 170	2,42	
	T5 2x28W	60	kg	ECG <sup>1)</sup>	1283 x 168 x 114	5670 2284 170	2,75	
	T5 2x35W	76	kg	ECG <sup>1)</sup>	1583 x 168 x 114	5670 2354 170	3,29	
	T5 2x49W	104	kg	ECG <sup>1)</sup>	1583 x 168 x 114	5670 2494 170	3,29	
	T5 2x54W	116	kg	ECG <sup>1)</sup>	1283 x 168 x 114	5670 2544 170	2,75	
	T8 1x36W		39	kg	L1b A2 ind	1283 x 111 x 110	5671 1361 170	3,05
			36	kg	ECG <sup>1)</sup>	1283 x 111 x 110	5670 1364 170	2,08
	T8 1x58W		61	kg	L1b A2 ind	1583 x 111 x 110	5671 1581 170	4,70
			55	kg	ECG <sup>1)</sup>	1583 x 111 x 110	5670 1584 170	2,50
	T8 2x36W	72	kg	ECG <sup>1)</sup>	1283 x 168 x 114	5670 2364 170	2,78	
	T8 2x58W	110	kg	ECG <sup>1)</sup>	1583 x 168 x 114	5670 2584 170	3,34	

<sup>1)</sup>Additional certification:

## Accessories

Type	Colour	Material	Details	Item number	
<i>Electrical technology</i>					
Through-wiring cable	FLVPA T8 58	ws	A03S-U	5x1.5mm <sup>2</sup> for PA..., PC	1958 1580 100 1 0,14
Power factor correction	KO 4,5	me	Mix	4,5µF for T8 1/18, 1/36, 2/18 TC-L 1/18, 1/36, 2/18	8415 0045 100 1 0,03
Emergency lamp socket	E14 H	ws	Polymer	E14/IT-25 horiz. for T8	9452 0320 100 1 0,20
<i>Protection</i>					
Protective wire cage	DK 2/1200	gecr	St	for PA, PC, PFL, T5 2x28/54, T8 2x36; KL... T5 28/54	1116 2360 100 1 1,61
	DK 2/1500	gecr	St	for PA, PC, PFL, T5 2x35/49/80 T8 2x58; KL... T5 35/49	1116 2580 100 1 1,90
	DKF 1200	gecr	St.galv.	for parsA PS LED; PU, PUPC T5 1x28/54, 2x28/54; PA, PC, T5 1x28/54 T8 1x36	5976 1360 100 1 1,23
	DKF 1500	gecr	St.galv.	for parsA PC LED; PU, PUPC T5 1x35/49/80, 2x35/49; PA, PC, T5 1x35/49/80 T8 1x58	5976 1580 100 1 1,54
Protective cage mounting	DK -HB 2/	vw	St.galv.	Retaining bracket for DK 2x...	5970 2000 100 2 0,20
	DKF -HB	vw	St.galv.	Retaining bracket for DKF	5976 1000 100 2 0,10
Diffuser clips of stainless steel	PA/PC -CLIPS V2A me	Inox		for PA..., PC... 18W = 6x, 36W = 8x, 58W 10x	9486 1000 100 1 0,01
<i>Mounting</i>					
Chain suspension	KH	me	St	for ILF, PFP, PFK, PA..., PC...	9482 2277 100 1 0,03
Diffuser clips of stainless steel	PA/PC -CLIPS V2A me	Inox		for PA..., PC... 18W = 6x, 36W = 8x, 58W 10x	9486 1000 100 1 0,01
<i>Mounting</i>					
Chain suspension	KH	me	St	for ILF, PFP, PFK, PA..., PC...	9482 2277 100 1 0,03

## Replacement parts

Type	Colour	Material	Details	Item number	
<i>Lighting technology</i>					
Diffuser	Wanne PC T8 1/1200	tz	PC	for PC T5 1x28/54, T8 1x36	9220 1365 100 1 0,33
	Wanne PC T8 1/1500	tz	PC	for PC T5 1x35/49/80, T8 1x58	9220 1585 100 1 0,47
	Wanne PC T8 2/1200	tz	PC	for PC T5 2x28/54, T8 2x36	9220 2365 100 1 0,53
	Wanne PC T8 2/1500	tz	PC	for PC T5 2x35/49, T8 2x58	9220 2585 100 1 0,80
<i>Mounting</i>					
Small parts bag	PA - PC Kleinteilebeutel PA	ga	Mix	for PA, PC	5670 1000 100 1 0,02







# PFL

## PFL – 100% performance – reduced to the essentials

Vapour-proof luminaire with open distribution fluorescent lamps, with IP65 protection rating. Flame-resistant housing, chemically resistant, made of glass-fibre reinforced polyester, for aggressive environments. Housing components have a rubber sealing resistant to ageing and are fixed with plastic screws. According to demand and requirement, the luminaires can be additionally equipped with reflectors, lamp protection tubes and wire protective cages. The upper part of the housing has cable entry at the end caps for easy surface mounting and through wiring. In addition to that, PFL as a luminaire with insulation class II is equipped with a 2-pole terminal block with plug-in connection.



### Type overview

- ▶ PFL Direct/indirect general diffuse



# PFL T5/T8



**Mounting:**

- Ceiling surface
- Mounting rail
- Suspended

**Housing:**

- Polyester, glass fibre reinforced

**Lighting technology PFL:**

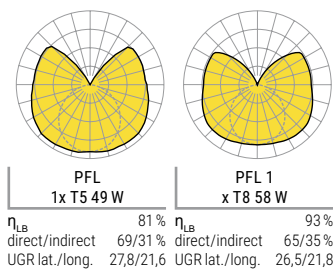
- Open distribution
- Lighting characteristic direct/indirect general diffuse

**Lamp:**

- For fitting with lamp(s) T5 or T8

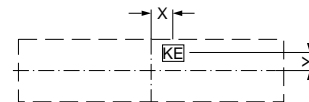
**Switching:**

- 1 Control gear
- Electronic ballast
- 230V 50Hz

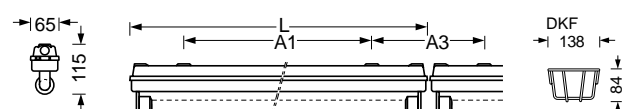


**Dimensions**

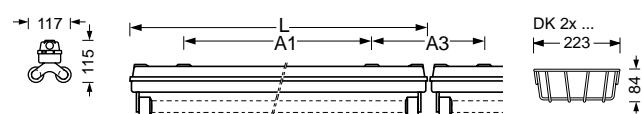
Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
PF.	T5 1x14, 24 W	661 x 65 x 115	320	341	330,5 / 0
	T5 1x28, 54 W	1271 x 65 x 115	900	371	635,5 / 0
	T5 1x35, 49, 80 W	1571 x 65 x 115	900	671	785,5 / 0
	T5 2x28, 54 W	1271 x 117 x 115	900	371	635,5 / 0
	T5 2x35, 49, 80 W	1571 x 117 x 115	900	671	785,5 / 0
	T8 1x18W	661 x 65 x 115	320	341	330,5 / 0
	T8 1x36W	1271 x 65 x 115	900	371	635,5 / 0
	T8 1x58W	1571 x 65 x 115	900	671	785,5 / 0
	T8 2x36W	1271 x 117 x 115	900	371	635,5 / 0
	T8 2x58W	1571 x 117 x 115	900	671	785,5 / 0



PA. 1x ...



PA. 2x ...





## Products

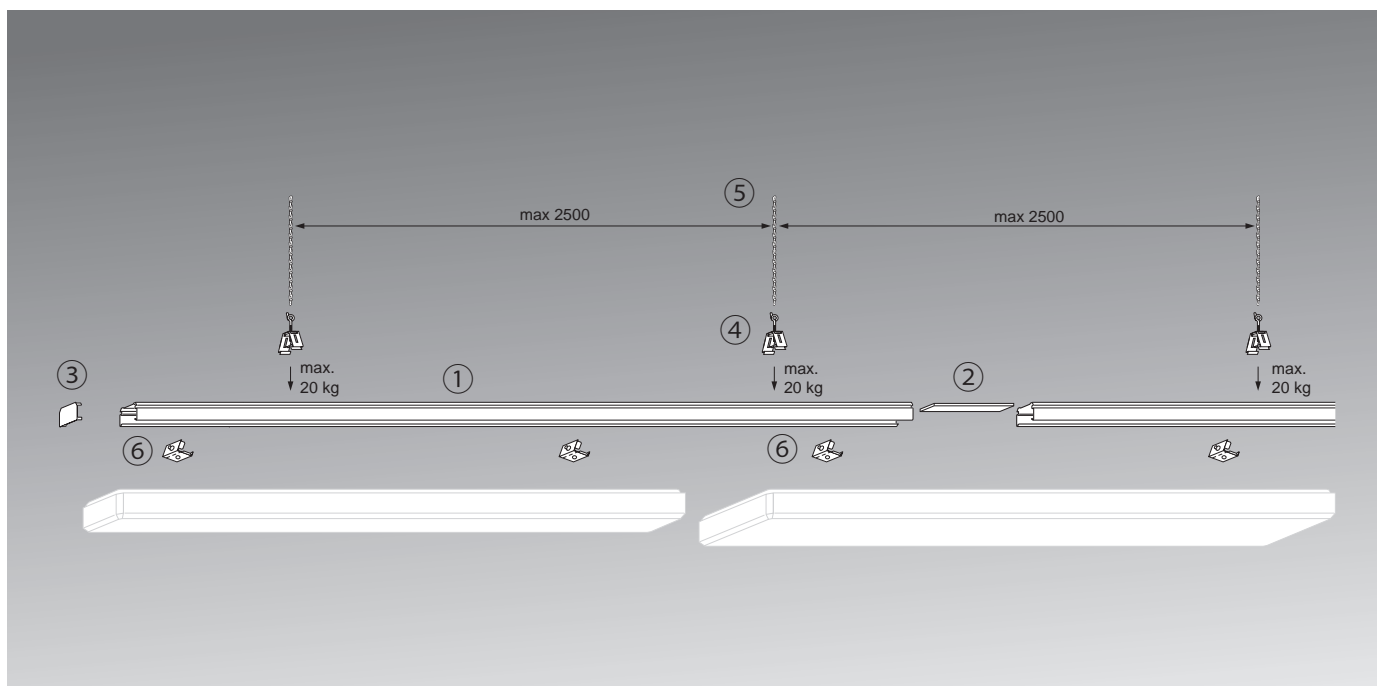
Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Open distribution direct/indirect general diffuse</i>							
PFL	T5 1x14W	16	hg	ECG	661 x 65 x 115	5552 1144 100	1,09
	T5 1x49W	52	hg	ECG	1571 x 65 x 115	5552 1494 100	1,68
	T5 1x54W	58	hg	ECG	1271 x 65 x 115	5552 1544 100	1,41
	T5 1x80W	85	hg	ECG	1571 x 65 x 115	5552 1804 100	1,68
	T5 2x49W	104	hg	ECG	1571 x 117 x 115	5552 2494 100	1,92
	T5 2x54W	116	hg	ECG	1271 x 117 x 115	5552 2544 100	1,51
	T5 2x80W	170	hg	ECG	1571 x 117 x 115	5552 2804 100	1,92
	T8 1x18W	19	hg	ECG	661 x 65 x 115	5552 1184 100	0,99
	T8 1x36W	36	hg	ECG	1271 x 65 x 115	5552 1364 100	1,41
	T8 1x58W	55	hg	ECG	1571 x 65 x 115	5552 1584 100	1,97
	T8 2x36W	72	hg	ECG	1271 x 117 x 115	5552 2364 100	1,71
	T8 2x58W	110	hg	ECG	1571 x 117 x 115	5552 2584 100	2,06

## Accessories

Type	Colour	Material	Details	Item number		
<i>Lighting technology</i>						
Reflector	SDR/PFL T8 36	vw	St.galv.	for PFL .../36	1870 3360 100	1 1,53
	SDR/PFL T8 58	vw	St.galv.	for PFL .../58	1870 3580 100	1 1,90
<i>Electrical technology</i>						
Through-wiring cable	VLVP 1500	ws	H05V2-U+H05S-U	4x1.5mm <sup>2</sup> for PFL	1953 1580 100	1 0,20
<i>Protection</i>						
Protective wire cage	DK 1/0600	gecr	St	for PFL T5 1x14, T8 1x18	1116 1180 100	1 0,59
	DK 1/1200	gecr	St	for PFL T5 1x54, T8 1x36	1116 1360 100	1 1,10
	DK 1/1500	gecr	St	for PFL T5 1x49/80, T8 1x58	1116 1580 100	1 1,35
	DK 2/1200	gecr	St	for PA, PC, PFL, T5 2x28/54, T8 2x36; KL... T5 28/54	1116 2360 100	1 1,61
	DK 2/1500	gecr	St	for PA, PC, PFL, T5 2x35/49/80 T8 2x58; KL... T5 35/49	1116 2580 100	1 1,90
Protective cage mounting	DK -HB 1/	vw	St.galv.	Retaining bracket for DK 1x...	5970 1000 100	2 0,10
	DK -HB 2/	vw	St.galv.	Retaining bracket for DK 2x...	5970 2000 100	2 0,20
Lamp protection tube	KSR/PFL T5 14	kl	PC	for PFL 14 EVG/HF	9238 0920 100	1 0,15
	KSR/PFL T5 35/49	kl	PC	for PFL 35/49 EVG/HF	9238 0950 100	1 0,29
	KSR/PFL T8 18	kl	PC	for PFL 18 EVG/HF	9238 0180 100	1 0,15
	KSR/PFL T8 36	kl	PC	for PFL 36 EVG/HF	9238 0360 100	1 0,20
	KSR/PFL T8 58	kl	PC	for PFL 58 EVG/HF	9238 0580 100	1 0,29
<i>Mounting</i>						
Chain suspension	KAH	ws	PA	M6 for PFL, ILG 1200/1500	5910 2000 100	2 0,10



# Accessories for mounting rail installation



- ① ATS unwired mounting rail
- ② SDTSV mounting rail connector
- ③ SDTE mounting rail protective cover (end face)
- ④ mounting rail fixing / suspension SDA/SDH
- ⑤ Suspension (chain) /KP/KK
- ⑥ Luminaire fixing ATSLA

## Accessories

	Type	Colour	Material	Details	Item number		
<i>Design</i>							
Section cover	SDBK 1500	vw	PVC	for SDT 1500, ATS	1883 7580 100	1	0,24
<i>Protection</i>							
Protective cover IP20	SDTE	vw	PC	for SDT, ATS	1890 0231 100	2	0,02
<i>Mounting</i>							
Chain suspension	KK	me	St	Chain l=30m, für SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1	4,60
	KP 80	me	St+PC	l=800mm for suspended luminaires	9282 9080 100	1	0,27
	SDH	me	Inox	for SDT, ATS at chain	1890 0039 100	1	0,04
Mounting clip	SDA	me	Inox	for ATS at ceiling	1890 0023 100	1	0,01
<i>Structure</i>							
Luminaires fixing	ATSLA	me	Inox	for ATS	1890 0088 100	1	0,02
Mounting rail	ATS 1500/II	ap	Al	l=3070mm	1890 0082 100	1	1,85
	ATS 1500/III	ap	Al	l=4605mm	1890 0083 100	1	2,77
Mounting rail connector	SDTSV	me	St.galv.	for SDT...Basic, ATS	1890 0092 100	1	0,30

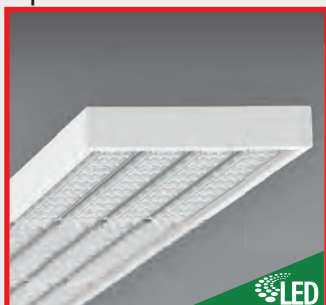






# Sport hall luminaires

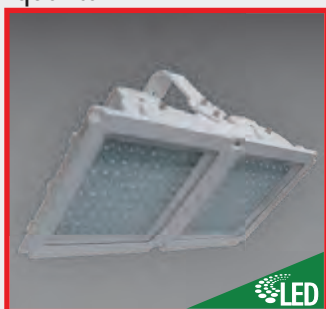
## sportler



### ►489

- 492 SOHB LED
- 492 SOHTB LED

## quanta



### ►499

- 500 QNLT LED

## THL



### ►503

- 504 THLA LED
- 504 THLA T5
- 504 THLA T8
- 506 THLE LED

from other chapters



High bay reflector  
and field luminaires

## quanta

### ►448









# sportler



## sportler – a winner for sports halls

Sports facilities make special demands on lighting systems. These demands are varied and in some ways resemble the modern pentathlon. It is reassuring to know that in the case of the sportler range of fittings, the luminaire was originally conceived with precisely this diversity in mind. This luminaire is still in the game no matter whether different lighting technologies are required because of marked differences in mounting heights, varying installation options, excellent glare control or differing lumen outputs. Winners are not so easily beaten.



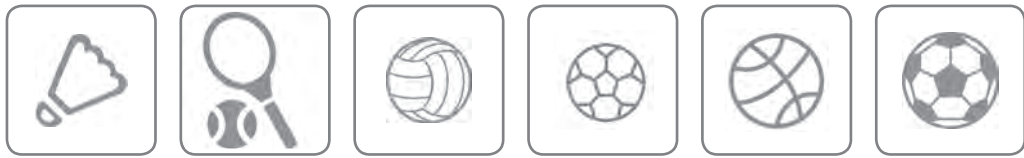
### Type overview

- ▶ SOHB Individual.Lens.Optic direct wide distribution
- ▶ SOHTB Individual.Lens.Optic direct narrow/wide distribution



# sportler

A winner for sports halls



## Best performance in the technical disciplines

- Very good anti-glare characteristics - UGR 19
- Efficient lighting technology with Individual.Lens.Optic
- Output levels from 14,700 lumen
- Suitable for ambient temperatures up to +35°C
- Can be used with mounting rails and inclined mounting



### Service life



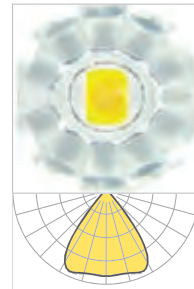
### Individual.Lens.Optic

SOHB



wide distribution

SOHTB



narrow/wide distribution





LED A++ IP 40

**Mounting:**

- Suspended
- Ceiling surface

**Housing:**

- Sheet steel housing, powder-coated

**Lighting technology SOHB:**

- Individual.Lens.Optic; PMMA plastic
- Lighting characteristic direct wide distribution

**Lighting technology SOHTB:**

- Individual.Lens.Optic; PMMA plastic
- Lighting characteristic direct narrow/wide distribution

**Lamp:**

- LED
- CRI ≥ 80 / 4000K

**Switching:**

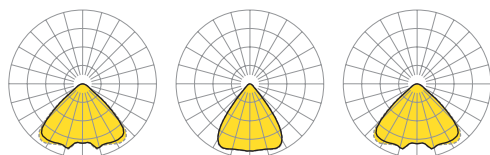
- Various switching modes available
- The number of control units varies according to the version
- Electronic driver
- 230V 50Hz

**Miscellaneous:**

- Electrical connection via connection cable 2,3 m

**Accessories:**

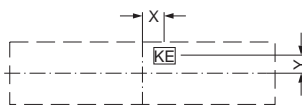
- Protection and mounting accessories must be ordered separately



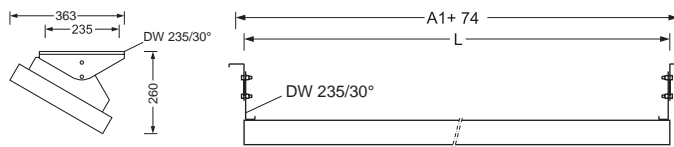
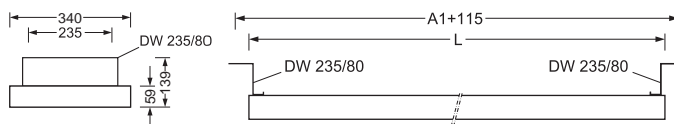
SOHB/0700 IP40 LED 14700 lm 840		SOHTB/1000 IP40 LED 22200 lm 840		SOHB/1300 IP40 LED 29600 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	131	lm/W	132	lm/W	132
direct/indirect	100/0%	direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	22,0/22,2	UGR lat./long.	19,0/19,1	UGR lat./long.	22,0/22,2

## Dimensions

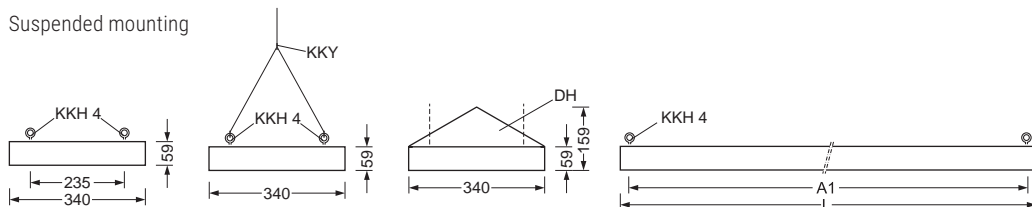
Type	Versions	LxBxH/DxH	A1	A4	KE X/Y
SOH./0700	LED	688 x 340 x 59	655	235	261 / 0
SOH./1000	LED	1013 x 340 x 59	980	235	423,5 / 0
SOH./1300	LED	1338 x 340 x 59	1305	235	586 / 0

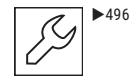


### Surface mounting



### Suspended mounting





## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Individual.Lens.Optic direct wide distribution</i>							
sportler-SOHB/0700 IP40	LED 14700lm 840	112	vw	ED	688 x 340 x 59	3743 0124 110	6,40
				DALI	688 x 340 x 59	3743 0126 610	6,40
sportler-SOHB/1000 IP40	LED 22200lm 840	168	vw	ED	1013 x 340 x 59	3743 0224 110	9,00
				DALI	1013 x 340 x 59	3743 0226 610	9,00
sportler-SOHB/1300 IP40	LED 29600lm 840	224	vw	ED	1338 x 340 x 59	3743 0324 110	11,40
				DALI	1338 x 340 x 59	3743 0326 610	11,40
<i>Individual.Lens.Optic direct narrow/wide distribution</i>							
sportler-SOHTB/0700 IP40	LED 14800lm 840	112	vw	ED	688 x 340 x 59	3743 0124 130	6,40
				DALI	688 x 340 x 59	3743 0126 630	6,40
sportler-SOHTB/1000 IP40	LED 22200lm 840	168	vw	ED	1013 x 340 x 59	3743 0224 130	9,00
				DALI	1013 x 340 x 59	3743 0226 630	9,00
sportler-SOHTB/1300 IP40	LED 29600lm 840	224	vw	ED	1338 x 340 x 59	3743 0324 130	11,40
				DALI	1338 x 340 x 59	3743 0326 630	11,40

## Accessories

	Type	Colour	Material	Details	Item number	kg
<i>Protection</i>						
Roof hood	DH /0700	vw	St	for sportler, worker	3729 0700 100	1 1,50
	DH /1000	vw	St	for sportler, worker	3729 1000 100	1 2,20
	DH /1300	vw	St	for sportler, worker	3729 1300 100	1 2,80
<i>Mounting</i>						
Chain suspension	KK	me	St	Chain l=30m, for SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1 4,60
	KKH 4	me	St	Chain carabiner suspension kit for worker, sportler, hara	3729 0004 100	4 0,11
	KKY 2	me	St	Chain carabiner set for Y suspension	3729 0005 100	2 0,03
Mounting-ceiling	DW 235/80	vw	St	Ceiling brackets fix for sportler, worker, hara	3729 0001 100	2 1,00
	DW 235/30°	vw	St	Ceiling brackets variable for sportler	3729 0006 100	2 1,62





# Planning a sports hall

## Gymnasium

In the case of an inclined roof surface an individual lighting calculation is recommended.

Mounting height MH = 7 m

### Calculation basis/legend

E = Nominal illuminance

$E_m$  = Average illuminance (hall)

$E_{m1/3}$  = Average illuminance (1/3 hall)

Utilization plane = 0,0 m

### Reflection values

$\rho = 0,7$  (ceiling)/  $0,5$  (wall)/  $0,3$  (floor)

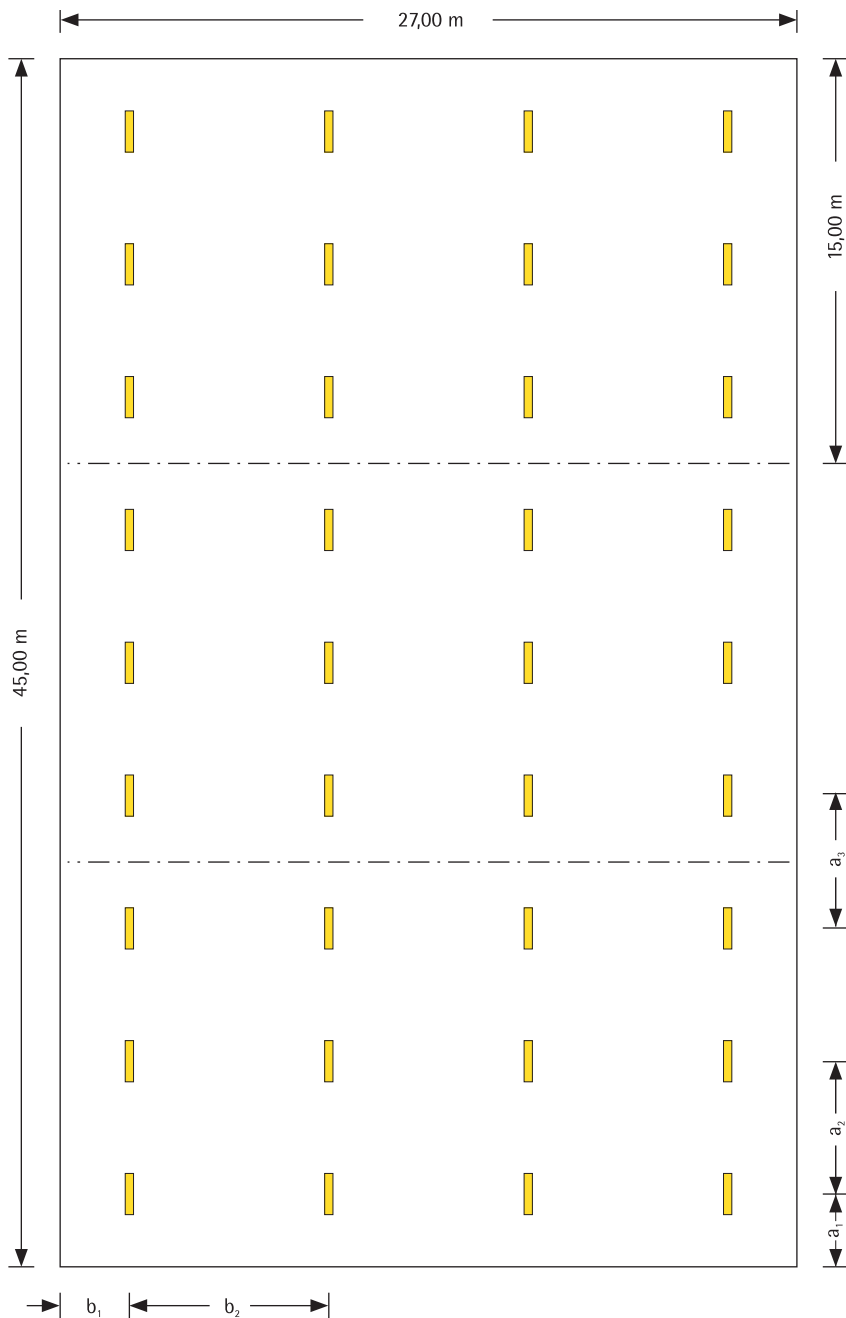
$a_1 / a_2 / a_3$  = Longitudinal spacing

$b_1 / b_2$  = Transverse spacing

$G_1 = E_{min} : E_m$

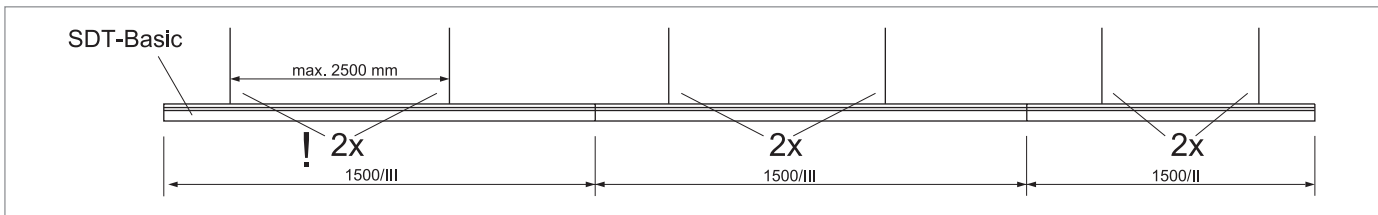
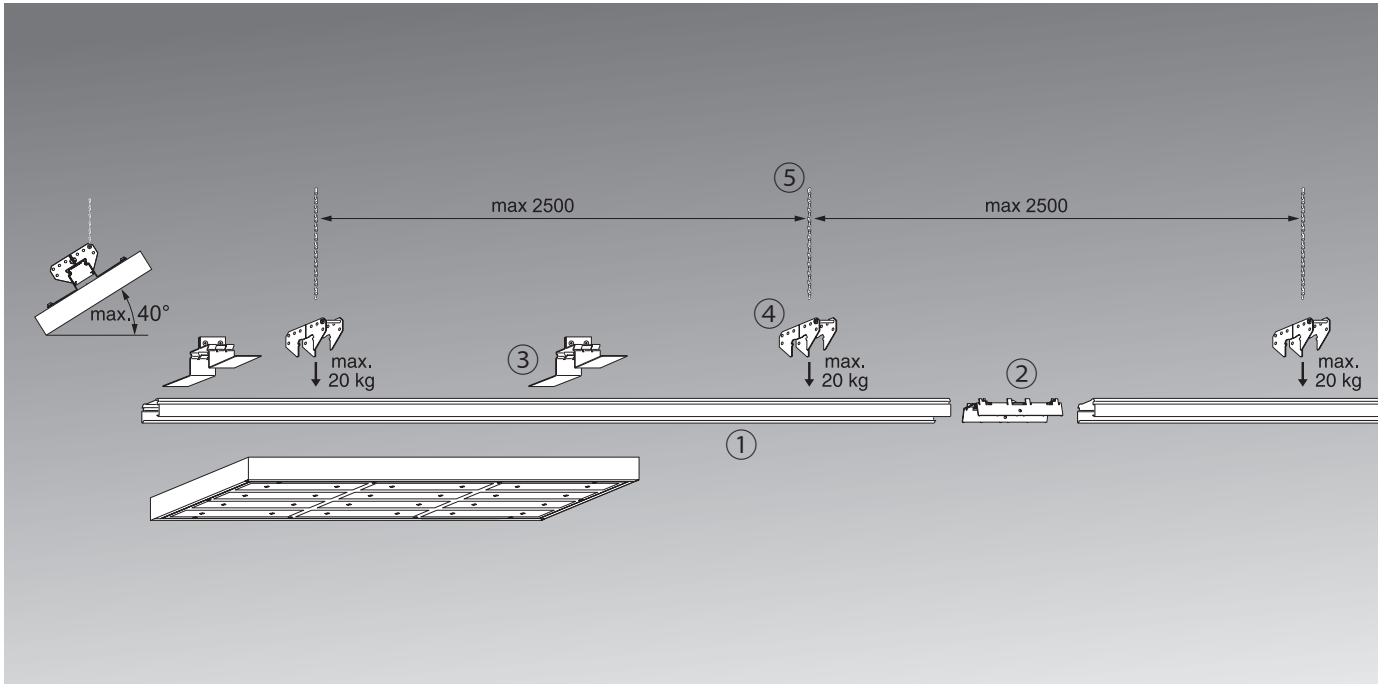
### Lamps:

LED LF 840



Type	lamps	E	no. of luminaires	Total power consumption (incl. ED)	$a_1$	$a_2$	$a_3$	$b_1$	$b_2$	$G_1$	$E_m$	$E_{m1/3}$
SOHB/700	LED 14700	300 lx	4 x 9 = 36	4,039 kW	2,50 m	5,00 m	5,00 m	2,25 m	7,50 m	1 : 1,3	370 lx	320 lx
SOHB/700	LED 14700	500 lx	4 x 12 = 48	5,386 kW	1,88 m	3,75 m	3,75 m	2,25 m	7,50 m	1 : 1,3	500 lx	420 lx
SOHB/1000	LED 22200	300 lx	4 x 6 = 24	4,042 kW	3,75 m	7,50 m	7,50 m	2,25 m	7,50 m	1 : 1,3	370 lx	330 lx
SOHB/1000	LED 22200	500 lx	4 x 9 = 36	6,062 kW	2,50 m	5,00 m	5,00 m	2,25 m	7,50 m	1 : 1,3	550 lx	480 lx
SOHB/1300	LED 29600	300 lx	3 x 6 = 18	4,041 kW	3,75 m	7,50 m	7,50 m	4,50 m	9,00 m	1 : 1,3	370 lx	330 lx
SOHB/1300	LED 29600	500 lx	4 x 6 = 24	5,388 kW	3,75 m	7,50 m	7,50 m	2,25 m	7,50 m	1 : 1,3	500 lx	430 lx
SOHTB/700	LED 14800	300 lx	4 x 9 = 36	4,039 kW	2,50 m	5,00 m	5,00 m	2,25 m	7,50 m	1 : 1,3	380 lx	340 lx
SOHTB/700	LED 14800	500 lx	4 x 12 = 48	5,386 kW	1,88 m	3,75 m	3,75 m	2,25 m	7,50 m	1 : 1,3	510 lx	460 lx
SOHTB/1000	LED 22200	300 lx	4 x 6 = 24	4,042 kW	3,75 m	7,50 m	7,50 m	2,25 m	7,50 m	1 : 1,3	390 lx	350 lx
SOHTB/1000	LED 22200	500 lx	4 x 9 = 36	6,062 kW	2,50 m	5,00 m	5,00 m	2,25 m	7,50 m	1 : 1,3	580 lx	520 lx
SOHTB/1300	LED 29600	300 lx	3 x 6 = 18	4,041 kW	3,75 m	7,50 m	7,50 m	4,50 m	9,00 m	1 : 1,3	400 lx	360 lx
SOHTB/1300	LED 29600	500 lx	4 x 6 = 24	5,388 kW	3,75 m	7,50 m	7,50 m	2,25 m	7,50 m	1 : 1,3	520 lx	470 lx

# Accessories for mounting rail installation



- ① SDT basic unwired mounting rail
- ② SDTV mounting rail connector
- ③ Luminaire fixing BW-SDT
- ④ Angle hanger SDT-WA
- ⑤ Suspension (chain) KK

## Accessories

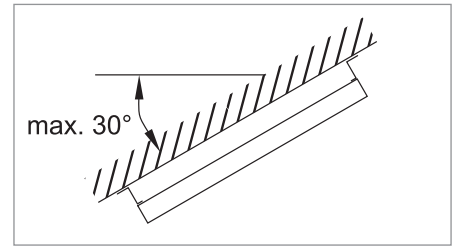
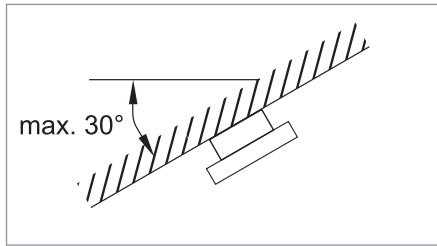
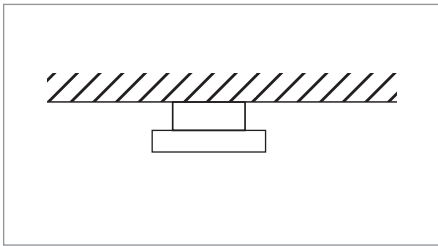
	Type	Colour	Material	Details	Item number		
<i>Design</i>							
Section cover	SDBAV 1500	vw	St	l=7x219=1533mm for SDT Basic	1884 5580 101	1	0,85
<i>Mounting</i>							
Chain suspension	KK	me	St	Chain l=30m, for SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1	4,60
	SDT-WA	me	St	for SDT Basic	6820 9300 120	1	0,25
<i>Structure</i>							
Luminaires fixing	BW-SDT	vw	St	SDT mounting set for sportler, worker	3729 0009 100	2	0,88
Mounting rail	SDT Basic 1500/II	vw	St.galv.	l=3070mm 2.6kg for surface-mounted luminaires	1825 2580 150	1	2,60
	SDT Basic 1500/III	vw	St.galv.	l=4605mm 3.9kg for surface-mounted luminaires	1825 3580 150	1	3,90
Mounting rail connector	SDTV	me	St.galv.	for SDT	1820 0020 100	1	0,22



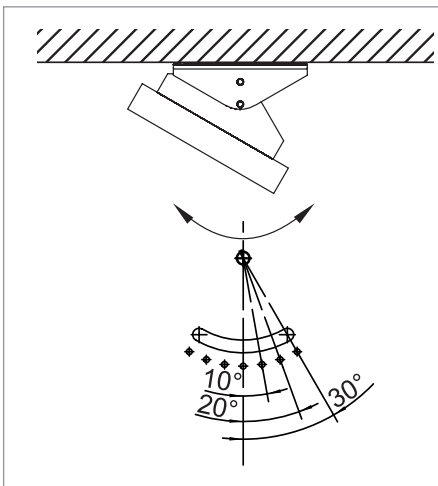
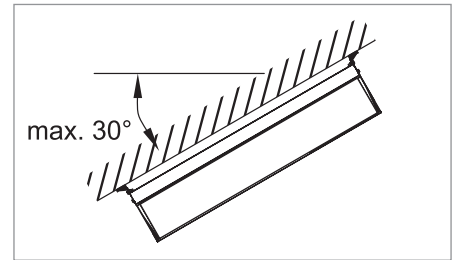
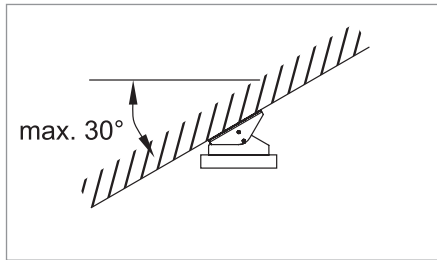
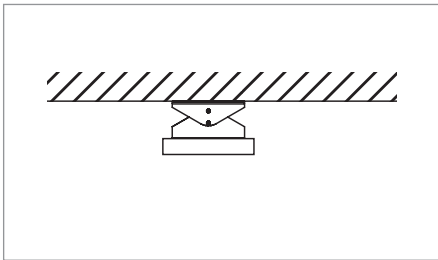
# Mounting note sportler

## Surface mounting

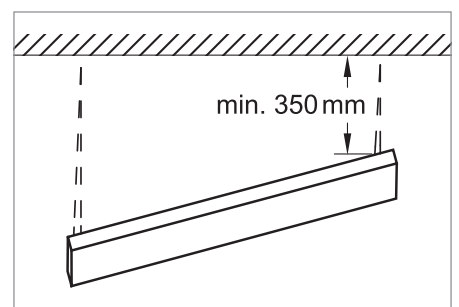
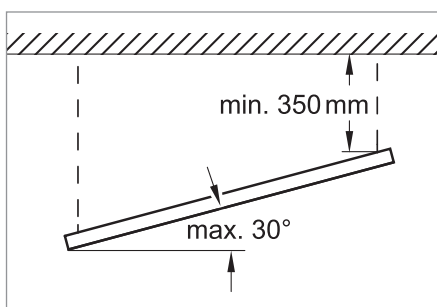
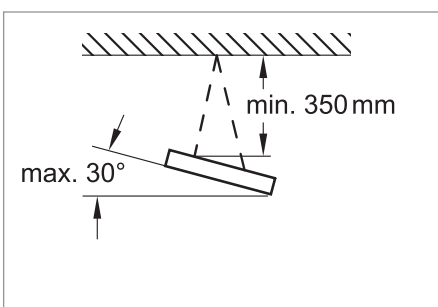
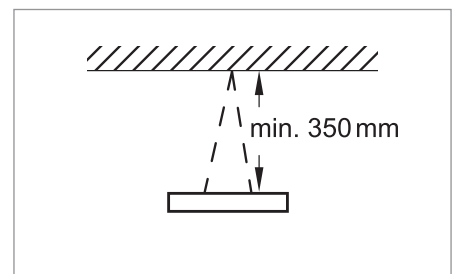
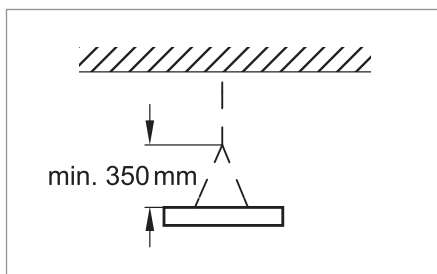
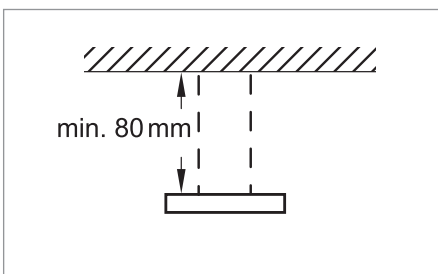
DW 235/80



DW 235/30°



## Suspended mounting











# quanta

## quanta – in the next generation

The new quanta sets new standards in its performance class. The compact shape factor in the new robust housing easily withstands all challenging industrial conditions. Due to further increase of efficiency and the very high lumen output up to 43,600 lm, protection rating IP66, ambient temperatures of -25 °C up to + 45 °C and general ball impact resistance, the improved performance level of the new generation quanta can be applied even more distinctly and more versatile. The various precise light technologies, wide or narrow distribution provide efficiency in the lighting installation. This applies for new installation systems, but also for replacement of existing luminaires. Mounting clamp, suspension at 2 or 4 points as well as pre-assembled 2 m connection cable result in our assessment as being easy to install. Long maintenance intervals are achieved using high-performance LED modules and optimal thermal management using a die-cast aluminium enclosure. These are the requirements for future-proof and reliable industrial and field lighting.



## Type overview

- ▶ QNLT LED lens optics and transparent cover pane direct narrow distribution IP 66



LED IP 66

**Mounting:**

- Suspended
- Ceiling surface

**Housing:**

- Housing frame made of die-cast aluminium

**Lighting technology QNLT:**

- LED lens optics and transparent cover pane; safety glass (ESG)
- Lighting characteristic direct narrow distribution

**Lamp:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Switching:**

- The number of control units varies according to the version
- Electronic driver
- 230V 50Hz

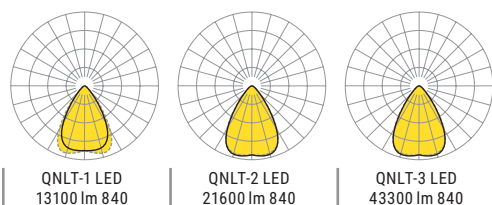
**Miscellaneous:**

- Electrical connection via connection cable 2 m
- Freely suspended luminaires weighing over 5 kg must be secured with two separately independent suspension systems (In compliance with VDE 0100-718.559.4.1)

**Accessories:**

- Suspension kit QN-AS and knotted-link chain KK for chain suspension to be ordered separately

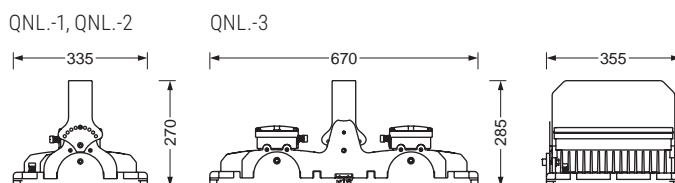
quanta QNLT-2 LED



η <sub>LB</sub> lm/W	100% 126 lm/W	η <sub>LB</sub> lm/W	100% 130 lm/W	η <sub>LB</sub> lm/W	100% 130 lm/W
direct/indirect	100/0%	direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	20,7/21,3	UGR lat./long.	23,2/23,4	UGR lat./long.	22,9/23,1

**Dimensions**

Type	Versions	LxBxH/DxH
QNL.-1	LED	335 x 355 x 270
QNL.-2	LED	335 x 355 x 270
QNL.-3	LED	670 x 355 x 285



**Products**

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>LED lens optics and transparent cover pane direct narrow distribution IP 66</i>							
quanta-QNLT-1	LED 13100lm 840	104	sg	ED	335 x 355 x 270	3701 2014 125	12,50
				DALI	335 x 355 x 270	3701 2016 625	12,50
quanta-QNLT-2	LED 21600lm 840	166	sg	ED	335 x 355 x 270	3701 2034 125	12,50
				DALI	335 x 355 x 270	3701 2036 625	12,50
quanta-QNLT-3	LED 43300lm 840	332	sg	ED	670 x 355 x 285	3701 2054 125	25,00
				DALI	670 x 355 x 285	3701 2056 625	25,00

**Accessories**

Type	Colour	Material	Details	Item number	
<i>Mounting</i>					
Chain suspension	me	St	Chain l=30m, für SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1 4,60
	me	St	Snap-hook set for quanta	3701 9000 100	1 0,05
	me	St	Snap-hook set for quanta	3701 9002 100	1 0,10

# Planning of a gymnasium

## Gymnasium

In the case of an inclined roof surface an individual lighting calculation is recommended.

Room height  $R_H = 7$  m

### Calculation basis/legend

$E$  = Nominal illuminance

$E_m$  = Average illuminance (hall)

$E_{m1/3}$  = Average illuminance (1/3 hall)

Utilization plane = 0,0 m

### Reflection values:

$\rho = 0,7$  (ceiling)/  $0,5$  (wall)/  $0,3$  (floor)

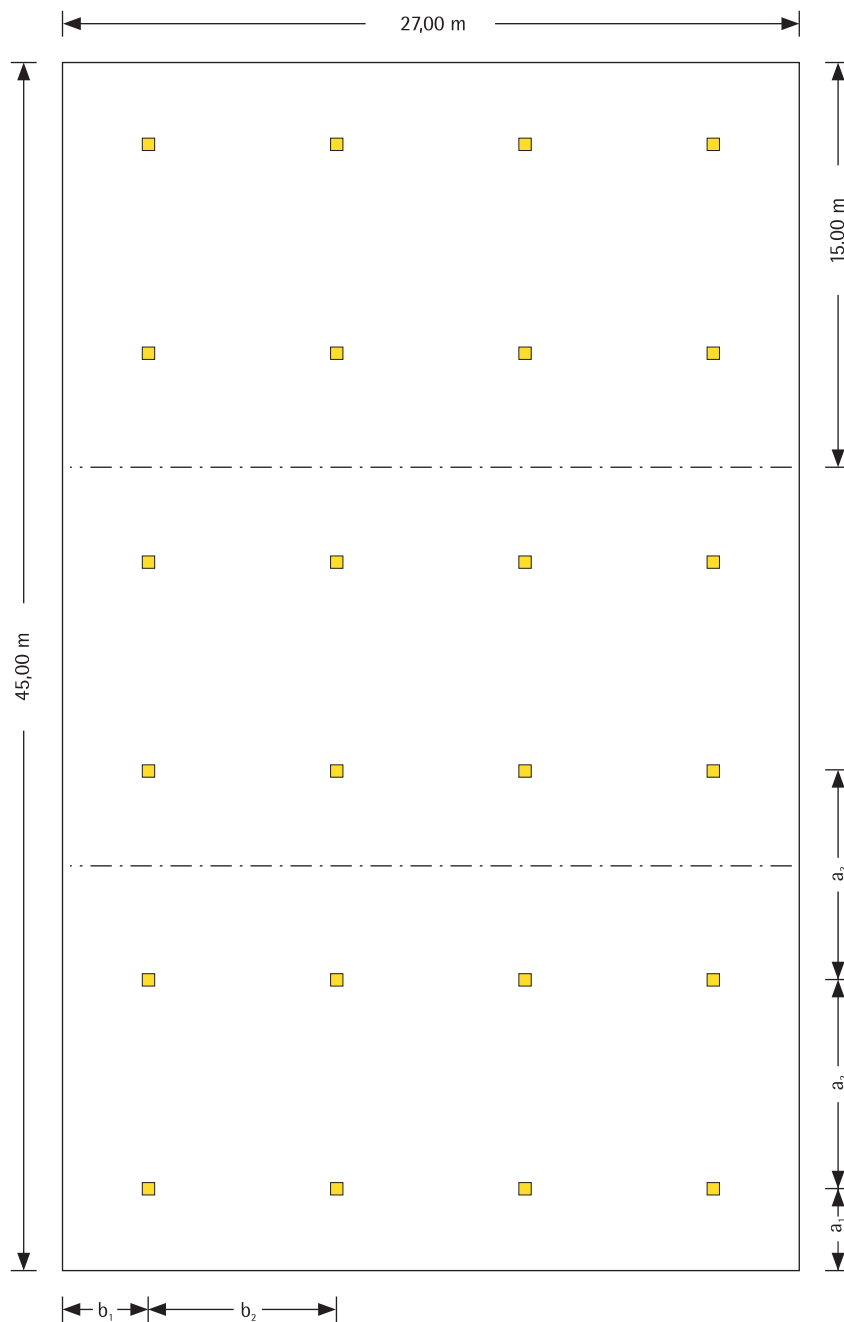
$a_1 / a_2 / a_3$  = Longitudinal spacing

$b_1 / b_2$  = Transverse spacing

$G_1 = E_{min} : E_m$

Lamps:

LED LF 840



Type	lamps	E	no. of luminaires	Total power consumption (incl. Eb)	$a_1$	$a_2$	$a_3$	$b_1$	$b_2$	$G_1$	$E_m$	$E_{m1/3}$
QNLT-1 LED	13100 lm	300 lx	4 x 9 = 36	3,744 kW	2,50 m	5,00 m	5,00 m	3,38 m	6,75 m	1 : 1,3	340 lx	300 lx
QNLT-2 LED	21600 lm	300 lx	4 x 6 = 24	3,984 kW	3,75 m	7,50 m	7,50 m	3,38 m	6,75 m	1 : 1,3	380 lx	350 lx
QNLT-2 LED	21600 lm	500 lx	4 x 9 = 36	5,976 kW	2,50 m	5,00 m	5,00 m	3,38 m	6,75 m	1 : 1,3	560 lx	500 lx
QNLT-3 LED	43300 lm	500 lx	3 x 6 = 18	5,976 kW	3,75 m	7,50 m	7,50 m	4,50 m	9,00 m	1 : 1,43	580 lx	530 lx







# THL

## THL – the athlete among luminaires

These sport hall luminaires from Regiolux are perfectly suitable for installation as recessed luminaires for system ceilings and cut-out intermediate ceilings (THLE), or directly below the ceiling (THLA). If required, the luminaire can also be suspended, with either horizontal or oblique suspension. These luminaires have an especially robust construction of sheet steel with ball-proof metal louvres and spring catches that can only be opened with tools. Discontinued lighting strips often required for sports halls are simple to install with luminaire suspension to the SDT-Basic double mounting rail.

The sheet steel housing has robust face ends with integrated knock-outs for through-wiring. 5-pole terminals with plug-in contact provide the electrical connection. Modern multifunctional controls are also available, allowing use of sports halls for other types of events, and also T5/T8 versions with emergency lighting.



### Type overview

- ▶ THLA Louvre, white direct wide distribution
- ▶ THLE Louvre, white direct wide distribution



# THLA LED/T5/T8



LED A+ A 100% 4000K 5000h CE IP 20

**Mounting:**

- Ceiling surface
- Suspended

**Housing:**

- Sheet steel housing

**Lighting technology THLA:**

- Louvre, white
- Lighting characteristic direct wide distribution

**Lamp THLA LED:**

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Lamp THLA:**

- For fitting with lamp(s) T5 or T8

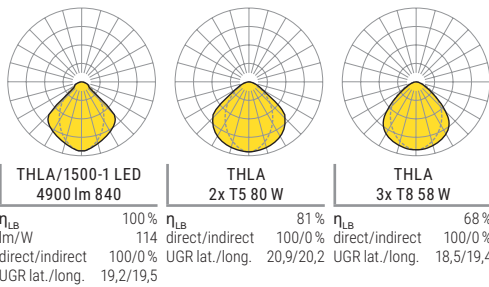
**Switching:**

- Various switching modes available
- The number of control units varies according to the version
- Electronic driver
- 230V 50Hz

**Accessories:**

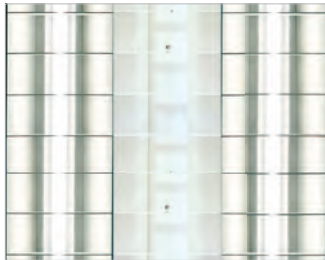
- The accessories for suspended mounting installation must be ordered separately

THLA/1500-1 1 x LED  
THLA 1 x T5  
THLA 1 x T8

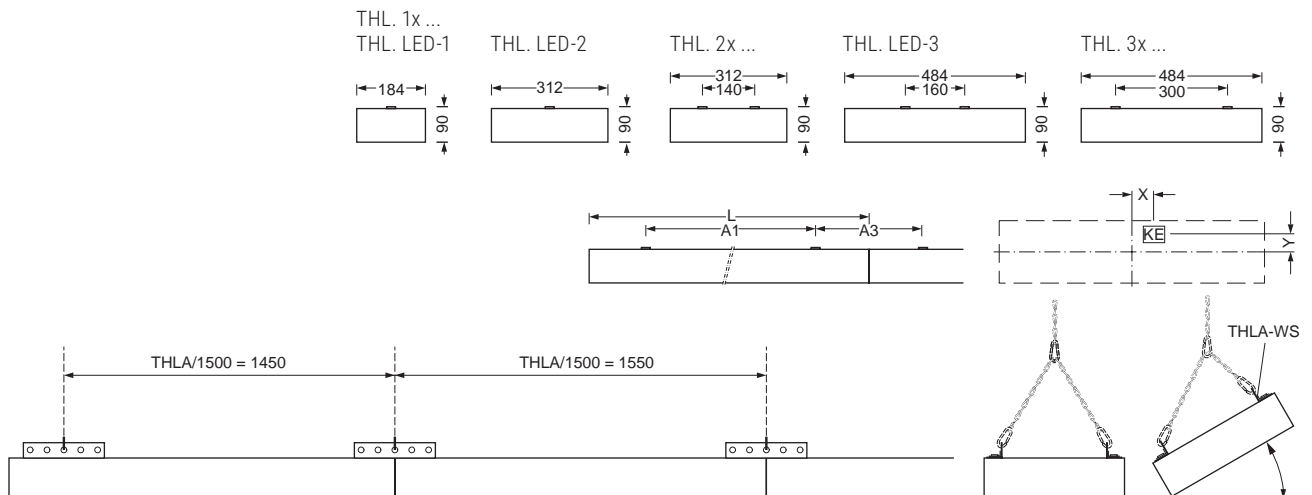


**Dimensions**

Type	Versions	LxBxH/DxH	A1	A3	A4	KE X/Y
THLA	T5 1x35, 49, 80 W	1548 x 184 x 90	1300	248	-	0 / 70
	T5 2x35, 49, 80 W	1548 x 312 x 90	1300	248	140	0 / 0
	T5 3x35, 49, 80 W	1548 x 484 x 90	1300	248	300	0 / 75
	T8 1x58W	1548 x 184 x 90	1300	248	-	0 / 70
	T8 2x58W	1548 x 312 x 90	1300	248	140	0 / 0
	T8 3x58W	1548 x 484 x 90	1300	248	300	0 / 75
THLA/1500-1	LED	1548 x 184 x 90	1300	248	-	0 / 70
THLA/1500-2	LED	1548 x 312 x 90	1300	248	-	0 / 0
THLA/1500-3	LED	1548 x 484 x 90	1300	248	160	0 / 70



In the case of the upgrade luminaire THLA/1500-3-2 LED the middle luminaire louvre is not fitted with an illuminant. Non-dimmable versions nevertheless retain the advantages of gang switching.

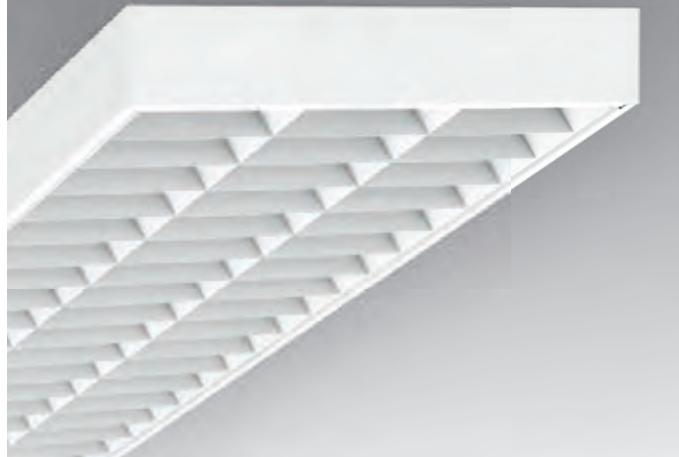




THLA/1500-2 2 x LED  
THLA 2 x T5  
THLA 2 x T8



THLA/1500-3 2 x LED  
THLA/1500-3 3 x LED  
THLA 3 x T5  
THLA 3 x T8



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	kg
<i>Louvre, white direct wide distribution</i>							
THLA	T5 1x80W	85	vw	ECG	1548 x 184 x 90	6810 1804 100	8,15
	T5 2x80W	170	vw	ECG	1548 x 312 x 90	6810 2804 100	12,42
	T5 3x80W	255	vw	ECG	1548 x 484 x 90	6810 3804 100	16,00
	T8 1x58W	55	vw	ECG	1548 x 184 x 90	6810 1584 100	8,15
	T8 2x58W	110	vw	ECG	1548 x 312 x 90	6810 2584 100	12,42
	T8 3x58W	165	vw	ECG	1548 x 484 x 90	6810 3584 100	17,46
THLA/1500-1	LED 4900lm 840	43	vw	ED	1548 x 184 x 90	6811 0014 100	9,55
				DALI	1548 x 184 x 90	6811 0016 600	9,55
THLA/1500-2	LED 9700lm 840	86	vw	ED	1548 x 312 x 90	6812 0024 100	15,22
				DALI	1548 x 312 x 90	6812 0026 600	15,22
THLA/1500-3	LED 14600lm 840	128	vw	ED	1548 x 484 x 90	6813 0034 100	21,66
				DALI	1548 x 484 x 90	6813 0036 600	21,66
THLA/1500-3 -2	LED 9700lm 840	86	vw	ED	1548 x 484 x 90	6813 0024 100	20,26

## Accessories

Type	Colour	Material	Details	Item number	kg	
<i>Electrical technology</i>						
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm <sup>2</sup> for light run-capable LEDT5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1 0,16
Emergency lamp socket	E14 H	ws	Polymer	E14/IT-25 horiz. for T8	9452 0320 100	1 0,20
<i>Mounting</i>						
Chain suspension	Basic Set -KP	me	Mix	Canopy D=123mm for suspended luminaires	9282 0000 100	1 0,15
	KK	me	St	Chain l=30m, für SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1 4,60
	THLA -WS	me	St	Angle section for THLA	6810 9200 100	2 0,70





# THLE LED



IP 20

**Mounting:**

- Ceiling recessed

**Housing:**

- Sheet steel housing
- Suitable for ceiling system: concealed symmetrical rail construction; cut-out ceilings

**Lighting technology THLE:**

- Louvre, white
- Lighting characteristic direct wide distribution

**Lamp:**

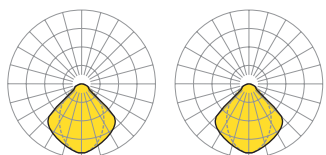
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

**Switching:**

- Various switching modes available
- The number of control units varies according to the version
- Electronic driver
- 230V 50Hz

**Accessories:**

- Mounting bracket BBT for concealed symmetrical rail constructions or recessed ceiling, to be ordered separately



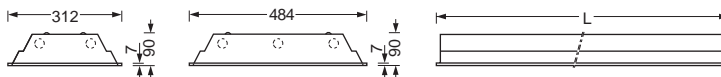
THLE/1500-2 LED 9700 lm 840		THLE/1500-3 LED 14600 lm 840	
$\eta_{LB}$	100%	$\eta_{LB}$	100%
lm/W	114	lm/W	114
direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	19,5/19,8	UGR lat./long.	19,2/19,5

**Dimensions**

Type	Versions	LxBxH/DxH	T	DA <sub>1</sub> xDA <sub>2</sub>	Et
THLE/1500-2	LED	1548 x 312 x 90	83	1535 x 300	250
THLE/1500-3	LED	1548 x 484 x 90	83	1535 x 470	250

THL.-2

THL.-3






THLE/1500-3 LED



## Products

Type	Lamps	P <sub>sys</sub> [W]	Colour	Ballast	LxBxH/DxH	Item number	
<i>Louvre, white direct wide distribution</i>							
THLE/1500-2	LED 9700lm 840	86	vw	ED	1548 x 312 x 90	7812 0024 100	12,27
THLE/1500-3	LED 14600lm 840	128	vw	ED	1548 x 484 x 90	7813 0034 100	19,10

## Accessories

Type	Colour	Material	Details	Item number	
<i>Mounting</i>					
Fastening bracket	BBT 6	me	St	for THLE/1500-2, 1500-3	7997 0006 100 6 0,05



# Planning of a gymnasium

## Gymnasium

In the case of an inclined roof surface an individual lighting calculation is recommended.

Room height  $R_H = 7$  m

### Calculation basis/legend

$E$  = Nominal illuminance

$E_m$  = Average illuminance (hall)

$E_{m1/3}$  = Average illuminance (1/3 hall)

Utilization plane = 0,0 m

### Reflection values:

$\rho = 0,7$  (ceiling)/  $0,5$  (wall)/  $0,3$  (floor)

$a_1 / a_2 / a_3$  = Longitudinal spacing

$b_1 / b_2$  = Transverse spacing

$G_1 = E_{min} : E_m$

Lamps:

Fluorescent lamp T8 (26 mm)

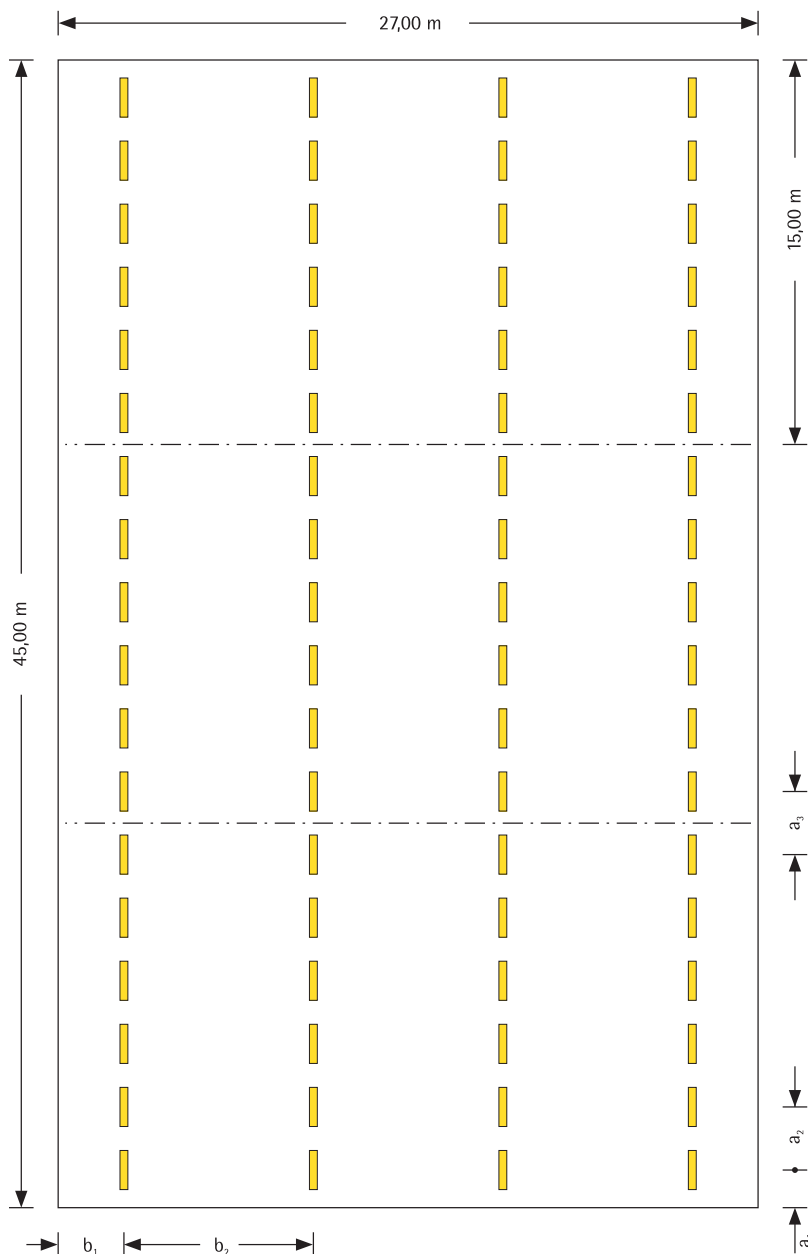
58 W/840 = 5200 lm

Fluorescent lamp T5 (16 mm)

80 W/840 = 6150 lm

LED

1500/1-LED = 4800 lm net



Type	lamps	E	no. of luminaires	Total power consumption (incl. Eb)	$a_1$	$a_2$	$a_3$	$b_1$	$b_2$	$G_1$	$E_m$	$E_{m1/3}$
THLA	2/58	500 lx	4 x 27 = 108	11,880 kW	1,25 m	1,55 m	2,60 m	2,25 m	7,50 m	1 : 1,3	500 lx	430 lx
THLA	2/58	300 lx	4 x 18 = 72	7,920 kW	1,25 m	2,50 m	2,50 m	2,25 m	7,50 m	1 : 1,3	340 lx	280 lx
THLA	3/58	500 lx	4 x 18 = 72	11,880 kW	1,25 m	2,50 m	2,50 m	2,25 m	7,50 m	1 : 1,3	500 lx	420 lx
THLA	3/58	300 lx	4 x 12 = 48	7,920 kW	1,88 m	3,75 m	3,75 m	2,25 m	7,50 m	1 : 1,3	330 lx	280 lx
THLA/THLE/1500-1 LED 4900		300 lx	4 x 24 = 96	5,280 kW	0,94 m	1,88 m	1,88 m	2,25 m	7,50 m	1 : 1,3	310 lx	270 lx
THLA/THLE/1500-2 LED 9700		500 lx	4 x 21 = 84	9,156 kW	1,07 m	2,15 m	2,15 m	2,25 m	7,50 m	1 : 1,3	550 lx	470 lx
THLA/THLE/1500-2 LED 9700		300 lx	4 x 12 = 48	5,232 kW	1,88 m	3,75 m	3,75 m	2,25 m	7,50 m	1 : 1,3	310 lx	270 lx
THLA/THLE/1500-3 LED 14600		500 lx	4 x 15 = 60	9,840 kW	1,50 m	3,00 m	3,00 m	2,25 m	7,50 m	1 : 1,3	590 lx	510 lx
THLA/THLE/1500-3 LED 14600		300 lx	4 x 9 = 36	5,904 kW	2,50 m	5,00 m	5,00 m	2,25 m	7,50 m	1 : 1,3	350 lx	310 lx
THLA	2/80	500 lx	4 x 21 = 84	14,784 kW	1,07 m	2,15 m	2,15 m	2,25 m	7,50 m	1 : 1,3	550 lx	470 lx
THLA	2/80	300 lx	4 x 12 = 48	8,448 kW	1,88 m	3,75 m	3,75 m	2,25 m	7,50 m	1 : 1,3	310 lx	270 lx
THLA	3/80	500 lx	4 x 15 = 60	15,840 kW	1,50 m	3,00 m	3,00 m	2,25 m	7,50 m	1 : 1,3	580 lx	500 lx
THLA	3/80	300 lx	4 x 9 = 36	9,504 kW	2,50 m	5,00 m	5,00 m	2,25 m	7,50 m	1 : 1,3	350 lx	300 lx



## Tennis hall

In the case of an inclined roof surface an individual lighting calculation is recommended.

