

Catalogue 2011 / 2012



KANDEM
Leuchten GmbH

A company of DR. FISCHER Group



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Supply via wholesale electrical supply companies.

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11 years after General Electric and not long after Westinghouse and AEG were founded, Max Körting and Wilhelm Mathiesen founded the general partnership KÖRTING & MATHIESEN on 1 August 1889, which soon afterwards became known under the international trademark of KANDEM.

Intensive research and development in internal laboratories, the advantage in lighting technology thus gained, purpose-orientated development methods and rationalised manufacturing techniques made KANDEM one of the leading light manufacturers in Europe before the National Socialist era.

The close cooperation with Walter Gropius's Bauhaus, started in 1928, also played an important part in this success. The development of new models was not orientated towards fashion but towards physical requirements for lights and optimum technical implementation. In this way the first fluorescent bulbs were manufactured in Germany in cooperation with AEG, SSW and Schanzenbach Leuchten.

After the war, the factory buildings were broken up and the company was dispossessed. In 1948 the company was deemed 'terminated' in the trade register. In the same year, Fritz Körting founded KANDEM - APPARATE- and LEUCHTENBAU GmbH, based in Limburg an der Lahn. And here too, success was achieved in developing and manufacturing light solutions innovatively, imaginatively and with a depth of knowledge that were amongst those of the highest quality on the market.



In 2001 the company became a part of the DR. FISCHER Group, which KANDEM complements ideally with its specialisation and competence.

The greatest strengths of the group include tailor-made, user-orientated special applications and complete solutions.

There is a special cooperation with DR. FISCHER LED GmbH, with which we are developing new, innovative solutions for trendsetting LED technology.

Today, KANDEM manufactures and supplies light fittings for nearly every field of application in offices, administrative buildings, sports facilities, trade and industry.

As a medium-sized company that is simultaneously part of a strong, globally active group we are predestined to provide customer-specific light solutions. Quick decision-making, qualified employees and cooperative customer relationships put us in the position to find suitable solutions quickly for nearly all requirements regarding internal and external lighting.



The headquarters of the DR. FISCHER Group in Diez an der Lahn is also the headquarters of KANDEM Leuchten GmbH.



Steindrucksaal at the C. G. Röder Book and Note Printers, Leipzig with lights from KÖRTING & MATHIESEN, 1899.

General lighting of a humidor with sealed KANDEM porcelain narrow angle light fittings, 1939.



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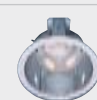

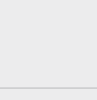
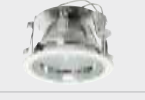






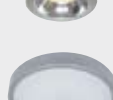

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Certification mark of the VDE (Verband der Elektrotechnik Elektronik Informatonstechnik e.V. – Association of Electrical Engineering, Electronics and Information Technology) for electrical appliances, installation material and components. It documents that the relevant safety standards have been fulfilled and contains the sign "Tested for safety".



European Norm Electrical Certification is a European testing and certification mark for lights, components, devices and components and attests to the adherence to the European standards for safety and work procedure.



The CE mark attests only to accordance with the basic requirements of the EU guidelines. The CE mark is used at the manufacturer's own responsibility and is not a safety mark.



The EMC mark stands for the electromagnetic compatibility of devices and systems. All Kadem lights are suppressed and can therefore be used universally without any additional measures in residential and industrial areas.



Protection against finger contact with active, live parts. (see table)



Protection against finger contact with active parts and the ingress of spray water. (see table)



Protection against finger contact with active, live parts with a 1 mm wire. (see table)



Protection against contact with live parts (tools /wires from 1 mm Ø upwards), the ingress of granular foreign bodies (1 mm Ø) or spray water (from all sides).



Dust-protected light. (see table)



Light protected against dust and splashing water.(see table)



Light protected against dust and spray. (see table)



Light protected against dust and jet water. (see table)



Lights suitable for fixing to normally flammable materials (DIN EN 60598/VDE 711)



Lights suitable for industrial premises that are in danger of fire because of dust or fibrous materials



Furniture lights with built-in ballasts (DIN VDE 711, part 14)



Lights tested for protection against flying balls (DIN 18032/part 3)



Lights in protection class I



Lights in protection class II (increased insulation value). Do not earth!

Protection types for lights To DIN 40050 and IEC 529 (electrical equipment) and VDE 0711 (Lights) IP (xy) (Ingress Protection).

The protection types for electrical equipment or lights are set out in DIN VDE 0711 and are marked according to the IP numbering system for indicating protection types. Here, the first number always indicates protection against accidental contact and protection from foreign bodies and the second water protection.

Protection grades for contact and foreign body protection		
1. Index of icons	Scope of protection	Explanation / designation
0.	No protection	No special protection of people from accidental contact with live or moving parts. No protection of equipment against the ingress of solid foreign bodies.
1.	Protection against large foreign bodies > 50 mm	Protection against accidental large-scale contact with live or internal moving parts, e.g. with the hand, but no protection against deliberate access to these parts. Protection against the ingress of solid foreign bodies with a diameter of greater than 50 mm.
2.	Protection against medium-sized foreign bodies > 12 mm	Protection against finger contact with live or internal moving parts. Protection against the ingress of solid foreign bodies with a diameter of greater than 12 mm.
3.	Protection against small foreign bodies > 2.5 mm	Protection against contact with live or moving parts with tools, wires or similar with a thickness of greater than 2.5 mm. Protection against the ingress of solid foreign bodies with a diameter of greater than 2.5 mm.
4.	Protection against granular foreign bodies > 1 mm	Protection against contact with live or moving parts with tools, wires or similar with a thickness of greater than 1 mm. Protection against the ingress of solid foreign bodies with a diameter of greater than 1 mm.
5.	Dust protected	Complete protection against contact with small live or internal moving parts. Protection against harmful dust formations. The ingress of dust is not completely prevented but dust must not be allowed to enter in amounts that are sufficient to impede work procedures.
6.	Dustproof	Complete protection against contact with small live or internal moving parts. Protection against the ingress of dust.

When mounting the lights, the installer must use the seals and cable inlets that belong to the light and install them properly in order to guarantee the protection type indicated. In accordance with DIN VDE 0710 or VDE 0711, lights are categorised into protection classes in accordance with the safety measures against excessive contact voltage.

Protection grades for protection against water		
2. Index of icons	Scope of protection	Explanation / designation
0.	No protection	No special protection.
1.	Protection against vertically falling water	Drops of water falling vertically must have no damaging effect
2.	Protection against diagonally falling dripping water	Drops of water that fall at an angle of up to 15° from the vertical must have no damaging effect.
3.	Protection against splashing	Drops of water that fall at an angle of up to 60° from the vertical must have no damaging effect.
4.	Protection against spray water	Water that sprays onto the equipment from all directions must have no damaging effect.
5.	Protection against jet water	A water jet that is sprayed onto the equipment from all directions must have no damaging effect.
6.	Protection in case of flooding	Water must not be allowed to permeate the equipment in harmful amounts if there is temporary flooding, e.g. due to heavy seas.
7.	Protection in case of immersion	Water must not be allowed to permeate the equipment in harmful amounts if it is immersed in water under the predetermined pressure and time conditions. Observe the manufacturer's information!
8.	Protection in case of longer periods of immersion	Water must not be allowed to permeate the equipment in harmful amounts if it is immersed in water under the predetermined pressure conditions and for an indefinite period of time. Observe the manufacturer's information!



Angelo

Architectural lighting

Designer lights made of aluminium
Direct or direct/indirect light beam

The use of forms, reduced to the bare essentials, means it can be used in almost any atmosphere. With Angelo, you are presenting pure light.

Mounted / suspended designer light made of aluminium direct/indirect light beam

The most striking feature of the Angelo light series is its use of forms, reduced to the bare essentials. The body is made of premium quality aluminium.

A presentation of pure light in public rooms and private areas. Suitable for general and office lighting (EN 12464-1).

AD 168 MP-S

Mounted light

Luminaire:

Extruded aluminium profile, white or silver powder-coated, with rounded corners (RAL 9016/RAL9006).

Optics:

Microprism optics made of microstructured special acrylic glass. Suitable for workplaces with monitors in accordance with EN 12464-1. Direct light distribution. Optimised for T5 fluorescent bulbs in terms of lighting technology.

Electrical equipment:

Electronic ballast (EVG).
Special editions possible, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:

Directly on the wall or ceiling.

PD 168 MP-S

Suspended light

Luminaire:

Extruded aluminium profile, white or silver powder-coated, with rounded corners (RAL 9016/RAL9006).

Optics:

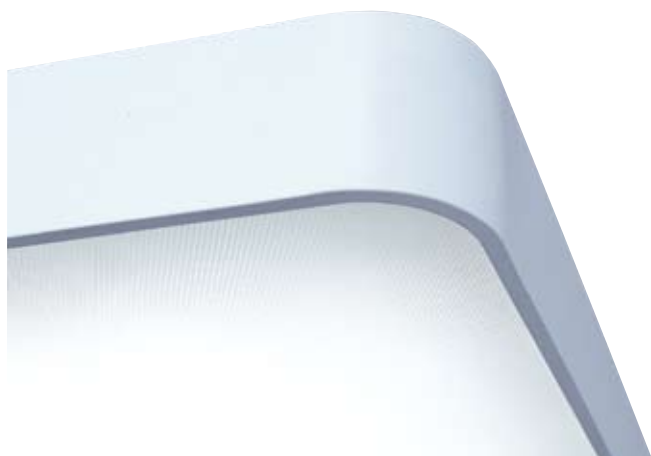
Microprism optics made of microstructured special acrylic glass. Suitable for workplaces with monitors in accordance with EN 12464-1. Direct/indirect light distribution. Optimised for T5 fluorescent bulbs in terms of lighting technology.

Electrical equipment:

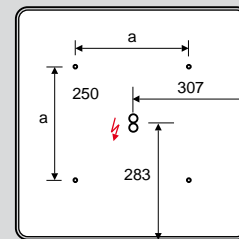
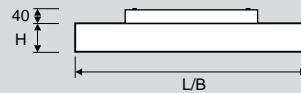
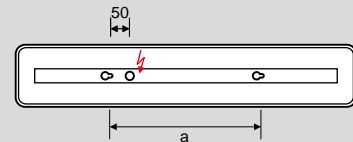
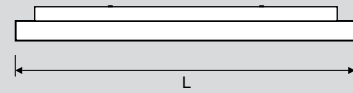
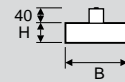
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:

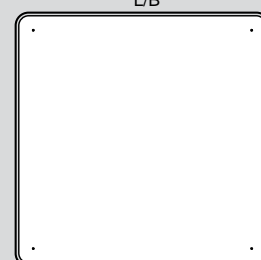
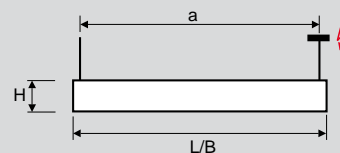
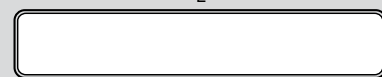
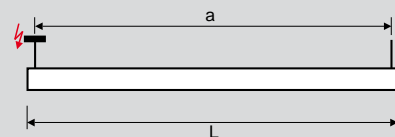
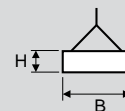
Tool-free and stepless vertically adjustable wire suspension with transparently coated lead.
Included in the delivery.



AD 168 MP-S



PD 168 MP-S

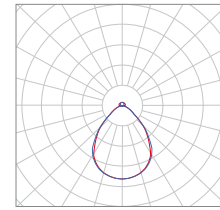


Mounted / suspended designer light made of aluminium
direct/indirect light beam



AD 168 MP-S

- microprism optics made of microstructured special acrylic glass
- suitable for workplaces with monitors in accordance with EN 12464-1
- direct light beam
- can be installed directly on a wall or ceiling

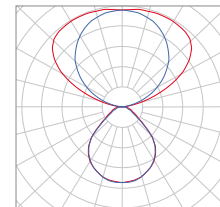


Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
AD 168MP-S si 2x28/54	T5	G5	1214	164	52+40	700	5,5	2820670
AD 168MP-S si 2x35/49	T5	G5	1514	164	52+40	1000	6,8	2820672
AD 168MP-S si 8x14	T5	G5	614	614	75+40	300	6,4	2820674
AD 168MP-S ws 2x28/54	T5	G5	1214	164	52+40	700	5,5	2820676
AD 168MP-S ws 2x35/49	T5	G5	1514	164	52+40	1000	6,8	2820678
AD 168MP-S ws 8x14	T5	G5	614	614	75+40	300	6,4	2820680



PD 168 MP-S

- microprism optics made of microstructured special acrylic glass
- suitable for workplaces with monitors in accordance with EN 12464-1
- direct/indirect light beam
- tool-free and stepless vertically adjustable wire suspension with transparently coated lead included



Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
PD 168MP-S si 2x28/54	T5	G5	1214	164	52	1180	5,1	2820652
PD 168MP-S si 2x35/49	T5	G5	1516	164	52	1480	5,6	2820654
PD 168MP-S si 8x14	T5	G5	614	614	75	580	6,6	2820656
PD 168MP-S ws 2x28/54	T5	G5	1214	164	52	1180	5,1	2820660
PD 168MP-S ws 2x35/49	T5	G5	1516	164	52	1480	5,6	2820662
PD 168MP-S ws 8x14	T5	G5	614	614	75	580	6,6	2820664

Designer free-standing luminaire made of aluminium direct/indirect light beam

SD 168 MP-S

Free-standing luminaire

Luminaire:

Extruded aluminium profile, white or silver powder-coated with rounded corners (RAL 9016/RAL9006).

Stand pipe available chromed on request.

Steel base, fluorescent powder-coated.

Cut-out for table leg in lamp base.

Optics:

Microprism optics made of microstructured special acrylic glass.

Suitable for workplaces with monitors in accordance with EN 12464-1

Direct/indirect light distribution.

Optimised for TC-L fluorescent bulbs in terms of lighting technology.

Electrical equipment:

Electronic ballast (EVG).

Either two-stage switchable, stepless dimmable or stepless dimmable

with integrated sensor for daylight-dependent control and presence

detector.

Switch positioned ergonomically in the lamp pole.

TD 168 MP-S

Table light

Luminaire:

Extruded aluminium profile, white or silver powder-coated, with rounded corners (RAL 9016/RAL9006).

Stand pipe available chromed on request.

Optics:

Microprism optics made of microstructured special acrylic glass.

Suitable for workplaces with monitors in accordance with EN 12464-1

Direct/indirect light distribution.

Optimised for T5 fluorescent bulbs in terms of lighting technology.

Electrical equipment:

Electronic ballast (EVG).

Either two-stage switchable, stepless dimmable or stepless dimmable

with integrated sensor for daylight-dependent control and presence

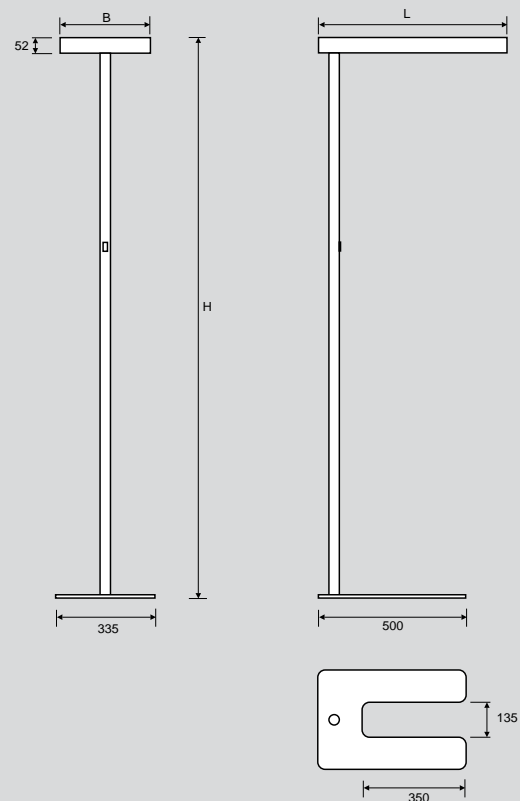
detector.

Switch positioned ergonomically in the lamp pole.

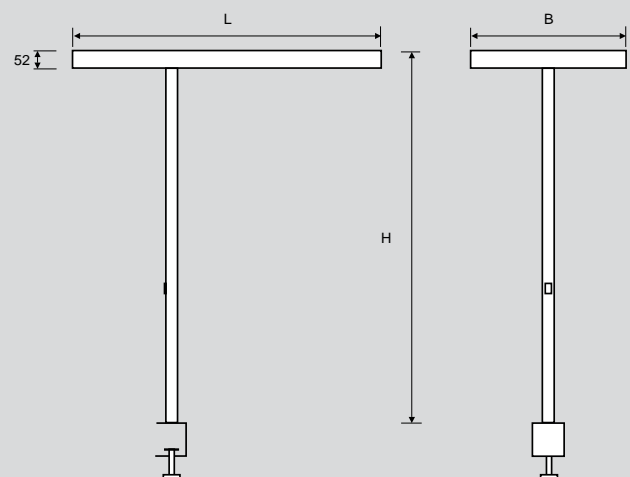
Installation:

Fasten down to the desk with a table clamp.

SD 168 MP-S



TD 160 MP-S

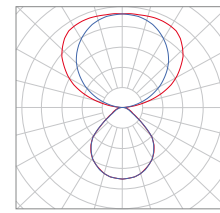


Designer free-standing luminaire made of aluminium direct/indirect light beam



SD 168 MP-S

- microprism optics made of microstructured special acrylic glass
- suitable for workplaces with monitors in accordance with EN 12464-1
- direct/indirect light beam
- Extruded aluminium profile, white or silver powder-coated, with rounded corners (RAL 9016/RAL9006)
- stand pipe available chromed on request.
- steel base, fluorescent powder-coated, with cut-out for table leg

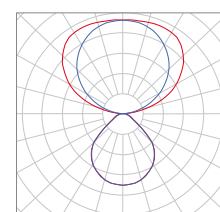


Model	Lamp	Version	Dimensions in mm			Weight	Article number
			Length	Width	Height		
SD 168MP-S si 4x28	TC-L	2G11	640	304	2000	17,0	2820970
SD 168MP-S si 4x28 DIM	TC-L	2G11	640	304	2000	17,0	3820970
SD 168MP-S si 4x28 SENSOR	TC-L	2G11	640	304	2000	17,0	2820972
SD 168MP-S si 4x55	TC-L	2G11	640	304	2000	17,0	2820974
SD 168MP-S si 4x55 DIM	TC-L	2G11	640	304	2000	17,0	3820974
SD 168MP-S si 4x55 SENSOR	TC-L	2G11	640	304	2000	17,0	2820976
SD 168MP-S ws 4x28	TC-L	2G11	640	304	2000	17,0	2820978
SD 168MP-S ws 4x28 DIM	TC-L	2G11	640	304	2000	17,0	3820978
SD 168MP-S ws 4x28 SENSOR	TC-L	2G11	640	304	2000	17,0	2820980
SD 168MP-S ws 4x55	TC-L	2G11	640	304	2000	17,0	2820982
SD 168MP-S ws 4x55 DIM	TC-L	2G11	640	304	2000	17,0	3820982
SD 168MP-S ws 4x55 SENSOR	TC-L	2G11	640	304	2000	17,0	2820984
SD 168MP-S ws/ch 4x28	TC-L	2G11	640	304	2000	17,0	2820986
SD 168MP-S ws/ch 4x28 DIM	TC-L	2G11	640	304	2000	17,0	3820986
SD 168MP-S ws/ch 4x28 SENSOR	TC-L	2G11	640	304	2000	17,0	2820988
SD 168MP-S ws/ch 4x55	TC-L	2G11	640	304	2000	17,0	2820990
SD 168MP-S ws/ch 4x55 DIM	TC-L	2G11	640	304	2000	17,0	3820990
SD 168MP-S ws/ch 4x55 SENSOR	TC-L	2G11	640	304	2000	17,0	2820992



TD 168 MP-S

- microprism optics made of microstructured special acrylic glass
- suitable for workplaces with monitors in accordance with EN 12464-1
- direct/indirect light beam
- Extruded aluminium profile, white or silver powder-coated, with rounded corners (RAL 9016/RAL 9006)
- stand pipe available chromed on request.
- Bracket for fixing to table



Model	Lamp	Version	Dimensions in mm			Weight	Article number
			Length	Width	Height		
TD 168MP-S ws/ch 6x39 SENSOR	T5	G5	914	420	1060	15,6	2820994

EVG: electronic ballast; VWG: electromagnetic ballast

Designer suspended light made of aluminium direct/indirect light beam

AD 160 MP

Mounted light

Luminaire:

Naturally anodised extruded aluminium profile.

Optics:

Microprism optics made of microstructured special acrylic glass.
Suitable for workplaces with monitors in accordance with EN 12464-1.
Direct light distribution.
Optimised for T5 fluorescent bulbs in terms of lighting technology.

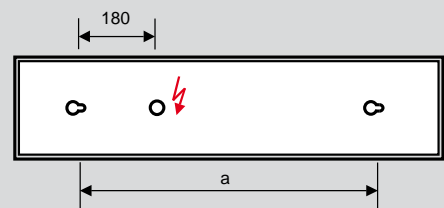
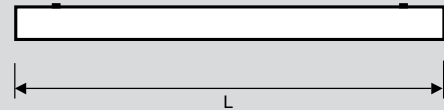
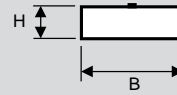
Electrical equipment:

Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:

Directly on wall or ceiling.

AD 160 MP



PD 160 MP

Suspended light

Luminaire:

Naturally anodised extruded aluminium profile.

Optics:

Microprism optics made of microstructured special acrylic glass.
Suitable for workplaces with monitors in accordance with EN 12464-1.
Direct/indirect light distribution.
Optimised for T5 fluorescent bulbs in terms of lighting technology.

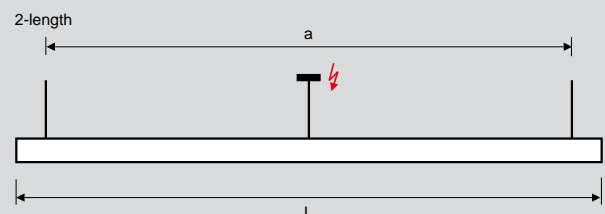
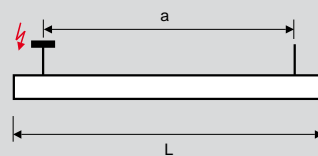
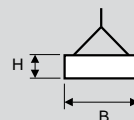
Electrical equipment:

Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:

Tool-free and stepless vertically adjustable wire suspension with transparently coated lead.
Included in the delivery.

PD 160 MP

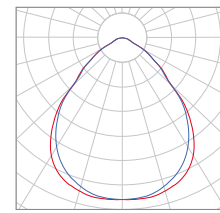


Designer suspended light made of aluminium direct/indirect light beam

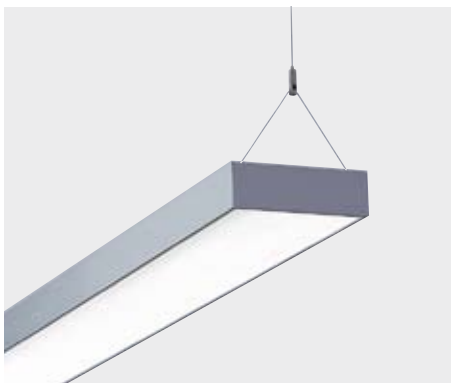


AD 160 MP

- microprism optics made of micro-structured special acrylic glass
- suitable for workplaces with monitors in accordance with EN 12464-1
- direct light beam
- can be installed directly on a wall or ceiling

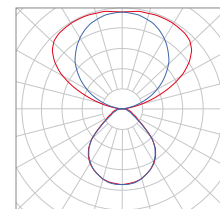


Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
AD 160MP si 2x14/24	T5	G5	600	164	75	500	3,0	2821000
AD 160MP si 2x21/39	T5	G5	900	164	75	740	4,2	2821002
AD 160MP si 2x28/54	T5	G5	1200	164	75	1040	5,5	2821004
AD 160MP si 2x35/49	T5	G5	1500	164	75	1340	6,8	2821006



PD 160 MP

- microprism optics made of micro-structured special acrylic glass
- suitable for workplaces with monitors in accordance with EN 12464-1
- direct light beam
- can be installed directly on a wall or ceiling



Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
1-length								
PD 160MP si 2x21/39	T5	G5	914	164	52	880	4,4	2821100
PD 160MP si 2x28/54	T5	G5	1214	164	52	1180	5,1	2821102
PD 160MP si 2x35/49	T5	G5	1516	164	52	1480	5,6	2821104
2-length								
PD 160MP si 2x2x28/54	T5	G5	2404	164	52	2370	8,6	2821106
PD 160MP si 2x2x35/49	T5	G5	3006	164	52	2975	9,0	2821108

Designer free-standing luminaire made of aluminium direct/indirect light beam

SD 160N MP-1

Free-standing luminaire

Luminaire:

Naturally anodised extruded aluminium profile.
Steel base, fluorescent powder-coated.

Optics:

Microprism optics made of microstructured special acrylic glass.
Suitable for workplaces with monitors in accordance with EN 12464-1.
Direct/indirect light distribution.
Optimised for TC-L fluorescent bulbs in terms of lighting technology.

Electrical equipment:

Electronic ballast (EVG).
Either two-stage switchable, stepless dimmable or stepless dimmable with integrated sensor for daylight-dependent control and presence detector.
Switch positioned ergonomically in the lamp pole.



Also available as a table light

WD 160 MP

Wall lamp

Luminaire:

Naturally anodised extruded aluminium profile.

Optics:

Microprism optics made of microstructured special acrylic glass.
Suitable for workplaces with monitors in accordance with EN 12464-1.
Direct/indirect light distribution.
Optimised for TC-L fluorescent bulbs in terms of lighting technology.

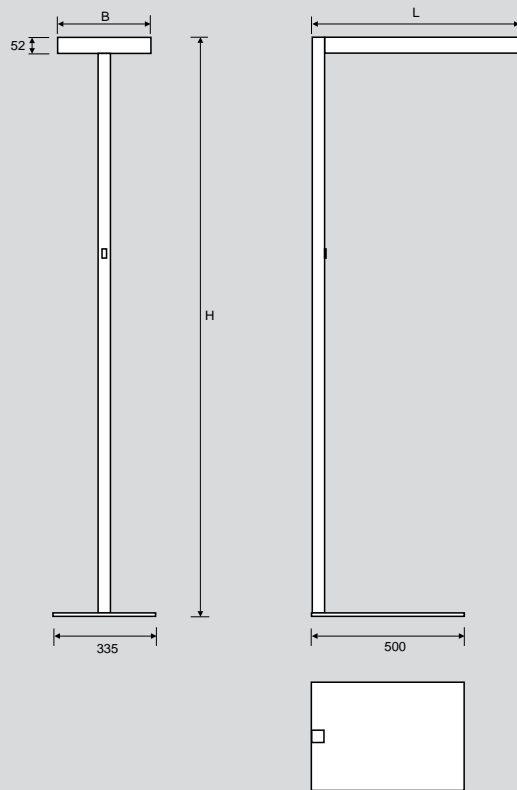
Electrical equipment:

Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

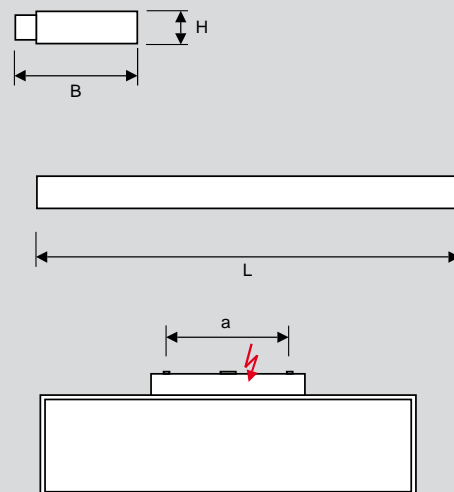
Installation:

Directly on the wall.

SD 160N MP-1



WD 160 MP



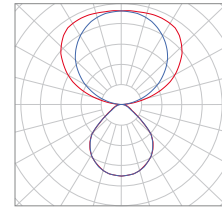
Architectural Lighting
 Covered and illuminated ceiling lighting
 General lighting
 Office lighting / lower luminaires
 Luminaires for sports facilities
 Industrial lighting
 Damp-proof lights
 Outdoor lighting
 Appendix

Designer free-standing luminaire made of aluminium direct/indirect light beam



SD 160N MP-1

- microprism optics made of micro-structured special acrylic glass
- suitable for workplaces with monitors in accordance with EN 12464-1
- direct/indirect light beam
- naturally anodised, extruded aluminium profile luminaire
- steel base, fluoresent powder-coated
- also available as a table light

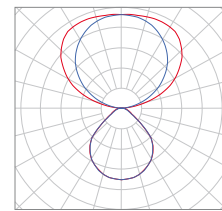


Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			Length	Width	Height		
SD 160N MP-1 si 4x55	TC-L	2G11	642	304	2000	17,9	2820692
SD 160N MP-1 si 4x55 DIM	TC-L	2G11	642	304	2000	17,9	3820692
SD 160N MP-1 si 4x55 SENSOR	TC-L	2G11	642	304	2000	17,9	2820694
SD 160N MP-2 si 2x4x55	TC-L	2G11	1244	304	2000	24,8	2820696
SD 160N MP-2 si 2x4x55 DIM	TC-L	2G11	1244	304	2000	24,8	3820696



WD 160 MP

- microprism optics made of microstructured special acrylic glass
- suitable for workplaces with monitors in accordance with EN 12464-1
- direct/indirect light beam
- naturally anodised, extruded aluminium profile luminaire
- mounted directly on the wall



Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
WD 160MP si 2x24	TC-L	2G11	350	164+35	52	60	1,8	2821170
WD 160MP si 2x36	TC-L	2G11	450	164+35	52	60	2,0	2821172
WD 160MP si 2x55	TC-L	2G11	610	164+35	52	200	2,5	2821174
WD 160MP si 2x80	TC-L	2G11	610	164+35	52	200	2,5	2821176



EVG: electronic ballast; VWG: electromagnetic ballast

Recessed / mounted designer suspended light made of aluminium
direct or direct/indirect light beam

ED 160 W-Q

Recessed light, square

Luminaire:

White, powder-coated sheet steel.
Optical frame, naturally anodised, extruded aluminium profile.

Optics:

Opal diffuser, frosted acrylic glass.
Direct light distribution.
Optimised for T5 lamps in terms of lighting technology.
Patented snap lock.

Electrical equipment:

Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Emergency lighting component can be integrated.

Installation:

Individual mounting in cut ceiling apertures.
Mounting kits are included with the lights as standard.

AD 160 W-Q

Mounted light square

Luminaire:

Naturally anodised extruded aluminium profile.

Optics:

Opal diffuser, frosted acrylic glass.
Direct light distribution.
Optimised for T5 lamps in terms of lighting technology.
Patented snap lock.

Electrical equipment:

Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Emergency lighting component can be integrated.

Installation:

Directly on wall or ceiling.

PD 160 W-Q

Suspended light square

Luminaire:

Naturally anodised extruded aluminium profile.

Optics:

Opal diffuser, frosted acrylic glass.
Direct/indirect light distribution.
Optimised for T5 fluorescent bulbs in terms of lighting technology.

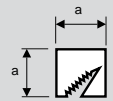
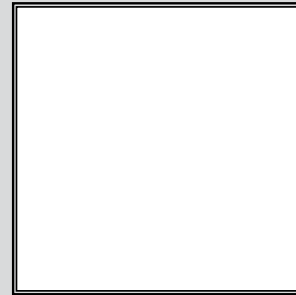
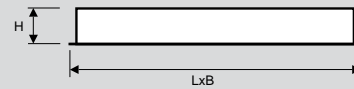
Electrical equipment:

Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

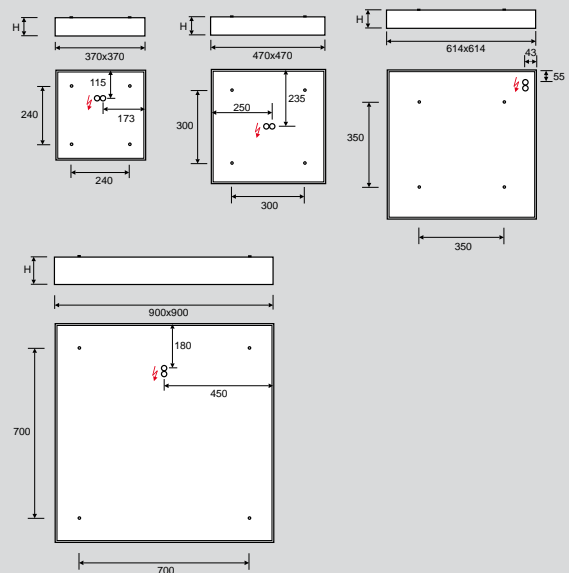
Installation:

Tool-free and stepless vertically adjustable wire suspension with transparently coated lead.
Included in the delivery.

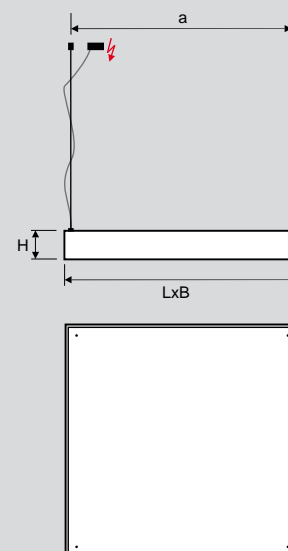
ED 160 W-Q



AD 160 W-Q



PD 160 W-Q

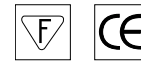
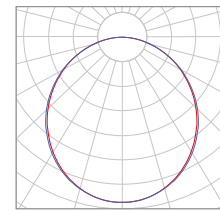


Recessed / mounted designer suspended light made of aluminium direct or direct/indirect light beam



ED 160 W-Q

- opal diffuser, frosted acrylic glass
- suitable for general lighting
- direct light beam
- white, powder-coated sheet steel luminaire
- optical frame naturally anodised, extruded aluminium profile
- individual mounting in cut ceiling apertures
- including installation kit



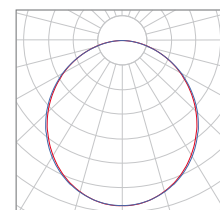
Snap lock

Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
ED 160W-Q si 1x55	T5-R	2GX13	379	379	75	360	3,2	2820682
ED 160W-Q si 1x22+40	T5-R	2GX13	379	379	75	360	3,3	2820684
ED 160W-Q si 1x40+60	T5-R	2GX13	479	479	75	460	5,2	2820686
ED 160W-Q si 8x14	T5	G5	623	623	75	604	6,9	2820688
ED 160W-Q si 8x21	T5	G5	910	910	113	892	10,4	2820690



AD 160 W-Q

- opal diffuser, frosted acrylic glass
- suitable for general lighting
- direct light beam
- naturally anodised, extruded aluminium profile luminaire
- can be installed directly on a wall or ceiling

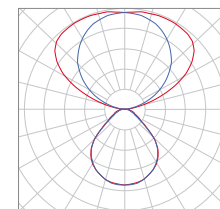


Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
AD 160W-Q si 1x40	T5-R	2GX13	370	370	75	240	3,4	2820802
AD 160W-Q si 1x55	T5-R	2GX13	370	370	75	240	3,4	2820804
AD 160W-Q si 1x22+40	T5-R	2GX13	370	370	75	240	3,5	2820806
AD 160W-Q si 1x40+60	T5-R	2GX13	470	470	75	300	4,9	2820808
AD 160W-Q si 8x14	T5	G5	614	614	75	350	6,4	2820810
AD 160W-Q si 8x21	T5	G5	900	900	113	700	9,3	2820812



PD 160 W-Q

- opal diffuser, frosted acrylic glass
- suitable for general lighting
- direct/indirect light beam
- naturally anodised, extruded aluminium profile luminaire
- tool-free and stepless vertically adjustable wire suspension with transparently coated lead included



Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
PD 160W-Q si 1x55	T5-R	2GX13	370	370	75	240	3,6	2820900
PD 160W-Q si 1x40+60	T5-R	2GX13	470	470	75	300	5	2820902
PD 160W-Q si 8x14	T5	G5	614	614	75	580	6,6	2820904
PD 160W-Q si 8x21	T5	G5	900	900	113	870	9,3	2820906

EVG: electronic ballast; VWG: electromagnetic ballast

Recessed / mounted designer suspended light made of aluminium
direct or direct/indirect light beam

ED 160 W-R

Recessed light, round

Luminaire:

White, powder-coated sheet steel.
Optical frame, naturally anodised, extruded aluminium profile

Optics:

Opal diffuser, frosted acrylic glass.
Direct light distribution.
Optimised for T5 lamps in terms of lighting technology.
Patented snap lock.

Electrical equipment:

Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Emergency lighting component can be integrated.

Installation:

Individual mounting in cut ceiling apertures.
Mounting kits are included with the lights as standard.

AD 160 W-R

Mounted light, round

Luminaire:

Naturally anodised extruded aluminium profile.

Optics:

Opal diffuser, frosted acrylic glass.
Direct light distribution.
Optimised for T5 lamps in terms of lighting technology.
Patented snap lock.

Electrical equipment:

Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Emergency lighting component can be integrated.

Installation:

Directly on wall or ceiling.

PD 160 W-R

Suspended light, round

Luminaire:

Naturally anodised extruded aluminium profile.

Optics:

Opal diffuser, frosted acrylic glass.
Direct/indirect light distribution.
Optimised for T5 fluorescent bulbs in terms of lighting technology.

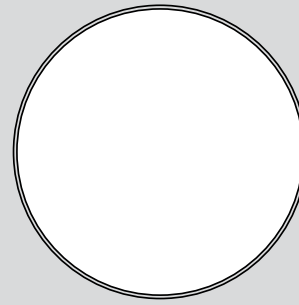
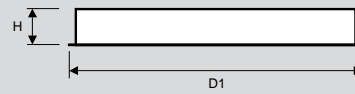
Electrical equipment:

Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

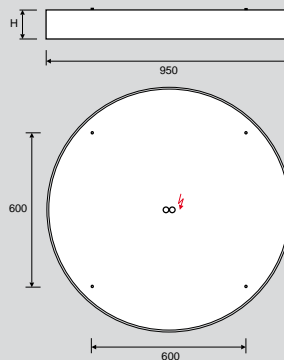
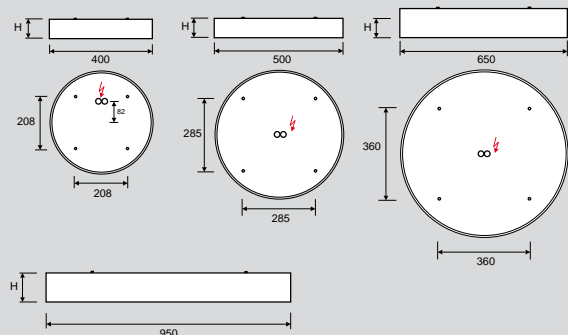
Installation:

Tool-free and stepless vertically adjustable wire suspension with transparently coated lead.
Included in the delivery.

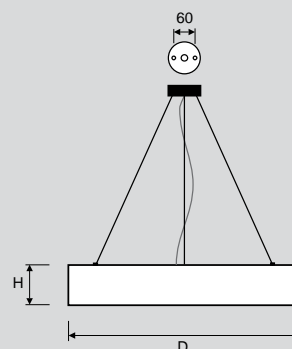
ED 160 W-R



AD 160 W-R



PD 160 W-R

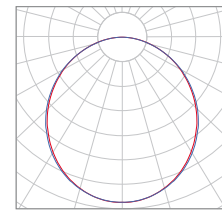


Recessed / mounted designer suspended light made of aluminium direct or direct/indirect light beam



ED 160 W-R

- opal diffuser, frosted acrylic glass
- suitable for general lighting
- direct light beam
- white powder-coated, sheet steel luminaire
- optical frame, naturally anodised, extruded aluminium profile
- individual mounting in cut ceiling apertures
- including installation kit

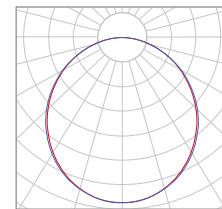


Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			D1	Height	D2		
ED 160W-R si 1x40	T5-R	2GX13	420	100	400	5,3	2820930
ED 160W-R si 1x55	T5-R	2GX13	420	100	400	5,3	2820932
ED 160W-R si 1x22+40	T5-R	2GX13	420	100	400	5,3	2820934
ED 160W-R si 1x40+60	T5-R	2GX13	520	100	500	6,5	2820936
ED 160W-R si 4x24+2x24	T5/TC-L	G5 / 2G11	670	100	650	8,3	2820938
ED 160W-R si 4x21+6x14	T5	G5	980	100	960	12,2	2820940



AD 160 W-R

- opal diffuser, frosted acrylic glass
- suitable for general lighting
- direct light beam
- naturally anodised extruded aluminium profile luminaire
- can be installed directly on a wall or ceiling

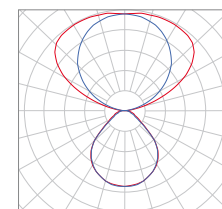


Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			D1	Height	a		
AD 160W-R si 1x40	T5-R	2GX13	400	75	208	3,3	2820950
AD 160W-R si 1x55	T5-R	2GX13	400	75	208	3,3	2820952
AD 160W-R si 1x22+40	T5-R	2GX13	400	75	208	3,4	2820954
AD 160W-R si 1x40+60	T5-R	2GX13	500	75	285	4,5	2820956
AD 160W-R si 4x24+2x24	T5/TC-L	G5 / 2G11	650	113	360	6,3	2820958
AD 160W-R si 4x21+6x14	T5	G5	950	113	360	9,1	2820960



PD 160 W-R

- opal diffuser, frosted acrylic glass
- suitable for general lighting
- direct/indirect light beam
- naturally anodised extruded aluminium profile luminaire
- tool-free and stepless height-adjustable wire suspension with transparently coated lead included



Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			D1	Height	a		
PD 160W-R si 1x40	T5-R	2GX13	400	75	60	3,6	2820910
PD 160W-R si 1x55	T5-R	2GX13	400	75	60	3,6	2820912
PD 160W-R si 1x22+40	T5-R	2GX13	400	75	60	3,6	2820914
PD 160W-R si 1x40+60	T5-R	2GX13	500	75	60	4,8	2820916
PD 160W-R si 4x24+2x24	T5/TC-L	G5 / 2G11	650	113	60	6,6	2820918
PD 160W-R si 4x21+6x14	T5	G5	950	113	60	9,4	2820920

EVG: electronic ballast; VWG: electromagnetic ballast

Project solution

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting / louver luminaires

Luminaires for sports facilities

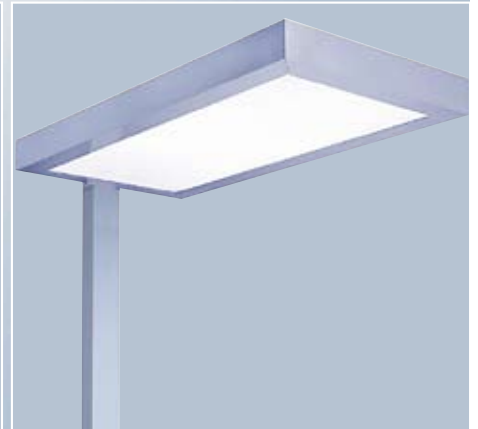
Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix





Galileo II

Architectural lighting

Designer lights made of aluminium
Direct or direct/indirect light beam

A clear, straight-line design predestines these lights for modern architecture solutions. They emphasise the features in a room without imposing themselves.

Mounted / suspended designer light made of aluminium direct/indirect light beam

The Galileo II series is characterised by its clear, straight-line design. Premium-quality aluminium body. The strict design supports the design of modern architecture.

AD 157

Mounted light

Luminaire:

Naturally anodised extruded aluminium profile.

Louwer:

BAP 60° parabolic specular louwer with reduced luminance made of premium quality mirror material. Direct light distribution. Optimised for T5 lamps in terms of lighting technology. Fixed with a spring steel fastener.

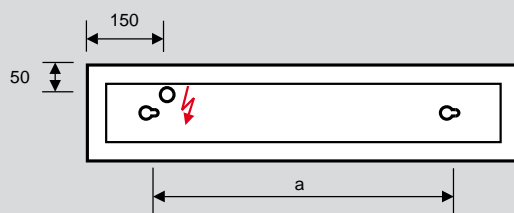
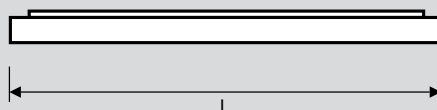
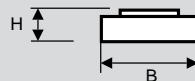
Electrical equipment:

Electronic ballast (EVG). Special versions available, e.g. adjustable EVG 1-10 V, DALI. Emergency lighting component can be integrated.

Installation:

Directly on the ceiling.

AD 157



PD 158

Suspended light

Luminaire:

Naturally anodised extruded aluminium profile.

Louwer:

BAP 60° parabolic specular louwer with reduced luminance made of premium quality mirror material. Direct/indirect light distribution. Optimised for T5 lamps in terms of lighting technology. Fixed with a spring steel fastener.

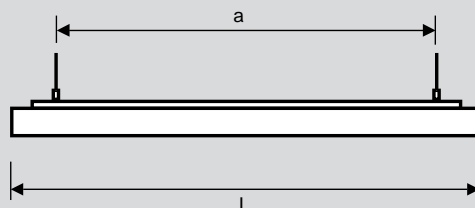
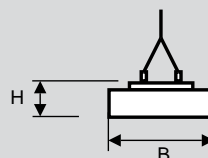
Electrical equipment:

Electronic ballast (EVG). Special versions available, e.g. adjustable EVG 1-10 V, DALI. Emergency lighting component can be integrated.

Installation:

Tool-free and stepless vertically adjustable wire suspension with transparently coated lead. Included in the delivery.

PD 158

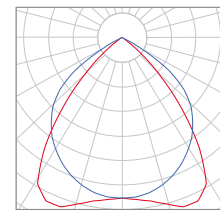


Mounted / suspended designer light made of aluminium direct/indirect light beam



AD 157

- BAP 60° specular louver, direct light beam
- parabolically shaped longitudinal reflectors and transverse lamellae made of high-gloss anodised purest aluminium
- glare-suppressed to DIN/EN, suitable for workplaces with monitors and those supporting monitors

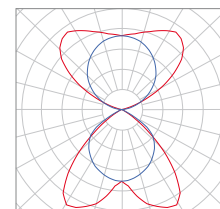


Model	Lamp	Version	Dimensions in mm				Weight	Article number
			Length	Width	Height	a		
1-length								
AD 157 si 1x28/54	T5	G5	1250	153	40+10	1040	3,7	2820830
AD 157 si 1x35/49/80	T5	G5	1552	153	40+10	1345	4,5	2820832
AD 157 si 2x28/54	T5	G5	1250	153	40+10	1040	3,8	2820834
AD 157 si 2x35/49	T5	G5	1552	153	40+10	1345	4,6	2820836
AD 157 si 2x80	T5	G5	1552	153	40+10	1345	4,6	2820838
2-length								
AD 157 si 2x1x28/54	T5	G5	2428	153	40+10	2220	7	2820850
AD 157 si 2x1x35/49	T5	G5	3035	153	40+10	2828	8,5	2820852
AD 157 si 2x2x28/54	T5	G5	2428	153	40+10	2220	7,1	2820854
AD 157 si 2x2x35/49	T5	G5	3035	153	40+10	2828	8,6	2820856
AD 157 si 2x2x80	T5	G5	3035	153	40+10	2828	8,6	2820858



PD 158

- BAP 60° specular louver, direct/indirect light beam
- parabolically shaped longitudinal reflectors and transverse lamellae made of high-gloss anodised purest aluminium
- glare-suppressed to DIN/EN, suitable for workplaces with monitors and those supporting monitors
- including suspension wire and transparent feed



Model	Lamp	Version	Dimensions in mm				Weight	Article number
			Length	Width	Height	a		
1-length								
PD 158 si 1x28/54	T5	G5	1250	153	40+10	1040	3,9	2820702
PD 158 si 1x35/49/80	T5	G5	1552	153	40+10	1345	4,7	2820704
PD 158 si 2x28/54	T5	G5	1250	153	40+10	1040	4	2820706
PD 158 si 2x35/49	T5	G5	1552	153	40+10	1345	4,8	2820708
PD 158 si 2x80	T5	G5	1552	153	40+10	1345	4,8	2820710
2-length								
PD 158 si 2x1x28/54	T5	G5	2428	153	40+10	2220	7,2	2820722
PD 158 si 2x1x35/49	T5	G5	3035	153	40+10	2828	8,7	2820724
PD 158 si 2x2x28/54	T5	G5	2428	153	40+10	2220	7,3	2820726
PD 158 si 2x2x35/49	T5	G5	3035	153	40+10	2828	8,8	2820728
PD 158 si 2x2x80	T5	G5	3035	153	40+10	2828	8,8	2820730

Designer free-standing luminaire made of aluminium direct/indirect light beam

SD 150N MP

Free-standing luminaire

Luminaire:

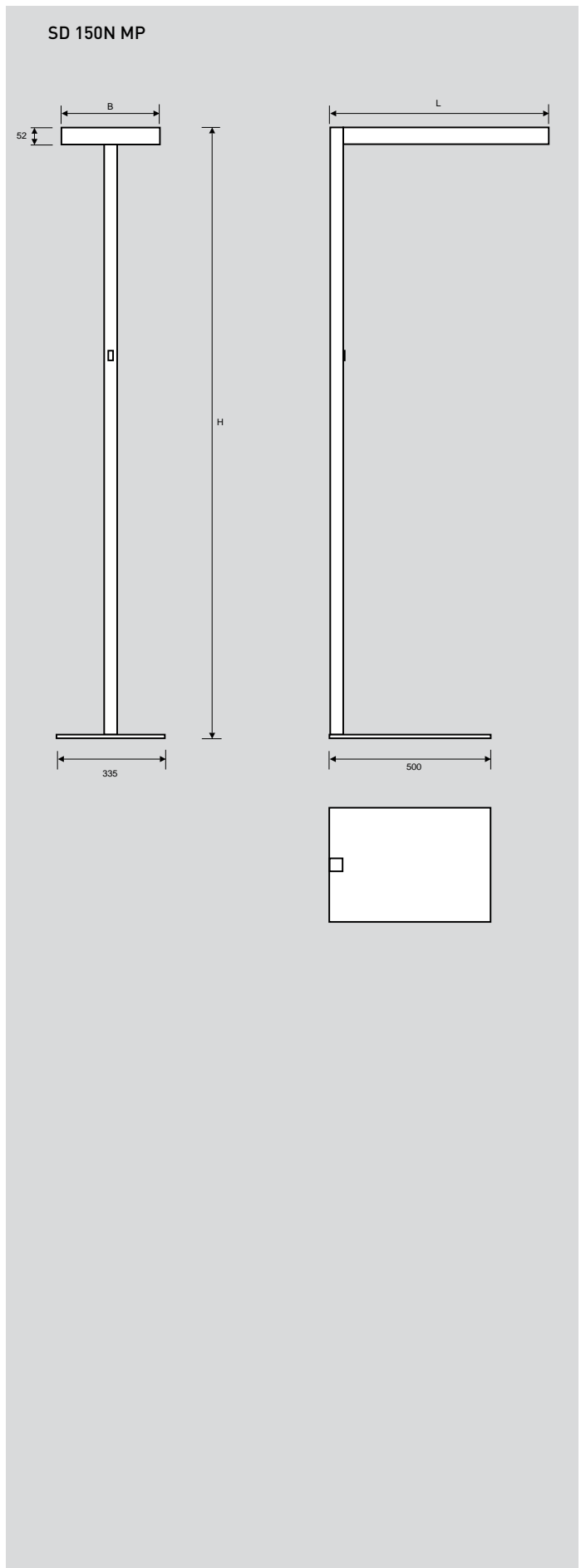
Naturally anodised extruded aluminium profile.
Steel base, fluorescent powder-coated.

