



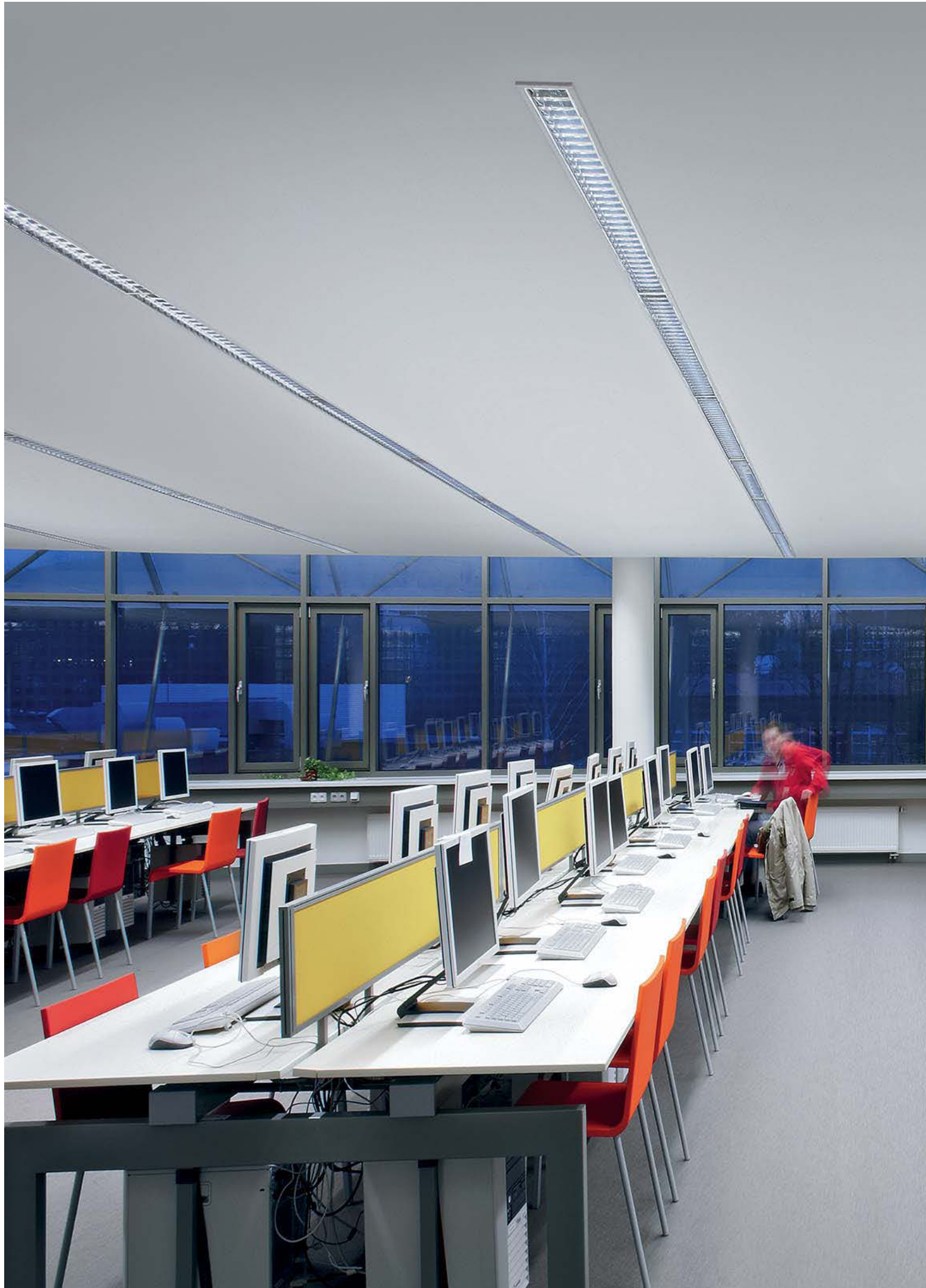
ZUMTOBEL

**MIRAL2
MIREL2**

Recessed, surface-mounted and pendant luminaire

Highly efficient louvre luminaire range with excellent lighting quality.





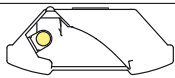




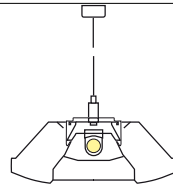
FA 1-lamp



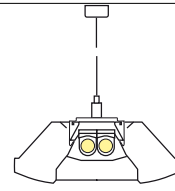
FA 2-lamp



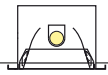
FAW 1-lamp



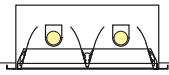
FA-ID 1-lamp



FA-ID 2-lamp



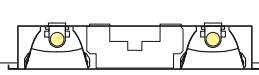
FE 1-lamp



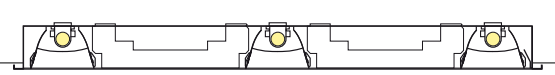
FE 2-lamp



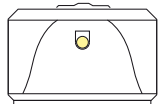
FEW 1-lamp



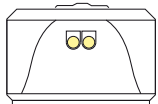
FE (infill) 2-lamp



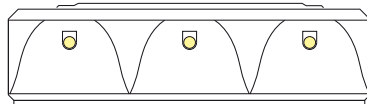
FE (infill) 3-lamp



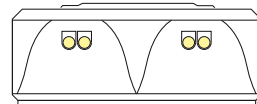
RAS-BWS 1-lamp



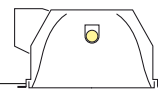
RAS-BWS 2-lamp



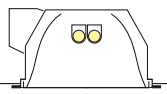
RAS-BWS 3-lamp



RAS-BWS 4-lamp



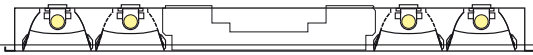
RES-BWS 1-lamp



RES-BWS 2-lamp

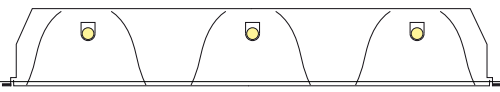
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FE (infill) 4-lamp

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RES-BWS 3-lamp

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Selected MIRAL2–MIREL2 models bear the label for especially resource-friendly products.

Information concerning **eco+** can be found at www.zumtobel.com/eco

BIVERGENZ®plus

Louvre technology at the highest level

BIVERGENZ®plus

The grid of the 3D model clearly shows the sophisticated design of the vanes, which guarantees the perfect direction of light.

UniQue® vanes

The technical lighting properties of the new side piece are optimised through bivergent technology. The blades have a 3D design. In contrast to that, a conventional side piece has a simple design, the blades are straight.

With their focus on energy savings, illumination quality and a good price/performance ratio, louvre luminaires provide an efficient, affordable lighting option.

Louvre technology is given an additional boost towards miniaturisation and increased efficiency by the slimline T16 lamp. Targeted direction of light ensures that the specifications of EN 12464-1 are met. This makes louvre luminaires ideal for use in economically efficient lighting systems.

Zumtobel has managed to further develop louvre technology and optimise the louvre optics' properties relating to lighting technology and economic efficiency.

Bivergenz®plus and UniQue® vanes

The new louvre generation created in Zumtobel's research and development laboratories optimises the interplay of two unique technological developments: patented BIVERGENZ® technology and UniQue® vanes.

This offers the following advantages:

Efficiency

The innovative BIVERGENZ®plus and UniQue® louvre technologies provide impressive technical lighting accents, also in terms of economic efficiency, enabling efficient lighting solutions combined with uniform appearance and glare control in conformity with relevant standards.

This clearly demonstrates Zumtobel's innovative power and more than 30 years of experience in developing and manufacturing high-quality louvres.

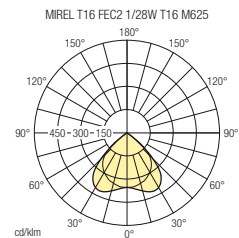


Efficient and uniform lighting solution boasting glare control in conformity with relevant standards.

Ideal batwing distribution

Patented BIVERGENZ® technology provides for wide-angle batwing distribution of the light, as it did in the louvres of the preceding generation.

Due to the special bivergent design of the louvre's side piece, maximum luminance levels occur in the luminance limitation region in the centre of the louvre side piece. The luminance softly fades towards the lower edge of the luminaire. In this way, the contrast between luminance and ceiling is minimised, thereby clearly reducing the subjective sensation of glare.

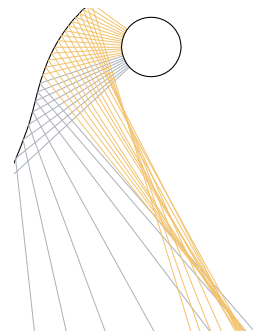


Direct BIVERGENZ® louvre with wide batwing distribution for maximum uniformity.

All-round glare-free light

The BIVERGENZ®plus louvre has been developed especially for meeting the specifications of the European standard EN 12464-1 "Light and lighting – lighting of indoor workplaces".

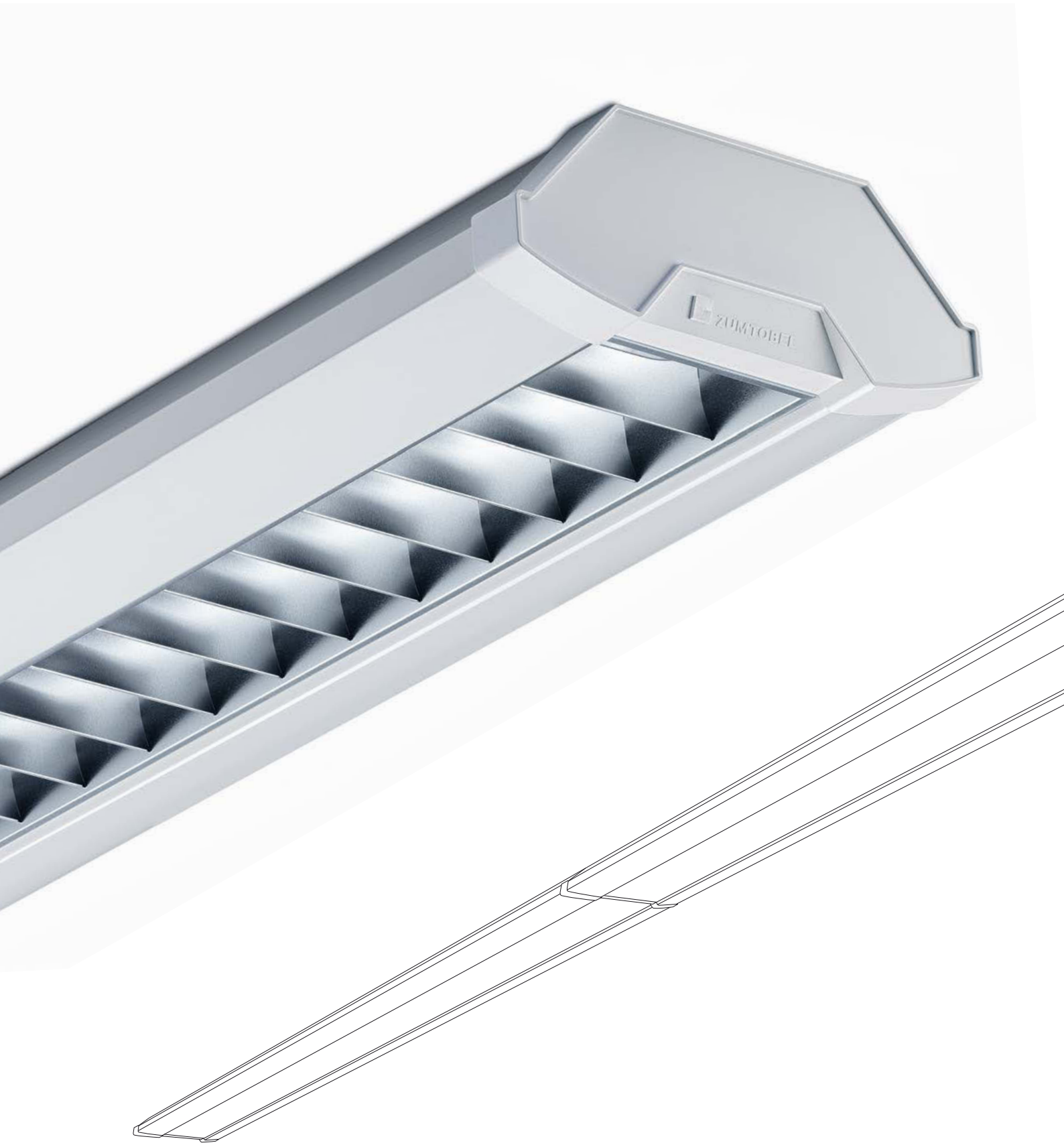
It meets all the standard's specifications in terms of limitation of both direct glare (determined according to the UGR method) and glare by reflection.



The bivergent optic comprises a concave and a convex section – thus providing a soft luminance transition.

MIRAL2

Convenient and functional





Confidently showing its class without pushing itself to the fore – this is MIRAL 2 at its best. The luminaire unit cannot fail to impress with its low profile, slim-line design emphasised by its linear contours. MIRAL 2 boasts a clear stylistic idiom and high functionality, its newly developed end caps complementing the harmonious overall impression. For Studio Ambrozus, the definition of perfect design also includes optimum handling and ease of installation.



Design MIRAL 2 | Studio Ambrozus

The design of MIRAL 2 is not intended to polarise, but to appear casual and integrative. Yet we had to give it a characteristic, distinct feature. The emphasis of its outer edges is the characteristic feature of the end cap. These edges follow the unfolding metal sheet, highlighting the luminaire's design. We sought to create an uncluttered, unpretentious design, giving the luminaire an unobtrusive, yet striking appearance.