### Calculation basis/legend

Average illuminance (playing field)

$E_m = 633 \text{ lx}$

Utilization plane = 0,0 m

Mounting height = 5 m

Maintenance factor = 0,8

### Reflection values:

$\rho = 0,5$  (ceiling)/  $0,3$  (Face walls )/

$0,0$  (Side Walls)/  $0,1$  (floor)

In tennis halls with several courts no reflection surfaces on the lateral playing sides

### Lamps:

Fluorescent lamp T8 (26 mm)

58 W/840 = 5200 lm

Fluorescent lamp T5 (16 mm)

49 W/840 = 4300 lm

80 W/840 = 6150 lm

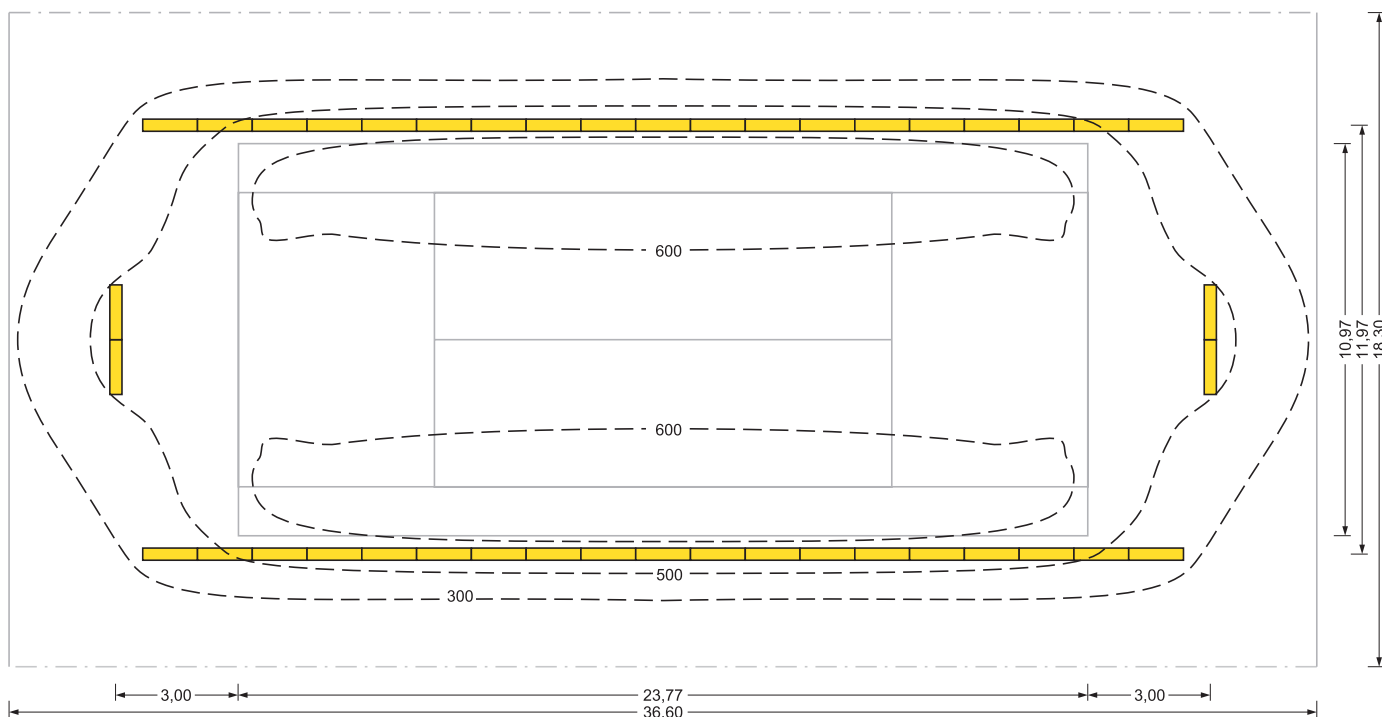
LED

1500/1-LED = 4800 lm net

Lighting class	I	II	III
Average illuminance (lx)	750	500	300
Uniformity	0,7	0,7	0,5

THLA/1500-2 LED 9600lm

$E_m = 586 \text{ lx}$

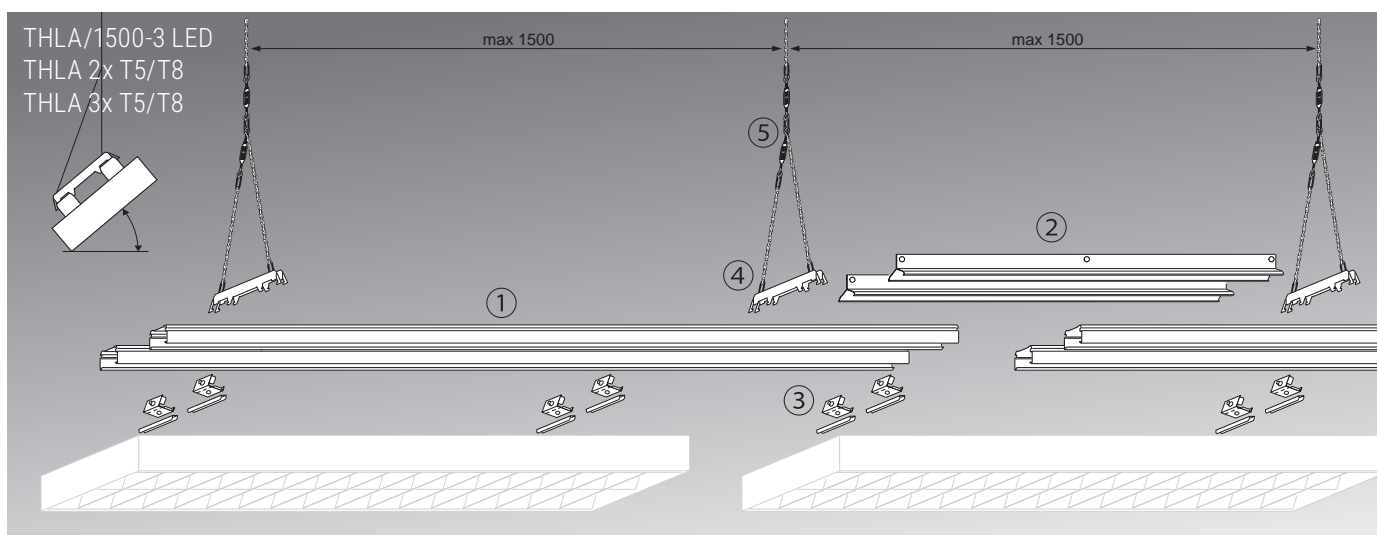
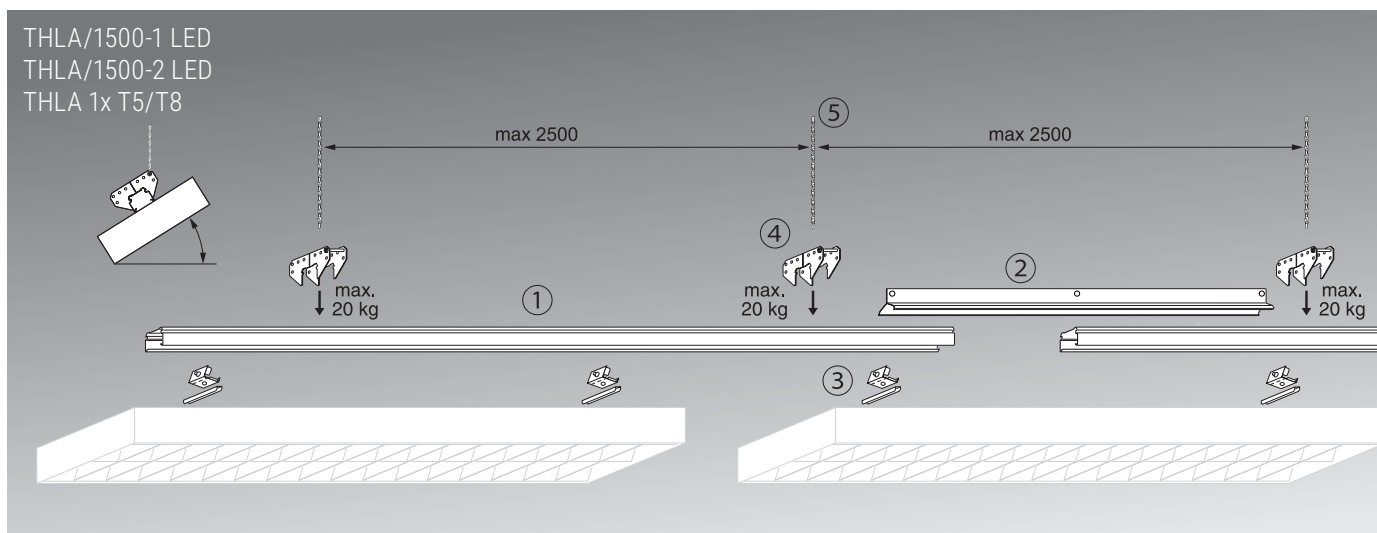


Type	lamps	no. of luminaires	$E_m$	$E_{m2/3}$	$E_{m1/3}$	G
THLA	2/80	2 x 19 + 2 x 2 = 42	572 lx			0,87
THLA	3/80	2 x 19 + 2 x 2 = 42	858 lx	572 lx	286 lx	0,87
THLA	2/58	2 x 19 + 2 x 2 = 42	437 lx			0,86
THLA	3/58	2 x 19 + 2 x 2 = 42	628 lx	419 lx	209 lx	0,86
THLA/1500-2 LED 9600		2 x 19 + 2 x 2 = 42	586 lx			0,84
THLA/1500-3 LED 14400		2 x 19 + 2 x 2 = 42	879 lx	586 lx	293 lx	0,84





# Accessories for mounting rail installation



- ① SDT basic unwired mounting rail
- ② SDT-AP mounting rail connector
- ③ Luminaire hanger SDLAD
- ④ Suspension set SDT -WA or SDTT
- ⑤ Suspension set SDTTK for SDTT resp. chain suspension KK

## Accessories

	Type	Colour	Material	Details	Item number		
<i>Design</i>							
Section cover	SDBAV 1500	vw	St	l=7x219=1533mm for SDT Basic	1884 5580 101	1	0,85
<i>Mounting</i>							
Chain suspension	KK	me	St	Chain l=30m, for SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1	4,60
	SDT -AP	me	St	for SDT	1890 0022 100	1	0,93
	SDT -WA	me	St	for SDT Basic	6820 9300 120	1	0,25
	SDTTK	me	Mix	0°-40° for SDTT	1890 0056 100	1	0,30
<i>Structure</i>							
Luminaires fixing	SDLAD	me	St.galv.	for SDT Basic, KE-Y > 0mm und 2x for THLA+SDTT	1890 0068 100	1	0,07
Mounting rail	SDT Basic 1500/II	vw	St.galv.	l=3070mm 2.6kg for surface-mounted luminaires	1825 2580 150	1	2,60
	SDT Basic 1500/III	vw	St.galv.	l=4605mm 3.9kg for surface-mounted luminaires	1825 3580 150	1	3,90
Mounting rail spacer	SDTT T2-120	me	St.galv.	dist.=120mm for THLA 2x...	1890 0057 100	1	0,30
	SDTT T3-160	me	St	dist.=160mm for THLA 3x..., 1500-3	1890 0055 100	1	0,35







# Luminaires for special applications

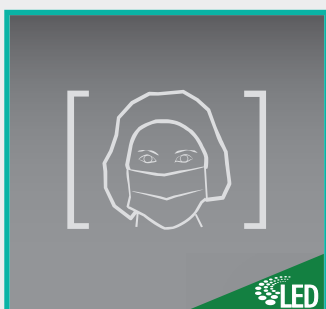
## ►515

► Human Centric Lighting



## ►519

► Clean rooms



## ►523

► Beverage and food industry







# Luminaires for Human Centric Lighting



## Suspended luminaires

alvia

▶ 24

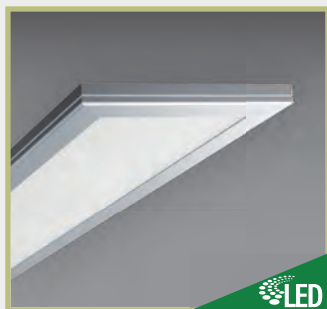
visula

▶ 32



visula

▶ 84



## Recessed luminaires

planara

▶ 178



## Quick-fit mounting system

SDT system LED ▶ 372





# Light for Living

## Importance of daylight for people

The life of most living beings on the planet Earth has been determined by the day-night cycle for millions of years. The biological clock is deeply rooted in our subconscious. Even if humans were already able to create artificial light with fire 300,000 years ago, it did not become possible turning night into day with the distribution of electricity at the end of the 19th century. This period of time is far too

short to be reflected in human genes. Witnessing these Facts, it becomes apparent how straining our way of living must be for us - mainly in enclosed rooms - with only little or even no daylight. It is assumed that at least 20% to 30% of the people working in industrial countries suffer from recurring sleep disorders. The body's inner clock gets out of step.





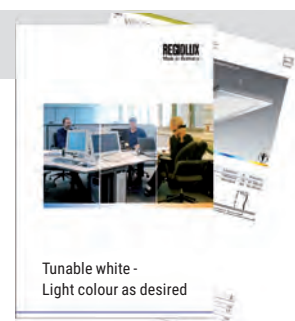
### Further information

in theme catalogue  
„Human Centric Lighting“



### Further information

in theme catalogue  
„Tunable white -  
Light colour as desired“



Luminaires suitable for Human Centric Lighting are equipped with this symbol.

With today's technologies and knowledge it is possible to compensate for this handicap of static light in our surroundings. The lack of natural daylight can be compensated for by convergence of the artificial light to the course of daylight. Thus, the human biological clock will be synchronised again.

## Biological Clock

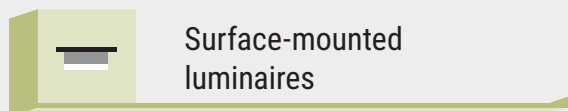
Life on Earth is also determined by the alternation of day and night. Many types of cells from species have developed some type of inner clock in the course of evolution. The brain synchronises this clock with the environment. Light is the pulse generator for this process.





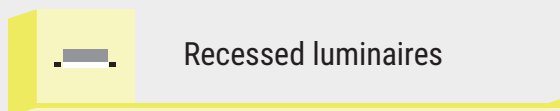


# Luminaires for clean rooms



Surface-mounted  
luminaires

protection IPA ▶ 88



Recessed luminaires

protection ▶ 186





# Application areas



Semiconductor technology



Biotechnology



Laboratories



Pharmaceutical industry



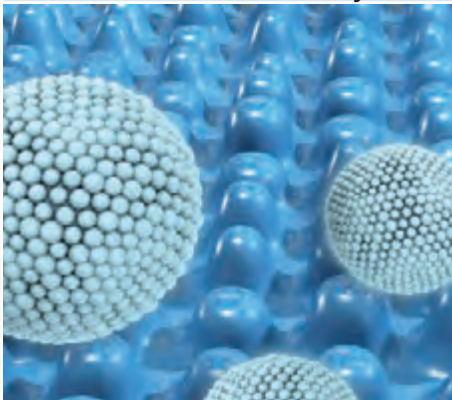
Cosmetics industry



Hospital & care



Food industry



Nanotechnology





Optical industry



Luminaires suitable for clean rooms (ISO1) are equipped with this symbol.

**Further information**

in theme catalogue  
"Certified light  
for clean rooms"



Certified light  
for clean rooms

# Clean room classes

These days, clean rooms are defined using so-called cleanroom classes. The individual classes describe the maximum permissible concentration of airborne particles or germs and/or CFU (colony forming units), which must not be exceeded inside a clean room. It is pos-

sible to verify these classes today using standardized measuring procedures. This means air quality is a factor which documents the effects of measures intended to achieve compliance with air quality requirements at manufacturing facilities. TBH GmbH, Straubenhardt

## DIN EN ISO 14644-1

Class	Maximum number of particles					
	$\geq 0,1 \mu\text{m}^3$	$\geq 0,2 \mu\text{m}^3$	$\geq 0,3 \mu\text{m}^3$	$\geq 0,5 \mu\text{m}^3$	$\geq 1,0 \mu\text{m}^3$	$\geq 5,0 \mu\text{m}^3$
ISO 1	10	2				
ISO 2	100	24	10	4		
ISO 3	1.000	237	102	35	8	
ISO 4	10.000	2.370	1.020	352	83	
ISO 5	100.000	23.700	10.200	3.520	832	29
ISO 6	1.000.000	237.000	102.000	35.200	8.320	293
ISO 7				352.000	83.200	2.930
ISO 8				3.520.000	832.000	29.300
ISO 9				35.2000.000	8.320.000	293.000

## VDI 2083

Class	Maximum number of particles					
	$\geq 0,1 \mu\text{m}^3$	$\geq 0,2 \mu\text{m}^3$	$\geq 0,3 \mu\text{m}^3$	$\geq 0,5 \mu\text{m}^3$	$\geq 1,0 \mu\text{m}^3$	$\geq 5,0 \mu\text{m}^3$
0	150	33	14			
1	1.500	330	140	45		
2	15.000	3.300	1.400	450		
3		33.000	14.000	4.500		
4				45.000	10.000	300
5				450.000	100.000	3.000
6				4.500.000	1.000.000	30.000

## EU GMP-Guidelines

Class	Maximum number of particles			
	at rest		in operation	
	$\geq 0,5 \mu\text{m}^3$	$\geq 5,0 \mu\text{m}^3$	$\geq 0,5 \mu\text{m}^3$	$\geq 5,0 \mu\text{m}^3$
A	3.520	20	3.520	20
B	3.520	29	352.000	2.900
C	352.000	2.900	3.520.000	29.000
D	3.520.000	29.000	not determined	not determined









# Luminaires for beverage and food industry

## Surface-mounted luminaires

## Recessed luminaires

protection ▶ 88



peanut ▶ 96



planara ▶ 178



protection ▶ 186



## Quick-fit mounting system

## High bay reflector and field luminaires

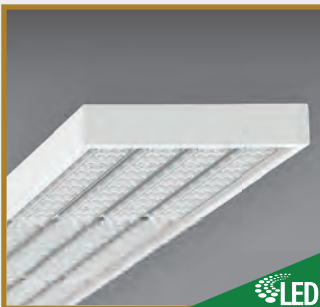
SDT-System LED ▶ 326



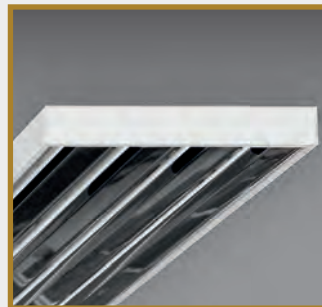
SDT-System T5/T8 ▶ 398



worker ▶ 442



hara ▶ 452



## Damp-proof luminaires

PU ▶ 472



PA ▶ 476



PC ▶ 478





# Foodstuffs

- a delicate matter







Luminaires which have a certificate of suitability according to DIN 10500 are equipped with this symbol.

# in production and trade



Food is a basic necessity of life. It is therefore not surprising that special requirements are in place when it comes to the production of foodstuffs of any kind. These requirements are meant to ensure that we can purchase foodstuffs and beverages of quite safe quality. When considering the risks, the entire production environment is therefore taken into account.

This is why as part of „Good Manufacturing Practices“ (GMP), which forms the basis for risk assessments in the production of medicinal products, foodstuffs and beverages, the lighting system must of course also be taken into consideration. In many cases, these risk assessments are performed in accordance with the „Hazard Analysis Critical Control Point“ (HACCP) procedure. In accordance with this procedure, the luminaires manufactured by us were also examined and assessed in regard to the food hygiene requirements of DIN 10500. Therefore on less challenge on the way to meet the high quality requirements.

Regiolux offers suitable lighting solutions for professional applications.

## Further information

in theme catalogue  
„Light solutions -  
for beverage and food industry“







lichtstudio

# Light-Control

DALI signal

▶538



Wireless signal

▶554



Switch signal

▶556



- Light-Control examples 529
- Light-Control for increasing energy efficiency 562
- Light-Control application manuals  
<http://www.regiolux.de/en/service/application-manuals/>







## TGZ Würzburg

Developer: Technologie- und Gründerzentrum Würzburg GmbH  
Architect: Kister-Scheithauer-Gross-Architekten und Stadtplaner GmbH, Köln  
Consultant: Ingenieurgemeinschaft TEN GmbH, Aachen  
Construction: Fa. EAB Elektroanlagenbau GmbH, Rhein/Main

## Used components



The design of the interior meshes with the materials on the outside. The bright offices are flooded with light through floor-to-ceiling windows. Along the outer walls, the offices have an exposed concrete surface and ceiling. Acoustic screens are attached to the ceiling to create a pleasant, sound-insulated working atmosphere. The lighting concept relies on the alvia suspended luminaire and the light quality of Human Centric Lighting.

**Contact:**  
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energieoptimierung@regiolux.de



## Further examples

in application manual  
„TUNABLE WHITE“







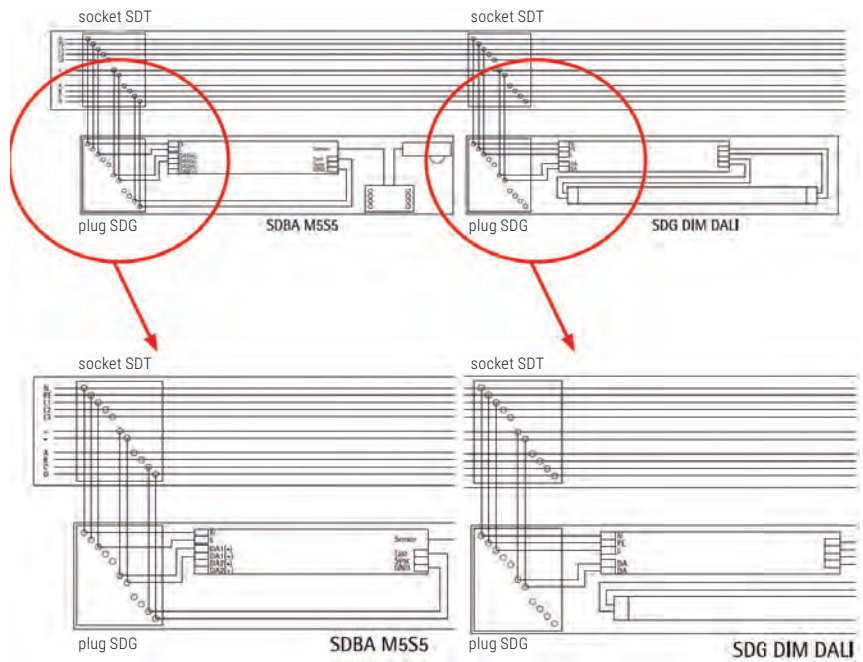
## Central warehouse of Public utilities Würzburg

Developer: Stadtwerke Würzburg AG  
Consultant: Herr Gerhardt, Würzburger Versorgungs- und Verkehrs GmbH  
Construction: Elektro Müller, Eisingen

### Used components



### Wiring example



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### Further examples

in application manual  
„MASTER LUMINAIRES M5S5“







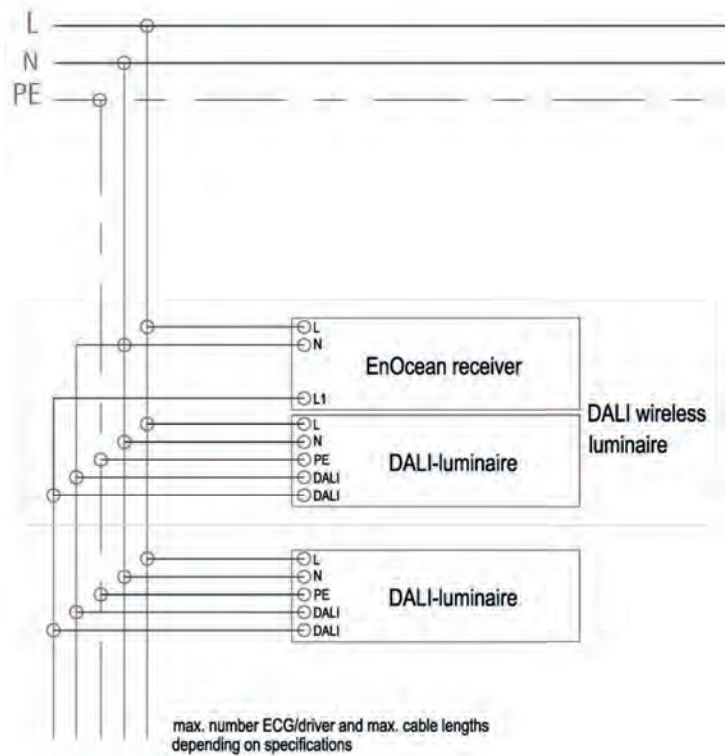
## Town hall Haßfurt

Developer: Gemeinde Haßfurt  
Consultant: Claus Raab + E-Plan GmbH, Hainert  
Construction: Elektro Krapf, Haßfurt

## Used components



## Wiring example



## Further examples

in application manual  
„TOUCH DIM - CORRIDOR  
FUNCTION - WIRELESS“



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125

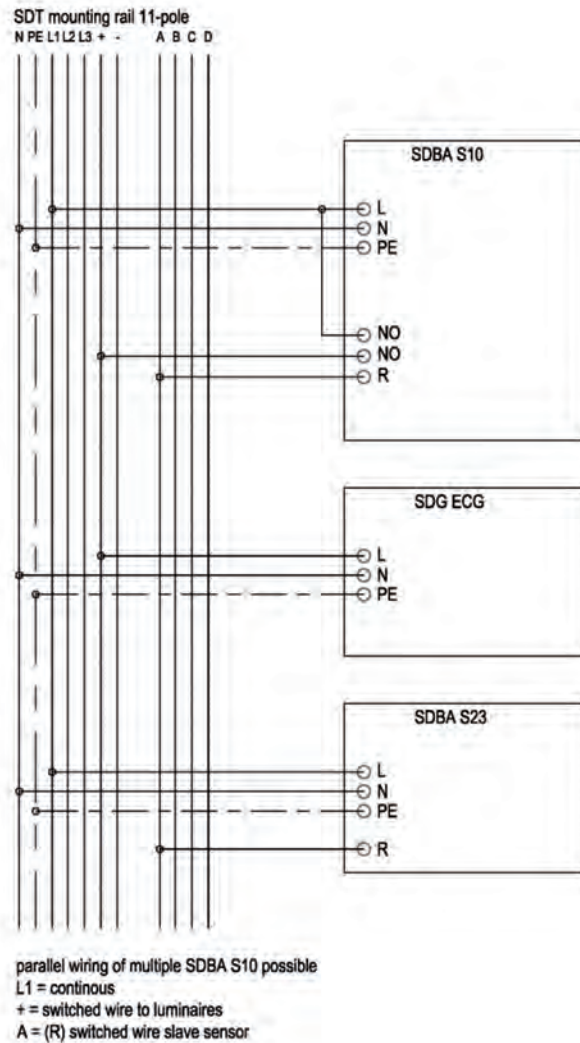
## Seaport Kiel

Developer: Seehafen Kiel GmbH & Co. KG, Kiel  
 Architect: Architekturbüro Ladwig, Bordesholm  
 Consultant: Elektro Schüler Installation GmbH, Bordesholm  
 Construction: Elektro Schüler Installation GmbH, Bordesholm

## Used components



## Wiring example



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 energieoptimierung@regiolux.de

Further examples

in application manual  
 „INDUSTRIAL AND WARE-  
 HOUSE HALLS“

Application Manual  
 INDUSTRIAL AND  
 WAREHOUSE HALLS  
 REGIOLUX



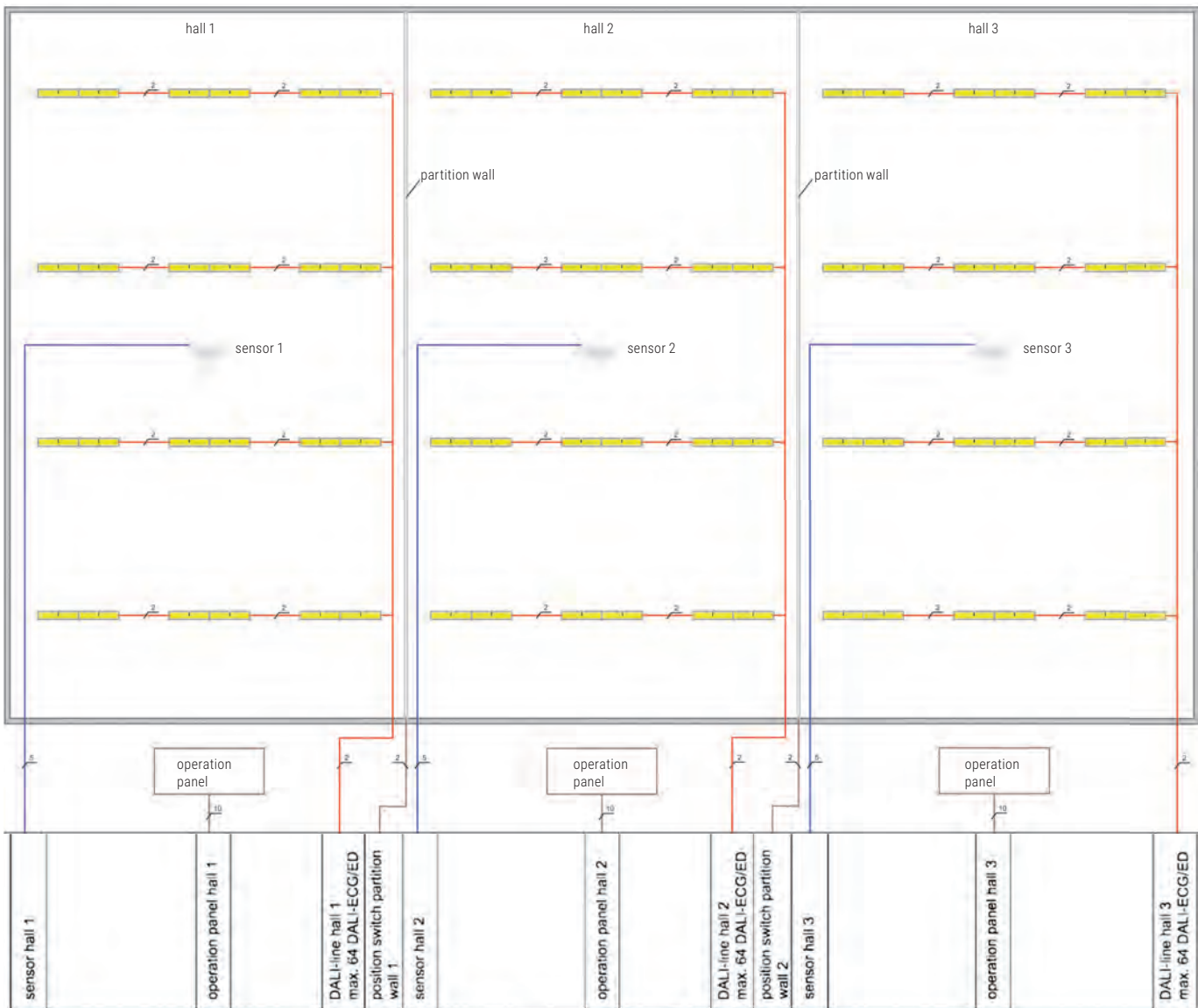




## Frankenhalle Sennfeld

Developer: Gemeinde Sennfeld  
 Consultant: Peter Gröger, Regiolux, Königsberg  
 Construction: Elektro Volker Stoike, Sennfeld

## Wiring example



Regiolux sports hall control

### Further examples

in application manual  
 „SPORTS HALLS“



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 energieoptimierung@regiolux.de





## Main component



### LC-OM DALI PRO CONT-4RTC

#### DALI control unit

Control device for up to 256 DALI electronic units; up to 50 buttons / sensor couplers can be integrated; integrated DALI supply; 4 freely programmable switch-over relays; load contact: 4 x 5 A; daylight linking and/or presence-dependent or manual control; up to 4 x 16 groups

can be controlled; 4 DALI lines; USB PC connection: Integrated real-time clock for the configuration of any daily routine. Push button couplers and sensors are also required for the operation of the control. A software tool is required for parameterisation and commissioning.