Louwer:

Microprism optics made of microstructured special acrylic glass.
Suitable for workplaces with monitors in accordance with EN 12464-1.
Direct/indirect light distribution.
Optimised for TC-L fluorescent bulbs in terms of lighting technology.

Electrical equipment:

Electronic ballast (EVG).
Either two-stage switchable, stepless dimmable or stepless dimmable with integrated sensor for daylight-dependent control and presence detector.
Switch positioned ergonomically in the lamp pole.



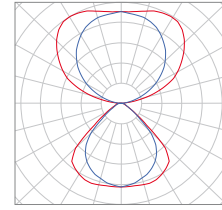
Also available as
a table light

Designer free-standing luminaire made of aluminium direct/indirect light beam



SD 150N MP

- suitable for workplaces with monitors in accordance with EN 12464-1
- direct/indirect light beam
- naturally anodised extruded aluminium profile luminaire
- steel base, fluorescent powder-coated



Model	Lamp	Version	Dimensions in mm			Weight	Article number
			Length	Width	Height		
SD 150N MP si 4x55	TC-L	2G11	640	300	2000	16,5	2820996
SD 150N MP si 4x55 DIM	TC-L	2G11	640	300	2000	16,5	3820996
SD 150N MP si 4x55 SENSOR	TC-L	2G11	640	300	2000	16,5	2820998

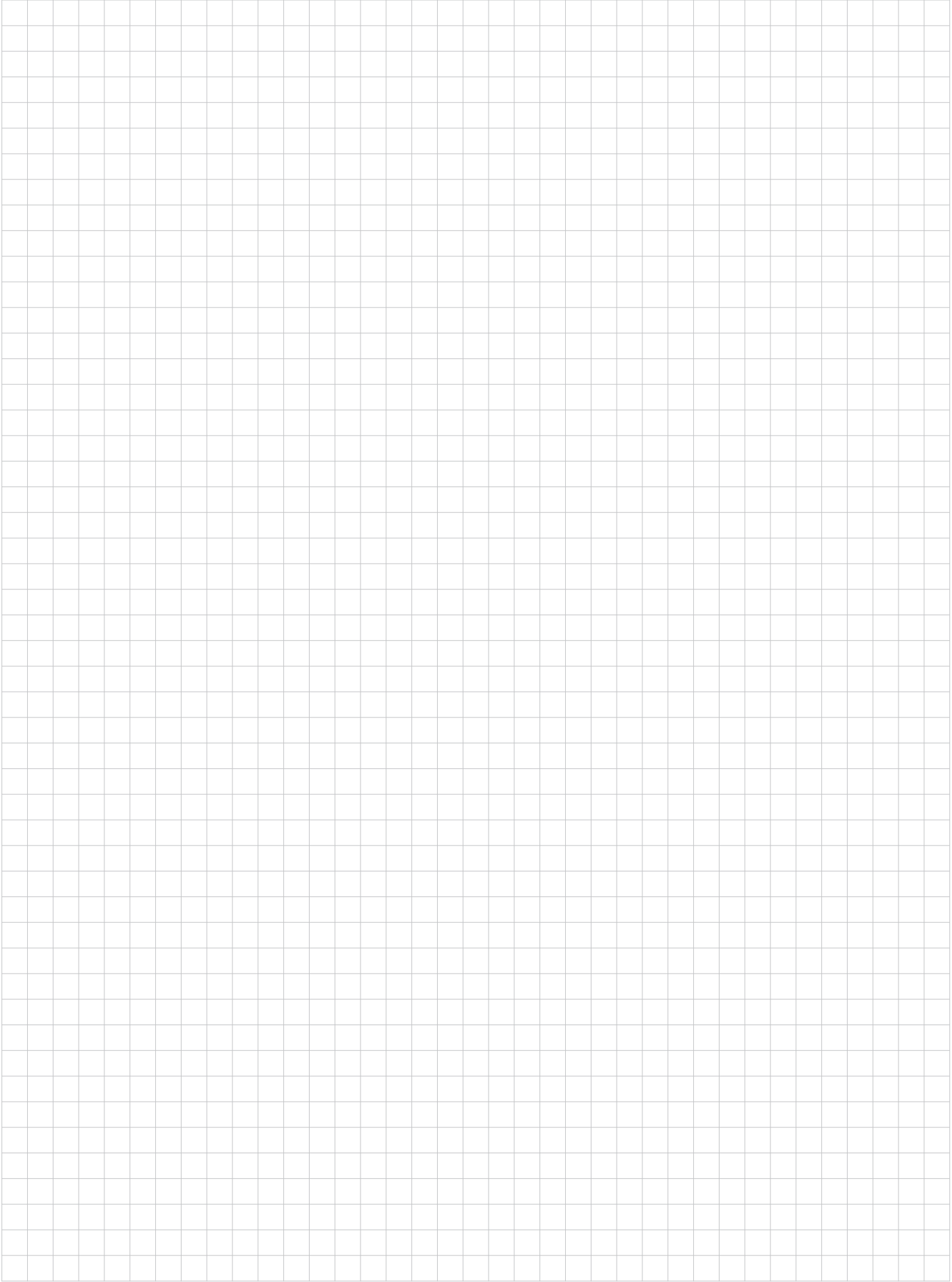


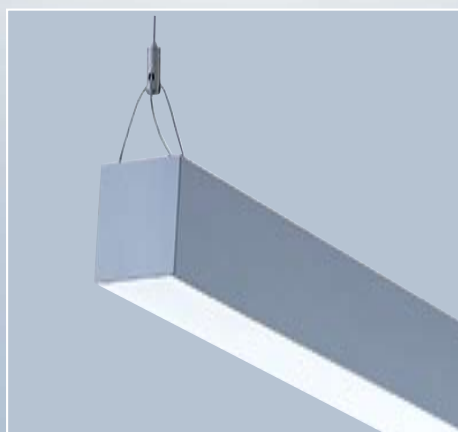
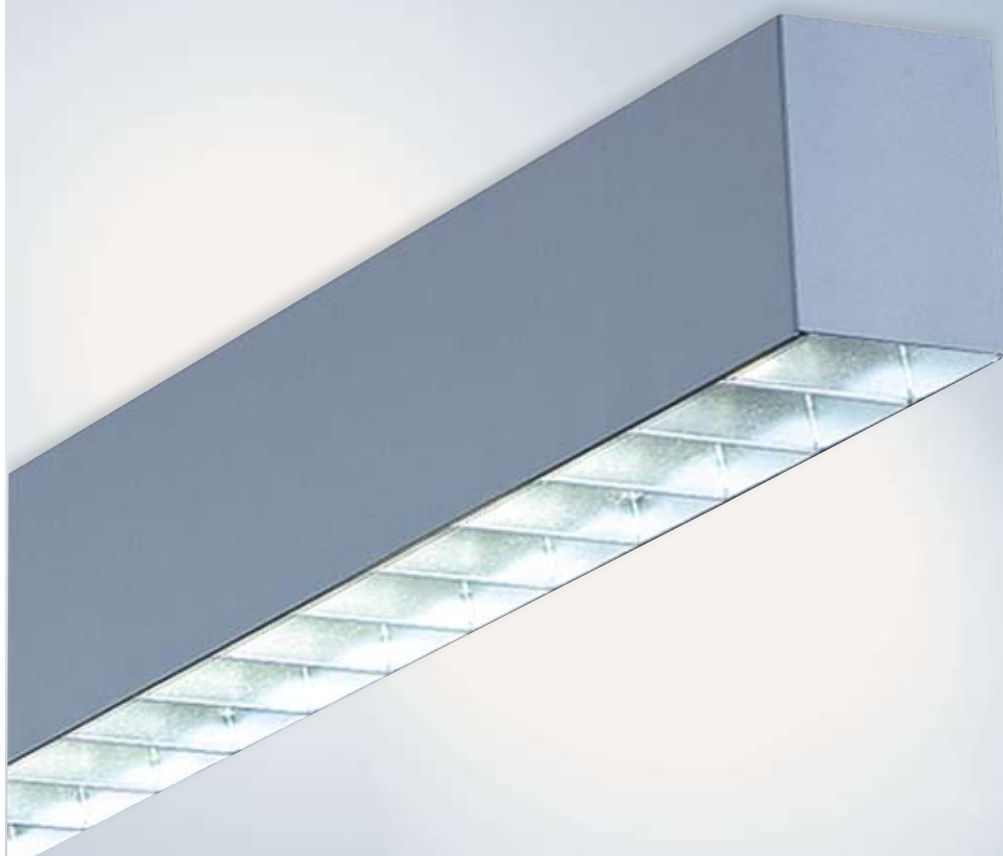
Multisensor

Daylight-dependent control via the multisensor.

EVG: electronic ballast; VWG: electromagnetic ballast

- Architectural lighting
- Coved and illuminated ceiling lighting
- General lighting
- Office lighting /
louver luminaires
- Luminaires for
sports facilities
- Industrial lighting
- Damp-proof lights
- Outdoor lighting
- Appendix





Light conduit

Architectural lighting

Modular-constructed light conduit
made of extruded aluminium profile, direct light beam

A clear, straight-line design predestines these lights for modern architecture solutions. They emphasise the features in a room without imposing themselves.

Light conduit

Modular-constructed light conduit in different versions.
 The light conduit can be recessed, mounted or suspended.
 The luminaires can be arranged in an overlapping formation for homogenous illuminated surfaces.
 Suitable for general lighting or office lighting (EN 12464-1).

KD 55.75**Luminaire:**

naturally anodised extruded aluminium profile.
 Sheet steel, white powder-coated light inserts.

Optics:

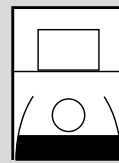
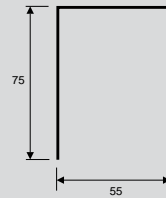
There are 3 types of optics available:
 - satined louver, BAP 65°, suitable for workplaces with monitors and those supporting monitors
 - opal acrylic cover with homogenous light distribution
 - microprismatic acrylic cover with glare-suppressed light effect
 Direct light distribution. Optimised for T5 lamps in terms of lighting technology.

Electrical equipment:

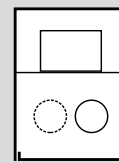
3-pin quick plug terminal,
 Electronic ballast (EVG),
 Special versions available, e.g. adjustable EVG 1-10 V, DALI.
 Safety lighting versions available.

Installation:

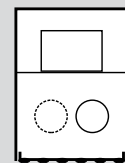
Ceiling, suspended or wall.

**KD 55.75**

With a satined
louver



With an opal
cover



With a prismatic
cover



Empty aluminium profile KD 55.75

- naturally anodised extruded aluminium profile,
other colours on request

Model	For individual lights	Dimensions in mm			Article number
		Length	Width	Height	
Empty profile					
KD 55.75 609 mm	14/24Watt	609	55	75	1824000
KD 55.75 876 mm	21/39Watt	876	55	75	1824002
KD 55.75 1180 mm	28/54Watt	1180	55	75	1824004
KD 55.75 1484 mm	35/49/80Watt	1484	55	75	1824006
For individual lights					
KD 55.75 xxxx mm*		xxxx	55	75	on request

* Lengths in mm

Length calculation:

KD 55.75 with louver, linear lamp arrangement

light insert	Length	
14/24	570 mm	x number of uses = profile length
21/39	870 mm	x number of uses = profile length
28/54	1170 mm	x number of uses = profile length
35/49/80	1470 mm	x number of uses = profile length

Example:
Light profile 3x 35/49/80W
1470 mm x 3 = 4410 mm profile length plus end caps

KD 55.75 with opal or prism cover, offset lamp arrangement

light insert	Length	
14/24	490 mm	x number of uses + 80 mm = profile length
21/39	790 mm	x number of uses + 80 mm = profile length
28/54	1090 mm	x number of uses + 80 mm = profile length
35/49/80	1390 mm	x number of uses + 80 mm = profile length

Example:
Light profile 4x 28/54W
1090 mm x 4 = 4360 mm, 4360 mm + 80 mm = 4440 mm profile length plus end caps

EVG: electronic ballast; VWG: electromagnetic ballast

Light conduit

**Profile connector V 55.75**

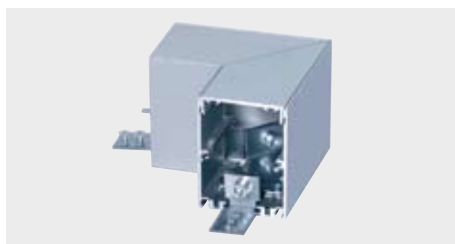
- for a straight connection of the KD 55.75 profiles

Model	Article number
V 55.75	1824008

**End cap SK 55.75**

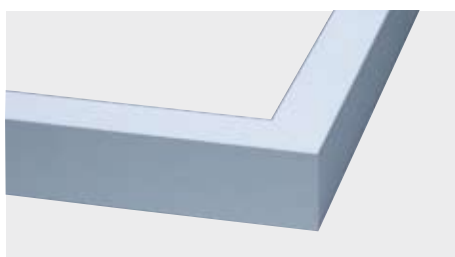
- metal end cap, pair

Model	Article number
SK 55.75 Paar	1824020

**Profile connector V 55.75-90**

- for a 90° connection of the KD 55.75 profiles
- including blind covering
- 100 mm x 100 mm

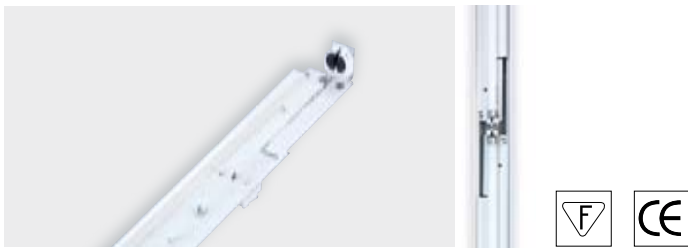
Model	Article number
V 55.75-90	1824010

**Profile connector V 55.75-90 W/MP**

- for a 90° connection of the KD 55.75 profiles
- including opal or prismatic cover
- continuous angled lighting

Model	for light insert	Optic	Dimensions in mm	Article number
			L	
V 55.75-90 W 620 mm	14/24W	opal	620 x 620	1824012
V 55.75-90 MP 620 mm	14/24W	microprisms	620 x 620	1824014
V 55.75-90 W 920 mm	21/39W	opal	920 x 920	1824016
V 55.75-90 MP 920 mm	21/39W	microprisms	920 x 920	1824018





Light insert LK 55.75-L

- white powder-coated sheet steel
- for linear arrangement
- electronic ballast

Model	Article number
LK 55.75-L 1x14/24	2824000
LK 55.75-L 1x21/39	2824002
LK 55.75-L 1x28/54	2824004
LK 55.75-L 1x35/49/80	2824006



BAP-specular louver BR 55.75

- parabolically shaped satined louver, BAP65°
- for linearly arranged light inserts
- optimised for T5 in terms of lighting technology

Model	Article number
BR 55.75 1x14/24	1824022
BR 55.75 1x21/39	1824024
BR 55.75 1x28/54	1824026
BR 55.75 1x35/49/80	1824028



Light insert LK 55.75-V

- white powder-coated sheet steel
- for offset arrangement (with overlapping)
- electronic ballast

Model	Article number
LK 55.75-V 1x14/24	2824008
LK 55.75-V 1x21/39	2824010
LK 55.75-V 1x28/54	2824012
LK 55.75-V 1x35/49/80	2824014



Opal cover WS 55.75

- opal plastic cover
- for offset light inserts for homogenous illumination
- optimised for T5 in terms of lighting technology

Model	Article number
WS 55.75 1x14/24	1824030
WS 55.75 1x21/39	1824032
WS 55.75 1x28/54	1824034
WS 55.75 1x35/49/80	1824036
WS 55.75 xxxmm (Special length)*	on request

* Lengths in mm

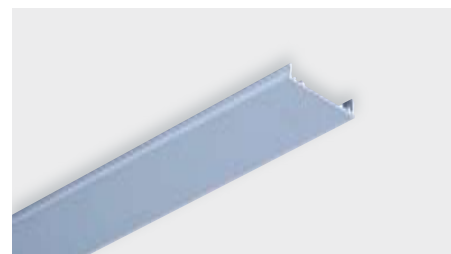


Microprismatic cover MPS 55.75

- microprismatic plastic cover
- for offset light inserts for homogenous illumination
- optimised for T5 in terms of lighting technology

Model	Article number
MPS 55.75 1x14/24	1824038
MPS 55.75 1x21/39	1824040
MPS 55.75 1x28/54	1824042
MPS 55.75 1x35/49/80	1824044
MPS 55.75 xxxmm (Special length)*	on request

* Lengths in mm



Blind covering BA 55.75

- blind covering extruded aluminium profile
- naturally anodised, other colours on request

Model	Article number
BA 55.75 1x14/24 608 mm	1824046
BA 55.75 1x21/39 875 mm	1824048
BA 55.75 1x28/54 1179 mm	1824050
BA 55.75 1x35/49/80 1483 mm	1824052
BA 55.75 xxxmm (Special length)*	on request

* Lengths in mm

Light conduit

**Power rail inlay SS 55.75**

- 3-phase power rail
- for linear arrangement
- optimised for T5 in terms of lighting technology

Model	Article number
SS 55.75 608 mm	1824078
SS 55.75 875 mm	1824080
SS 55.75 1179 mm	1824082
SS 55.75 1483 mm	1824084
SS 55.75 xxxx mm (Special length)*	on request

* Lengths in mm

**Feed-through wiring DV 55.75**

- Feed-through wiring 3x1.5 mm²
- Feed-through wiring 5x1.5 mm²

Model	Article number
DV 55.75-3 28/54 (3 wires)	1824054
DV 55.75-3 35/49/80 (3 wires)	1824056
DV 55.75-5 28/54 (5 wires)	1824058
DV 55.75-5 35/49/80 (5 wires)	1824060

**Y-wire suspension SY 55.75**

- wire suspension can be moved along the profile
- tool-free height adjustment
- rope length 1500 mm or 4000 mm
- max. rope distance 1600 mm

Model	Article number
SY 55.75 1500 mm	1824062
SY 55.75 4000 mm	1824064

**ES 55.75 feed**

- including flat ceiling rose and transparent lead
- lead length 1500 mm or 4000 mm

Model	Article number
ES 55.75-3 1500 mm (3 wires)	1824066
ES 55.75-3 4000 mm (3 wires)	1824068
ES 55.75-5 1500 mm (5 wires)	1824070
ES 55.75-5 4000 mm (5 wires)	1824072

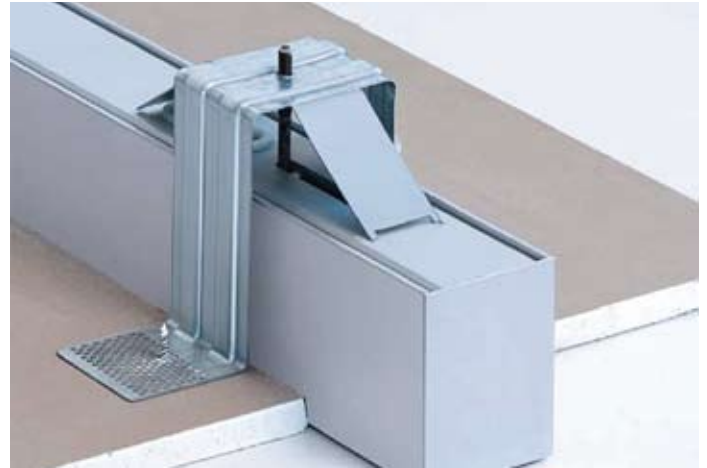




Fixing bracket EB 55.75

- for rimless embedding of the profile in plasterboard ceilings
- galvanised sheet steel

Model	Article number
EB 55.75	1824074



Fixing bracket WB 55.75

- for fixing the aluminium profile to the wall
- milled aluminium

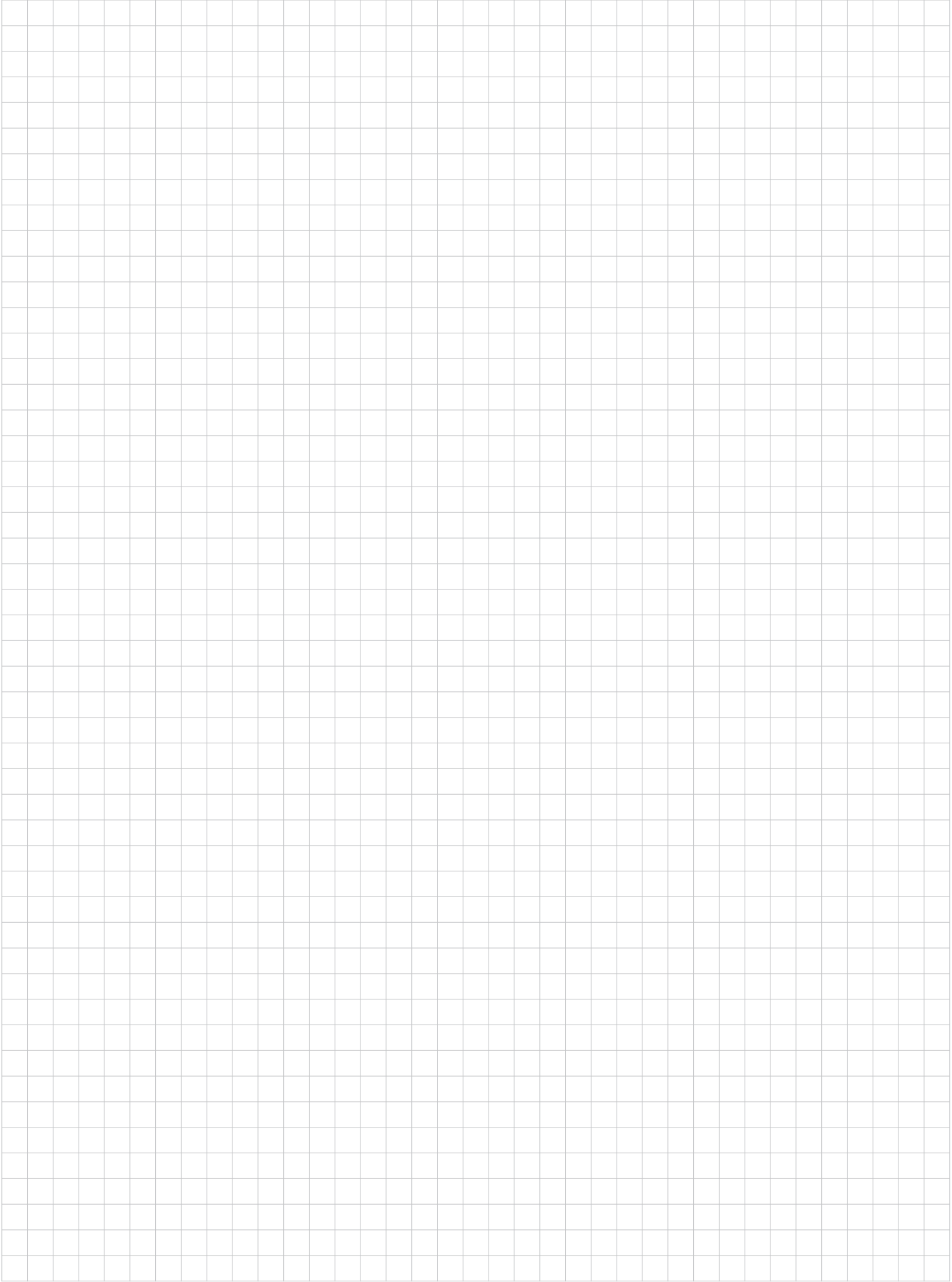
Model	Article number
WB 55.75	1824076



Recessed spots on request



- Architectural lighting
- Coved and illuminated ceiling lighting
- General lighting
- Office lighting /
louver luminaires
- Luminaires for
sports facilities
- Industrial lighting
- Damp-proof lights
- Outdoor lighting
- Appendix





Line

Architectural lighting

Direct light beam

Simplicity is their strength. As the name suggests, Line is a light strip that presents light in refreshing straightness.

Mounted and wall luminaires made of aluminium direct light beam

AD 210 W

Mounted light, slim

Luminaire:

Naturally anodised extruded aluminium profile.

Optics:

Opal diffuser, frosted acrylic profile.

Direct light distribution.

Optimised for T5 lamps in terms of lighting technology.

Electrical equipment:

Electronic ballast (EVG).

Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Emergency lighting component can be integrated.

Installation:

Directly on wall or ceiling.

AD 210

Mounted light, slim

Luminaire:

Naturally anodised extruded aluminium profile.

Optics:

Open-distribution light strip.

Direct light distribution.

Optimised for T5 lamps in terms of lighting technology.

Electrical equipment:

Electronic ballast (EVG).

Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Emergency lighting component can be integrated.

Installation:

Directly on wall or ceiling.

WD 210 W

Wall lamp, slim

Luminaire:

Naturally anodised extruded aluminium profile.

Optics:

Opal diffuser, frosted acrylic glass.

Direct light distribution.

Optimised for T5 lamps in terms of lighting technology.

Electrical equipment:

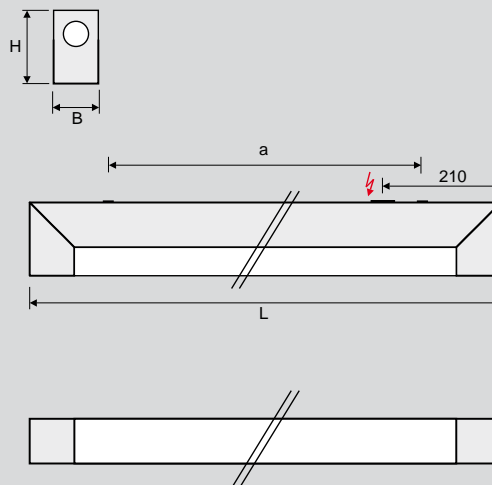
Electronic ballast (EVG).

Special versions available, e.g. adjustable EVG 1-10 V, DALI.

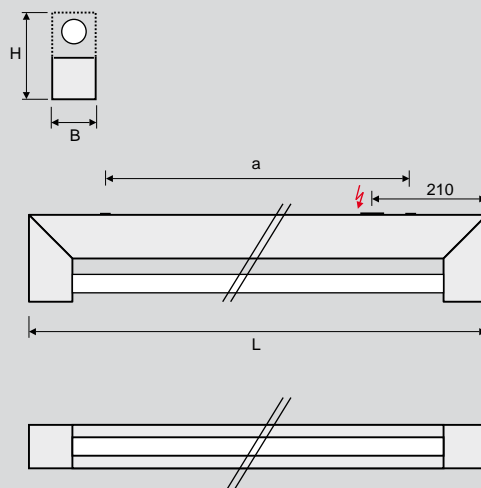
Installation:

Directly on the wall.

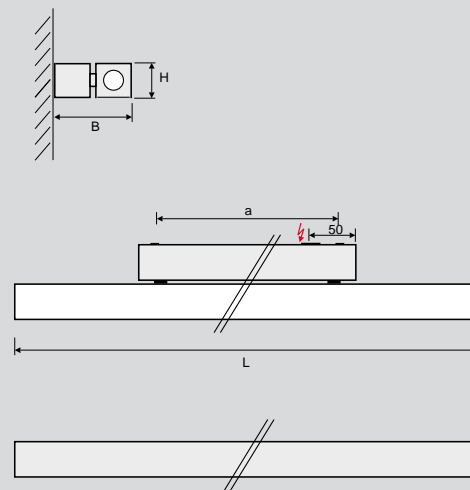
AD 210 W



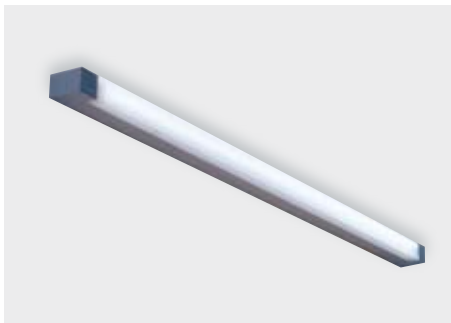
AD 210



WD 210 W

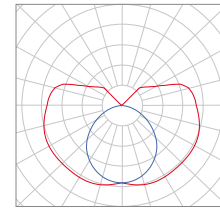


Mounted and wall luminaires made of aluminium
direct light beam

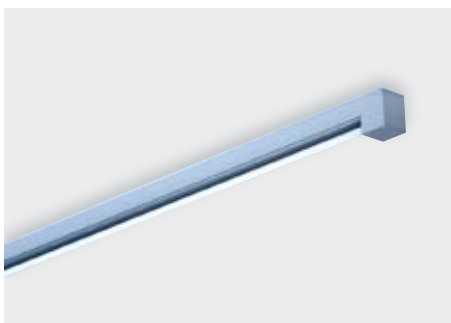


AD 210 W

- opal diffuser, frosted acrylic glass
- direct light beam
- naturally anodised extruded aluminium profile luminaire
- can be installed directly on a wall or ceiling

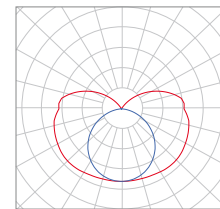


Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
AD 210W si 1x24	T5	G5	620	38	62	500	1,2	2821318
AD 210W si 1x21/39	T5	G5	920	38	62	700	1,7	2821320
AD 210W si 1x28/54	T5	G5	1220	38	62	1000	2,2	2821322
AD 210W si 1x35/49/80	T5	G5	1520	38	62	1300	2,7	2821324

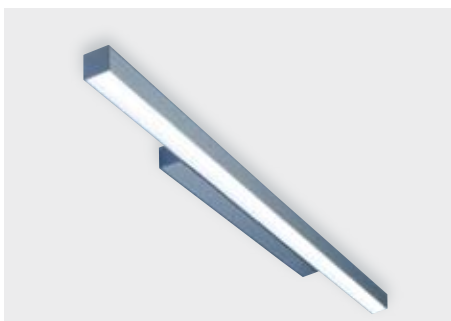


AD 210

- open distribution light strip
- direct light beam
- naturally anodised extruded aluminium profile luminaire
- can be installed directly on a wall or ceiling

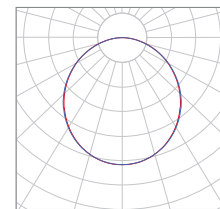


Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
AD 210 si 1x24	T5	G5	620	38	76	500	1,2	2821310
AD 210 si 1x21/39	T5	G5	920	38	76	700	1,7	2821312
AD 210 si 1x28/54	T5	G5	1220	38	76	1000	2,2	2821314
AD 210 si 1x35/49/80	T5	G5	1520	38	76	1300	2,7	2821316



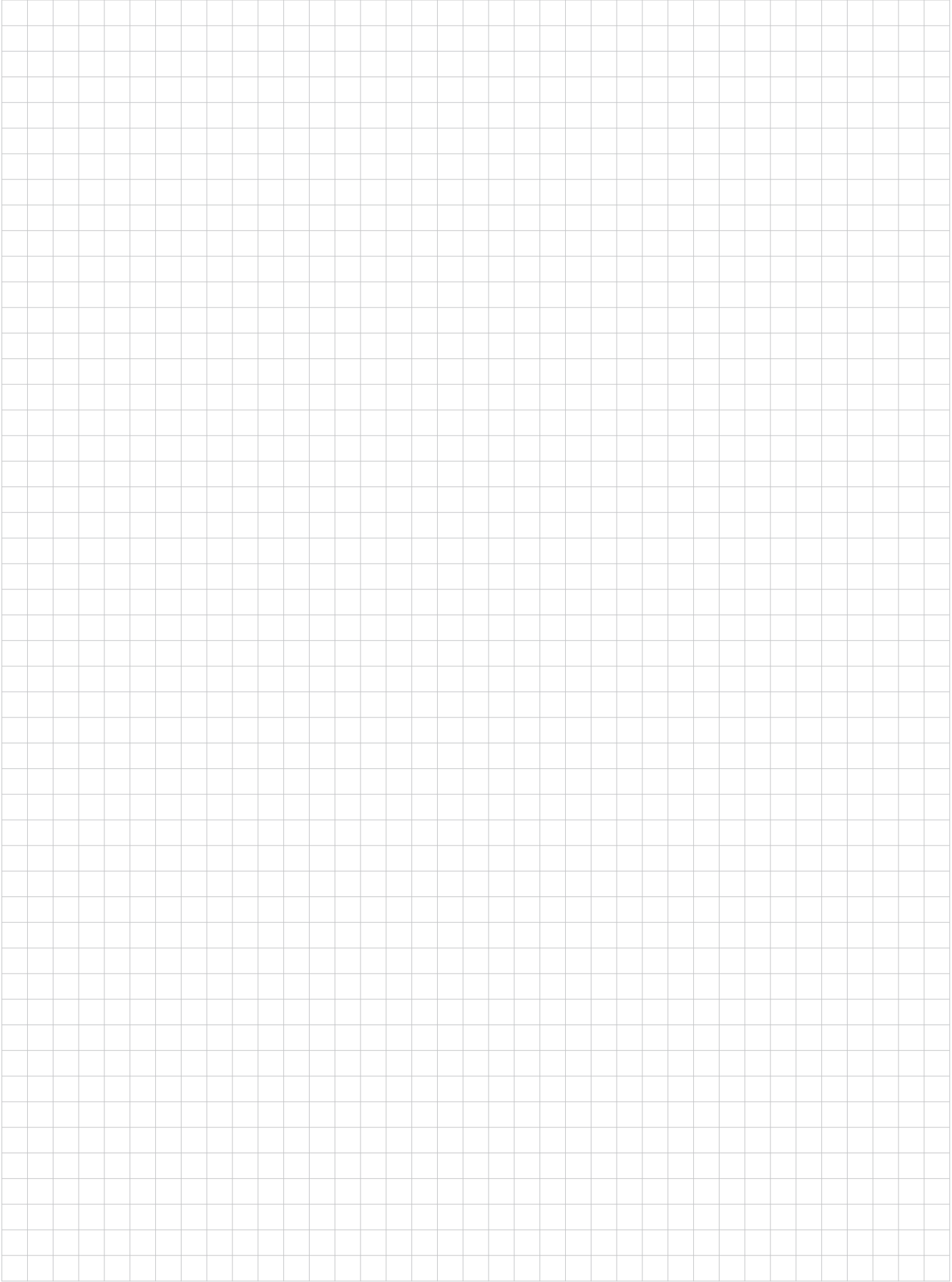
WD 210 W

- opal diffuser, frosted acrylic glass
- direct light beam
- naturally anodised extruded aluminium profile luminaire
- mounted directly on the wall



Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
WD 210 si 1x24	T5	G5	600	80	38	500	2,2	2821326
WD 210 si 1x21/39	T5	G5	900	80	38	500	2,4	2821328
WD 210 si 1x28/54	T5	G5	1200	80	38	500	2,6	2821330
WD 210 si 1x35/49/80	T5	G5	1500	80	38	500	2,9	2821332

- Architectural lighting
- Coved and illuminated ceiling lighting
- General lighting
- Office lighting /
louver luminaires
- Luminaires for
sports facilities
- Industrial lighting
- Damp-proof lights
- Outdoor lighting
- Appendix





Screen

Architectural lighting

Designer lights made of aluminium
direct/indirect light beam

These extremely flat designer office lights allow an amazing range of light presentations. They always adapt to the shape and atmosphere of the room.

Designer lights made of aluminium
direct/indirect light beam

AD 198 MP

Mounted light

Luminaire:

Extruded aluminium profile, silver powder-coated (RAL 9006).

Optics:

Microprism optics made of microstructured special acrylic glass.
Suitable for workplaces with monitors in accordance with EN 12464-1.
Direct/indirect light distribution.
Optimised for T5 fluorescent bulbs in terms of lighting technology.

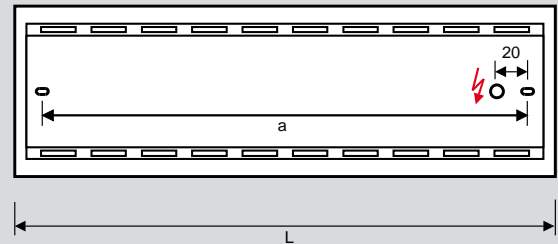
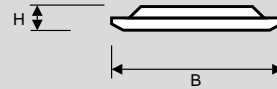
Electrical equipment:

Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Installation:

Directly on the ceiling.

AD 198 MP



PD 198 MP

Suspended light

Luminaire:

Extruded aluminium profile, silver powder-coated (RAL 9006).

Optics:

Microprism optics made of microstructured special acrylic glass.
Suitable for workplaces with monitors in accordance with EN 12464-1.
Direct/indirect light distribution.
Optimised for T5 fluorescent bulbs in terms of lighting technology.

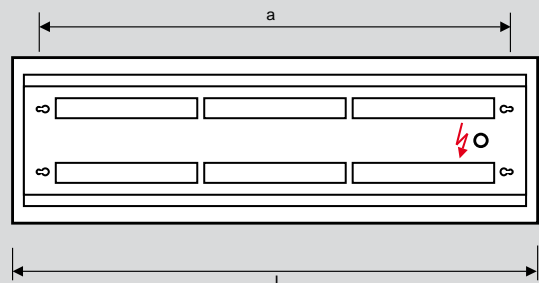
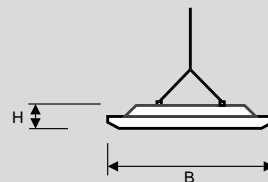
Electrical equipment:

Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Installation:

Tool-free and stepless vertically adjustable wire suspension with transparently coated lead.
Included in the delivery.

PD 198 MP



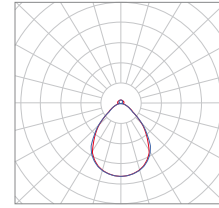
Special version with
sensor

Designer lights made of aluminium direct/indirect light beam



AD 198 MP

- microprism optics made of microstructured special acrylic glass
- suitable for workplaces with monitors in accordance with EN 12464-1
- direct/indirect light beam
- extruded aluminium profile, silver powder-coated luminaire (RAL 9006)
- mounted directly on the ceiling

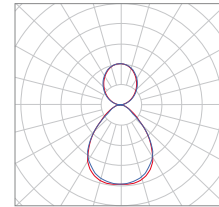


Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
AD 198MP si 2x28/54	T5	G5	1218	291	20+20	1126	2620012	
AD 198MP si 2x35/49/80	T5	G5	1518	291	20+20	1426	2620014	



PD 198 MP

- microprism optics made of microstructured special acrylic glass
- suitable for workplaces with monitors in accordance with EN 12464-1
- direct/indirect light beam
- extruded aluminium profile, silver powder-coated luminaire (RAL 9006)
- tool-free and stepless vertically adjustable wire suspension with transparently coated lead included



Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
PD 198MP si 2x28/54	T5	G5	1218	291	20+20	1126	2620016	
PD 198MP si 2x35/49/80	T5	G5	1518	291	20+20	1426	2620018	

Project solution



Screen shows its potential at the Airrail Center at Frankfurt Airport. Screen lights support the effect of the room without imposing themselves. But above all, light is directed where it is required.





Recessed downlights

Architectural lighting

Recessed downlights made of aluminium/premium-quality powder-coated sheet steel, direct light beam

Workplaces with monitors, office workplaces, corridors, foyers, sales rooms or private areas:
The strength of these lights is their ability to fulfil requirements of distribution and luminance flexibly.

Recessed downlight with high-power LED technology

DN 20 LED

Recessed light with compact construction.
Body made of aluminium / galvanised sheet steel.

Luminaire:

Premium quality galvanised sheet steel in connection with anodised aluminium cooling profiles.
 Cover ring, white (similar to RAL 9016).
 Separate ballast box.

Optics:

High-gloss aluminium spherical-facet reflector.
 Open or with different decorative plates that can be inserted or placed in a forward position.
 Direct light distribution. Optimised for the LED module in terms of lighting technology.
 Very high efficiency, $\tau=90\%$.
 Suitable for offices, schools, public buildings and fresh goods presentation.

Electrical equipment:

Electronic converter.

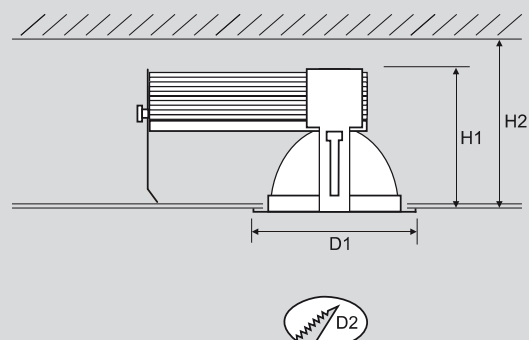
Installation:

Individual mounting in cut ceiling apertures. Tool-free fastening with support bracket.
 Decorative plates that can be inserted or placed in a frontal position.

Special features:

Exchangeable trim ring with bayonet socket.

DN 20 LED

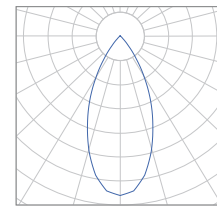


Recessed downlight with high-power LED technology



DN 20 LED

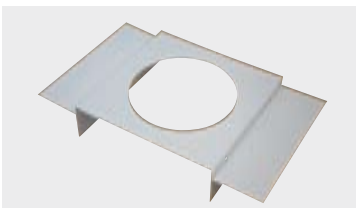
- very bright aluminium spherical-facet reflector
- suitable for offices, schools, public buildings and fresh goods presentation
- direct light beam
- premium-quality galvanised sheet steel luminaire in connection with anodised aluminium cooling profiles
- cover ring, white (similar to RAL 9016)
- decorative plates that can be inserted or placed in a frontal position
- individual mounting in cut ceiling apertures; tool-free fastening



IP20 $\eta=90\%$ IP44 with DV 28

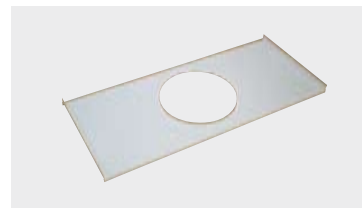
Model	Lamp	CCT* k	Luminous flux lm	Dimensions in mm				Article number
				D1	D2	H1	H2	
DN 20 LED 1100/830	LED Fortimo	3000	1100	190	165-175	190	240	1491002
DN 20 LED 1100/840	LED Fortimo	4000	1100	190	165-175	190	240	1491000
DN 20 LED 2000/830	LED Fortimo	3000	2000	190	165-175	190	240	1491006
DN 20 LED 2000/840	LED Fortimo	4000	2000	190	165-175	190	240	1491004
DN 20 LED 3000/830	LED Fortimo	3000	3000	190	165-175	190	240	1491028
DN 20 LED 3000/840	LED Fortimo	4000	3000	190	165-175	190	240	1491030

Accessories



MP 20

- mounting plates for embedding the downlights DN20 series in panelled ceiling module 100, size 285 x 285 mm, height 80 mm



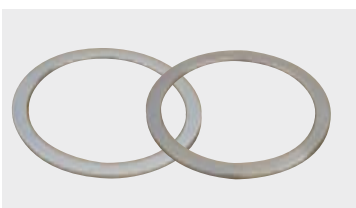
HP 20

- auxiliary mounting underlay plate for ceilings with visible or concealed support profiles, since ceiling panels (mineral fibre or similar) do not have enough holding capacity. Module construction size 625 mm



DR 20 si

- decorative trim ring, RAL 9006



DR 20 ch / DR 20 ch matt

- decorative trim ring, chrome high-gloss or chrome matt



DV 24 + DR 24

- decorative ring with internal satined glass plate IP44



DV 28 + DR 28

- decorative ring with frontally positioned partially satined decorative glass plate

Model	Description	Article number
MP 20	Mounting plate for embedding in panelled ceiling module 100, 285x285 mm	1500214
HP 20	Auxiliary underlay mounting plate for ceilings with visible or concealed, module 625	1500216
DR 20 si	Decorative ring RAL 9006 for the DN20 series, for any exchange required in the future	1500218
DR 20 ch	Decorative ring chromed for the DN20 series, for any exchange required in the future	1500220
DR 20 ch matt	Decorative ring matt chromed for the DN20 series, for any exchange required in the future	1500222
DV 24 + DR 24	Decorative ring with internal satined glass plate IP44 for the DN20 series, for any exchange required in the future	1500226
DV 28 + DR 28	Decorative ring with frontally positioned partially satined decorative glass plate for the DN20 series, for any exchange required in the future	1500228

Recessed downlight with high-power LED technology

DN 100 LED

Recessed light with compact construction.
Body made of aluminium / galvanised sheet steel.

Luminaire:

Premium quality galvanised sheet steel in connection with anodised aluminium cooling profile.
 Cover ring, white (similar to RAL 9016).

Optics:

High-gloss, matt or whiter aluminium reflector.
 Open or with different decorative plates that can be inserted or placed in a frontal position.
 Direct light distribution. Optimised for the LED module in terms of lighting technology.
 Very high efficiency.
 Suitable for offices, schools or public buildings.

Electrical equipment:

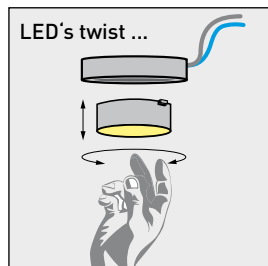
3-pin quick plug terminal, dimmable with trailing edge dimmer.

Installation:

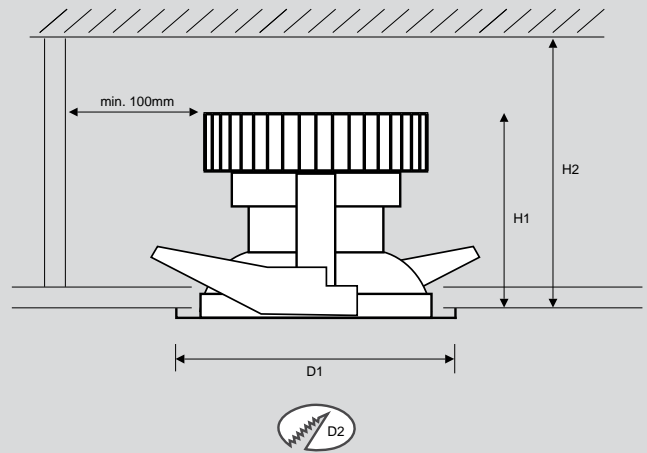
Individual mounting in cut ceiling apertures.
 Tool-free fastening with spring steel bracket.