MIRAL2

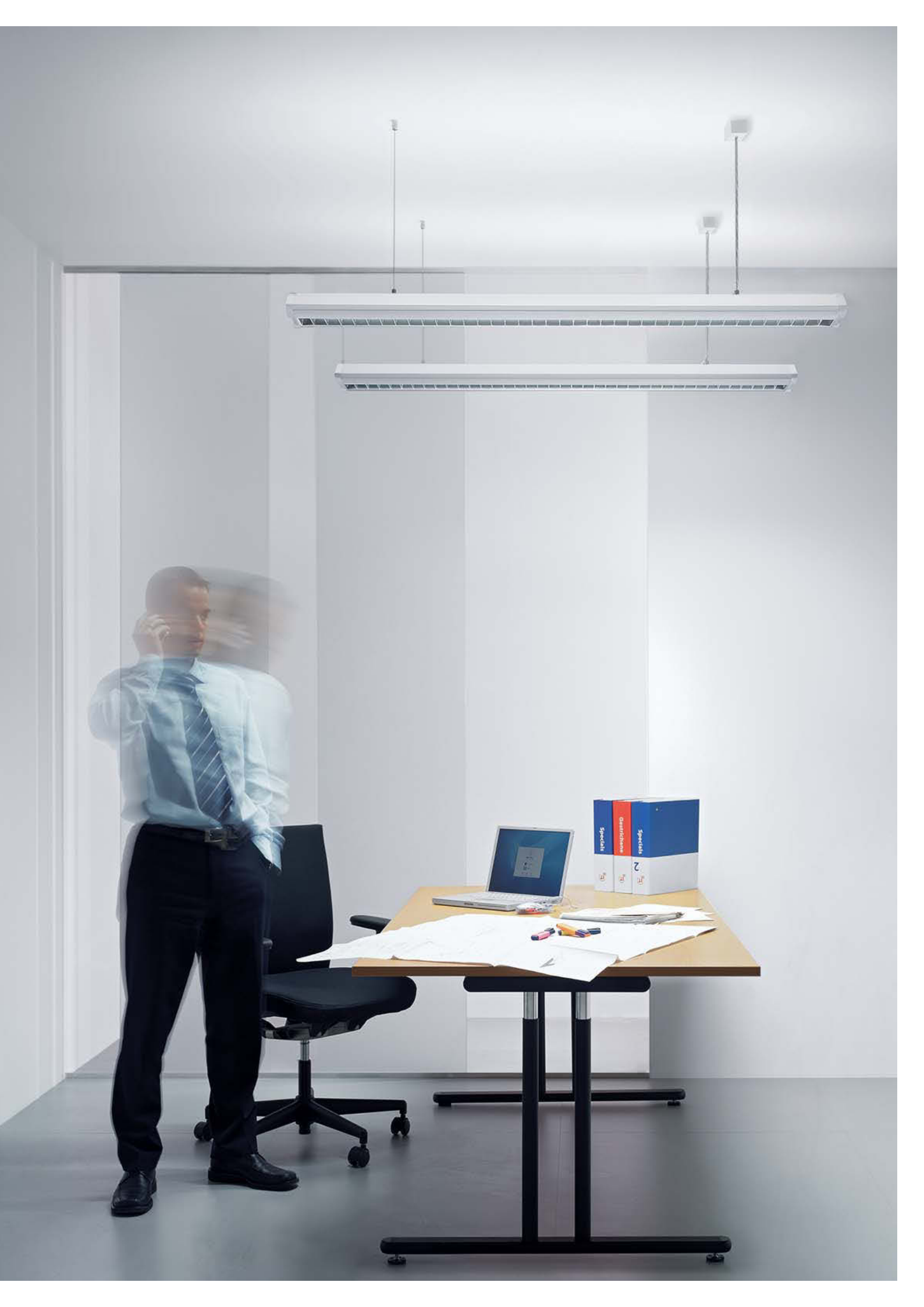
Surface-mounted/pendant luminaire



Variety of application options

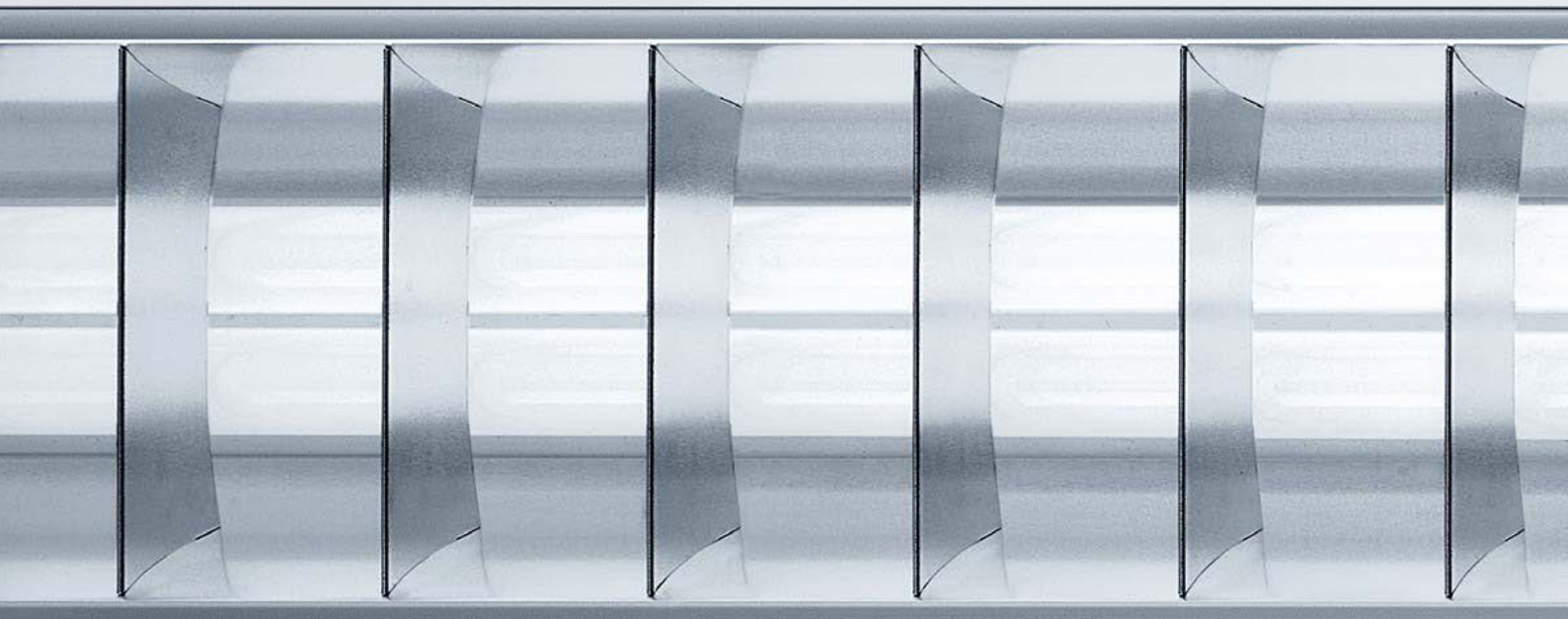
Whether working at a computer workstation or in a open-plan office, an conference room or lecture hall – uniform, glare-free lighting is an important prerequisites. The MIRAL2 surface-mounted and pendant luminaire provides perfect lighting comfort. BIVERGENZ®plus louvre technology ensures gentle luminance transitions at excellent light output ratios, delivering high lighting quality at an attractive price.





MIRAL2

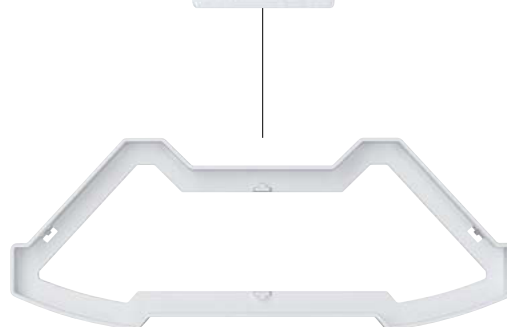
In a continuous row system

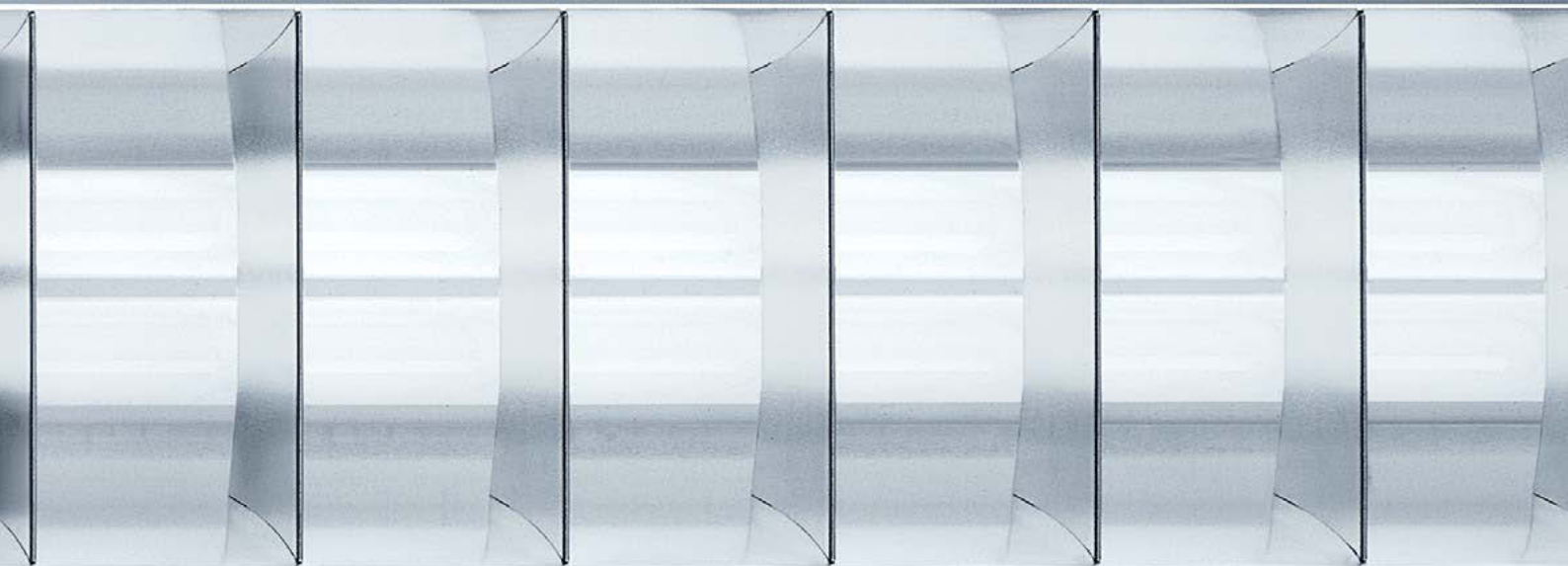




Connecting MIRAL2 – light without end

Fast, safe and convenient – the guide pins on the connectors make it possible to connect luminaires end to end in a single twisting movement, without the use of any tools: ad infinitum, if required.



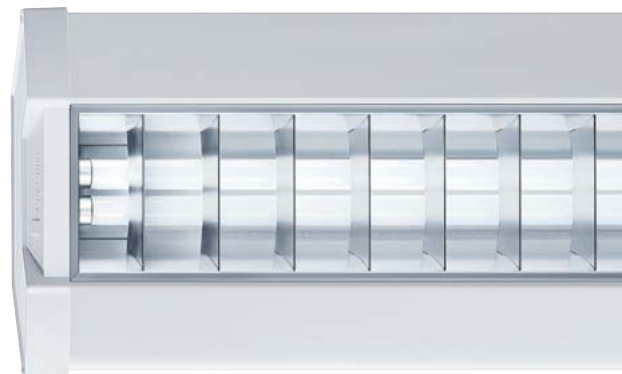
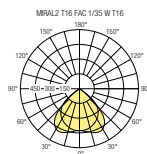


Models

Direct light

High efficiency and lighting quality

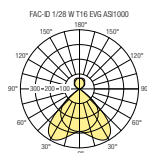
The pendant luminaire with direct light distribution focuses on balanced lighting of the task area.



Indirect/direct light

Efficient direct light and discreet illumination of the ceiling

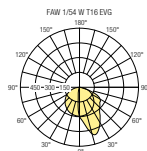
In addition to functional direct light, the pendant model illuminates the ceiling and creates a perfect room atmosphere.



Wallwashers

Efficient uniform vertical illumination

Wallwashers are used for architectural settings, for vertical product presentations, or in schools and conference rooms for illuminating blackboards and flip charts.



MIRAL2

Easy installation



Pre-assembly

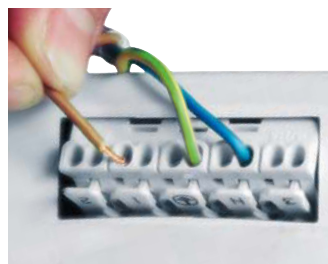
Installing MIRAL2 is extremely easy; next to no time is needed from pre-assembly to switching it on.

Fitting

Hook in the complete luminaire. This leaves both hands free to quickly and safely connect the power cable to the externally accessible, centrally located 5-pole plug-in terminal block.



Packaging The packaging is part of the unique installation concept: the mounting brackets are accessible from the outside, even before the luminaire is unpacked, the advantage being that the luminaire will remain protected inside the packaging during pre-assembly.



Electrical connection Fast installation is also guaranteed thanks to a centrally located and easily accessible plug-in terminal block (CE compliant). The connecting cable can be installed conveniently and quickly without any need to open the luminaire housing.



Fold up

Once MIRAL2 has been connected, it folds up easily. Any excess length of power cable can be simply stowed in the generously sized cable duct at the rear of the luminaire.



Snap on

Then just guide the luminaire above the springs and snap it on. This is how simple, safe and fast it is to install MIRAL2.



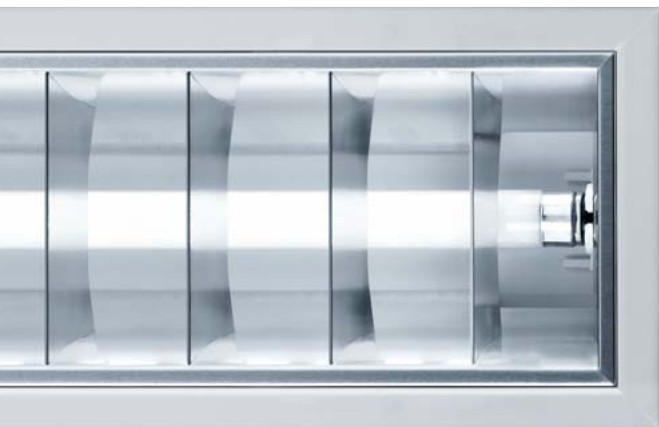
Integrated light source MIRAL2 is supplied with an LF840 light source (LF830 available on request). This not only minimises the time needed to install the luminaire, it also means, that the time resources and energy otherwise required to procure, transport and temporarily store the lamps can be saved, too.



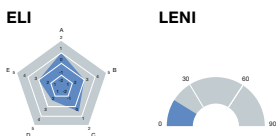
Protective film A special self-adhesive protective film made of recyclable material provides optimum protection against louvre and luminaire contamination. Thus, the MIRAL2 surface-mounted luminaire can be fully installed whilst building work is still in progress, and used to light the construction site.