Type	LxBxH/DxH	Item number		
LC-OM DALI PRO CONT-4RTC	90 x 160 x 62	8450 1030 100	1	0,04

## Accessories



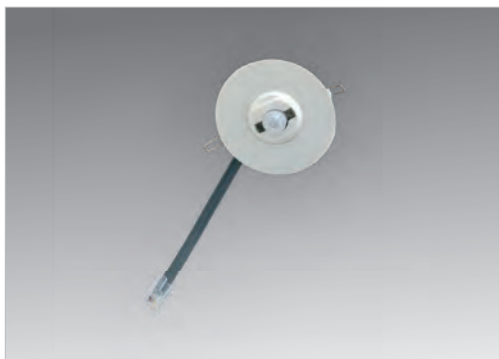
### LC-OM DALI PRO PB COUPLER

#### DALI push button coupler

The DALI pushbutton coupler is a binary input device for insertion in a flush mounted box. The device is powered via the connected DALI line. The device has 4 input channels for potential-free contacts. It can be connected to switches or pushbuttons. The required voltage is supplied

by the DALI pushbutton coupler (no additional voltage source needed). Initiated by the connected pushbutton or switch, the DALI pushbutton coupler sends telegrams to a central DALI controller via the DALI line.

Type	LxBxH/DxH	Item number		
LC-OM DALI PRO PB COUPLER	42 x 42 x 20	8450 1029 100	1	0,04

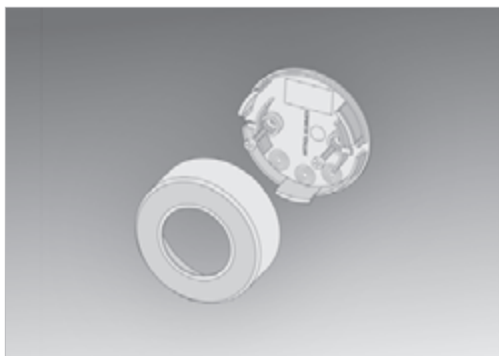


### LC-OM LS/PD MULTI 3 CI

#### Light/presence sensor for ceiling recessed installation or surface mounting

Light sensor with presence detection for ceiling recessing. Suitable for ceiling surface-mounting with LC-OM Sensor KIT. Mounting height 2-4 m. Detection cone 80°.

Type	LxBxH/DxH	Item number		
LC-OM LS/PD MULTI 3 CI	48 x 16 x 23,5	8450 1018 100	1	0,09



### LC-OM Sensor KIT

#### Ceiling surface-mounting adapter

Adapter for surface-mounting of LC-OM LS/PD MULTI 3 CI light sensor.

Type	LxBxH/DxH	Item number		
LC-OM Sensor KIT	80 x 25	8450 1019 100	1	0,10



## Accessories



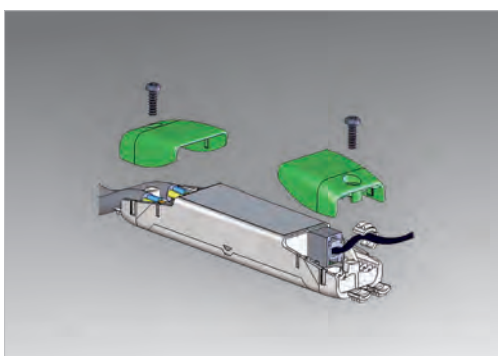
### LC-OM DALI HF LS LI SENSOR COUPLER

#### SENSOR COUPLER

Control unit for integration of the sensor HF LS LI in an OSRAM DALI systems. Enables DALI connection for light sensor and motion detector HF LS LI. For luminaire Installation ceiling installation possible with additional mounting

accessories (ECO CI KIT, not included in the scope of delivery) Operating voltage 230V 50Hz. DALI connection 2-pole via screwless plug-in terminal. Status LED and select push button for test and reset to factory settings.

Type	LxBxH/DxH	Item number		
LC-OM DALI HF LS LI SENSOR COUPLER	118 x 30	8450 1051 100	1	0,05



### LC-OM ECO CI KIT

#### Mounting accessories for control unit

Terminal covers and strain relief for installation of control devices outside the luminaire. Suitable for: LC-OM DALIeco, LC-OM ... SENSOR COUPLER

Type	LxBxH/DxH	Item number		
LC-OM ECO CI KIT	140 x 33 x 23	8450 1013 100	1	0,03



### LC-OM DALI LS/PD LI

#### Light/presence sensor for installation in luminaire

Light and presence sensor with adjustable presence detection range for mounting in the luminaire and/or ceiling for the connection to the DALIeco Control control unit; integrated infrared remote control receiver; integrated button for completely automatic start-up and deactivation of the infrared receiver; light sensor /

presence detector can be individually activated / deactivated using remote control; 2-colour function display using LED; presence detection range can be adjusted between 40° - 90° using integrated shutter; direct connection on DALI; mounting height 2...5 m.

Type	LxBxH/DxH	Item number		
LC-OM DALI LS/PD LI	48 x 15 x 17	8450 1044 100	1	0,04



### LC-OM Sensor KIT 2

#### Ceiling surface-mounting adapter

Adapter for surface mounting of LC-OM DALIeco LS/PD LI and LC-OM DALI LS/PD LI light sensor.

Type	LxBxH/DxH	Item number		
LC-OM Sensor KIT 2	110 x 78 x 20	8450 1043 100	1	0,20



### LC-OM DALIeco HF LS LI

#### HF Light/presence sensor

Light sensor /presence detector for luminaire installation light sensor and presence detector with adjustable presence detection range for luminaire and/or ceiling installation for connection to the DALIeco Control control unit; light sensor and presence detector can be activated/deactivated individually via remote control; V(λ)-corrected light sensor ele-

ment; presence detection using active radar sensor element; function display with two-colour LED; movement detection range is adjustable; mounting height: 2...13 m working range of light sensor: 20...800 lx (measured at sensor); integrated Infrared remote control receiver; connection via 4p4c socket (RJ10) with reverse polarity protection.

Type	LxBxH/DxH	Item number		
LC-OM DALIeco HF LS LI	56 x 28 x 21	8450 1049 100	1	0,30



## Accessories



## LC-OM DALI PRO SENSOR COUPLER

## Sensor Coupler

The DALI sensor coupler is an input device for the luminaire installation. The coupler is designed for connecting a light and motion sensor with a higher level DALI controller (e.g. LC-OM DALI PRO CONT-4). The device has 2 input channels for light and movement. The combina-

tion sensors in the OSRAM LS/PD MULTI3 range can be connected. The device is powered using the connected DALI line. For luminaire installation, ceiling installation possible with additional mounting accessories (ECO CI KIT, not included in the scope of delivery).

Type	LxBxH/DxH	Item number		
LC-OM DALI PRO SENSOR COUPLER	118 x 30 x 21	8450 1028 100	1	0,06



## LC-OM G-TOUCH 6T

## Glass touch screen, 6 buttons

Glass touch screen; smooth real glass surface, particularly flat design; all luminaires of the system can be dimmed and/or switched; 6 button functions.

Type	LxBxH/DxH	Item number		
LC-OM G-TOUCH 6T	80 x 80 x 11	8450 1036 100	1	0,14

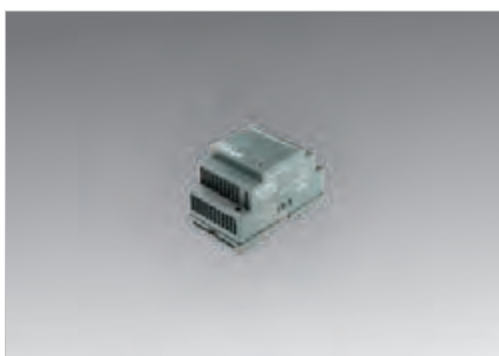


## LC-OM E-BUS DALI GATEWAY

## E:BUS DALI GATEWAY

Gateway for the communication of e:bus input devices / controls with DALI PRO CONT-4 controller; for DIN rail mounting (3 TE); complies with EMC requirements; power supply using LC-OM PS30/24.

Type	LxBxH/DxH	Item number		
LC-OM E-BUS DALI GATEWAY	90 x 54 x 63	8450 1033 100	1	0,18



## LC-OM PS30/24

## E:BUS power supply for distributor installation

The power supply is designed for operation with single phase alternating current with an input voltage of 85-264 V AC. The output voltage is 24 V / 1.3 A DC. The compact switch mode power supply is suitable for installation on DIN

rails (3 units). It provides protection against voltage fluctuations, power failure, overload and other safety risks. Complies with EMC requirements.

Type	LxBxH/DxH	Item number		
LC-OM PS30/24	90 x 54 x 58	8450 1035 100	1	0,18



## LC-OM DALI REPEATER SO

## Amplifier for distributor installation

Addressable signal amplifier for DALI control devices. Occupies one DALI address and controls up to 64 units DALI together as one group. Extends the permissible length of control wire by 300 m. Operating voltage 230V 50Hz. Housing for installation in standard distribution boxes.

Type	LxBxH/DxH	Item number		
LC-OM DALI REPEATER SO	96 x 72 x 62,2	8450 1007 100	1	0,18

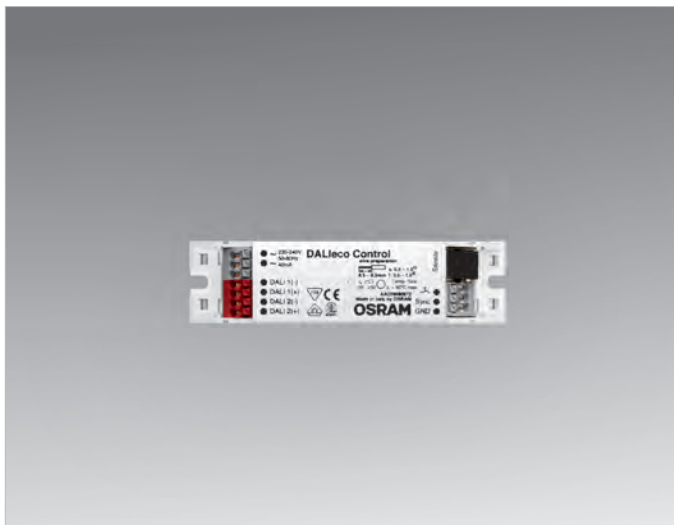








## Main component



### LC-OM DALIeco

#### Light/presence control unit for cavity / luminaire installation

2-channel control unit for daylight and presence-dependent control of up to 32 DALI units, connection of up to 4 light and presence sensors; pre-defined function modes for simplified commissioning; individual adjustment of the function parameters using IR remote control; automatic and manual specification of the setpoint regula-

tion value; 100 h burn-in function for low-pressure fluorescent lamps; operation using standard buttons and IR remote control. Operating voltage 230V 50Hz. Housing is intended for recessed installation in cavities such as suspended ceilings or possibly also in luminaire housings.

Type	LxBxH/DxH	Item number		
LC-OM DALIeco	118 x 30 x 21	8450 1039 100	1	0,05

## Accessories



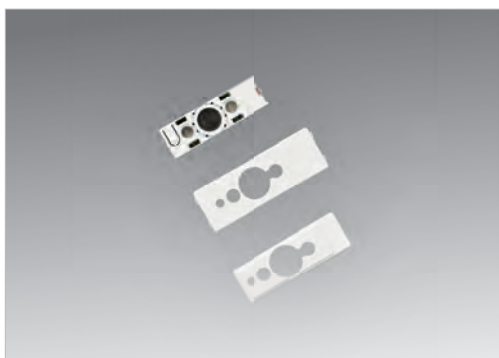
### LC-OM DALI PRO PB COUPLER

#### DALI push button coupler

The DALI pushbutton coupler is a binary input device for insertion in a flush mounted box. The device is powered via the connected DALI line. The device has 4 input channels for potential-free contacts. It can be connected to switches or pushbuttons. The required voltage is supplied

by the DALI pushbutton coupler (no additional voltage source needed). Initiated by the connected pushbutton or switch, the DALI pushbutton coupler sends telegrams to a central DALI controller via the DALI line.

Type	LxBxH/DxH	Item number		
LC-OM DALI PRO PB COUPLER	42 x 42 x 20	8450 1029 100	1	0,04



### LC-OM DALIeco LS/PD LI

#### Light / presence sensor

Light/presence sensor for luminaire installation light and presence sensor with adjustable presence detection range for luminaire and/or ceiling installation for connection to the DALIeco Control control unit; light and presence sensor via remote control can be activated/deactivated individually; V(λ)-corrected light sensor element; presence

detection using active radar sensor element; function display with two-colour LED; movement detection range is adjustable; mounting height: 2...13 m working range of light sensor: 20...800 lx (measured at sensor); integrated infrared remote control receiver; connection via 4p4c socket (RJ10) with reverse polarity protection.

Type	LxBxH/DxH	Item number		
LC-OM DALIeco LS/PD LI	48 x 15 x 17	8450 1040 100	1	0,01



### LC-OM DALI LS/PD LI

#### Light/presence sensor for installation in luminaire

Light and presence sensor with adjustable presence detection range for mounting in the luminaire and/or ceiling for the connection to the DALIeco Control control unit; integrated infrared remote control receiver; integrated button for completely automatic start-up and deactivation of the infrared receiver; light sensor /

presence detector can be individually activated / deactivated using remote control; 2-colour function display using LED; presence detection range can be adjusted between 40° - 90° using integrated shutter; direct connection on DALI; mounting height 2...5 m.

Type	LxBxH/DxH	Item number		
LC-OM DALI LS/PD LI	48 x 15 x 17	8450 1044 100	1	0,04



## Accessories



### LC-OM Sensor KIT 2

#### Ceiling surface-mounting adapter

Adapter for surface mounting of LC-OM DALIeco LS/PD LI and LC-OM DALI LS/PD LI light sensor.

Type	LxBxH/DxH	Item number		
LC-OM Sensor KIT 2	110 x 78 x 20	8450 1043 100	1	0,20



### LC-OM DALIeco HF LS LI

#### HF Light/presence sensor

Light sensor /presence detector for luminaire installation light sensor and presence detector with adjustable presence detection range for luminaire and/or ceiling installation for connection to the DALIeco Control control unit; light sensor and presence detector can be activated/deactivated individually via remote control; V(λ)-corrected light sensor ele-

ment; presence detection using active radar sensor element; function display with two-colour LED; movement detection range is adjustable; mounting height: 2...13 m working range of light sensor: 20...800 lx (measured at sensor); integrated Infrared remote control receiver; connection via 4p4c socket (RJ10) with reverse polarity protection.

Type	LxBxH/DxH	Item number		
LC-OM DALIeco HF LS LI	56 x 28 x 21	8450 1049 100	1	0,30



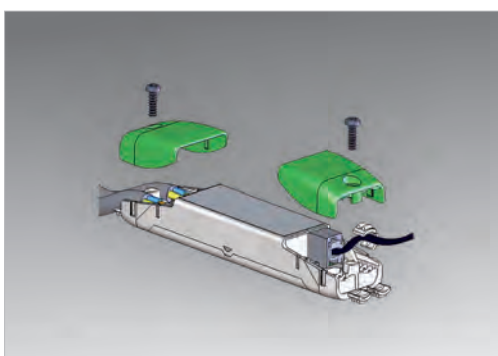
### LC-OM DALI HF LS LI SENSOR COUPLER

#### SENSOR COUPLER

Control unit for integration of the sensor HF LS LI in an OSRAM DALI systems. Enables DALI connection for light sensor and motion detector HF LS LI. For luminaire Installation ceiling installation possible with additional mounting acces-

sories (ECO CI KIT, not included in the scope of delivery) DALI connection 2-pole via screwless plug-in terminal. Status LED and select push button for test and reset to factory settings.

Type	LxBxH/DxH	Item number		
LC-OM DALI HF LS LI SENSOR COUPLER	118 x 30	8450 1051 100	1	0,05

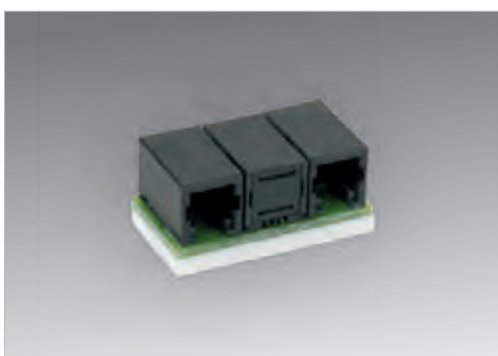


### LC-OM ECO CI KIT

#### Mounting accessories for control unit

Terminal covers and strain relief for installation of control devices outside the luminaire. Suitable for: LC-OM DALIeco, LC-OM ... SENSOR COUPLER;

Type	LxBxH/DxH	Item number		
LC-OM ECO CI KIT	140 x 33 x 23	8450 1013 100	1	0,03



### LC-OM Y-Verzweiger

#### Branching element

Y splitter with modular plug connector system (3x modular socket RJ10). Fastening possible with adhesive pad. Includes 2 connection cables, 2.1 m long, RJ10 connector on both sides.

Type	LxBxH/DxH	Item number		
LC-OM Y-Verzweiger	35 x 16 x 18	8450 1020 100	1	0,07



## Accessories



### LC-OM Y-Verbinder RJ10/Schraubklemmen

#### Branching element with screw terminal

Y splitter with modular plug connector system (2x modular socket RJ10) and screw terminals (2 x 4-pole). Attachment possible with adhesive pad. Includes 2 connection cables, 2.1 m long, RJ10 connector on both sides.

Type	LxBxH/DxH	Item number		
LC-OM Y-Verbinder RJ10/Schraubklemmen	40 x 20 x 16	8450 1021 100	1	0,04



### LC-OM MASTER REMOTE PC KIT

#### Remote control for commissioning the DALIeco (M5S5) light control system

Infrared remote control for controlling LC-OM DALIeco; individual buttons for function mode selection, setting the run-on and standby times, standby level, setting the offset between channels, channel value setting, automatic/manual setting of the control setpoint, centralised or sensor-based activation and/or deactivation of

light measurement, centralised or sensor-based activation and/or deactivation of presence detection, activation of 100 hours burn-in function; integrated LED for displaying the programming mode and signal transmission; includes USB cable and software.

Type	LxBxH/DxH	Item number		
LC-OM MASTER REMOTE PC KIT	230 x 45 x 13	8450 1041 200	1	0,11



### LC-OM USER REMOTE

#### Remote control for the operation of the DALIeco (M5S5) light control system

Infrared remote control for the control of LC-OM DALIeco; retrieval and storage of 4 light scenes; temporary deactivation of presence detection (holiday function); reactivation of the automatic light control function after manual override

using resume function; dimming and switching of two light groups, central switching of both groups; adaptable IR coding for the independent operation of up to 15 systems.

Type	LxBxH/DxH	Item number		
LC-OM USER REMOTE	230 x 33 x 10	8450 1042 100	1	0,11



### LC-OM DALI REPEATER SO

#### Amplifier for distributor installation

Addressable signal amplifier for DALI control devices. Occupies one DALI address and controls up to 64 units DALI together as one group. Extends the permissible length of control wire by 300 m. Operating voltage 230V 50Hz. Housing for installation in standard distribution boxes.

Type	LxBxH/DxH	Item number		
LC-OM DALI REPEATER SO	96 x 72 x 62,2	8450 1007 100	1	0,18



### LC-OM DALI PCU

#### DALI button control unit

For switching and dimming DALI luminaires; installation in 60 mm deep switch box; max. 25 DALI devices can be connected; up to 4 DALI PCU can be operated in parallel; min. brightness and behaviour after mains is re-established can be set; dimensions (L/W/H) 45x45x22 mm

Type	LxBxH/DxH	Item number		
LC-OM DALI PCU	48 x 48 x 22	8450 1029 200	1	0,04





## Main component



### LC-RX TW-DALI-Potentiometer

#### TW-DALI potentiometer DT8

For manual dimming and operating of DALI luminaires and for adjusting the colour temperature for tunable white DT8 luminaires; incl. integrated DALI power supply for max. 26 DALI devices DT8, operating voltage 230 V 50 Hz  
Integrated/surface-mounted device  
incl. alpine white cover

Type	LxBxH/DxH	Item number		
LC-RX TW-DALI-Potentiometer	81 x 81 x 56	8450 6009 202	1	0,21





## Main component



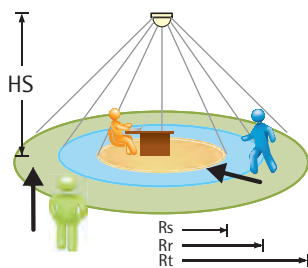
### LC-BEG PD4-M-DALI-AP

Light/presence sensor for ceiling surface mounting

Group presence detector, with DALI/DSI interface; integrated light sensor for automatic, constant light control; control of up to 50 DALI/DSI units as group; manual adjustments and using remote control; any number of slave devices can be connected for low-cost expansion of the detec-

tion range; reception area in sitting position  $\varnothing$  6.4 m, lateral  $\varnothing$  24.0 m, frontal  $\varnothing$  8.0 m; 1 channel (light control); DALI/DSI master max. 50 DALI/DSI units; time setting 1-30 min; brightness value 10-2000 lx; the mounting height shall not exceed 5 m for constant light control.

Type	LxBxH/DxH	Item number		
LC-BEG PD4-M-DALI-AP	98 x 63	8450 6004 100	1	0,14



HS	Rs	Rr	Rt
m	m	m	m
2,00	2,60	3,20	8,50
2,50	3,20	4,00	12,00
3,00	3,80	4,80	14,50
3,50	4,50	5,50	17,00
4,00	-	6,80	19,50
4,50	-	7,20	22,00
5,00	-	8,00	24,00
10,00	-	8,00	24,00



## Accessories



### LC-BEG PD4-S-AP

#### Slave sensor presence for ceiling surface mounting

Presence sensor, slave sensor with circular and long-range monitoring area, surface mounting, for master/slave combination. Only one master for light switching is necessary; motion detection in all areas of the room possible with slave sensors; switching pulse to the master in the

case of detected movement; recognition of the motion independent of ambient lighting; sensor and power part in the same housing; range in sitting position  $\varnothing$  6.4 m, lateral  $\varnothing$  24.0 m, frontal  $\varnothing$  8.0 m.

Type	LxBxH/DxH	Item number		
LC-BEG PD4-S-AP	101 x 76	8450 6005 100	1	0,20



### LC-BEG IR-RC

#### Remote control and programming adapter

IR-RC adapter for operation of all remote control LC-BEG devices, for connection to the audio output of smartphones, remote control app Luxomat Remote Control required, for iOS and Android available in the Appstore, incl. micro USB charging cable, max. range 8 m.

Type	LxBxH/DxH	Item number		
LC-BEG IR-RC	80 x 60 x 8	8450 6021 100	1	0,04



### LC-BEG IR-PD-DALI-E

#### Remote control and programming tool

Infrared remote control for the control of LC-BEG-DALI sensors and the linked luminaire groups. Installation aid and programming tool. Wall mount included in scope of delivery.

Type	LxBxH/DxH	Item number		
LC-BEG IR-PD-DALI-E	80 x 60 x 8	8450 6028 100	1	0,03



## Main component



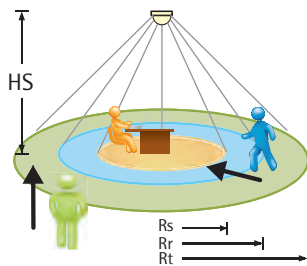
### LC-BEG PD4-M-DALI-DE

#### Light/presence sensor for ceiling recessing

Group presence detector, with DALI/DSI interface; integrated light sensor for automatic, constant light control; control of up to 50 DALI/DSI units as group; manual adjustments and using remote control; reception area in sitting position  $\varnothing$  6.4 m, lateral  $\varnothing$

24.0 m, frontal  $\varnothing$  8.0 m; 1 channel (light control); DALI/DSI master max. 50 DALI/DSI units; time setting 1-30 min; brightness value 10-2000 lx; the mounting height shall not exceed 5 m.

Type	LxBxH/DxH	Item number		
LC-BEG PD4-M-DALI-DE	97 x 103	8450 6010 100	1	0,14



HS	Rs	Rr	Rt
m	m	m	m
2,00	2,60	3,20	8,50
2,50	3,20	4,00	12,00
3,00	3,80	4,80	14,50
3,50	4,50	5,50	17,00
4,00	-	6,80	19,50
4,50	-	7,20	22,00
5,00	-	8,00	24,00
10,00	-	8,00	24,00



## Accessories



### LC-BEG IR-RC

#### Remote control and programming adapter

IR-RC adapter for operation of all remote control LC-BEG devices, for connection to the audio output of smartphones, remote control app Luxomat Remote Control required, for iOS and Android available in the Appstore, incl. micro USB charging cable, max. range 8 m.

Type	LxBxH/DxH	Item number		
LC-BEG IR-RC	80 x 60 x 8	8450 6021 100	1	0,04



### LC-BEG PD4-S-DE

#### Presence slave sensor for ceiling recessing

Presence sensor, slave sensor with circular and long-range monitoring area, surface mounting, for master/slave combination. Only one master for light switching necessary; motion detection in all room segments possible with slave sensors; switching pulse to the master in

the case of detected movement; recognition of the motion independent of ambient brightness; sensor and power part in the same housing; range in sitting position Ø6.4 m, lateral Ø24.0 m, frontal Ø8.0 m.

Type	LxBxH/DxH	Item number		
LC-BEG PD4-S-DE	97 x 103	8450 6014 100	1	0,10



### LC-BEG IR-PD-DALI-E

#### Remote control and programming tool

Infrared remote control for the control of LC-BEG-DALI sensors and the linked luminaire groups. Installation aid and programming tool. Wall mount included in scope of delivery.

Type	LxBxH/DxH	Item number		
LC-BEG IR-PD-DALI-E	80 x 60 x 8	8450 6028 100	1	0,03





## Main component



### LC-BEG PD4-M-TRIO-2DALI-1C-AP

Light/presence sensor for ceiling surface mounting

Light sensor /presence detector for ceiling surface mounting Group presence detector, with DALI/DSI interface; 2 integrated light sensors for automatic constant light control; control of channel 1 + 2 each up to 25 DALI/DSI electronic dimming ballasts

and channel 3 3000 W,  $\cos\phi=1$  as a group; manual adjustments and using remote control; monitoring area in sitting position  $\varnothing$  6.4 m, lateral  $\varnothing$  24.0 m, frontal  $\varnothing$  8.0 m; time setting 1-60 min; brightness value 10-2000 lx; mounting height 2-3 m;

Type	LxBxH/DxH	Item number		
LC-BEG PD4-M-TRIO-2DALI-1C-AP	124 x 85	8450 6016 100	1	0,14



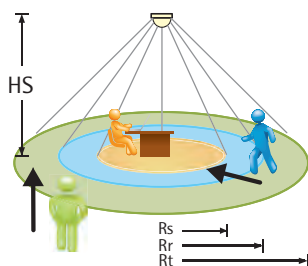
### LC-BEG PD4-M-TRIO-2DALI-1C-DE

Light/presence sensor for ceiling recessing

Light/presence sensor for ceiling recessed installation Group presence detector, with DALI/DSI interface; 2 integrated light sensors for automatic constant light control; control of channel 1 + 2 each up to 25 DALI/DSI Dim electronic ballasts

and channel 3 3000 W,  $\cos\phi=1$  as a group; manual adjustments and using remote control; monitoring area in sitting position  $\varnothing$  6.4 m, lateral  $\varnothing$  24.0 m, frontal  $\varnothing$  8.0 m; time setting 1-60 min; brightness value 10-2000 lx; mounting height 2-3 m;

Type	LxBxH/DxH	Item number		
LC-BEG PD4-M-TRIO-2DALI-1C-DE	117 x 100	8450 6018 100	1	0,48



HS	Rs	Rr	Rt
m	m	m	m
2,00	2,60	3,20	8,50
2,50	3,20	4,00	12,00



## Main component



### LC-BEG PD4-M-TRIO-3DALI-AP

#### Light/presence sensor for ceiling surface mounting

Light/presence sensor for ceiling surface mounting Group presence detector, with DALI/DSI interface; 2 integrated light sensors for automatic constant light control; control of channel 1 + 2 each up to 25 DALI/DSI units and channel 3 max. 3 units

as a group; manual adjustments and using remote control; monitoring area in sitting position Ø 6.4 m, lateral Ø 24.0 m, frontal Ø 8.0 m; time setting 1-60 min; brightness value 10-2000 lx; mounting height 2-3 m.

Type	LxBxH/DxH	Item number		
LC-BEG PD4-M-TRIO-3DALI-AP	124 x 85	8450 6019 100	1	0,14



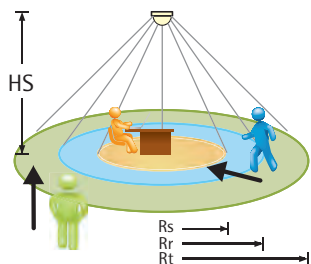
### LC-BEG PD4-M-TRIO-3DALI-DE

#### Light/presence sensor for ceiling recessing

Light sensor/presence detector for ceiling recessed installation Group presence detector, with DALI/DSI interface; 2 integrated light sensors for automatic constant light control; control of channel 1 + 2 each up to 25 DALI/DSI units and channel 3

max. 3 electronic units as a group; manual adjustments and using remote control; monitoring area in sitting position Ø 6.4 m, lateral Ø 24.0 m, frontal Ø 8.0 m; time setting 1-60 min; brightness value 10-2000 lx; mounting height 2-3 m;

Type	LxBxH/DxH	Item number		
LC-BEG PD4-M-TRIO-3DALI-DE	117 x 100	8450 6020 100	1	0,48



HS	Rs	Rr	Rt
m	m	m	m
2,00	2,60	3,20	8,50
2,50	3,20	4,00	12,00



## Accessories



## LC-BEG IR-RC

## Remote control and programming adapter

IR-RC adapter for operation of all remote control LC-BEG devices, for connection to the audio output of smartphones, remote control app Luxomat Remote Control required, for iOS and Android available in the Appstore, incl. micro USB charging cable, max. range 8 m.

Type	LxBxH/DxH	Item number		
LC-BEG IR-RC	80 x 60 x 8	8450 6021 100	1	0,04



## LC-BEG IR-PD4-TRIO-DALI

## Remote control and programming tool

Infrared remote control for the control of LC-BEG-DALI sensors and the linked luminaire groups. Installation aid and programming tool. Wall mount included in scope of delivery.

Type	LxBxH/DxH	Item number		
LC-BEG IR-PD4-TRIO-DALI	80 x 60 x 8	8450 6017 100	1	0,03









# Wireless signal EnOcean control devices



## Transmitter



### LC-PE EnOcean T2K

#### EnOcean wall transmitter, 2 channels

For individual mounting, rocker switch with neutral middle position, without printing, universally useable due to the compact design, battery-free and maintenance-free, pure white.



Type	LxBxH/DxH	Item number		
LC-PE EnOcean T2K	61 x 61 x 15	8450 7005 100	1	0,08



### LC-PE EnOcean T4K

#### EnOcean wall transmitter, 4 channel

For individual mounting, rocker switch with neutral middle position, without printing, universally useable due to the compact design, battery-free and maintenance-free, pure white.

Type	LxBxH/DxH	Item number		
LC-PE EnOcean T4K	61 x 61 x 15	8450 7006 100	1	0,06





## Transmitter



### LC-PE EnOcean MFB4K

#### EnOcean mini handheld transmitter, 4-channel

The mini hand-held transmitter is suitable for switching and dimming lighting. It can be switched without batteries and from any location. The small and ergonomic mini hand-held transmitter in a closed housing is designed as remote control and has 4 buttons. Colour of the housing: black; colour of the buttons: grey.

Type	LxBxH/DxH	Item number		
LC-PE EnOcean MFB4K	82 x 50 x 21	8450 7007 100	1	0,08



## Receiver



### SAE -M

#### Cable suspension

Suspension kit with integrated 1-channel EnOcean radio receiver, cuboid baldachin made of steel sheet, individual steel cable suspension with transparent connection cable 5x0.75 mm<sup>2</sup>, suitable for pendant luminaires with DALI units for retrofitting for button dim control with EnOcean radio transmitter; addition to existing Y cable suspension.