Special features:

The LED module can be exchanged tool-free due to the bayonet socket.



DN 100 LED

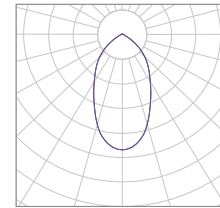


Recessed downlight with high-power LED technology

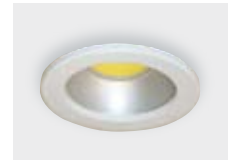
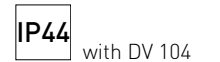


DN 100 LED

- metal reflector made of aluminium, high-gloss, matt or white
 - suitable for offices, schools or public buildings
 - direct light beam
 - premium-quality galvanised sheet steel luminaire in connection with anodised aluminium cooling profiles
 - cover ring, white (similar to RAL 9016)
 - decorative plates that can be inserted or placed in a forward position
 - individual mounting in cut ceiling apertures; tool-free fastening with spring steel bracket
- The LED module can be exchanged tool-free due to the bayonet socket.



reflector, white



reflector, matt

Model	Lamp	CCT* k	Luminous flux lm	Reflector	Dimensions in mm				Article number
					D1	D2	H1	H2	
DN 100 LED 1040/827	LED Fortimo	2700	1040	high-gloss	145	125	100	150	1491100
DN 100 LED 1100/830	LED Fortimo	3000	1100	high-gloss	145	125	100	150	1491103
DN 100 LED 1100/840	LED Fortimo	4000	1100	high-gloss	145	125	100	150	1491106
DN 101 LED 1040/827	LED Fortimo	2700	1040	matt	145	125	100	150	1491101
DN 101 LED 1100/830	LED Fortimo	3000	1100	matt	145	125	100	150	1491104
DN 101 LED 1100/840	LED Fortimo	4000	1100	matt	145	125	100	150	1491107
DN 102 LED 1040/827	LED Fortimo	2700	1040	white	145	125	100	150	1491102
DN 102 LED 1100/830	LED Fortimo	3000	1100	white	145	125	100	150	1491105
DN 102 LED 1100/840	LED Fortimo	4000	1100	white	145	125	100	150	1491108

*Correlated colour temperature

Accessories



DV 104 + DR 104

- decorative ring with internal satined glass plate IP44 for the DN100 series



DV 108 + DR 108

- decorative ring with frontally positioned, partially satined decorative glass plate for the DN100 series

Model	Description	Article number
DV 104 + DR 104	Decorative ring with internal satined glass plate IP44 for the DN100 series, for any exchange required in the future	1500230
DV 108 + DR 108	Decorative ring with frontally positioned, partially satined decorative glass plate for the DN100 series, for any exchange required in the future	1500232

Fortimo LED-Technik by

PHILIPS

Recessed downlight with high-power LED technology

DN 110 LED

Recessed light with compact construction.
Aluminium / galvanised sheet steel body.

Luminaire:

Premium quality galvanised sheet steel in connection with anodised aluminium cooling profile.
Cover ring, white (similar to RAL 9016).

Optics:

High-gloss, matt or white aluminium reflector.
Open or with different decorative plates that can be inserted or placed in a frontal position.
Direct light distribution. Optimised for the LED module in terms of lighting technology.
Very high efficiency.
Suitable for offices, schools or public buildings.

Electrical equipment:

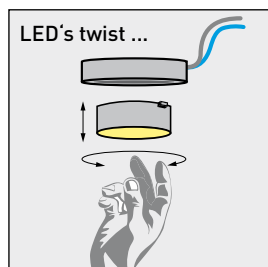
3-pin quick plug terminal, dimmable with trailing edge dimmer.

Installation:

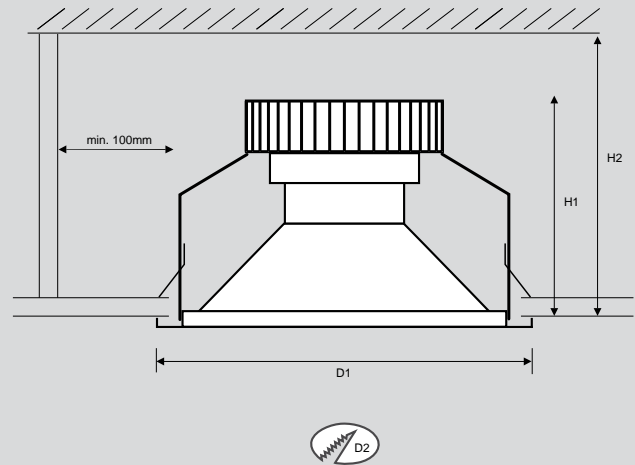
Individual mounting in cut ceiling apertures.
Tool-free fastening with spring steel bracket.

Special features:

The LED module can be exchanged tool-free due to the bayonet socket.



DN 110 LED

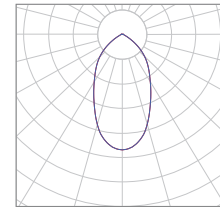


Recessed downlight with high-power LED technology



DN 110 LED

- metal reflector made of aluminium, high-gloss, matt or white
- suitable for offices, schools or public buildings
- direct light beam
- premium-quality galvanised sheet steel luminaire in connection with anodised aluminium cooling profiles
- cover ring, white (similar to RAL 9016)
- decorative plates that can be inserted or placed in a forward position
- individual mounting in cut ceiling apertures; tool-free fastening with spring steel bracket
- LED module can be exchanged tool-free due to the bayonet socket



Model	Lamp	CCT* k	Luminous flux lm	Reflector	Dimensions in mm				Article number
					D1	D2	H1	H2	
DN 110 LED 1040/827	LED Fortimo	3000	1040	high-gloss	220	195-205	130	180	1491130
DN 110 LED 1100/830	LED Fortimo	3000	1100	high-gloss	220	195-205	130	180	1491132
DN 110 LED 1100/840	LED Fortimo	4000	1100	high-gloss	220	195-205	130	180	1491134
DN 111 LED 1040/827	LED Fortimo	3000	1040	matt	220	195-205	130	180	1491136
DN 111 LED 1100/830	LED Fortimo	3000	1100	matt	220	195-205	130	180	1491138
DN 111 LED 1100/840	LED Fortimo	4000	1100	matt	220	195-205	130	180	1491140
DN 112 LED 1040/827	LED Fortimo	3000	1040	white	220	195-205	130	180	1491142
DN 112 LED 1100/830	LED Fortimo	3000	1100	white	220	195-205	130	180	1491144
DN 112 LED 1100/840	LED Fortimo	4000	1100	white	220	195-205	130	180	1491146
DN 110 LED 2000/830	LED Fortimo	3000	2000	high-gloss	220	195-205	130	200	1491148
DN 110 LED 2000/840	LED Fortimo	4000	2000	high-gloss	220	195-205	130	200	1491150
DN 111 LED 2000/830	LED Fortimo	3000	2000	matt	220	195-205	130	200	1491152
DN 111 LED 2000/840	LED Fortimo	4000	2000	matt	220	195-205	130	200	1491154
DN 112 LED 2000/830	LED Fortimo	3000	2000	white	220	195-205	130	200	1491156
DN 112 LED 2000/840	LED Fortimo	4000	2000	white	220	195-205	130	200	1491158

*Correlated colour temperature

Accessories



DV 34 + DR 34
decorative ring with internal satined glass plate IP44 for the DN100 series



DV 38 + DR 38
decorative ring with frontally positioned, partially satined decorative glass plate for the DN100 series

Model	Description	Article number
DV34 + DR34 ws	decorative ring with internal satined glass plate IP44 for the DN110LED series, for any exchange required in the future	1500212
DV38 + DR38 ws	decorative ring with frontally positioned, partially satined decorative glass plate for the DN110LED series, for any exchange required in the future	1500116

In addition, all accessory parts fit the DN30.

Fortimo LED-Technik by
PHILIPS

Recessed downlight

DN 30, DN 34, DN 38

Recessed light with compact construction and a very low construction height of 72 mm. Premium-quality galvanised sheet steel body.

Luminaire:

Premium quality galvanised sheet steel.
Cover ring, white (similar to RAL 9016).
Separate ballast box.

Optics:

High-gloss, faceted aluminium reflector.
Open or with different decorative plates that can be inserted or placed in a forward position.
Direct light distribution. Optimised for TC-DEL in terms of lighting technology.
Suitable for office workplaces, schools, public buildings, corridors, foyers or private areas.

Electrical equipment:

3-pin connecting terminal with release button, double cable inlet.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available with emergency lamp socket or emergency battery (1h/3h).

Installation:

Individual mounting in cut ceiling apertures. Tool-free fastening.
Decorative plates that can be inserted or placed in a forward position.

Special features:

Also available in the same optics with an anti-glare BAP louver.
Construction height is then 140 mm.

N.B.:

Only fits Philips PL-T and PL-T Top in the 2x26/32/42 version.

DN 30 HIT

Luminaire:

Premium quality galvanised sheet steel.
Cover ring, white (similar to RAL 9016).
Separate ballast box.

Optics:

High-gloss aluminium metal reflector with set back protective plate.
Different decorative plates that can be inserted or placed in a frontal position.
Direct light distribution. Optimised for HIT-DE lamps in terms of lighting technology.
Suitable for high rooms in shops, corridors or foyers.

Electrical equipment:

3-pin connecting terminal.
Electronic ballast (EVG) as accessory.

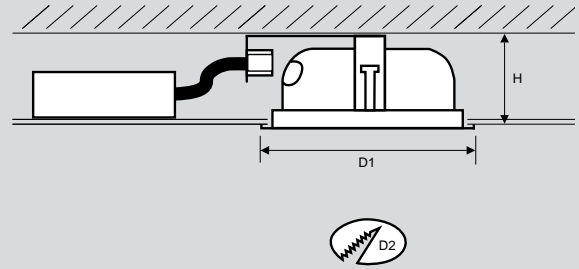
Installation:

Individual mounting in cut ceiling apertures. Tool-free fastening.
Decorative plates that can be inserted or placed in a forward position.

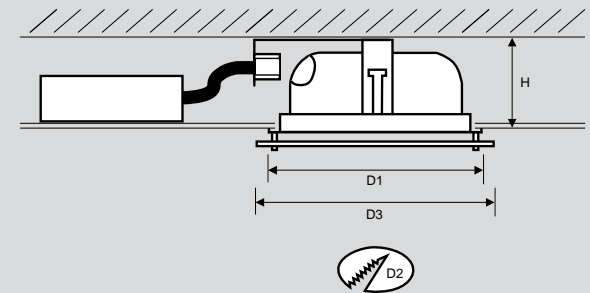
The low construction height makes this downlight particularly versatile



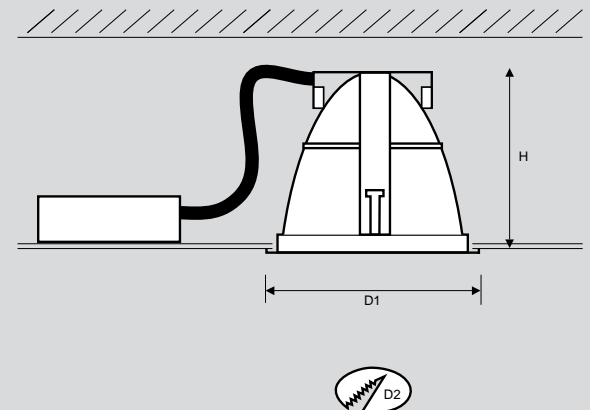
DN 30 / DN 34



DN 38



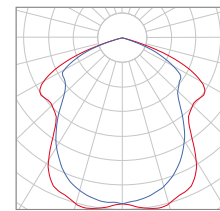
DN 30 HIT





DN 30

- high-gloss, faceted aluminium reflector
- cover ring, white (RAL 9016)
- suitable for office workplaces, schools, public buildings, corridors, foyers or private areas

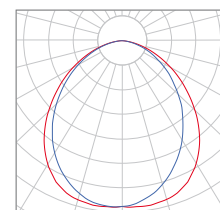


Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			D1	D2	H1		
DN 30 1x13	TC-DEL	G24q-1	220	195-205	72	1,05	2500120
DN 30 1x18	TC-DEL	G24q-2	220	195-205	72	1,05	2500122
DN 30 1x26/32/42	TC-TEL	GX24q-3	220	195-205	72	1,05	2500104
DN 30 2x13	TC-DEL	G24q-1	220	195-205	72	1,05	2500130
DN 30 2x18	TC-DEL	G24q-2	220	195-205	72	1,05	2500132
DN 30 2x26/32/42	TC-TEL	GX24q-3	220	195-205	72	1,05	2500114



DN 34

- high-gloss, faceted aluminium reflector
- cover ring, white (RAL 9016)
- internal satined glass plate (ESG)
- suitable for office workplaces, schools, public buildings, corridors, foyers or private areas

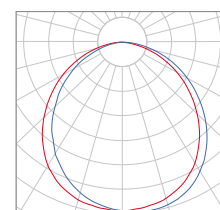


Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			D1	D2	H1		
DN 34 1x13	TC-DEL	G24q-1	220	195-205	72	1,3	2500180
DN 34 1x18	TC-DEL	G24q-2	220	195-205	72	1,3	2500182
DN 34 1x26/32/42	TC-TEL	GX24q-3	220	195-205	72	1,3	2500164
DN 34 2x13	TC-DEL	G24q-1	220	195-205	72	1,3	2500190
DN 34 2x18	TC-DEL	G24q-2	220	195-205	72	1,3	2500192
DN 34 2x26/32/42	TC-TEL	GX24q-3	220	195-205	72	1,3	2500174



DN 38

- high-gloss, faceted aluminium reflector
- cover ring, white (RAL 9016)
- frontally positioned, partially satined decorative glass plate
- suitable for office workplaces, schools, public buildings, corridors, foyers or private areas



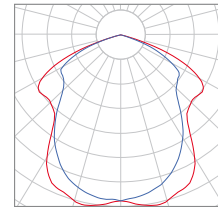
Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			D1	D2	H1	D3		
DN 38 1x13	TC-DEL	G24q-1	220	195-205	72	240	1,35	2500270
DN 38 1x18	TC-DEL	G24q-2	220	195-205	72	240	1,35	2500272
DN 38 1x26/32/42	TC-TEL	GX24q-3	220	195-205	72	240	1,35	2500254
DN 38 2x13	TC-DEL	G24q-1	220	195-205	72	240	1,35	2500280
DN 38 2x18	TC-DEL	G24q-2	220	195-205	72	240	1,35	2500282
DN 38 2x26/32/42	TC-TEL	GX24q-3	220	195-205	72	240	1,35	2500264

Recessed downlight



DN 30 HIT

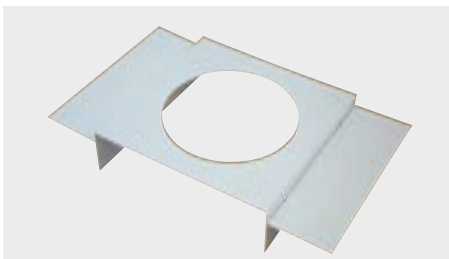
- high-gloss aluminium metal reflector
- suitable for high rooms in shops, corridors or foyers (optimised for HIT-DE lamps)
- direct light beam
- premium-quality galvanised sheet steel luminaire
- cover ring, white (similar to RAL 9016)
- decorative plates that can be inserted or placed in a forward position
- individual mounting in cut ceiling apertures; tool-free fastening



Model	Lamp	Version	Dimensions in mm			Article number
			D1	D2	H1	
DN 30 HIT 1x35	HIT-DE	RX7s	220	195-205	165	2500290
DN 30 HIT 1x70	HIT-DE	RX7s	220	195-205	165	2500292
DN 30 HIT 1x150	HIT-DE	RX7s	220	195-205	165	2500294

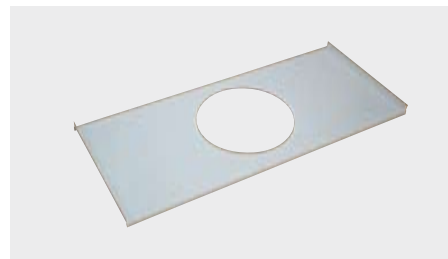
Accessories

Model	Description	Article number
HID-PV C 035 I CDM	EVG including ignition cable	1486267
HID-PV C 070 I CDM	EVG including ignition cable	1486249
HID-PV C 150 I CDM	EVG including ignition cable	1486254



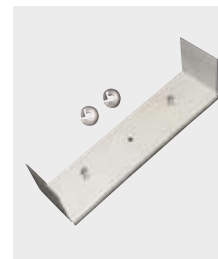
MP 30

- mounting plate for embedding series 30 downlights in panelled ceiling module 100, size 285 x 285 mm, height 80 mm.



HP 30

- auxiliary underlay mounting plate for ceilings with visible or concealed support profiles, because ceiling panels (mineral fibre or similar) do not have enough holding capacity. Module construction size 625 mm.



HB 30

- auxiliary clip for fastening into Kaiser concrete casting box
- not for HIT version



DR 30 si

- decorative trim ring, RAL 9006



DR 30 ch

- decorative trim ring, chrome, high-gloss



DR 30 ch matt

- decorative trim ring, chrome, matt

Model	Description	Article number
MP 30	Mounting plate for embedding in panelled ceiling module 100, 285 x 285 mm	1500200
HP 30	Auxiliary underlay mounting plate for ceilings with visible or concealed support profiles, module 625	1500202
HB 30	Auxiliary clip for fastening into Kaiser Kompax 2 concrete casting box	1500203
DR 30 si	RAL 9006 decorative ring for the DN30 series, for any exchange required in the future	1500204
DR 30 ch	Chromed decorative ring for the DN30 series, for any exchange required in the future	1500206
DR 30 ch matt	Chromed matt decorative ring for the DN30 series, for any exchange required in the future	1500210

Architectural Lighting
 Coved and illuminated ceiling lighting
 General lighting
 Office lighting / lower luminaires
 Luminaires for sports facilities
 Industrial lighting
 Damp-proof lights
 Outdoor lighting
 Appendix

Premium recessed downlights from KANDEM create a nice light atmosphere even in the grandest of surroundings.



Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting /
louver luminaires

Luminaires for
sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Recessed downlight

DN 60, DN 64, DN 67, DN 68, DN 69

Luminaire:

Premium quality powder-coated sheet steel, signal white (RAL 9003).

Optics:

High-gloss aluminium reflector (also available faceted on request).
Open or with turbo louver.
Different decorative plates that can be inserted or placed in a frontal position.
Direct light distribution. Optimised for TC-DEL in terms of lighting technology.
Suitable for office workplaces, schools, public buildings, corridors, foyers or private areas.

Electrical equipment:

3-pin connecting terminal with release button, double cable inlet.
Electromagnetic ballast B2, electronic ballast.
Special versions available, e.g. adjustable EVG 1-10 V, DALI, safety lighting versions available with emergency lamp socket or emergency battery (1h/3h).

Installation:

Individual mounting in cut ceiling apertures. Tool-free fastening with spring steel bracket.
Decorative plates that can be inserted or placed in a forward position.

DF 60

Luminaire:

Premium quality powder-coated sheet steel, signal white (RAL 9003).

Optics:

Asymmetrical high-gloss aluminium reflector.
Direct light distribution asymmetrical. Optimised for TC-DEL in terms of lighting technology.
Suitable for office workplaces, schools, public buildings, corridors, foyers or private areas.

Electrical equipment:

3-pin connecting terminal with release button, double cable inlet.
Electronic ballast.
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available with emergency lamp socket or emergency battery (1h/3h).

Installation:

Individual mounting in cut ceiling apertures. Tool-free fastening with spring steel bracket.

DN 64 HIT

Luminaire:

Premium quality powder-coated sheet steel, signal white (RAL 9003).

Optics:

High-gloss aluminium reflector.
Direct light distribution. Optimised for HIT lamps in terms of lighting technology.
Suitable for high rooms in shops, corridors or foyers.

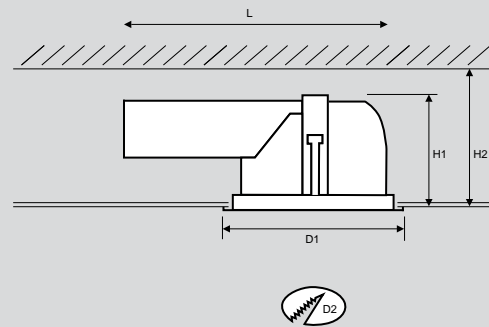
Electrical equipment:

3-pin connecting terminal.
Electronic ballast (EVG) as accessory.

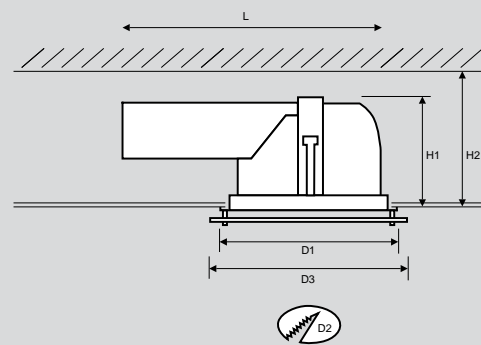
Installation:

Individual mounting in cut ceiling apertures. Tool-free fastening with spring steel bracket.

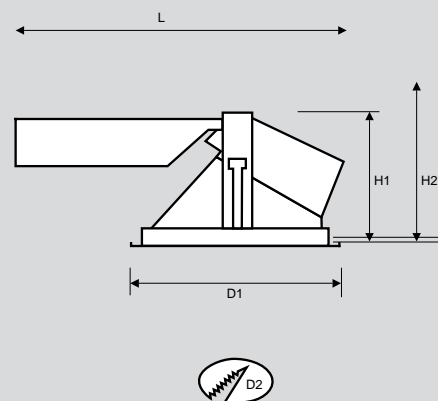
DN 60, DN 64, DN 67



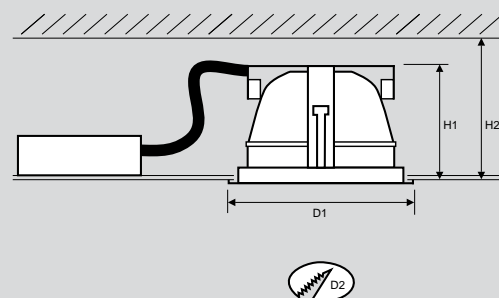
DN 68, DN 69



DF 60



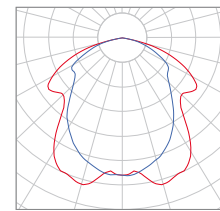
DN 64 HIT





DN 60

- high-gloss aluminium reflector (faceted also available on request)
- cover ring, signal white (RAL 9003)
- suitable for office workplaces, public buildings, corridors, foyers or private areas



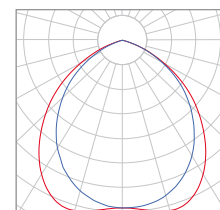
Model	Lamp	Version	AG	Dimensions in mm					Article number
				D1	D2	H1	H2	L	
DN 60 1x13 EVG	TC-DEL	G24 q-1	I	195	175	100	130	285	2620300
DN 60 1x18 EVG	TC-DEL	G24 q-2	I	195	175	100	130	285	2620301
DN 60 1x26 EVG	TC-DEL	G24 q-3	II*	225	205	130	160	325	2620304
DN 60 1x26/32 EVG	TC-TEL	GX24 q-3	II	225	205	130	160	325	2620305
DN 60 1x42 EVG	TC-TEL	GX24 q-4	II	225	205	130	160	325	2620306
DN 60 2x13 EVG	TC-DEL	G24 q-1	I	195	175	100	130	285	2620302
DN 60 2x18 EVG	TC-DEL	G24 q-2	I	195	175	100	130	285	2620303
DN 60 2x26 EVG	TC-DEL	G24 q-3	II*	225	205	130	160	325	2620307
DN 60 2x26/32 EVG	TC-TEL	GX24 q-3	II	225	205	130	160	325	2620308
DN 60 1x13 VVG	TC-D	G24 d-1	I	195	175	100	130	285	1620300
DN 60 1x18 VVG	TC-D	G24 d-2	I	195	175	100	130	285	1620301
DN 60 1x26 VVG	TC-D	G24 d-3	II*	225	205	130	160	325	1620304
DN 60 2x13 VVG	TC-D	G24 d-1	I	195	175	100	130	285	1620302
DN 60 2x18 VVG	TC-D	G24 d-2	I	195	175	100	130	285	1620303
DN 60 2x26 VVG	TC-D	G24 d-3	II*	225	205	130	160	325	1620307

* Also available in Assembly Group I



DN 64

- high-gloss aluminium reflector (faceted also available on request)
- cover ring, signal white (RAL 9003)
- internal satined glass plate
- suitable for office workplaces, schools, public buildings, corridors, foyers or private areas



Model	Lamp	Version	AG	Dimensions in mm					Article number
				D1	D2	H1	H2	L	
DN 64 1x13 EVG	TC-DEL	G24 q-1	I	195	175	100	130	285	2620310
DN 64 1x18 EVG	TC-DEL	G24 q-2	I	195	175	100	130	285	2620311
DN 64 1x26 EVG	TC-DEL	G24 q-3	II*	225	205	130	160	325	2620314
DN 64 1x26/32 EVG	TC-TEL	GX24 q-3	III	265	240	145	175	370	2620315
DN 64 1x42 EVG	TC-TEL	GX24 q-4	III	265	240	145	175	370	2620316
DN 64 2x13 EVG	TC-DEL	G24 q-1	I	195	175	100	130	285	2620312
DN 64 2x18 EVG	TC-DEL	G24 q-2	I	195	175	100	130	285	2620313
DN 64 2x26 EVG	TC-DEL	G24 q-3	II*	225	205	130	160	325	2620317
DN 64 2x26/32 EVG	TC-DEL	GX24 q-3	III	265	240	145	175	370	2620318
DN 64 1x13 VVG	TC-D	G24 d-1	I	195	175	100	130	285	1620310
DN 64 1x18 VVG	TC-D	G24 d-2	I	195	175	100	130	285	1620311
DN 64 1x26 VVG	TC-D	G24 d-3	II*	225	205	130	160	325	1620314
DN 64 2x13 VVG	TC-D	G24 d-1	I	195	175	100	130	285	1620312
DN 64 2x18 VVG	TC-D	G24 d-2	I	195	175	100	130	285	1620313
DN 64 2x26 VVG	TC-D	G24 d-3	II*	225	205	130	160	325	1620317

* Also available in Assembly Group I

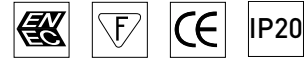
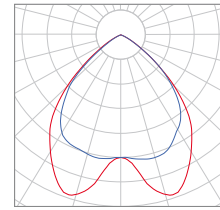
EVG: electronic ballast; VVG: electromagnetic ballast

Recessed downlight



DN 67

- high-gloss aluminium metal reflector (faceted also available on request)
- cover ring, signal white (RAL 9003)
- 7-cell ring louvre
- suitable for office workplaces, schools, public buildings, corridors, foyers or private areas



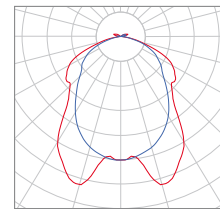
Model	Lamp	Version	AG	Dimensions in mm					Article number
				D1	D2	H1	H2	L	
DN 67 1x13 EVG	TC-DEL	G24 q-1	I	195	175	120	150	285	2620320
DN 67 1x18 EVG	TC-DEL	G24 q-2	I	195	175	120	150	285	2620321
DN 67 1x26 EVG	TC-DEL	G24 q-3	II*	225	205	145	175	325	2620324
DN 67 1x26/32 EVG	TC-TEL	GX24 q-3	III	265	240	165	190	370	2620325
DN 67 1x42 EVG	TC-TEL	GX24 q-4	III	265	240	165	190	370	2620326
DN 67 2x13 EVG	TC-DEL	G24 q-1	I	195	175	120	150	285	2620322
DN 67 2x18 EVG	TC-DEL	G24 q-2	I	195	175	120	150	285	2620323
DN 67 2x26 EVG	TC-DEL	G24 q-3	II*	225	205	145	175	325	2620327
DN 67 2x26/32 EVG	TC-TEL	GX24 q-3	III	265	240	165	190	370	2620328
DN 67 1x13 WVG	TC-D	G24 d-1	I	195	175	120	150	285	1620320
DN 67 1x18 WVG	TC-D	G24 d-2	I	195	175	120	150	285	1620321
DN 67 1x26 WVG	TC-D	G24 d-3	II*	225	205	145	175	325	1620324
DN 67 2x13 WVG	TC-D	G24 d-1	I	195	175	120	150	285	1620322
DN 67 2x18 WVG	TC-D	G24 d-2	I	195	175	120	150	285	1620323
DN 67 2x26 WVG	TC-D	G24 d-3	II*	225	205	145	175	325	1620327

* Also available in Assembly Group I



DN 68

- high-gloss aluminium metal reflector (faceted also available on request)
- cover ring, signal white (RAL 9003)
- frontally positioned, partially satined decorative glass plate, open in the middle
- suitable for office workplaces, schools, public buildings, corridors, foyers or private areas



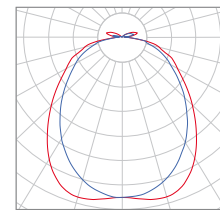
Model	Lamp	Version	AG	Dimensions in mm					Article number	
				D1	D2	H1	H2	L		D3
DN 68 1x13 EVG	TC-DEL	G24 q-1	I	195	175	100	130	285	242	2620820
DN 68 1x18 EVG	TC-DEL	G24 q-2	I	195	175	100	130	285	242	2620822
DN 68 1x26 EVG	TC-DEL	G24 q-3	II*	225	205	130	160	325	272	2620824
DN 68 1x26/32 EVG	TC-TEL	GX24 q-3	II	225	205	130	160	325	272	2620826
DN 68 1x42 EVG	TC-TEL	GX24 q-4	II	225	205	130	160	325	272	2620336
DN 68 2x13 EVG	TC-DEL	G24 q-1	I	195	175	100	130	285	242	2620828
DN 68 2x18 EVG	TC-DEL	G24 q-2	I	195	175	100	130	285	242	2620830
DN 68 2x26 EVG	TC-DEL	G24 q-3	II*	225	205	130	160	325	272	2620832
DN 68 2x26/32 EVG	TC-TEL	GX24 q-3	II	225	205	130	160	325	272	2620834
DN 68 1x13 WVG	TC-D	G24 d-1	I	195	175	100	130	285	242	1620840
DN 68 1x18 WVG	TC-D	G24 d-2	I	195	175	100	130	285	242	1620842
DN 68 1x26 WVG	TC-D	G24 d-3	II*	225	205	130	160	325	272	1620844
DN 68 2x13 WVG	TC-D	G24 d-1	I	195	175	100	130	285	242	1620846
DN 68 2x18 WVG	TC-D	G24 d-2	I	195	175	100	130	285	242	1620848
DN 68 2x26 WVG	TC-D	G24 d-3	II*	225	205	130	160	325	272	1620850

* Also available in Assembly Group I



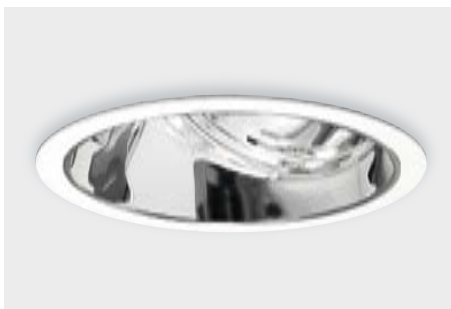
DN 69

- high-gloss aluminium metal reflector (faceted also available on request)
- cover ring, signal white (RAL 9003)
- frontally positioned, satined decorative glass plate with transparent rim
- suitable for office workplaces, schools, public buildings, corridors, foyers or private areas



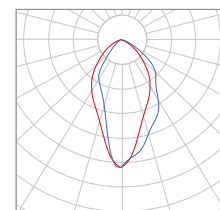
Model	Lamp	Version	AG	Dimensions in mm						Article number
				D1	D2	H1	H2	L	D3	
DN 69 1x13 EVG	TC-DEL	G24 q-1	I	195	175	100	130	285	242	2620860
DN 69 1x18 EVG	TC-DEL	G24 q-2	I	195	175	100	130	285	242	2620862
DN 69 1x26 EVG	TC-DEL	G24 q-3	II*	225	205	130	160	325	272	2620868
DN 69 1x26/32 EVG	TC-TEL	GX24 q-3	II	225	205	130	160	325	272	2620870
DN 69 1x42 EVG	TC-TEL	GX24 q-4	II	225	205	130	160	325	272	2620872
DN 69 2x13 EVG	TC-DEL	G24 q-1	I	195	175	100	130	285	242	2620864
DN 69 2x18 EVG	TC-DEL	G24 q-2	I	195	175	100	130	285	242	2620866
DN 69 2x26 EVG	TC-DEL	G24 q-3	II*	225	205	130	160	325	272	2620874
DN 69 2x26/32 EVG	TC-TEL	GX24 q-3	II	225	205	130	160	325	272	2620876
DN 69 1x13 VWG	TC-D	G24 d-1	I	195	175	100	130	285	242	1620880
DN 69 1x18 VWG	TC-D	G24 d-2	I	195	175	100	130	285	242	1620882
DN 69 1x26 VWG	TC-D	G24 d-3	II*	225	205	130	160	325	272	1620885
DN 69 2x13 VWG	TC-D	G24 d-1	I	195	175	100	130	285	242	1620883
DN 69 2x18 VWG	TC-D	G24 d-2	I	195	175	100	130	285	242	1620884
DN 69 2x26 VWG	TC-D	G24 d-3	II*	225	205	130	160	325	272	1620886

* Also available in Assembly Group I



DF 60

- asymmetrical high-gloss aluminium reflector
- suitable for office workplaces, schools, public buildings, corridors, foyers or private areas
- direct asymmetrical beam
- individual mounting in cut ceiling apertures; tool-free fastening with spring steel bracket



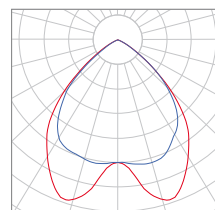
Model	Lamp	Version	AG	Dimensions in mm					Article number
				D1	D2	H1	H2	L	
DF 60 1x13 EVG	TC-DEL	G24 q-1	II	225	205	161	170	250	2620080
DF 60 2x13 EVG	TC-DEL	G24 q-1	II	225	205	161	170	250	2620082

Recessed downlight



DN 64 HIT

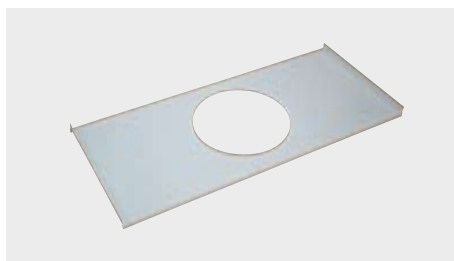
- high-gloss aluminium metal reflector
- suitable for high rooms in shops, corridors or foyers (optimised for HIT-DE lamps)
- direct light beam
- premium-quality powder-coated sheet steel luminaire, signal white (RAL 9003)
- cover ring, white (similar to RAL 9016)
- decorative plates that can be inserted or placed in a forward position
- individual mounting in cut ceiling apertures; tool-free fastening with spring steel bracket



Model	Lamp	Version	AG	Dimensions in mm				Article number
				D1	D2	H1	H2	
DN 64 HIT 35/70/150	HIT	G12	I	195	175	120	130	2620084
DN 64 HIT 70	HIT-DE	RX7s	I	195	175	110	120	2620086
DN 64 HIT 150	HIT-DE	RX7s	I	195	175	110	120	2620088

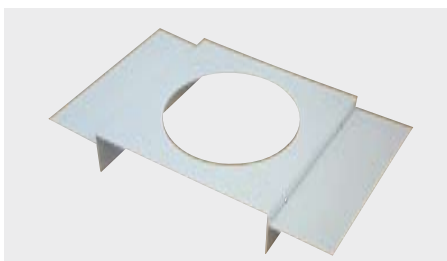
Accessories

Model	Description	Article number
HID-PV C 035 I CDM	EVG including ignition cable	1486267
HID-PV C 070 I CDM	EVG including ignition cable	1486249
HID-PV C 150 I CDM	EVG including ignition cable	1486254



HP 60

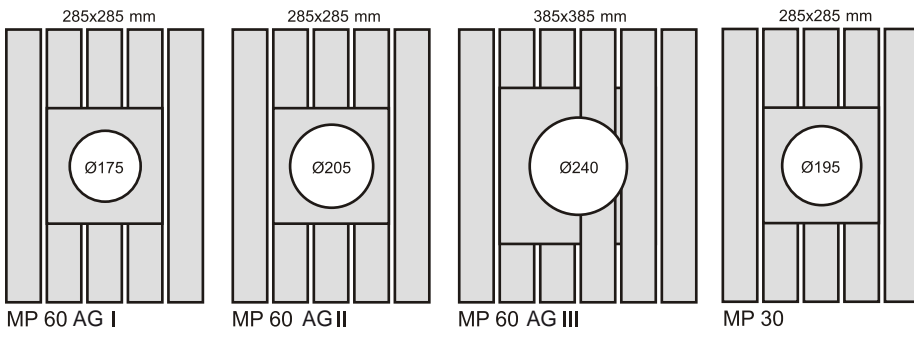
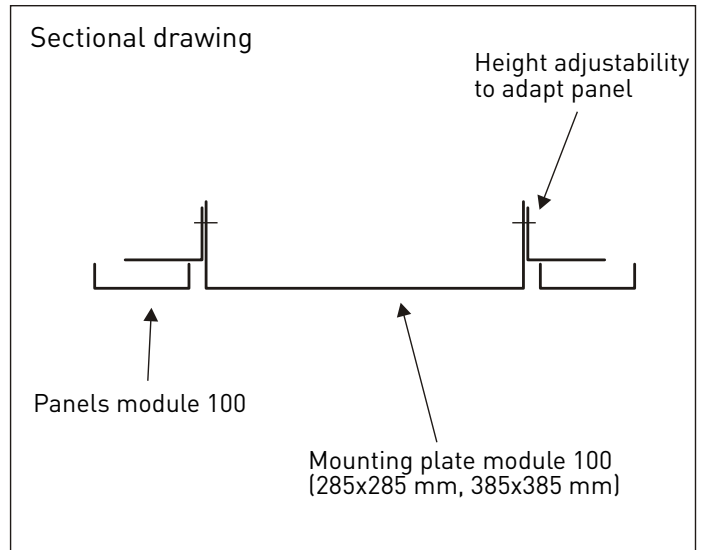
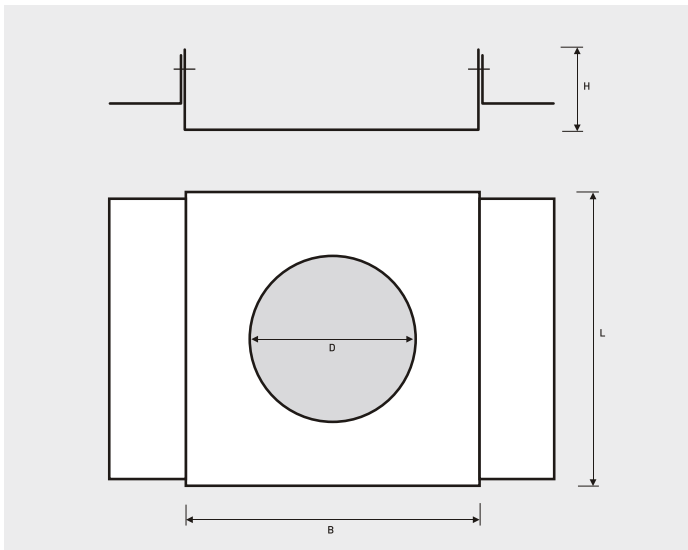
- auxiliary underlay mounting plate for ceilings with visible or concealed support profiles, because ceiling panels (mineral fibre or similar) do not have enough holding capacity
- Module construction size 625 mm



MP 60

- mounting plate for embedding series 60 downlights in panelled ceiling module 100
- Size 285 x 285 mm / 385 x 385 mm Height 80 mm for AG I, II, III

Model	Description	Article number
MP 60 AG I	Mounting plate for embedding in panelled ceiling module 100, 285x285 mm	1620340
MP 60 AG II	Mounting plate for embedding in panelled ceiling module 100, 285x285 mm	1620342
MP 60 AG III	Mounting plate for embedding in panelled ceiling module 100, 385x385 mm	1620344
HP 60 AG I	Auxiliary underlay mounting plate for ceilings with visible or concealed support profiles, module 625	1620346
HP 60 AG II	Auxiliary underlay mounting plate for ceilings with visible or concealed support profiles, module 625	1620348
HP 60 AG III	Auxiliary underlay mounting plate for ceilings with visible or concealed support profiles, module 625	1620350



Recessed downlight

DN 80

Luminaire:

Premium quality powder-coated sheet steel, signal white (RAL 9003). Separate ballast box.

Optics:

High-gloss aluminium metal reflector. Direct light distribution. Optimised for TC-DEL in terms of lighting technology. Suitable for office workplaces, schools, public buildings, corridors, foyers or private areas.

Electrical equipment:

5-pole connecting terminal with release button, double cable inlet. Electronic ballast. Special versions available, e.g. adjustable EVG 1-10 V, DALI, safety lighting versions available with emergency lamp socket or emergency battery (1h/3h).

Installation:

Individual mounting in cut ceiling apertures. Tool-free fastening with spring steel bracket.

Accessories:

Auxiliary mounting plate for panelled ceilings (MP80).

DN 84

Luminaire:

Premium quality powder-coated sheet steel, signal white (RAL 9003). Separate ballast box.

Optics:

Matt aluminium metal reflector with satined glass cover. Direct light distribution. Optimised for TC-DEL in terms of lighting technology. Suitable for office workplaces, schools, public buildings, corridors, foyers or private areas.

Electrical equipment:

5-pole connecting terminal with release button, double cable inlet. Electronic ballast. Special versions available, e.g. adjustable EVG 1-10 V, DALI, safety lighting versions available with emergency lamp socket or emergency battery (1h/3h).

Installation:

Individual mounting in cut ceiling apertures. Tool-free fastening with spring steel bracket.

Accessories:

Auxiliary mounting plate for panelled ceilings (MP80).

DN 87

Luminaire:

Premium quality powder-coated sheet steel, signal white (RAL 9003). Separate ballast box.

Optics:

High-gloss polished aluminium reflector with integrated anti-glare cross baffle. Direct light distribution. Optimised for TC-DEL in terms of lighting technology. Suitable for office workplaces, schools, public buildings, corridors, foyers or private areas.

Electrical equipment:

5-pole connecting terminal with release button, double cable inlet. Electronic ballast. Special versions available, e.g. adjustable EVG 1-10 V, DALI, safety lighting versions available with emergency lamp socket or emergency battery (1h/3h).

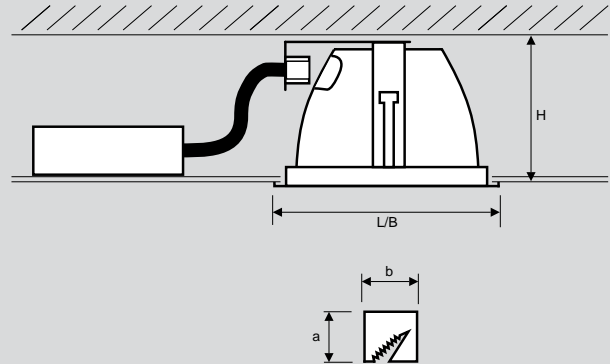
Installation:

Individual mounting in cut ceiling apertures. Tool-free fastening with spring steel bracket.

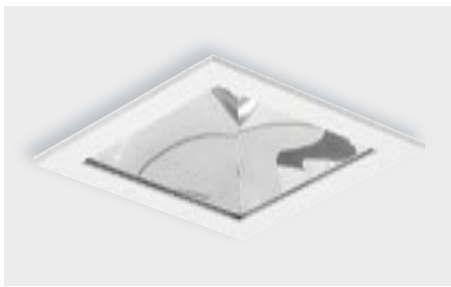
Accessories:

Auxiliary mounting plate for panelled ceilings (MP80).

DN 80

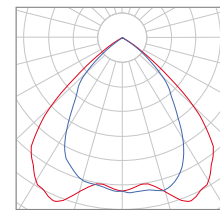


DN 80 EVG



DN 80

- high-gloss aluminium metal reflector
- suitable for office workplaces, schools, public buildings, corridors, foyers or private areas
- direct light beam
- premium-quality powder-coated sheet steel luminaire, signal white (RAL 9003)
- individual mounting in cut ceiling apertures; tool-free fastening with spring steel bracket



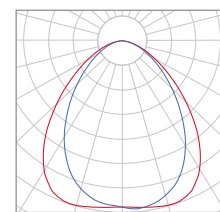
Model	Lamp	Version	AG	Dimensions in mm					Article number
				Length	Width	Height	a	b	
DN 80 1x18	TC-DEL	G24q-2	I*	226	226	130	215	215	2621106
DN 80 1x26	TC-DEL	G24q-3	I*	226	226	130	215	215	2621116
DN 80 1x32	TC-TEL	GX24q-3	II	270	270	165	257	257	2621104
DN 80 2x18	TC-DEL	G24q-2	I	226	226	130	215	215	2621114
DN 80 2x18	TC-DEL	G24q-2	II	270	270	165	257	257	2621108
DN 80 2x26	TC-DEL	G24q-3	II	270	270	165	257	257	2621110
DN 80 2x32	TC-TEL	GX24q-3	II	270	270	165	257	257	2621112

* Also available in Assembly Group II



DN 84

- matt aluminium metal reflector with satined glass cover
- suitable for office workplaces, schools, public buildings, corridors, foyers or private areas
- direct light beam
- premium-quality powder-coated sheet steel luminaire, signal white (RAL 9003)
- individual mounting in cut ceiling apertures; tool-free fastening with spring steel bracket



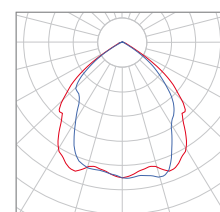
Model	Lamp	Version	AG	Dimensions in mm					Article number
				Length	Width	Height	a	b	
DN 84 1x18	TC-DEL	G24q-2	I*	226	226	130	215	215	2621118
DN 84 1x26	TC-DEL	G24q-3	I*	226	226	130	215	215	2621126
DN 84 1x32	TC-TEL	GX24q-3	II	270	270	165	257	257	2621124
DN 84 2x18	TC-DEL	G24q-2	I	226	226	130	215	215	2621134
DN 84 2x18	TC-DEL	G24q-2	II	270	270	165	257	257	2621128
DN 84 2x26	TC-DEL	G24q-3	II	270	270	165	257	257	2621130
DN 84 2x32	TC-TEL	GX24q-3	II	270	270	165	257	257	2621132

* Also available in Assembly Group II



DN 87

- high-gloss polished aluminium reflector with integrated anti-glare cross baffle
- suitable for office workplaces, schools, public buildings, corridors, foyers or private areas
- direct light beam
- premium-quality powder-coated sheet steel luminaire, signal white (RAL 9003)
- individual mounting in cut ceiling apertures; tool-free fastening with spring steel bracket



Model	Lamp	Version	AG	Dimensions in mm					Article number
				Length	Width	Height	a	b	
DN 87 1x18	TC-DEL	G24q-2	I*	226	226	130	215	215	2621140
DN 87 1x26	TC-DEL	G24q-3	I*	226	226	130	215	215	2621142
DN 87 1x32	TC-TEL	GX24q-3	II	270	270	165	257	257	2621144
DN 87 2x18	TC-DEL	G24q-2	I	226	226	130	215	215	2621146
DN 87 2x18	TC-DEL	G24q-2	II	270	270	165	257	257	2621196
DN 87 2x26	TC-DEL	G24q-3	II	270	270	165	257	257	2621148
DN 87 2x32	TC-TEL	GX24q-3	II	270	270	165	257	257	2621150

* Also available in Assembly Group II

EVG: electronic ballast; VVG: electromagnetic ballast

Project solution

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting /
louver luminaires

Luminaires for
sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix





Spotlights

Architectural lighting

Wherever light features are to be emphasised, spotlights are the right choice. They emphasise the important and stress the relevant.

Spotlights

SL100-E LED

Luminaire:
White cast aluminium.

Optics:

Metal reflector made of aluminium.
Removable protective glass with bayonet ring.
Direct light distribution 39° or 60°.
Colour rendering index 80+ or 98 CRI.
Optimised for the Xicato LED module in terms of lighting technology.
Suitable for shop lighting, in foyers or anywhere light features are to be emphasised.

Electrical equipment:

3-pin connecting terminal.
External electronic operating device.
Special versions available, e.g. adjustable phase control, DALI.
Safety lighting versions available with emergency battery 3h.

Installation:

Individual mounting in cut ceiling apertures.

Special feature:

Emergency light supply 1/3 h as accessory.

SL110-E LED

Luminaire:

White cast aluminium.
28° pivotable, 355° turnable.