MIREL2

T16 recessed luminaire

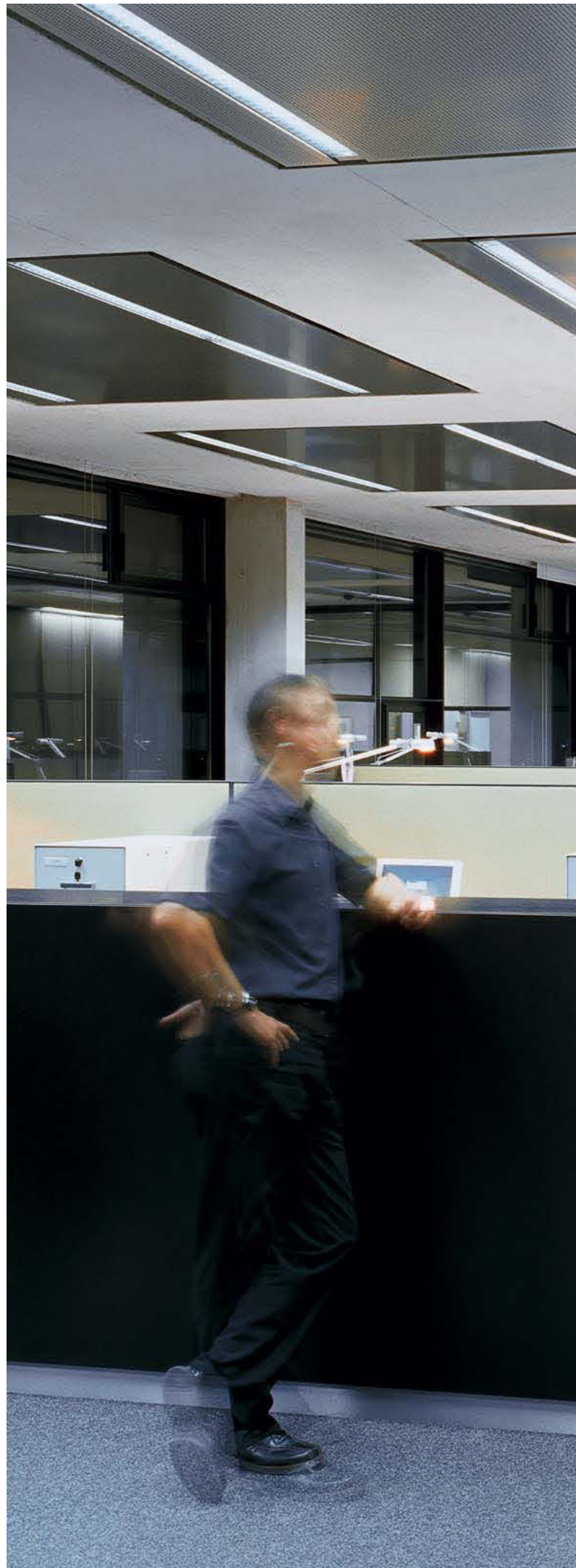


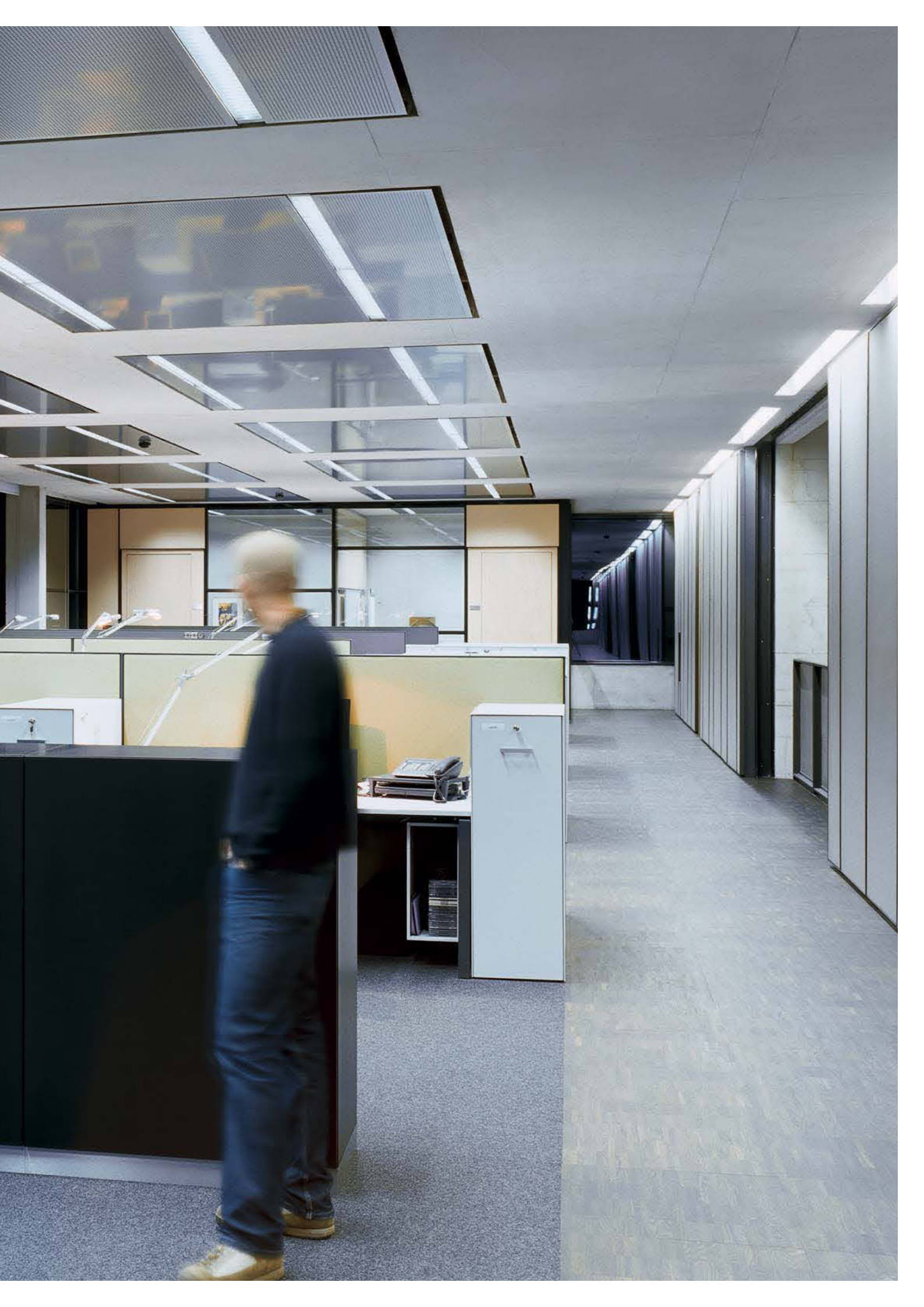
Unmistakably the surface-mounted luminaire's twin sister, the MIREL 2 recessed version, effortlessly handles all lighting tasks in offices and other task areas. Recessed installation in the ceiling also opens up further application options. Here, BIVERGENZ®plus provides efficiency, optimised direction of light and glare control.



ELI: In the office, MIREL2 recessed luminaires are arranged in line with the room's geometry. The luminaires discreetly blend into the ceiling, providing efficient direct light in the task area.
LENI: 15.60 kWh/m²a

Trumpf service and distribution centre, Dietzingen / D
Architects: Barkow Leibinger Architekten, Berlin / D
Lighting solution: MIREL2 FEC 1/35 W





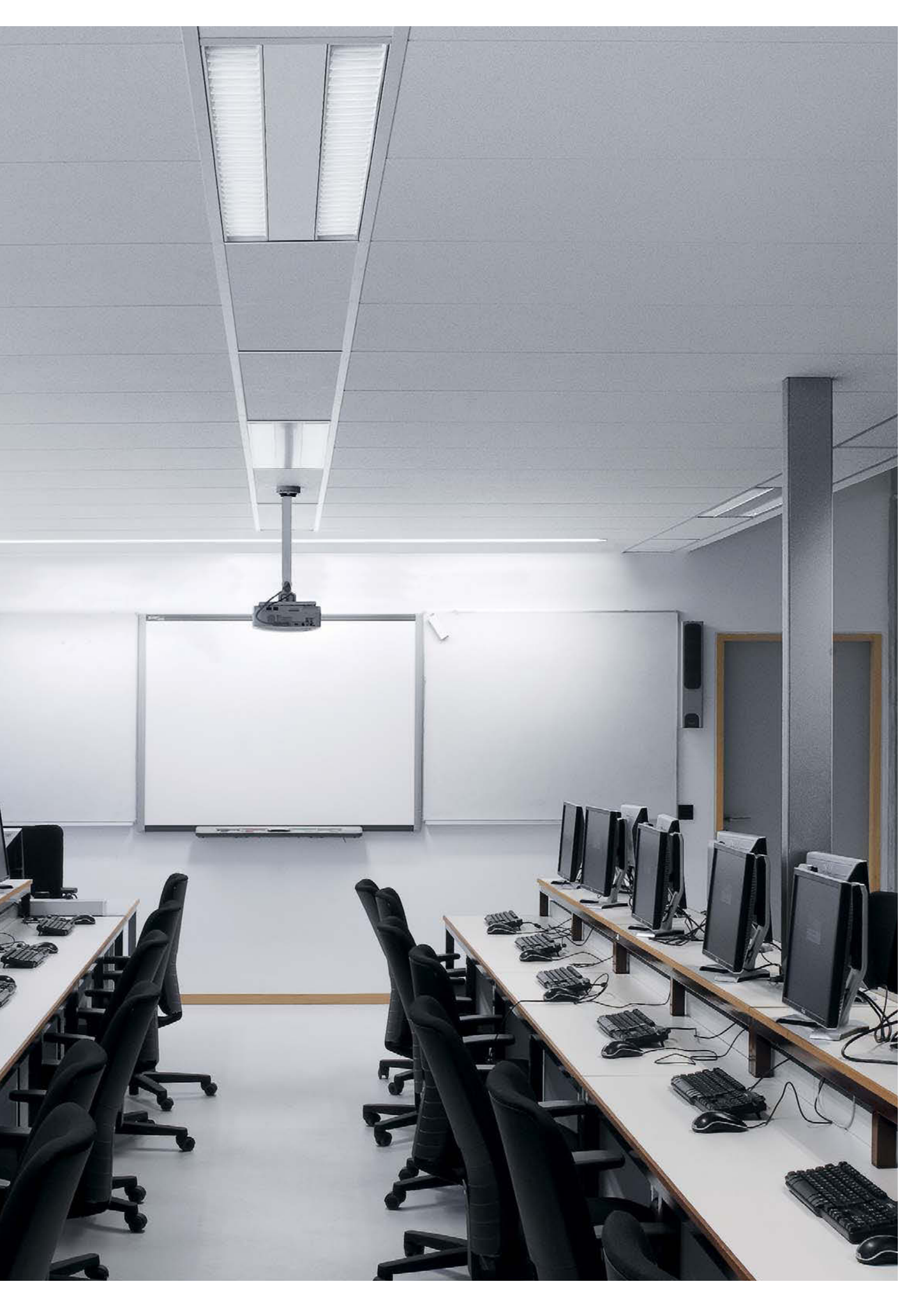
MIREL 2

Wallwashers



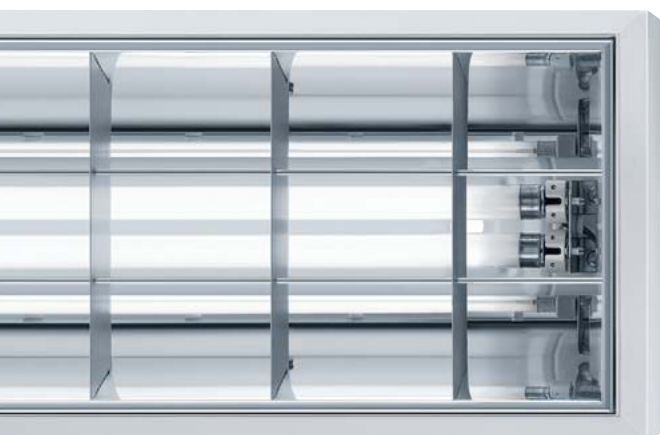
With its uniform, asymmetric beam pattern, MIREL 2 FEW is the ideal supplement to general lighting, making it ideal for illuminating pictures, vertical presentation surfaces, flip charts and wallboards. Its smooth cover, flush with the ceiling, prevents a direct view of the light source. The exceptionally low-profile luminaire housing blends inconspicuously into the ceiling architecture.





MIRAL/MIREL T16 BWS

Sports hall lighting



In any case, perfect lighting must ensure the safety of athletes and the best possible visual conditions for competitors, spectators and referees. The luminaire has been developed and tested especially for this area of application. Standard EN 12193, which was prepared in cooperation with sports associations, provides guidance on proper lighting. BWS T16 effortlessly meets the specifications contained in this standard, regardless of whether it is installed as a surface-mounted or recessed luminaire. It can be fitted with light sources of up to 80 W.





MIREL2 complete

Quick and easy to install without any tools



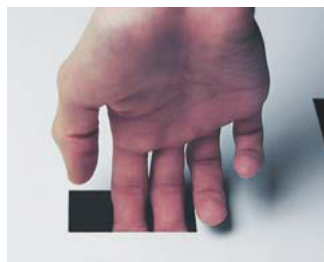
Prepare

Thanks to the grip opening, ergonomically positioned in the housing, installing the luminaire becomes child's play.

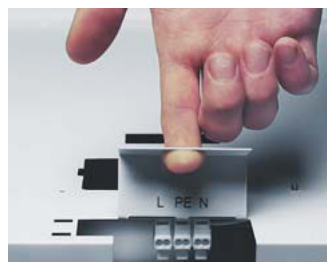


Connect

MIREL2 can be connected quickly and easily. Fold down cover – connect cables – fold up cover.



Grip opening The grip opening ergonomically positioned at the bottom of the housing, ensures easy and safe handling of the MIREL2 complete luminaire and enables installation by a single person.



Electrical connection The cable can be connected in next to no time, without having to open the luminaire housing. The lamp and louvre remain in the housing, well protected against contamination and damage. Strain relief can easily be retrofitted, if required.



Fit

The ceiling-mounted luminaire is put into the ceiling bracket. The SET BEF RE-T16 fastening kit is available for concealed and sawn cut-outs.



Done

Now all you need to do is remove the protective film – luminaire installation completed!



Electrical connection Optionally, MIREL 2 Complete and Infill versions can be ordered via VIVA with the LINECT® plug-in connection system compatible with products from all manufacturers.
www.li-nect.com



Integrated light sources The MIREL2 COMPLETE versions are supplied with the LF840 (LF830) light source. This saves time and bother, thus minimising installation effort. A self-adhesive film made of recyclable material optimally protects the louvre and lamps against soiling.

DIMMING AND SAVING

Cutting costs and protecting the environment

With MIRAL2 or MIREL2, economy and ecology go hand in hand. In line with Zumtobel's latest energy-saving initiative, the luminaires can optionally be fitted with the very latest generation of components. These dim²save ballasts were developed to minimise power consumption without having to pay high investment costs. Connecting the luminaires to sensors and control systems, thereby exploiting the potential savings achieved by automation at relatively little expense, is the perfect complement to these luminaires.