Type	Colour	LxBxH/DxH	Item number		
SAE -M	vw	274 x 45,6 x 36	9512 0257 230	1	0,50
	wa	274 x 45,6 x 36	9512 0257 235	1	0,50



# Switch signal Switching control devices

## Main component





### LC-AB LWS3

#### Light control device for distributor installation

Control device for daylight-dependent switching of max. 3 connected lighting circuits. 1 sensor can be connected per control device. Housing for installation in power circuit distributor (6 units). With one slide switch, the operating range can be switched between 10--1000 Lux and 200-20000 Lux. Another slide switch activates a lock that prevents

the lighting level switch from being switched on automatically. The activation takes place manually by means of a button (only possible if the switch-on value is undercut). It can be deactivated again using another button (applies for all three circuits together). Maximum current intensity per channel: 10 A.

Type	LxBxH/DxH	Item number		
LC-AB LWS3	105 x 75 x 85,5	8450 2040 100	1	0,38



## Accessories



### LC-AB LF/w/D

#### Light sensor for wall surface-mounting

Pivotable light sensor for wall mounting. The sensor only detects daylight. It must not be influenced by artificial light. The sensor should be located on the exterior of the building or in the immediate vicinity of a window. Operating range approx. 50-20000 lx; cable length max. 100 m.

Type	LxBxH/DxH	Item number		
LC-AB LF/w/D	61,5 x 27,5 x 86	8450 2041 100	1	0,09







# Switch signal Switching control devices

## Main component



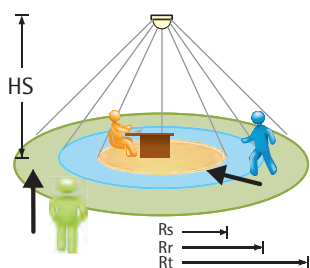
### LC-BEG PD4-M-1C-AP

#### Light/presence sensor for ceiling surface mounting

Presence detector, with circular and long-range monitoring area, 1 switching channel for switching light (potential-free); high-performance relay for switching high lamp outputs; any number of slave devices for low-cost extension of the monitoring area can be connected; settings manual

and via remote control; monitoring area in sitting position  $\varnothing$  6.4 m, lateral  $\varnothing$  24.0 m, frontal  $\varnothing$  8.0 m; 1 channel (light control); switching power 2300 W,  $\cos\phi=1$ ; 1150 VA;  $\cos\phi=0.5$  time setting 15 sec.-30 min. or pulse; brightness value 10-2000 lx.

Type	LxBxH/DxH	Item number		
LC-BEG PD4-M-1C-AP	98 x 65	8450 6001 100	1	0,16



HS	Rs	Rr	Rt
m	m	m	m
2,00	2,60	3,20	8,50
2,50	3,20	4,00	12,00
3,00	3,80	4,80	14,50
3,50	4,50	5,50	17,00
4,00	-	6,80	19,50
4,50	-	7,20	22,00
5,00	-	8,00	24,00
10,00	-	8,00	24,00



## Accessories



### LC-BEG PD4-S-AP

#### Slave sensor presence for ceiling surface mounting

Presence sensor, slave sensor with circular and long-range monitoring area, surface mounting, for master/slave combination. Only one master for light switching is necessary; motion detection in all areas of the room possible with slave sensors; switching pulse to the master in the

case of detected movement; recognition of the motion independent of ambient lighting; sensor and power part in the same housing; range in sitting position  $\varnothing$  6.4 m, lateral  $\varnothing$  24.0 m, frontal  $\varnothing$  8.0 m.

Type	LxBxH/DxH	Item number		
LC-BEG PD4-S-AP	101 x 76	8450 6005 100	1	0,20



### LC-BEG IR-PD-E

#### Remote control and programming tool

Infrared remote control for the control of LC-BEG-PD4 sensors and the linked luminaire groups. Installation aid and programming tool. Four predefined brightness values for the switch-on value of the lighting; selection completely or semi-automatic; predefined switch-on

times of the lighting: pulse, 15 s to 30 min.; predefined switch-on times for device control: pulse, 5 to 120 min.; saving of the current dimming value as switch-on and/or switch-off value; permanent anti-sabotage protection; wall mount included in scope of delivery.

Type	LxBxH/DxH	Item number		
LC-BEG IR-PD-E	80 x 60 x 8	8450 6027 100	1	0,04



### LC-BEG IR-RC

#### Remote control and programming adapter

IR-RC adapter for operation of all remote control LC-BEG devices, for connection to the audio output of smartphones, remote control app Luxomat Remote Control required, for iOS and Android available in the Appstore, incl. micro USB charging cable, max. range 8 m.

Type	LxBxH/DxH	Item number		
LC-BEG IR-RC	80 x 60 x 8	8450 6021 100	1	0,04



# Switch signal Switching control devices

## Main component



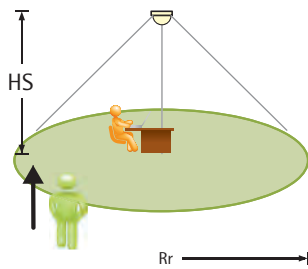
### LC-BEG PD4-M-1C-GH-AP

#### Light/presence sensor for ceiling surface mounting

Presence sensor, remote-controllable with oval and long-range monitoring area, specifically for high rise racking; automatic reading of the current light value; switching the lighting on and off and parameterisation of the presence sensor by remote control; high-performance relay, with

inrush current limiter; sensor and power part in the same housing; can also be switched using pushbutton; monitoring area  $\varnothing 44.00$  m; 1 channel (light control); switching power 2300 W,  $\cos\phi=1$ ; 1150 VA,  $\cos\phi=0.5$ ; time setting 15 sec.-30 min. or pulse; brightness value - 10-2000 lx.

Type	LxBxH/DxH	Item number		
LC-BEG PD4-M-1C-GH-AP	98 x 63	8450 6002 100	1	0,13



HS	Rr
m	m
5,00	18,50
6,00	18,50
7,00	18,50
8,00	22,00
9,00	22,00
10,00	22,00
14,00	22,00



## Accessories



### LC-BEG PD4-S-GH-AP

#### Presence slave sensor for ceiling surface mounting

Presence sensor, slave with oval and long-range reception area as surface mounting version, significant potential for energy saving, particularly in large rooms and for the monitoring of large areas; only one master necessary for light switching; movement detection in all room seg-

ments possible with slaves; switching pulse to the master in the case of detected movement; recognition of the movement independent of ambient brightness; no adjustment elements at the slave; sensor and power part in the same housing; reception area Ø44.0 m.

Type	LxBxH/DxH	Item number		
LC-BEG PD4-S-GH-AP	98 x 63	8450 6003 100	1	0,13



### LC-BEG IR-PD4-GH

#### Remote control and programming tool

Infrared remote control for controlling LC-BEG-PD4-M-1C-GH sensors; installation help and programming tool; seven predefined brightness values for the switch-on value of the lighting; day and night operation; selection of completely or semi-automatic operation; predefined switch-

on times of the lighting; pulse, 15 s – 30 min.; storing of the current dimming value as switch-on and/or switch-off value; determination of the switch-on threshold for reaching a calculated setpoint value; wall mount included in the scope of delivery.

Type	LxBxH/DxH	Item number		
LC-BEG IR-PD4-GH	80 x 60 x 8	8450 6006 100	1	0,04



### LC-BEG IR-RC

#### Remote control and programming adapter

IR-RC adapter for operation of all remote control LC-BEG devices, for connection to the audio output of smartphones, remote control app Luxomat Remote Control required, for iOS and Android available in the Appstore, incl. micro USB charging cable, max. range 8 m.

Type	LxBxH/DxH	Item number		
LC-BEG IR-RC	80 x 60 x 8	8450 6021 100	1	0,04





# Light-Control for increasing energy efficiency

Time based lighting systems meet the highest contemporary standards of light quality, ergonomics and safety, design considerations, and regarding energy terms. With modern lighting technology in conjunction with sophisticated electronic components, high-efficiency light arms, optimal measures for glare reduction and efficient light sources, lighting solutions can be realised that they correspond to all needs, generate much more light and consume less energy than old systems with conventional, sometimes completely outdated technology.

The optionally available technologies for better control and regulation of lighting systems provide even more potential for cost saving and efficiency. In installations where a sensible use of natural daylight is possible, up to 75% of energy saving can be achieved compared to existing systems. There are also savings regarding the use of sensor technology in presence detection, for example, in storage and distribution areas.

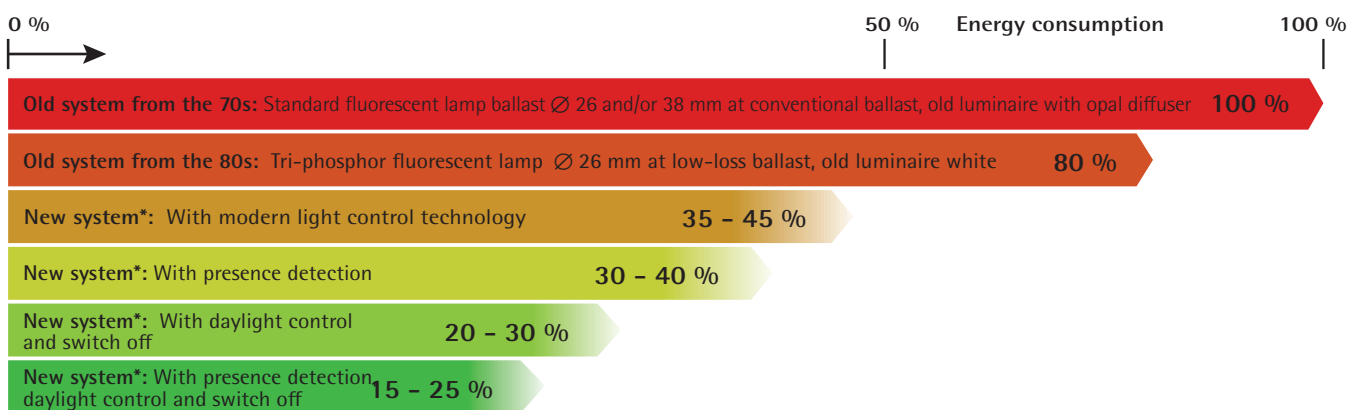


## Energy Optimisation - benefitting from saving potentials in interior lighting

When renovating the lighting system, one should start with a general check-up of its current condition. Only on the basis of this analysis, statements about possible savings are possible. The numbers listed in the chart are to be interpreted as a rough guide. In particular, the savings from daylight-dependent

systems can vary strongly, depending on various conditions (eg, geographic location, window size and position, direction, obstruction, use of time). We recommend to carry out an appropriate cost calculation prior to the renovation.

### Saving potentials indoor lighting



\* Deviation depends on applied technology

Fig. 1: Saving potential indoor lighting

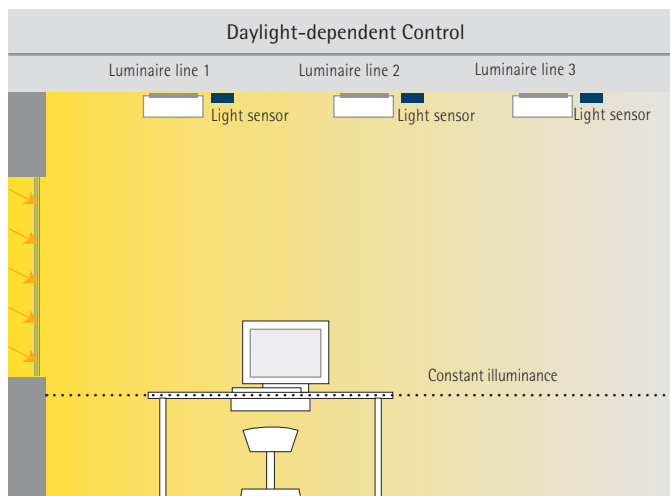
A modern lighting design with a suitable light control can reduce up to 75% of energy.

## Light-Control Application Manuals



## Save with daylight-dependent control of lighting systems

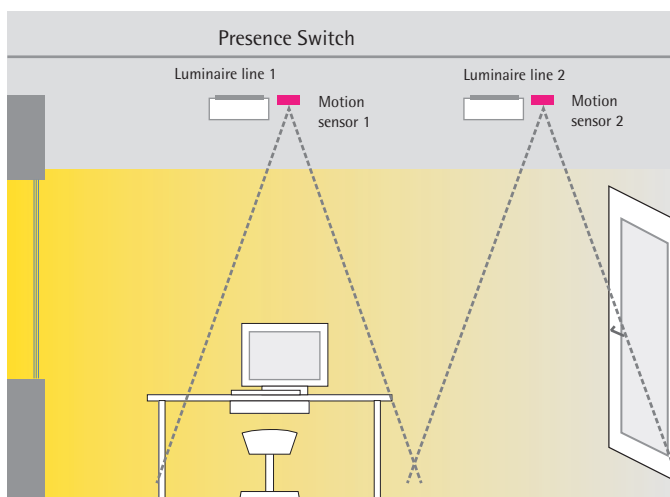
Luminaire installations that take account of entering daylight must not continuously generate maximum illumination output for achieving the necessary lighting level. Dimmable electronic ballasts and light sensors dim the artificial light at high ambient brightness. Depending on the daylight flooding the room, it may be useful to have multiple control loops.



**Fig. 2: Daylight-dependent control**  
The light sensors control the installed lighting rows depending on the amount of daylight. The aim is to provide a constant illumination intensity for a visual task.

## Presence control

With the help of presence detection, expenses can be reduced even further. Corresponding presence sensors ensure that the lighting is only activated when there are people in the room. Otherwise, the illumination is automatically switched off or lowered to a residual level with a dimmable lighting system. The latter is interesting, especially in rooms where a residual brightness is constantly desired, such as in hospital corridors.



**Fig. 3: Presence dependent switching**  
Two luminaire lines switched via motion sensors. Work and entrance areas are defined as default capture areas.

Even with typical standard applications, Regiolux luminaire systems achieve enduringly low operational and maintenance costs. By developing and implementing individual solutions for special applications, Regiolux also helps to increase efficiency even further. We offer a wide variety of solutions of modern control devices and sensors that meet current requirements for efficient illumination in a sustainable way. Please also see our preconfigured master luminaires M5S5 in the product sections recessed and mounted luminaires as well as quick mounting systems.

## Your contact person for energy-optimised lighting systems



Contact:  
T + 49 9525 89-222  
F + 49 9525 89-223  
energieoptimierung@regiolux.de







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# 1. The quality of light

Lighting planning today can choose from a wide variety of light sources and therefore instruments that enable lighting adapted to people's needs. The first approaches towards qualitative lighting planning were made as early as the nineteen fifties. The pioneer in the field of new lighting philosophy was Richard Kelly. His systematisation of light effects today still finds praise.

Richard Kelly managed to free himself from the requirement of uniform illumination, seen until then as a central criterion of lighting planning. He substituted the question of light quantity with the question of the quality of light.

He searched for criteria that differentiated between the perceptual priorities of the viewer. From this consideration a systematisation was created within which Kelly differentiated between three fundamental functions of lighting.

## Light for looking

### Light for looking

Light for seeing approximately corresponds to the usual quantitative expectation of light. General lighting is created that is sufficient for the perception of the defined viewing tasks. This might be the perception of objects or building structures, orientation in an environment or orientation while moving forwards. But in contrast to quantitative lighting planning, light for viewing is not the aim but rather the basis for extended lighting planning.

### Light for viewing

Light for viewing according to Kelly's theory extends beyond general lighting and accommodates the requirements of people in their surroundings. This type of lighting sets priorities for human perception: firstly objects are recognised that are illuminated in the room the brightest, and then the viewer completes this with perception of the darker objects. In contrast to uniform lighting, light for viewing structures the visual environment into bright and dark zones. It can be quickly and unequivocally differentiated and comprehended. The viewer's gaze can be directed onto single objects or zones in the room. This principle not only aids orientation in rooms, it can also be used for the presentation of goods and objects with an aesthetic appeal.

### Light for looking at

Light for viewing not only illuminates objects or communicates information, but is itself the object of perception. In this respect the light contributes to the aesthetic effect of the room and creates ambience and atmosphere. Light for viewing can be created by candlelight or a light object. The brilliance of the light itself can also become visible via the illumination of specific materials.

To be able to implement these three basic functions of lighting into lighting planning, the industry offers a wide range of lamps that equip various forms of luminaire housings. The design of luminaires does not only have an aesthetic function, but is also influenced by the light guiding optics that in their turn ensure precise light control and glare elimination. Thus equipped, the lighting planner can then work qualitatively with light.

General lighting, supplying **light for seeing**, can be implemented with direct, wide distribution luminaires for fluorescent or compact fluorescent lamps. These light sources create diffuse light.

Homogeneous light can also be achieved via indirect lighting. But because purely direct or purely indirect light cannot create optimal visual conditions, luminaires with direct-indirect distribution have proven to be highly suitable for general lighting.

## light for viewing

For improving general room impressions, illumination of vertical surfaces is recommended. This can be achieved with rectangular or circular luminaires, and with asymmetric reflectors and compact or linear fluorescent lamps.

For improving the general lighting of vertical surfaces, directed light can also be implemented that structures the rooms uniformly and therefore also provides light for viewing.

If **light for viewing** is ensured, a room impression can be emphasised with light for looking at. This in turn gives a significantly more sophisticated quality of light, and primarily improves rendering of the plasticity and surface structures of illuminated objects. Directed light enables differentiated concentration of light and opens the way for more flexibility with the arrangements of luminaires in the room. An interplay of light and shadow is created that determines the succession of perception.

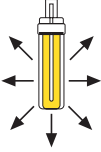
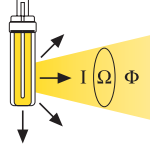
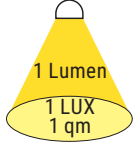
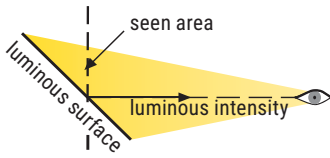
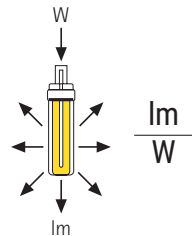
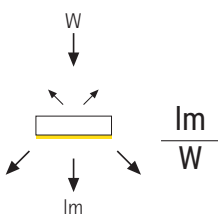
Room depth also becomes experienceable. Surface-mounted spots with reflector lamps are often used for such tasks. Recessed pan-and-tilt luminaires, usually equipped with high pressure discharge lamps and wide distribution reflectors, can also provide directed light.

In order to emphasise **light for viewing** it makes sense to keep the general lighting level low. Modelling effects can then be implemented with supplementary directed light. If general lighting is too high, the planner is forced to work with higher wattages for the adjustable light sources. Often the stray light from accentuated areas is sufficient for ambient lighting.

**Light for looking at** has greater demands on lamps and luminaires than the light for viewing tasks. This mostly means working with almost point-like light sources. As soon as the light from such lamps falls onto materials having glossy surfaces, light reflections are created that are perceived as being brilliant. When light sources themselves become objects, fibre optics, LED and also halogen pin-base lamps can be used. The luminance level of the lamps is experienced as radiant light. Light guidance and the lighting itself is no longer of primary significance.

Bibliography:  
History of Light and Lighting - Correspondence Course Lighting Application/ Vol. 2

# 2. Lighting technology basic concepts

Basic term	unit	symbol	definition	
1. Luminous flux	Lumen (lm)	$\Phi$	The total quantity of light emitted from the light source.	
2. Luminous intensity	Candela (cd)	$I = \frac{\Phi}{\Omega}$	The luminous intensity I evaluates the light radiated in a definite direction. It depends on the luminous flux $\Phi$ in this direction and on the radiated solid angle.	
3. Illuminance	Lux (lx)	$E = \frac{\Phi}{A}$	The illuminance E is the luminous flux $\Phi$ , on a defined surface A.	
4. Luminance	Candela per m <sup>2</sup> (cd/m <sup>2</sup> )	$L = \frac{\Phi}{A \cdot \cos \epsilon}$	The luminance is the luminous intensity per m <sup>2</sup> of visible surface. The luminance L of an illuminated surface is the measure for the luminosity perceived.	
5. Bulb light output	Lumen per Watt (lm/W)	$\eta = \frac{\Phi}{P}$	The bulb light output is the gross light flux of a bulb relative to its power consumption.	
6. Luminaire light output	Lumen per Watt (lm/W)	$\eta = \frac{\Phi}{P}$	The luminaire light output is the net light flux of a luminaire relative to its power consumption, including the operating equipment.	



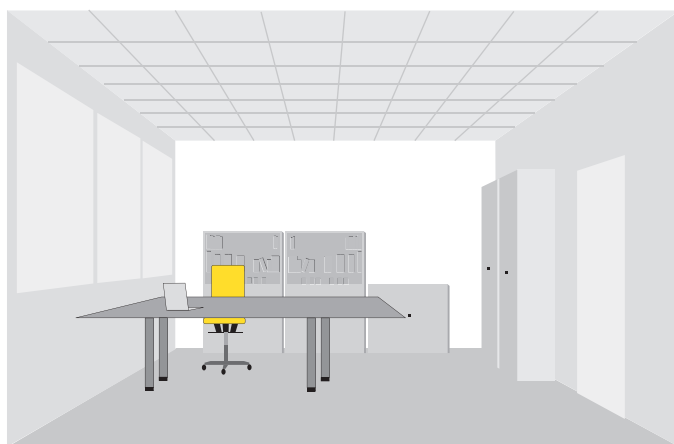
# 3. Lighting planning

The planning of a lighting system represents a complex task, including the working out of a lighting solution together with the building owner, the architect and the building services planner. This should fulfill valid standards and directives and should also meet the quality attributes for good lighting (see Section 4). And of course, successful lighting design in combination with the interior design also contributes to pleasant spacial environments.

## 3.1 Prerequisites

The following documents and specifications are necessary for planning a lighting system:

- Floor plan and sections of the rooms, room dimensions
- Ceiling system (type of construction and ceiling axis dimensions)
- Colours, reflection factors of ceiling, walls, floor and furniture
- Furniture or machine layouts
- Room use and visual tasks
- Position of work areas and surrounding areas
- Operating conditions such as temperature, dust and humidity (also see Fig. 3.3)



## 3.2 Standards

Lighting systems should comply to valid standards and directives. The basis for this is supplied by the European EN 12464 standard, 'Lighting of workplaces'.

### 3.2.1 EN 12464 Part 1 'Lighting of workplaces in indoor areas'

#### Extract from DIN EN 12464-1

The indicated maintenance values for the illuminance are mean values above the working zone on the horizontal, vertical or inclined reference area. Independent of age and condition of the lighting system, the mean illuminance may not fall below the indicated value.

The UGR value of a lighting system may not exceed the indicated value.

Type of room, visual task or activity	Em (lux)	UGR
<b>Traffic zones</b>		
Traffic zones and corridors	100	28
Staircases, escalators, moving pavements	100	25
Loading ramps, loading zones	150	25
<b>Break, sanitary and first aid rooms</b>		
Canteens, Coffee kitchen	200	22
Break rooms	100	22
Rooms for compensatory gymnastics	300	22
Cloakrooms, washrooms, bathrooms, toilets	200	25
First aid rooms	500	19
Rooms for medicinary case	500	16
<b>Control rooms</b>		
Rooms for facility installations, Control gear rooms	200	25
Telefax and Post offices, telefon registration	500	19
<b>Cold storages and stock rooms</b>		
Stockrooms	100	25
Shipping and Packing	300	25
<b>(High-bay) racks</b>		
Traffic route without passenger traffic	20	-
Traffic routes with passenger traffic	150	22
Control center	150	22
Front of (high) bay rack	200	-
<b>Agriculture</b>		
Charging and operating of conveyors and machines	200	25
Barns	50	-
Barns for sick animals, calving barns	200	25
Feed preparation, milk rooms, equipment cleaning	200	25
<b>Bakeries</b>		
Preparation and baking rooms	300	22
Final processing, glazing, decoration	500	22
<b>Electrical industry</b>		
Manufacture of cables and wires	300	25
Winding (of large coils)	300	25
Winding (of medium-sized coils)	500	22
Winding (of fine coils)	750	19
Impregnation of coils	300	25
Galvanization	300	25
Assembly works (rough, e.g. large transformers)	300	25
Assembly works (medium-fine, e.g. control panels)	500	22
Assembly works (precision, e.g. telephones)	750	19
Assembly works (high precision, e.g. measuring instruments)	1000	16
Electronic workshops, testing, adjustment	1500	16
<b>Metal working and processing</b>		
Hammer forging	200	25
Drop forging	300	25
Welding	300	25
Rough and medium machine works: Tolerances > = 0.1 mm	300	22
Precision machine works; grinding: Tolerances < = 0.1 mm	500	19
Marking, monitoring	750	19
Wire and tube drawing shops, cold forming	300	25
Processing of heavy sheets: Thickness > = 5 mm	200	25
Processing of light sheets: Thickness < 5 mm	300	22
Production of tools and cutting goods	750	19
Assembly works (rough)	200	25
Assembly works (medium-fine)	300	25
Assembly works (precision)	500	22
Assembly works (high precision)	750	19
Galvanization	300	25
Surface treatment and painting	750	25
Tool, gauge and fixture making, precision mechanics and micromechanics	1000	19

Type of room, visual task or activity	Em (lux)	UGR	Type of room, visual task or activity	Em (lux)	UGR
<b>Printing offices</b>			<b>Parkings</b>		
Cutting, gilding, embossing, etching of printing blocks, work on lithographs and platens, printing machines, matrix production	500	19	Entrance and exits (during the day)	300	25
Paper sorting and manual printing	500	19	Entrance and exits (during the night)	75	25
Fonts, retouching, lithography	1000	19	Routes	75	25
Colour checking of multicolour printing	1500	16	Parkings / parking spaces	75	-
Steel and copper engraving	2000	16	Counter	300	19
<b>Textile manufacture and processing</b>			<b>Kindergarten, play schools (pre-schools)</b>		
Workplaces and zones on baths, bale opening	200	25	Playrooms	300	22
Cordding, washing, ironing, work on opening machines, drawing, combing, roving, jute and hems spinning	300	22	Day nursery rooms	300	22
Spinning, twisting, spooling, winding	500	22	Hobby rooms (handicrafts rooms)	300	19
Warping, weaving, braiding, knitting	500	22	<b>Training centers</b>		
Sewing, fine knitting, picking up stitches	750	22	Classrooms, seminar rooms	300	19
Designing, pattern drawing	750	22	Classrooms for evening classes and adult education	500	19
Finishing, dyeing	500	22	Lecture halls	500	19
Drying rooms	100	28	Black, green boards and white boards	500	19
Automatic textile printing	500	25	Demonstration table	500	19
Slabbing, warp tying, cleaning	1000	19	Art rooms	500	19
Colour inspection, fabric inspection	1000	16	Art rooms in art schools	750	19
Invisible mending	1500	19	Rooms for technical drawings	750	16
Hat production	500	22	Exercise rooms and laboratories	500	19
<b>Automobile industry</b>			Handicraft rooms	500	19
Body construction and assembly	500	22	Training workshops	500	19
Paintwork, paint shops, grinding cabins	750	22	Music exercise rooms	300	19
Paintwork: Repair, inspection	1000	19	Computer training rooms (menu controlled)	300	19
Upholstery shop	1000	19	Language laboratories	300	19
Final inspection	1000	19	Preparation rooms and workshops	500	22
General car service, repair and testing	300	22	Entrance halls	200	22
<b>Wood processing and machining</b>			Traffic zones, corridors	100	25
Automatic processing, e.g. drying, laminated wood production	50	28	Staircases	150	25
Vaporization pit	150	28	Common areas for pupils / students and meeting rooms	200	22
Reciprocating saws	300	25	Staff room	300	19
Work at the joiner's bench, gluing, assembly	300	25	Libraries: Bookshelves	200	19
Grinding, painting, model joinery	750	22	Libraries: Reading area	500	19
Work on woodworking machines, e.g. turning, straightening, joining, cutting, sewing, milling	500	19	Collection of teaching resources	100	25
Selection of veneer woods	750	22	Sports halls, gymnasiums, swimming pools	300	22
Marquetry, wood inlaid works	750	22	School canteens	200	22
Quality control	1000	19	Kitchens	500	22
<b>Offices</b>			<b>3.2.2 Further standards and directives</b>		
Filing, copying etc.	300	19	EN 1838	Emergency lighting	
Writing, typewriting, reading, data processing	500	19	EN 12193	Sport hall lighting	
Technical drawing	750	16	EN 15193	Energy-related evaluation of buildings	
CAD workplaces	500	19	BSI LG 7	Lighting Guide 7: Office Lighting	
Conference and meeting rooms	500	19	DIN 5035	Lighting with artificial light	
Reception desks	300	22	DIN V 18599	Energy-related evaluation of buildings	
Archives	200	25	ASR 7/3	Workplace directive	
<b>Sales rooms</b>			BGR 131	Employers' association	
Sales area	300	22	Guidelines from specialist associations		
Counter areas	500	19			
Packing tables	500	19			
<b>Libraries</b>					
Bookshelves	200	19			
Reading areas	500	19			
Counters	500	19			



# 3. Lighting planning

## 3.3 Special requirements

According to the application area, special operating conditions must be taken into account when selecting luminaires. The following represents a selection of frequent requirements.

### 3.3.1 Higher protection ratings

Some of the most frequent strains on electrical control gear are dust and humidity. In rooms with such conditions, luminaires with higher protection ratings must be used that are designed to prevent the ingress of foreign bodies and/or water (see Fig. 8.6.).

### 3.3.2 Fire risk facilities

This concerns rooms where a danger exists of flammable materials coming into proximity with electrical operating devices, meaning that fire may result. In situations with danger of fire via dust and/or fibres, luminaires must comply with the minimum protection rating of IP50 and the D designation (see Fig. 8.6.). In such cases the temperatures of the luminaire surfaces where with correct mounting flammable materials may gather must not exceed specified limit values.

### 3.3.3 High or low ambient temperatures

Luminaires are inspected in laboratory conditions with standardised parameters. Ambient temperature is usually 25°C. If in practice the ambient temperature strongly differs from this (e.g. for cold stores or workshops with process heat) the luminaire manufacturer should be consulted. In some cases special measures must be carried out.

### 3.3.4 Resistance to aggressive materials

If aggressive materials in the room atmosphere exist for specific application areas, the luminaire manufacturer should be consulted in order to assess the suitability of the luminaires. In this case information concerning the type of materials, their concentrations in the ambient air, ambient temperature and air humidity should be given. With regard to the compatibility of plastics to chemicals see Fig. 8.2.4. In this connection, resistance to chemical cleaning solvents must also be ascertained.

### 3.3.5 Splinter protection

Both in sensitive production areas and especially in rooms used for foodstuff manufacturing, impurities via glass splinters (e.g. from lamp damage) must be prevented. For this reason lamps with protective tubing or closed luminaires should be used.

### 3.3.6 Increased safety requirements in the food industry

Particular strict criteria apply for the use of luminaires in rooms of the food and beverage industry. Along with a higher degree of protection, the focus is on shatter protection, mechanical and chemical resistance as well as aspects of cleaning and/or maintenance. Appropriate tests according to DIN 10500 need to be performed to prove that these luminaires satisfy the standard IFS Food (International Featured Standards Food, formerly International Food Standard) and/or the BRC-Global Standard Food (British Retail Consortium) and may therefore be used in companies certified according to these standards.

### 3.3.7 Protection against flying balls

In sports halls, balls collide with luminaires with a relatively high impact velocity. Here it must be guaranteed that lamps are not destroyed by the impact and that no danger for people occurs from falling pieces. Luminaires for sports halls must therefore be ball-proof (see Fig. 8.6.).

### 3.3.8 Suitability for computer workstations

In rooms with computer screens, non-computer screen compatible lighting can lead to reflections and therefore glare. Lighting planning must therefore determine the area for luminaire mounting that may lead to disturbances, and the type and arrangement of luminaires must be selected in such a way that no disturbing reflections are created. Computer screen-compatible luminaires are equipped with special lighting technology with which the luminance values in the critical angle areas are reduced (see Fig. 4.3.).

## 3.3.9 Further demands for colour rendition

Various colour rendering properties of lamps lead to different perception of colours, thus influencing visual performance and well-being. Natural colour rendition is especially important for visual tasks in which colours must be matched and controlled (e.g. dental laboratories, printing works, textile manufacturing and sales). In this regard, suitable lamps with optimal colour rendition should be used.