Optics:

Metal reflector made of aluminium.
Removable protective glass with bayonet ring.
Direct light distribution 20° or 40°.
Colour rendering index 80+ or 98 CRI.
Optimised for the Xicato LED module in terms of lighting technology.
Suitable for shop lighting, in foyers or anywhere light features are to be emphasised.

Electrical equipment:

3-pin connecting terminal.
External electronic operating device.
Special versions available, e.g. adjustable phase control, DALI.
Safety lighting versions available with emergency battery 3h.

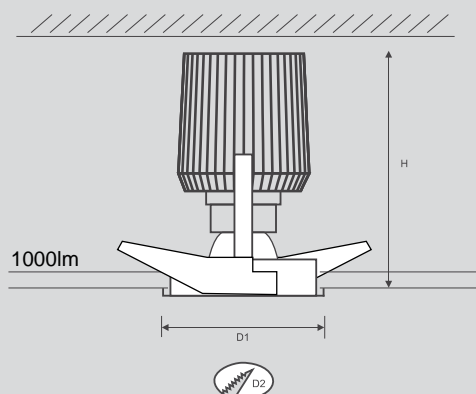
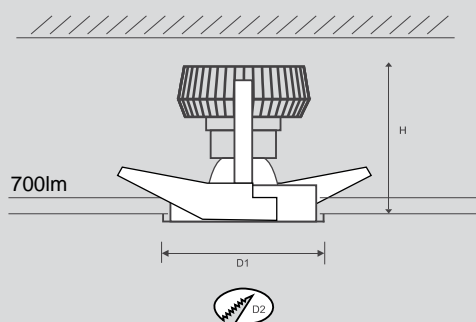
Installation:

Individual mounting in cut ceiling apertures.

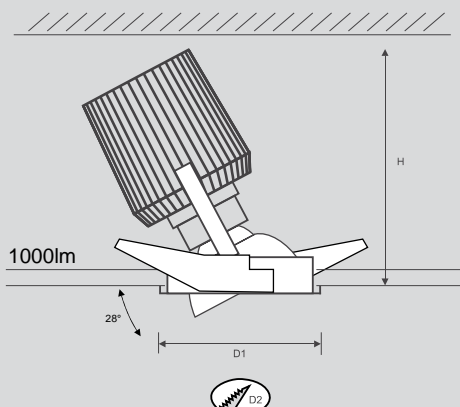
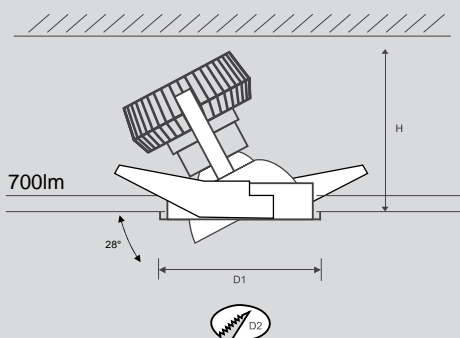
Emergency light supply unit



SL 100-E LED



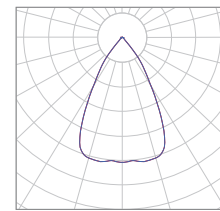
SL 110-E LED





SL100-E LED

- metal reflector made of aluminium, removable protective glass with bayonet ring
- suitable for shop lighting, in foyers or anywhere light features are to be emphasised
- direct light beam (39° or 60°)
- white cast aluminium luminaire
- individual mounting in cut ceiling apertures
- emergency light supply 1/3 h as accessory

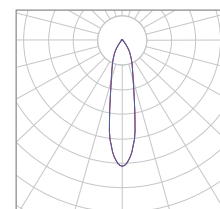


Model	LED	Light colour k	Luminous flux lm	Colour rendering index CRI	Beam angle	Dimensions in mm			Article number
						D1	H1	D2	
SL100-E LED 39° 700/930	Xicato	3000	700	98	39°	108	115	95	2621152
SL100-E LED 39° 700/940	Xicato	4000	700	98	39°	108	115	95	2621154
SL100-E LED 60° 700/930	Xicato	3000	700	98	60°	108	115	95	2621156
SL100-E LED 60° 700/940	Xicato	4000	1000	98	60°	108	115	95	2621158
SL100-E LED 39° 1000/830	Xicato	3000	1000	80+	39°	108	150	95	2621160
SL100-E LED 39° 1000/840	Xicato	4000	1000	80+	39°	108	150	95	2621162
SL100-E LED 60° 1000/830	Xicato	3000	1000	80+	60°	108	150	95	2621164
SL100-E LED 60° 1000/840	Xicato	4000	1000	80+	60°	108	150	95	2621166
SL100-E LED 39° IP54 1000/840	Xicato	4000	1000	80+	39°	108	150	95	2621168
SL100-E LED 60° IP54 1000/840	Xicato	4000	1000	80+	60°	108	150	95	2621170



SL110-E LED

- metal reflector made of aluminium, removable protective glass with bayonet ring
- suitable for shop lighting, in foyers or anywhere light features are to be emphasised
- direct light beam (20° or 40°)
- white cast aluminium luminaire, 28° pivotable, 355° turnable
- individual mounting in cut ceiling apertures



Model	LED	CCT* k	Luminous flux lm	Colour rendering index CRI	Beam angle	Dimensions in mm			Article number
						D1	H1	D2	
SL110-E LED 20° 700/930	Xicato	3000	700	98	20°	108	115	95	2621172
SL110-E LED 20° 700/940	Xicato	4000	700	98	20°	108	115	95	2621174
SL110-E LED 40° 700/930	Xicato	3000	700	98	40°	108	115	95	2621176
SL110-E LED 40° 700/940	Xicato	4000	700	98	40°	108	115	95	2621178
SL110-E LED 20° 1000/830	Xicato	3000	1000	80+	20°	108	150	95	2621180
SL110-E LED 20° 1000/840	Xicato	4000	1000	80+	20°	108	150	95	2621182
SL110-E LED 40° 1000/830	Xicato	3000	1000	80+	40°	108	150	95	2621184
SL110-E LED 40° 1000/840	Xicato	4000	1000	80+	40°	108	150	95	2621186

*Correlated colour temperature

Spotlights

Spotlight with the latest LED technology for 3-phase power rail. Especially suitable for museums and galleries, because there is no UV light present there.

SL100-S LED

Luminaire:

Sheet steel cylinder chrome matt.

Reflector:

Faceted aluminium reflector.

Direct light distribution, beam angle 24° or 42°.

Colour rendering index 80+ or 98 CRI.

Optimised for the Xicato LED module in terms of lighting technology.

Suitable for shop lighting, in foyers or anywhere light features are to be emphasised.

Electrical equipment:

Adaptor for 3-phase power rails.

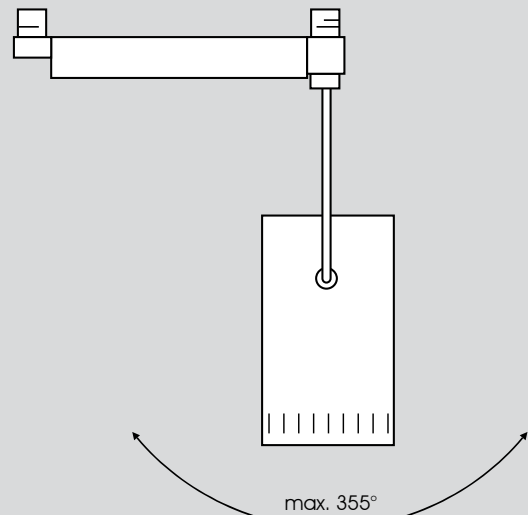
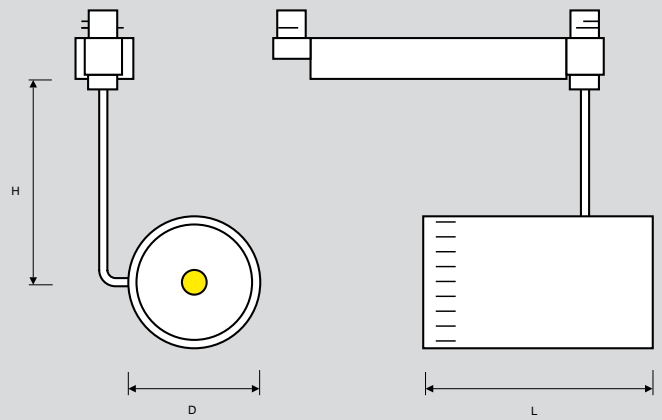
Electronic capacitor.

Installation:

A 3-phase power rail.



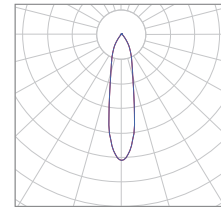
SL 100-S LED





SL100-S LED

- sheet steel cylinder, chrome, matt
- faceted aluminium reflector
- direct light distribution, beam angle 24° or 42°
- colour rendering index 80+ or 98 CRI
- for 3-phase power rail
- suitable as shop lighting, in foyers or anywhere light features are to be emphasised



Model	LED	Colour rendering index	CCT* k	Luminous flux lm	Beam angle	Dimensions in mm			Article number
						D	L	H	
SL100-S LED 24° 700/930	Xicato	98	3000	700	24°	84	145	115	2621188
SL100-S LED 24° 700/940	Xicato	98	4000	700	24°	84	145	115	2621190
SL100-S LED 42° 700/930	Xicato	98	3000	700	42°	84	145	115	2621192
SL100-S LED 42° 700/940	Xicato	98	4000	700	42°	84	145	115	2621194
SL100-S LED 24° 1000/830	Xicato	80+	3000	1000	24°	84	145	115	2621198
SL100-S LED 24° 1000/840	Xicato	80+	4000	1000	24°	84	145	115	2621200
SL100-S LED 42° 1000/830	Xicato	80+	3000	1000	42°	84	145	115	2621202
SL100-S LED 42° 1000/840	Xicato	80+	4000	1000	42°	84	145	115	2621204

*Correlated colour temperature

Recessed spotlight for shop lighting

SL 10 E, SL 11 E

Turnable and pivotable recessed spotlight for special light emphasis. These lights place spotlights or really illuminate highlights, when used for shop lighting, for example.

Luminaire:

White cast aluminium.
45° pivotable, 360° turnable.

Optics:

Metal reflector made of aluminium.
Removable protective glass with bayonet ring.
Direct light distribution. Optimised for CDM-T in terms of lighting technology.
Suitable for shop lighting, in foyers or anywhere light features are to be emphasised.

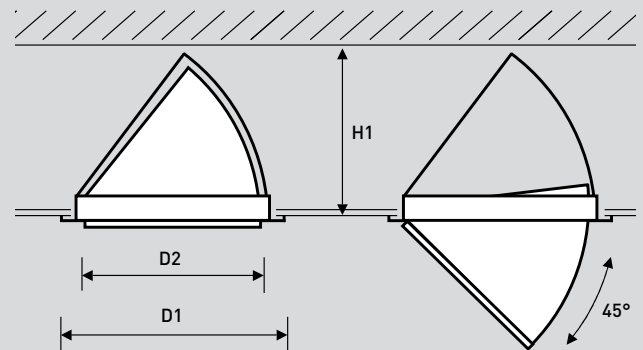
Electrical equipment:

3-pin connecting terminal.
Electronic ballast (EVG) as accessory.

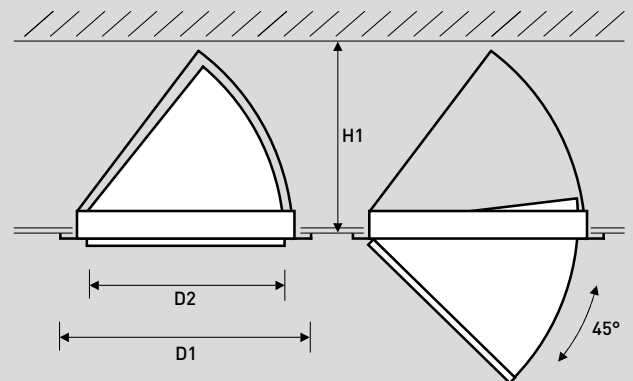
Installation:

Individual mounting in cut ceiling apertures.

SL 10 E



SL 11 E

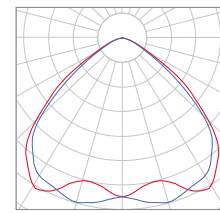


Recessed spotlight for shop lighting



SL 10 E

- 45° pivotable, 360° turnable
- removable protective glass with bayonet ring
- as shop lighting, in foyers or anywhere light features are to be emphasised
- light distribution: flood

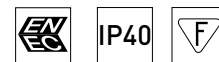
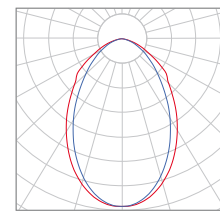


Model	Lamp	Version	Dimensions in mm				Article number
			D1	D2	H	D3	
SL 10-E 1x35/70/150	HIT	G12	190	165	160	175	2621050



SL 11 E

- 45° pivotable, 360° turnable
- removable protective glass with bayonet ring
- can be used as shop lighting, in foyers or anywhere light features are to be emphasised
- light distribution: spot



Model	Lamp	Version	Dimensions in mm				Article number
			D1	D2	H	D3	
SL 11-E 1x70	HIT-DE	RX7s	245	220	200	230	2621040
SL 11-E 1x150	HIT-DE	RX7s	245	220	200	230	2621042

Accessories



Electric units for SL 10 / 11

- electronic ballast

Model	Description	Article number
HID-PV C 035 I CDM	EVG including ignition cable	1486267
HID-PV C 070 I CDM	EVG including ignition cable	1486249
HID-PV C 150 I CDM	EVG including ignition cable	1486254

Spotlight

SL 30 E, SL 31 E, SL 32 E

Luminaire:

White cast aluminium.
60° pivotable, 350° turnable.

Optics:

Metal reflector made of aluminium.
Removable protective glass with bayonet ring.
Direct light distribution flood.
Spot reflectors as accessories.
Optimised for the CDM-TC in terms of lighting technology.
Suitable for shop lighting, in foyers or anywhere light features are to be emphasised.

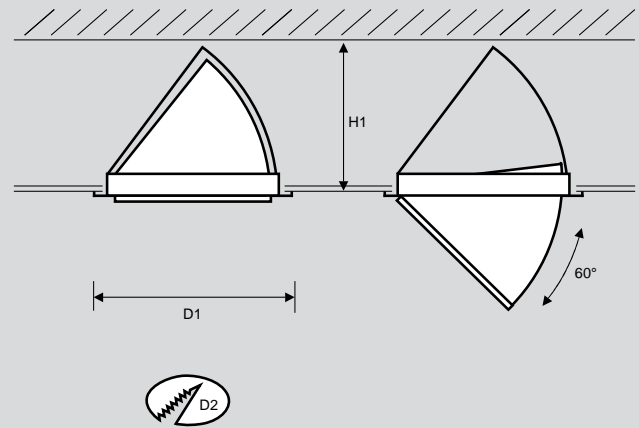
Electrical equipment:

3-pin connecting terminal.
Electronic ballast (EVG) as accessory.

Installation:

Individual mounting in cut ceiling apertures.

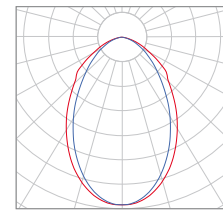
SL 30 / 31 / 32- E





SL 30 E, SL 31 E, SL 32 E

- metal reflector made of aluminium, removable protective glass with bayonet ring
- suitable for shop lighting, in foyers or anywhere light features are to be emphasised
- direct flood
- white cast aluminium luminaire, 60° pivotable, 355° turnable
- individual mounting in cut ceiling apertures



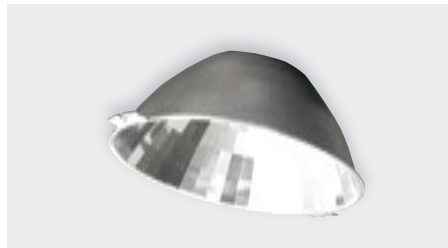
Model	Lamp	Version	Dimensions in mm			Article number
			D1	H1	H1	
SL 30-E flood 1x35	HIT-TC-CE	G8,5	126	100	110	1420000
SL 31-E flood 1x35/70	HIT-TC-CE	G8,5	152	125	138	1420002
SL 32-E flood 1x35/70/150	HIT	G12	185	145	171	1420004

Accessories



Electric units for SL 10 / 11

- electronic ballast

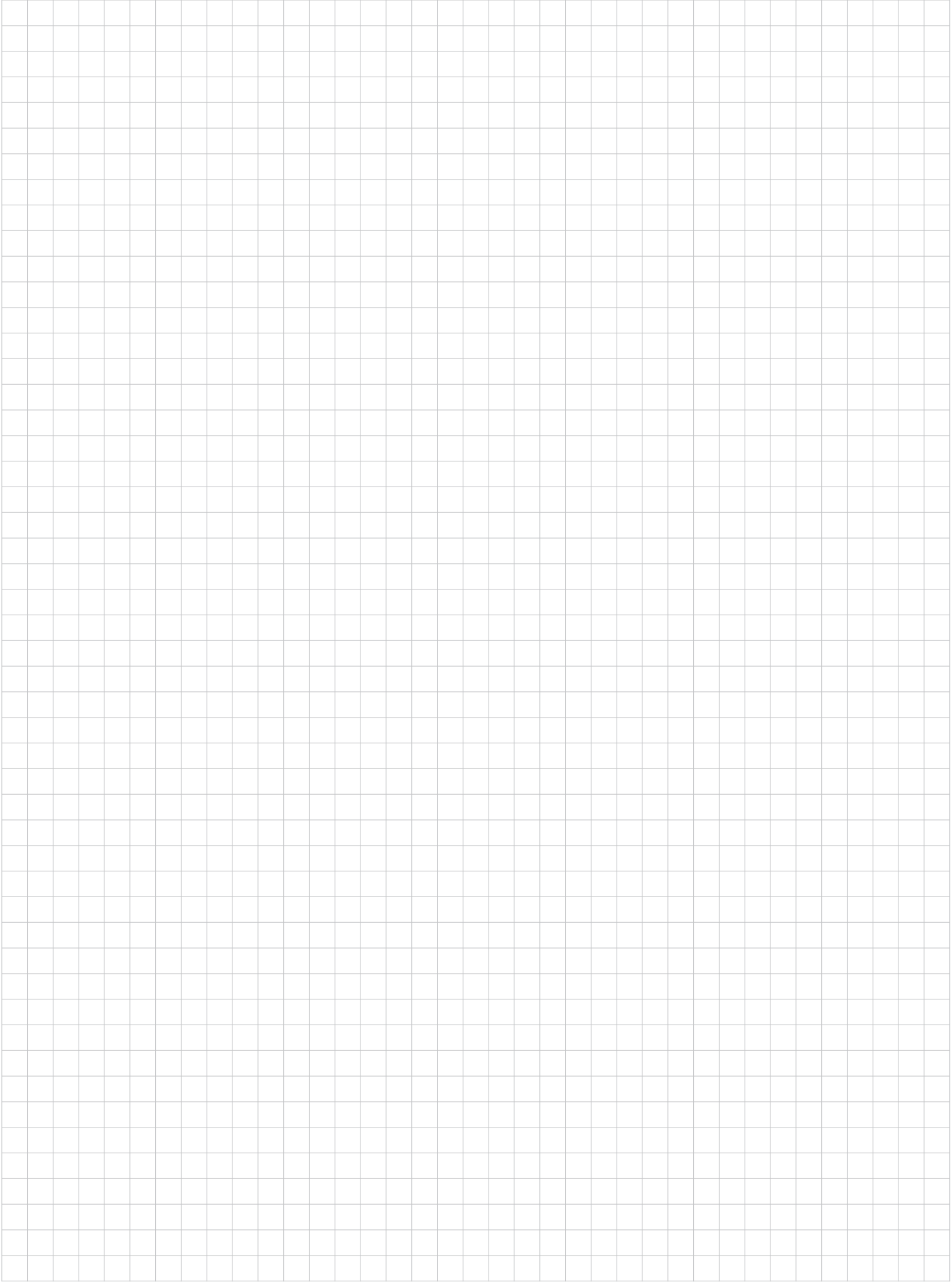


SR 30 / 31 / 32

- spot reflector

Model	Description	Article number
SR 30	Upgradable spot reflector for SL30-E	1420010
SR 31	Upgradable spot reflector for SL31-E	1420012
SR 32	Upgradable spot reflector for SL32-E	1420014
HID-PV C 035 I CDM	EVG including ignition cable	1486267
HID-PV C 070 I CDM	EVG including ignition cable	1486249
HID-PV C 150 I CDM	EVG including ignition cable	1486254

- Architectural lighting
- Coved and illuminated ceiling lighting
- General lighting
- Office lighting /
louver luminaires
- Luminaires for
sports facilities
- Industrial lighting
- Damp-proof lights
- Outdoor lighting
- Appendix





Ceiling lights / Mounted downlights

Architectural lighting

Compact lights made of high-quality materials for discreet lighting from above.

Reserved in both shape and design, these lights are suitable for office workplaces, corridors, foyers, sales rooms or private areas.

LED Ceiling light

DA 100 LED

Luminaire:

Premium quality galvanised sheet steel in connection with anodised aluminium cooling profile.
White housing similar to RAL 9016 or silver similar to RAL 9006.

Optics:

High-gloss aluminium reflector.
Open or with different decorative plates that can be inserted or placed in a frontal position.
Direct light distribution. Optimised for the LED module in terms of lighting technology.
Very high efficiency.
Suitable for offices, schools or public buildings.

Electrical equipment:

3-pin quick plug terminal,
dimmable with trailing edge dimmer.

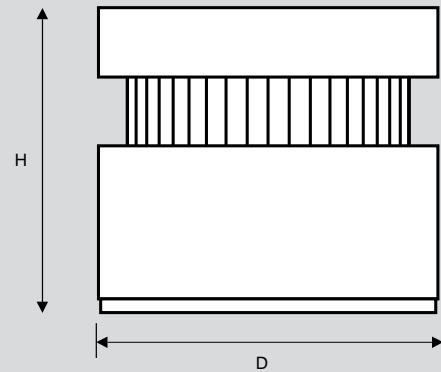
Installation:

Directly on the ceiling.

Special features:

The LED module can be exchanged tool-free due to the bayonet socket.

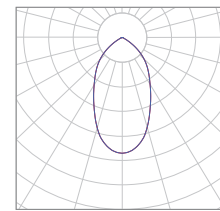
DA 100 LED





DA 100 LED

- high-gloss aluminium reflector
- suitable for office workplaces, schools or public buildings
- direct light beam
- premium-quality galvanised sheet steel luminaire in connection with anodised aluminium cooling profiles
- white (similar to RAL 9016) or silver (similar to RAL 9006) housing
- mounted directly on the ceiling



Model	Lamp	CCT* k	Luminous flux lm	Reflector	Dimensions in mm		Article number
					D	H	
DA 100 LED ws 1040/827	LED Fortimo	2700	1040	high-gloss	147	130	2500510
DA 100 LED ws 1100/830	LED Fortimo	3000	1100	high-gloss	147	130	2500512
DA 100 LED ws 1100/840	LED Fortimo	4000	1100	high-gloss	147	130	2500514
DA 100 LED si 1040/827	LED Fortimo	2700	1040	high-gloss	147	130	2500516
DA 100 LED si 1100/830	LED Fortimo	3000	1100	v	147	130	2500518
DA 100 LED si 1100/840	LED Fortimo	4000	1100	high-gloss	147	130	2500520

*Correlated colour temperature

Accessories



DV 104 + DR 104

- decorative ring with internal satined glass plate IP44 for the DN100 series



DV 108 + DR 108

- decorative ring with frontally positioned, partially satined decorative glass plate for the DN100 series

Model	Description	Article number
DV 104 + DR 104 ws	Decorative ring with internal satined glass plate IP44 for the DN100 series, for any exchange required in the future	1500230
DV 108 + DR 108 ws	Decorative ring with frontally positioned, partially satined decorative glass plate for the DN100 series, for any exchange required in the future	1500232
DV 104 + DR 104 si	Decorative ring with internal satined glass plate IP44 for the DN100 series, for any exchange required in the future	1500234
DV 108 + DR 108 si	Decorative ring with frontally positioned, partially satined decorative glass plate for the DN100 series, for any exchange required in the future	1500236

Mounted light

DA 30 W

**Mounted light with compact construction.
Premium-quality galvanised sheet steel body.**

Luminaire:

Premium quality galvanised sheet steel, white aluminium coated similar to RAL 9006 or white similar to RAL 9010.

Optics:

Satinated acrylic glass cover.
Direct light distribution. Additional indirect ceiling illumination.
Optimised for ring-shaped T5-R fluorescent bulbs in terms of lighting technology and shape.
Suitable for office workplaces, schools, public buildings, corridors, foyers or private areas.

Electrical equipment:

Quick plug terminal, electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Installation:

Ceiling mounting.

DA 30 MP

Luminaire:

Premium quality galvanised sheet steel, white aluminium powder-coated similar to RAL 9006 or white similar to RAL 9010.

Optics:

Covering with microprisms.
Direct light distribution. Additional indirect ceiling illumination.
Optimised for ring-shaped T5-R fluorescent bulbs in terms of lighting technology and shape.
Suitable for office workplaces, schools, public buildings, corridors, foyers or private areas.

Electrical equipment:

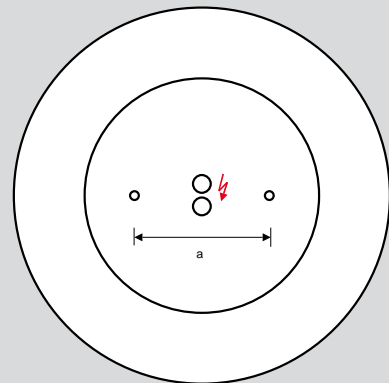
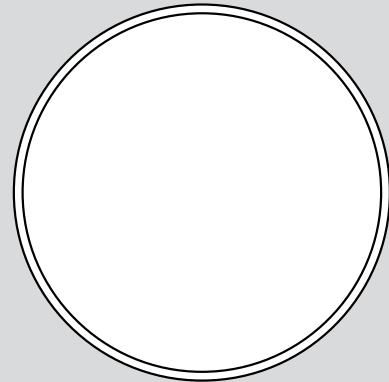
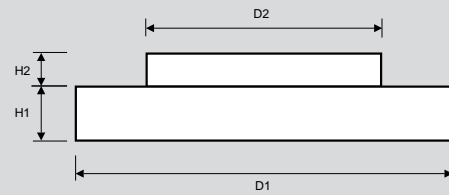
Quick plug terminal, electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Installation:

Ceiling mounting.



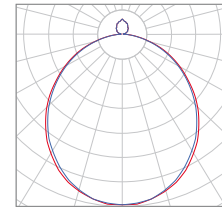
DA 30





DA 30 W

- premium quality galvanised sheet steel, white aluminium coated (similar to RAL 9006) or white (similar to RAL 9010)
- satined acrylic glass cover
- coded ceiling clearance
- suitable for schools, public buildings, corridors, foyers or private areas

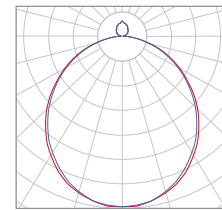


Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			D1	D2	H1	H2	a		
DA 30W ws 1x40	T5-R	2GX13	425	265	60	37	150	2501016	
DA 30W ws 1x55	T5-R	2GX13	425	265	60	37	150	2501018	
DA 30W ws 1x22+40	T5-R	2GX13	425	265	60	37	150	2501020	
DA 30W si 1x40	T5-R	2GX13	425	265	60	37	150	2501000	
DA 30W si 1x55	T5-R	2GX13	425	265	60	37	150	2501002	
DA 30W si 1x22+40	T5-R	2GX13	425	265	60	37	150	2501022	



DA 30 MP

- premium quality galvanised sheet steel, white aluminium coated (similar to RAL 9006) or white (similar to RAL 9010)
- covering with microprisms
- coded ceiling clearance
- suitable for schools, public buildings, corridors, foyers or private areas



Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			D1	D2	H1	H2	a		
DA 30MP ws 1x40	T5-R	2GX13	425	265	60	37	150	2501024	
DA 30MP ws 1x55	T5-R	2GX13	425	265	60	37	150	2501026	
DA 30MP ws 1x22+40	T5-R	2GX13	425	265	60	37	150	2501028	
DA 30MP si 1x40	T5-R	2GX13	425	265	60	37	150	2501010	
DA 30MP si 1x55	T5-R	2GX13	425	265	60	37	150	2501012	
DA 30MP si 1x22+40	T5-R	2GX13	425	265	60	37	150	2501030	

Mounted light

DA 50 W**Mounted light, round****Luminaire:**

Coated sheet steel lamp socket, white.

Optics:

Opal diffuser, frosted acrylic glass.

Direct light distribution.

Optimised for T5-R lamps in terms of lighting technology.

Electrical equipment:

Electronic ballast (EVG).

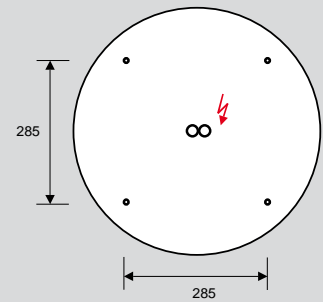
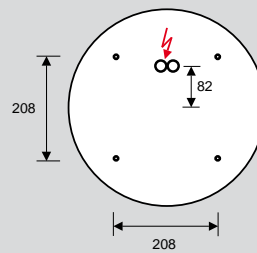
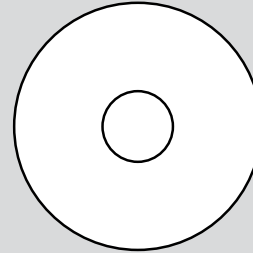
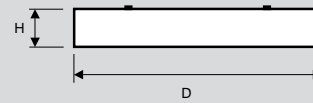
Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Emergency lighting component can be integrated.

Installation:

Ceiling or wall mounting.

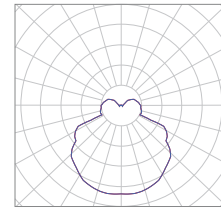
DA 50 W





DA 50 W

- opal diffuser, frosted acrylic glass
- suitable for general lighting
- direct light beam
- white, powder coated sheet steel luminaire
- can be installed directly on a wall or ceiling (also with wire suspension)



Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			D	Height	a		
DA 50W si 1x40	T5-R	2GX13	390	75	208	2,1	2821250
DA 50W si 1x55	T5-R	2GX13	390	75	208	2,1	2821252
DA 50W si 1x22+1x40	T5-R	2GX13	390	75	208	2,1	2821254
DA 50W si 1x60	T5-R	2GX13	490	75	285	3	2821256
DA 50W si 1x40+1x60	T5-R	2GX13	490	75	285	3	2821258

Accessories



S50 Set

- wire suspension kit

Model	Description	Article number
S50 Set	Wire suspension kit for DA50W, 3 wires	2821260
S50 Set dimm	Wire suspension kit for DA50W, dimmable, 5 wires	2821262

Mounted light

DA 60, DA 64

Mounted light with compact construction.
Premium-quality galvanised sheet steel body.

Luminaire:

Premium quality galvanised sheet steel, signal white, powder coated (RAL 9003).

Optics:

High-gloss aluminium metal reflector.
 Open or with satined glass plate.
 Direct light distribution.
 Optimised for ring-shaped TC-DEL (or TC-TEL) or TC-D (or TC-T) in terms of lighting technology and shape.
 Suitable for schools, public buildings, corridors, foyers or private areas.

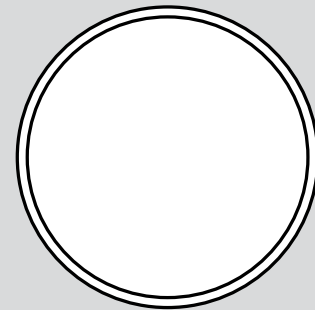
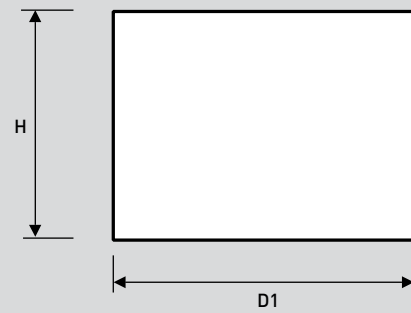
Electrical equipment:

Quick plug terminal, electronic ballast (EVG) or electromegnetic ballast (VVG).
 Special versions available, e.g. adjustable EVG 1-10 V, DALI.

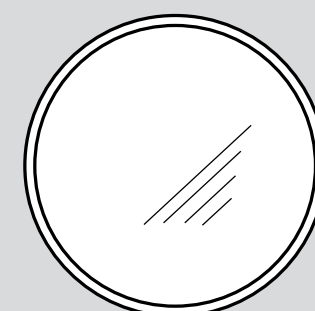
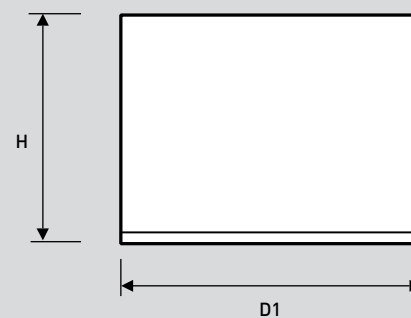
Installation:

Ceiling mounting.

DA 60



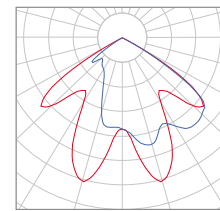
DA 64





DA 60

- high-gloss aluminium reflector
- suitable for schools, public buildings, corridors, foyers or private areas

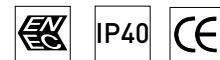
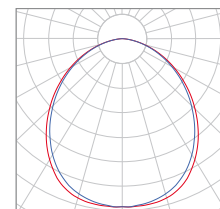


Model	Lamp	Version	Dimensions in mm		Article number
			D1	H	
DA 60 1x13	TC-DEL	G24q-1	230	175	2620250
DA 60 1x18	TC-DEL	G24q-2	230	175	2620252
DA 60 1x26	TC-TEL	GX24q-3	230	175	2620258
DA 60 2x13	TC-DEL	G24q-1	230	175	2620254
DA 60 2x18	TC-DEL	G24q-2	230	175	2620256
DA 60 2x26	TC-TEL	GX24q-3	230	175	2620257
DA 60 1x13 WVG	TC-D	G24d-1	230	175	1620250
DA 60 1x18 WVG	TC-D	G24d-2	230	175	1620252
DA 60 1x26 WVG	TC-T	G24d-3	230	175	1620258
DA 60 2x13 WVG	TC-D	G24d-1	230	175	1620254
DA 60 2x18 WVG	TC-D	G24d-2	230	175	1620256



DA 64

- high-gloss aluminium metal reflector
- flush satined glass plate
- suitable for schools, public buildings, corridors, foyers or private areas



Model	Lamp	Version	Dimensions in mm		Article number
			D1	H	
DA 64 1x13	TC-DEL	G24q-1	230	175	2620260
DA 64 1x18	TC-DEL	G24q-2	230	175	2620262
DA 64 1x26	TC-TEL	GX24q-3	230	175	2620267
DA 64 2x13	TC-DEL	G24q-1	230	175	2620264
DA 64 2x18	TC-DEL	G24q-2	230	175	2620266
DA 64 2x26	TC-TEL	GX24q-3	230	175	2620268
DA 64 1x13 WVG	TC-D	G24d-1	230	175	1620260
DA 64 1x18 WVG	TC-D	G24d-2	230	175	1620262
DA 64 1x26 WVG	TC-T	G24d-3	230	175	1620267
DA 64 2x13 WVG	TC-D	G24d-1	230	175	1620264
DA 64 2x18 WVG	TC-D	G24d-2	230	175	1620266

Mounted light

DA 67, DA 68

Compact construction mounted light.
Premium quality galvanised sheet steel fixture.

Luminaire:

Premium quality galvanised sheet steel, signal white, powder coated (RAL 9003).

Optics:

Parabolic outer and inner ring reflectors, transverse lamellae with three-dimensionally shaped lateral surfaces.

7-cell ring louver or different decorative plates to be positioned frontally. Direct light distribution.

Optimised for TC-DEL (or TC-TEL) and TC-D (or TC-T) in terms of lighting technology and shape.

Suitable for office workplaces, schools, public buildings, corridors, foyers or private areas.

Electrical equipment:

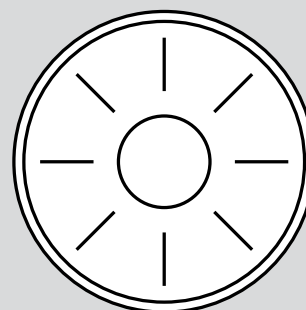
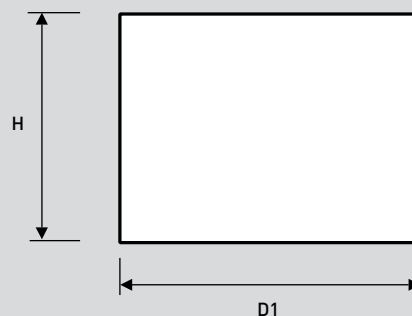
Quick plug terminal, electronic ballast (EVG) or electromegnetic ballast (VVG).

Special versions available, e.g. adjustable EVG 1-10 V, DALI.

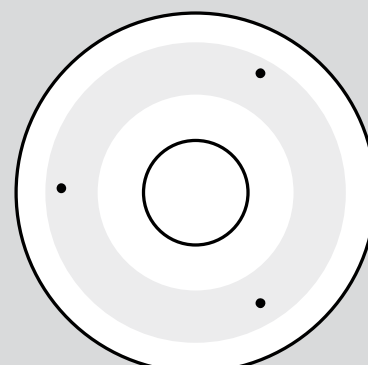
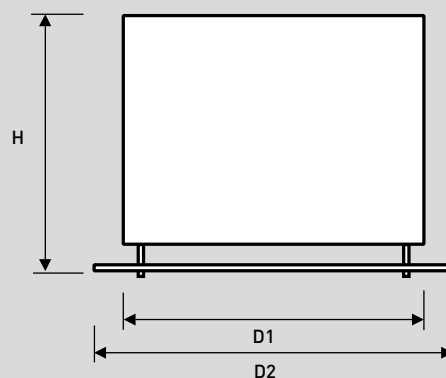
Installation:

Ceiling mounting.

DA 67



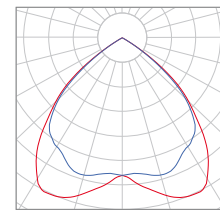
DA 68





DA 67

- parabolic outer and inner ring reflectors
- transverse lamellae with three-dimensionally shaped lateral surfaces
- premium quality aluminium metal reflector
- 7-cell ring louver
- suitable for office workplaces, schools, public buildings, corridors, foyers or private areas

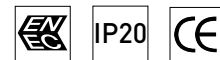
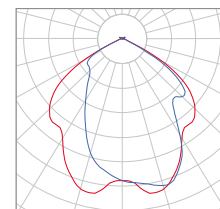


Model	Lamp	Version	Dimensions in mm		Article number
			D1	H	
DA 67 1x13	TC-DEL	G24q-1	230	175	2620270
DA 67 1x18	TC-DEL	G24q-2	230	175	2620272
DA 67 1x26	TC-TEL	GX24q-3	230	175	2620278
DA 67 2x13	TC-DEL	G24q-1	230	175	2620274
DA 67 2x18	TC-DEL	G24q-2	230	175	2620276
DA 67 2x26	TC-TEL	GX24q-3	230	175	2620277
DA 67 1x13 WG	TC-D	G24d-1	230	175	1620270
DA 67 1x18 WG	TC-D	G24d-2	230	175	1620272
DA 67 1x26 WG	TC-T	G24d-3	230	175	1620278
DA 67 2x13 WG	TC-D	G24d-1	230	175	1620274
DA 67 2x18 WG	TC-D	G24d-2	230	175	1620276



DA 68

- high-gloss aluminium metal reflector
- frontally positioned decorative glass plate, open in the middle
- suitable for schools, public buildings, corridors, foyers or private areas



Model	Lamp	Version	Dimensions in mm			Article number
			D1	D2	H	
DA 68 1x13	TC-DEL	G24q-1	230	275	175	2620280
DA 68 1x18	TC-DEL	G24q-2	230	275	175	2620282
DA 68 1x26	TC-TEL	GX24q-3	230	275	175	2620288
DA 68 2x13	TC-DEL	G24q-1	230	275	175	2620284
DA 68 2x18	TC-DEL	G24q-2	230	275	175	2620286
DA 68 2x26	TC-TEL	GX24q-3	230	275	175	2620287
DA 68 1x13 WG	TC-D	G24d-1	230	275	175	1620280
DA 68 1x18 WG	TC-D	G24d-2	230	275	175	1620282
DA 68 1x26 WG	TC-T	G24d-3	230	275	175	1620288
DA 68 2x13 WG	TC-D	G24d-1	230	275	175	1620284
DA 68 2x18 WG	TC-D	G24d-2	230	275	175	1620286

Project solution

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting /
louver luminaires

Luminaires for
sports facilities

Industrial lighting

Damp-proof lights

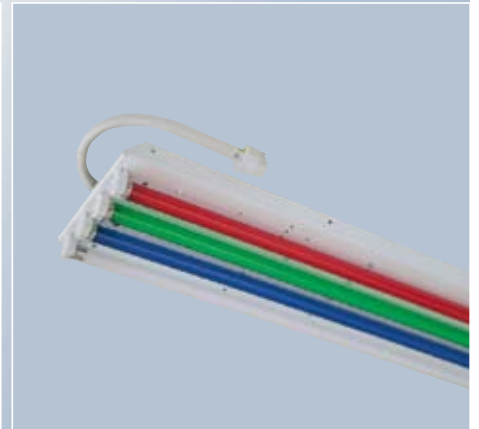
Outdoor lighting

Appendix



Mounted downlights from KANDEM guarantee tasteful lighting in general areas.





System lights

Coved and illuminated ceiling lighting

System lights for illuminated ceilings, coved lighting and displays

Light design and presentation of the room using light are the main characteristics of modern architecture. Ideal for the homogenous illumination of illuminated ceilings, coved lighting and displays.

System lights for illuminated ceilings, coved lighting and displays

System lights for use in illuminated ceilings, coved lighting and displays for the homogenous illumination and presentation of modern rooms. Even, shadow-free illumination is achieved by diagonal, offset mounting. In this way dark areas at transitional points are avoided.

LD 10

Luminaire:

Premium quality galvanised sheet steel, matt white, powder coated (similar to RAL 9016).

Construction height of 70 mm including lamp.

Optimised for T8 or TC-L fluorescent bulbs in terms of lighting technology.

Electrical equipment:

Electronic ballast (EVG), adjustable EVG 1-10 V. Special versions available, e.g. DALI, DSI.

Feed-through wiring 5 x 1.5 mm² plus 2 x 0.75 mm² for EVG control cable dimmable.

Length compensation of approx. 50 - 130 mm.

7-pin plug connection, capacity 16 A/500 V.

Connecting cable leads out of the light, preset phase tap (L1, 2 or 3) marked on the outside and can be exchanged internally.

Installation:

Quick assembly without opening the light.

Diagonally offset or joint to joint as strip light.

LD 110

Luminaire:

Premium quality galvanised sheet steel, matt white, powder coated (similar to RAL 9016).

Low construction height of 54 mm including lamp.

Optimised for T5 fluorescent bulbs in terms of lighting technology.

Electrical equipment:

Electronic ballast (EVG), adjustable EVG 1-10 V. DALI, special versions available, e.g. DSI.

Feed-through wiring 5 x 1.5 mm² plus 2 x 0.75 mm² for EVG control cable, dimmable.

Length compensation of approx. 50 - 110 mm.

7-pole plug connection, capacity 16 A/500V.

Connecting cable leads out of the light, preset phase tap (L1, 2 or 3) marked on the outside and can be exchanged internally.

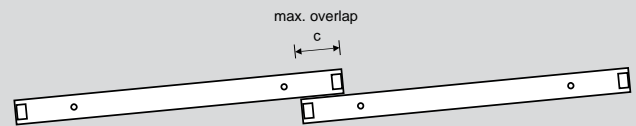
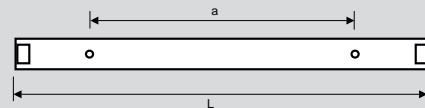
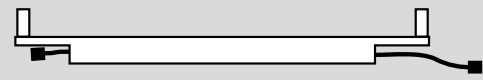
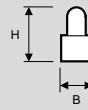
Installation:

Quick assembly without opening the light.

Diagonally offset or joint to joint as strip light.



LD 10

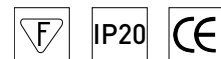
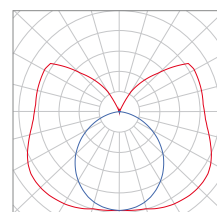


System lights for illuminated ceilings, coved lighting and displays



LD 10

- matt-white coated (similar to RAL 9016) surface mounted luminaire for T8 or TC-L fluorescent bulbs
- construction height of 70 mm including lamp
- for the homogenous illumination of a room with illuminated ceilings, coved lighting and displays

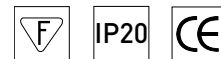
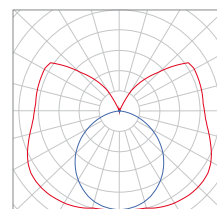


Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	c	
LD 10 1x18	T8	G13	642	54	70	547	50-130	2500000
LD 10 1x36	T8	G13	1252	54	70	1157	50-130	2500002
LD 10 1x58	T8	G13	1552	54	70	1457	50-130	2500004
LD 10 1x55 TC-L	TC-L	2G11	575	54	70	495	50-130	2500006
LD 10 1x18 DIM 1-10V	T8	G13	642	54	70	547	50-130	3500000
LD 10 1x36 DIM 1-10V	T8	G13	1252	54	70	1157	50-130	3500002
LD 10 1x58 DIM 1-10V	T8	G13	1552	54	70	1457	50-130	3500004
LD 10 1x55 TC-L DIM 1-10V	TC-L	2G11	575	54	70	495	50-130	3500006



LD 110

- matt-white coated (similar to RAL 9016) surface mounted luminaire for T5 fluorescent bulbs
- construction height of 58 mm including lamp
- for the homogenous illumination of a room with illuminated ceilings, coved lighting and displays
- special fastener makes changing the illuminant easier e.g. with light covers or profiles



Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	c	
LD 110 1x14/24	T5	G5	574	36	54	400	50-110	2500310
LD 110 1x21/39	T5	G5	874	36	54	500	50-110	2500312
LD 110 1x28/54	T5	G5	1174	36	54	700	50-110	2500314
LD 110 1x35/49	T5	G5	1474	36	54	1000	50-110	2500316
LD 110 1x80	T5	G5	1474	36	54	1000	50-110	2500318
LD 110 1x14/24 DIM 1-10V	T5	G5	574	36	54	400	50-110	3500310
LD 110 1x21/39 DIM 1-10V	T5	G5	874	36	54	500	50-110	3500312
LD 110 1x28/54 DIM 1-10V	T5	G5	1174	36	54	700	50-110	3500314
LD 110 1x35/49 DIM 1-10V	T5	G5	1474	36	54	1000	50-110	3500316
LD 110 1x80 DIM 1-10V	T5	G5	1474	36	54	1000	50-110	3500318
LD 110 1x14/24 DALI	T5	G5	574	36	54	400	50-110	5500310
LD 110 1x21/39 DALI	T5	G5	874	36	54	500	50-110	5500312
LD 110 1x28/54 DALI	T5	G5	1174	36	54	700	50-110	5500314
LD 110 1x35/49 DALI	T5	G5	1474	36	54	1000	50-110	5500316
LD 110 1x80 DALI	T5	G5	1474	36	54	1000	50-110	5500318

Accessories



AK 10

- 7-pole power cord, with one-sided coupling
- length 1000 mm (other lengths on request)



VK 10

- 7-pole connecting cable, for the tool-free connecting of light strips
- length 1000 mm (other lengths on request)

Model	Description	Article number
AK 10-7	7-pole power cord, with one-sided coupling, length 1000 mm (other lengths on request)	1500102
VK 10-7	7-pole connecting cable, for the tool-free connecting of light strips, length 1000 mm (other lengths on request)	1500112

System lights for illuminated ceilings, coved lighting and displays

Ultra-flat system lights for use in illuminated ceilings, coved lighting and displays for homogenous illumination and presentation of modern rooms.

The ultra-flat construction with the arrangement of the lamps near the electronic circuits/electrics means they can be recessed in ceilings and coves with a very low height.

Even, shadow-free illumination is achieved by diagonally offset mounting. In this way dark areas at transitional points are avoided.

LD 20

Luminaire:

Aluminium, matt-white coated (similar to RAL 9016).

Very low construction height of 43 mm including lamp.

Optimised for T8 fluorescent bulbs in terms of lighting technology.

Electrical equipment:

Electronic ballast (EVG), adjustable EVG 1-10 V. Special versions available, e.g. DALI, DSI.

Feed-through wiring 5 x 1.5 mm² plus 2 x 0.75 mm² for EVG control cable, dimmable.

Length compensation up to 76 mm.

7-pole plug connection, capacity 16 A/500 V.