Cost-efficient entry into the world of dimming.

dim²save

Even simple, manual dimming cuts energy consumption by 30 % compared with a non-dimmable lighting solution. Also fitting presence detectors cuts expenditure on energy by 50 %. Energy consumption can be cut by 70 % by using daylight-based control.

www.zumtobel.com/dim2save

Plug & play lighting management

DIMLITE

The way towards economically efficient lighting control is also smoothed when it comes to efficient lighting management. Thanks to its modular design, DIMLITE is just as adaptable as it is simple. The required components are simply added to an intelligent basic module – without addressing or commissioning and using just standard installation material.

www.zumtobel.com/dimlite

System limitations:

- 25 DALI luminaires (50 DSI luminaires) per channel

Energy saving:

- Uses sensor to take daylight into account
- Presence detectors
- No-load disconnection of electronic ballasts by relay switching

Initial operation:

- Auto setup requires relatively little commissioning effort

Add-on functions:

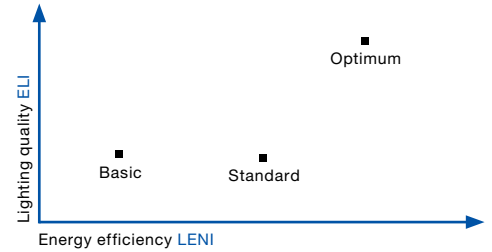
- User-configurable lighting scenes
- Circle control point and conventional momentary-action switches
- Remote control

MIRAL/MIREL 2

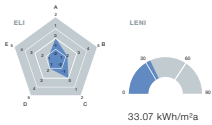
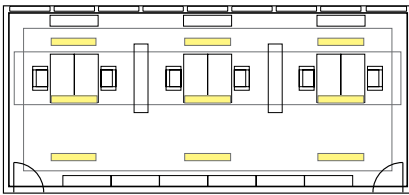
Human Aspects + Energy Efficiency = Humanergy Balance

Balanced lighting solutions Office

Office lighting with MIRAL2 or MIREL2 meets all normative requirements for good lighting. In combination with a simple lighting control system and by supplementing ambient lighting with wall brightening luminaires, both energy efficiency and lighting quality will be increased at the office.



Basic



- MIREL2 2/49 W
- Switched

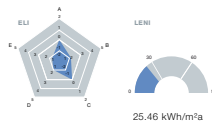
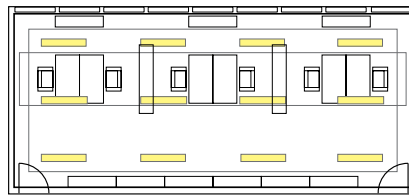
Lighting quality

- Meets requirements according to standards

Energy efficiency

- Efficient direct lighting with very good light output ratio

Standard



- MIREL2 2/35 W
- Dimmable (dim²save)

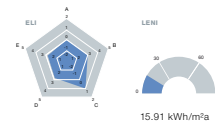
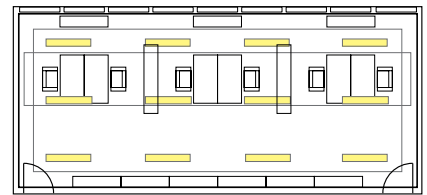
Lighting quality

- No improvement or deterioration of lighting quality

Energy efficiency

- Improved light output ratio
- Lower installed load sufficient to achieve the same illuminance level

Optimum



- MIREL2 2/35 W
- MIREL2 wallwashers 1/49 W
- Scenes, daylight-based lighting changes (Luxmate DIMLITE)

Lighting quality

- Lighting creates zones within a room: task area lighting based on daylight and wallwashing by MIREL2 with asymmetric light distribution

Energy efficiency

- Ambient lighting is controlled on the basis of daylight – a significant contribution to energy efficiency
- Scene management adjusts the lighting (brightness) to the corresponding task, thus saving energy

Underlying conditions:

Team office 12 m x 5 m, 8 hrs., 250 days/year



ELI Ergonomic Lighting Indicator

Lighting quality on the basis of five criteria:
 A Visual performance B Vista C Visual comfort
 D Vitality E Empowerment

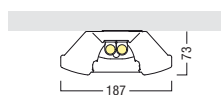


LENI Lighting Energy Numeric Indicator

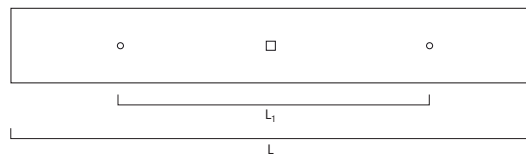
Energy consumption in kWh per year and square metre, based on EN 15193.

MIRAL2 T16 | Surface-mounted luminaires

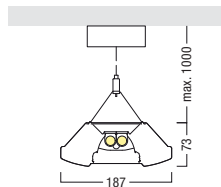
Installation MIRAL2 T16 FAD2, FAC2, FAL2, FAW2, FAD2-ID, FAC2-ID



FAD, FAC, FAL, FAW

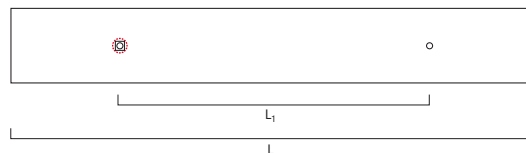


- Possible feed-in point (luminaire)
- Installation points (ceiling)
- ⊗ Ceiling rose



Ceiling rose
Cord
98
35
35

FAD-ID, FAC-ID



	L	L ₁
T16 1/28, 2/28 W	1200	720
T16 1/35, 2/35 W	1500	900
T16 1/49, 2/49 W	1500	900
T16 1/54, 2/54 W	1200	720
T16 1/80 W	1500	900

[...] Shared properties MIRAL2 T16 surface-mounted luminaire

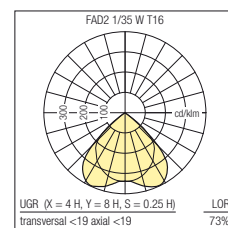
- White-painted sheet-steel housing, with removable plastic end pieces (no tools required). Please order continuous-row connectors separately.
- Supplied ready for installation, with built-in F840 lamp and protective film
- Revolutionary, ultra-simple quick installation without opening luminaire
- Luminaire pre-wired using halogen-free leads
- The “dim²save” luminaires contain an electronic ballast that can be dimmed by momentary-action switch or using DIMLITE

MIRAL2 T16 FAD2 60°/65° Darklight louvre



- [...]
- Highly specular Bivergenz[®]plus optic with UniQue vane technology
- Models available with glare control for DSE workstations L < 200 cd/m² at 65°

	L/W/H	kg	Order no.
Dimmable luminaires			
<i>dim²save</i>			
1/28 W T16 <i>eco⁺</i>	1200/187/73	2.8	42 918 214
1/35 W T16 <i>eco⁺</i>	1500/187/73	3.5	42 918 211
1/49 W T16 <i>eco⁺</i>	1500/187/73	3.5	42 918 208
1/54 W T16	1200/187/73	2.8	42 918 206
2/28 W T16	1200/187/73	2.8	42 918 204
2/35 W T16	1500/187/73	3.5	42 918 202
2/49 W T16	1500/187/73	3.5	42 918 199
2/54 W T16	1200/187/73	2.8	42 918 197
Luminaires with electronic ballast			
<i>electronic</i>			
1/28 W T16	1200/187/73	2.8	42 178 246
1/35 W T16	1500/187/73	3.5	42 178 247
1/49 W T16	1500/187/73	3.5	42 178 248
1/54 W T16	1200/187/73	2.8	42 178 249
2/28 W T16	1200/187/73	2.8	42 178 250
2/35 W T16	1500/187/73	3.5	42 178 251
2/49 W T16	1500/187/73	3.5	42 178 252
2/54 W T16	1200/187/73	2.8	42 178 253

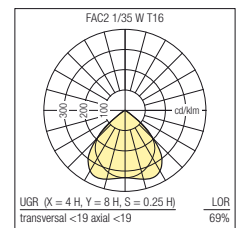


MIRAL2 T16 FAC2 65° Comfort louvre



- [...]
 - Semi-matt Bivergenz®plus optic with UniQue vane technology
 - Models available with glare control for DSE workstations $L < 1000 \text{ cd/m}^2$ at 65°

	L/W/H	kg	Order no.
Dimmable luminaires			
			<i>dim²save</i>
1/28 W T16	1200/187/73	2.8	42 918 232
1/35 W T16 <i>eco⁺</i>	1500/187/73	3.5	42 918 229
1/49 W T16	1500/187/73	3.5	42 918 226
1/54 W T16	1200/187/73	2.8	42 918 225
2/28 W T16	1200/187/73	2.8	42 918 223
2/35 W T16	1500/187/73	3.5	42 918 221
2/49 W T16	1500/187/73	3.5	42 918 219
2/54 W T16	1200/187/73	2.8	42 918 217
Luminaires with electronic ballast			
			<i>electronic</i>
1/28 W T16	1200/187/73	2.8	42 178 279
1/35 W T16	1500/187/73	3.5	42 178 280
1/49 W T16	1500/187/73	3.5	42 178 282
1/54 W T16	1200/187/73	2.8	42 178 283
2/28 W T16	1200/187/73	2.8	42 178 284
2/35 W T16	1500/187/73	3.5	42 178 286
2/49 W T16	1500/187/73	3.5	42 178 287
2/54 W T16	1200/187/73	2.8	42 178 288

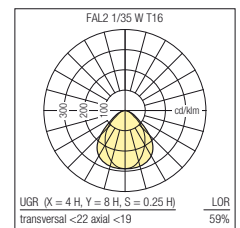


MIRAL2 T16 FAL2 white louvre



- [...]
 - White painted louvre optic with V-blades
 - Glare control for simple applications such as adjoining rooms

	L/W/H	kg	Order no.
Luminaires with electronic ballast			
			<i>electronic</i>
1/28 W T16	1200/187/73	2.8	42 178 265
1/35 W T16	1500/187/73	3.5	42 178 266
1/49 W T16	1500/187/73	3.5	42 178 267
1/54 W T16	1200/187/73	2.8	42 178 268
2/28 W T16	1200/187/73	2.8	42 178 269
2/35 W T16	1500/187/73	3.5	42 178 270
2/49 W T16	1500/187/73	3.5	42 178 271
2/54 W T16	1200/187/73	2.8	42 178 272



MIRAL2 T16 | Pendant luminaires

|...| Shared properties MIRAL2 T16 pendant luminaire

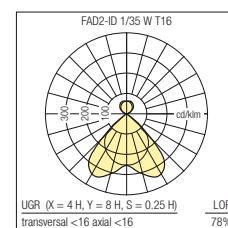
- Supplied ready for installation with integrated F840 lamp
- Luminaire comprising sheet-steel housing, painted white, ready to connect, includes cord installation set and optic (please see Accessories for supply cable)
- Luminaire pre-wired using halogen-free leads
- The “dim²save” luminaires contain an electronic ballast that can be dimmed by momentary-action switch or using DIMLITE

MIRAL2 T16 FAD2-ID Darklight louvre



- |...|
- Highly specular Bivergenz[®]plus optic with UniQue vane technology
- Models available with glare control for DSE workstations L < 200 cd/m² at 65°

	L/W/H	kg	Order no.
Dimmable, includes ASQ cord set 1000 mm			<i>dim²save</i>
1/28 W T16 <i>eco*</i>	1200/187/73	2.8	42 178 190
1/35 W T16 <i>eco*</i>	1500/187/73	3.5	42 178 192
1/49 W T16	1500/187/73	3.5	42 178 194
1/54 W T16	1200/187/73	2.8	42 178 196
2/28 W T16 <i>eco*</i>	1200/187/73	2.8	42 178 198
2/35 W T16 <i>eco*</i>	1500/187/73	3.5	42 178 200
2/49 W T16	1500/187/73	3.5	42 178 202
2/54 W T16	1200/187/73	2.8	42 178 203
Electronic ballast, includes ASQ cord set 1000 mm			<i>electronic</i>
1/28 W T16	1200/187/73	2.8	42 178 257
1/35 W T16	1500/187/73	3.5	42 178 258
1/49 W T16	1500/187/73	3.5	42 178 259
1/54 W T16	1200/187/73	2.8	42 178 260
2/28 W T16	1200/187/73	2.8	42 178 261
2/35 W T16	1500/187/73	3.5	42 178 262
2/49 W T16	1500/187/73	3.5	42 178 263
2/54 W T16	1200/187/73	2.8	42 178 264

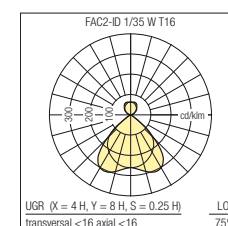


MIRAL2 T16 FAC2-ID Comfort louvre



- |...|
- Semi-matt Bivergenz[®]plus optic with UniQue vane technology
- Models available with glare control for DSE workstations L < 1000 cd/m² at 65°

	L/W/H	kg	Order no.
Dimmable, includes ASQ cord set 1000 mm			<i>dim²save</i>
1/28 W T16 <i>eco*</i>	1200/187/73	2.8	42 178 174
1/35 W T16 <i>eco*</i>	1500/187/73	3.5	42 178 176
1/49 W T16	1500/187/73	3.5	42 178 178
1/54 W T16	1200/187/73	2.8	42 178 180
2/28 W T16 <i>eco*</i>	1200/187/73	2.8	42 178 182
2/35 W T16 <i>eco*</i>	1500/187/73	3.5	42 178 184
2/49 W T16	1500/187/73	3.5	42 178 186
2/54 W T16	1200/187/73	2.8	42 178 188
Electronic ballast, includes ASQ cord set 1000 mm			<i>electronic</i>
1/28 W T16	1200/187/73	2.8	42 178 289
1/35 W T16	1500/187/73	3.5	42 178 290
1/49 W T16	1500/187/73	3.5	42 178 291
1/54 W T16	1200/187/73	2.8	42 178 292
2/28 W T16	1200/187/73	2.8	42 178 293
2/35 W T16	1500/187/73	3.5	42 178 294
2/49 W T16	1500/187/73	3.5	42 178 295
2/54 W T16	1200/187/73	2.8	42 178 296



MIRAL2 T16 FAW2



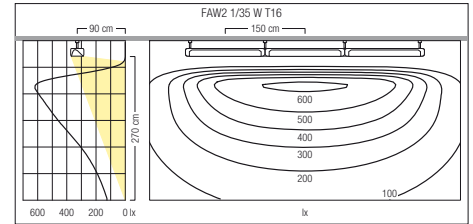
- Highly optimised wallwasher optic with asymmetrical light distribution; ideal for uniform illumination of walls
- Supplied ready for installation, with built-in F840 lamp and protective film
- Easy quick-fit installation without opening the luminaire
- Luminaire pre-wired using halogen-free leads
- The "dim²save" luminaires contain an electronic ballast that can be dimmed by momentary-action switch or using DIMLITE

Dimmable luminaires

	L/W/H	kg	Order no.
1/28 W T16 <i>eco</i> ⁺	1200/187/73	2.8	42 918 188
1/35 W T16 <i>eco</i> ⁺	1500/187/73	3.5	42 918 192
1/54 W T16 <i>eco</i> ⁺	1200/187/73	2.8	42 918 184
1/80 W T16	1500/187/73	3.5	42 918 177

Luminaires with electronic ballast

	L/W/H	kg	Order no.
1/28 W T16	1200/187/73	2.8	42 178 274
1/35 W T16	1500/187/73	3.5	42 178 275
1/54 W T16	1200/187/73	2.8	42 178 277
1/80 W T16	1500/187/73	3.5	42 178 278



MIRAL2 T16 accessories

- The transparent supply cable is not currently available in a halogen-free version. As an alternative, however, a halogen-free conventional power lead can be supplied on request.