### 3.3.10 Clean rooms

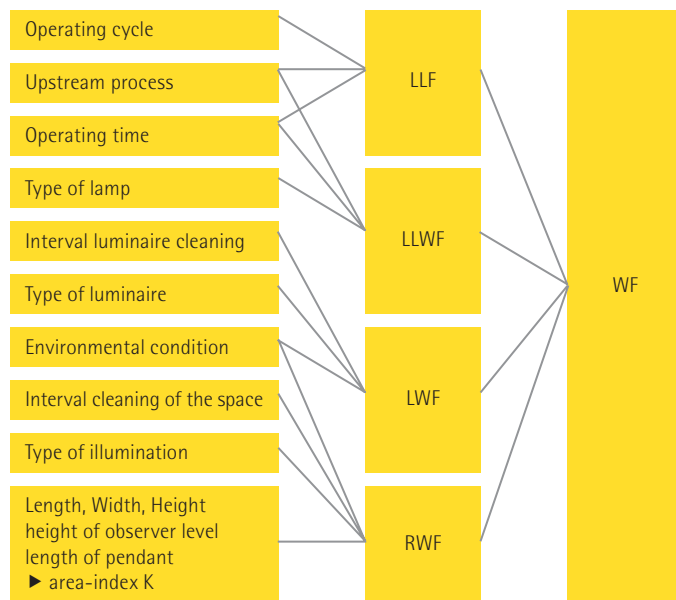
Clean room technology protects products, processes and people from the hazardous effects of contamination. That is why high quality requirements are placed on the operating resources (incl. illuminants), such as a reduction of particle emissions. Clean room applications are, for example, found in hospitals, in the pharmaceutical and foodstuff industries, in microelectronics and in research laboratories.

## 3.4 Maintenance factor

Illuminance levels specified in EN 12464 are so-called maintenance values and must not be fallen short of. Because in practice the actual illuminance level decreases due to ageing and soiling of the lamps, luminaires and the rooms, this is compensated for with the calculation of a maintenance factor (see Fig. 4.1). It is the duty of the lighting planner to specify or calculate the maintenance factor for the specific room and to draw up a maintenance plan. Mathematically, the maintenance factor represents the product of four part-maintenance factors:

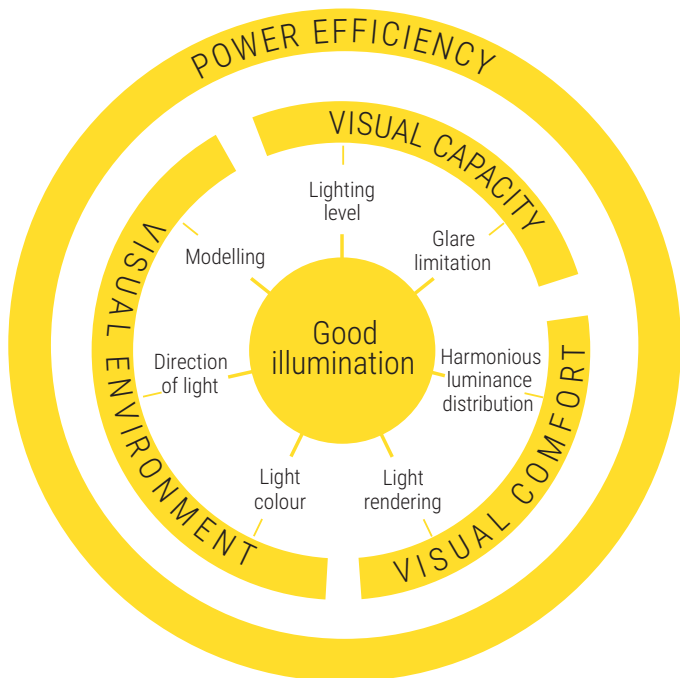
$$WF = LLWF \times LLF \times LWF \times RWF$$

LLF	Lamp service life factor (lamp failure during service life)
LLWF	Lamp luminous flux maintenance factor (reduction of luminous flux during service life)
LWF	Luminaire maintenance factor (soiling of luminaires between two cleaning cycles)
RWF	Room maintenance factor (reduction of reflection factors of the room surfaces)
WF	Maintenance factor



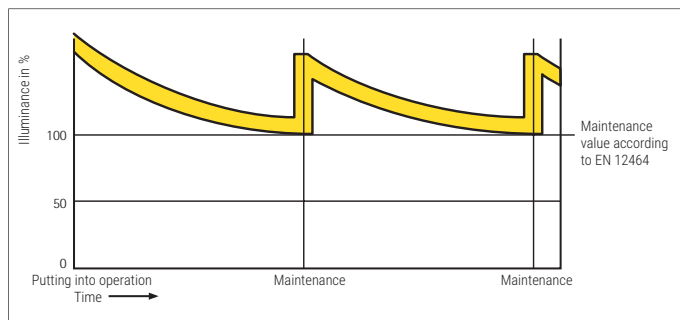
# 4. Quality criteria for good light

The task of indoor lighting is to supply people with an environment that contributes to their physical and emotional well-being and that also prevents accidents. In addition, lighting should influence the disposition of people according to high levels of performance, and with the intention of preventing premature tiredness and reducing errors. In order to optimally meet such requirements, several quality attributes should be considered during the planning process:



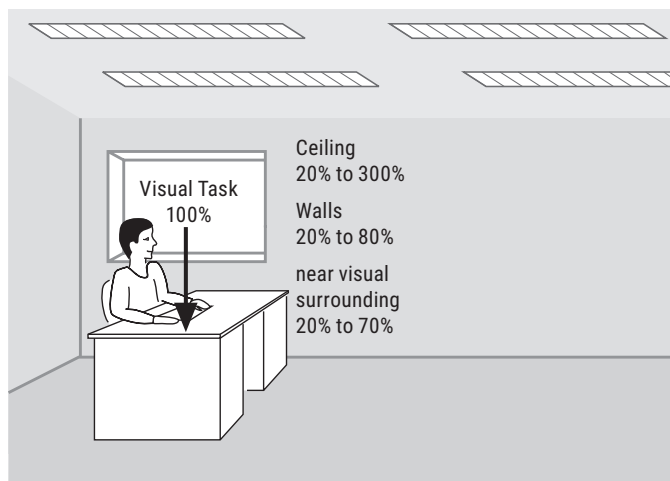
## 4.1 Lighting level

The lighting level is primarily defined by the level of illuminance. This in turn is dependent upon the visual task, and is oriented to the difficulty of recognising specific contrast and detail as well as the speed at which these must be perceived. The EN 12464 standard defines the required illuminance levels for various types of room and activity. Maintenance values specified for the illuminance levels are mean values for the workzones of the rooms in the specific working planes. Independent of the age and condition of the lighting system, the mean illuminance level must not fall below the specified value. For all lighting systems, illuminance levels decrease with increasing age of the lamps and because of the collection of dust. In addition, the reflecting peripheral surfaces of the room also usually darken with age or become dusty. The lighting system must therefore be planned according to a light loss factor that considers all influences and that was calculated for the intended lighting equipment, the spacial environment and the maintenance plan to be defined.



## 4.2 Luminance distribution

The illuminance level in a room says little about a balanced and uniform distribution of the luminance on various surfaces. A homogeneous brightness distribution and the lighting level required for this are the prerequisites for well-being with people. Optimal viewing conditions are given when the luminance contrasts between the object viewed and the larger surfaces of its surroundings are kept within specified limits. The recommended luminance ratio between viewing task and the near or far surroundings should not exceed 3:1 and should not be less than 1:3. The luminance of peripheral room surfaces and the viewed object can be established by us with the aid of special programs.



Recommended luminance ratio between visual task and the near or the distant surroundings.

## 4.3 Glare limitation

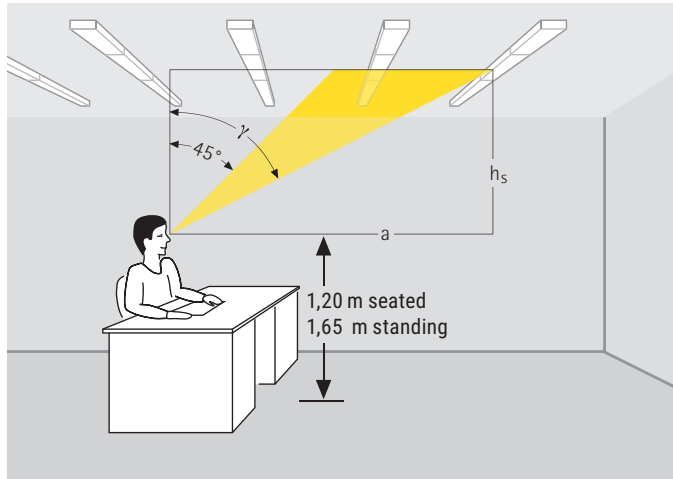
Direct glare is caused by excessive luminance in the field of view. It diminishes visual acuity (physiological glare) and may seriously lessen the sense of well-being (psychological glare). Methods of glare evaluation for indoor luminaires evaluate the limitation of luminance within the critical beam angle. As a standard evaluation system the UGR (Unified Glare Rating) method was introduced in Europe as the DIN EN 12464-1 standard. Details concerning the UGR method are described in the CIE 117 publication. The UGR value of a lighting installation, determined according to a table for the position of a standard viewer, is not permitted to exceed the value specified by the standard.

### Reflected glare is caused by disturbing reflections upon blank surfaces.

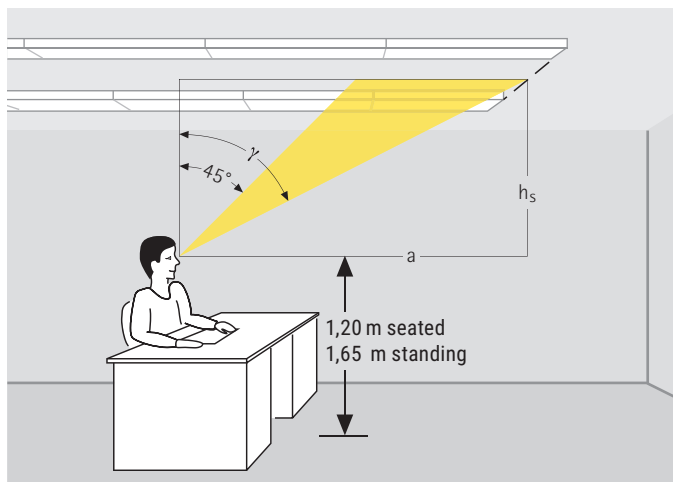
As shown in the illustration, no light from the marked area should fall onto the working plane. According to the physical law 'angle of incidence = angle of reflection', reflections occurring would lie precisely in the field of view of the person working there. Matt work surfaces help significantly in solving the problem of reflected glare. Reflected glare leads to similar disturbances as direct glare, and impairs mainly contrasts, which are required for disturbance-free seeing. The lighting of computer screen workspaces requires especially careful planning, because strong reflections on the screens often make work impossible.



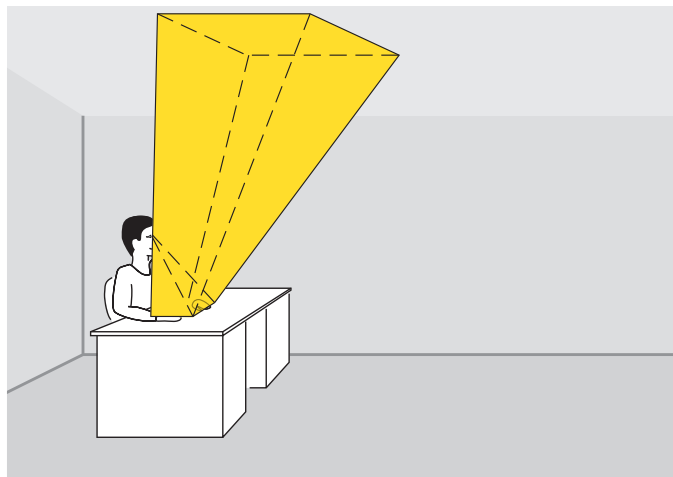
# 4. Quality criteria for good light



Arrangement of luminaires at right angles.

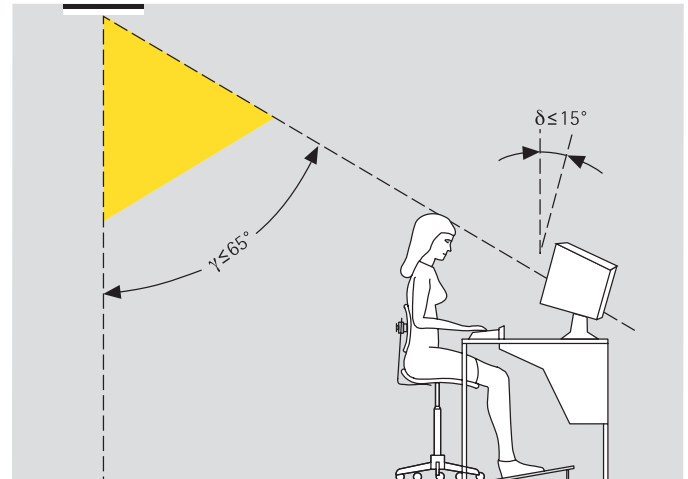


Arrangement parallel to the line of vision.



Reflected glare is caused by disturbing reflections on bright surfaces.

The reflective properties of the screen surfaces, the screen polarity and its curvature in combination with shining surfaces in the room are the decisive factors of influence for the assimilation of information via screens. Disturbing reflections can be lessened with anti-reflection measures for the screen surface. The suitability of luminaires is specified in DIN EN 12464-1. Depending on screen quality and screen polarity, the luminance values of luminaires and shiny surfaces reflected on the screens must not exceed the specified limitation values for mean luminance. Depending on these screen classes and the screen polarity, the luminance values of luminaires and shiny surfaces reflected on the screens must not exceed the specified limitation values for mean luminance. These limitation values are considered for luminaires above an emission angle of 65° all round.

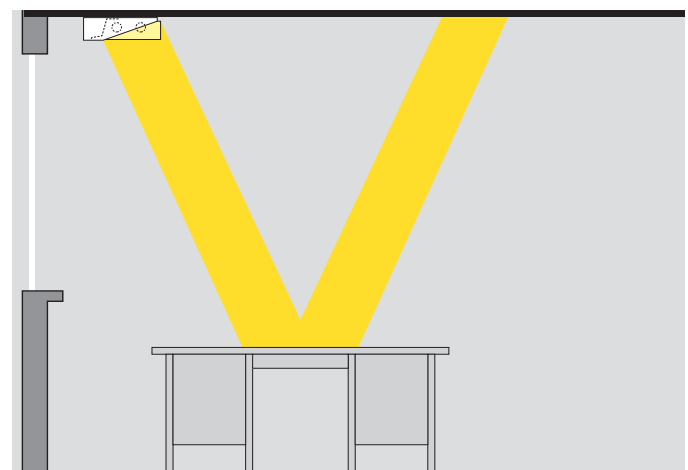


"High state"-luminance of the screen	Screens with high luminance $L > 200 \text{ cd/m}^2$	Screens with mean luminance $L \leq 200 \text{ cd/m}^2$
<b>Case A</b> Positive polarity and usual requirements with regard to colour and details of the presented information, e.g. as available in offices, classes, etc.	$\leq 3000 \text{ cd/m}^2$	$\leq 1500 \text{ cd/m}^2$
<b>Case B</b> Negative polarity and/or higher requirements with regard to colour and details of the presented information, e.g. as available in case of CAD, colour verification, etc.	$\leq 1500 \text{ cd/m}^2$	$\leq 1000 \text{ cd/m}^2$

**Note:** "High state"-luminance of the screen (see EN ISO 9241-302) describes the maximum luminance of the white area of the screen. Manufacturers of screens indicate that value.

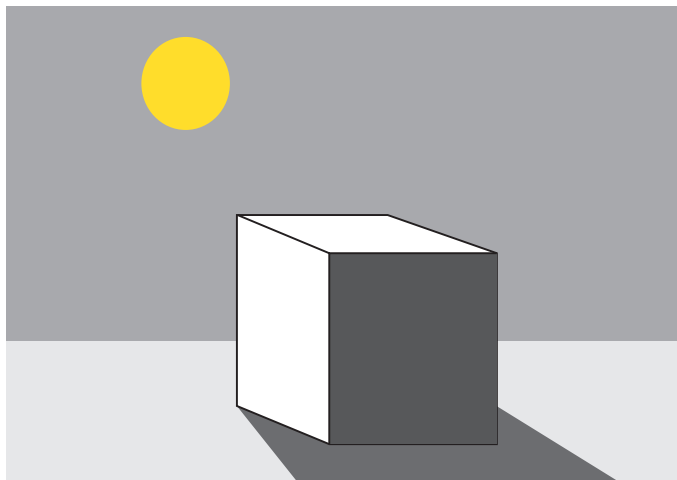
## 4.4 Light direction and shadows

Light direction should fundamentally be oriented to the ingress of daylight. The correct arrangement of luminaires is an important prerequisite for the avoidance of direct glare. Angle-dependent reflected glare can be minimised through advantageous arrangements. (As the illustration shows, lateral light incidence prevents glare of shiny table surfaces. Lateral light with luminaire arrangements parallel to the direction of view is therefore the best solution).

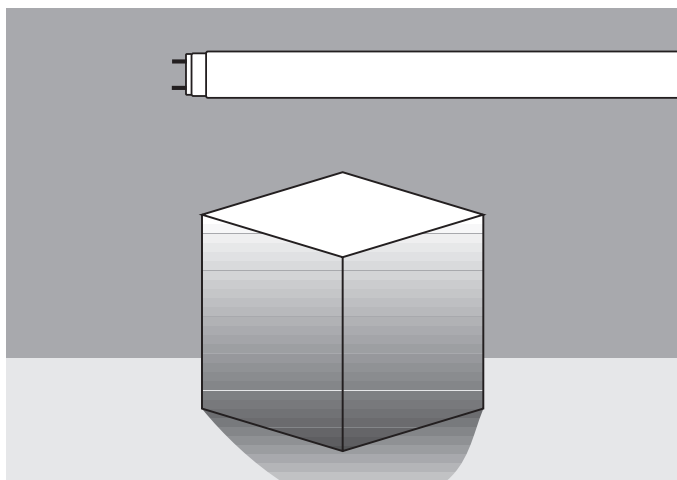


## 4. Quality criteria for good light / 5. Energy efficiency

For good recognition of illuminated forms and surface structures, sufficient shadowing must be achieved with aid of the lighting. Strong shadowing in most cases is an advantage for emphasis of sales objects or for making danger spots visible. Balanced shadows with soft edges are desired though for the general lighting of indoor spaces. Directed light and strong shadowing. With general lighting, shadowing can be evaluated with the ratio of cylindrical illuminance  $E_Z$  to horizontal illuminance  $E$ . Overshadowing is avoided when the ratio of  $E:E_Zh$  is not less than 0.3 at a height of 1.2 m above floor level.  $E_Z$  is the mathematical mean value of the four vertical illuminance levels at the reference level of 1.2 m (see DIN 5031, Sector 3). The figures show shadowing with point-source lighting and with lighting arranged in continuous runs.



Directed light and considerable shadowing.



General lighting and balanced shadows.

### 4.5 Light colour and colour rendition

These factors contribute to visual perception and the recognition of our environment. Only with the right 'colour climate' do people feel at ease. This factor is defined via the light source and its colour rendition properties as well as the colour design of the room. Light colour, colour rendition and the colour surroundings of a room must therefore be matched.

### 4.6 Energy efficiency

As well as the above-mentioned classic quality attributes, the energy efficiency of a lighting system is becoming ever more important. With total costs of lighting over the complete utilisation period, costs for electricity amount to approximately 50%. 25% each are to be calculated for the factors of purchase and installation/maintenance. Energy-saving systems significantly minimise costs, relieve the environment and fulfill new legislative framework conditions (see 5.)

### Further information

in theme catalogue  
„Human Centric Lighting“



## 5. Energy efficiency

### 5.1 EnEV

The requirements on the energetic quality of new-builds and modernisation of old-builds are set out in the Energy Saving Ordinance (EnEV). After several revisions since it came into force, the current version of the EnEV has been valid since 1/5/2014. Its objective is to reduce energy consumption for buildings down to the lowest energy standard in two stages – 2014 and 2016 to 2021. This is already a target for public buildings for 2019. As the calculation procedure for energy assessment, the EnEV defines DIN V 18599 (see Section 5.2).

### 5.2 DIN V 18599

In the German DIN V 18599 standard, energy-related evaluation of buildings calculation of used, end and primary energy requirements for heating, cooling, ventilation, hot water and lighting', the energy requirements for lighting is considered as a whole together with the complete energy efficiency of buildings. The buildings are zoned according to energy specifications and each zone is assigned a utilisation profile. For calculation methods, the standard defines both simple tables and detailed specialist planning.

### 5.3 Energy audit

With the introduction of the energy services act (EDL-G) energy audits in accordance with EN 16247-1 are mandatory for all commercial enterprises as of December 2015. Only small and medium-sized enterprises (SME) as well as companies with their own energy management system in accordance with ISO 50001 are exempt from this. At least 90 % of the total energy consumption is determined as part of the audit and possible potential for energy savings are highlighted.

### 5.4 Modern lighting systems

In order to meet increased needs for energy efficiency, lighting installations should be optimised according to energy-related factors. This applies both to the refurbishment of old systems and lighting systems to be newly installed.

The components to be analysed are:

- Light source (in particular luminous flux)
- Control gear (connected load, start behaviour, standby losses)
- Lighting technology of the luminaire (light output ratio and light distribution)
- Lighting management (lighting control, presence detection)
- Maintenance (long service life, ease of maintenance)

### Further information

in theme catalogue  
„Light · Energy · Environment“





# 6. Lamps

## 6.1 LED

The LED technology offered by Regiolux is a sure winner thanks to its high levels of efficiency and low energy consumption. Efficiency here includes low maintenance expense, ruggedness, and a long service life. Effective temperature management in luminaire construction with LED is important when it comes to meeting all expectations. It ensures the performance characteristics are met and the luminaire has the promised service life. An effective and passive cooling is the consequence in technical terms. An optimal light control system affects lighting wellbeing, as well as energy efficiency. You are sure to expect high-quality light technology in all our LED luminaires.

As an energy-efficiency option for traditional lighting systems, our LED luminaires also always need to meet basic quality demands on light wellbeing. also performed solid work here too. We have selected specific lumen packages, optimal colour rendition and various colour temperatures for our Regiolux luminaires. Another quality characteristic is our uniformly stable colour locus. Energy efficiency and service life are not always the crucial factors in LED lighting. LED technology gets further plus points when the lighting system also needs quick and frequent switching, long maintenance intervals or special toughness requirements.

Regiolux LED luminaires ensure you can realise sophisticated lighting concepts and provide perfect illumination for your projects.

Our photometric data are created by us with great care. Due to the high dynamics in the LED and LED-driver field, however, the electrical and photometric data indicated by our suppliers comes with a tolerance of typically  $\pm 10\%$ .

Therefore, this tolerance also applies to our figures and it indicated by our suppliers on their data sheets. These data sheets can be provided upon request.

### 6.1.1 LED benefits

- Lower power consumption
- Long service life
- Unlimited switching capability
- Full light right away
- Continuously dimmable
- No IR and no UV radiation
- High impact- and vibration strength
- Small dimensions
- Mercury free

### 6.1.2 Luminous flux and light yield

Thanks to the rapid development of LED in recent years, they are also able to provide the relatively high quantities of light for general lighting in the technical light area. The amount of light - or Luminous flux (unit: Lumens) - denotes the total amount of light power emitted by a bulb or luminaire. When the Luminous flux in an LED only relates to the LED module (or an LED spot), this is called the gross luminous flux. This information is dependent on the different operating parameters and is defined by the LED manufacturer. If the module is built into a luminaire, the luminous flux will change due to a change in the operating conditions (such as temperature). Losses also come about as a result of technical light measures carried out on the luminaire (e.g. glare reduction), which means that a reduced luminous flux actually exits the luminaire. This is called the net luminous flux.

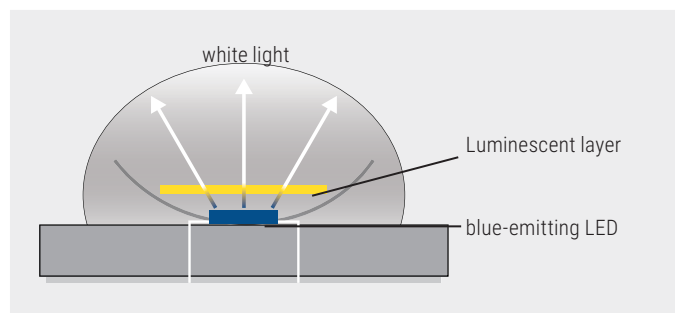
According to the definition, the light yield denotes the ratio of the emitted luminous flux to the electrical supply and is given in Lumens per Watt. A distinction must be made between gross and net here. For the gross light yield, the yield luminous flux of the module is used, whereby the electrical connecting line can be calculated with or without the operating device. In planning programs such as e.g. Relux however, the net light yield is calculated - this is called the luminaire light yield. This is based on the net luminous flux and the system performance of LED and driver. An identifying characteristic in terms of the net figure is data about the operating efficiency of the LED luminaire at precisely 100%. In light technology, this is called absolute photometry.

In the meantime the market has come to prefer net values, in particular, when comparing different types of LED luminaire. Knowledge of gross and net is essential to avoid comparing apples with pears.

### 6.1.3 Luminous flux and light colour

In contrast to the colour mix comprising red/green/blue, the efficiency of most white-emitting LED is based on the LED chip initially producing blue radiation. This blue light is deflected by a luminescent layer which is e.g. constructed from yellow phosphorus. According to the principle of luminescence conversion, white light is then produced from blue and yellow.

If wanting to produce a warmer light colour, the admixture of light needs additional red components in the luminescent layer. However, these components work less effectively. This is the reason why the LED luminaires of the same type and rating have a lower luminous flux for a warm white light colour compared to variants with a higher colour temperature.



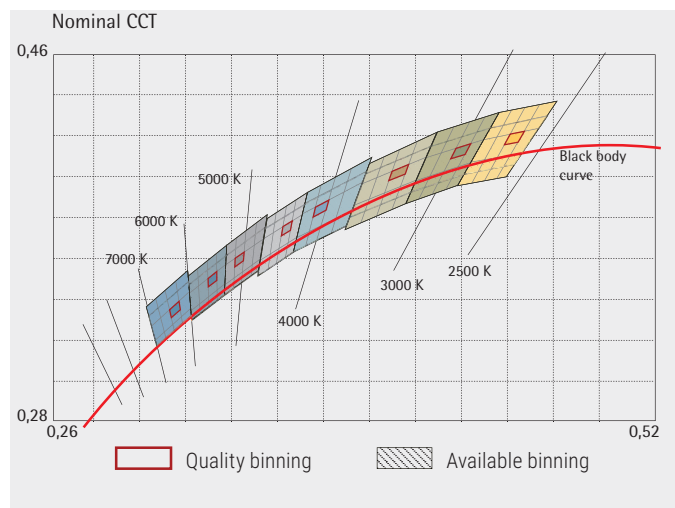
Origin of the light colour in an LED

### 6.1.4 Binning

Depending on production tolerances of LED, these may vary in their light quantity and colour temperature. However, to achieve a constant light quality with the same level of brightness and light colour, LED are sorted by their values. LED with identical or similar parameters end up in the same bin. The narrower the tolerances, the higher the quality of the "binings".

The following terms are often used in connection with binning:

- Colour consistency – same light colour from lamp to lamp
- Colour locus constancy – the light colour does not drift due to ageing or when the luminaires are dimmed



Fine sorting according to colour locus (binning) ensure the quality criteria of the LED technology.

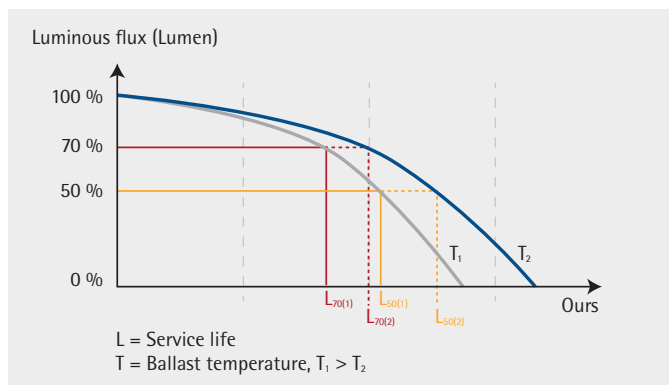
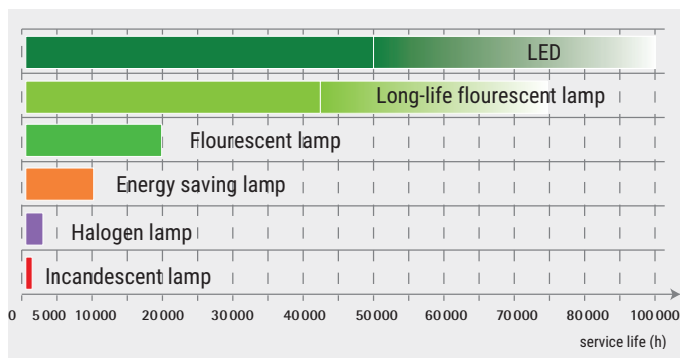
### 6.1.5 Thermal management

The LED light is free of infrared radiation. This makes the LED ideal for illuminating sensitive objects, such as in museums or shops. A high proportion of heat arises directly in the LED chip during light generation. This is due to high power density on a small surface. This heat will need to be dissipated since the luminous flux falls at high temperatures and the service life decreases. Construction of the luminaire with appropriate heat dissipation measures is thus very important in ensuring that the operating temperature of the LED is optimal.

### 6.1.6 Service life

LED used in the technical light area usually have a service life of 50,000 hours and above. This makes the LED one of the longest-lasting lighting mediums available today - without question. In practice, this means a considerable reduction in maintenance costs. Service life information is supplemented by values about degradation and mortality. Degradation, given in  $L_x$ , is defined as the reduction in the LED's luminous flux due to ageing. Mortality  $B_y$  describes the LED's failure rate.

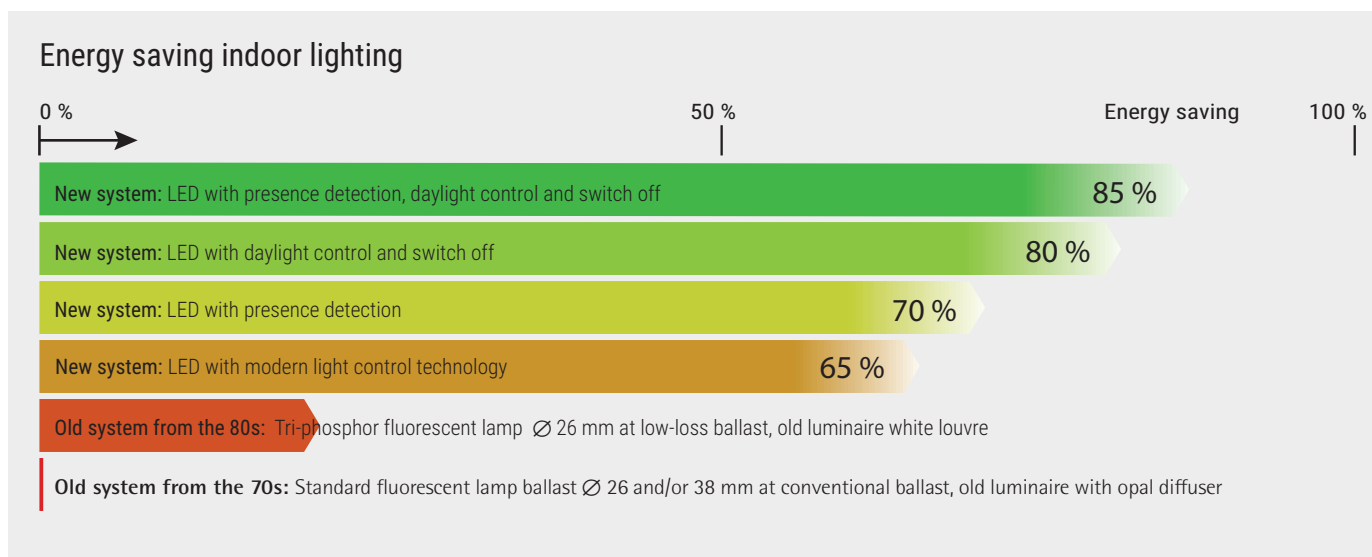
For example, if an LED luminaire features with L80B10, this means that after 50,000 hours of use, the luminous flux has reduced to 80% of its initial value. Ten per cent of LED are allowed to drop below the 80% level, excluding total failures. An important factor influencing both the Luminous flux and the service life is temperature. If there is too much heat, this has a negative effect on the luminous flux and service life. This means effective thermal management with efficient heat dissipation is especially important for LED luminaires.



### 6.1.7 Light management with LED

Light management components further increase the energy efficiency of lighting systems. Even basic presence indicator switches improve the efficiency of such systems at relatively little expense. Since frequent switching of the LED does not result in a reduction of the service life, this lighting medium is ideal for such applications. In addition, the LED immediately starts at 100 % light and no follow-up times need be configured.

Daylight-dependent rules with or without a presence function can be realised with components from the „Light Control“ catalogue chapter or with the prepared master luminaires such as e.g. alvia M5S5. Compared to legacy systems with conventional luminaires and magnetic pre-switching, the savings potential of energy costs can reach up to 85%.