Connecting cable leads out of the light, preset phase tap (L1, 2 or 3) marked on the outside and can be exchanged internally.

Installation:

Quick assembly without opening the light.

Diagonally offset or joint to joint as strip light.

LD 120

Luminaire:

Aluminium, matt white, powder coated (similar to RAL 9016).

Very low construction height of 37 mm including lamp.

Optimised for T5 fluorescent bulbs in terms of lighting technology.

Electrical equipment:

Electronic ballast (EVG), adjustable EVG 1-10 V. DALI, special versions available, e.g. DSI.

Feed-through wiring 5 x 1.5 mm² plus 2 x 0.75 mm² for EVG control cable, dimmable.

Length compensation up to 76 mm.

7-pole plug connection, capacity 16 A/500 V.

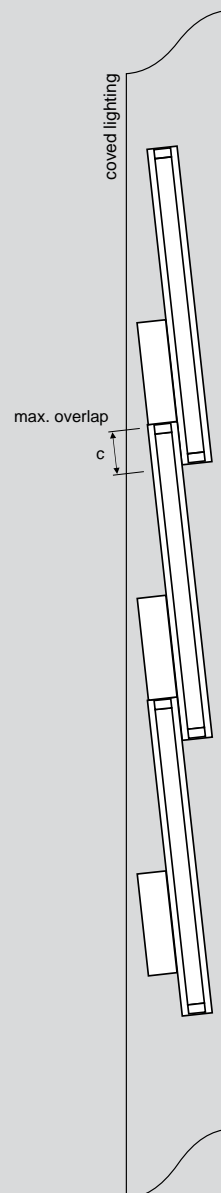
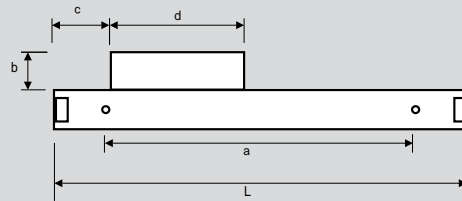
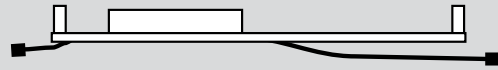
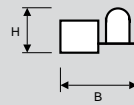
Connecting cable leads out of the light, preset phase tap (L1, 2 or 3) marked on the outside and can be exchanged internally.

Installation:

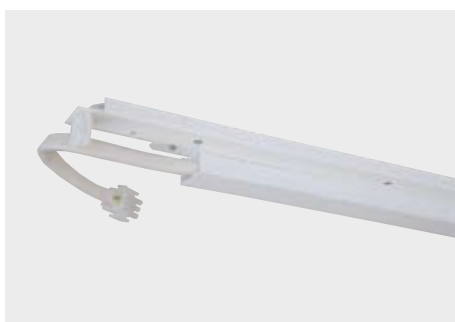
Quick assembly without opening the light.

Diagonally offset or joint to joint as strip light.

LD 20

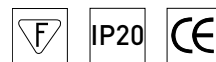
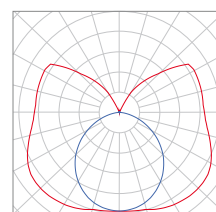


System lights for illuminated ceilings, coved lighting and displays



LD 20

- matt-white coated (similar to RAL 9016) surface mounted luminaire for T8 fluorescent bulbs
- construction height of 43 mm including lamp
- for the homogenous illumination of a room with illuminated ceilings, coved lighting and displays

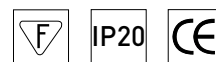
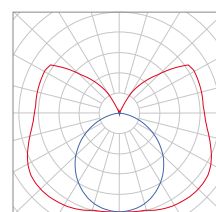


Model	Lamp	Version	Dimensions in mm								Article number
			Length	Width	Height	a	b	c	d		
LD 20 FLAT 1x18	T8	G13	616	70	43	400	35	76	450	2500330	
LD 20 FLAT 1x36	T8	G13	1225	70	43	700	35	76	450	2500332	
LD 20 FLAT 1x58	T8	G13	1525	70	43	1000	35	76	450	2500334	
LD 20 FLAT 1x18 DIM 1-10V	T8	G13	616	70	43	400	35	76	450	3500330	
LD 20 FLAT 1x36 DIM 1-10V	T8	G13	1225	70	43	700	35	76	450	3500332	
LD 20 FLAT 1x58 DIM 1-10V	T8	G13	1525	70	43	1000	35	76	450	3500334	



LD 120

- matt-white coated (similar to RAL 9016) surface mounted luminaire for T5 fluorescent bulbs
- construction height of 37 mm including lamp
- for the homogenous illumination of a room with illuminated ceilings, coved lighting and displays



Model	Lamp	Version	Dimensions in mm								Article number
			Length	Width	Height	a	b	c	d		
LD 120 FLAT 1x14	T5	G5	574	70	37	400	35	76	450	2500350	
LD 120 FLAT 1x21	T5	G5	874	70	37	500	35	76	450	2500352	
LD 120 FLAT 1x28	T5	G5	1174	70	37	700	35	76	450	2500354	
LD 120 FLAT 1x35	T5	G5	1474	70	37	1000	35	76	450	2500356	
LD 120 FLAT 1x14 DIM 1-10V	T5	G5	574	70	37	400	35	76	450	3500350	
LD 120 FLAT 1x21 DIM 1-10V	T5	G5	874	70	37	500	35	76	450	3500352	
LD 120 FLAT 1x28 DIM 1-10V	T5	G5	1174	70	37	700	35	76	450	3500354	
LD 120 FLAT 1x35 DIM 1-10V	T5	G5	1474	70	37	1000	35	76	450	3500356	
LD 120 FLAT 1x14 DALI	T5	G5	574	70	37	400	35	76	450	5500350	
LD 120 FLAT 1x21 DALI	T5	G5	874	70	37	500	35	76	450	5500352	
LD 120 FLAT 1x28 DALI	T5	G5	1174	70	37	700	35	76	450	5500354	
LD 120 FLAT 1x35 DALI	T5	G5	1474	70	37	1000	35	76	450	5500356	

Accessories



AK 10

- 7-pole power cord, with one-sided coupling
- length 1000 mm (other lengths on request)



VK 10

- 7-pole connecting cable, for the tool-free connecting of light strips
- length 1000 mm (other lengths on request)

Model	Description	Article number
AK 10-7	7-pole power cord, with one-sided coupling, length 1000 mm (other lengths on request)	1500102
VK 10-7	7-pole connecting cable, for the tool-free connecting of light strips, length 1000 mm (other lengths on request)	1500112

System lights for illuminated ceilings,
coved lighting and displays

LD 140

System light

Luminaire:

Aluminium, matt white, powder coated (similar to RAL 9016).
Very low construction height of 50 mm including lamp.
Optimised for T5 fluorescent bulbs in terms of lighting technology.

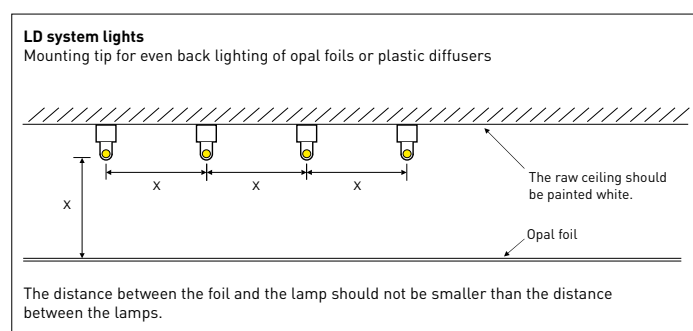
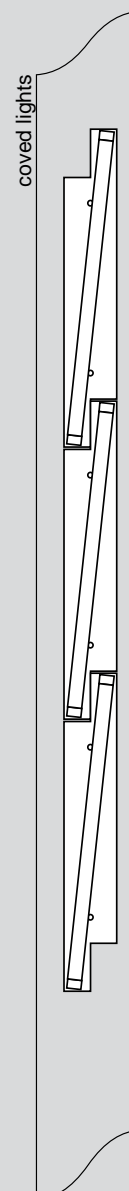
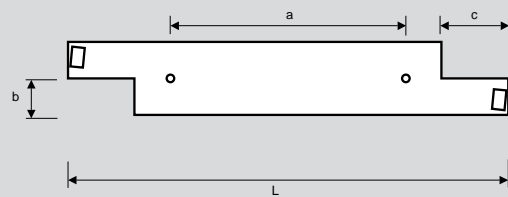
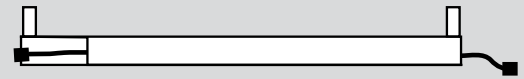
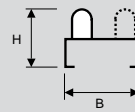
Electrical equipment:

Electronic ballast (EVG), adjustable EVG 1-10 V. DALI, special versions available, e.g. DSI.
Feed-through wiring $5 \times 1.5 \text{ mm}^2$ plus $2 \times 0.75 \text{ mm}^2$ for EVG control cable dimmable.
Length compensation up to 80 mm.
7-pole plug connection, capacity 16 A/500 V.
Connecting cable leads out of the light, preset phase tap (L1, 2 or 3) marked on the outside and can be exchanged internally.

Installation:

Quick assembly without opening the light.

LD 140

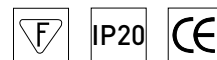
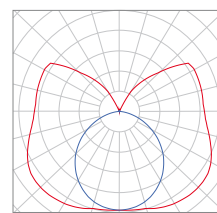


System lights for illuminated ceilings, coved lighting and displays



LD 140

- matt white, powder coated aluminium (similar to RAL 9016)
- construction height of 50 mm, including the lamp
- optimised for T5 fluorescent bulbs in terms of lighting technology
- mounting without opening the light, going through the light with 2 screws



Model	Lamp	Version	Dimensions in mm						Article number
			Length	Width	Height	a	b	c	
LD 140 1x14/24	T5	G5	588	61	50	405	35	80	2500360
LD 140 1x21/39	T5	G5	888	61	50	655	35	80	2500362
LD 140 1x28/54	T5	G5	1188	61	50	615	35	80	2500364
LD 140 1x35/49/80	T5	G5	1488	61	50	615	35	80	2500366
LD 140 1x14 DIM 1-10V	T5	G5	588	61	50	405	35	80	3500360
LD 140 1x21 DIM 1-10V	T5	G5	888	61	50	655	35	80	3500362
LD 140 1x28 DIM 1-10V	T5	G5	1188	61	50	615	35	80	3500364
LD 140 1x35 DIM 1-10V	T5	G5	1488	61	50	615	35	80	3500366
LD 140 1x14 DALI	T5	G5	588	61	50	405	35	80	5500360
LD 140 1x21 DALI	T5	G5	888	61	50	655	35	80	5500362
LD 140 1x28 DALI	T5	G5	1188	61	50	615	35	80	5500364
LD 140 1x35 DALI	T5	G5	1488	61	50	615	35	80	5500366

Accessories



AK 10

- 7-pole power cord, with one-sided coupling,
- length 1000 mm (other lengths on request)



VK 10

- 7-pole connecting cable, for the tool-free connecting of light strips,
- length 1000 mm (other lengths on request)

Model	Description	Article number
AK 10-7	7-pole power cord, with one-sided coupling, length 1000 mm (other lengths on request)	1500102
VK 10-7	7-pole connecting cable, for the tool-free connecting of light strips, length 1000 mm (other lengths on request)	1500112

Coloured system lights for illuminated ceilings, coved lighting and displays

Flat system light for use in illuminated ceilings, coved lighting and displays for presenting room atmospheres with coloured light. Coloured light can generate attention or induce relaxation. Every colour nuance can be generated by combining fluorescent bulbs with the primary colours of red, green and blue with different dimming values. The lights are prepared for these controls.

LD 30

Luminaire:

Premium quality galvanised sheet steel, matt white, powder coated (similar to RAL 9016).
 Low construction height of 55 mm including lamp.
 Optimised for T8 fluorescent bulbs in terms of lighting technology.
 To be used for RGB applications with one red, one green and one blue fluorescent bulb. Also with a white fluorescent bulb with RGBW.
 Lamps are not included in the delivery.

Electrical equipment:

Electronic DALI ballast.
 Feed-through wiring 5 x 1.5 mm² plus 2 x 0.75 mm² for control cable.
 7-pole plug connection. (L1,L2,L3,N,PE, DA+,DA-)
 Capacity 16 A/500V.
 Connecting cable leads out of the light.

Installation:

Quick assembly without opening the light.

LD 130

Luminaire:

Premium quality galvanised sheet steel, matt white, powder coated (similar to RAL 9016).
 Low construction height of 52 mm including lamp.
 Optimised for T5 fluorescent bulbs in terms of lighting technology.
 To be used for RGB applications with one red, one green and one blue fluorescent bulb. Also with a white fluorescent bulb with RGBW.
 Lamps are not included in the delivery.

Electrical equipment:

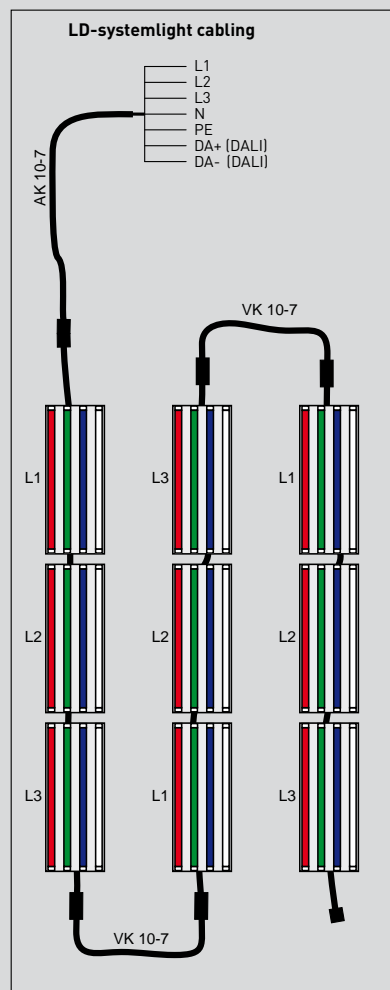
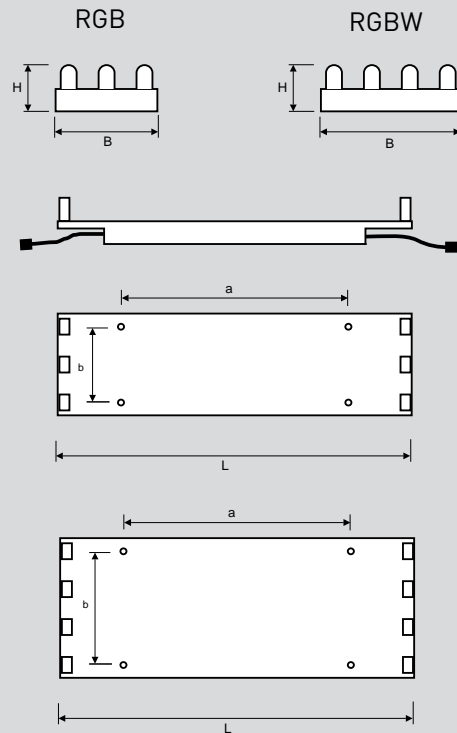
Electronic DALI ballast.
 Feed-through wiring 5 x 1.5 mm² plus 2 x 0.75 mm² for control cable.
 7-pole plug connection. (L1, L2, L3, N, PE, DA+,DA-)
 Capacity 16 A/500V.
 Connecting cable leads out of the light.

Installation:

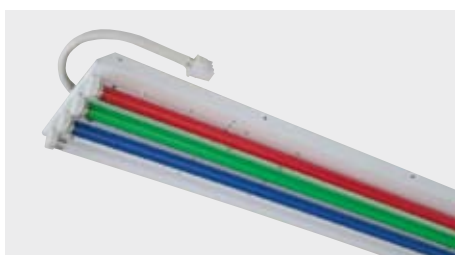
Quick assembly without opening the light.



LD 30

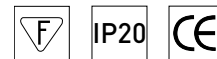
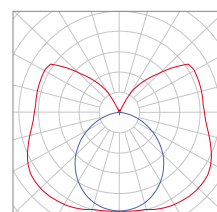


Coloured system lights for illuminated ceilings, coved lighting and displays

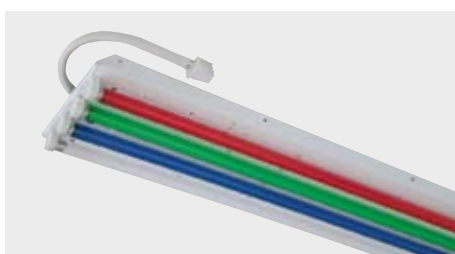


LD 30

- matt-white coated (similar to RAL 9016) surface mounted luminaire for T8 fluorescent bulbs
- construction height of 55 mm including lamp
- for presenting room atmospheres with coloured light from illuminated ceilings, coved lighting and displays

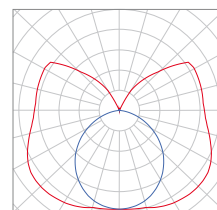


Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
LD 30 3x18 RGB DALI	T8	G13	616	125	55	400	80	5500370
LD 30 3x36 RGB DALI	T8	G13	1225	125	55	700	80	5500372
LD 30 3x58 RGB DALI	T8	G13	1525	125	55	1000	80	5500374
LD 30 4x18 RGBW DALI	T8	G13	616	165	55	400	120	5500376
LD 30 4x36 RGBW DALI	T8	G13	1225	165	55	700	120	5500378
LD 30 4x58 RGBW DALI	T8	G13	1525	165	55	1000	120	5500380



LD 130

- matt-white coated (similar to RAL 9016) surface mounted luminaire for T5 fluorescent bulbs
- construction height of 52 mm including lamp
- for presenting room atmospheres with coloured light from illuminated ceilings, coved lighting and displays



Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
LD 130 3x14/24 RGB DALI	T5	G5	572	105	52	400	60	5500382
LD 130 3x21/39 RGB DALI	T5	G5	872	105	52	500	60	5500384
LD 130 3x28/54 RGB DALI	T5	G5	1172	105	52	700	60	5500386
LD 130 3x35/49 RGB DALI	T5	G5	1472	105	52	1000	60	5500388
LD 130 3x80 RGB DALI	T5	G5	1472	105	52	1000	60	5500390
LD 130 4x14/24 RGBW DALI	T5	G5	572	145	52	400	100	5500392
LD 130 4x21/39 RGBW DALI	T5	G5	872	145	52	500	100	5500394
LD 130 4x28/54 RGBW DALI	T5	G5	1172	145	52	700	100	5500396
LD 130 4x35/49 RGBW DALI	T5	G5	1472	145	52	1000	100	5500398
LD 130 4x80 RGBW DALI	T5	G5	1472	145	52	1000	100	5500400

Accessories



AK 10

- 7-pole power cord, with one-sided coupling
- length 1000 mm (other lengths on request)



VK 10

- 7-pole connecting cable, for the tool-free connecting of light strips
- length 1000 mm (other lengths on request)



Colour tubes colour filter

- seamlessly extruded, transparently coloured polycarbonate tubes
- wall thickness of 0.7 mm
- available in all lengths for T5 and T8 lamps on request in red, green and blue

Model		Article number
AK 10-7	7-pole power cord, with one-sided coupling, length 1000 mm (other lengths on request)	1500102
VK 10-7	7-pole connecting cable, for the tool-free connecting of light strips, length 1000 mm (other lengths on request)	1500112
Colour tubes colour filter	Seamlessly extruded, transparently coloured polycarbonate tubes	on request

Light strips for illuminated ceilings,
coved lighting and displays

**Light strip system for illuminated ceilings, coved lighting and displays
and when open-distribution light sources are needed.**

SZ 10

Luminaire:

Premium quality sheet steel, white, powder coated.
Either for 1 lamp (lamp height 100 mm) or for 2 lateral lamps (lamp
height 50 mm).
Optimised for T8 fluorescent bulbs in terms of lighting technology.
Different reflectors are available for different light distributions.

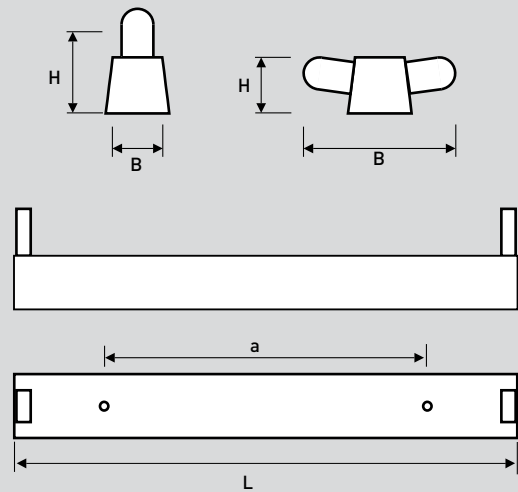
Electrical equipment:

VVG, electronic ballast (EVG). Special versions available, e.g. adjustable
EVG 1-10 V, DALI or battery buffer with 1 hour / 3 hours burning time.
3-pin quick plug terminal on the ceiling rail.
Cable entry from above or frontally.

Installation:

Ceiling, with mounting rail.

SZ 10

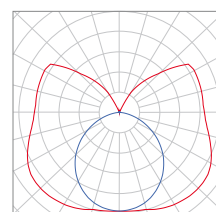


Light strips for illuminated ceilings, coved lighting and displays



SZ 10

- white, powder coated light strip for 1 or 2 T8 fluorescent bulbs
- construction height of 100 mm with one lamp or 50 mm with 2 lateral lamps
- for illuminated ceilings, coved lighting and displays as open-distribution light sources



Model	Lamp	Version	Dimensions in mm				Article number
			Length	Width	Height	a	
SZ 10 1x15 EVG	T8	G13	460	63	100	375	2520080
SZ 10 1x18 EVG	T8	G13	615	63	100	500	2520082
SZ 10 1x30 EVG	T8	G13	920	63	100	750	2520084
SZ 10 1x36 EVG	T8	G13	1225	63	100	750	2520086
SZ 10 1x36-1m EVG	T8	G13	995	63	100	750	2520088
SZ 10 1x58 EVG	T8	G13	1525	63	100	750	2520090
SZ 10 2x18 EVG	T8	G13	615	150	50	500	2520092
SZ 10 2x36 EVG	T8	G13	1225	150	50	750	2520094
SZ 10 2x36-1m EVG	T8	G13	995	150	50	750	2520096
SZ 10 2x58 EVG	T8	G13	1215	150	50	750	2520098
SZ 10 1x18 EVG DIM	T8	G13	615	63	100	500	3520082
SZ 10 1x30 EVG DIM	T8	G13	920	63	100	750	3520084
SZ 10 1x36 EVG DIM	T8	G13	1225	63	100	750	3520086
SZ 10 1x36-1m EVG DIM	T8	G13	995	63	100	750	3520088
SZ 10 1x58 EVG DIM	T8	G13	1525	63	100	750	3520090
SZ 10 2x18 EVG DIM	T8	G13	615	150	50	500	3520092
SZ 10 2x36 EVG DIM	T8	G13	1225	150	50	750	3520094
SZ 10 2x36-1m EVG DIM	T8	G13	995	150	50	750	3520096
SZ 10 2x58 EVG DIM	T8	G13	1215	150	50	750	3520098
SZ 10 1x15 WVG	T8	G13	460	63	100	375	1520080
SZ 10 1x18 WVG	T8	G13	615	63	100	500	1520082
SZ 10 1x30 WVG	T8	G13	920	63	100	750	1520084
SZ 10 1x36 WVG	T8	G13	1225	63	100	750	1520086
SZ 10 1x36-1m WVG	T8	G13	995	63	100	750	1520088
SZ 10 1x58 WVG	T8	G13	1525	63	100	750	1520090
SZ 10 2x18 WVG	T8	G13	615	150	50	500	1520092
SZ 10 2x36 WVG	T8	G13	1225	150	50	750	1520094
SZ 10 2x36-1m WVG	T8	G13	995	150	50	750	1520096
SZ 10 2x58 WVG	T8	G13	1215	150	50	750	1520098

Light strips for illuminated ceilings,
coved lighting and displays

**Light strip system for illuminated ceilings, coved lighting and displays
and when open-distribution light sources are needed.**

SZ 110 N

Luminaire:

Premium quality sheet steel, white, powder coated.
Either for 1 or 2 lamps (lamp height for both: 72 mm).
Optimised for T5 fluorescent bulbs in terms of lighting technology.
Different reflectors are available for different light distributions.

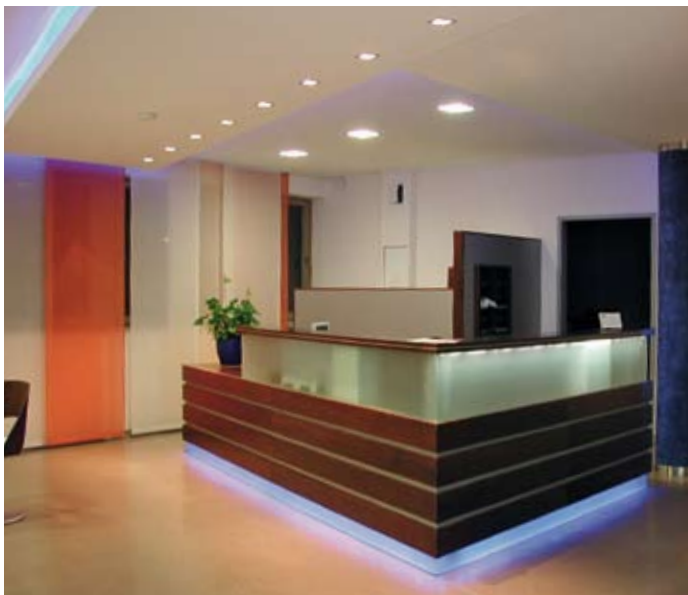
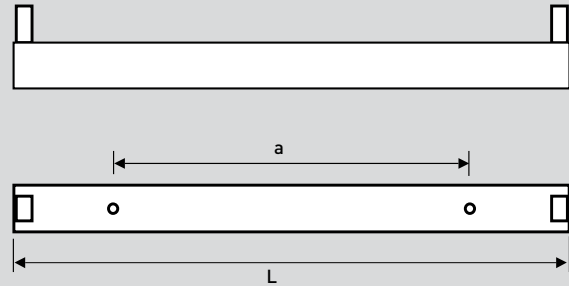
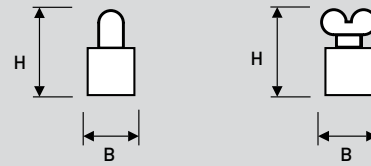
Electrical equipment:

Electronic ballast (EVG). Special versions available, e.g. adjustable EVG
1-10 V, DALI or battery buffer with 1 hour / 3 hours burning time.
3-pin quick plug terminal on the ceiling rail.
Cable entry from above or frontally.

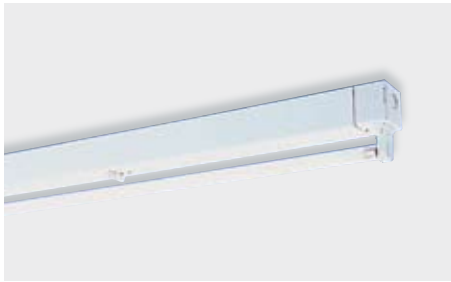
Installation:

Ceiling, with mounting rail.

SZ 110 N

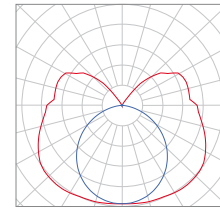


Light strips for illuminated ceilings, coved lighting and displays



SZ 110 N

- white, powder coated light strip for 1 or 2 T5 fluorescent bulbs
- construction height of 72 mm with one or two lamps
- for illuminated ceilings, coved lighting and displays as open-distribution light sources



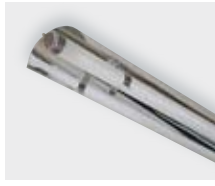
Model	Lamp	Version	Dimensions in mm				Article number
			Length	Width	Height	a	
SZ 110N 1x14 EVG	T5	G5	574	40	72	500	2520400
SZ 110N 1x21 EVG	T5	G5	874	40	72	750	2520404
SZ 110N 1x24 EVG	T5	G5	574	40	72	500	2520402
SZ 110N 1x28 EVG	T5	G5	1174	40	72	900	2520408
SZ 110N 1x35 EVG	T5	G5	1480	40	72	900	2520412
SZ 110N 1x39 EVG	T5	G5	874	40	72	750	2520406
SZ 110N 1x49 EVG	T5	G5	1480	40	72	900	2520414
SZ 110N 1x54 EVG	T5	G5	1174	40	72	900	2520410
SZ 110N 1x80 EVG	T5	G5	1480	40	72	900	2520416
SZ 110N 2x14 EVG	T5	G5	574	45	72	500	2520418
SZ 110N 2x21 EVG	T5	G5	874	45	72	750	2520422
SZ 110N 2x24 EVG	T5	G5	574	45	72	500	2520420
SZ 110N 2x28 EVG	T5	G5	1147	45	72	900	2520426
SZ 110N 2x35 EVG	T5	G5	1480	45	72	900	2520430
SZ 110N 2x39 EVG	T5	G5	874	45	72	750	2520424
SZ 110N 2x49 EVG	T5	G5	1480	45	72	900	2520432
SZ 110N 2x54 EVG	T5	G5	1147	45	72	900	2520428
SZ 110N 2x80 EVG	T5	G5	1480	45	72	900	2520434
SZ 110N 1x14 EVG DIM	T5	G5	574	40	72	500	3520400
SZ 110N 1x21 EVG DIM	T5	G5	874	40	72	750	3520404
SZ 110N 1x24 EVG DIM	T5	G5	574	40	72	500	3520402
SZ 110N 1x28 EVG DIM	T5	G5	1174	40	72	900	3520408
SZ 110N 1x35 EVG DIM	T5	G5	1480	40	72	900	3520412
SZ 110N 1x39 EVG DIM	T5	G5	874	40	72	750	3520406
SZ 110N 1x49 EVG DIM	T5	G5	1480	40	72	900	3520414
SZ 110N 1x54 EVG DIM	T5	G5	1174	40	72	900	3520410
SZ 110N 1x80 EVG DIM	T5	G5	1480	40	72	900	3520416
SZ 110N 2x14 EVG DIM	T5	G5	574	45	72	500	3520418
SZ 110N 2x21 EVG DIM	T5	G5	874	45	72	750	3520422
SZ 110N 2x24 EVG DIM	T5	G5	574	45	72	500	3520420
SZ 110N 2x28 EVG DIM	T5	G5	1147	45	72	900	3520426
SZ 110N 2x35 EVG DIM	T5	G5	1480	45	72	900	3520430
SZ 110N 2x39 EVG DIM	T5	G5	874	45	72	750	3520424
SZ 110N 2x49 EVG DIM	T5	G5	1480	45	72	900	3520432
SZ 110N 2x54 EVG DIM	T5	G5	1147	45	72	900	3520428
SZ 110N 2x80 EVG DIM	T5	G5	1480	45	72	900	3520434

Light strips for illuminated ceilings,
coved lighting and displays

Accessories

**RB 10 / RB 110**

- sheet steel reflector, white for
SZ 10 (RB 10) or SZ 110 N (RB 110)

**RS 35 / RS 135**

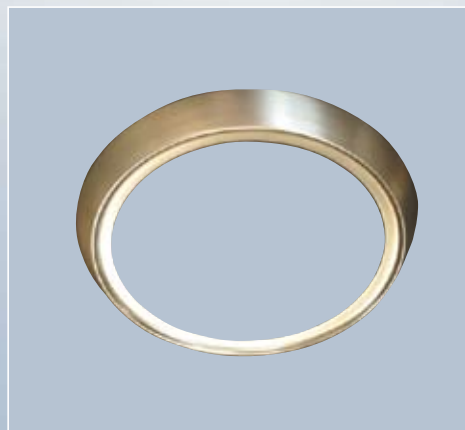
- high-gloss aluminium reflector
for SZ 10 and LD 10 (RS 35) or
SZ 110 N (RS 135)

**RS 10 K / RS 110 K**

- high-gloss plastic reflector for SZ 10
and LD 10 (RS 10 K) or SZ 110 N (RS 110 K)

Model	Dimensions in mm			Article number
	Length	Width	Height	
sheet steel reflector, white for SZ 10				
RB 10 1x36	1225	210	100	1520100
RB 10 1x58	1525	210	100	1520102
RB 10 2x36	1225	210	50	1520104
RB 10 2x58	1525	210	50	1520106
sheet steel reflector, white for SZ110N				
RB 110 14/24	580	155	55	1520160
RB 110 21/39	880	155	55	1520162
RB 110 28/54	1180	155	55	1520164
RB 110 35/49/80	1480	155	55	1520166
high-gloss aluminium reflector for SZ10, LD10				
RS 35 1x18	570	120		1160012
RS 35 1x36	1145	120		1160014
RS 35 1x58	1445	120		1160016
high-gloss aluminium reflector for SZ110N				
RS 135 1x14/24	530	60		1160017
RS 135 1x21/39	830	60		1160018
RS 135 1x28/54	1130	60		1160019
RS 135 1x35/49/80	1430	60		1160020
high-gloss plastic reflector for SZ10, LD10				
RS 10K 1x18	570	90	40	1480400
RS 10K 1x36	1180	90	40	1480402
RS 10K 1x58	1480	90	40	1480404
high-gloss plastic reflector for SZ110N				
RS 110K 1x14/24	540	90	40	1480406
RS 110K 1x21/39	840	90	40	1480408
RS 110K 1x28/54	1140	90	40	1480410
RS 110K 1x35/49/80	1440	90	40	1480412





Mounted lights for ceiling and wall

General lighting, round

Trough lights for general lighting

Nicely shaped but simple lights for wall and ceiling.
With their classical shapes, these lights are suitable for almost any ambience.

Mounted lights for ceiling and wall

These lights have simple, classical shapes and a pleasant light. Suitable for general lighting.

AW 55 G

Luminaire:

Premium-quality, mouth-blown three-layered opal glass trough, overlaid, semi-matt.
Metal fitting in white.

Electrical equipment:

5-pole connecting terminal with release button.
Electronic ballast (EVG).

Installation:

Tool-free connecting terminal 2.5 mm² for feed-through wiring.
Two cable entries.
Three-point bayonet lock for fastening down the trough.

AW 60 G

Luminaire:

Very flat premium-quality, mouth-blown three-layered opal glass trough, overlaid, semi-matt.
The glass body is finished with a clear border that creates a light circle around the light.
Metal fitting in white.

Electrical equipment:

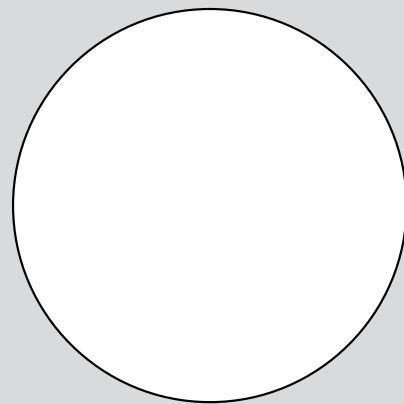
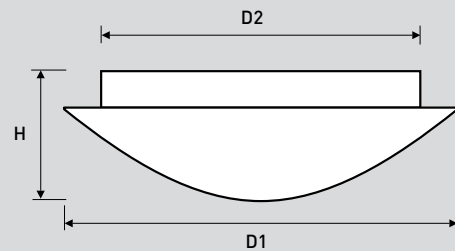
5-pole connecting terminal with release button.
Electronic ballast (EVG).

Installation:

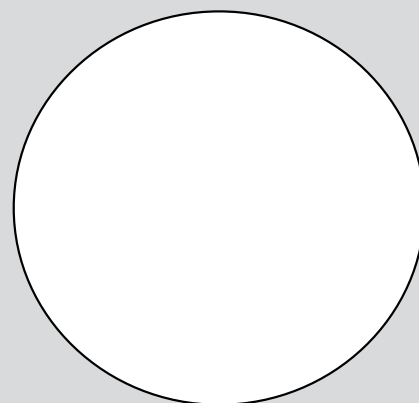
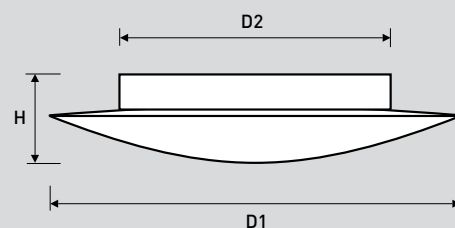
Tool-free connecting terminal 2.5 mm² for feed-through wiring.
Two cable entries.
Trough fastened down by 3 screws.



AW 55 G



AW 60 G

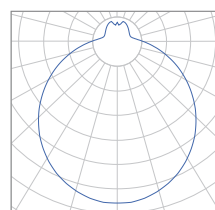


Mounted lights for ceiling and wall



AW 55 G

- premium-quality three-layered opal glass trough
- suitable for general lighting
- tool-free connecting terminal 2.5 mm² for feed-through wiring
- three-point bayonet lock for fastening down the glass



Model	Lamp	Version	AG	Dimensions in mm			Article number
				D1	D2	H1	
AW 55G 1x18 EVG	TC-DEL	G24q-2	II	300	230	100	2300118
AW 55G 1x26 EVG	TC-DEL	G24q-3	II	300	230	100	2300116
AW 55G 2x18 EVG	TC-DEL	G24q-2	III	350	310	125	2300120
AW 55G 2x26/32 EVG	TC-TEL	GX24q-3	III	350	310	125	2300100
AW 55G 2x26/32 EVG	TC-TEL	GX24q-3	IV	450	365	145	2300102
AW 55G 2x36 EVG	TC-F	2G10	IV	450	365	145	2300104
AW 55G 2x36 EVG	TC-F	2G10	V	550	365	160	2300106

Accessories AW 55 G



DR 3 chrome

- metal decorative ring
- chrome surface



DR 3 brass, matt

- metal decorative ring
- brass surface, matt



DR 3 nickel, matt

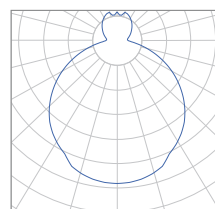
- metal decorative ring
- nickel matt surface

Model	AG	Dimensions in mm		Article number
		D1	D2	
DR3 chrome	III	400	400	1316000
DR3 brass matt	III	400	400	1316002
DR3 nickel matt	III	400	400	1316004



AW 60 G

- very flat, premium-quality three-layered opal glass trough with a clear rim
- suitable for general lighting
- tool-free connecting terminal 2.5 mm² for feed-through wiring
- trough fastened down with three screws



Detail view AW 60 G: iced rim



Model	Lamp	Version	AG	Dimensions in mm			Article number
				D1	D2	Height	
AW 60G 2x18 EVG	TC-DEL	G24q-2	III	370	310	90	2300108
AW 60G 2x26/32 EVG	TC-TEL	GX24q-3	IV	470	310	100	2300110
AW 60G 2x36 EVG	TC-F	2G10	V	570	365	110	2300112

EVG: electronic ballast; VWG: electromagnetic ballast

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting / Louver luminaires

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Mounted lights for ceiling and wall

These lights are characterised by their simple classical forms and their pleasant light. Suitable for general lighting.

AW 55 K

Luminaire:

Opal acrylic glass trough (PMMA).
Coated sheet steel lamp socket, white (similar to RAL 9016).

Electrical equipment:

5-pole connecting terminal with release button.
Electromagnetic ballast (VVG) or electronic ballast (EVG).

Installation:

Snap locks for fixing down the trough.

AW 55 PC

Impact-resistant luminaire:

Impact-resistant polycarbonate trough.
Coated sheet steel lamp socket, white (similar to RAL 9016).

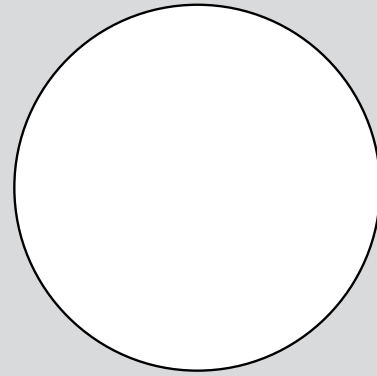
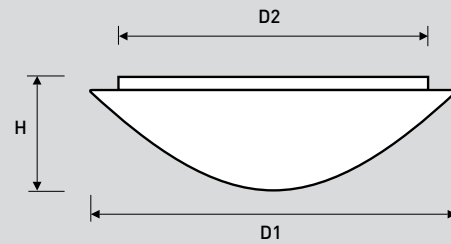
Electrical equipment:

5-pole connecting terminal with release button.
Electronic ballast (EVG).

Installation:

Snap locks for fixing down the trough.

AW 55 K

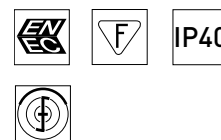
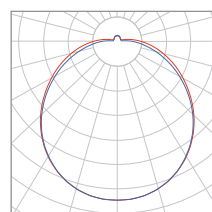


Mounted lights for ceiling and wall



AW 55 K

- opal acrylic glass trough (PMMA)
- suitable for general lighting
- 5-pole connecting terminal with release button
- snap locks for fixing down the trough

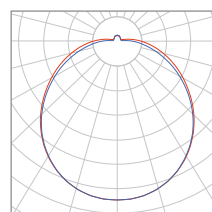


Model	Lamp	Version	AG	Dimensions in mm			Article number
				D1	D2	Height	
AW 55K 2x11 TC-SEL EVG	TC-SEL	2G7	III	375	330	125	2710201
AW 55K 2x18 TC-DEL EVG	TC-DEL	G24q-2	III	375	330	125	2710202
AW 55K 1x36 TC-F EVG	TC-F	2G10	III	375	330	125	2710204
AW 55K 2x24 TC-F EVG	TC-F	2G10	IV	480	430	150	2710206
AW 55K 2x36 TC-F EVG	TC-F	2G10	IV	480	430	150	2710208
AW 55K 1x22 + 1x40 EVG	T5-R	2GX13	IV	480	430	150	2710210
AW 55K 1x22 EVG	T5-R	2GX13	III	375	330	125	2710212
AW 55K 1x40 EVG	T5-R	2GX13	IV	480	430	150	2710214
AW 55K 2x11 TC-S VVG	TC-S	G23	III	375	330	125	1710201
AW 55K 2x18 TC-D VVG	TC-D	G24d-2	III	375	330	125	1710203
AW 55K 1x36 TC-F VVG	TC-F	2G10	III	375	330	125	1710205
AW 55K 2x24 TC-F VVG	TC-F	2G10	IV	480	430	150	1710207
AW 55K 2x36 TC-F VVG	TC-F	2G10	IV	480	430	150	1710209
AW 55K 1x60 AGL	AGL	E27	II	305	260	105	1710210
AW 55K 2x60 AGL	AGL	E27	III	375	330	125	1710200



AW 55 PC

- impact-resistant polycarbonate trough
- suitable for general lighting
- 5-pole connecting terminal with release button
- snap locks for fixing down the trough



Model	Lamp	Version	AG	Dimensions in mm			Article number
				D1	D2	Height	
AW 55PC 2x18 TC-DEL EVG	TC-DEL	G24q-2	III	375	330	125	2710224
AW 55PC 2x36 TC-F EVG	TC-F	2G10	IV	480	430	150	2710226
AW 55PC 2x60 AGL	AGL	E27	III	375	330	125	1710220

Accessories



DR 3 AW 55K

- decorative ring for AW 55 K
- available in white, silver and blue

Model	AG	Dimensions in mm		Article number
			D1	
DR3 AW 55K BLAU	III		435	1710232
DR3 AW 55K SILBER	III		435	1710230
DR3 AW 55K WEISS	III		435	1710228
DR4 AW 55K BLAU	IV		540	1710238
DR4 AW 55K SILBER	IV		540	1710236
DR4 AW 55K WEISS	IV		540	1710234

EVG: electronic ballast; VVG: electromagnetic ballast

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting / lower luminaires

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Mounted lights for ceiling and wall

Round large-area light wherever a lot of light is needed or to generate an atmosphere in a room with coloured light. Coloured light generates attention or relaxation. The combination of fluorescent bulbs with the primary colours of red, green and blue with different dimming values means almost any colour nuance can be created.

AW 55 XL

Luminaire:

Opal acrylic glass trough (PMMA).
Coated sheet steel lamp socket, white.

Electrical equipment:

5-pole connecting terminal with release button.
Electronic ballast (EVG).
RGB solutions for additive colour mixing.

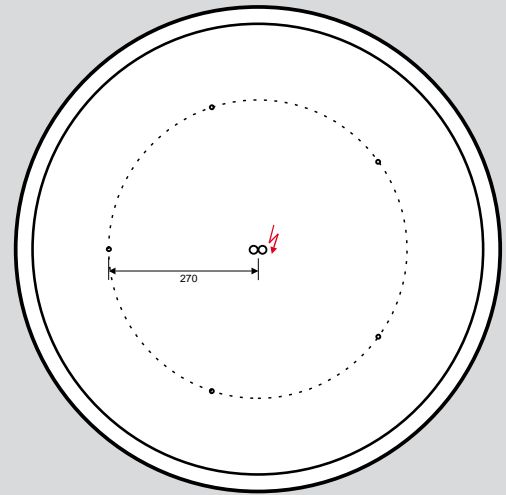
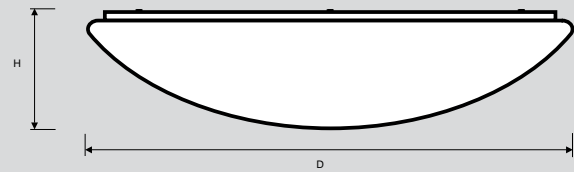
LED solutions on request.

Installation:

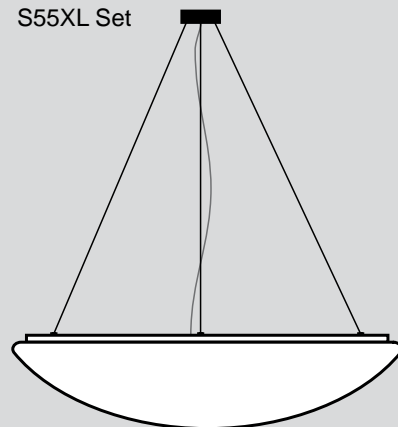
Wall or ceiling.
Plastic turning knob for fastening down the trough.

Suspension wire set as accessory.

AW 55 XL



S55XL Set

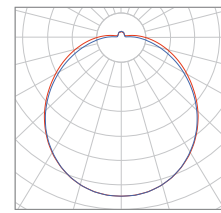


Mounted lights for ceiling and wall



AW 55 XL

- opal acrylic glass trough (PMMA)
- suitable for general lighting
- 5-pole connecting terminal with release button
- snap locks for fixing down the trough



Model	Lamp	Version	Dimensions in mm		Article number
			D1	H1	
AW 55XL 4x55	TC-L	2G11	1000	240	2420200
AW 55XL 6x55	TC-L	2G11	1000	240	2420202
AW 55XL 9x18 RGB DALI	T26	G13	1000	240	5420204
AW 55XL 9x18 RGB 1-10V	T26	G13	1000	240	3420204
AW 55XL 9x18 RGB Funk*	T26	G13	1000	240	2420204

* with integrated sequencer for automatic colour change

Accessories



CT 18

- Colour tubes colour filter

Model	Bezeichnung	Article number
S55XL Set	Suspending brackets for AW55XL, 2000 mm	1420016
Colour filter for T26 lamp		
CT 18-R	Colour Tubes / colour filter, red 18W	1486400
CT 18-G	Colour Tubes / colour filter, green 18W	1486402
CT 18-B	Colour Tubes / colour filter, blue 18W	1486404

Project solution

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting /
louver luminaires

Luminaires for
sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix





Mounted lights for ceiling and wall

General lighting, cornered

Trough lights for general lighting

Classical rectangular lights for wall and ceiling.
A standard in general lighting.

Architectural lighting

Coved and illuminated
ceiling lighting

General lighting

Office lighting /
louver luminairesLuminaires for
sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Mounted lights for ceiling and wall

**General lighting would not be the same without it:
The classical rectangular trough light.**

AP 45, AP 145

Luminaire:

Acrylic glass trough (PMMA) prismatic, octagonal.
Coated sheet steel lamp socket, white (similar to RAL 9016).

Electrical equipment:

3-pin connecting terminal.
Electromagnetic ballast (VVG), capacitor quick plug terminal, electronic ballast (EVG).

Installation:

Feed-through wiring above the light with PVC casing possible.

AW 45, AW 145

Luminaire:

Acrylic glass trough (PMMA), octagonal.
Coated sheet steel lamp socket, white (similar to RAL 9016).