Transparent supply cable 0.75 mm²

	Order no.
3x0.75 mm ² 1.0 m	42 120 919
3x0.75 mm ² 1.5 m	42 120 900
3x0.75 mm ² 10.0 m	22 127 714
5x0.75 mm ² 1.0 m	22 125 146
5x0.75 mm ² 1.5 m	22 125 152
5x0.75 mm ² 10.0 m	22 127 720

Transparent supply cable 1.5 mm²

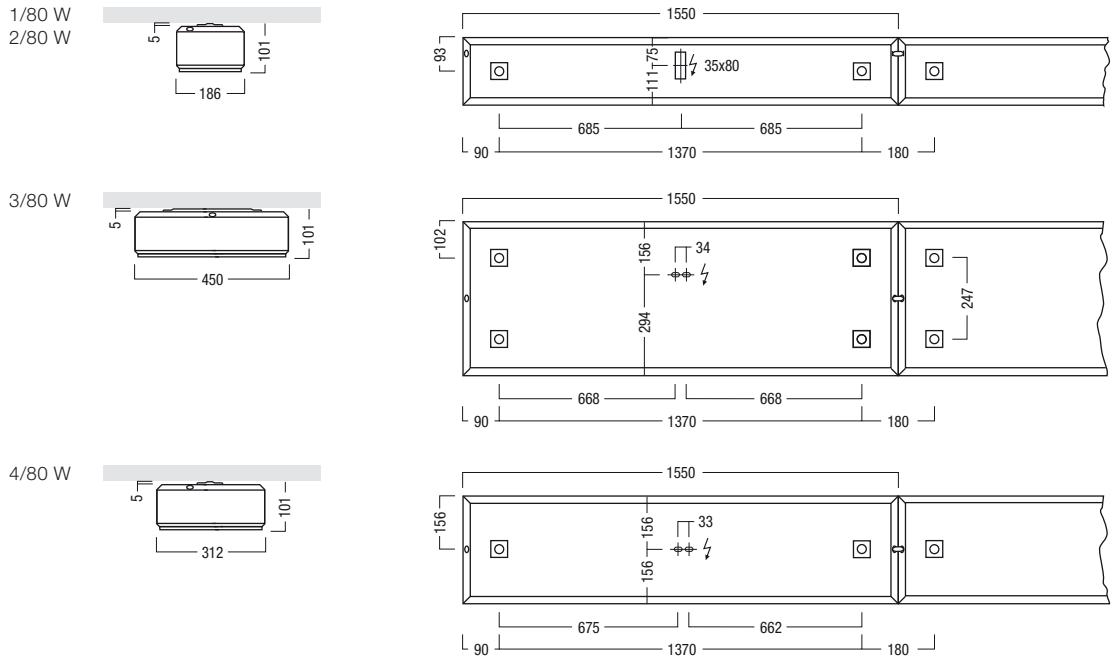
3x1.5 mm ² 1.0 m	22 157 566
3x1.5 mm ² 1.5 m	22 157 567
3x1.5 mm ² 10.0 m	22 157 568
5x1.5 mm ² 1.0 m	22 157 569
5x1.5 mm ² 1.5 m	22 157 570
5x1.5 mm ² 10.0 m	22 157 571

Connector

FA2 LB-V Continuous-row connector	22 162 357
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Installation MIRAL T16 RAS-BWS



[...] Shared properties MIRAL T16 surface-mount luminaire, square

- Luminaire consisting of sheet steel housing, white stove-enamelled.
- Luminaire pre-wired using halogen-free leads

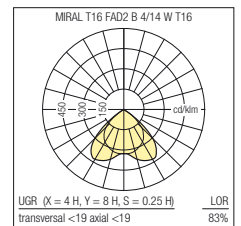
MIRAL T16 FAD2 B 60°/65° darklight louvre infill



- [...]
- Highly specular Bivergenz®plus optic with UniQue vane technology
- Glare control for DSE workstations L < 200 cd/m² at 60°/65°

Luminaires with electronic ballast

L/W/H	kg	Order no.
4/14 W T16	600/600/57	3.7 42 176 610



MIRAL T16 FAC2 B 65° bivergent louvre infill



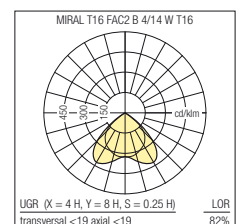
- [...]
- Semi-matt Bivergenz®plus optic with UniQue vane technology
- Glare control for DSE workstations L < 1000 cd/m² at 65°

Dimmable luminaires

L/W/H	kg	Order no.
4/14 W T16 eco*	600/600/57	3.7 42 178 117

Luminaires with electronic ballast

4/14 W T16	600/600/57	3.7 42 176 608
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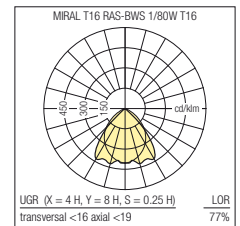


MIRAL T16 RAS-BWS stepped-vane optic, sports-hall luminaire



- Highly specular Bivergent® optic with semi-matt roll-formed cross vanes
- High light output ratio and excellent glare control for applications in sports facilities
- Louvre is highly stable thanks to integral steel bars. Luminaire is certified to DIN 18032
- Luminaire consisting of sheet steel housing, white stove-enamelled
- Luminaire pre-wired using halogen-free leads
- For pendant mounting of single-lamp and twin-lamp T16 BWS luminaires, counterweights must be ordered for each specific project
- When mounting three-lamp BWS luminaires on trunking, 2 trunking elements are required
- The "dim²save" luminaires contain an electronic ballast that can be dimmed by momentary-action switch or using DIMLITE

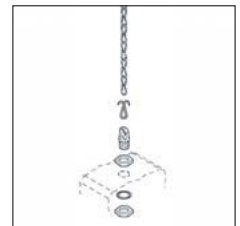
	L/W/H	kg	Order no.
Dimmable luminaires			
1/80 W T16	1550/186/101	4.3	42 918 174
2/80 W T16	1550/186/101	4.3	42 918 171
3/80 W T16	1550/450/101	8.3	42 918 169
4/80 W T16	1550/312/101	6.0	42 918 181
Luminaires with electronic ballast			
1/80 W T16	1550/186/101	4.3	42 156 920
2/80 W T16	1550/186/101	4.3	42 156 921
3/80 W T16	1550/450/101	8.3	42 156 922
4/80 W T16	1550/312/101	6.0	42 156 923



MIRAL T16 BWS chain suspension assembly

- Bright-galvanised ZAKK knotted-link chain (ordered by metre)
- Connector for joining ZAKK knotted chain to ring lug
- Ring lug: includes serrated washer and two nuts for fixing on luminaire housing
- Counterbalance weights must be ordered on a project basis when pendent-mounting 1-lamp and 2-lamp MIRAL surface-mount luminaires

	Order no.
Connector (1 off) zinc	02 009 899
Ring lug with nuts (set = 2 off) aluminium, stove-enamelled, and galvanised sheet steel	20 321 473
ZAKK knotted chain by the metre (nickel) galvanised	20 042 906



MIRAL T16 BWS ceiling suspension assembly

- Spring clip made of stainless spring steel
- Can be moved in longitudinal direction
- Encompassing exterior, hence greater safety
- Do not place spring clips in intermediate position when installing

	L/W/H	Order no.
Ceiling bracket		
ZAD ceiling bracket	56/30/12	20 350 658



MIRAL T16 BWS chain suspension assembly

- Chain suspension assembly with spring clip
- Electro-galvanised S-hook with built-in sleeve for easy height adjustment (ZAK)
- Installed using "CLIX" mechanism

	Order no.
ZAK chain suspension assembly white	20 350 553
ZAKE chain suspension assembly without height adjustment	20 934 811
ZAKK knotted chain by the metre (nickel) galvanised	20 042 906



MIRAL T16 BWS trunking

	L/W/H	kg	Order no.	
<ul style="list-style-type: none"> Made of roll-formed sheet steel, in white polyester lacquer finish 400 mm connector providing straight guideway for trunking Front-end knockout for cable entry 3 knockouts for rear cable entry 	Trunking			
	ZX2 T 3240 WH	3240/60/52	3.0	22 157 860
	Connector			
	ZX2 T-V straight connector		0.6	22 157 756
	End cap for trunking			
	ZX2 T-E	1/63/56		22 157 793
	Cable grip			
	VKT cable grip			20 351 714

Please note: trunking connector must be ordered separately.



MIRAL T16 BWS cord suspension assembly

	H	Order no.	
<ul style="list-style-type: none"> Spring clip made of stainless spring steel Cord suspension length continuously height-adjustable also after installation With zinc-plated steel cord, 1.8 mm diameter Cord can be cut to length Fixed using "CLIX" mechanism 	Cord suspension		
	ASI 500 0-L ZE/ZX2/COPA cord suspension	500	20 350 572
	ASI 1000 0-L ZE/ZX2/COPA cord suspension	1000	20 350 588
	ASI 1500 0-L ZE/ZX2/COPA cord suspension	1500	20 350 594
	ASI 2000 0-L ZE/ZX2/COPA cord suspension	2000	20 350 605



MIRAL T26 ZAKS and ZAK 0-30° chain suspension assembly

	Order no.	
<ul style="list-style-type: none"> ZAKS : chain suspension assembly for installing trunking installation at an inclined angle in longitudinal direction ZAK 0-30°: chain suspension assembly for installing trunking at an inclined angle in the transverse direction The ZTB-BWS fixing component is used in combination with the RAL/S-BWS luminaire and ZX2 T trunking 	ZAK 0-30° chain suspension device for installing luminaires at an inclined angle across their width	
		20 350 683
	ZAKS chain suspension device for installing luminaires at an inclined angle along their length	
		20 350 677



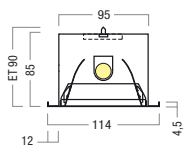
MIRAL T16 BWS cover strips

	L/W/H	kg	Order no.	
<ul style="list-style-type: none"> Plastic covers can be countersunk into lampholder, thereby ensuring a clean transition where there is a break in continuous row systems Trunking held internally and externally by cover strips for a secure hold 	T16 cover strips			
	ZX2 T-AK 28/54 plastic cover strips	1179/54/11	0.1	22 157 794
	ZX2 T-AK 35/49/80 plastic cover strips	1479/54/11	0.2	22 157 795
	T26 cover strips			
	ZX2 T-AK 36 plastic cover strips	1229/54/11	0.2	20 351 143
	ZX2 T-AK 58 plastic cover strips	1529/54/11	0.2	20 351 159

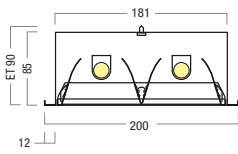


Dimensions of MIREL2, T16 1-lamp and 2-lamp

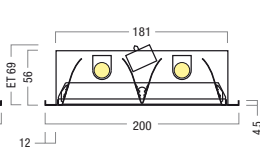
1-lamp



2-lamp high-profile version



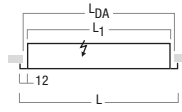
2-lamp low-profile version



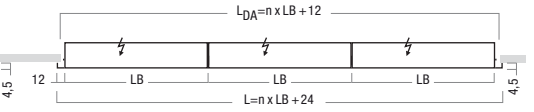
for continuous-row luminaires
 – emergency luminaires
 – master luminaires
 – etc.

for ballasts electronic

Individual luminaire



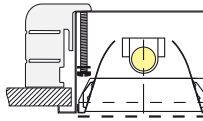
Continuous row system



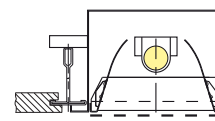
Module 625	L	L ₁	LB	B _{DA} (1/...)	B _{DA} (2/...)	L _{DA}
14/24 W	623	605	–	100	190	610
28/54 W	1248	1230	–	100	190	1235
35/49/80 W	1548	1530	–	100	190	1535

Module 600 and continuous-row system

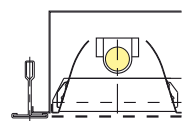
Module 600 and continuous-row system	L	L ₁	LB	B _{DA} (1/...)	B _{DA} (2/...)	L _{DA}
14/24 W	598	580	–	100	190	585
28/54 W	1198	1180	1174	100	190	1185
35/49/80 W	1498	1480	1474	100	190	1485



Cut apertures with mounting kit

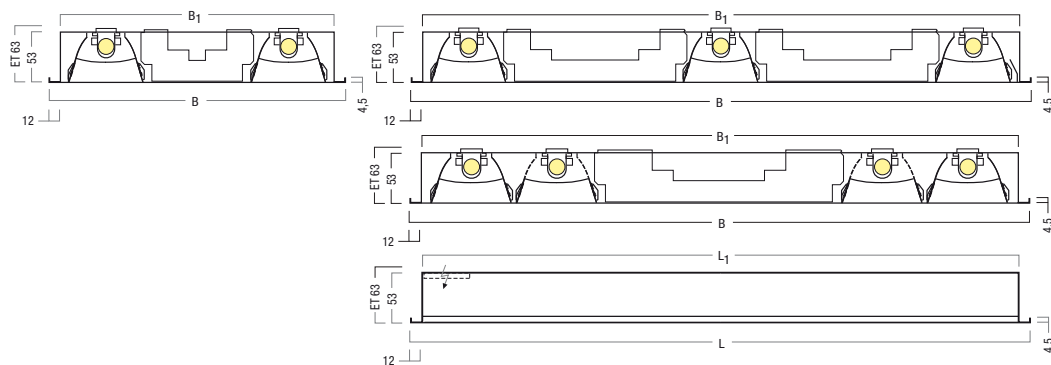


Concealed systems with mounting kit



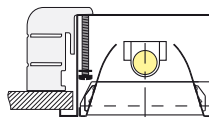
Exposed carrier systems as lay-in luminaire

Dimensions of MIREL2 T16, 2, 3 and 4-lamp infill

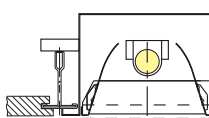


Module 625	L	L ₁	B (2/...)	B (3/4...)	B ₁ (2/...)	B ₁ (3/4...)			
							B _{DA} (2/...)	B _{DA} (3/4...)	L _{DA}
14/24 W	623	605	310	623	292	605	294	607	607
28/54 W	1248	1230	310	623	292	605	294	607	1232
35/49/80 W	1548	1530	310	623	292	605	294	607	1532

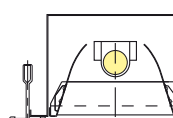
Module 600	L	L ₁	B (2/...)	B (3/4...)	B ₁ (2/...)	B ₁ (3/4...)			
							B _{DA} (2/...)	B _{DA} (3/4...)	L _{DA}
14/24 W	598	580	298	598	280	580	282	582	582
28/54 W	1198	1180	298	598	280	580	282	582	1182
35/49/80 W	1498	1480	298	598	280	580	282	582	1482