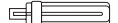

### 6.1.8 Warranty

We offer warranty periods of up to 5 years on LED module and drivers. Simply register at [www.regiolux.de/en/service/warranty](http://www.regiolux.de/en/service/warranty), within 2 months after taking delivery of the product at the latest



# 6. Lamps

## 6.2 Lamps overview conventional lamps

Category	designation (LBS)	power (W)	lampholder	colour rendering	colour temperature	luminous flux (lm)
<b>Fluorescent lamps</b>						
	T16 (T5)	8	G5	> 90 Ra	ww,tw	300
	T16 (T5)	8	G5	80 - 89 Ra	ww,nw	450
	T16 (T5)	13	G5	> 90 Ra	ww,tw	680
	T16 (T5)	13	G5	80 - 89 Ra	ww,nw	1000
	T16 (T5)	14	G5	80 - 89 Ra	ww, nw, tw	1200
	T16 (T5)	21	G5	80 - 89 Ra	ww, nw, tw	1900
	T16 (T5)	24	G5	> 90 Ra	nw, tw	1400
	T16 (T5)	24	G5	80 - 89 Ra	ww, nw, tw	1750
	T16 (T5)	28	G5	80 - 89 Ra	ww, nw, tw	2600
	T16 (T5)	35	G5	80 - 89 Ra	ww, nw, tw	3300
	T16 (T5)	39	G5	80 - 89 Ra	ww, nw, tw	3100
	T16 (T5)	49	G5	> 90 Ra	nw, tw	3500
	T16 (T5)	49	G5	80 - 89 Ra	ww, nw, tw	4300
	T16 (T5)	54	G5	> 90 Ra	nw, tw	3800
	T16 (T5)	54	G5	80 - 89 Ra	ww, nw, tw	4450
T16 (T5)	80	G5	80 - 89 Ra	ww, nw, tw	6160	
	T26 (T8)	15	G13	> 90 Ra	ww,tw	750
	T26 (T8)	15	G13	80 - 89 Ra	ww, nw	950
	T26 (T8)	16	G13	> 90 Ra	ww	950
	T26 (T8)	16	G13	80 - 89 Ra	ww,nw	1250
	T26 (T8)	18	G13	> 90 Ra	ww, nw, tw	1000
	T26 (T8)	18	G13	80 - 89 Ra	ww, nw, tw	1350
	T26 (T8)	30	G13	> 90 Ra	ww	1950
	T26 (T8)	30	G13	80 - 89 Ra	ww,nw,tw	2400
	T26 (T8)	36 (1m)	G13	> 90 Ra	tw	2600
	T26 (T8)	36 (1m)	G13	80 - 89 Ra	ww,nw	3100
	T26 (T8)	36	G13	> 90 Ra	ww, nw, tw	2350
	T26 (T8)	36	G13	80 - 89 Ra	ww, nw, tw	3350
	T26 (T8)	38	G13	80 - 89 Ra	ww, nw, tw	3000
	T26 (T8)	58	G13	> 90 Ra	ww, nw, tw	3750
	T26 (T8)	58	G13	80 - 89 Ra	ww, nw, tw	5200
<b>Compact fluorescent lamps</b>						
	TC-S	5	G23	80 - 89 Ra	ww, nw	250
	TC-S	7	G23	80 - 89 Ra	ww, nw	400
	TC-S	9	G23	80 - 89 Ra	ww,nw,tw	600
	TC-S	11	G23	80 - 89 Ra	ww,nw,tw	900
	TC-SEL	5	2 G7	80 - 89 Ra	ww, nw	250
	TC-SEL	7	2 G7	80 - 89 Ra	ww, nw	400
	TC-SEL	9	2 G7	80 - 89 Ra	ww, nw	600
	TC-SEL	11	2 G7	80 - 89 Ra	ww, nw	900
	TC-D	10	G24 d-1	80 - 89 Ra	ww, nw	600
	TC-D	13	G24 d-1	80 - 89 Ra	ww, nw	900
	TC-D	18	G24 d-2	80 - 89 Ra	ww, nw	1200
	TC-D	26	G24 d-3	80 - 89 Ra	ww, nw	1800
	TC-DEL	10	G24 q-1	80 - 89 Ra	ww, nw	600
	TC-DEL	13	G24 q-1	80 - 89 Ra	ww, nw	900
	TC-DEL	18	G24 q-2	80 - 89 Ra	ww, nw	1200
	TC-DEL	26	G24 q-3	80 - 89 Ra	ww, nw	1800
	TC-T	13	GX24 d-1	80 - 89 Ra	ww, nw	900
	TC-T	18	GX24 d-2	80 - 89 Ra	ww, nw	1200
	TC-T	26	GX24 d-3	80 - 89 Ra	ww, nw	1800
	TC-TEL	13	GX24 q-1	80 - 89 Ra	ww, nw	900
	TC-TEL	18	GX24 q-2	80 - 89 Ra	ww, nw	1200
	TC-TEL	26	GX24 q-3	80 - 89 Ra	ww, nw	1800
	TC-TEL	32	GX24 q-3	80 - 89 Ra	ww, nw	2400
	TC-TEL	42	GX24 q-4	80 - 89 Ra	ww, nw	3200
	TC-TEL	57	GX24 q-5	80 - 89 Ra	ww, nw	4300



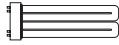
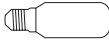


OSRAM	Philips	Sylvania	GE
L 8 W/9..	-	-	-
L 8 W/8..	TL80 8 W /8..	F8 W/8..	F8 W/8..
L 13 W/9..	-	-	-
L 13 W/8..	TL80 13 W /8..	-	F13 W/8..
HE 14 W/8..	TL5 14 W HE/8..	FHE 14 W/8..	FT5/14 W/8..
HE 21 W/8..	TL5 21 W HE/8..	FHE 21 W/8..	FT5/21 W/8..
HO 24 W/9..	TL5 24 W HO/9..	-	-
HO 24 W/8..	TL5 24 W HO/8..	FHO 24 W/8..	FT5/24 W/8..
HE 28 W/8..	TL5 28 W HE/8..	FHE 28 W/8..	FT5/28 W/8..
HE 35 W/8..	TL5 35 W HE/8..	FHE 35 W/8..	FT5/35 W/8..
HO 39 W/8..	TL5 39 W HO/8..	FHO 39 W/8..	FT5/39 W/8..
HO 49 W/9..	TL5 49 W HO/9..	-	-
HO 49 W/8..	TL5 49 W HO/8..	FHO 49 W/8..	FT5/49 W/8..
HO 54 W/9..	TL5 54 W HO/9..	-	-
HO 54 W/8..	TL5 54 W HO/8..	FHO 54 W/8..	FT5/54 W/8..
HO 80 W/8..	TL5 80 W HO/8..	FHO 80 W/8..	FT8/80 W/8..
L 15 W/9..	-	-	-
L 15 W/8..	TL-D 15 W/8..	F15 W/8..	FT8/15 W/8..
L 16 W/9..	-	-	-
L 16 W/8..	TL-D HF 80 16 W/8..	F16 W/8..	-
L 18 W/9..	TL-D 18 W/9..	F18 W/9..	-
L 18 W/8..	TL-D 18 W/8..	F18 W/8..	FT8/18 W/8..
L 30 W/9..	-	-	-
L 30 W/8..	TL-D 80 30 W /8..	F30 W/8..-	-
L 36 W/9..-1	-	-	-
L 36 W/8..-1	TL-D 80 1m 36 W /8..	F36 W71M/8..	-
L 36 W/9..	TL-D 36 W/9..	F36 W/9..	F36 W/9..
L 36 W/8..	TL-D 36 W/8..	F36 W/8..	FT8/36 W/8..
L 38 W/8..	TL-D 38 W/8..	F38 W/8..	-
L 58 W/9..	TL-D 58 W/9..	F58 W/9..	-
L 58 W/8..	TL-D 58 W/8..	F58 W/8..	FT8/58 W/8..
Dulux S 5 W/..	PL-S 5 W/.. /2P	CF-S 5 W/..	F5BX/..
Dulux S 7 W/..	PL-S 7 W/.. /2P	CF-S 7 W/..	F7BX/..
Dulux S 9W/8..	PL-S 9 W/8.. /2P	CF-S 9 W/..	F9BX/..
Dulux S 11 W/8..	PL-S 11 W/8.. /2P	CF-S 11 W/..	F180 - 89 RaX/..
Dulux S 7 W/..	PL-S 5 W/.. /4P	CF-SE 5 W/..	F5BX/.. /4P
Dulux S/E 7 W/..	PL-S 7 W/.. /4P	CF-SE 7 W/..	F7BX/.. /4P
Dulux S/E 9 W/..	PL-S 9 W/.. /4P	CF-SE 9 W/..	F9BX/.. /4P
Dulux S/E 11 W/..	PL-S 11 W/.. /4P	CF-SE 11 W/..	F180 - 89 RaX/.. /4P
Dulux D 10 W/..	PL-C 10 W/.. /2P	CF-D 10 W/..	F10DBX/..
Dulux D 13 W/..	PL-C 13 W/.. /2P	CF-D 13 W/..	F13DBX/..
Dulux D 18 W/..	PL-C 18 W/.. /2P	CF-D 18 W/..	F18DBX/..
Dulux D 26 W/..	PL-C 26 W/.. /2P	CF-D 26 W/..	F26DBX/..
Dulux D/E 10 W/..	PL-C 10 W/.. /4P	CF-DE 10 W/..	F10DBX/.. /4P
Dulux D/E 13 W/..	PL-C 13 W/.. /4P	CF-DE 13 W/..	F13DBX/.. /4P
Dulux D/E 18 W/..	PL-C 26 W/.. /4P	CF-DE 18 W/..	F18DBX/.. /4P
Dulux D/E 26 W/..	PL-C 26 W/.. /4P	CF-DE 26 W/..	F26DBX/.. /4P
Dulux T 13 W/..	-	-	F13TBX/..
Dulux T 18 W/.. (IN)	PL-T 18 W/.. /2P	CF-T 18 W/..	F18TBX/..
Dulux T 26 W/.. (IN)	PL-T 26 W/.. /2P	CF-T 26 W/..	F26TBX/..
Dulux T/E 13 W/..	-	-	F13TBN/.. /A/4P
Dulux T/E 18 W/.. (IN)	PL-T 18 W/.. /4P	CF-TE 18 W/..	T18TBX/.. /A/4P
Dulux T/E 26 W/.. (IN)	PL-T 26 W/.. /4P	CF-TE 26 W/..	T26TBX/.. /A/4P
Dulux T/E 32 W/.. (IN)	PL-T 32 W/.. /4P	CF-TE 32 W/..	T32TBX/.. /A/4P
Dulux T/E 42 W/.. (IN)	PL-T 42 W/.. /4P	-	-
-	PL-T 57 W/.. /4P	-	-



# 6. Lamps

## 6.2 Lamps overview conventional lamps

Category	designation (LBS)	power (W)	lampholder	colour rendering	colour temperature	luminous flux (lm)
<b>Compact fluorescent lamps</b>						
	TC-TSE	20	E27	80 - 89 Ra	ww,nw,tw	1200
	TC-TSE	23	E27	80 - 89 Ra	ww,nw,tw	150
	TC-L	18	2 G11	> 90 Ra	ww, nw, tw	750
	TC-L	18	2 G11	80 - 89 Ra	ww, nw	1200
	TC-L	24	2 G11	> 90 Ra	ww, nw, tw	1200
	TC-L	24	2 G11	80 - 89 Ra	ww, nw	1800
	TC-L	36	2 G11	> 90 Ra	ww, nw, tw	1900
	TC-L	36	2 G11	80 - 89 Ra	ww, nw	2900
	TC-L	40	2 G11	80 - 89 Ra	ww, nw	3500
	TC-L	55	2 G11	> 90 Ra	ww, nw	3000
	TC-L	55	2 G11	80 - 89 Ra	ww, nw	4800
	TC-L	80	2 G11	80 - 89 Ra	ww, nw	6000
	TC-F	24	2 G10	80 - 89 Ra	ww, nw	1700
	TC-F	36	2 G10	80 - 89 Ra	ww, nw	2800
<b>Tubular incandescent lamps</b>						
	IT	15	E 14	> 90 Ra	ww	90
	IT	25	E 14	> 90 Ra	ww	190
	IT	40	E 14	> 90 Ra	ww	380

Please observe the operating and handling instructions from the lamp manufacturers.

OSRAM	Philips	Sylvania	GE
Dulux EL LL 20 W/8..	PL-E 20 W/8..	Mini-Lynx T 20W/8..	-
Dulux EL LL 23 W/8..	PL-E 23 W/8..	Mini-Lynx T 23W/8..	-
Dulux L 18 W/..	PL-L 18 W/./4p	CF-L 18 W/..	F18 BX/..
Dulux L 18 W/..	PL-L 18 W/./4p	CF-L 18 W/..	F18 BX/..
Dulux L 24 W/..	PL-L 24 W/./4p	CF-L 24 W/..	F24 BX/..
Dulux L 24 W/..	PL-L 24 W/./4p	CF-L 24 W/..	F24 BX/..
Dulux L 36 W/..	PL-L 36 W/./4p	CF-L 36 W/..	F36 BX/..
Dulux L 36 W/..	PL-L 36 W/./4p	CF-L 36 W/..	F36 BX/..
Dulux L 40 W/..	PL-L 40 W/./4p	CF-LE 40 W/..	F40 BX/..
Dulux L 55 W/..	PL-L 55 W/./4p	-	F55 BX/..
Dulux L 55 W/..	PL-L 55 W/./4p	CF-LE 55 W/..	F55 BX/..
Dulux L 80 W/..	PL-L 80 W/./4p	-	-
Dulux F 24 W/8..	-	-	-
Dulux F 36 W/8..	-	-	-
SPC T25/85 CL 15	T 17 clear	07314	-
SPC T25/85 CL 25	T 25 clear	07350	-
SPC T30/73 FR 40	-	-	-

### 6.2.1 Burning-in of fluorescent lamps

New fluorescent lamps, especially T5 versions, require a burn-in time of approx. 100 hours for basic stabilisation. With operation of lamps with dimmable electronic control gear, burn-in must take place with dimming set at 100%.

### 6.2.2 Cool spot

Lamps in T5 design have a so-called 'cool spot', the coolest point on the stamp side of the lamp. With multi-lamp luminaires care must be taken that the stamped ends are on the same side, so that the cool spot does not overheat. If T5 lamps are arranged vertically, the stamp imprint should be below.

# 7. Ballasts / electrics

## 7.1 Types of ballast operation

Conventional illuminants, such as T8 fluorescent lamps can be operated using magnetic or electronic ballasts. Modern illuminants, such as LED, operate exclusively with electronic drivers. Differences between magnetic and electronic ballasts primarily affect energy efficiency and lighting comfort.

### 7.1.1 Magnetic ballasts and starters

From an energy-related point of view, the introduction of illuminants and ballasts to the market is governed by the "Energy-using Products" (EuP) Directive 2005/32/EC, which was superseded by the Ecodesign Directive 2009/125/EC. In Germany, transposition into national law is handled by the energy-using products act (Energiebetriebene-Produkte-Gesetz EBPG), later renamed to 'Act governing the environmentally sound design of energy-using products' (Gesetz über die umweltgerechte Gestaltung energieverbrauchsrelevanter Produkte). Since April 2017, low-loss magnetic ballasts for fluorescent lamps, which new introduced, must comply with efficiency rating A2 as a minimum. All luminaires equipped with magnetic ballasts must be equipped with reliable glow starters. Safety starters that switch off flickering fluorescent lamps at the end of their service life can be subsequently fitted upon request.

### 7.1.2 Electronic ballasts

Fluorescent luminaires operated with ECG have approximately 15% less power consumption compared to low loss control gear. Further advantages: flicker-free instant start without a glow starter, idle current power factor correction is not applicable and the service life of the fluorescent lamps is increased. Under nominal conditions, electronic ballasts are designed to achieve a failure probability of less than 10% and a mean service life of 50,000 hours. An exponential relation exists between the failure rate and the thermal load of the ECG. Exceeding permissible temperatures significantly shortens the service life of the ECG. Please bear in mind the ambient temperatures of the luminaires.

### 7.1.3 Dimmable electronic ballasts

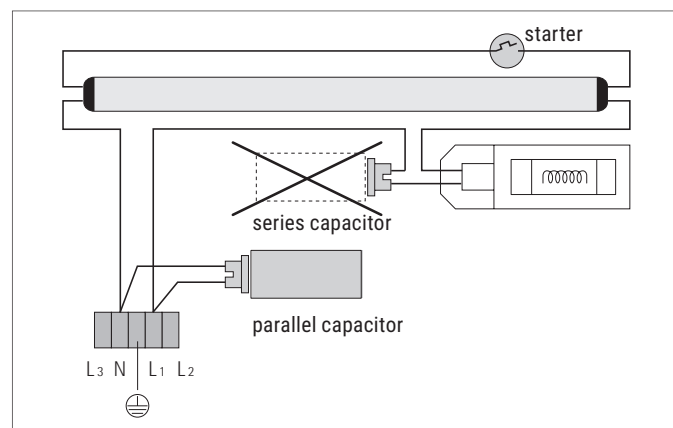
Controllable or daylight-dependent switching with dimmable electronic ballasts increases the convenience of a lighting system with improved cost efficiency at the same time. The product pages specify versions with DALI interface.

## 7.2 Power factor correction

Inductive luminaires with magnetic ballasts must be equipped with capacitors for power factor correction of idle current. With power factor correction the capacitor is switched parallel to the mains supply.

Lamp type	Parallel capacitor (comp.) 230 V 50 Hz $\mu\text{F} \pm 10\%$
1/58 T8	7,0
2/58 T8	13,5

Because of the coming into effect of the 2000/55/EG ballast directive in 21.05.2002, from that date the bringing to market of power factor corrected luminaires has been made more stringent. Power loss with series power factor correction using conventional ballasts and capacitors does not fulfill the required energy efficiency levels. If required, both parallel capacitors and parallel power factor corrected luminaires can be sourced from Regiolux.



Connection of the parallel capacitor must only be carried out according to this circuit diagram. With non-observance of this stipulation damage to luminaires may occur.

### 7.3 Lamp start

With magnetic ballast, ignition of fluorescent lamps occurs via interaction between the ballast and starter. This start is not flicker-free, i.e. several ignition attempts are required. With lamp operation using electronic ballasts on the other hand, the start procedure is without flicker.

Cold start and warm start ECG is differentiated between. Warm start control gear has preheating of the lamp electrodes, thus enabling a soft start procedure for the lamps. Cold start devices without preheating can be used with low levels of switching activity. Regiolux luminaires with ECG implement warm start devices.

### 7.4 Maximum number of luminaires per circuit

Maximum number of ballasts per circuit with breaker type B												
Fluo rescent lamp	Llb				HF							
	single-lamp inductive 0,5		twin-lamp inductive 0,5		single-lamp		twin-lamp		three-lamp		four-lamp	
	10 A	16 A	10 A	16 A	10 A	16 A	10 A	16 A	10 A	16 A	10 A	16 A
T8 18 W	27	43	23	37	23	41	15	28	17	28	17	28
T8 36 W	23	37	11	18	16	35	10	20				
T8 58 W	15	24	7	12	16	28	7	13				
T5 14 W					17	28	17	28	16	25	12	19
T5 21 W					17	28	13	20				
T5 24 W					24	38	14	22				
T5 28 W					17	28	12	19				
T5 35 W					17	28	9	14				
T5 39 W					16	26	8	13				
T5 49 W					13	20	6	10				
T5 54 W					12	19	6	10				
T5 80 W					8	13	5	9				

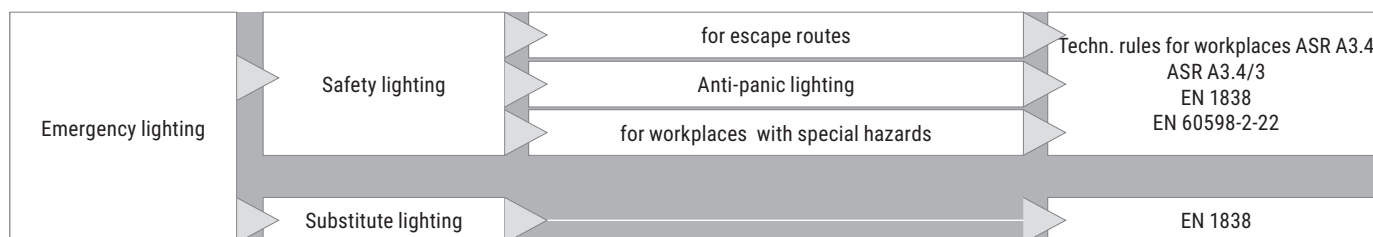
When securing luminaires, you have to pay attention to the total rated current for the ballasts of the group and the length, cross-sectional area and type of installation of the cable in addition to the starting current. The number of ballasts indicated in the table requires a simultaneous switching on. The values in the table are valid for 1-pole automatic circuitbreakers. In case of using multi-pole automatic circuitbreakers, the number of ballast must be reduced by 20%.

The maximum permissible number of LED luminaires differs according to manufacturer and type of electronic driver. The quantity for the specific LED luminaire type is available on request. The number of drivers per luminaire is specified on the respective product page. The corresponding technical data is provided on request. Driver-specific installation instructions, for example for 2 group switching, are documented in the assembly instructions of the luminaire.

### 7.5 Emergency light

Requirements of emergency power supply systems for emergency lighting.

Demands on the safety lighting following EN 60598-2-22					
Demands	a) Meetingrooms, business offices	b) Meetingrooms, with max. 20 safety luminaires	c) Hotels and inns, multi-story buildings, schools	d) Escape routes in workplaces	e) Workplaces with special hazards
Minimum illuminance power 1 lux		1 lux	1 lux	1 lux	10 % to En - E min. = 15 lx
Switchover	max. 1 s	max. 1 s	max. 15 s	max. 15 s	max. 0,5 s
Nominal operating duration of the subst. power sources	3 h	3 h	3 h	1 h	> 1/60 h
Permissible substitute power sources	Central battery, group battery with or without inverter rapid/immediate stand by generator	Central battery, group battery with or without inverter rapid/immediate stand by generator, individual batteries	Central battery, group battery with or without inverter rapid/immediate stand by generator, individual batteries, substitute generator	Central battery, group battery with or without inverter rapid/immediate stand by generator, individual batteries, specially secured mains	

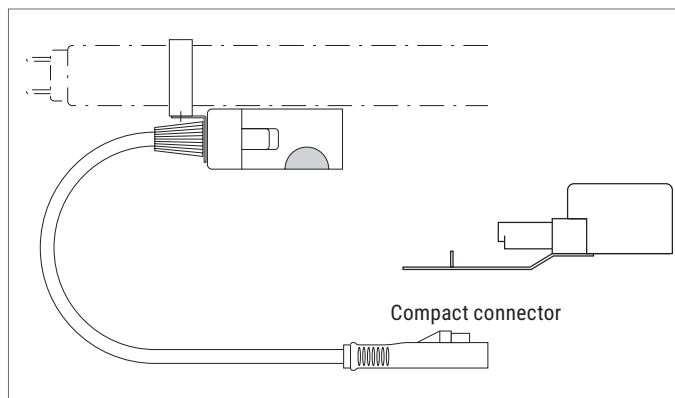




# 7. Ballasts / electric technic

## 7.5.1 E14 emergency light unit for horizontal mounting position

The unit is attached to T8 fluorescent lamps with a diameter of 26 mm. Only E14 lamps with a maximum outer diameter of 25 mm and a power consumption of 25 watt can be used. These cannot be used with luminaires with compact fluorescent lamps. The emergency light unit consists of the E14 lampholder with lamp clip and connection cable with socket for connection of the compact plug connection. With surface-mounted louvre and diffuser luminaires the plug connection is attached inside the luminaire housing and with recessed luminaires attachment is outside of the housing.



### Emergency lampholder E 14 at T8 lamp

Suspended louvre luminaires

RSXAIC	RSADIC	RMAIC
--------	--------	-------

Surface mounted louvre luminaires

RMA	RSAA	RSAD	RSXA
RSADC	RSXAC		

Surface mounted diffuser luminaires

KLKF	KLPF
------	------

Sport hall luminaires

THLA	THLE
------	------

Luminaires with higher degrees of protection

PA 2 lamp	PC 2 lamp
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Recessed louvre luminaires



UESX

UED

UEM



RSXE/RSXEA

RSED

RME



RSXE-VA

RSED-VA

RME-VA



RSXEP

RMEP

## 7.5.2 Emergency light element with single battery

In many applications, emergency lighting integrated into standard lighting is required. The emergency light element and battery are built into the luminaire in addition to the normal igniting system. With mains failure the lamp operation continues via the battery with reduced wattage. For charging of the battery and switching of the emergency light, a continuous phase must be connected to the luminaire in addition to the switching wire. The ballast lumen factor BLF specifies the proportion of luminous flux of the lamp with battery operation in relation to luminous flux with a rated voltage of 230 V. With multi-lamp luminaires, only one lamp is operated in emergency cases. The BLF values for specific luminaires are available on request.

## 7.5.3 Switching inverter for ECG for switching from mains to emergency operation

Electronic ballasts can be operated with both alternating and direct current and are therefore highly suitable for mains and emergency lighting. Switching from mains operation to emergency operation can be implemented via a switch inverter integrated in the luminaire.

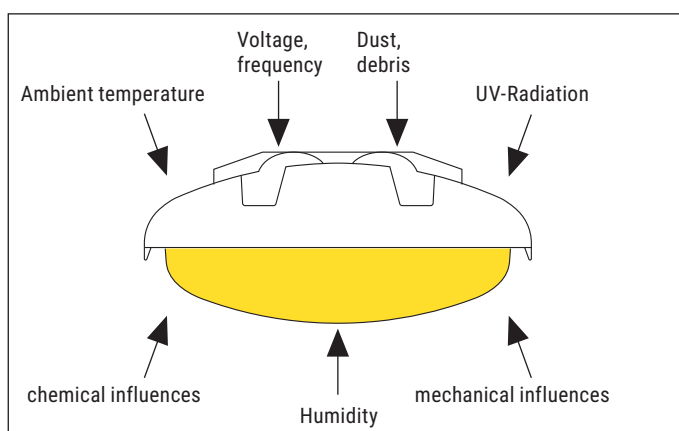
# 8. Luminaires

## 8.1 Proper use

Regiolux luminaires may only be equipped with light sources specified on the identification plate and in the approval certificates. Use of other lamps as well as LED and T5 adapters does not constitute proper use according to intentions and may lead to functional impairment and danger. As a part of our legal product monitoring obligation in accordance with Paragraph 6 Section 4 of the German Product Safety Act (ProdSG) we explicitly refer to these dangers. In the event of damage, legal problems can be expected.

## 8.2 Special operating conditions

Luminaires are subject to a number of external influences. Under certain circumstances, this can mean harsher operating conditions for luminaires which have an effect e.g. on the service life of the luminaires and lamps. Such effects may result in warranty limitations and even loss. The manufacturer should be asked directly about the effects of such special operating conditions on the luminaires. The following represents a short overview with selected examples.



### 8.2.1 Mains power supply

Regiolux luminaires are designed for a sinusoidal alternating voltage of 230 V and 50 Hz (see fig. 8.6.). In other cases (e.g. foreign countries), ballasts must be adapted to the actual values of the supply voltage. For this reason the existing network construction and its values/tolerances must be regarded. This also applies to network deficiencies. In particular, overvoltage may lead to damage of the components in extreme cases. Sources of interference must be eliminated, if necessary together with the power supply company.

### 8.2.2 Electromagnetic compatibility

Electromagnetic compatibility (EMC) is defined by both interference immunity of the luminaires against external disturbance factors and emitted interference to external systems. Various standards define corresponding limitation values. Despite conformity to these limitation values, in particular cases disturbances may occasionally occur (e.g. radio transmission). In such cases, interference immunity of the electrical devices should be inspected. Possible actions for avoidance of disturbances are increasing the distance between the luminaire and electrical device or modification of the wave band for signal transmission.

### 8.2.3 Ambient temperature

Regiolux luminaires are designed for an ambient temperature of 25° C (see fig. 8.6.). If in practice the ambient temperature strongly differs (e.g. for cold stores or workshops with process heat), we should be contacted for specifying to what extent the selected luminaires can be approved for the corresponding temperature conditions. In particular, operation under higher ambient temperatures may lead to malfunctioning of e.g. the electronic ballast (see fig. 7.1.2.). In this case special luminaires may be required

## 8.2.4 Chemical influences

Environments with particular chemical substances in the atmosphere can have a range of effects on lamps, luminaires and lighting systems.

### 8.2.4.1 Resistances of plastics

The resistance table gives an overview of the chemical stability of the most important plastics used for luminaire construction. Specifications for chemical resistance are related to an ambient temperature of approx. 22° C.

Clearing agents	PMMA	PC
Scouring agent	resistant	resistant
All-purpose glue	resistant	partially resistant
All-purpose cleaning agent	resistant	resistant
Mild detergent	resistant	resistant
Hair setting lotion	resistant	resistant
Nail polish/-remover	not resistant	not resistant
Perchloroethylene	not resistant	not resistant
Detergent	resistant	partially resistant
Cleaning agent for acrylic glass	resistant	resistant
Pril washing-up liquid	resistant	resistant
Cleaning agent for glass	not resistant	resistant
Silicone oil	resistant	resistant
Washing-up liquid	partially resistant	resistant
Special-purpose cleaning agent Tri	not resistant	not resistant

For cleaning of the diffuser/housing it is recommended to use a weak solution of the suitable agent. Limited use of chemical cleaning agents is allowed.

### 8.2.4.2 Resistances of electronic components and LED

Under certain circumstances, chemicals may also have an influence on electronic components, circuit boards and LED. For example, luminaires with electronic components and PCBs can be damaged due to increased concentrations of ammonia in the atmosphere.

LED can also be sensitive to chemical influences. For example, atmospheres with an increased proportion of sulphur compounds or chlorides are considered critical and can result in occlusions, discolorations and reduction of the service life.

## 8.2.5 Recessed luminaires

A precondition for the installation of our luminaires is that the ceiling construction is able to take up the weight of the luminaires and is also suitable for their accommodation.

## 8.2.6 Noise

Please note that luminaires can be incited by sound waves to emit resonance. Furthermore, noises caused by lamp and ballast operation can be emitted by luminaires, and in addition thermal expansion until maximal level may cause noise. If luminaires are to be deployed in areas of noise sensibility (recording studios, rehearsal rooms, sacral areas etc.), we request that you contact us in this matter.

## 8. Luminaires

Chemical substance	Polyester	Acrylic glass (diffusor PMMA)	Polycarbonate (diffusor/housing PC)
Acetone	not resistant	not resistant	not resistant
Aliphatic hydrocarbons	partially resistant	partially resistant	resistant
Alcohol up to 30 %	resistant	resistant	resistant
Alcohol concentrated	partially resistant	not resistant	not resistant
Ammonia 25 %	not resistant	resistant	not resistant
Accumulator acid	resistant	resistant	resistant
Aniline	not resistant	not resistant	not resistant
Aromatic hydrocarbons	partially resistant	not resistant	not resistant
Ether	partially resistant	not resistant	not resistant
Ethyl acetate	not resistant	not resistant	not resistant
Benzene	resistant	resistant	resistant
Benzole	not resistant	not resistant	not resistant
Beer	resistant	resistant	resistant
Blood	resistant	resistant	resistant
Bromine acid	not resistant	not resistant	not resistant
Chloroform	not resistant	not resistant	not resistant
Chlorophenol	not resistant	not resistant	not resistant
Diesel oil, crude oil	resistant	resistant	partially resistant
Dioxane	resistant	not resistant	not resistant
Acetic acid up to 5 %	resistant	partially resistant	resistant
Acetic acid up to 30 %	resistant	not resistant	partially resistant
Glycerine	resistant	resistant	partially resistant
Glycol	resistant	resistant	resistant
Glycantine	resistant	resistant	resistant
Carbon dioxide	resistant	resistant	resistant
Carbon monoxide	resistant	resistant	resistant
Lime water	resistant	resistant	partially resistant
Saline	resistant	resistant	resistant
Ketone	not resistant	not resistant	not resistant
Lysol	not resistant	not resistant	not resistant
Sea water	resistant	resistant	resistant
Methylene chloride	not resistant	not resistant	not resistant
Methyl alcohol	not resistant	not resistant	not resistant
Metal salts and their watery solutions	resistant	resistant	resistant
Sodium hydroxide 2 %	partially resistant	resistant	not resistant
Sodium hydroxide 10 %	not resistant	resistant	not resistant
Petroleum ether	resistant	resistant	partially resistant
Pyridine	not resistant	not resistant	not resistant
Phenol	not resistant	not resistant	not resistant
Nitric acid up to 10 %	resistant	resistant	resistant
Nitric acid 10 to 20 %	partially resistant	partially resistant	partially resistant
Nitric acid over 20 %	not resistant	not resistant	not resistant
Hydrochloric acid up to 20 %	resistant	resistant	resistant
Hydrochloric acid over 20 %	resistant	resistant	partially resistant
Sulphuric acid up to 50 %	resistant	resistant	resistant
Sulphuric acid up to 70 %	resistant	partially resistant	partially resistant
Sulphuric acid over 70 %	not resistant	not resistant	not resistant
Sulphurous acid up to 5 %	partially resistant	partially resistant	not resistant
Hydrogen sulphide	resistant	resistant	resistant
Soapsuds	resistant	resistant	resistant
Soda	resistant	resistant	resistant
Synth. suds	resistant	resistant	partially resistant
Oil of turpentine	resistant	partially resistant	partially resistant
Carbon tetrachloride	resistant	not resistant	not resistant
Water up to 60 °C	resistant	resistant	resistant
Hydrogen peroxide up to 40 %	not resistant	not resistant	partially resistant
Hydrogen peroxide over 40 %	not resistant	partially resistant	partially resistant
Xylene	not resistant	not resistant	not resistant

## 8.3 Luminaire optics and their applications

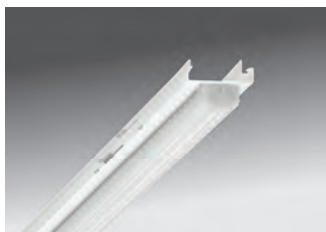
### 8.3.1 Individual.Lens.Optic

In the combination of LED and spot lens, the effective area of the lens is only located over the LED light points themselves and not over the entire circuit board. Spot lenses made of PMMA (acrylic glass) have a special, light technology calculated structure whereby the light is focused, emitted and distributed. Spot lenses deliver a particularly efficient form of light control with a high degree of efficiency and optimised all-round glare control. The light distribution can be wide, narrow and extremely narrow (high-bay warehouse aisle lighting). A double asymmetrical light distribution curve is also possible. The latter is preferred in sales rooms such as discount stores or specialist markets and using vertical lighting levels it allows goods to be selectively illuminated from both sides of the sales aisles. Industrial applications of the symmetrically distributing spot lens luminaires can be found in factory halls and warehouses. The LED is maintained as a visible light point in the appearance of the luminaire.