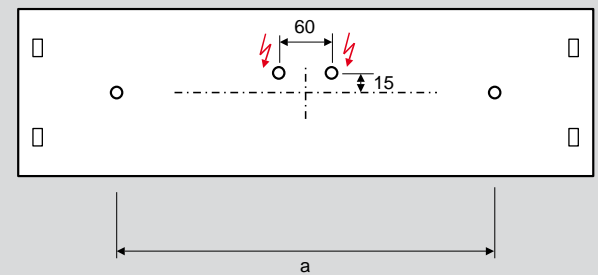
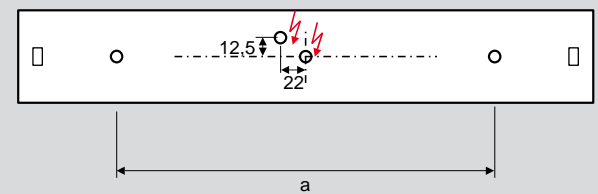
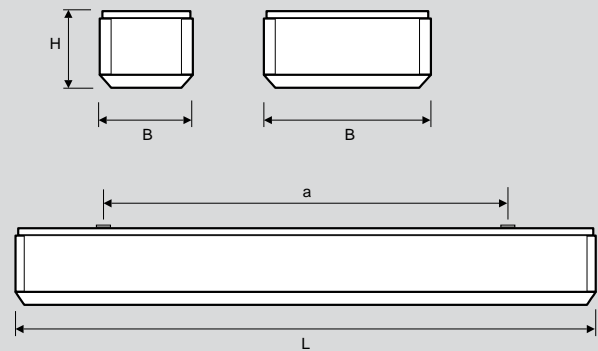
Electrical equipment:

3-pin connecting terminal.
Electromagnetic ballast (VVG), capacitor quick plug terminal, electronic ballast (EVG).

Installation:

Feed-through wiring above the light with PVC casing possible.

AW / AP 45

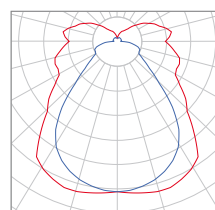


Mounted lights for ceiling and wall

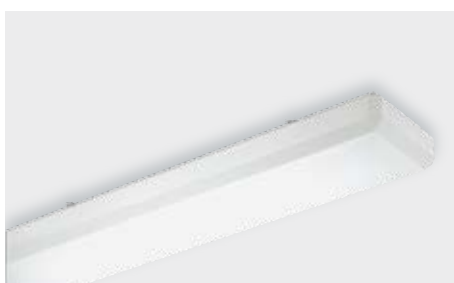


AP 45, AP 145

- acrylic glass trough (PMMA), prismatic
- suitable for general lighting
- feed-through wiring above the light with PVC casing possible

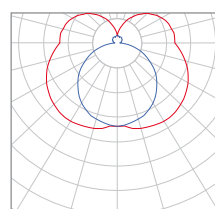


Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
AP 145 1x28/54	T5	G5	1270	106	88	900	2,30	2484456
AP 145 1x35/49	T5	G5	1570	106	88	1200	3,10	2484458
AP 145 2x28/54	T5	G5	1270	190	88	900	3,80	2484462
AP 145 2x35/49	T5	G5	1570	190	88	1200	4,90	2484464
AP 45 1x18 EVG	T8	G13	660	106	88	460	1,50	2710120
AP 45 1x36 EVG	T8	G13	1270	106	88	900	2,30	2710122
AP 45 1x58 EVG	T8	G13	1570	106	88	1200	3,10	2710124
AP 45 2x36 EVG	T8	G13	1270	190	88	900	3,80	2710128
AP 45 2x58 EVG	T8	G13	1570	190	88	1200	4,90	2710130
AP 45 1x18 VVG	T8	G13	660	106	88	460	1,80	1710120
AP 45 1x36 VVG	T8	G13	1270	106	88	900	2,60	1710122
AP 45 1x58 VVG	T8	G13	1570	106	88	1200	3,80	1710124
AP 45 2x36 VVG	T8	G13	1270	190	88	900	4,60	1710128
AP 45 2x58 VVG	T8	G13	1570	190	88	1200	6,60	1710130



AW 45, AW 145

- acrylic glass opal trough (PMMA)
- suitable for general lighting
- feed-through wiring above the light with PVC casing possible



Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
AW 145 1x28/54	T5	G5	1270	106	88	900	2,30	2484450
AW 145 1x35/49	T5	G5	1570	106	88	1200	3,10	2484454
AW 145 2x28/54	T5	G5	1270	190	88	900	3,80	2484460
AW 145 2x35/49	T5	G5	1570	190	88	1200	4,90	2484452
AW 45 1x18 EVG	T8	G13	660	106	88	460	1,50	2710100
AW 45 1x36 EVG	T8	G13	1270	106	88	900	2,30	2710102
AW 45 1x58 EVG	T8	G13	1570	106	88	1200	3,10	2710104
AW 45 2x36 EVG	T8	G13	1270	190	88	900	3,80	2710108
AW 45 2x58 EVG	T8	G13	1570	190	88	1200	4,90	2710110
AW 45 1x18 VVG	T8	G13	660	106	88	460	1,80	1710100
AW 45 1x36 VVG	T8	G13	1270	106	88	900	2,60	1710102
AW 45 1x58 VVG	T8	G13	1570	106	88	1200	3,80	1710104
AW 45 2x36 VVG	T8	G13	1270	190	88	900	4,60	1710108
AW 45 2x58 VVG	T8	G13	1570	190	88	1200	6,60	1710110

EVG: electronic ballast; VVG: electromagnetic ballast

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting / lower luminaires

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Mounted lights for ceiling and wall

General lighting would not be the same without it: the classic rectangular trough light.

AP 65, AP 165

Luminaire:

UV-resistant acrylic glass trough (PMMA), prismatic.
Coated deep-drawn sheet steel lamp socket, white.

Electrical equipment:

3-pin connecting terminal.
Electronic ballast (EVG), electromagnetic ballast (VVG), capacitor quick plug terminal.

Installation:

Rotary bolt for fastening down the trough.

AW 65, AW 165

Luminaire:

Opal UV-resistant acrylic glass trough (PMMA).
Coated deep-drawn sheet steel lamp socket, white.

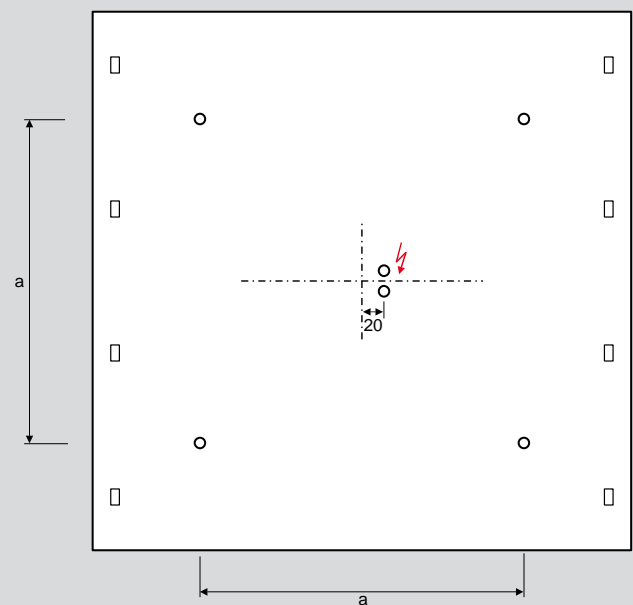
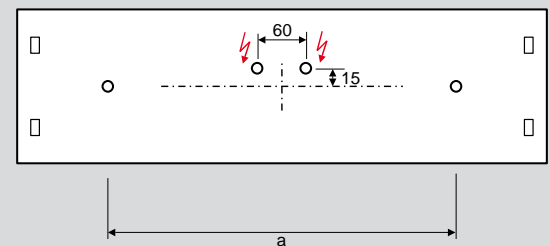
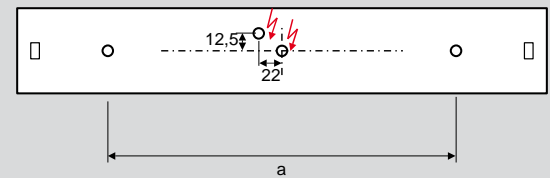
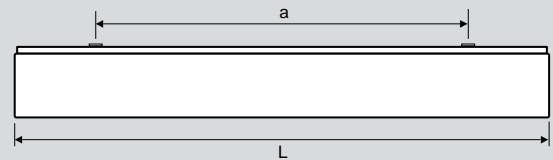
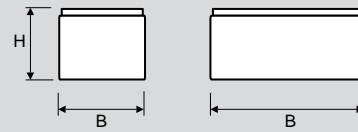
Electrical equipment:

3-pin connecting terminal.
Electronic ballast (EVG), electromagnetic ballast (VVG), capacitor quick plug terminal.

Installation:

Rotary bolt for fastening down the trough.

AW / AP 65

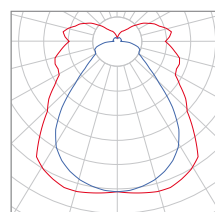


Mounted lights for ceiling and wall

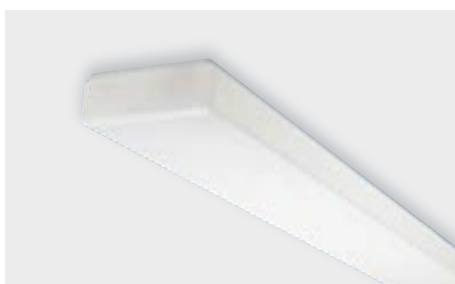


AP 65, AP 165

- UV-resistant acrylic glass trough (PMMA), prismatic
- suitable for general lighting
- rotary bolt for fastening down the trough

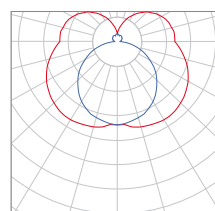


Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
AP 165 1x28/54	T5	G5	1260	103	109	900	2,30	2484466
AP 165 1x35/49	T5	G5	1560	103	109	1200	3,10	2484468
AP 165 2x28/54	T5	G5	1260	190	98	900	3,80	2484474
AP 165 2x35/49	T5	G5	1560	190	98	1200	4,90	2484476
AP 65 1x18 EVG	T8	G13	655	103	109	460	1,50	2710360
AP 65 1x36 EVG	T8	G13	1260	103	109	900	2,30	2710362
AP 65 1x58 EVG	T8	G13	1560	103	109	1200	3,10	2710364
AP 65 2x18 EVG	T8	G13	655	190	98	445	3,00	2710366
AP 65 2x36 EVG	T8	G13	1260	190	98	900	3,80	2710368
AP 65 2x58 EVG	T8	G13	1560	190	98	1200	4,90	2710370
AP 65 4x18 EVG	T8	G13	665	665	100	400	7,50	2710372
AP 65 1x18 VVG	T8	G13	655	103	109	460	1,80	1710360
AP 65 1x36 VVG	T8	G13	1260	103	109	900	2,60	1710362
AP 65 1x58 VVG	T8	G13	1560	103	109	1200	3,80	1710364
AP 65 2x18 VVG	T8	G13	655	190	98	445	3,70	1710366
AP 65 2x36 VVG	T8	G13	1260	190	98	900	4,60	1710368
AP 65 2x58 VVG	T8	G13	1560	190	98	1200	6,60	1710370
AP 65 4x18 VVG	T8	G13	665	665	100	400	8,30	1710372



AW 65, AW 165

- opal UV-resistant acrylic glass trough (PMMA)
- suitable for general lighting
- rotary bolt for fastening down the trough



Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
AW 165 1x28/54	T5	G5	1260	103	109	900	2,30	2484478
AW 165 1x35/49	T5	G5	1560	103	109	1200	3,10	2484480
AW 165 2x28/54	T5	G5	1260	190	98	900	3,80	2484482
AW 165 2x35/49	T5	G5	1560	190	98	1200	4,90	2484484
AW 65 1x18 EVG	T8	G13	655	103	109	460	1,50	2710340
AW 65 1x36 EVG	T8	G13	1260	103	109	900	2,30	2710342
AW 65 1x58 EVG	T8	G13	1560	103	109	1200	3,10	2710344
AW 65 2x18 EVG	T8	G13	655	190	98	445	3,00	2710346
AW 65 2x36 EVG	T8	G13	1260	190	98	900	3,80	2710348
AW 65 2x58 EVG	T8	G13	1560	190	98	1200	4,90	2710350
AW 65 4x18 EVG	T8	G13	665	665	100	400	7,50	2710352
AW 65 1x18 VVG	T8	G13	655	103	109	460	1,80	1710340
AW 65 1x36 VVG	T8	G13	1260	103	109	900	2,60	1710342
AW 65 1x58 VVG	T8	G13	1560	103	109	1200	3,80	1710344
AW 65 2x18 VVG	T8	G13	655	190	98	445	3,70	1710346
AW 65 2x36 VVG	T8	G13	1260	190	98	900	4,60	1710348
AW 65 2x58 VVG	T8	G13	1560	190	98	1200	6,60	1710350
AW 65 4x18 VVG	T8	G13	665	665	100	400	8,30	1710352

EVG: electronic ballast; VVG: electromagnetic ballast

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting / lower luminaires

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Mounted light for ceiling

**General lighting would not be the same without it:
The classical, rounded trough light.**

AP 175 PC

Luminaire:

Transparent polycarbonate trough with longitudinal prisms.
Polycarbonate white end caps.
Coated sheet steel lamp socket, white (similar to RAL 9003).

Electrical equipment:

3-pin quick plug terminal.
Electronic ballast (EVG).

Installation:

Fasten to the ceiling.
Cable entry via end caps possible.

AW 175 PC

Luminaire:

Opal polycarbonate trough.
Polycarbonate white end caps.
Coated sheet steel lamp socket, white (similar to RAL 9003).

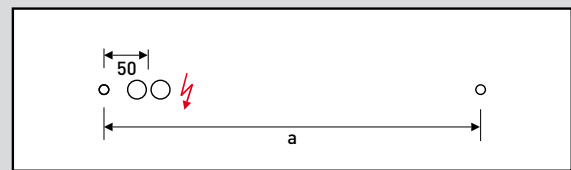
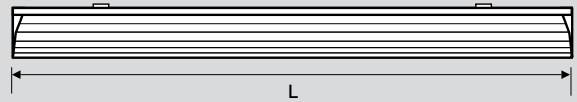
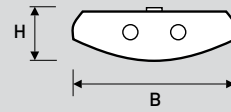
Electrical equipment:

3-pin quick plug terminal.
Electronic ballast (EVG).

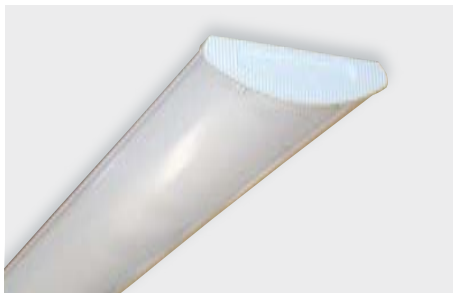
Installation:

Fasten to the ceiling.
Cable entry via end caps possible.

AW / AP 175 PC

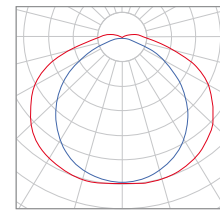


Mounted light for ceiling

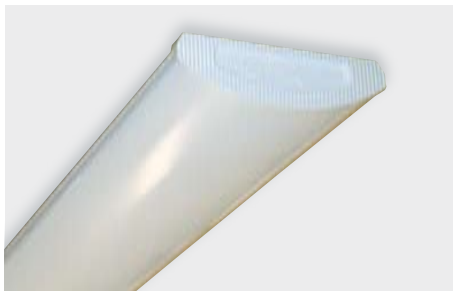


AP 175 PC

- transparent polycarbonate trough with longitudinal prisms
- suitable for general lighting

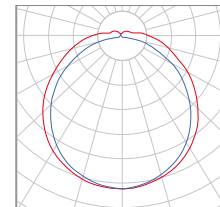


Model	Lamp	Version	Dimensions in mm				Article number
			Length	Width	Height	a	
AP 175 PC 2x14	T5	G5	594	172	53	400	2620370
AP 175 PC 2x28	T5	G5	1194	172	53	1000	2620372
AP 175 PC 2x35	T5	G5	1494	172	53	1300	2620374
AP 175 PC 2x49	T5	G5	1494	172	53	1300	2620376



AW 175 PC

- opal polycarbonate trough
- suitable for general lighting



Model	Lamp	Version	Dimensions in mm				Article number
			Length	Width	Height	a	
AW 175 PC 2x14	T5	G5	594	172	53	400	2620380
AW 175 PC 2x28	T5	G5	1194	172	53	1000	2620382
AW 175 PC 2x35	T5	G5	1494	172	53	1300	2620384
AW 175 PC 2x49	T5	G5	1494	172	53	1300	2620386

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting / lower luminaires

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

- Appendix
- Outdoor lighting
- Damp-proof lights
- Industrial lighting
- Luminaires for sports facilities
- Office lighting /
louver luminaires**
- General lighting
- Coved and illuminated ceiling lighting
- Architectural lighting





Mounted louver luminaires, cornered Office lighting / louver luminaires

Our louver luminaires have a clear, functional design.

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting /
louver luminaires

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Mounted louver luminaires
direct or direct/indirect light beam

The classic for office lighting.

PR 158

Luminaire:

sheet steel, powder-coated, white (similar to RAL 9003).
2-lamp and 1-lamp version in the same housing.

Louver:

BAP 60° parabolic specular louver with reduced luminance, made of premium-quality mirror material.
Direct/indirect light distribution.
Optimised for T5 lamps in terms of lighting technology.

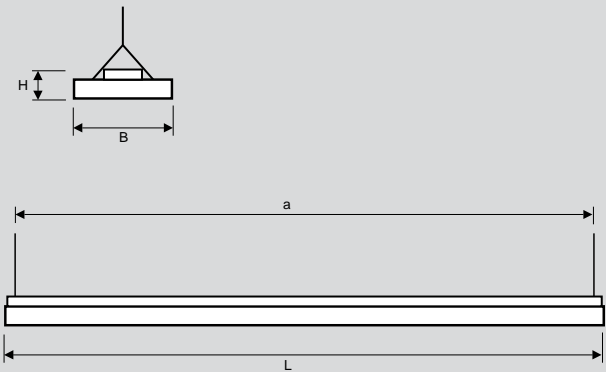
Electrical equipment:

Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:

Tool-free and stepless vertically adjustable wire suspension with transparently coated lead.
Included in the delivery.

PR 158

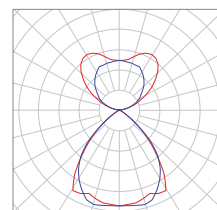


Mounted louver luminaires
direct or direct/indirect light beam



PR 158

- BAP 60° parabolic specular louver
- suitable for workplaces with monitors and those supporting monitors
- direct/indirect light beam
- white, powder-coated sheet steel luminaire (similar to RAL 9003)
- tool-free and stepless vertically adjustable wire suspension with transparently coated lead included



Detail view



Model	Lamp	Version	Dimensions in mm				Article number
			Length	Width	Height	a	
PR 158 ws 1x28/54	T5	G5	1208	198	39+19	1144	2620624
PR 158 ws 1x35/49	T5	G5	1508	198	39+19	1444	2620626
PR 158 ws 2x28/54	T5	G5	1208	198	39+19	1144	2620628
PR 158 ws 2x35/49	T5	G5	1508	198	39+19	1444	2620630



EVG: electronic ballast; VWG: electromagnetic ballast

Mounted louver luminaires direct light beam

Whether individually or as a light strip, these lights are characterised by their straight-line design, their compact construction (only 50 mm high) and optimum lighting. Suitable for workplaces with monitors.

AR 181 F

Luminaire:

Sheet steel, powder-coated white (similar to RAL 9016). 2-lamp version in a 1-lamp housing for high luminous flux with small dimensions. Please order end caps separately.

Louver:

White, powder coated sheet steel reflector and transverse lamellae. Direct light distribution. Optimised for T5 lamps in terms of lighting technology.

Visually continuous louver for light strip assembly.

Electrical equipment:

Electronic ballast (EVG). Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.

3-pin quick plug terminal.

Installation:

For ceiling mounting, with Y rope suspension.

AR 184 F

Luminaire:

Sheet steel, powder-coated, either white aluminium- coloured (similar to RAL 9006) or white (similar to RAL 9016). 2-lamp version in a 1-lamp housing for high luminous flux with small dimensions. Please order end caps separately.

Louver:

Parabolically shaped longitudinal reflectors and profiled transverse lamellae, made of matt anodised aluminium. Direct light distribution.

Optimised for T5 lamps in terms of lighting technology. Visually continuous louver for light strip assembly.

Electrical equipment:

Electronic ballast (EVG). Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.

3-pin quick plug terminal.

Installation:

For ceiling mounting, Y rope suspension.

AF 187 F

Luminaire:

Sheet steel, powder-coated, either white aluminium-coloured (similar to RAL 9006) or white (similar to RAL 9016). 2-lamp version in a 1-lamp housing for high luminous flux with small dimensions. Please order end caps separately.

Louver:

BAP 65° parabolic specular louver with reduced luminance, made of high-gloss anodised aluminium. Matt anodised louvers are also available on request. Direct light distribution. Optimised for T5 lamps in terms of lighting technology. Suitable for workplaces with monitors and those supporting monitors.

Visually continuous louver for light strip assembly.

Electrical equipment:

Electronic ballast (EVG). Special versions available, e.g. adjustable EVG 1-10 V, DALI.

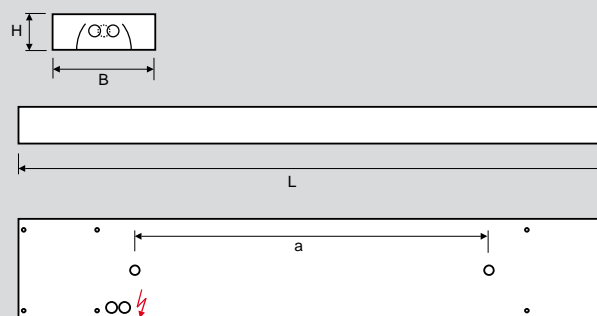
Safety lighting versions available.

3-pin quick plug terminal.

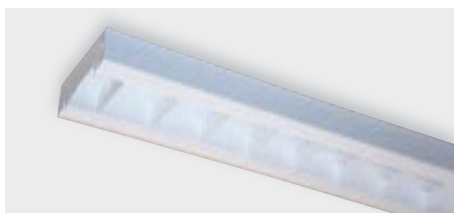
Installation:

For ceiling mounting, with Y rope suspension.

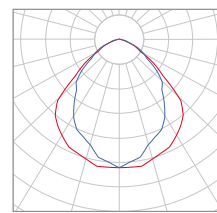
AR 181 / 184 / 187 F



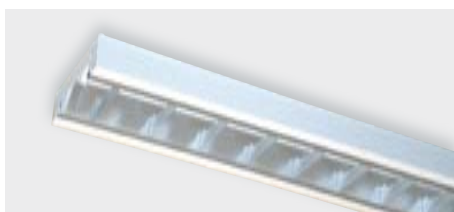
Accessories: page 122

Mounted louver luminaires
direct light beam**AR 181 F**

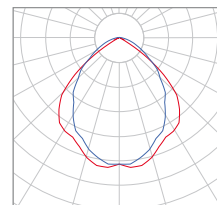
- white, powder coated sheet steel reflector and transverse lamellae
- direct light beam
- white powder-coated sheet steel housing (similar to RAL 9016)
- ceiling mounting, also with Y rope suspension



Model	Lamp	Version	Dimensions in mm				Article number
			Length	Width	Height	a	
AR 181F ws 1x28/54	T5	G5	1180	140	50	800	2520450
AR 181F ws 1x35/49/80	T5	G5	1480	140	50	1150	2520452
AR 181F ws 2x28/54	T5	G5	1180	140	50	800	2520454
AR 181F ws 2x35/49	T5	G5	1480	140	50	1150	2520456
AR 181F ws 2x80	T5	G5	1480	140	50	1150	2520458

**AR 184 F**

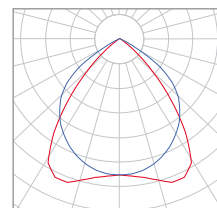
- parabolically shaped longitudinal reflectors and profiled transverse lamellae made of matt anodised aluminium
- direct light beam
- powder-coated sheet steel housing, either white aluminium-coloured (similar to RAL 9006) or white (similar to RAL 9016)
- ceiling mounting, also with Y rope suspension



Model	Lamp	Version	Dimensions in mm				Article number
			Length	Width	Height	a	
AR 184F si 1x28/54	T5	G5	1180	140	50	800	2520460
AR 184F si 1x35/49/80	T5	G5	1480	140	50	1150	2520462
AR 184F si 2x28/54	T5	G5	1180	140	50	800	2520464
AR 184F si 2x35/49	T5	G5	1480	140	50	1150	2520466
AR 184F si 2x80	T5	G5	1480	140	50	1150	2520468
AR 184F ws 1x28/54	T5	G5	1180	140	50	800	2520470
AR 184F ws 1x35/49/80	T5	G5	1480	140	50	1150	2520472
AR 184F ws 2x28/54	T5	G5	1180	140	50	800	2520474
AR 184F ws 2x35/49	T5	G5	1480	140	50	1150	2520476
AR 184F ws 2x80	T5	G5	1480	140	50	1150	2520478

**AR 187 F**

- BAP 65° parabolic specular louver with reduced luminance, made of high-gloss anodised aluminium (or with matt anodised louvers)
- direct light beam
- powder-coated sheet steel housing, either white aluminium-coloured (similar to RAL 9006) or white (similar to RAL 9016)
- ceiling mounting, also with Y rope suspension



Model	Lamp	Version	Dimensions in mm				Article number
			Length	Width	Height	a	
AR 187F si 1x28/54	T5	G5	1180	140	50	800	2520480
AR 187F si 1x35/49/80	T5	G5	1480	140	50	1150	2520482
AR 187F si 2x28/54	T5	G5	1180	140	50	800	2520484
AR 187F si 2x35/49	T5	G5	1480	140	50	1150	2520486
AR 187F si 2x80	T5	G5	1480	140	50	1150	2520488
AR 187F ws 1x28/54	T5	G5	1180	140	50	800	2520490
AR 187F ws 1x35/49/80	T5	G5	1480	140	50	1150	2520492
AR 187F ws 2x28/54	T5	G5	1180	140	50	800	2520494
AR 187F ws 2x35/49	T5	G5	1480	140	50	1150	2520496
AR 187F ws 2x80	T5	G5	1480	140	50	1150	2520498

EVG: electronic ballast; VWG: electromagnetic ballast

Mounted louver luminaires
direct or direct/indirect light beam

Whether individually or as a light strip, these lights are characterised by their straight-line design, their compact construction (only 50 mm high) and optimum lighting. Suitable for workplaces with monitors.

AR 188 F

Luminaire:

Sheet steel, powder-coated, either white aluminium-coloured (similar to RAL 9006) or white (similar to RAL 9016). 2-lamp version in a 1-lamp housing for high luminous flux with small dimensions. Please order end caps separately.

Louver:

BAP 65° parabolic specular louver with reduced luminance, made of high-gloss anodised aluminium. Matt anodised louvers are also available on request. Direct/indirect light distribution. Optimised for T5 lamps in terms of lighting technology. Suitable for workplaces with monitors and those supporting monitors. Visually continuous louver for light strip assembly.

Electrical equipment:

Electronic ballast (EVG). Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.
3-pin quick plug terminal.

Installation:

For ceiling mounting, with Y rope suspension.

AF 180 F

Luminaire:

Sheet steel, powder-coated, either white aluminium-coloured (similar to RAL 9006) or white (similar to RAL 9016). Please order end caps separately.

Reflector:

Matt anodised pure aluminium.
Asymmetrical direct light distribution.
Optimised for T5 lamps in terms of lighting technology.
Visually continuous louver for light strip assembly.

Electrical equipment:

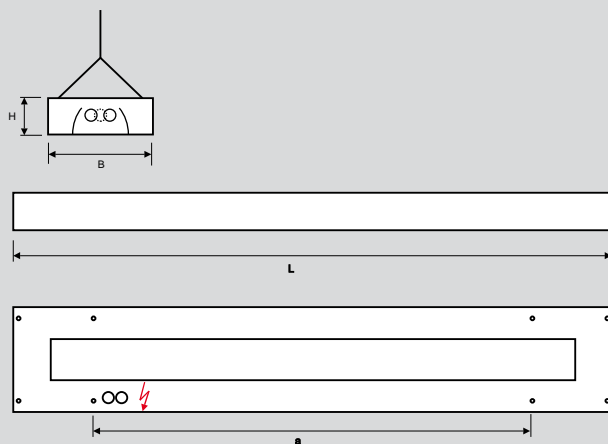
Electronic ballast (EVG). Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.
3-pin quick plug terminal.

Installation:

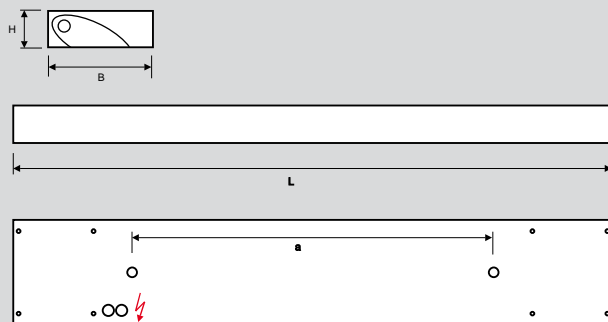
For ceiling mounting, with Y rope suspension.

AR 188 F



Accessories: page 122

AF 180 F



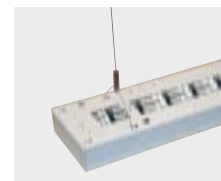
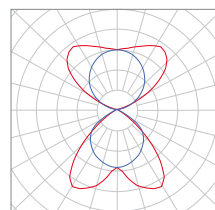
Accessories: page 122

Mounted louver luminaires
direct or direct/indirect light beam



AR 188 F

- BAP 65° parabolic specular louver with reduced luminance, made of high-gloss anodised aluminium (or with matt anodised louvers)
- direct/indirect light beam
- sheet steel, powder-coated housing, either white aluminium-coloured (similar to RAL 9006) or white (similar to RAL 9016)
- ceiling mounting with Y rope suspension

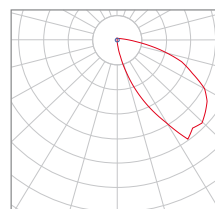


Model	Lamp	Version	Dimensions in mm				Article number
			Length	Width	Height	a	
AR 188F si 1x28/54	T5	G5	1180	140	50	800	2520500
AR 188F si 1x35/49/80	T5	G5	1480	140	50	1150	2520502
AR 188F si 2x28/54	T5	G5	1180	140	50	800	2520504
AR 188F si 2x35/49	T5	G5	1480	140	50	1150	2520506
AR 188F si 2x80	T5	G5	1480	140	50	1150	2520508
AR 188F ws 1x28/54	T5	G5	1180	140	50	800	2520510
AR 188F ws 1x35/49/80	T5	G5	1480	140	50	1150	2520512
AR 188F ws 2x28/54	T5	G5	1180	140	50	800	2520514
AR 188F ws 2x35/49	T5	G5	1480	140	50	1150	2520516
AR 188F ws 2x80	T5	G5	1480	140	50	1150	2520518



AF 180 F

- matt anodised pure aluminium reflector
- asymmetrically direct light beam
- sheet steel, powder-coated, either white aluminium-coloured (similar to RAL 9006) or white (similar to RAL 9016)
- ceiling mounting, also with Y rope suspension



Model	Lamp	Version	Dimensions in mm				Article number
			Length	Width	Height	a	
AF 180F si 1x28/54	T5	G5	1180	140	50	800	2520520
AF 180F si 1x35/49/80	T5	G5	1480	140	50	1150	2520522
AF 180F ws 1x28/54	T5	G5	1180	140	50	800	2520524
AF 180F ws 1x35/49/80	T5	G5	1480	140	50	1150	2520526

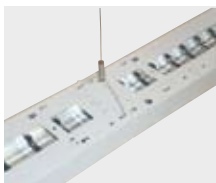
Mounted louver luminaires
direct or direct/indirect light beam

Accessories



SY 60 Set si/ws

- Y-wire suspension, white
- tool-free height adjustable up to a maximum of 1.5 m
- including mains connection cable



SY 60

- Y-wire suspension
- tool-free height adjustable up to a maximum of 1.5 m



SK 180 F si/ws

- metal end cap, pair



SH 180 F si/ws

- sensor holder for any later mounting



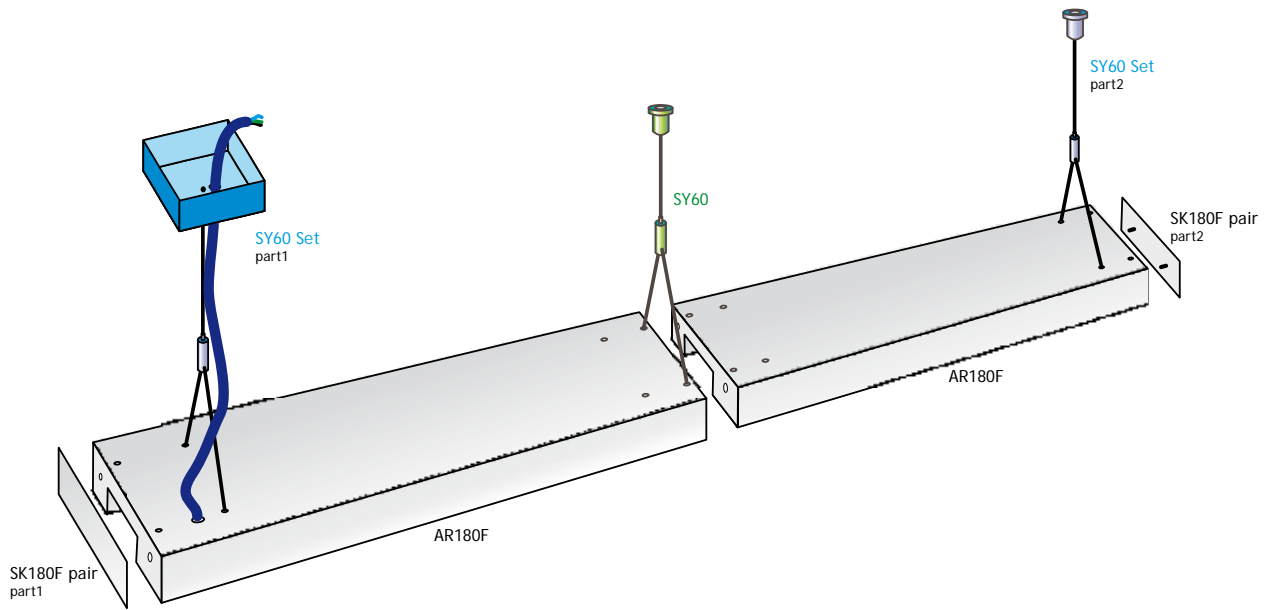
VK 180-3, VK 180-5

- feed-through wiring, 3 wires (3 x 1.5 mm²)
- feed-through wiring, 5 wires (5 x 1.5 mm²)

Model	Description	Article number
SY 60Set si	Y-wire suspensions set, silver including 3-wire lead	1401010
SY 60Set dim si	Y-wire suspensions set, silver including 5-wire lead	1401012
SY 60Set ws	Y-wire suspensions set, silver including 3-wire lead	1401002
SY 60Set dim ws	Y-wire suspensions set, silver including 5-wire lead	1401004
SY 60	Y-wire suspension	1401006
SK 180F si Paar	Metal end cap, silver, pair	1520170
SK 180F ws Paar	Metal end cap, white, pair	1520171
SH 180F si	Sensor holder for any later mounting, silver	1520173
SH 180F ws	Sensor holder for any later mounting, white	1520175
VK 180-3 28/54	Feed-through wiring, 3-pole 28/54	1520172
VK 180-3 35/49/80	Feed-through wiring, 3-pole 35/49/80	1520174
VK 180-5 28/54	Feed-through wiring, 5-pole 28/54	1520176
VK 180-5 35/49/80	Feed-through wiring, 5-pole 35/49/80	1520178

Mounted louver luminaires
direct or direct/indirect light beam

Kit: AR 180 F



Mounted louver luminaires direct light beam

These lights make a good impression in the most varied of surroundings, no matter what louver or cover is used.

AR 51 F

Luminaire:

Galvanised sheet steel, white, powder-coated (similar to RAL 9003).

Louver:

Stepped reflector and transverse lamellae made of white, powder coated aluminium.

Direct light distribution. Optimised for T8 lamps in terms of lighting technology.

Tool-free fastening with spring steel holder, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.

Electronic ballast (EVG).

Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.

Installation:

For ceiling mounting.

AR 54 F

Luminaire:

Galvanised sheet steel, white, powder-coated (similar to RAL 9003).

Louver:

Stepped specular louver made of high-gloss purest aluminium, transverse lamellae aluminium profiled.

Direct light distribution. Optimised for T8 lamps in terms of lighting technology.

Tool-free fastening with spring steel holder, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.

Electronic ballast (EVG).

Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.

Installation:

For ceiling mounting.

AR 57 F

Luminaire:

Galvanised sheet steel, white, powder-coated (similar to RAL 9003).

Louver:

BAP 60° parabolic specular louver with reduced luminance made of high-gloss anodised aluminium.

Direct light distribution. Optimised for T8 lamps in terms of lighting technology.

Tool-free fastening with spring steel holder, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.

Electronic ballast (EVG).

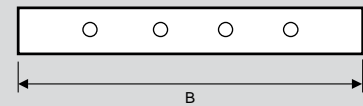
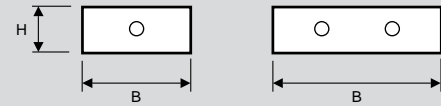
Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.

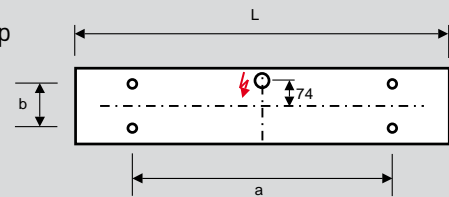
Installation:

For ceiling mounting.

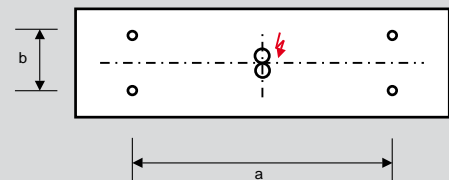
AR 51 / 54 / 57 F



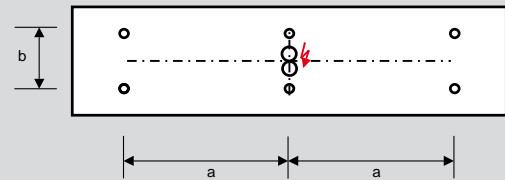
1-lamp



2/4-lamp



*

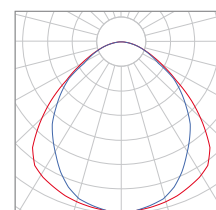


Mounted louver luminaires
direct light beam



AR 51 F

- stepped reflector and transverse lamellae made of white, powder coated aluminium, direct light beam
- for ceiling mounting

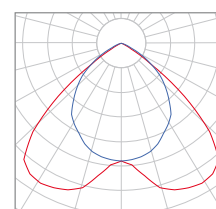


Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
AR 51F 1x36 EVG	T8	G13	1235	200	85	760	107	3,0	2920602
AR 51F 1x58 EVG	T8	G13	1535	200	85	1220	107	5,5	2920604
AR 51F 2x36 EVG	T8	G13	1235	310	85	760	186	4,5	2920608
AR 51F 2x58 EVG	T8	G13	1535	310	85	610+610*	186	6,5	2920610
AR 51F 4x18 EVG	T8	G13	635	635	85	445	540	5,5	2920618
AR 51F 4x58 EVG	T8	G13	1535	635	85	610+610*	540	12,5	2920622



AR 54 F

- stepped specular louver made of high-gloss purest aluminium, transverse lamellae aluminium profiled
- for ceiling mounting

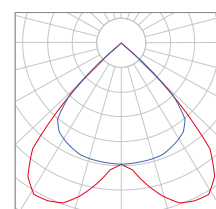


Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
AR 54F 1x36 EVG	T8	G13	1235	200	85	760	107	3,0	2920642
AR 54F 1x58 EVG	T8	G13	1535	200	85	1220	107	5,5	2920644
AR 54F 2x36 EVG	T8	G13	1235	310	85	760	186	4,5	2920648
AR 54F 2x58 EVG	T8	G13	1535	310	85	610+610*	186	6,5	2920650
AR 54F 4x18 EVG	T8	G13	635	635	85	445	540	5,5	2920658
AR 54F 4x58 EVG	T8	G13	1535	635	85	610+610*	540	12,5	2920662



AR 57 F

- BAP 60° specular louver, direct light beam
- suitable for workplaces with monitors and those supporting monitors
- for ceiling mounting



Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
AR 57F 1x36 EVG	T8	G13	1235	200	85	760	107	3,0	2920682
AR 57F 1x58 EVG	T8	G13	1535	200	85	1220	107	5,5	2920684
AR 57F 2x36 EVG	T8	G13	1235	310	85	760	186	4,5	2920688
AR 57F 2x58 EVG	T8	G13	1535	310	85	610+610*	186	6,5	2920690
AR 57F 4x18 EVG	T8	G13	635	635	85	445	540	5,5	2920698
AR 57F 4x58 EVG	T8	G13	1535	635	85	610+610*	540	12,5	2920702

EVG: electronic ballast; VWG: electromagnetic ballast

Mounted louver luminaires direct light beam

These lights make a good impression in the most varied of surroundings, no matter what louver or cover is used.

AF 50 F

Luminaire:

Galvanised sheet steel, white, powder-coated (similar to RAL 9003).

Louvers:

Matt anodised purest aluminium reflector with asymmetrical light distribution for the homogenous lighting of wall surfaces. Optimised for T8 lamps in terms of lighting technology.

Electrical equipment:

3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:

For ceiling mounting.

AW 50 F

Luminaire:

Galvanised sheet steel, white, powder-coated (similar to RAL 9003).

Optics:

Lamp cover with opal acrylic disc.
Direct light distribution. Optimised for T8 lamps in terms of lighting technology.
Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:

For ceiling mounting.

AP 50 F

Luminaire:

Galvanised sheet steel, white, powder-coated (similar to RAL 9003).

Optics:

Lamp cover with prismatic acrylic disc.
Direct light distribution. Optimised for T8 lamps in terms of lighting technology.
Fixed with a spring steel fastener, one-sided adjustable suspension.

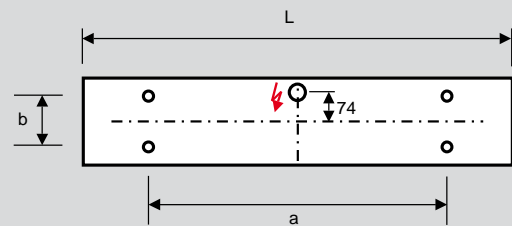
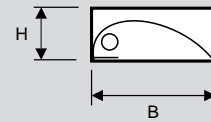
Electrical equipment:

3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

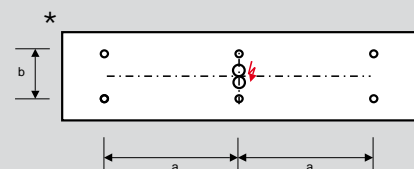
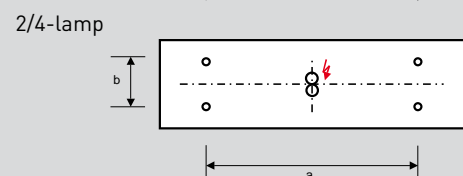
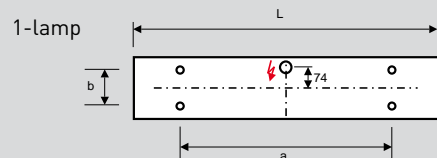
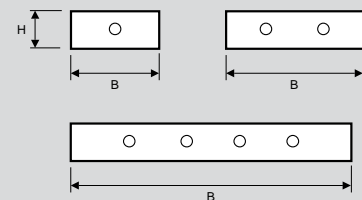
Installation:

For ceiling mounting.

AF 50 F



AW/ AP 50 F

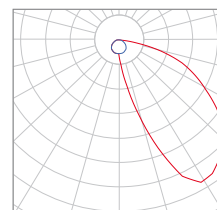


Mounted louver luminaires
direct light beam



AF 50 F

- matt anodised purest aluminium reflector with asymmetrical light distribution
- for the homogenous lighting of wall surfaces
- for ceiling mounting

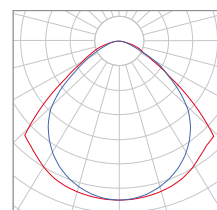


Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
AF 50F 1x36 EVG	T8	G13	1235	200	85	760	107	3,0	2920722
AF 50F 1x58 EVG	T8	G13	1535	200	85	1220	107	5,5	2920724



AW 50 F

- disc inlay made of opal acrylic glass (PMMA), in aluminium frame, with spring steel holder
- for ceiling mounting

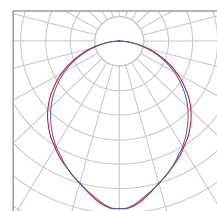


Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
AW 50F 1x36 EVG	T8	G13	1235	200	85	760	107	3,0	2920782
AW 50F 1x58 EVG	T8	G13	1535	200	85	1220	107	5,5	2920784
AW 50F 2x36 EVG	T8	G13	1235	310	85	760	186	4,5	2920788
AW 50F 2x58 EVG	T8	G13	1535	310	85	610+610*	186	6,5	2920790
AW 50F 4x18 EVG	T8	G13	635	635	85	445	540	5,5	2920798
AW 50F 4x18 IP54 EVG	T8	G13	635	635	85	445	505	7,0	2920524



AP 50 F

- disc inlay made of acrylic glass (PMMA) with calculated prisms, in aluminium frame, with spring steel holder
- for ceiling mounting



Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
AP 50F 1x36 EVG	T8	G13	1235	200	85	760	107	3,0	2920742
AP 50F 1x58 EVG	T8	G13	1535	200	85	1220	107	5,5	2920744
AP 50F 2x36 EVG	T8	G13	1235	310	85	760	186	4,5	2920748
AP 50F 2x58 EVG	T8	G13	1535	310	85	610+610*	186	6,5	2920750
AP 50F 4x18 EVG	T8	G13	635	635	85	445	540	5,5	2920758
AP 50F 4x18 IP54 EVG	T8	G13	635	635	85	445	505	7,0	2920504

Project solution

Light sells. Colour-neutral, good quality lighting of goods is essential to good presentation.





Mounted louver luminaires, octagonal

Office lighting / louver luminaires

With their straight-line design, these lights are ideal for lighting any kind of workplace.

Mounted louver luminaires for office and workplaces with monitors

These lights are characterised by their clear design and optimum lighting. Also suitable for workplaces with monitors.

AR 61 N, AR 161 N

Luminaire:

Galvanised sheet steel, white, powder-coated (similar to RAL 9003).

Louvers:

Stepped reflector and transverse lamellae made of white, powder coated aluminium.

Direct light distribution. Optimised for T8 lamps and T5 lamps in terms of lighting technology.

Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.

Electromagnetic ballast (VVG), electronic ballast (EVG), capacitor fitting spring and quick plug terminal.

Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.

Installation:

For ceiling mounting, rope suspension.

AR 64 N, AR 164 N

Luminaire:

Galvanised sheet steel, white, powder-coated (similar to RAL 9003).

Louvers:

Stepped specular louver made of high-gloss purest aluminium, transverse lamellae aluminium profiled.

Direct light distribution. Optimised for T8 and T5 lamps in terms of lighting technology.

Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.

Electromagnetic ballast (VVG), electronic ballast (EVG), capacitor fitting spring and quick plug terminal.

Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.

Installation:

For ceiling mounting, rope suspension.

AR 67 N, AR 167 N

Luminaire:

Galvanised sheet steel, white, powder-coated (similar to RAL 9003).

Louvers:

BAP 60° parabolic specular louver with reduced luminance made of high-gloss anodised purest aluminium.

Glare-suppressed to DIN/EN, suitable for workplaces with monitors and those supporting monitors. Also available matt anodised.

Direct light distribution. Optimised for T8 and T5 lamps in terms of lighting technology.

Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.

Electromagnetic ballast (VVG), electronic ballast (EVG), capacitor fitting spring and quick plug terminal.

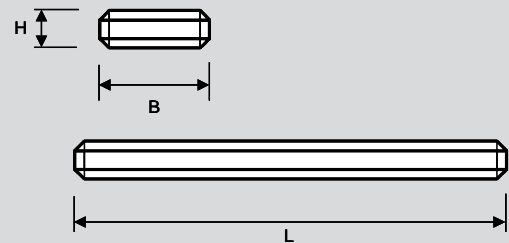
Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.

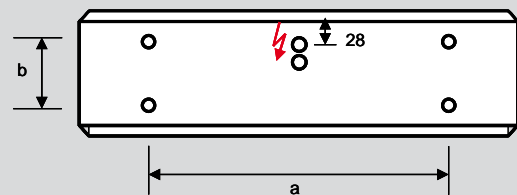
Installation:

For ceiling mounting, rope suspension.