Cut apertures with mounting kit



Concealed systems with mounting kit



Exposed carrier systems as lay-in luminaire

- White-painted sheet-steel housing
- Integrated ventilation apertures available on request
- 3-pole terminal block or 5-pole terminal block for dimmable version
- For ceilings with concealed or exposed trunking and for sawn cut-outs
- Luminaire pre-wired using halogen-free leads
- Mounting kit is needed for concealed carrier systems and sawn cut-outs
- LINECT®-compatible connecting terminal is optionally available
- Convenient electrical connection

MIREL2 T16 FED2 60°/65° Darklight louvre, single luminaire

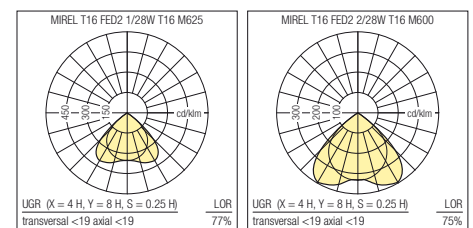


- [...]
- Highly specular Bivergenz®plus optic with UniQue vane technology
- Glare control for DSE workstations L < 200 cd/m² at 60°/65°
- The "dim²save" luminaires contain an electronic ballast that can be dimmed by momentary-action switch or using DIMLITE

	L/W/H	kg	Order no.
Dimmable for module 600			
1/28 W T16 <i>eco</i> ⁺	1198/114/85	2.8	42 918 506
1/35 W T16 <i>eco</i> ⁺	1498/114/85	3.5	42 918 509
1/49 W T16 <i>eco</i> ⁺	1498/114/85	3.5	42 918 512
1/54 W T16	1198/114/85	2.8	42 918 516
2/14 W T16 <i>eco</i> ⁺	598/200/56	2.0	42 918 519
2/24 W T16	598/200/56	2.0	42 918 523
2/28 W T16 <i>eco</i> ⁺	1198/200/56	3.2	42 918 524
2/35 W T16 <i>eco</i> ⁺	1498/200/56	4.8	42 918 527
2/49 W T16 <i>eco</i> ⁺	1498/200/56	4.8	42 918 529
2/54 W T16	1198/200/85	3.2	42 181 084
Electronic ballast for module 600			
1/28 W T16	1198/114/85	2.8	42 174 952
1/35 W T16	1498/114/85	3.5	42 174 958
1/49 W T16	1498/114/85	3.5	42 174 964
1/54 W T16	1198/114/85	2.8	42 174 967
2/14 W T16	598/200/56	2.0	42 174 973
2/24 W T16	598/200/56	2.0	42 174 977
2/28 W T16	1198/200/56	3.2	42 174 979
2/35 W T16	1498/200/56	4.8	42 176 000
2/49 W T16	1498/200/56	4.8	42 176 006
2/54 W T16	1198/200/85	3.2	42 181 085
Dimmable for module 625			
1/28 W T16 <i>eco</i> ⁺	1248/114/85	3.1	42 918 356
1/35 W T16 <i>eco</i> ⁺	1548/114/85	3.9	42 918 359
1/49 W T16 <i>eco</i> ⁺	1548/114/85	3.9	42 918 360
1/54 W T16	1248/114/85	3.1	42 918 362
2/14 W T16 <i>eco</i> ⁺	623/200/56	2.2	42 918 363
2/24 W T16	623/200/56	2.2	42 918 365
2/28 W T16 <i>eco</i> ⁺	1248/200/56	3.6	42 918 367
2/35 W T16 <i>eco</i> ⁺	1548/200/56	3.6	42 918 369
2/49 W T16 <i>eco</i> ⁺	1548/200/56	3.6	42 918 371
2/54 W T16	1248/200/85	3.6	42 181 082
Electronic ballast for module 625			
1/28 W T16	1248/114/85	3.1	42 174 953
1/35 W T16	1548/114/85	3.9	42 174 959
1/49 W T16	1548/114/85	3.9	42 174 965
1/54 W T16	1248/114/85	3.1	42 174 968
2/14 W T16	623/200/56	2.2	42 174 974
2/24 W T16	623/200/56	2.2	42 174 978
2/28 W T16	1248/200/56	3.6	42 174 980
2/35 W T16	1548/200/56	3.6	42 176 001
2/49 W T16	1548/200/56	3.6	42 176 007
2/54 W T16	1248/200/85	3.6	42 181 083

Accessory





Ceiling-mounting kit SET BEF FE/LF/MLIV/CLEAN	22 062 229
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MIREL2 T16 FEC2 65° Comfort louvre, single luminaire



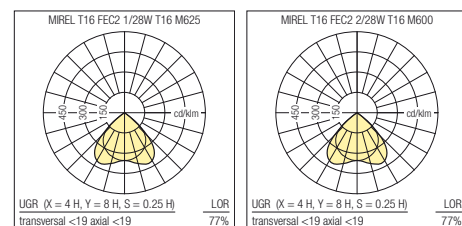
- [...]
 - Semi-matt Bivergenz®plus optic with UniQue vane technology
 - Glare control for DSE workstations $L < 1000 \text{ cd/m}^2$ at 65°
 - The “dim²save” luminaires contain an electronic ballast that can be dimmed by momentary-action switch or using DIMLITE

	L/W/H	kg	Order no.
Dimmable for module 600			
<i>dim²save</i>			
1/28 W T16 eco* ▽	1198/114/85	2.8	42 918 533
1/35 W T16 eco* ▽	1498/114/85	3.5	42 918 536
1/49 W T16 eco* ▽	1498/114/85	3.5	42 918 539
1/54 W T16 ▽	1198/114/85	2.8	42 918 542
2/14 W T16 eco* ▽	598/200/56	2.0	42 918 544
2/24 W T16 ▽	598/200/56	2.0	42 918 546
2/35 W T16 eco* ▽	1498/200/56	4.8	42 918 550
2/49 W T16 eco* ▽	1498/200/56	4.8	42 918 552
2/54 W T16  ▽	1198/200/85	3.2	42 181 088
Electronic ballast for module 600			
<i>electronic</i>			
1/28 W T16 ▽	1198/114/85	2.8	42 174 881
1/35 W T16 ▽	1498/114/85	3.5	42 174 910
1/49 W T16 ▽	1498/114/85	3.5	42 174 916
1/54 W T16 ▽	1198/114/85	2.8	42 174 919
2/14 W T16 ▽	598/200/56	2.0	42 174 925
2/24 W T16 ▽	598/200/56	2.0	42 174 929
2/35 W T16 ▽	1498/200/56	4.8	42 174 937
2/49 W T16 ▽	1498/200/56	4.8	42 174 943
2/54 W T16  ▽	1198/200/85	3.2	42 181 089
Dimmable for module 625			
<i>dim²save</i>			
1/28 W T16 eco* G ▽	1248/114/85	3.1	42 918 374
1/35 W T16 eco* G ▽	1548/114/85	3.9	42 918 375
1/49 W T16 eco* G ▽	1548/114/85	3.9	42 918 377
1/54 W T16 ▽	1248/114/85	3.1	42 918 379
2/14 W T16 eco* ▽	623/200/56	2.2	42 918 380
2/24 W T16 ▽	623/200/56	2.2	42 918 382
2/28 W T16 eco* ▽	1248/200/56	3.6	42 918 384
2/35 W T16 eco* G ▽	1548/200/56	5.3	42 918 390
2/49 W T16 eco* G ▽	1548/200/56	5.3	42 918 391
2/54 W T16  ▽	1248/200/85	3.6	42 181 086
Electronic ballast for module 625			
<i>electronic</i>			
1/28 W T16 G ▽	1248/114/85	3.1	42 174 882
1/35 W T16 G ▽	1548/114/85	3.9	42 174 911
1/49 W T16 G ▽	1548/114/85	3.9	42 174 917
1/54 W T16 ▽	1248/114/85	3.1	42 174 920
2/14 W T16 ▽	623/200/56	2.2	42 174 926
2/24 W T16 ▽	623/200/56	2.2	42 174 930
2/28 W T16 ▽	1248/200/56	3.6	42 174 932
2/35 W T16 G ▽	1548/200/56	5.3	42 174 938
2/49 W T16 G ▽	1548/200/56	5.3	42 174 944
2/54 W T16  ▽	1248/200/85	3.6	42 181 087

Accessory

Ceiling-mounting kit SET BEF FE/LF/MLIV/CLEAN

22 062 229



MIREL2 T16 FEL2 white louvre, single luminaire

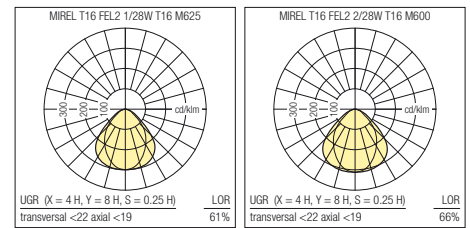


- [...]
 - White painted louvre optic with V-blades
 - Glare control for simple applications such as adjoining rooms

	L/W/H	kg	Order no.
For module 625			
1/28 W T16 ▽	1248/114/85	2.9	42 176 016
1/35 W T16 ▽	1548/114/85	3.9	42 176 022
1/49 W T16 ▽	1548/114/85	3.5	42 176 028
1/54 W T16 ▽	1248/114/85	2.9	42 176 031
2/14 W T16 ▽	623/200/56	5.3	42 176 037
2/24 W T16 ▽	623/200/56	5.3	42 176 041
2/28 W T16 ▽	1248/200/56	4.4	42 176 043
2/35 W T16 ▽	1548/200/56	4.2	42 176 049
2/49 W T16 ▽	1548/200/56	4.2	42 176 055
2/54 W T16 ⚡	1248/200/85	4.4	42 181 080
For module 600			
1/28 W T16 ▽	1198/114/85	2.6	42 176 015
1/35 W T16 ▽	1198/114/85	3.5	42 176 021
1/49 W T16 ▽	1498/114/85	3.5	42 176 027
1/54 W T16 ▽	1198/114/85	2.6	42 176 030
2/14 W T16 ▽	598/200/56	5.0	42 176 036
2/24 W T16 ▽	598/200/56	5.0	42 176 040
2/28 W T16 ▽	1198/200/56	3.9	42 176 042
2/35 W T16 ▽	1498/200/56	3.9	42 176 048
2/49 W T16 ▽	1498/200/56	3.9	42 176 054
2/54 W T16 ⚡	1198/200/85	3.9	42 181 081

Accessory

Ceiling-mounting kit SET BEF FE/LF/MLIV/CLEAN	22 062 229
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MIREL2 T16 | Continuous row



|...| Shared properties MIREL T16

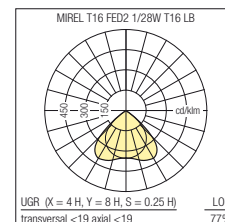
- White-painted sheet-steel housing
- Integrated ventilation apertures available on request
- 3-pole terminal block or 5-pole terminal block for dimmable version
- For ceilings with concealed or exposed trunking and for sawn cut-outs
- Luminaire pre-wired using halogen-free leads
- Please order parts for ends separately
- Mounting kit is needed for concealed carrier systems and sawn cut-outs
- LINECT®-compatible connecting terminal is optionally available
- Convenient electrical connection

MIREL2 T16 FED2 60°/65° Darklight louvre, continuous row



- |...|
- Highly specular Bivergenz®plus optic with UniQue vane technology
- Glare control for DSE workstations $L < 200 \text{ cd/m}^2$ at 60°/65°
- The “dim²save” luminaires contain an electronic ballast that can be dimmed by momentary-action switch or using DIMLITE

	L/W/H	kg	Order no.
Dimmable continuous row luminaire			
<i>dim²save</i>			
1/28 W T16 <i>eco</i> ⁺ ▽	1174/114/85	2.8	42 918 396
1/35 W T16 <i>eco</i> ⁺ ▽	1474/114/85	3.5	42 918 399
1/49 W T16 <i>eco</i> ⁺ ▽	1474/114/85	3.5	42 918 403
1/54 W T16 ▽	1174/114/85	2.8	42 918 404
2/28 W T16 <i>eco</i> ⁺ ▽	1174/200/85	3.2	42 918 407
2/35 W T16 <i>eco</i> ⁺ ▽	1474/200/85	4.8	42 918 409
2/49 W T16 <i>eco</i> ⁺ ▽	1474/200/85	4.8	42 918 411
2/54 W T16 	1174/200/85	3.2	42 918 414
Continuous row luminaire with electronic ballast			
<i>electronic</i>			
1/28 W T16 ▽	1174/114/85	2.8	42 174 956
1/35 W T16 ▽	1474/114/85	3.5	42 174 962
1/49 W T16 ▽	1474/114/85	3.5	42 174 966
1/54 W T16 ▽	1174/114/85	2.8	42 174 971
2/28 W T16 ▽	1174/200/85	3.2	42 174 983
2/35 W T16 ▽	1474/200/85	4.8	42 176 004
2/49 W T16 ▽	1474/200/85	4.8	42 176 008
2/54 W T16 	1174/200/85	3.2	42 176 013
Accessory			
Ceiling-mounting kit SET BEF FE/LF/MLIV/CLEAN			22 062 229
Front-end piece FE2 114 x 12 1 lamp			22 161 703
Front-end piece FE2 200 x 12 2 lamps			22 161 704

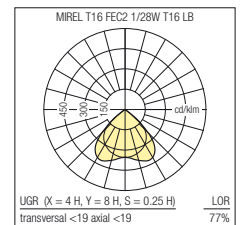


MIREL2 T16 FEC2 65° Comfort louvre, continuous row



- [...]
 - Semi-matt Bivergenz®plus optic with UniQue vane technology
 - Glare control for DSE workstations $L < 1000 \text{ cd/m}^2$ at 65°
 - The "dim²save" luminaires contain an electronic ballast that can be dimmed by momentary-action switch or using DIMLITE

	L/W/H	kg	Order no.
Dimmable continuous row luminaire			
			<i>dim²save</i>
1/28 W T16 <i>eco+</i> ▽	1198/114/85	2.8	42 918 416
1/35 W T16 <i>eco+</i> ▽	1498/114/85	3.5	42 918 419
1/49 W T16 <i>eco+</i> ▽	1498/114/85	3.5	42 918 421
1/54 W T16 ▽	1198/114/85	2.8	42 918 424
2/28 W T16 <i>eco+</i> ▽	1198/200/85	3.2	42 918 427
2/35 W T16 <i>eco+</i> ▽	1498/200/85	3.6	42 918 428
2/49 W T16 <i>eco+</i> ▽	1498/200/85	3.6	42 918 431
2/54 W T16 ⚡	1198/200/85	3.2	42 918 432
Continuous row luminaire with electronic ballast			
			<i>electronic</i>
1/28 W T16 ▽	1198/114/85	2.8	42 174 908
1/35 W T16 ▽	1498/114/85	3.5	42 174 914
1/49 W T16 ▽	1498/114/85	3.5	42 174 918
1/54 W T16 ▽	1198/114/85	2.8	42 174 923
2/28 W T16 ▽	1198/200/85	3.2	42 174 935
2/35 W T16 ▽	1498/200/85	3.6	42 174 941
2/49 W T16 ▽	1498/200/85	3.6	42 174 945
2/54 W T16 ⚡	1198/200/85	3.2	42 174 950
Accessory			
Ceiling-mounting kit SET BEF FE/LF/MLIV/CLEAN			22 062 229
Front-end piece FE2 114 x 12 1 lamp			22 161 703
Front-end piece FE2 200 x 12 2 lamps			22 161 704