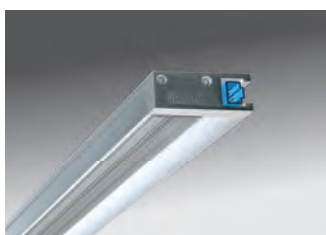
### 8.3.2 Linear.Lens.Optic

This type of lens made of PMMA (acrylic glass) is the preference for light technology of linear LED modules. Linear lenses have a special, light technology calculated structure whereby the light is focused, emitted and distributed. Linear lenses deliver a particularly efficient form of light control with a high degree of efficiency. The light distribution can be wide, narrow and extremely narrow (high-bay warehouse aisle lighting). A double asymmetrical light distribution curve is also possible. The latter is preferred in sales rooms such as discount stores or specialist markets and using vertical lighting levels it allows goods to be selectively illuminated from both sides of the sales aisles. Industrial applications of the symmetrically distributing linear lens luminaires can be found in factory halls and warehouses. The appearance of the linear lens is perceived as a light line.



### 8.3.3 Fresnel lens

This lens is characterised by a special design with a grooved structure. Developed as a linear lens, the design is reduced to a pane made of PMMA (acrylic glass) calculated by light technology and is used in LED luminaires among other things. The light is bundled and focused via different angles of refraction, whereby asymmetrical distributions are also possible. This is used for example for furniture luminaires for cove lighting or for lighting of vertical areas.



### 8.3.4 Microprismatic pane

This high quality plastic pane made of PMMA (acrylic glass) has light technology calculated pyramid prisms. This pane is characterised by homogeneous light distribution and excellent glare limitation, and is also appropriate for the illumination of VDU workstations with a light density threshold <math>< 3000 \text{ cd/m}^2</math>. In combination with LED, the individual LED light spots remain visible and the luminaire is also perceived as LED luminaire when switched on.



### 8.3.5 Diffusers

Diffusers can be designed either as panes or in a tub shape. PMMA (acrylic glass) or polycarbonate are used as materials; in harsher industrial applications the panes can also be made of single-pane safety glass. The optics are categorised as clear, clear with a prismatic structure, iced (satin) and opal. The light technology of the covers differs in terms of the degree of transmission and also in the efficiency level. Especially iced and opal designs provide a calm and unifying finish to the luminaires. For example, quadratic recessed luminaires have an effect of roof lighting. Angular diffusers have lit side sections and in this way generate an indirect proportion for modest ceiling illumination. Example applications are administration rooms without screens, classrooms, sales rooms and industry.



### 8.3.6 Louvre

Luminaire louvres are composed of metal components and consist of louvre side sections and transverse lamellars. The side sections influence the light distribution of a luminaire depending on their shape and ensure transverse glare control, while the lamellars are primarily used to control longitudinal glare. High quality louvres are made of parabolic aluminium louvre elements, whereby the surface is anodised as either highly reflective or silk matt. Special designs such as the micro louvre with low transverse lamellars allow very flat luminaires and they have a supplementary reflection enhancing silver coating. The high degree of efficiency that is therefore possible combined with exact glare limitation produces a very comfortable level of lighting for vision, for example for VDU workstations. The luminance above the threshold emission angle of  $65^\circ$  is therefore reduced to  $< 1000 \text{ cd/m}^2$ . Disruptive reflections on screens are avoided. Other application areas are representative spaces such as meeting rooms, conference rooms and reception areas. Specular louvre luminaires can also asymmetrically radiate light and illuminate vertical surfaces such as blackboards or presentation surfaces - if necessary with asymmetrically arranged lamp positions. Simple louvre versions with white surfaces are used in spaces with lower light technology requirements, for example in corridors and waiting areas.



## Further information

in theme catalogue  
„Light solutions -  
for beverage and food industry“





# 8. Luminaires

## 8.4 Maintenance

In order to maintain light output ratios, regular cleaning of luminaires is intended and makes sense. Lighting technology often features high-grade optical surfaces and must therefore be handled very carefully. Both mechanical loads (wiping, rubbing etc.) as well as the use of unsuitable cleaning agents must be avoided, as both can lead to impairment or even destruction of the optical characteristics of surfaces (see figure 8.1.7). Residues of cleaning agents may furthermore cause smudges and streaks that might negatively effect light control. We would be glad to give you detailed information concerning the proper cleaning of luminaires.

## 8.5 Special luminaires and modifications

Special versions with electrical or mechanical modifications as well as special coatings in accordance with RAL colours can be supplied at extra cost following assessment of feasibility. Customized luminaires undergo the same inspections at Regiolux as standard luminaires.

## 8.6 Certification, insulation class and protection rating

All Regiolux luminaires are manufactured according to approved technical standards and 100% electrically tested. The luminaires are designed as standard for 230 V, 50 Hz and an ambient temperature of 25° C, and satisfy European norms and directives, including ENEC provisions in relation to safety, electromagnetic compatibility and energy efficiency.

### Test symbols

The information in regard to test symbols in this catalogue can only be a snapshot of the current state. Please refer to our web site for current product specifications.



The ⚡-symbol is the European safety symbol for luminaires. The testing regulations are specified in DIN EN 60598. The ⚡-symbol is issued in combination with the identification number of a European test center (VDE = 10). This documents that the luminaires have been built and tested „in conformity with the standards“ as per the Low-voltage Directive 2006/95/EG.



All luminaires meet the ▽F-conditions. In the event of faulty luminaire the fastening surfaces will not be hotter than 180° C. They may be mounted on inflammable building materials as described in DIN 4102 with an ignition point of at least 200° C (e.g. wood). Observe the installation instructions in order to avoid incorrect installation.



Identification for thermally insulated ceilings. Luminaires may be directly covered with insulating material.



EN 60598-2-24 requires that luminaires must be designated with the ▽D-symbol in production areas where dust and/or fibres pose a fire hazard and must at least fulfill protection rating IP50. Installation instructions must be observed during mounting.



Luminaires with the ▽M-symbol are intended for surface-mounted and recessed installation in furniture. They are constructed so that in the case of luminaire failure, normal or low-flammability materials cannot be ignited according to VDE 0710 Section 14. In order to avoid incorrect installation, installation instructions must be observed.



Luminaires with the ▽▽-symbol are intended for surface-mounted and recessed installation in furniture. They are constructed so that in the case of luminaire failure, materials with inflammability characteristics not recognised by VDE 0710 Section 14 cannot be ignited. In order to avoid incorrect installation, installation instructions must be observed.



Luminaires with impact resistance specifications are tested by us with impact apparatus according to IEC 60068-2-75; the specified Nm/J value corresponds to mechanical strength according to EN 60598-1-4.13.



Luminaires with this symbol correspond to EN 60598-1 standard conditions for the temperature specified by this symbol. Testing is carried out according to IEC 60695-11-5 (needle-flame test) or IEC 60695-2-10 (glow-wire flammability index).



Ball-impact-resistant luminaires following DIN 18032 Part 3 und VDE 0710 Part 13.



Luminaire optimally adapted to tennis as per DIN 67526.



The CE-designation is applied by the manufacturer. The manufacturer on its own responsibility thus confirms conformity with the corresponding EU guidelines. Conformity according to the 2006/95/EG "low voltage regulation", the 2004/108/EG "EMC regulation" (interference immunity, emitted interference) and energy efficiency (2005/32/EG and EG 245/2009 directives) are the preconditions for CE-designation for our products.



With this symbol, the suitability of luminaires for computer workstations according to DIN EN 12464-1 is specified. The degree number means that the luminance in all luminaire planes beyond that angle does not exceed certain limitation values. Depending on screen quality and screen visualisation, the norm specifies different limitation values.



Generally, the luminaires are suitable to be used in companies of the food and beverage industry certified according to IFS version 6 and /or BRC Global Standard Food version 6.




The luminaires are quipped with tunable white technology and thereby allow for a dynamic progression of the light colour as well as of the lighting level in conjunction with a corresponding control system. This can be used to simulate the natural progression of daylight as part of a Human Centric Lighting solution.



Luminaires with this mark have been tested in regard to particle emissions and colony forming units (CFU) and certified for use in clean rooms by the Fraunhofer-Institut IPA.



Luminaires with this mark have been developed based on conclusions drawn from the testing of luminaires , but have not been specially certified by the Fraunhofer-Institut IPA.

## Protection classes



Luminaires with the indoor symbol in accordance with IEC 60417-5957 are only suitable and approved for the use in buildings.



Luminaires of protection class I must be connected to a protective conductor.



Luminaires of protection class II are shock-proof and therefore a PE terminal is not authorized.



Luminaires with insulation class III are approved for operation with safety extra low voltage < 50V (effective).

## IP degrees of protection according to the first reference number

1st ref.-No.	Short description	Short details which foreign bodies cannot ingress the housing
0	Unprotected	No special protection.
1	Protected against the ingress of foreign solid bodies larger than 50 mm	Great body surface, e.g. a hand (however no protection against intentional contact), foreign solid bodies.
2	Protected against the ingress of foreign solid bodies larger than 12 mm	Finger or similar up to 80 mm length; foreign solid bodies greater than 12 mm diameter.
3	Protected against the ingress of foreign solid bodies larger than 2.5 mm	Tools, wires etc. with a diameter or a thickness greater than 2.5 mm; foreign solid bodies greater than 2.5 mm diameter.
4	Protected against the ingress of foreign solid bodies larger than 1 mm	Wires or strips thicker than 1 mm; foreign solid bodies greater than 1 mm diameter.
5	Dustproof	Ingress of dust is not completely prevented, however, dust must not penetrate in such quantities that a proper operation of the device is impaired.
6	Dust tight	No penetration of dust.

## IP degrees of protection according to the second reference number

2nd ref.-No.	Short description	Details of protective measures through the housing
0	Unprotected	No special protection.
1	Protected against dripping water	Dripping water (vertically falling drops) shall have no harmful effects.
2	Protected against dripping water up to 15°	Vertically falling drops shall have no detrimental effect, if the housing is inclined up to 15° from its original operation position.
3	Protected against spraying water	Water falling as a spray at an angle of up to 60° from the vertical shall have no detrimental effect against the vertical position.
4	Protected against splashing water	Water splashed against the housing from any direction shall have no detrimental effect.
5	Protected against water jets	Water projected by a nozzle against the housing from any direction shall have no detrimental effect.
6	Protected against heavy seas	Water from heavy seas or water jet under high pressure shall not penetrate the housing in harmful quantities.
7	Protected against the effects of immersion	Ingress of water in harmful quantities shall not be possible when the housing is immersed in water under defined conditions with regard to pressure and time.
8	Protected against immersion	The device is suitable for permanent immersion in water; the conditions are to be indicated by the manufacturer. Note: In general, this signifies that the device is completely sealed; however, this may signify with specific devices that water penetrates but has no detrimental effects.

## 9. Notes on disposal

### 9.1 EU WEEE directive

The Europe-wide directive for the disposal of electrical devices (WEEE) and the connected directive for concentration of hazardous substances (RoHS) are applied in all countries of the European Union via corresponding legislature. The WEEE intends the designation of all devices affected by the directive (this includes luminaires) with a uniform symbol (a crossed-out dustbin). A black bar below also symbolises that the product began being manufactured after the directive came into force. In order to be able to trace manufacturers or importers after several years, all such companies must register themselves with a national register and designate products with company or brand names. In order that the customer may determine whether a manufacturer has registered, the company must specify its registration number on its business documents (tenders, order confirmations, delivery notes and invoices). All further details are determined by national legislature.

### 9.2 WEEE Germany (ElektroG)

According to German law, luminaires from private households are expressly excluded from the legislation. The same is valid for applications with disposal in usual household quantities (e.g. freelancers). For luminaires with professional use (B to B), and with corresponding quantities, each manufacturer or importer must make available a suitable network of disposal points and ensure correct disposal in accordance with valid recycling quotas. This specifically means that for all devices bearing the, crossed-out dustbin sign the manufacturer must bear costs for disposal from the collection point. Products not yet bearing the crossed-out dustbin are excluded from the directive and may only be sold if they have been produced before the deadline date (13.08.2005). A return or subsequent designation of such products is not envisaged by the legislator. In order to ensure that no manufacturer shirks his duty in this regard, all manufacturers are liable to register themselves in a national register for every market. The Regiolux WEEE registry number for Germany is DE 43389031.

### 9.3 EU Directive 94/62/EC

#### 94/62/EG Deutschland Packaging Regulation

Return and utilisation of packaging materials has been regulated by us with a framework contract with Interseroh. Mainly packaging from electrical wholesale companies, the electrical trade and electrical retail trade and their construction sites are disposed of. The Interseroh manufacturer number is 80019.

The following are deemed packaging materials:

1. Corrugated cardboard, cardboard, paper
2. PE stretch foil, plastic winding material
3. Wood and pallets
4. EPS (Styropor)

Packaging materials from suppliers that participate in the Interseroh process are collected and disposed off according to material on the customer side for free. The return and transport to the acceptance location is free of shipping and postal charges for the manufacturer. With return, the last owner forsakes all rights to the packaging materials.

More information about disposal:

ISD INTERSEROH Dienstleistungs GmbH  
Stollwerckstraße 9a  
D-51149 Köln  
T +49 2203 9147 0  
F +49 2203 9147 394  
www.interseroh-isd.de  
info@interseroh.de

### 94/62/EG International

In relation to legislative requirements and their implementation in other EU countries, please contact the responsible importer.

### 9.4 The European RoHS directive

The directive 2002/95/EC was replaced by the directive 2011/65/EU (RoHS2) on January 03, 2013.

The European directive for concentration of hazardous substances (RoHS) in electrical and electronic devices is implemented in all European Union countries by corresponding national legislation.

Regiolux works on the basis of this directive and has involved its suppliers accordingly.

If there are changes with regard to the directive 2011/65/EC, due to new information or new investigations, we will of course immediately inform you within the scope of our business relationship.

## Terms of business

### 1. General terms and conditions

1.1 These conditions shall exclusively apply to all present and future business relationships with resellers or commercial buyers (purchasers) in terms of § 14 German Civil Code (BGB). Different or supplementary terms and conditions of the purchaser as well as ancillary agreements are only binding if they are confirmed in writing by Regiolux GmbH (supplier).

1.2 Quotation of prices and services are only binding for the supplier, if they were confirmed by him or a delivery was made. Any other declarations and approvals must be made in writing to be binding.

### 2. Offer and acceptance of Orders

2.1 Offers contained in brochures, advertisements, Internet pages etc. are subject to change and not binding, even with regard to price quotations. Individual offers made in writing by the supplier shall be ineffective at the latest 90 days after date of the offer, insofar as no acceptance was made.

2.2 If incoming orders arriving at the supplier are not confirmed in writing or implemented within one month after their receipt, the purchaser is entitled to withdraw the order without any claims for damages whatsoever to be asserted against the supplier.

2.3 We will invoice a reduced-quantity surcharge of 25 euros if the net order value is less than 250 euros.

### 3. Prices

3.1 The prices are calculated in Euro exclusive of VAT, which is invoiced separately according to the rate valid rate. The prices are calculated according to the prices valid at date of contract conclusion. If the delivery is made more than 4 months after contract conclusion, the prices valid at date of delivery can be invoiced.

3.2 The prices apply, unless other agreements are made in writing, within the Federal Republic of Germany ex works including original packing which is not taken back on the account of an agreement of the supplier with Interseroh GmbH.

3.3 The non-private purchaser undertakes to guarantee the disposal of the delivered products according to the provisions of the ordinance on the disposal of electrical and electronic equipment. In case of resale the purchaser shall assign these obligations to his contract partner.

### 4. Terms of payment

4.1 Insofar as nothing else is agreed upon, all payments must generally be made within 30 days following invoice date. They can, upon option of the supplier, be offset against other, still outstanding claims. A discount of 2 % shall be granted by the supplier for payments that arrive with the supplier within 8 days following the invoicing date. Checks may be accepted for the purpose of payments.

4.2 The purchaser's right of retention, as far as it is not based on the same contractual relationship, and the offsetting with contested or not legally determined claims is excluded.

4.3 If the purchaser is in default of payment as a whole or a part, he is bound – notwithstanding all other rights of the supplier – to pay from that point of time on default interests to the amount of 8 % annually above the base lending rate.

4.4 If the purchaser ceases payments or if bankruptcy is filed or mature checks or bills of exchange are not redeemed, all claims made by the supplier are immediately due.

### 5. Reservation of title

5.1 The supplier retains title of the goods until the complete payment of all claims resulting from a current business relationship. A pledge or chattel mortgage of the reserved goods is not permissible.

5.2 In the case of the permissible resale of the reserved goods within the ordinary course of business, the purchaser assigns already now to the supplier, until payment of all claims of the supplier, as collateral for its future claims towards his customers resulting of such resale without requiring any specific further explanations. This assignment also covers balance claims resulting from existing current account relationships or at their termination of the purchaser with its customers. If the reserved goods are sold together with other goods without agreeing upon an individual price for the reserved goods, the purchaser assigns to the supplier the priority over the other claims for such part of the total price claimed which corresponds to the value invoiced by the supplier. Until revoked, the purchaser is authorized to collect the assigned demands from the resale, he is not entitled to dispose of them otherwise, e.g. by assignment. Upon request of the supplier the purchaser must inform the customer about the assignment and to furnish the supplier the necessary documents for the assertion of his rights towards the customer, e.g. to deliver invoices and to provide the required details.



**5.3** If the purchaser does not meet all or a part of his payment obligations within 10 days after due date, if he does not cash due checks or if an application for insolvency is filed, the supplier has the right to withdraw from the contract and to require the return of the goods. The purchaser is obliged to procure the supplier with the possession of the goods. The purchaser grants to the supplier or any authorized representative of the supplier the access to all business premises during business hours. The supplier is entitled to use the reserved goods with the diligence of a prudent businessman and to satisfy himself with the offsetting of open claims with their proceeds.

**5.4** If the value of the security exceeds the claims of the suppliers towards the purchaser resulting from the current business relationship to more than 20 % in entirety, the supplier is obliged, when requested by the purchaser, to release securities it is entitled to according to choice.

## 6. Delivery

**6.1** The delivery shall be made for a net order value of more than 1,200 Euro: free loading area ship-to address within Germany.

**6.2** Delivery terms are only binding if they have been expressly confirmed by the supplier as being binding.

**6.3** The delivery period begins with the date of written agreement about the order between purchaser and supplier. The delivery term is respected if the goods have departed the warehouse within this period. If delivery or handling is delayed for reasons for which the supplier cannot be held responsible, the delivery period is deemed as met if notification that goods are ready for dispatch is made within the agreed delivery period.

**6.4** If it has been proved that the non-compliance of the delivery period is due to mobilization, war, riot, strike, lockout or the occurrence of other unexpected events which are beyond control of the supplier or its sub-contractors, the delivery time is prolonged correspondingly.

**6.5** If the supplier is in default of delivery, the purchaser may claim a compensation for default of 0.5 % for each accomplished week of default, amounting to a total of 5 % of the value of the goods delivered too late. Any other claims for damages are excluded in all cases of late delivery, even after expiration of any grace period granted to the supplier. Within the scope of the legal provisions, the purchaser may only withdraw from the contract, insofar as the supplier is responsible for delay in delivery.

**6.6** The purchaser is obliged, upon request of the supplier, to declare within a reasonable term whether he withdraws from the contract because of delay in delivery and/or whether he claims damages instead of the performance or insists on delivery.

**6.7** If the purchaser causes delay in shipment or delivery of the goods, the supplier is entitled to invoice him for any incurring additional costs.

**6.8** Partial deliveries are permissible, unless justified interests of the purchaser are opposed to them.

## 7. Shipment

The risk is passed to the purchaser upon handing over of the goods to the forwarding agent or the haulage contractor, regardless of who pays the costs of the delivery. If the purchaser requires, we will arrange for transport insurance; any costs arising from this are borne by the purchaser. Transport breakage is not replaced if breakage insurance is refused.

## 8. Acceptance

**8.1** The purchaser shall specify to the supplier the name(s) of one or several person(s) who is/are authorized to accept the delivery and sign the delivery note in due time prior to the delivery date. This applies in particular if the delivery address is not the purchaser's registered office.

**8.2** If none of the persons authorized by the purchaser are present to accept the goods on the agreed date and at the agreed place of delivery, the purchaser is in default of acceptance and the risk passes to him. He shall also pay any additional costs which are incurred in the event that another delivery has to be effected.

**8.3** The purchaser is required to check without delay whether the goods have been damaged during transportation and to immediately inform the carrier and deliverer of any damage or loss. Negligible defects do not justify a refusal of acceptance by the purchaser.

## 9. Returning of goods

If the supplier has no statutory obligation to accept returned goods, the purchaser may only return goods with the supplier's express written consent and provided that they are undamaged and returned in the original packaging. 30 % of the invoiced amount will be deducted from the credit note to cover processing costs. All reworking, freight and packaging costs will be charged to the purchaser. special and recessed luminaires may not be returned.

## 10. Warranty

**10.1** The supplier guarantees against defects in the goods, initially according to his option of either repair or replacement delivery.

**10.2** If repair or replacement fails, the purchaser generally may require according to his option lowering of the payment (reduction) or cancellation of the contract (rescission). In case of only insignificant lack of conformity with the contract, in particular in case of insignificant defects, the customer is not entitled to the right of rescission.

**10.3** The purchaser must notify the supplier concerning any defects within a period of two weeks after receipt of goods, otherwise the assertion of the warranty claim is excluded.

**10.4** If the purchaser chooses after failed subsequent performance to withdraw from the contract, he is not entitled to any additional claim for damages because of the defect.

**10.5** The warranty period amounts to one year from date of the passing of the risk of goods. This shall not apply if the purchaser has not notified us in time concerning the defect.

**10.6** The supplier guarantees for subsequent rectification of defects and replacement of goods to the same extent as for the original goods, namely until expiration of the warranty period applicable.

**10.7** Claims made by the Customer against the Supplier for installation and dis-assembly costs, unless they serve to detect errors, costs of disposal and costs for hoisting devices and scaffolding shall be excluded. The Customer shall bear the costs of the necessary recommissioning, software reinstallations or software updates. Where the Supplier meets its cost absorption obligation pursuant to Article 478 of the German Civil Code with respect to other expenses necessary for supplementary performance, the Supplier shall be entitled to pay such expenses by means of a credit note for goods. A right to compensation for damages to the goods themselves shall be excluded. This shall not apply insofar as liability is imposed by law for example in cases of intent, gross negligence, the lack of assured characteristics or the Product Liability Act.

**10.8** All forms of manipulation to our products and their packaging such as modification, reworking and re-stamping are impermissible and breach our registered trademarks among others. Such modifications may negatively influence the technical properties of our products, destroy them and possibly cause consequential damages to other objects. Regiolux GmbH cannot be held responsible in any way for damages thus caused by such modifications.

## 11. Liability

**11.1** As far as it is not expressly stipulated otherwise in these conditions, the claims against the supplier and any person employed by him in the performance of his obligation and any vicarious agent resulting from damages, including consequential damages, which occur to the purchaser or a third party, in particular such damages resulting from fault at contract conclusion, culpable breach of an obligation and negligent and impermissible actions are excluded.

**11.2** This does not apply, as far as compelling liability is given in case of intent, gross negligence, lack of the guaranteed properties or the Product Liability Act. Furthermore, the limitation on liability shall not apply in case of personal and health injuries ascribed to the supplier and in case of loss of life.

**11.3** The purchaser's claim for damages for defect becomes time-barred after one year from date of the passing of the risk of the goods. This shall not apply if the supplier can be accused of malice.

## 12. Final provisions

The laws of the Federal Republic of Germany shall apply. Hassfurt is exclusive jurisdiction for all litigations. The invalidity of any term of these conditions shall not affect any part of the remaining conditions and the contract itself.

Königsberg, July 2012





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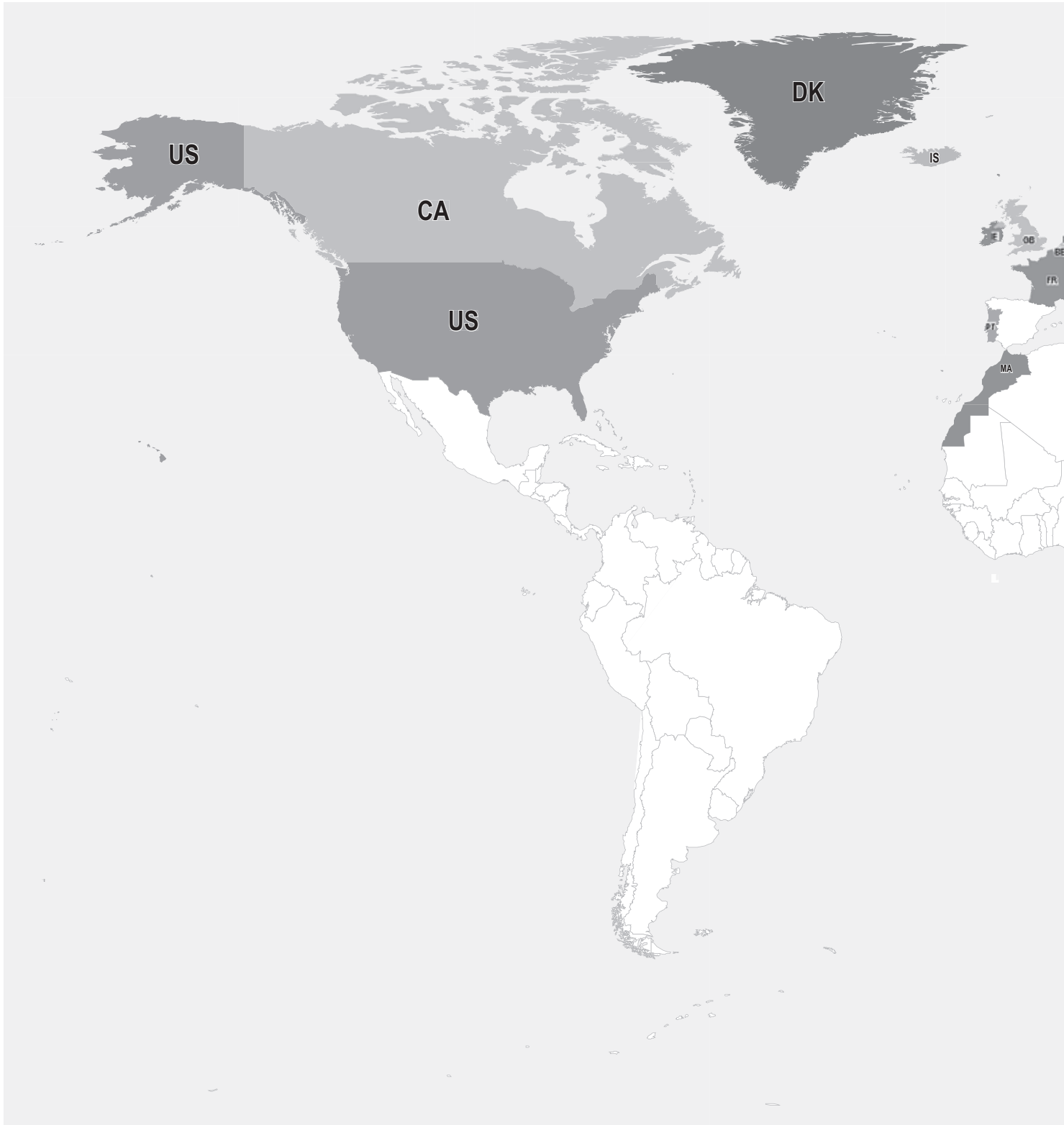
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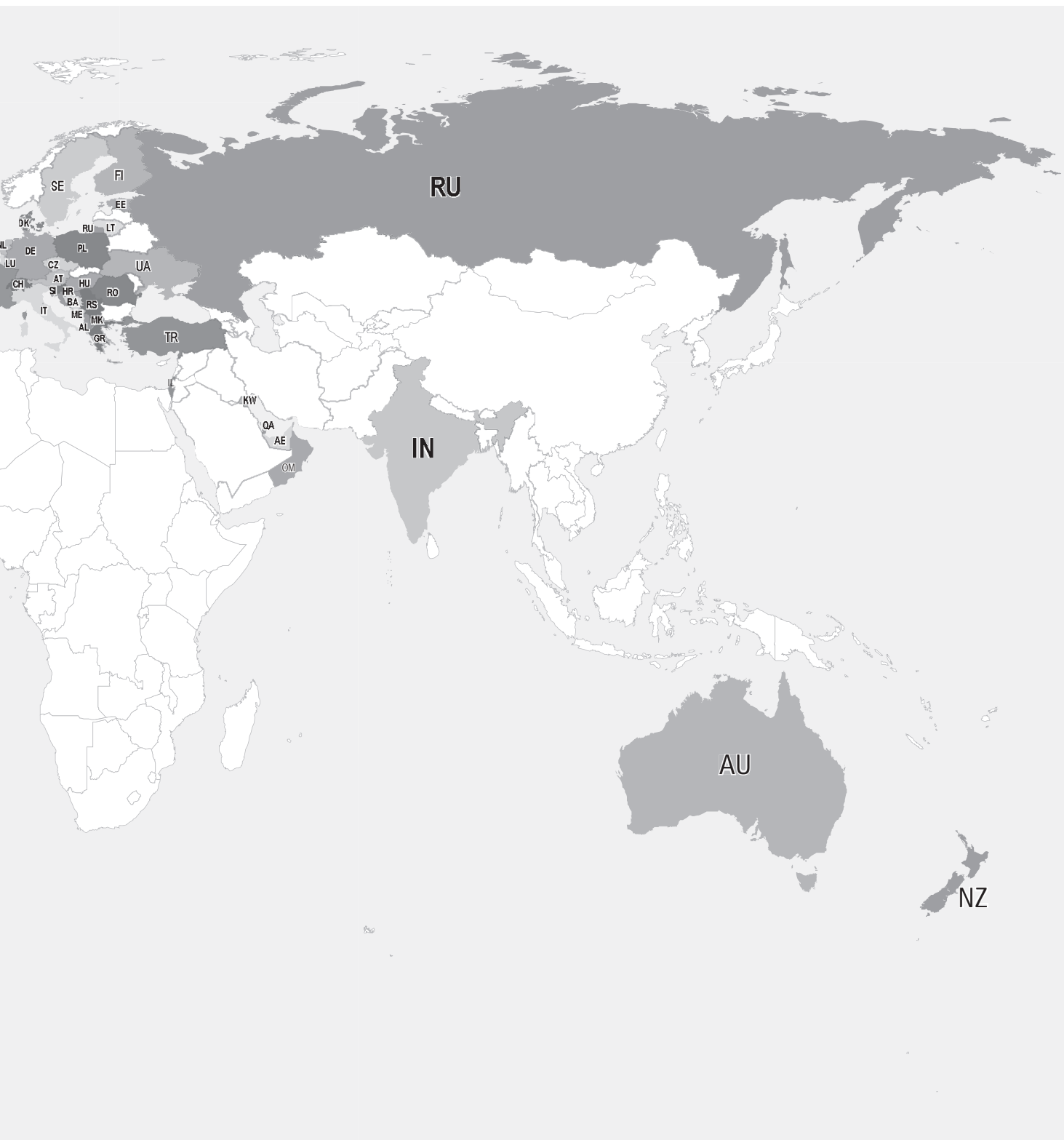
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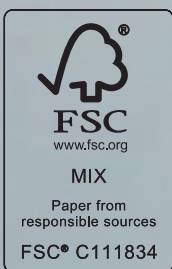
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