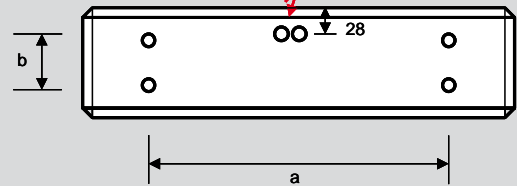
AR 61 / 64 / 67 N



T8 version



T5 version



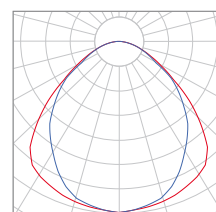
Accessories: page 136

Mounted louver luminaires
for office and workplaces with monitors



AR 61 N, AR 161 N

- stepped reflector and transverse lamellae made of white, powder coated aluminium, direct light beam
- for ceiling mounting or rope suspension
- single light

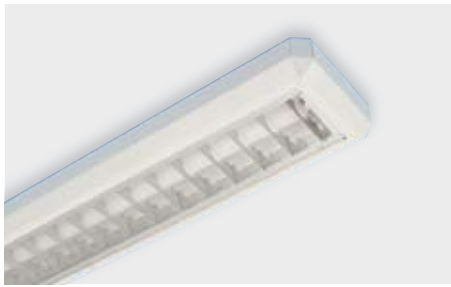


Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
AR 61N 1X18 EVG	T8	G13	670	200	60	445	94	2,0	2920102
AR 61N 1X36 EVG	T8	G13	1280	200	60	760	94	3,5	2920100
AR 61N 1X58 EVG	T8	G13	1580	200	60	1220	94	5,0	2920108
AR 61N 2X18 EVG	T8	G13	670	200	60	445	94	3,0	2920106
AR 61N 2X36 EVG	T8	G13	1280	200	60	760	94	5,5	2920104
AR 61N 2X58 EVG	T8	G13	1580	200	60	1220	94	7,5	2920110
AR 61N 1X18 VVG	T8	G13	670	200	60	445	94	2,5	1920102
AR 61N 1X36 VVG	T8	G13	1280	200	60	760	94	4,0	1920100
AR 61N 1X58 VVG	T8	G13	1580	200	60	1220	94	5,5	1920108
AR 61N 2X18 VVG	T8	G13	670	200	60	445	94	3,5	1920106
AR 61N 2X36 VVG	T8	G13	1280	200	60	760	94	6,0	1920104
AR 61N 2X58 VVG	T8	G13	1580	200	60	1220	94	8,0	1920110
AR 161N 1x14	T5	G5	630	175	60	445	64	2,0	2920070
AR 161N 1x24	T5	G5	630	175	60	445	64	2,0	2920072
AR 161N 1x28	T5	G5	1230	175	60	760	64	3,5	2920074
AR 161N 1x35	T5	G5	1530	175	60	1220	64	4,0	2920076
AR 161N 1x49	T5	G5	1530	175	60	1220	64	4,0	2920078
AR 161N 1x54	T5	G5	1230	175	60	760	64	3,5	2920080
AR 161N 1x80	T5	G5	1530	175	60	1220	64	4,0	2920082
AR 161N 2x14	T5	G5	630	175	60	445	64	2,5	2920084
AR 161N 2x24	T5	G5	630	175	60	445	64	2,5	2920086
AR 161N 2x28	T5	G5	1230	175	60	760	64	4,5	2920088
AR 161N 2x35	T5	G5	1530	175	60	1220	64	4,5	2920090
AR 161N 2x49	T5	G5	1530	175	60	1220	64	4,5	2920092
AR 161N 2x54	T5	G5	1230	175	60	760	64	4,5	2920094
AR 161N 2x80	T5	G5	1530	175	60	1220	64	5,0	2920096
AR 161N 3x14	T5	G5	630	355	60	445	244	3,5	2920098
AR 161N 3x24	T5	G5	630	355	60	445	244	3,5	2920066
AR 161N 4x14	T5	G5	630	445	60	445	355	4,0	2920068
AR 161N 4x24	T5	G5	630	445	60	445	355	4,0	2920069



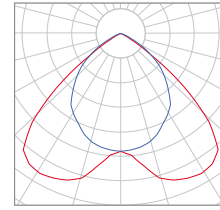
These lights are available for light strip mounting as start modules (LB-A) or middle modules (LB-M).
You can obtain separate data sheets on request.

Mounted louver luminaires
for office and workplaces with monitors



AR 64 N, AR 164 N

- stepped specular louver made of high-gloss purest aluminium, transverse lamellae aluminium profiled
- for ceiling mounting or rope suspension
- single light



Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
AR 64N 1X18 EVG	T8	G13	670	200	60	445	94	2,0	2920150
AR 64N 1X36 EVG	T8	G13	1280	200	60	760	94	3,5	2920152
AR 64N 1X58 EVG	T8	G13	1580	200	60	1220	94	5,0	2920158
AR 64N 2X18 EVG	T8	G13	670	200	60	445	94	3,0	2920154
AR 64N 2X36 EVG	T8	G13	1280	200	60	760	94	5,5	2920156
AR 64N 2X58 EVG	T8	G13	1580	200	60	1220	94	7,5	2920160
AR 64N 1X18 WVG	T8	G13	670	200	60	445	94	2,5	1920150
AR 64N 1X36 WVG	T8	G13	1280	200	60	760	94	4,0	1920152
AR 64N 1X58 WVG	T8	G13	1580	200	60	1220	94	5,5	1920158
AR 64N 2X18 WVG	T8	G13	670	200	60	445	94	3,5	1920154
AR 64N 2X36 WVG	T8	G13	1280	200	60	760	94	6,0	1920156
AR 64N 2X58 WVG	T8	G13	1580	200	60	1220	94	8,0	1920160
AR 164N 1x14	T5	G5	630	175	60	445	64	2,0	2920550
AR 164N 1x24	T5	G5	630	175	60	445	64	2,0	2920552
AR 164N 1x28	T5	G5	1230	175	60	760	64	3,5	2920554
AR 164N 1x35	T5	G5	1530	175	60	1220	64	4,0	2920556
AR 164N 1x49	T5	G5	1530	175	60	1220	64	4,0	2920558
AR 164N 1x54	T5	G5	1230	175	60	760	64	3,5	2920560
AR 164N 1x80	T5	G5	1530	175	60	1220	64	4,0	2920562
AR 164N 2x14	T5	G5	630	175	60	445	64	2,5	2920564
AR 164N 2x24	T5	G5	630	175	60	445	64	2,5	2920566
AR 164N 2x28	T5	G5	1230	175	60	760	64	4,5	2920568
AR 164N 2x35	T5	G5	1530	175	60	1220	64	4,5	2920570
AR 164N 2x49	T5	G5	1530	175	60	1220	64	4,5	2920572
AR 164N 2x54	T5	G5	1230	175	60	760	64	4,5	2920574
AR 164N 2x80	T5	G5	1530	175	60	1220	64	5,0	2920576
AR 164N 3x14	T5	G5	630	355	60	445	244	3,5	2920578
AR 164N 3x24	T5	G5	630	355	60	445	244	3,5	2920580
AR 164N 4x14	T5	G5	630	445	60	445	355	4,0	2920582
AR 164N 4x24	T5	G5	630	445	60	445	355	4,0	2920584



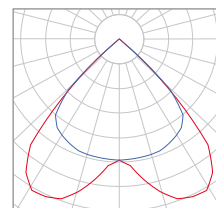
These lights are available for light strip mounting as start modules (LB-A) or middle modules (LB-M).
You can obtain separate data sheets on request.

Mounted louver luminaires
for office and workplaces with monitors



AR 67 N, AR 167 N

- BAP 60° parabolic specular louver, direct light beam (also available matt anodised)
- suitable for workplaces with monitors and those supporting monitors
- for ceiling mounting or suspension wire or on mounting rails
- single light



Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
AR 67N 1X18 EVG	T8	G13	670	200	60	445	94	2,0	2920200
AR 67N 1X36 EVG	T8	G13	1280	200	60	760	94	3,5	2920202
AR 67N 1X58 EVG	T8	G13	1580	200	60	1220	94	5,0	2920208
AR 67N 2X18 EVG	T8	G13	670	200	60	445	94	3,0	2920204
AR 67N 2X36 EVG	T8	G13	1280	200	60	760	94	5,5	2920206
AR 67N 2X58 EVG	T8	G13	1580	200	60	1220	94	7,5	2920210
AR 67N 1X18 VVG	T8	G13	670	200	60	445	94	2,5	1920200
AR 67N 1X36 VVG	T8	G13	1280	200	60	760	94	4,0	1920202
AR 67N 1X58 VVG	T8	G13	1580	200	60	1220	94	5,5	1920208
AR 67N 2X18 VVG	T8	G13	670	200	60	445	94	3,5	1920204
AR 67N 2X36 VVG	T8	G13	1280	200	60	760	94	6,0	1920206
AR 67N 2X58 VVG	T8	G13	1580	200	60	1220	94	8,0	1920210
AR 167N 1x14	T5	G5	630	175	60	445	64	2,0	2920350
AR 167N 1x24	T5	G5	630	175	60	445	64	2,0	2920351
AR 167N 1x28	T5	G5	1230	175	60	760	64	3,5	2920352
AR 167N 1x35	T5	G5	1530	175	60	1220	64	4,0	2920354
AR 167N 1x49	T5	G5	1530	175	60	1220	64	4,0	2920355
AR 167N 1x54	T5	G5	1230	175	60	760	64	3,5	2920353
AR 167N 1x80	T5	G5	1530	175	60	1220	64	4,0	2920356
AR 167N 2x14	T5	G5	630	175	60	445	64	2,5	2920358
AR 167N 2x24	T5	G5	630	175	60	445	64	2,5	2920359
AR 167N 2x28	T5	G5	1230	175	60	760	64	4,5	2920360
AR 167N 2x35	T5	G5	1530	175	60	1220	64	4,5	2920362
AR 167N 2x49	T5	G5	1530	175	60	1220	64	4,5	2920363
AR 167N 2x54	T5	G5	1230	175	60	760	64	4,5	2920361
AR 167N 2x80	T5	G5	1530	175	60	1220	64	5,0	2920364
AR 167N 3x14	T5	G5	630	355	60	445	244	3,5	2920586
AR 167N 3x24	T5	G5	630	355	60	445	244	3,5	2920588
AR 167N 4x14	T5	G5	630	445	60	445	355	4,0	2920590
AR 167N 4x24	T5	G5	630	445	60	445	355	4,0	2920592



These lights are available for light strip mounting as start modules (LB-A) or middle modules (LB-M). You can obtain separate data sheets on request.



EVG: electronic ballast; VVG: electromagnetic ballast

Mounted louver luminaires
direct or direct/indirect light beam

AR 68 N, AR 168 N

Luminaire:

Galvanised sheet steel, white, powder-coated (similar to RAL 9003).

Louver:

BAP 60° parabolic specular louver with reduced luminance made of high-gloss anodised purest aluminium.

Glare-suppressed to DIN/EN, suitable for workplaces with monitors and those supporting monitors. Also available matt anodised.

Direct/indirect light distribution. Optimised for T8 and T5 lamps in terms of lighting technology.

Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.

Electronic ballast (EVG).

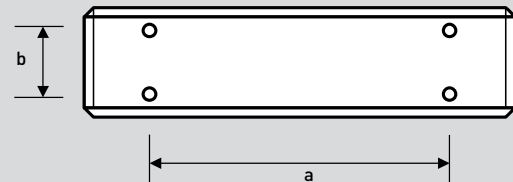
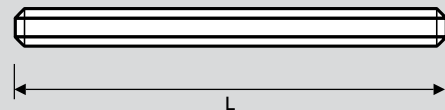
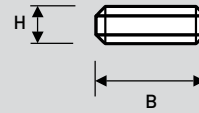
Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.

Installation:

Rope suspension. For ceiling mounting with Y-rope suspension.

AR 68 N, AR 168 N



Accessories: page 136

AF 160 N

Luminaire:

Galvanised sheet steel, white, powder-coated (similar to RAL 9003).

Louver:

Matt anodised purest aluminium reflector with asymmetrical light distribution for the homogenous lighting of wall surfaces.

Direct light distribution. Optimised for T5 lamps in terms of lighting technology.

Electrical equipment:

3-pin quick plug terminal, double cable entry. Electronic ballast (EVG).

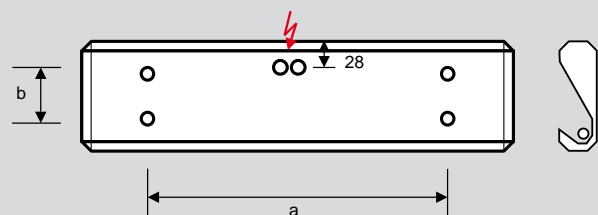
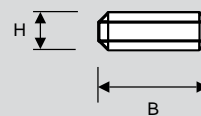
Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.

Installation:

For ceiling mounting, rope suspension.

AF 160 N



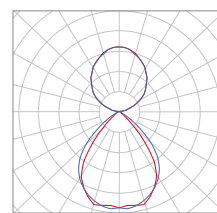
Accessories: page 136

Mounted louver luminaires
direct or direct/indirect light beam



AR 68 N, AR 168 N

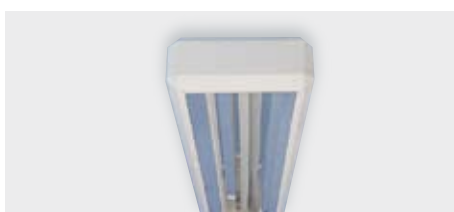
- BAP 60° parabolic specular louver, direct/indirect light beam (also available matt anodised)
- suitable for workplaces with monitors and those supporting monitors
- for ceiling mounting with rope suspension
- single light



Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
AR 68N 1X36 EVG	T8	G13	1280	200	60	760	94	3,5	2920254
AR 68N 1X58 EVG	T8	G13	1580	200	60	1220	94	5,0	2920258
AR 68N 2X36 EVG	T8	G13	1280	200	60	760	94	5,5	2920256
AR 68N 2X58 EVG	T8	G13	1580	200	60	1220	94	7,5	2920260
AR 168N 1x28	T5	G5	1230	175	60	760	64	3,5	2920424
AR 168N 1x35	T5	G5	1530	175	60	1220	64	4,0	2920426
AR 168N 1x49	T5	G5	1530	175	60	1220	64	4,0	2920427
AR 168N 1x54	T5	G5	1230	175	60	760	64	3,5	2920425
AR 168N 1x80	T5	G5	1530	175	60	1220	64	4,0	2920428
AR 168N 2x14	T5	G5	630	175	60	445	64	2,5	2920430
AR 168N 2x24	T5	G5	630	175	60	445	64	2,5	2920431
AR 168N 2x28	T5	G5	1230	175	60	760	64	4,5	2920432
AR 168N 2x35	T5	G5	1530	175	60	1220	64	4,5	2920434
AR 168N 2x49	T5	G5	1530	175	60	1220	64	4,5	2920435
AR 168N 2x54	T5	G5	1230	175	60	760	64	4,5	2920433
AR 168N 2x80	T5	G5	1530	175	60	1220	64	5,0	2920436

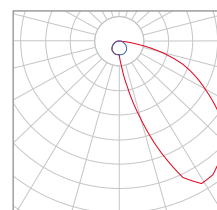


These lights are available for light strip mounting as start modules (LB-A) or middle modules (LB-M).
You can obtain separate data sheets on request.



AF 160 N

- matt anodised purest aluminium reflector with asymmetrical light distribution for the homogenous lighting of wall surfaces
- single light
- for ceiling mounting or rope suspension



Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			Length	Width	Height		
AF 160N 1X28	T5	G5	1230	175	60	3,0	2920310
AF 160N 1X35	T5	G5	1530	175	60	5,5	2920314
AF 160N 1X49	T5	G5	1530	175	60	5,5	2920306
AF 160N 1X54	T5	G5	1230	175	60	3,0	2920312
AF 160N 1X80	T5	G5	1530	175	60	5,5	2920308



These lights are available for light strip mounting as start modules (LB-A) or middle modules (LB-M).
You can obtain separate data sheets on request.

Mounted louver luminaires
for office and workplaces with monitors

Accessories



SY 60 Set

- Y-wire suspension, tool-free height adjustable up to a maximum of 1.5 m
- including mains connection cable

Model	Description	Article number
SY 60Set ws	Y-wire suspension set, white including 3-wire lead	1401002
SY 60Set DIM ws	Y-wire suspension set, white including 5-wire lead	1401004

Good light is important for both employees and customers. Kadem louver luminaires are also excellently suited for the all-round illumination of sales points.





Semi-recessed louver luminaires / Flat mounted lights

Office lighting / louver luminaires

Extremely flat, decorative and functional, these lights are perfectly suited for office lighting, workplaces with monitors and general lighting.

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting / louver luminaires

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Semi-recessed louver luminaires / Flat mounted lights

ER 117

**Semi-recessed louver luminaires with a visible height of just 40 mm.
The low construction height leaves plenty of room for ideas.**

Luminaire:

Premium quality powder-coated sheet steel, white (similar to RAL 9003).

Louver:

BAP 60° parabolic specular louver with reduced luminance, made of premium-quality mirror material.

Direct light distribution. Optimised for T5 lamps in terms of lighting technology.

Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.

Electronic ballast (EVG).

Special versions available, e.g. adjustable EVG 1-10 V, DALI.

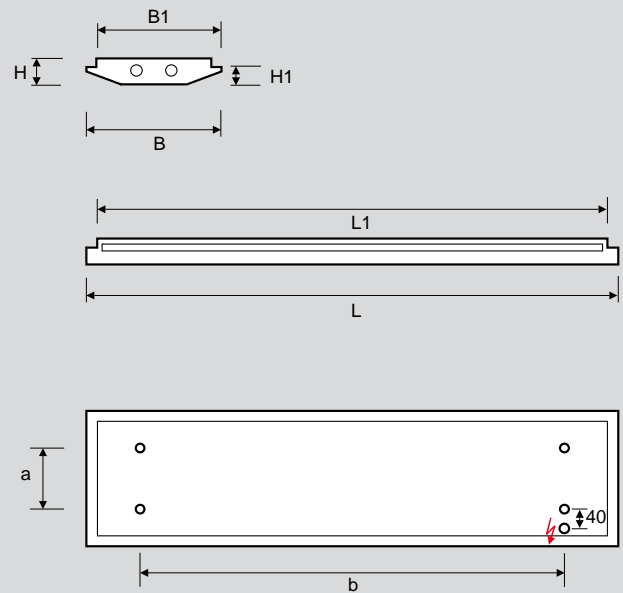
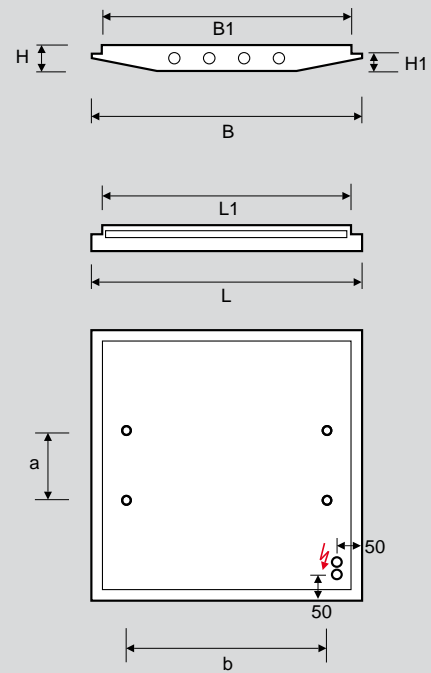
Safety lighting versions available.

Installation:

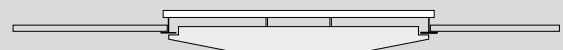
Partly recessed installation in ceilings with visible carrier profiles and in cut-out recess openings.

N.B.: Please order mounting brackets separately.

ER 117



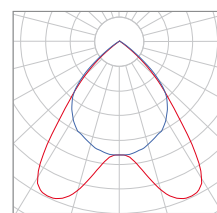
Please order mounting brackets separately.



Accessories: page 141

Semi-recessed louver luminaires /
Flat mounted lights**ER 117**

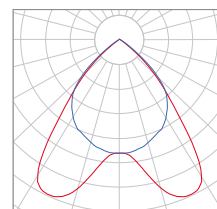
- BAP 60° parabolic specular louver, direct light beam
- parabolically shaped longitudinal reflectors and transverse lamellae made of high-gloss anodised purest aluminium
- glare-suppressed to DIN/EN, suitable for workplaces with monitors and those that support monitors
- also available matt anodised (on request)



Model	Lamp	Version	Dimensions in mm								Article number	
			Length	Width	Height	L1	B1	H	H1	a		b
ER 117 4x14	T5	G5	620	620	60	570	570	60	38	160	460	2620478
ER 117 4x24	T5	G5	620	620	60	570	570	60	38	160	460	2620479

**ER 117**

- BAP 60° parabolic specular louver, direct light beam
- parabolically shaped longitudinal reflectors and transverse lamellae made of high-gloss anodised purest aluminium
- glare-suppressed to DIN/EN, suitable for workplaces with monitors and those supporting monitors
- also available matt anodised (on request)



Model	Lamp	Version	Dimensions in mm								Article number	
			Length	Width	Height	L1	B1	H	H1	a		b
ER 117 2x28	T5	G5	1220	310	60	1175	263	60	38	140	973	2620461
ER 117 2x35	T5	G5	1520	310	60	1475	263	60	38	140	1273	2620480
ER 117 2x49	T5	G5	1520	310	60	1475	263	60	38	140	1273	2620475
ER 117 2x54	T5	G5	1220	310	60	1175	263	60	38	140	973	2620476
ER 117 2x80	T5	G5	1520	310	60	1475	263	60	38	140	1273	2620477

Accessories

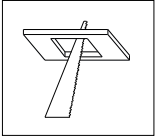
**ES 117**

- mounting bracket for partly recessed ceiling mounting

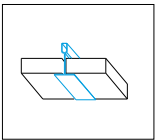
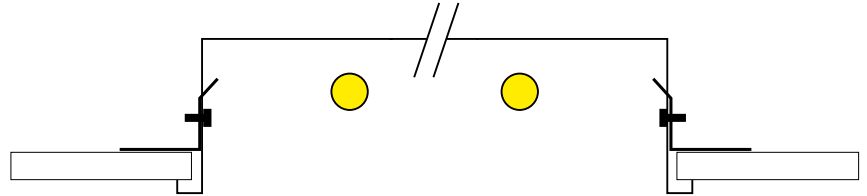
Model	Description	Article number
ES 117 1X28/35/49/54/80W Set	Mounting bracket for partly recessed ceiling mounting (2 pieces)	1620090
ES 117 2X28/35/49/54/80W Set	Mounting bracket for partly recessed ceiling mounting (2 pieces)	1620092
ES 117 4X14/24W	Mounting bracket for partly recessed ceiling mounting	1620094

Ceiling system

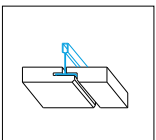
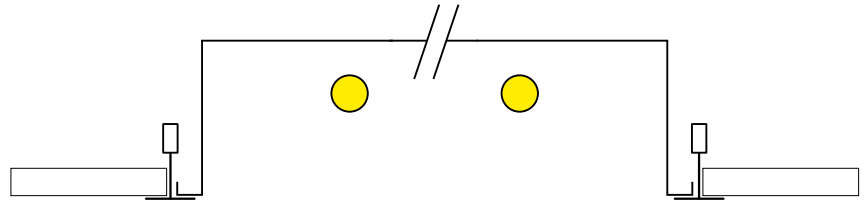
We manufacture lights for all common ceiling systems. Standard for module 625 and on request for module 600. Panel lights are available for modules 100 and 150. You can find the right lights on the following pages using the logos.



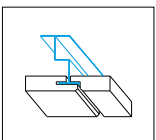
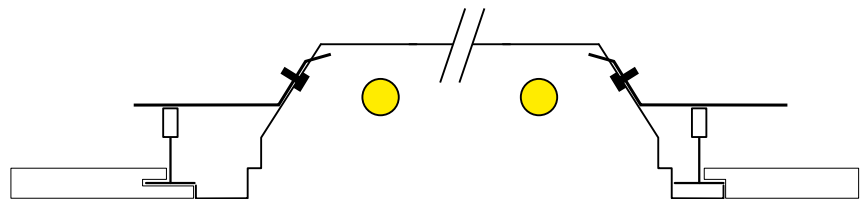
Recessed luminaires for cut-out ceilings



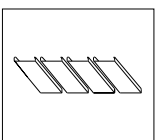
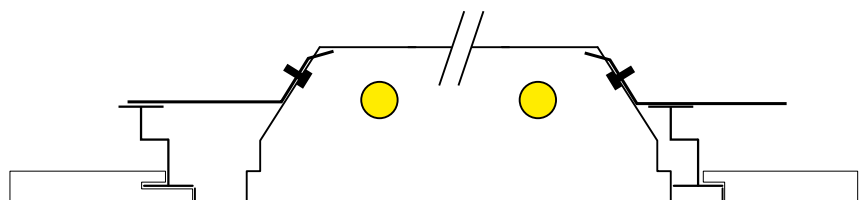
Recessed luminaires for ceilings with visible T-rail constructions



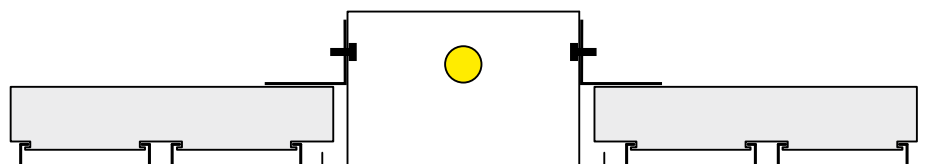
Recessed luminaires for concealed asymmetrical rail constructions



Recessed luminaires for concealed asymmetrical rail constructions



Recessed luminaires for panelled ceilings





Recessed luminaires, opal / prismatic

Louver luminaires

For ceilings with concealed or visible carrier profiles and cut-out recess openings.

These lights are universally suitable for general lighting.

LED panel light

LED panel, lay-in light, ultra-flat construction.
For ceilings with visible mounting rails.

EW 100 LED

Luminaire:

Extruded aluminium profile, silver anodised.

Optics:

Lamp cover with opal acrylic disc.
Lateral light coupling via LED.
Wide-beam light distribution.

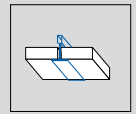
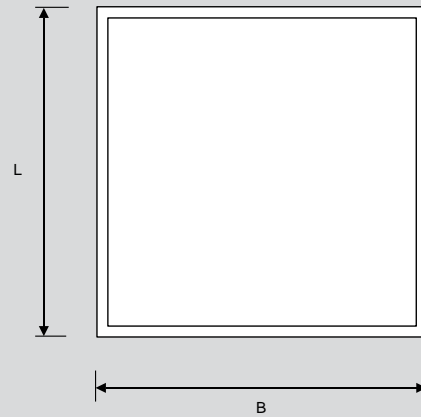
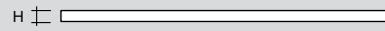
Electrical equipment:

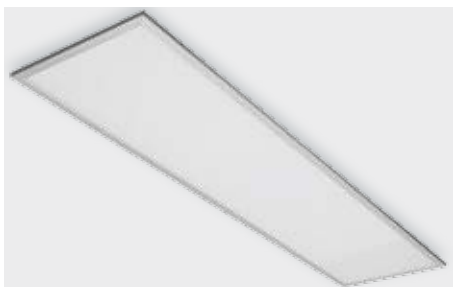
External LED driver, 24V, included.

Installation:

For insertion into visible mounting rails

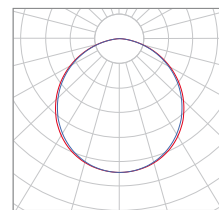
EW 100 LED





EW 100 LED

- lamp cover with opal acrylic disc, lateral light coupling via LED
- wide-beam light distribution
- extruded aluminium profile, silver anodised
- for insertion into visible mounting rails



Model	Lamp	CCT* k	Luminous flux lm	Dimensions in mm			Weight kg	Articel number
				Length	Width	Height		
EW 100 LED 1840/832	LED SMD 3528	3200	1840	621	621	14	5,1	2550050
EW 100 LED 2800/845	LED SMD 3528	4500	2800	621	621	14	5,1	2550052
EW 101 LED 1970/832	LED SMD 3528	3200	1970	1200	300	14	5,4	2550054
EW 101 LED 2260/845	LED SMD 3528	4500	2260	1200	300	14	5,4	2550056
EW 102 LED 700/832	LED SMD 3528	3200	700	300	300	14	1,5	2550058
EW 102 LED 840/845	LED SMD 3528	4500	840	300	300	14	1,5	2550060

*Correlated colour temperature

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting /
louver luminaires

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Recessed luminaires

Opal

Universal recessed luminaires for flush-mounting.
The lights are suitable for general lighting.

EW 80, EW 180**Luminaire:**

Galvanised white, powder-coated sheet steel (similar to RAL 9003).

Optics:

Lamp cover with opal acrylic disc.
Direct light distribution. Optimised for T5 (EW 180) or T8 (EW 80) lamps in terms of lighting technology.
Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:

Recessed mounting in ceilings with visible carrier profiles and in cut-out recess openings.
Installation kits are included with the lights as standard.

Special features:

Special versions for other ceiling systems and other dimensions available on request.

Recessed luminaires for flush-mounting. The lights are suitable for areas requiring special protection, such as large kitchens, hospitals or in the food industry.

EW 180 IP 54**Luminaire:**

Galvanised white, powder-coated sheet steel (similar to RAL 9003).

Optics:

Lamp cover with opal acrylic disc.
Direct light distribution. Optimised for T5 lamps in terms of lighting technology.
Fastened with screws in the frame, one-sided adjustable suspension.

Electrical equipment:

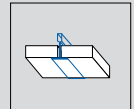
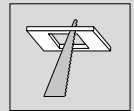
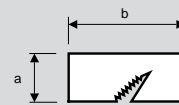
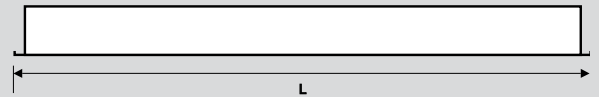
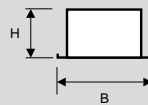
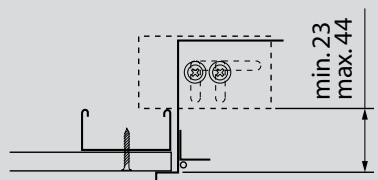
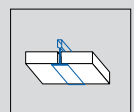
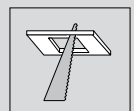
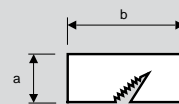
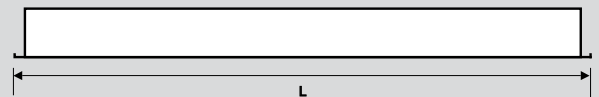
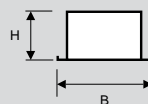
3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:

Recessed mounting in ceilings with visible carrier profiles and in cut-out recess openings.
Installation kits are included with the lights as standard.

Special features:

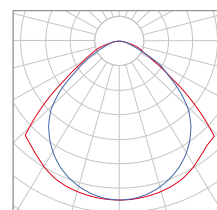
Special versions for other ceiling systems and other dimensions available on request.

EW 80, EW 180**EW 180 IP 54**



EW 80, EW 180

- lamp cover with opal acrylic disc
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T-8 or T-5 lamps in terms of lighting technology
- recessed installation in ceilings with visible carrier profiles or in cut-out recess openings
- installation kits included with the lights
- special versions for other ceiling systems and other dimensions available on request

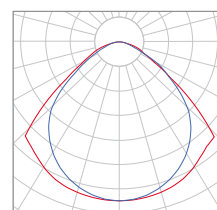


Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
EW 80 1x36 EVG	T8	G13	1245	188	109	170	1230	3,5	2921048
EW 80 1x58 EVG	T8	G13	1545	188	109	170	1530	5,5	2921056
EW 80 2x36 EVG	T8	G13	1245	310	92	295	1230	6,0	2921050
EW 80 2x58 EVG	T8	G13	1545	310	92	295	1530	7,5	2921058
EW 80 3x18 EVG	T8	G13	620	620	92	605	605	5,5	2921044
EW 80 3x36 EVG	T8	G13	1245	620	92	605	1230	9,5	2921052
EW 80 4x18 EVG	T8	G13	620	620	92	605	605	5,5	2921046
EW 80 4x36 EVG	T8	G13	1245	620	92	605	1230	10,5	2921054
EW 180 3x14	T5	G5	620	620	57	610	610	5	2921136
EW 180 4x14	T5	G5	620	620	57	610	610	5	2921140
EW 180 3x24	T5	G5	620	620	57	610	610	5	2921138
EW 180 4x24	T5	G5	620	620	57	610	610	5,5	2921142
EW 180 1x28	T5	G5	1245	150	60	135	1235	5	2921144
EW 180 2x28	T5	G5	1245	308	57	290	1235	6	2921148
EW 180 4x28	T5	G5	1245	620	57	610	1235	9	2921152
EW 180 1x35	T5	G5	1545	150	60	135	1530	6	2921156
EW 180 2x35	T5	G5	1545	308	57	290	1530	7	2921162
EW 180 1x49	T5	G5	1545	150	60	135	1530	6	2921158
EW 180 2x49	T5	G5	1545	308	57	290	1530	7	2921164
EW 180 1x54	T5	G5	1245	150	60	135	1235	5	2921146
EW 180 2x54	T5	G5	1245	308	57	290	1235	6	2921150
EW 180 4x54	T5	G5	1245	620	57	605	1235	9	2921154
EW 180 1x80	T5	G5	1545	150	60	135	1530	6	2921160
EW 180 2x80	T5	G5	1545	308	57	290	1530	7	2921166



EW 180 IP 54

- lamp cover with opal acrylic disc
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T5 lamps in terms of lighting technology
- recessed installation in ceilings with visible carrier profiles or in cut-out recess openings
- installation kits included with the lights
- special versions for other ceiling systems and other dimensions available on request



Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
EW 180 IP54 2x28/54	T5	G5	1245	310	97	295	1230	7,5	2921170
EW 180 IP54 2x35/49	T5	G5	1545	310	97	295	1530	9	2921172
EW 180 IP54 2x80	T5	G5	1545	310	97	295	1530	9	2921174
EW 180 IP54 4x14	T5	G5	620	620	97	605	605	7	2921176
EW 180 IP54 4x24	T5	G5	620	620	97	605	605	7	2921178



Attachment EW180IP54 in cut-out recess opening

Recessed luminaires Prismatic

Universal recessed luminaires for flush-mounting.
The lights are suitable for general lighting.

EP 80, EP 180

Luminaire:

Galvanised white, powder-coated sheet steel (similar to RAL 9003).

Optics:

Lamp cover with prismatic acrylic disc.
Direct light distribution. Optimised for T5 (EP 180) or T8 (EP 80) lamps in terms of lighting technology.
Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:

Recessed mounting in ceilings with visible carrier profiles and in cut-out recess openings.
Installation kits are included with the lights as standard.

Special features:

Special versions for other ceiling systems and other dimensions available on request.

Recessed luminaires for flush-mounting.
The lights are suitable for areas that require a higher level of protection, such as large kitchens, hospitals and in the food industry.

EP 180 IP 54

Luminaire:

Galvanised white, powder-coated sheet steel (similar to RAL 9003).

Optics:

Lamp cover with prismatic acrylic disc.
Direct light distribution. Optimised for T5 lamps in terms of lighting technology.
Fastened with screws in the frame, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:

Recessed mounting in ceilings with visible carrier profiles and in cut-out recess openings.
Installation kits are included with the lights as standard.

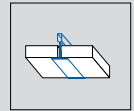
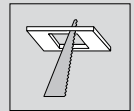
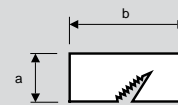
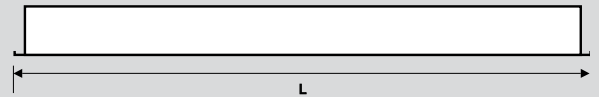
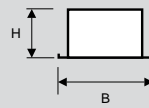
Special features:

Special versions for other ceiling systems and other dimensions available on request.

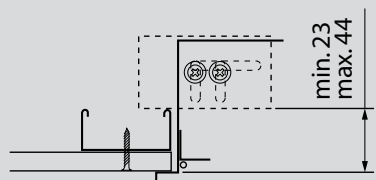
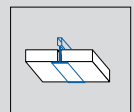
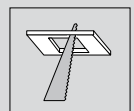
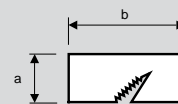
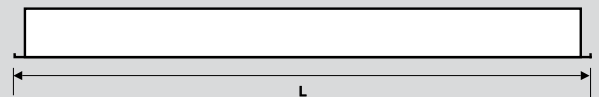
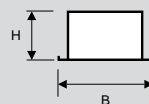


Attachment EP180IP54 in cut-out recess opening

EP 80, EP 180



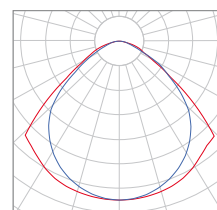
EP 180 IP 54





EP 80, EP 180

- light cover with prismatic acrylic disc
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T-8 or T-5 lamps in terms of lighting technology
- recessed installation in ceilings with visible carrier profiles or in cut-out recess openings
- installation kits included with the lights
- special versions for other ceiling systems and other dimensions available on request

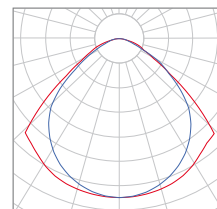


Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
EP 80 1x36 EVG	T8	G13	1245	188	109	170	1230	3,5	2921018
EP 80 1x58 EVG	T8	G13	1545	188	109	170	1530	5,5	2921026
EP 80 2x36 EVG	T8	G13	1245	310	92	295	1230	6,0	2921020
EP 80 2x58 EVG	T8	G13	1545	310	92	295	1530	7,5	2921028
EP 80 3x18 EVG	T8	G13	620	620	92	605	605	5,5	2921014
EP 80 3x36 EVG	T8	G13	1245	620	92	605	1230	9,5	2921022
EP 80 4x18 EVG	T8	G13	620	620	92	605	605	5,5	2921016
EP 80 4x36 EVG	T8	G13	1245	620	92	605	1230	10,5	2921024
EP 180 3x14	T5	G5	620	620	57	610	610	5	2921086
EP 180 4x14	T5	G5	620	620	57	610	610	5	2921090
EP 180 3x24	T5	G5	620	620	57	610	610	5	2921088
EP 180 4x24	T5	G5	620	620	57	610	610	5,5	2921092
EP 180 1x28	T5	G5	1245	150	60	135	1235	5	2921094
EP 180 2x28	T5	G5	1245	308	57	290	1235	6	2921098
EP 180 4x28	T5	G5	1245	620	57	610	1235	9	2921102
EP 180 1x35	T5	G5	1545	150	60	135	1530	6	2921106
EP 180 2x35	T5	G5	1545	308	57	290	1530	7	2921112
EP 180 1x49	T5	G5	1545	150	60	135	1530	6	2921108
EP 180 2x49	T5	G5	1545	308	57	290	1530	7	2921114
EP 180 1x54	T5	G5	1245	150	60	135	1235	5	2921096
EP 180 2x54	T5	G5	1245	308	57	290	1235	6	2921100
EP 180 4x54	T5	G5	1245	620	57	605	1235	9	2921104
EP 180 1x80	T5	G5	1545	150	60	135	1530	6	2921110
EP 180 2x80	T5	G5	1545	308	57	290	1530	7	2921118



EP 180 IP 54

- light cover with prismatic acrylic disc
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T-8 or T-5 lamps in terms of lighting technology
- recessed installation in ceilings with visible carrier profiles or in cut-out recess openings
- installation kits included with the lights
- special versions for other ceiling systems and other dimensions available on request



Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
EP 180 IP54 2x28/54	T5	G5	1245	310	97	295	1230	7,5	2921120
EP 180 IP54 2x35/49	T5	G5	1545	310	97	295	1530	9	2921122
EP 180 IP54 2x80	T5	G5	1545	310	97	295	1530	9	2921116
EP 180 IP54 4x14	T5	G5	620	620	97	605	605	7	2921124
EP 180 IP54 4x24	T5	G5	620	620	97	605	605	7	2921126

Recessed luminaires Opal / prismatic

Recessed luminaires for recessed mounting in ceilings with concealed mounting rail systems. The lights are suitable for general lighting.

EW 80-VT, EW 180-VT

Luminaire:

Galvanised, white powder-coated sheet steel (similar to RAL 9003).

Optics:

Lamp cover with opal acrylic disc.
Direct light distribution. Optimised for T-8 or T-5 lamps in terms of lighting technology.
Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:

Recessed mounting in ceilings with concealed mounting rail systems.
Installation kits are included with the lights as standard.

EP 80-VT, EP 180-VT

Luminaire:

Galvanised, white powder-coated sheet steel (similar to RAL 9003).

Optics:

Light cover with prismatic acrylic disc.
Direct light distribution. Optimised for T-8 or T-5 lamps in terms of lighting technology.
Fixed with a spring steel fastener, one-sided adjustable suspension.

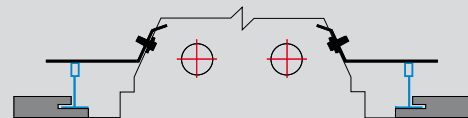
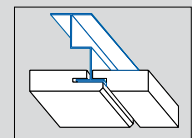
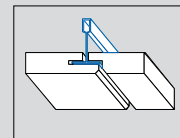
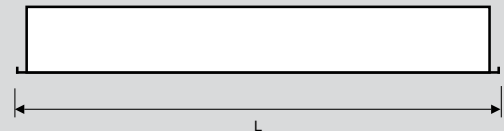
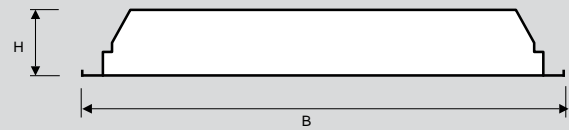
Electrical equipment:

3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:

Recessed mounting in ceilings with concealed mounting rail systems.
Installation kits are included with the lights as standard.

EW 80-VT, EP 80-VT

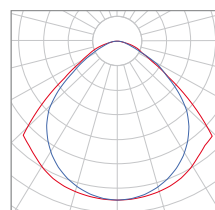


Recessed luminaires
Opal / prismatic



EW 80-VT, EW 180-VT

- lamp cover with opal acrylic disc
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T-8 or T-5 lamps in terms of lighting technology
- recessed mounting in ceilings with concealed mounting rail systems
- installation kits included with the lights

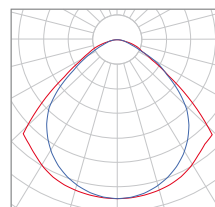


Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			Length	Width	Height		
EW 80-VT 3x18 EVG	T8	G13	624	624	85	6	2921600
EW 80-VT 4x18 EVG	T8	G13	624	624	85	6	2921602
EW 180-VT 3x14	T5	G5	624	624	85	6	2921604
EW 180-VT 3x24	T5	G5	624	624	85	6	2921606
EW 180-VT 4x14	T5	G5	624	624	85	6	2921608
EW 180-VT 4x24	T5	G5	624	624	85	6	2921614



EP 80-VT, EP 180-VT

- lamp cover with prismatic acrylic disc
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T-8 or T-5 lamps in terms of lighting technology
- recessed mounting in ceilings with concealed mounting rail systems
- installation kits included with the lights



Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			Length	Width	Height		
EP 80-VT 3x18 EVG	T8	G13	624	624	85	6	2921610
EP 80-VT 4x18 EVG	T8	G13	624	624	85	6	2921612
EP 180-VT 3x14	T5	G5	624	624	85	6	2921616
EP 180-VT 3x24	T5	G5	624	624	85	6	2921618
EP 180-VT 4x14	T5	G5	624	624	85	6	2921646
EP 180-VT 4x24	T5	G5	624	624	85	6	2921648

Project solution

Kandem louver luminaires – for the most different types of ceiling and all possible illumination requirements.



Architectural lighting
Coved and illuminated ceiling lighting
General lighting
Office lighting / louver luminaires
Luminaires for sports facilities
Industrial lighting
Damp-proof lights
Outdoor lighting
Appendix



Recessed luminaires "Mild Light"

Office lighting / louver luminaires

"Mild Light" for ceilings with visible carrier profiles or cut-out recess openings

Combines the benefits of direct lighting with the advantages of "mild light". Depending on the version used (louvers), the lights can be used decoratively for office lighting, workplaces with monitors and general lighting.

Recessed luminaires "Mild Light"

Recessed louver luminaires with surrounding rim.
Combines the benefits of direct lighting with the advantages of "mild light".
Depending on version used (louvers or microprisms) for office lighting, workplaces with monitors and general lightings.

EM 40 F

Luminaire:
Galvanised sheet steel, white, powder-coated (similar to RAL 9003).
The inner sides of the light reflect a diffuse amount of light.

Reflector/Louver:
Secondary perforated metal plate reflector with inserted opal foil.
Direct light distribution, combined with "mild light". Optimised for TC-L lamps in terms of lighting technology. Fixed with a spring steel fastener.

Electrical equipment:
3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:
Recessed mounting in ceilings with visible carrier profiles or in cut-out recess openings.
Installation kits included with the lights.

EM 147 F

Luminaire:
Galvanised sheet steel, white, powder-coated (similar to RAL 9003).
The inner sides of the light reflect a diffuse amount of light.

Reflector/Louver:
BAP 60° parabolic specular louver made of mirror material.
Direct light distribution, connected with "Mild Light". Optimised for T-5 lamps in terms of lighting technology. Fixed with a spring steel fastener.

Electrical equipment:
3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:
Recessed mounting in ceilings with visible carrier profiles and in cut-out recess openings.
Installation kits included with the lights.

EM 47 MP, EM 147 MP

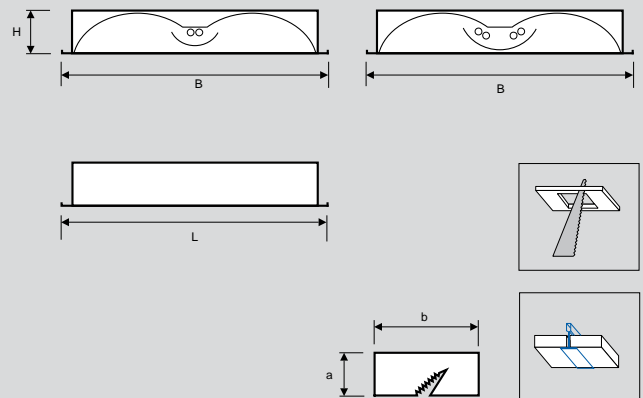
Luminaire:
Galvanised sheet steel, white, powder-coated (similar to RAL 9003).
The inner sides of the light reflect a diffuse amount of light.

Reflector/Louver:
BAP 60° microprism optics, direct light distribution, connected with "Mild Light". Optimised for T-5 or TC-L lamps in terms of lighting technology. Fixed with a spring steel fastener.

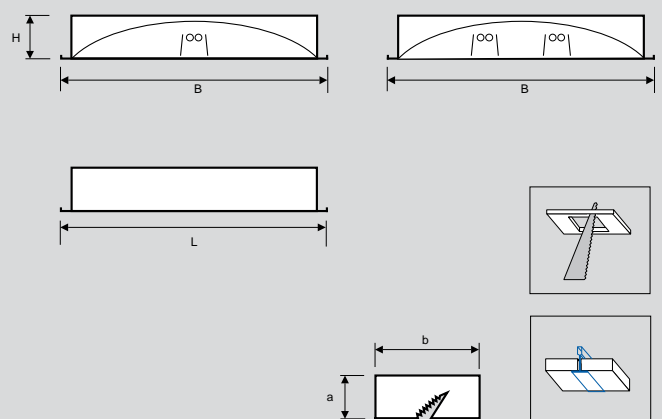
Electrical equipment:
3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:
Recessed mounting in ceilings with visible carrier profiles and in cut-out recess openings.
Installation kits included with the lights.