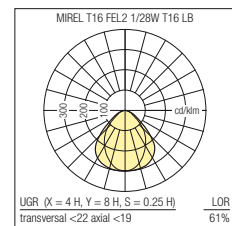


MIREL2 T16 FEL2 white louvre, continuous row



- [...]
 - White painted louvre optic with V-blades
 - Glare control for simple applications such as adjoining rooms

	L/W/H	kg	Order no.
Continuous-row luminaire			
1/28 W T16 ▽	1174/114/85	2.6	42 176 019
1/35 W T16 ▽	1474/114/85	3.5	42 176 025
1/49 W T16 ▽	1474/114/85	3.5	42 176 029
1/54 W T16 ▽	1174/114/85	2.6	42 176 034
2/28 W T16 ▽	1174/200/85	3.9	42 176 046
2/35 W T16 ▽	1474/200/85	4.1	42 176 052
2/49 W T16 ▽	1474/200/85	4.1	42 176 056
2/54 W T16 ⚡	1174/200/85	3.9	42 176 061
Accessory			
Ceiling-mounting kit SET BEF FE/LF/MLIV/CLEAN			22 062 229
Front-end piece FE2 114 x 12 1 lamp			22 161 703
Front-end piece FE2 200 x 12 2 lamps			22 161 704



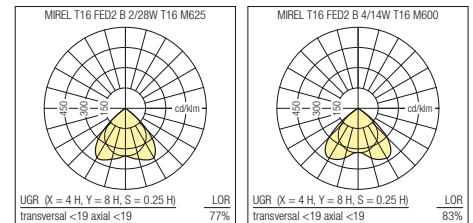
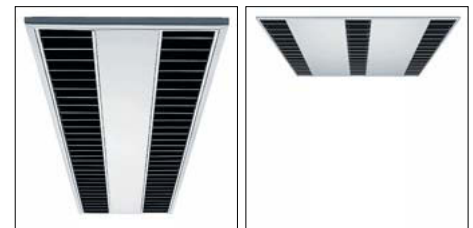
- For lay-in installation in exposed trunking
- White-painted sheet-steel housing
- Integrated ventilation apertures available on request
- With Wieland plug-in connection system, including plug and socket
- 3-pole terminal block or 5-pole terminal block for dimmable version
- Supplied ready for installation, with pre-fitted lamp and protective film cover
- Luminaire pre-wired using halogen-free leads
- Please order cable connector separately
- LINECT[®]-compatible connecting terminal is optionally available
- Convenient electrical connection

MIREL2 T16 FED2 B 60°/65° Darklight louvre, Infill Complete



- [...]
- Highly specular Bivergenz[®]plus optic with UniQue vane technology
- Glare control for DSE workstations L < 200 cd/m² at 60°/65°
- The "dim²save" luminaires contain an electronic ballast that can be dimmed by momentary-action switch or using DIMLITE

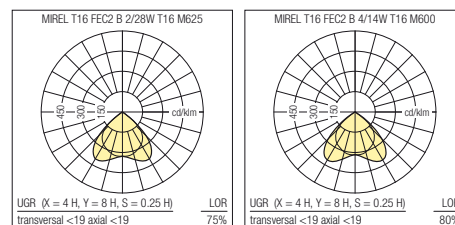
	L/W/H	kg	Order no.
Dimmable for module 600			
with plug-in terminal and F830 lamp			
2/28 W T16 <i>eco</i> ⁺	1198/298/53	4.5	42 918 564
3/14 W T16	598/598/53	3.9	42 918 569
4/14 W T16 <i>eco</i> ⁺	598/598/53	3.9	42 918 571
for module 600 with plug-in terminal and F830 lamp			
2/28 W T16	1198/298/53	4.5	42 176 141
3/14 W T16	598/598/53	3.9	42 176 165
4/14 W T16	598/598/53	3.9	42 176 183
Dimmable for module 600			
with plug-in terminal and F840 lamp			
2/28 W T16 <i>eco</i> ⁺	1198/298/53	4.5	42 918 567
3/14 W T16	598/598/53	3.9	42 918 570
4/14 W T16 <i>eco</i> ⁺	598/598/53	3.9	42 918 573
for module 600 with plug-in terminal and F840 lamp			
2/28 W T16	1198/298/53	4.5	42 176 142
3/14 W T16	598/598/53	3.9	42 176 166
4/14 W T16	598/598/53	3.9	42 176 184
Dimmable for module 625			
with plug-in terminal and F840 lamp			
2/28 W T16 <i>eco</i> ⁺	1248/310/53	4.9	42 178 310
3/14 W T16	623/623/53	4.2	42 918 462
4/14 W T16 <i>eco</i> ⁺	623/623/53	4.2	42 918 469
for module 625 with F840 lamp			
2/28 W T16	1248/310/53	4.9	42 176 145
3/14 W T16	623/623/53	4.2	42 176 169
4/14 W T16	623/623/53	4.2	42 176 187



MIREL2 T16 FEC2 B 65° Comfort louvre, Infill Complete


- [...]]
- Semi-matt Bivergenz®plus optic with UniQue vane technology
- Glare control for DSE workstations $L < 1000 \text{ cd/m}^2$ at 65°
- The "dim²save" luminaires contain an electronic ballast that can be dimmed by momentary-action switch or using DIMLITE

	L/W/H	kg	Order no.
Dimmable for module 600			
with plug-in terminal and F830 lamp			
			<i>dim²save</i>
2/28 W T16 <i>eco</i> ⁺	1198/298/53	4.5	42 918 576
3/14 W T16	598/598/53	3.9	42 918 579
4/14 W T16	598/598/53	3.9	42 918 584
for module 600 with plug-in terminal and F830 lamp			
			<i>electronic</i>
2/28 W T16	1198/298/53	4.5	42 176 074
3/14 W T16	598/598/53	3.9	42 176 098
4/14 W T16	598/598/53	3.9	42 176 114
Dimmable for module 600			
with plug-in terminal and F840 lamp			
			<i>dim²save</i>
2/28 W T16 <i>eco</i> ⁺	1198/298/53	4.5	42 918 577
3/14 W T16	598/598/53	3.9	42 918 582
4/14 W T16	598/598/53	3.9	42 918 587
for module 600 with plug-in terminal and F840 lamp			
			<i>electronic</i>
2/28 W T16	1198/298/53	4.5	42 176 075
3/14 W T16	598/598/53	3.9	42 176 099
4/14 W T16	598/598/53	3.9	42 176 115
Dimmable for module 625			
with plug-in terminal and F840 lamp			
			<i>dim²save</i>
2/28 W T16 <i>eco</i> ⁺	1248/310/53	4.9	42 918 475
3/14 W T16	623/623/53	4.2	42 918 480
4/14 W T16	623/623/53	4.2	42 918 485
for module 625 with F840 lamp			
			<i>electronic</i>
2/28 W T16	1248/310/53	4.9	42 176 078
3/14 W T16	623/623/53	4.2	42 176 101
4/14 W T16	623/623/53	4.2	42 176 118

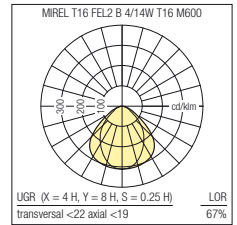
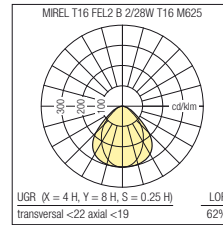


MIREL2 T16 FEL2 B white louvre, Infill Complete



- [...]
 - White painted louvre optic with V-blades
 - Glare control for simple applications such as adjoining rooms

	L/W/H	kg	Order no.
for module 625 with F840 lamp			
2/28 W T16	1248/310/53	4.2	42 176 213 <i>electronic</i>
3/14 W T16	623/623/53	4.1	42 176 237
4/14 W T16	623/623/53	4.1	42 176 255
for module 600 with plug-in terminal and F830 lamp			
2/28 W T16	1198/298/53	4.2	42 176 209 <i>electronic</i>
3/14 W T16	598/598/53	3.9	42 176 233
4/14 W T16	598/598/53	3.9	42 176 251
for module 600 with plug-in terminal and F840 lamp			
2/28 W T16	1198/298/53	4.2	42 176 210 <i>electronic</i>
3/14 W T16	598/598/53	3.9	42 176 234
4/14 W T16	598/598/53	3.9	42 176 252



MIREL2 T16 | Infill

[...] Shared properties MIREL T16 Infill

- White-painted sheet-steel housing
- Integrated ventilation apertures available on request
- 3-pole terminal block or 5-pole terminal block for dimmable version
- For ceilings with concealed or exposed trunking and for sawn cut-outs
- Luminaire pre-wired using halogen-free leads
- Mounting kit is needed for concealed carrier systems and sawn cut-outs
- LINECT®-compatible connecting terminal is optionally available
- Convenient electrical connection

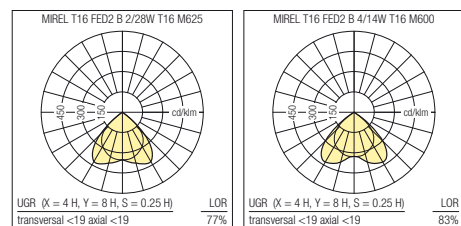
MIREL2 T16 FED2 60°/65° Darklight louvre, infill



- [...] Highly specular Bivergenz®plus optic with UniQue vane technology
- Glare control for DSE workstations L < 200 cd/m² at 60°/65°
- The "dim²save" luminaires contain an electronic ballast that can be dimmed by momentary-action switch or using DIMLITE

	L/W/H	kg	Order no.
Dimmable for module 600			
2/14 W T16 <i>eco*</i> ▾	598/298/53	2.3	42 918 589
2/24 W T16 M600x300 <i>eco*</i> ▾	598/298/53	2.3	42 918 593
2/28 W T16 <i>eco*</i> ▾	1198/298/53	4.5	42 918 595
2/35 W T16 <i>eco*</i> ▾	1498/298/53	5.6	42 918 598
2/49 W T16 <i>eco*</i> ▾	1498/298/53	5.6	42 918 601
2/54 W T16	1198/298/53	4.5	42 918 603
3/14 W T16 ▾	598/598/53	3.9	42 918 607
3/24 W T16 ▾	598/598/53	3.9	42 918 610
4/14 W T16 <i>eco*</i> ▾	598/598/53	3.9	42 918 613
4/24 W T16 ▾	598/598/53	3.9	42 918 615
Electronic ballast for module 600			
2/14 W T16 ▾	598/298/53	2.3	42 176 130
2/24 W T16 M600x300 ▾	598/298/53	2.3	42 176 134
2/28 W T16 ▾	1198/298/53	4.5	42 176 140
2/35 W T16 ▾	1498/298/53	5.6	42 176 154
2/49 W T16 ▾	1498/298/53	5.6	42 176 158
2/54 W T16	1198/298/53	4.5	42 176 160
3/14 W T16 ▾	598/598/53	3.9	42 176 164
3/24 W T16 ▾	598/598/53	3.9	42 176 178
4/14 W T16 ▾	598/598/53	3.9	42 176 182
4/24 W T16 ▾	598/598/53	3.9	42 176 196
Dimmable for module 625			
2/14 W T16 <i>eco*</i> ▾	623/310/53	2.5	42 918 489
2/24 W T16 M625x312 ▾	623/310/53	2.4	42 918 491
2/28 W T16 <i>eco*</i> ▾	1248/310/53	4.9	42 918 493
2/35 W T16 <i>eco*</i> ▾	1548/310/53	6.1	42 918 496
2/49 W T16 <i>eco*</i> ▾	1548/310/53	6.1	42 918 499
2/54 W T16	1248/310/53	4.9	42 918 502
3/14 W T16 ▾	623/623/53	4.2	42 918 507
3/24 W T16 ▾	623/623/53	4.2	42 918 513
4/14 W T16 <i>eco*</i> ▾	623/623/53	4.2	42 918 515
4/24 W T16 ▾	623/623/53	4.2	42 918 518
Electronic ballast for module 625			
2/14 W T16 ▾	623/310/53	2.5	42 176 131
2/24 W T16 M625x312 ▾	623/310/53	2.4	42 176 136
2/28 W T16 ▾	1248/310/53	4.9	42 176 144
2/35 W T16 ▾	1548/310/53	6.1	42 176 155
2/49 W T16 ▾	1548/310/53	6.1	42 176 159
2/54 W T16 ▾	1248/310/53	4.9	42 176 161
3/14 W T16 ▾	623/623/53	4.2	42 176 168
3/24 W T16 ▾	623/623/53	4.2	42 176 179
4/14 W T16 ▾	623/623/53	4.2	42 176 186
4/24 W T16 ▾	623/623/53	4.2	42 176 197

Accessory
Ceiling-mounting kit SET BEF FE/LF/MLIV/CLEAN 22 062 229



MIREL2 T16 FEC2 B 65° Comfort louvre, Infill



- [...]
 - Semi-matt Bivergenz®plus optic with UniQue vane technology
 - Glare control for DSE workstations $L < 1000 \text{ cd/m}^2$ at 65°
 - The “dim²save” luminaires contain an electronic ballast that can be dimmed by momentary-action switch or using DIMLITE

	L/W/H	kg	Order no.
Dimmable for module 600			
2/14 W T16 <i>eco</i> ⁺	598/298/53	2.3	42 918 617
2/24 W T16 M600x300	598/298/53	2.3	42 918 619
2/28 W T16 <i>eco</i> ⁺	1198/298/53	4.5	42 918 631
2/35 W T16 <i>eco</i> ⁺	1498/298/53	5.6	42 918 635
2/49 W T16 <i>eco</i> ⁺	1498/298/53	5.6	42 918 637
2/54 W T16	1198/298/53	4.5	42 918 638
3/14 W T16	598/598/53	3.9	42 918 641
3/24 W T16	598/598/53	3.9	42 918 642
4/14 W T16	598/598/53	3.9	42 918 645
4/24 W T16	598/598/53	3.9	42 918 647

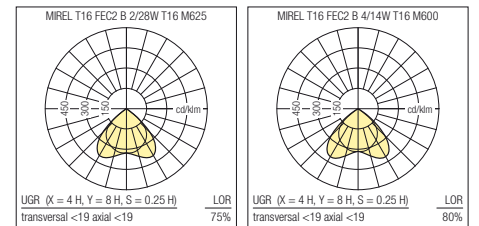
Electronic ballast for module 600			
2/14 W T16	598/298/53	2.3	42 176 063
2/24 W T16 M600x300	598/298/53	2.3	42 176 067
2/28 W T16	1198/298/53	4.5	42 174 884
2/35 W T16	1498/298/53	5.6	42 176 087
2/49 W T16	1498/298/53	5.6	42 176 091
2/54 W T16	1198/298/53	4.5	42 176 093
3/14 W T16	598/598/53	3.9	42 176 097
3/24 W T16	598/598/53	3.9	42 176 110
4/14 W T16	598/598/53	3.9	42 174 886
4/24 W T16	598/598/53	3.9	42 176 127

Dimmable for module 625			
2/14 W T16 <i>eco</i> ⁺	623/310/53	2.5	42 918 522
2/24 W T16 M625x312 <i>eco</i> ⁺	623/310/53	2.4	42 918 525
2/28 W T16 <i>eco</i> ⁺	1248/310/53	4.9	42 918 528
2/35 W T16 <i>eco</i> ⁺	1548/310/53	6.1	42 918 531
2/49 W T16 <i>eco</i> ⁺	1548/310/53	6.1	42 918 535
2/54 W T16	1248/310/53	4.9	42 918 538
3/14 W T16	623/623/53	4.2	42 918 541
3/24 W T16	623/623/53	4.2	42 918 543
4/14 W T16	623/623/53	4.2	42 918 545
4/24 W T16	623/623/53	4.2	42 918 547

Electronic ballast for module 625			
2/14 W T16	623/310/53	2.5	42 176 064
2/24 W T16 M625x312	623/310/53	2.4	42 176 069
2/28 W T16	1248/310/53	4.9	42 176 077
2/35 W T16	1548/310/53	6.1	42 176 088
2/49 W T16	1548/310/53	6.1	42 176 092
2/54 W T16	1248/310/53	4.9	42 176 094
3/14 W T16	623/623/53	4.2	42 174 885
3/24 W T16	623/623/53	4.2	42 176 111
4/14 W T16	623/623/53	4.2	42 176 117
4/24 W T16	623/623/53	4.2	42 176 128

Accessory

Ceiling-mounting kit SET BEF FE/LF/MLIV/CLEAN	22 062 229
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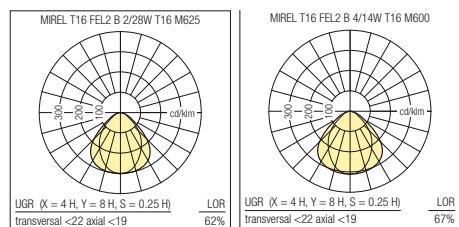


MIREL2 T16 FEL2 B white louvre, infill

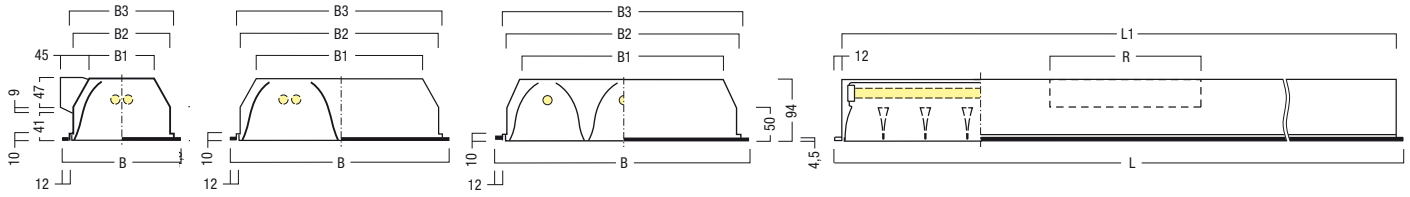


- [...]
 - White painted louvre optic with V-blades
 - Glare control for simple applications such as adjoining rooms

	L/W/H	kg	Order no.
For module 625			
2/14 W T16 ▽	623/310/53	2.5	42 176 199
2/24 W T16 M625x312 ▽	623/310/53	2.4	42 176 204
2/28 W T16 ▽	1248/310/53	4.2	42 176 212
2/35 W T16 ▽	1548/310/53	5.2	42 176 223
2/49 W T16 ▽	1548/310/53	5.2	42 176 227
2/54 W T16 ⚡	1248/310/53	4.2	42 176 229
3/14 W T16 ▽	623/623/53	4.1	42 176 236
3/24 W T16 ▽	623/623/53	4.1	42 176 247
4/14 W T16 ▽	623/623/53	4.1	42 176 254
4/24 W T16 ▽	623/623/53	4.1	42 176 265
For module 600			
2/14 W T16 ▽	598/298/53	2.2	42 176 198
2/24 W T16 M600x300 ▽	598/298/53	2.2	42 176 202
2/28 W T16 ▽	1198/298/53	4.2	42 176 208
2/35 W T16 ▽	1498/298/53	4.7	42 176 222
2/49 W T16 ▽	1498/298/53	4.7	42 176 226
2/54 W T16 ⚡	1198/298/53	4.2	42 176 228
3/14 W T16 ▽	598/598/53	3.9	42 176 232
3/24 W T16 ▽	598/598/53	3.9	42 176 246
4/14 W T16 ▽	598/598/53	3.9	42 176 250
4/24 W T16 ▽	598/598/53	3.9	42 176 264
Accessory			
Ceiling-mounting kit SET BEF FE/LF/MLIV/CLEAN			22 062 229



Dimensions MIREL T16 RES-BWS



Module 625	L	B	L ₁	B ₁	B ₂	B ₃	R	L/DA		B/DA	
								1	2	1	2
1/80 W	1548	184	1526	100	151	162	652	1532	168		
2/54 W	1248	184	1226	100	151	162	-	1232	168		
2/80 W	1548	184	1526	100	151	162	-	1532	168		
3/80 W	1548	623	1526	539	590	601	-	1532	607		

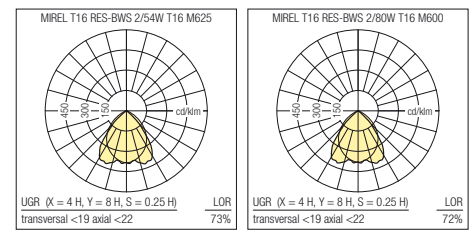
Module 600	L	B	L ₁	B ₁	B ₂	B ₃	R	L/DA		B/DA	
								1	2	1	2
1/80 W	1498	184	1476	100	151	162	652	1482	168		
2/54 W	1198	184	1176	100	151	162	-	1182	168		
2/80 W	1498	184	1476	100	151	162	-	1482	168		
3/80 W	1498	598	1476	514	565	601	-	1482	582		

MIREL T16 RES-BWS stepped-vane optic, sports-hall luminaire



- Highly specular Bivergent® optic with semi-matt roll-formed cross vanes
- Louvre is highly stable thanks to integral steel bars. Luminaire is certified to DIN 18032
- High light output ratio and excellent glare control for applications in sports facilities
- For ceilings with concealed or exposed trunking and for sawn cut-outs
- Luminaire consisting of sheet steel housing, white stove-enamelled
- Luminaire pre-wired using halogen-free leads
- Mounting kit is needed for concealed carrier systems and sawn cut-outs
- When 2/80 W lamps are used, allow for 2 electronic ballasts in the addressing
- For dimmable basic 3/80 W lamps, allow for three electronic ballasts for addressing
- LINECT®-compatible connecting terminal is optionally available
- Convenient electrical connection
- The "dim²save" luminaires contain an electronic ballast that can be dimmed by momentary-action switch or using DIMLITE

	L/W/H	kg	Order no.
Dimmable for module 600			
<i>dim²save</i>			
1/80 W T16	1498/184/94	5.0	42 918 649
2/54 W T16	1198/184/94	4.3	42 918 652
2/80 W T16	1498/184/94	5.0	42 918 654
3/80 W T16	1498/598/94	5.2	42 918 656
Electronic ballast for module 600			
<i>electronic</i>			
1/80 W T16	1498/184/94	5.0	42 156 964
2/54 W T16	1198/184/94	4.3	42 156 960
2/80 W T16	1498/184/94	5.0	42 156 966
3/80 W T16	1498/598/94	5.2	42 156 968
Dimmable for module 625			
<i>dim²save</i>			
1/80 W T16	1548/184/94	5.3	42 918 551
2/54 W T16	1248/184/94	4.6	42 918 555
2/80 W T16	1548/184/94	5.3	42 918 558
3/80 W T16	1548/623/94	5.6	42 918 563
Electronic ballast for module 625			
<i>electronic</i>			
1/80 W T16	1548/184/94	5.3	42 156 965
2/54 W T16	1248/184/94	4.6	42 156 961
2/80 W T16	1548/184/94	5.3	42 156 967
3/80 W T16	1548/623/94	5.6	42 156 969



MIREL T16 FEW



- Highly optimised wallwasher optic
- Removable front-end pieces for continuous row installation with uninterrupted reflector
- Asymmetrical light distribution, ideal for uniform illumination of wall surfaces
- For ceilings with concealed or exposed trunking and for sawn cut-outs
- Luminaire consisting of sheet steel housing, white stove-enamelled
- Luminaire pre-wired using halogen-free leads
- Minimum ceiling thickness required: 34 mm (please see installation instructions for further details)
- LINECT®-compatible connecting terminal is optionally available
- Convenient electrical connection
- The "dim²save" luminaires contain an electronic ballast that can be dimmed by momentary-action switch or using DIMLITE

Dimmable for module 600

	L/W/H	kg	Order no.
1/28 W T16 <i>eco+</i> ▽	1198/114/85	2.8	42 918 676
1/35 W T16 <i>eco+</i> ▽	1498/114/85	3.5	42 918 679
1/54 W T16 <i>eco+</i> ▽	1198/114/85	2.8	42 918 682
1/55 W TC-L ▽	598/200/85	2.0	42 918 684
1/80 W T16 <i>eco+</i> ▽	1498/114/85	3.5	42 918 686

Electronic ballast for module 600

	L/W/H	kg	Order no.
1/28 W T16 ▽	1198/114/85	2.8	42 159 254
1/35 W T16 ▽	1498/114/85	3.5	42 159 255
1/54 W T16 ▽	1198/114/85	2.8	42 159 256
1/55 W TC-L ▽	598/200/85	2.0	42 159 253
1/80 W T16 ▽	1498/114/85	3.5	42 159 257

Dimmable for module 625

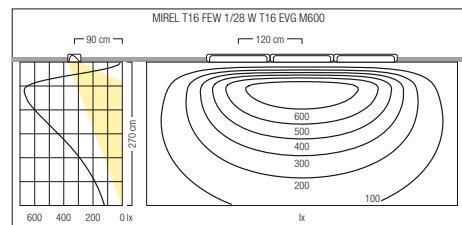
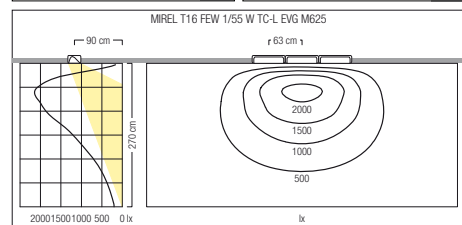
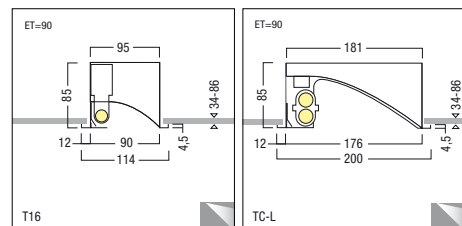
	L/W/H	kg	Order no.
1/28 W T16 <i>eco+</i> ▽	1248/114/85	3.1	42 918 602
1/35 W T16 <i>eco+</i> ▽	1548/114/85	3.9	42 918 605
1/54 W T16 <i>eco+</i> ▽	1248/114/85	3.1	42 918 609
1/55 W TC-L ▽	623/200/85	2.2	42 918 611
1/80 W T16 <i>eco+</i> ▽	1548/114/85	3.9	42 918 614
1/80 W TC-L	623/200/85	1.7	42 918 616

Electronic ballast for module 625

	L/W/H	kg	Order no.
1/28 W T16 ▽	1248/114/85	3.1	42 159 265
1/35 W T16 ▽	1548/114/85	3.9	42 159 266
1/54 W T16 ▽	1248/114/85	3.1	42 159 267
1/55 W TC-L ▽	623/200/85	2.2	42 159 263
1/80 W T16 ▽	1548/114/85	3.9	42 159 268
1/80 W TC-L	623/200/85	1.7	42 159 264

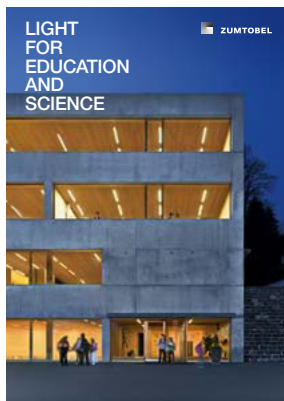
Accessory

Mounting kit for concealed ceiling systems and sawn cut-outs	
SET BEF FE/LF/MLIV/CLEAN	22 062 229





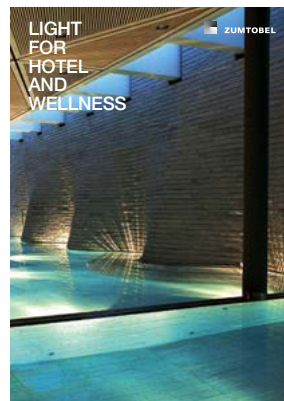
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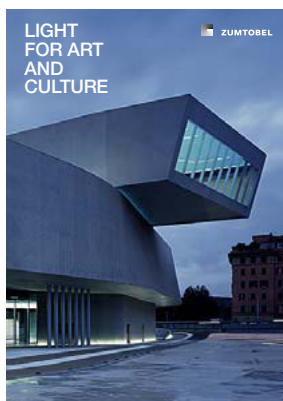
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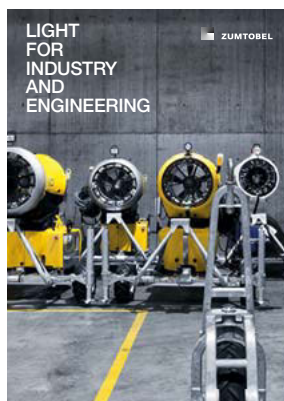
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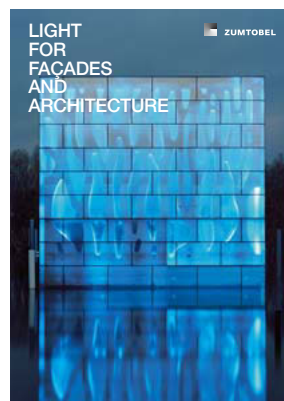
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Track and spots



Downlights



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Recessed luminaires



Surface-mounted and pendant luminaires



Free-standing luminaires



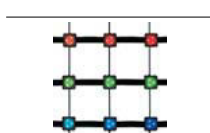
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