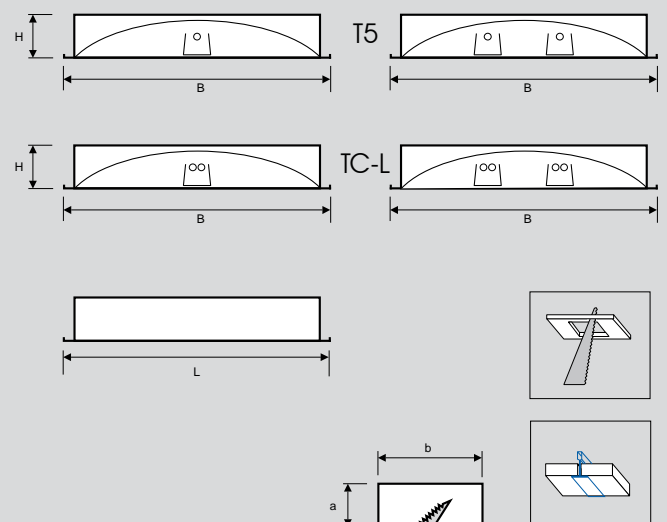
EM 40 F



EM 147 F

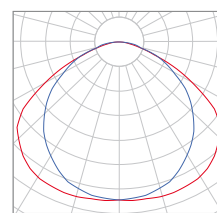


EM 47 MP, EM 147 MP



Recessed luminaires
"Mild Light"**EM 40 F**

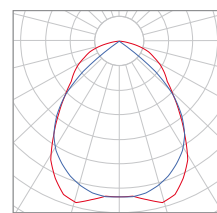
- secondary perforated metal plate reflector with inserted opal foil
- direct light beam ("mild light")
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for TC-L lamps in terms of lighting technology
- recessed installation in ceilings with visible carrier profiles or in cut-out recess openings
- installation kits included with the lights



Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
EM 40F 1x36	TC-L	2G11	622	622	100	580	580	2621006
EM 40F 1x40	TC-L	2G11	622	622	100	580	580	2621008
EM 40F 1x55	TC-L	2G11	622	622	100	580	580	2621010
EM 40F 2x36	TC-L	2G11	622	622	100	580	580	2621000
EM 40F 2x40	TC-L	2G11	622	622	100	580	580	2621002
EM 40F 2x55	TC-L	2G11	622	622	100	580	580	2621004

**EM 147 F**

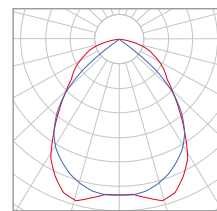
- BAP 60° parabolic specular louver matt made of mirror material
- direct light beam ("mild light")
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T5 lamps in terms of lighting technology
- recessed installation in ceilings with visible carrier profiles or in cut-out recess openings
- installation kits included with the lights



Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
EM 147F matt 2x14	T5	G5	622	622	100	580	580	2621024
EM 147F matt 2x24	T5	G5	622	622	100	580	580	2621026
EM 147F matt 4x14	T5	G5	622	622	100	580	580	2621028
EM 147F matt 4x24	T5	G5	622	622	100	580	580	2621030

**EM 47 MP, EM 147 MP**

- BAP 60° microprism optics
- direct light beam ("mild light")
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T5 or TC-L lamps in terms of lighting technology
- recessed installation in ceilings with visible carrier profiles or in cut-out recess openings
- installation kits included with the lights



Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
EM 47MP 1x40	TC-L	2G11	622	622	100	580	580	2621032
EM 47MP 1x55	TC-L	2G11	622	622	100	580	580	2621033
EM 47MP 2x40	TC-L	2G11	622	622	100	580	580	2621034
EM 47MP 2x55	TC-L	2G11	622	622	100	580	580	2621035
EM 147MP 1x54	T5	G5	622	1222	100	580	1180	2621036
EM 147MP 2x54	T5	G5	622	1222	100	580	1180	2621037

Appendix

Outdoor lighting

Damp-proof lights

Industrial lighting

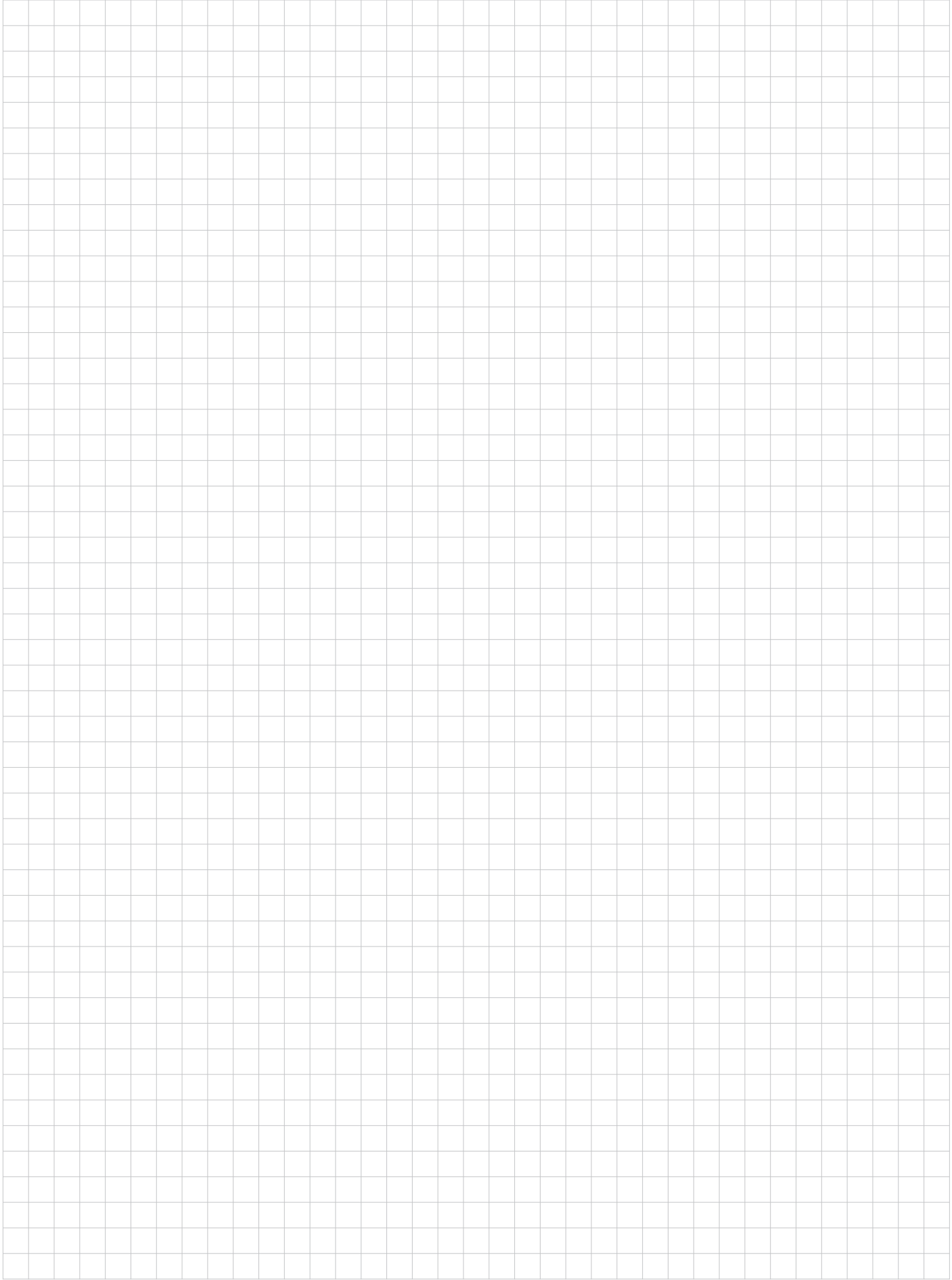
Luminaires for sports facilities

**Office lighting /
louver luminaires**

General lighting

Coved and illuminated ceiling lighting

Architectural lighting





Recessed louver luminaires

Office lighting / louver luminaires

For ceilings with concealed or visible carrier profiles or cut-out recess openings.

Completely recessed into the ceiling, with a decorative surrounding rim, the lights are suitable for office lighting, workplaces with monitors and general lighting.

Recessed louver luminaires

ER 157 N

Recessed louver luminaires with surrounding rim.

Luminaire:

Galvanised sheet steel.
Surrounding rim, white, powder-coated (similar to RAL 9003).

Louver:

BAP 60° parabolic specular louver with reduced luminance made of premium-quality mirror material.
Direct light distribution. Optimised for T5 lamps in terms of lighting technology.
Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:

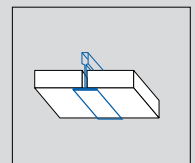
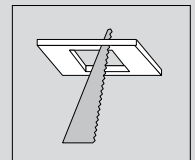
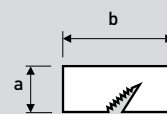
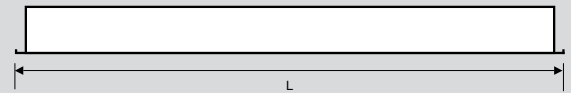
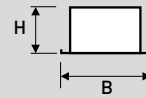
Recessed mounting in ceilings with visible carrier profiles module 625 and in cut-out recess openings (module 600 on request).
Installation kits included in the 1/2-lamp version, please order separately for 3/4-lamp version.

Fastening kit for plasterboard ceiling 3/4-lamp version

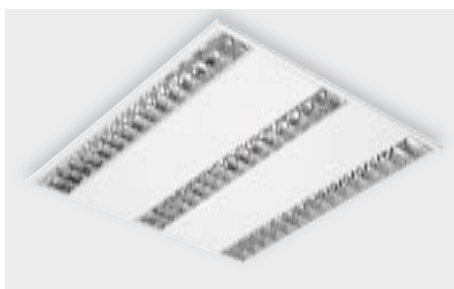
ES 157N Art. 1620098



ER 157 N

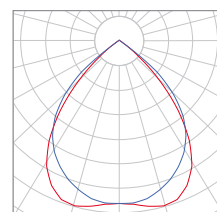


Recessed louver luminaires

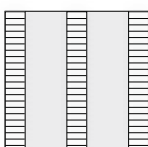


ER 157 N

- BAP 60° specular louver, direct light beam
- parabolically shaped longitudinal reflectors and transverse lamellae made of high-gloss anodised purest aluminium
- glare-suppressed to DIN/EN, suitable for workplaces with monitors and those supporting monitors

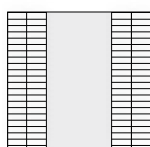


Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
ER 157N 1x28/54	T5	G5	1245	310	78	175	1212	2420000
ER 157N 1x35/49	T5	G5	1545	310	78	175	1512	2420002
ER 157N 1x80	T5	G5	1545	310	78	175	1512	2420004
ER 157N 2x28/54	T5	G5	1245	310	78	175	1212	2420006
ER 157N 2x35/49	T5	G5	1545	310	78	175	1512	2420008
ER 157N 2x80	T5	G5	1545	310	78	175	1512	2420010
ER 157N ws 32G 3x14	T5	G5	622	622	78	580	580	2420012
ER 157N ws 32G 3x24	T5	G5	622	622	78	580	580	2420014
ER 157N si 32G 3x14	T5	G5	622	622	78	580	580	2420016
ER 157N si 32G 3x24	T5	G5	622	622	78	580	580	2420018
ER 157N ws 41G 4x14	T5	G5	622	622	78	580	580	2420036
ER 157N ws 41G 4x24	T5	G5	622	622	78	580	580	2420038
ER 157N si 41G 4x14	T5	G5	622	622	78	580	580	2420040
ER 157N si 41G 4x24	T5	G5	622	622	78	580	580	2420042
ER 157N ws 43G 4x14	T5	G5	622	622	78	580	580	2420044
ER 157N ws 43G 4x24	T5	G5	622	622	78	580	580	2420046
ER 157N si 43G 4x14	T5	G5	622	622	78	580	580	2420048
ER 157N si 43G 4x24	T5	G5	622	622	78	580	580	2420050
ER 157N ws 43L 4x14	T5	G5	622	622	60	580	580	2420052
ER 157N ws 43L 4x24	T5	G5	622	622	60	580	580	2420054
ER 157N si 43L 4x14	T5	G5	622	622	60	580	580	2420056
ER 157N si 43L 4x24	T5	G5	622	622	60	580	580	2420058



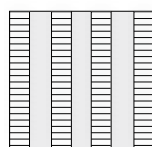
ER 157N xx 32 x ...

3 = number of louvers
2 = number of cover plates
ws = white
si = silver
G = closed
L = perforated plate



ER 157N xx 41 x ...

4 = number of louvers
1 = number of cover plates
ws = white
si = silver
G = closed
L = perforated plate



ER 157N xx 43 x ...

4 = number of louvers
3 = number of cover plates
ws = white
si = silver
G = closed
L = perforated plate

* In preparation

Accessories

Model	Description	Article number
ES 157N	Installation kit for 3/4-lamp lights, always order separately	1620098

Recessed louver luminaires

Narrow universal recessed louver luminaires for completely recessed mounting. The lights are suitable for general lighting, workplaces with monitors and those supporting monitors.

ER 157 S

Luminaire:

Galvanised white, powder-coated sheet steel (similar to RAL 9003).

Louver:

Specular louver, BAP 60°, parabolic specular louver made of high-gloss anodised purest aluminium.

Direct light distribution, optimised for T5 lamps in terms of lighting technology.

Fixed with a spring steel fastener, one-sided adjustable suspension.

Matt louver and head mirror possible.

Electrical equipment:

3-pin quick plug terminal.

Electronic ballast (EVG).

Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.

Installation:

Recessed mounting in ceilings with visible carrier profiles and in cut-out recess openings. Installation kits are included with the lights as standard.

ER 157 S LB

Strip light**Luminaire:**

Galvanised white, powder-coated sheet steel (similar to RAL 9003).

Louver:

Specular louver, BAP 60°, parabolic specular louver made of high-gloss anodised purest aluminium.

Direct light distribution, optimised for T5 lamps in terms of lighting technology.

Fixed with a spring steel fastener, one-sided adjustable suspension.

Matt louver and head mirror possible.

Electrical equipment:

3-pin quick plug terminal.

Electronic ballast (EVG).

Including feed-through wiring with start and middle modules.

Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.

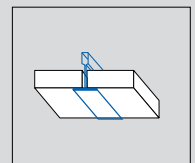
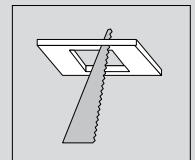
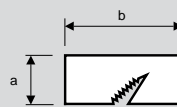
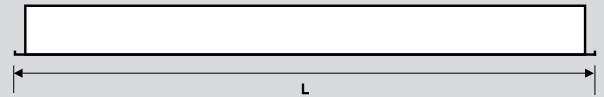
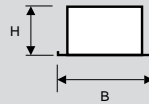
Installation:

Recessed mounting in ceilings with visible carrier profiles and in cut-out recess openings. Installation kits are included with the lights as standard.



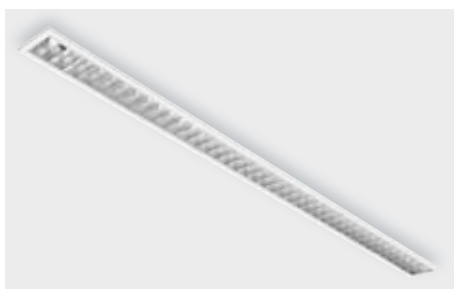
Also available with opal cover on request.

ER 157 S



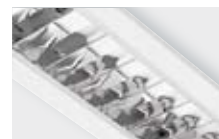
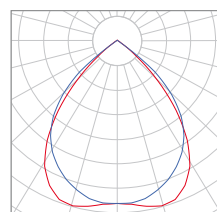
Connecting terminal

Recessed louver luminaires



ER 157 S

- BAP 60° specular louver, direct light beam
- parabolically shaped longitudinal reflectors and transverse lamellae made of high-gloss anodised purest aluminium
- glare-suppressed to DIN/EN, suitable for workplaces with monitors and those supporting monitors
- including installation kit



Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
ER 157S 1x28	T5	G5	1200	112	70	100	1180	2420060
ER 157S 1x35	T5	G5	1500	112	70	100	1480	2420062
ER 157S 1x49	T5	G5	1500	112	70	100	1480	2420064
ER 157S 1x54	T5	G5	1200	112	70	100	1180	2420066
ER 157S 1x80	T5	G5	1500	112	70	100	1480	2420068
2-lamp versions on request								
ER 157S LB-A 1x28	T5	G5	1185	112	70	100	1175	2420074
ER 157S LB-A 1x35	T5	G5	1485	112	70	100	1475	2420076
ER 157S LB-A 1x49	T5	G5	1485	112	70	100	1475	2420078
ER 157S LB-A 1x54	T5	G5	1185	112	70	100	1175	2420080
ER 157S LB-A 1x80	T5	G5	1485	112	70	100	1475	2420082
ER 157S LB-M 1x28	T5	G5	1170	112	70	100	1170	2420084
ER 157S LB-M 1x35	T5	G5	1470	112	70	100	1470	2420086
ER 157S LB-M 1x49	T5	G5	1470	112	70	100	1470	2420088
ER 157S LB-M 1x54	T5	G5	1170	112	70	100	1170	2420090
ER 157S LB-M 1x80	T5	G5	1470	112	70	100	1470	2420092
ER 157S LB-E 1x28	T5	G5	1185	112	70	100	1175	2420094
ER 157S LB-E 1x35	T5	G5	1485	112	70	100	1475	2420096
ER 157S LB-E 1x49	T5	G5	1485	112	70	100	1475	2420098
ER 157S LB-E 1x54	T5	G5	1185	112	70	100	1175	2420106
ER 157S LB-E 1x80	T5	G5	1485	112	70	100	1475	2420108
2-lamp versions on request								



ER 157 S LB-A: Start module



ER 157 S LB-M: Middle module



ER 157 S LB-E: End module

Inserted / Recessed louver luminaires

Universal recessed louver luminaires for flush-mounting.

The lights are suitable for general lighting, workplaces with monitors and those supporting monitors.

ER 71 ECO**Luminaire:**

Sheet steel, white coated (similar to RAL 9003).

Optics:

V-reflector and transverse lamellae white, powder coated.
Direct light distribution. Optimised for T8 lamps in terms of lighting technology.
Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal.
Electromagnetic ballast (WVG), electronic ballast (EVG).

Installation:

Recessed mounting in ceilings with visible carrier profiles, module 625, and in cut-out recess openings (module 600 on request).
Please order installation kits separately.

ER 74 ECO**Luminaire:**

Sheet steel, white coated (similar to RAL 9003).

Optics:

V-mirror reflector made of high-gloss pure aluminium, transverse lamellae aluminium profiled.
Direct light distribution. Optimised for T8 lamps in terms of lighting technology.
Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal.
Electromagnetic ballast (WVG), electronic ballast (EVG).

Installation:

Recessed mounting in ceilings with visible carrier profiles, module 625, and in cut-out recess openings (module 600 on request).
Please order installation kits separately.

ER 77 ECO**Luminaire:**

Sheet steel, white coated (similar to RAL 9003).

Optics:

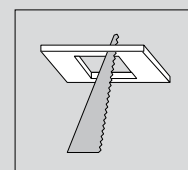
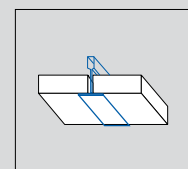
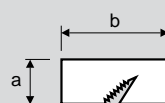
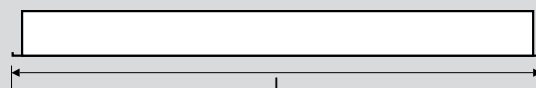
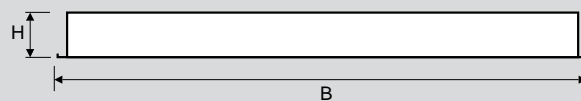
BAP 60° specular louver, parabolically shaped longitudinal reflectors and transverse lamellae made of high-gloss anodised purest aluminium, glare-suppressed to DIN/EN, suitable for workplaces with monitors and those supporting monitors.
Direct light distribution. Optimised for T8 lamps in terms of lighting technology.
Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal.
Electromagnetic ballast (WVG), electronic ballast (EVG).

Installation:

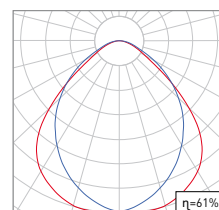
Recessed mounting in ceilings with visible carrier profiles, module 625, and in cut-out recess openings (module 600 on request).
Please order installation kits separately.

ER 71 / 74 / 77 ECO

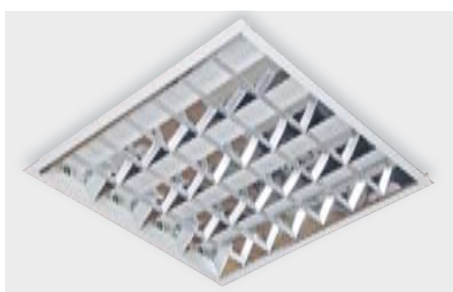


ER 71 ECO

- V-reflector and transverse lamellae white, powder coated
- recessed installation in ceilings with visible carrier profiles module 625 and in cut-out recess openings
- order installation kits separately

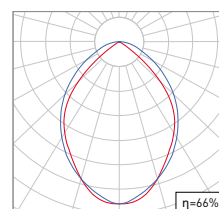


Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
ER71 ECO 4X18 EVG	T8	G13	622	622	92	585	605	2620770
ER71 ECO 4X18 WVG / compensated	T8	G13	622	622	92	585	605	1620770



ER 74 ECO

- V-mirror reflector made of high-gloss pure aluminium, transverse lamellae aluminium profiled
- recessed installation in ceilings with visible carrier profiles, module 625, and in cut-out recess openings
- order installation kits separately

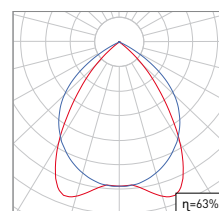


Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
ER74 ECO 4X18 EVG	T8	G13	622	622	92	585	605	2620772
ER74 ECO 4X18 WVG / compensated	T8	G13	622	622	92	585	605	1620772



ER 77 ECO

- BAP 60° specular louver, parabolically shaped longitudinal reflectors and transverse lamellae made of high-gloss anodised pure aluminium, glare-suppressed to DIN/EN, suitable for workplaces with monitors and those supporting monitors
- recessed installation in ceilings with visible carrier profiles, module 625, and in cut-out recess openings
- order installation kits separately



Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
ER77 ECO 4X18 EVG	T8	G13	622	622	92	585	605	2620774
ER77 ECO 4X18 WVG / compensated	T8	G13	622	622	92	585	605	1620774

Accessories

Model	Description	Article number
ES 70 ECO	Fastening set for plasterboard ceiling, series ER71/74/77 ECO	1620096

Inserted louver luminaires

Inserted louver luminaires for ceilings with visible carrier profiles.
Different louvers make the lights suitable for office lighting, workplaces with monitors and general lighting.

ER 71 N, ER 74 N, ER 77 N RAPID

Luminaire:

Sheet steel, white coated (similar to RAL 9016).

Louver:

Different louvers: white louver, specular louver, BAP 60° parabolic specular louver made of high-gloss anodised purest aluminium. Other versions available on request.

Direct light distribution. Optimised for T8 lamps in terms of lighting technology.

Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

5-pole quick plug terminal (accessible from outside).

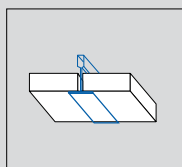
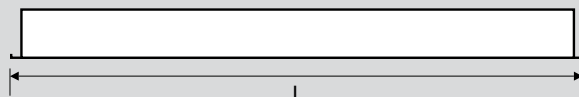
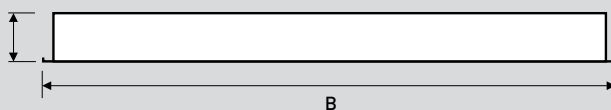
Electromagnetic ballast (VVG) inductive, compensated on request.

Electronic ballast (EVG).

Installation:

For insertion into ceilings with visible carrier profiles, module 625 (module 600 on request).

ER 71 / 74 / 77 N RAPID

**Quick installation:**

1 View of light from above



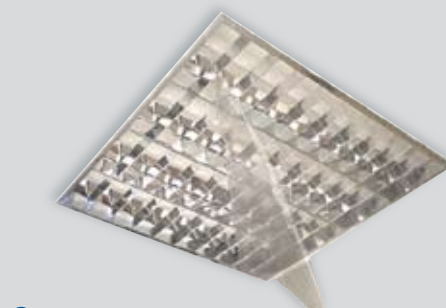
2 Open clamping cover



3 Insert the power supply cord into the clamp



4 Close clamping cover

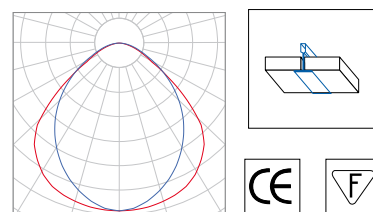


5 Then remove protective foil.
Done!

Inserted louver luminaires

**ER 71 N RAPID**

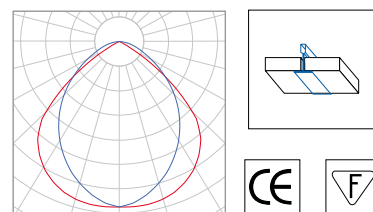
- louver with stepped reflector and transverse lamellae made of white, powder-coated aluminium, direct light beam
- for insertion into ceilings with visible carrier profiles module 625
- easy-to-install system light
- including illuminant
- connecting terminal accessible from outside



Model	Lamp	Version	AG	Dimensions in mm			Article number
				Length	Width	Height	
ER 71N RAPID 4x18 EVG	T8	G13	EVG	620	620	90	2527060
ER 71N RAPID 4x18 VVG	T8	G13	VVG	620	620	90	1527060

**ER 74 N RAPID**

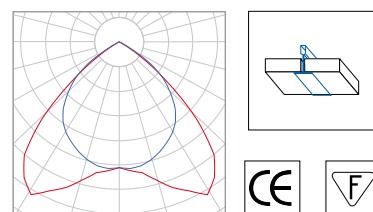
- stepped mirror reflector made of high-gloss pure aluminium, transverse lamellae aluminium profiled
- for insertion into ceilings with visible carrier profiles, module 625
- easy-to-install system light
- including illuminant
- connecting terminal accessible from outside



Model	Lamp	Version	AG	Dimensions in mm			Article number
				Length	Width	Height	
ER 74N RAPID 4x18 EVG	T8	G13	EVG	620	620	90	2527062
ER 74N RAPID 4x18 VVG	T8	G13	VVG	620	620	90	1527062

**ER 77 N RAPID**

- BAP 60° specular louver, parabolically shaped longitudinal reflectors and transverse lamellae made of high-gloss anodised purest aluminium
- glare-suppressed to DIN/EN, suitable for workplaces with monitors and those supporting monitors
- for insertion into ceilings with visible carrier profiles, module 625
- easy-to-install system light
- including illuminant
- connecting terminal accessible from outside



Model	Lamp	Version	AG	Dimensions in mm			Article number
				Length	Width	Height	
ER 77N RAPID 4x18 EVG	T8	G13	EVG	620	620	90	2527064
ER 77N RAPID 4x18 VVG	T8	G13	VVG	620	620	90	1527064

Recessed louver luminaires

Universal recessed louver luminaires for flush-mounting.
The lights are suitable for general lighting.

ER 181**Luminaire:**

Galvanised white, powder-coated sheet steel (similar to RAL 9003).

Louver:

V-reflector and transverse lamellae made of white, powder-coated aluminium.
Direct light distribution, optimised for T5 lamps in terms of lighting technology.
Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:

Recessed mounting in ceilings with visible carrier profiles and in cut-out recess openings.
Installation kits are included with the lights as standard.

ER 184**Luminaire:**

Galvanised white, powder-coated sheet steel (similar to RAL 9003).

Louver:

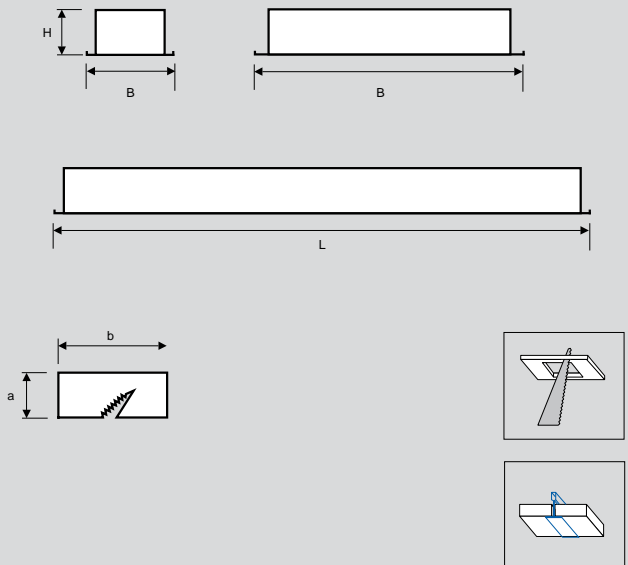
V-mirror reflector made of high-gloss pure aluminium, transverse lamellae matt aluminium profiled.
Direct light distribution, optimised for T5 lamps in terms of lighting technology.
Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

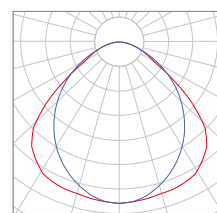
Installation:

Recessed mounting in ceilings with visible carrier profiles and in cut-out recess openings.
Installation kits are included with the lights as standard.

ER 181, ER 184

**ER 181**

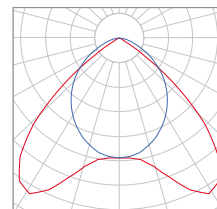
- V-reflector and transverse lamellae made of white, powder coated aluminium
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T5 lamps in terms of lighting technology
- recessed installation in ceilings with visible carrier profiles or in cut-out recess openings
- installation kits included with the lights



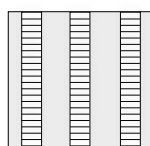
Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
ER 181 1x14	T5	G5	620	150	60	135	610	2921620
ER 181 1x24	T5	G5	620	150	60	135	610	2921622
ER 181 1x28	T5	G5	1245	150	60	135	1235	2921624
ER 181 1x54	T5	G5	1245	150	60	135	1235	2921626
ER 181 2x14 21G	T5	G5	620	308	60	290	610	2921628
ER 181 2x24 21G	T5	G5	620	308	60	290	610	2921630
ER 181 2x28 21G	T5	G5	1245	308	60	290	1235	2921632
ER 181 2x54 21G	T5	G5	1245	308	60	290	1235	2921634
ER 181 3x14 34G	T5	G5	620	620	60	610	610	2921636
ER 181 3x24 34G	T5	G5	620	620	60	610	610	2921638
ER 181 4x14 41G	T5	G5	620	620	60	610	610	2921640
ER 181 4x24 41G	T5	G5	620	620	60	610	610	2921642
ER 181 4x14 45G	T5	G5	620	620	60	610	610	2921644
ER 181 4x24 45G	T5	G5	620	620	60	610	610	2921646

**ER 184**

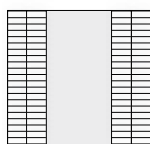
- V-mirror reflector made of high-gloss pure aluminium, transverse lamellae matt aluminium profiled
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T5 lamps in terms of lighting technology
- recessed installation in ceilings with visible carrier profiles or in cut-out recess openings
- installation kits included with the lights



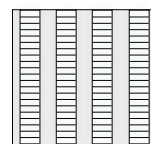
Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
ER 184 1x14	T5	G5	620	150	60	135	610	2921650
ER 184 1x24	T5	G5	620	150	60	135	610	2921652
ER 184 1x28	T5	G5	1245	150	60	135	1235	2921654
ER 184 1x54	T5	G5	1245	150	60	135	1235	2921656
ER 184 2x14 21G	T5	G5	620	308	60	290	610	2921658
ER 184 2x24 21G	T5	G5	620	308	60	290	610	2921660
ER 184 2x28 21G	T5	G5	1245	308	60	290	1235	2921662
ER 184 2x54 21G	T5	G5	1245	308	60	290	1235	2921664
ER 184 3x14 34G	T5	G5	620	620	60	610	610	2921666
ER 184 3x24 34G	T5	G5	620	620	60	610	610	2921668
ER 184 4x14 41G	T5	G5	620	620	60	610	610	2921670
ER 184 4x24 41G	T5	G5	620	620	60	610	610	2921672
ER 184 4x14 45G	T5	G5	620	620	60	610	610	2921674
ER 184 4x24 45G	T5	G5	620	620	60	610	610	2921676



ER 181/184/187 **34G**
3 = number of louvers
4 = number of cover plates
G = closed



ER 181/184/187 **41G**
4 = number of louvers
1 = number of cover plates
G = closed



ER 181/184/187 **45G**
4 = number of louvers
5 = number of cover plates
G = closed

Recessed louver luminaires

Universal recessed louver luminaires for flush-mounting.

The lights are suitable for general lighting, workplaces with monitors and those supporting monitors.

ER 187**Luminaire:**

Galvanised white, powder-coated sheet steel (similar to RAL 9003).

Louvers:

BAP 60°, parabolic specular louver made of high-gloss anodised purest aluminium.

Direct light distribution, optimised for T5 lamps in terms of lighting technology.

Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.

Electronic ballast (EVG).

Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.

Installation:

Recessed mounting in ceilings with visible carrier profiles and in cut-out recess openings. Installation kits are included with the lights as standard.

EF 180**Luminaire:**

Galvanised white, powder-coated sheet steel (similar to RAL 9003).

Optics:

Matt anodised purest aluminium reflector with asymmetrical light distribution for the homogenous lighting of wall surfaces.

Direct light distribution. Optimised for T5 lamps in terms of lighting technology.

Electrical equipment:

3-pin quick plug terminal, double cable entry.

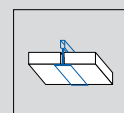
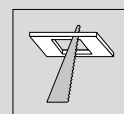
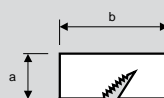
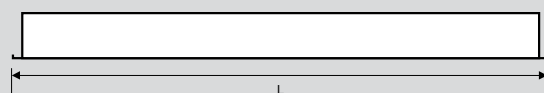
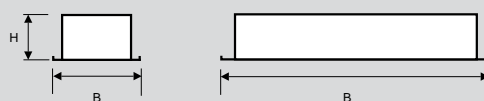
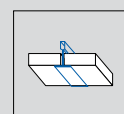
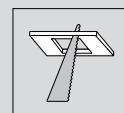
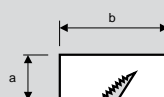
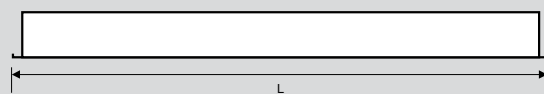
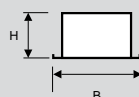
Electronic ballast (EVG).

Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.

Installation:

Recessed mounting in ceilings with visible carrier profiles and in cut-out recess openings. Installation kits are included with the lights as standard.

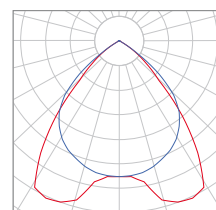
ER 187**EF 180**

Recessed louver luminaires

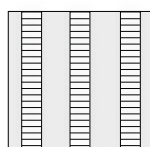


ER 187

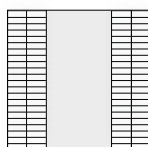
- BAP 60° parabolic specular louver made of high-gloss anodised purest aluminium
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T5 lamps in terms of lighting technology
- recessed installation in ceilings with visible carrier profiles or in cut-out recess openings
- installation kits included with the lights



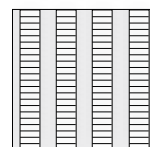
Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
ER 187 1x14	T5	G5	620	150	60	135	610	2921680
ER 187 1x24	T5	G5	620	150	60	135	610	2921682
ER 187 1x28	T5	G5	1245	150	60	135	1235	2921684
ER 187 1x54	T5	G5	1245	150	60	135	1235	2921686
ER 187 2x14 21G	T5	G5	620	308	60	290	610	2921688
ER 187 2x24 21G	T5	G5	620	308	60	290	610	2921690
ER 187 2x28 21G	T5	G5	1245	308	60	290	1235	2921692
ER 187 2x54 21G	T5	G5	1245	308	60	290	1235	2921694
ER 187 3x14 34G	T5	G5	620	620	60	610	610	2921696
ER 187 3x24 34G	T5	G5	620	620	60	610	610	2921698
ER 187 4x14 41G	T5	G5	620	620	60	610	610	2921700
ER 187 4x24 41G	T5	G5	620	620	60	610	610	2921702
ER 187 4x14 45G	T5	G5	620	620	60	610	610	2921704
ER 187 4x24 45G	T5	G5	620	620	60	610	610	2921706



ER 181/184/187 34G
3 = number of louvers
4 = number of cover plates
G = closed



ER 181/184/187 41G
4 = number of louvers
1 = number of cover plates
G = closed

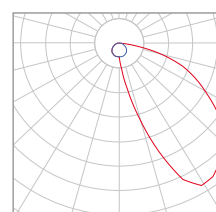


ER 181/184/187 45G
4 = number of louvers
5 = number of cover plates
G = closed



EF 180

- matt anodised, purest aluminium reflector with asymmetrical light distribution for the homogenous illumination of wall surfaces
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T5 lamps in terms of lighting technology
- recessed installation in ceilings with visible carrier profiles or in cut-out recess openings
- installation kits included with the lights



Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
EF 180 1x14	T5	G5	620	188	85	170	605	2921710
EF 180 1x24	T5	G5	620	188	85	170	605	2921712
EF 180 1x28	T5	G5	1250	188	85	170	1235	2921714
EF 180 1x54	T5	G5	1250	188	85	170	1235	2921716
EF 180 1x35	T5	G5	1545	188	85	170	1535	2921718
EF 180 1x49	T5	G5	1545	188	85	170	1535	2921720
EF 180 1x80	T5	G5	1545	188	85	170	1535	2921722

Recessed louver luminaires

Universal recessed louver luminaires for flush-mounting.

The lights are suitable for general lighting and for use in training centres.

ER 81**Luminaire:**

Galvanised white, powder-coated sheet steel (similar to RAL 9003).

Louwer:

V-reflector and transverse lamellae made of white, powder coated aluminium.

Direct light distribution, optimised for T8 lamps in terms of lighting technology.

Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.

Electronic ballast (EVG).

Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.

Installation:

Recessed mounting in ceilings with visible carrier profiles and in cut-out recess openings. Installation kits are included with the lights as standard.

Special features:

Special versions for other ceiling systems and other dimensions available on request.

ER 84**Luminaire:**

Galvanised white, powder-coated sheet steel (similar to RAL 9003).

Louwer:

V-mirror reflector made of high-gloss pure aluminium, transverse lamellae matt aluminium profiled.

Direct light distribution, optimised for T8 lamps in terms of lighting technology.

Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.

Electronic ballast (EVG).

Special versions available, e.g. adjustable EVG 1-10 V, DALI.

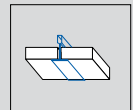
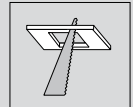
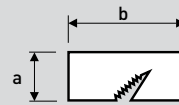
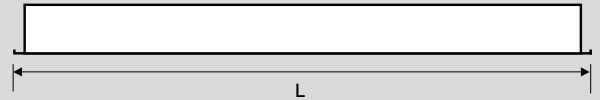
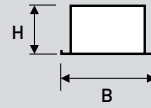
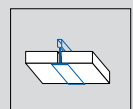
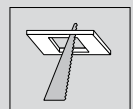
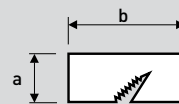
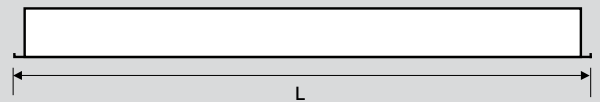
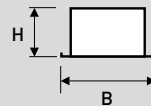
Safety lighting versions available.

Installation:

Recessed mounting in ceilings with visible carrier profiles and in cut-out recess openings. Installation kits are included with the lights as standard.

Special features:

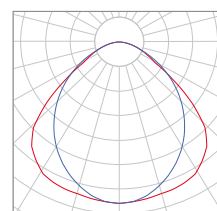
Special versions for other ceiling systems and other dimensions available on request.

ER 81**ER 84**



ER 81

- V-reflector and transverse lamellae made of white, powder coated aluminium
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T8 lamps in terms of lighting technology
- recessed installation in ceilings with visible carrier profiles or in cut-out recess openings
- installation kits included with the lights
- special versions for other ceiling systems and other dimensions available on request

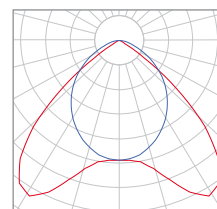


Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
ER 81 1x18 EVG	T8	G13	620	188	109	170	605	3,0	2920900
ER 81 1x36 EVG	T8	G13	1245	188	109	170	1230	4,0	2920908
ER 81 1x58 EVG	T8	G13	1545	188	109	170	1530	6,0	2920916
ER 81 2x18 EVG	T8	G13	620	310	92	290	605	3,5	2920902
ER 81 2x36 EVG	T8	G13	1245	310	92	290	1230	6,5	2920910
ER 81 2x58 EVG	T8	G13	1545	310	92	290	1530	8,0	2920918
ER 81 3x18 EVG	T8	G13	620	620	92	605	605	6,0	2920904
ER 81 3x36 EVG	T8	G13	1245	620	92	605	1230	10,0	2920912
ER 81 3x58 EVG	T8	G13	1545	620	92	605	1530	13,0	2920920
ER 81 4x18 EVG	T8	G13	620	620	92	605	605	6,0	2920906
ER 81 4x36 EVG	T8	G13	1245	620	92	605	1230	11,0	2920914
ER 81 4x58 EVG	T8	G13	1545	620	92	605	1530	14,0	2920922



ER 84

- V-mirror reflector made of high-gloss pure aluminium, transverse lamellae matt aluminium profiled
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T8 lamps in terms of lighting technology
- recessed installation in ceilings with visible carrier profiles or in cut-out recess openings
- installation kits included with the lights
- special versions for other ceiling systems and other dimensions available on request



Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
ER 84 1x18 EVG	T8	G13	620	188	109	170	605	2,5	2920940
ER 84 1x36 EVG	T8	G13	1245	188	109	170	1230	3,5	2920948
ER 84 1x58 EVG	T8	G13	1545	188	109	170	1530	5,5	2920956
ER 84 2x18 EVG	T8	G13	620	310	92	290	605	3,0	2920942
ER 84 2x36 EVG	T8	G13	1245	310	92	290	1230	6,0	2920950
ER 84 2x58 EVG	T8	G13	1545	310	92	290	1530	7,5	2920958
ER 84 3x18 EVG	T8	G13	620	620	92	605	605	5,5	2920944
ER 84 3x36 EVG	T8	G13	1245	620	92	605	1230	9,5	2920952
ER 84 3x58 EVG	T8	G13	1545	620	92	605	1530	12,5	2920960
ER 84 4x18 EVG	T8	G13	620	620	92	605	605	5,5	2920946
ER 84 4x36 EVG	T8	G13	1245	620	92	605	1230	10,5	2920954
ER 84 4x58 EVG	T8	G13	1545	620	92	605	1530	13,5	2920962

Recessed louver luminaires

Universal recessed louver luminaires for flush-mounting.

The lights are suitable for general lighting, workplaces with monitors and those supporting monitors.

ER 87**Luminaire:**

Galvanised white, powder-coated sheet steel (similar to RAL 9003).

Louwer:

BAP 60°, parabolic specular louver made of high-gloss anodised purest aluminium.

Direct light distribution, optimised for T8 lamps in terms of lighting technology.

Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.

Electronic ballast (EVG).

Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.

Installation:

Recessed mounting in ceilings with visible carrier profiles and in cut-out recess openings. Installation kits are included with the lights as standard.

Special features:

Special versions for other ceiling systems and other dimensions available on request.

Universal recessed louver luminaires for flush-mounting.

The lights are suitable for illuminating vertical wall surfaces.

EF 80**Luminaire:**

Galvanised white, powder-coated sheet steel (similar to RAL 9003).

Optics:

Matt anodised purest aluminium reflector with asymmetrical light distribution for the homogenous lighting of wall surfaces.

Direct light distribution, optimised for T8 lamps in terms of lighting technology.

Electrical equipment:

3-pin quick plug terminal, double cable entry.

Electronic ballast (EVG).

Special versions available, e.g. adjustable EVG 1-10 V, DALI.

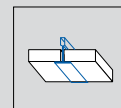
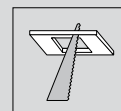
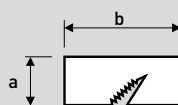
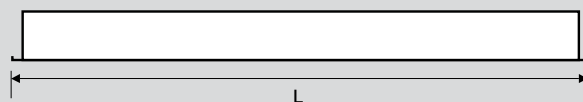
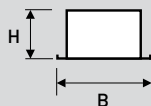
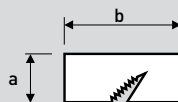
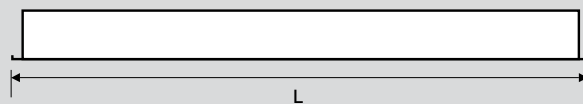
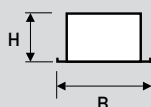
Safety lighting versions available.

Installation:

Recessed mounting in ceilings with visible carrier profiles and in cut-out recess openings. Installation kits are included with the lights as standard.

Special features:

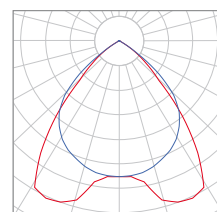
Special versions for other ceiling systems and other dimensions available on request.

ER 87**EF 80**

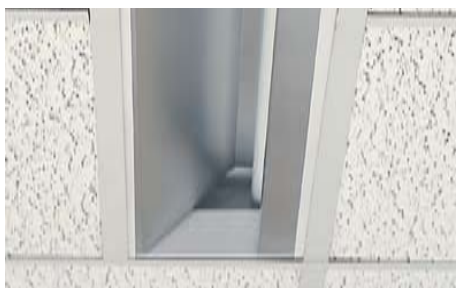
Recessed louver luminaires

**ER 87**

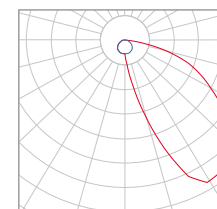
- BAP 60° parabolic specular louver made of high-gloss anodised purest aluminium
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T8 lamps in terms of lighting technology
- recessed installation in ceilings with visible carrier profiles or in cut-out recess openings
- installation kits included with the lights
- special versions for other ceiling systems and other dimensions available on request



Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
ER 87 1x18 EVG	T8	G13	620	188	109	170	605	2,5	2920980
ER 87 1x36 EVG	T8	G13	1245	188	109	170	1230	3,5	2920988
ER 87 1x58 EVG	T8	G13	1545	188	109	170	1530	5,5	2920996
ER 87 2x18 EVG	T8	G13	620	310	92	290	605	3,0	2920982
ER 87 2x36 EVG	T8	G13	1245	310	92	290	1230	6,0	2920990
ER 87 2x58 EVG	T8	G13	1545	310	92	290	1530	7,5	2920998
ER 87 3x18 EVG	T8	G13	620	620	92	605	605	5,5	2920984
ER 87 3x36 EVG	T8	G13	1245	620	92	605	1230	9,5	2920992
ER 87 3x58 EVG	T8	G13	1545	620	92	605	1530	12,5	2921000
ER 87 4x18 EVG	T8	G13	620	620	92	605	605	5,5	2920986
ER 87 4x36 EVG	T8	G13	1245	620	92	605	1230	10,5	2920994
ER 87 4x58 EVG	T8	G13	1545	620	92	605	1530	13,5	2921002

**EF 80**

- illumination of wall surfaces
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T8 lamps in terms of lighting technology
- recessed installation in ceilings with visible carrier profiles or in cut-out recess openings
- installation kits included with the lights
- special versions for other ceiling systems and other dimensions available on request



Model	Lamp	Version	Dimensions in mm					Weight kg	Article number
			Length	Width	Height	a	b		
EF 80 1x36 EVG	T8	G13	1245	188	85	170	1235	3,5	2921300
EF 80 1x58 EVG	T8	G13	1545	188	85	170	1532	6,0	2921302

Recessed louver luminaires

Recessed luminaires for recessed mounting in ceilings with concealed mounting rail systems. The lights are suitable for workplaces with monitors and those supporting monitors.

ER 87-VT, ER 187-VT

Luminaire:

Galvanised, white powder-coated sheet steel (similar to RAL 9003).

Louver:

BAP 60° specular louver, parabolically shaped longitudinal reflectors and transverse lamellae made of high-gloss anodised purest aluminium. Direct light distribution, optimised for T8 or T5 lamps in terms of lighting technology.

Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.

Electronic ballast (EVG).

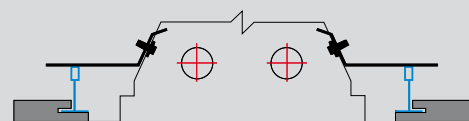
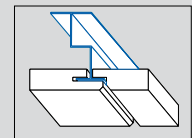
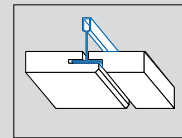
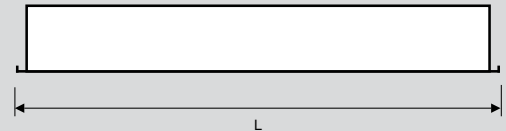
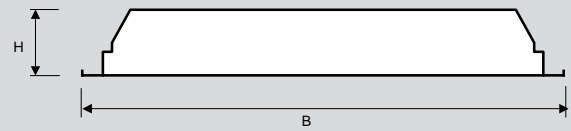
Special versions available, e.g. adjustable EVG 1-10 V, DALI.

Safety lighting versions available.

Installation:

Recessed mounting in ceilings with concealed mounting rail systems.

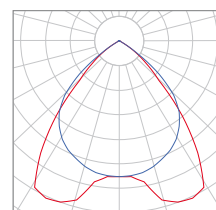
ER 87-VT, ER 187-VT



Recessed louver luminaires

**ER 87-VT**

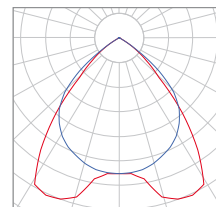
- BAP 60° specular louver, parabolically shaped longitudinal reflectors and transverse lamellae made of high-gloss anodised purest aluminium
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T8 lamps in terms of lighting technology
- recessed mounting in ceilings with concealed mounting rail systems



Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			Length	Width	Height		
ER 87-VT 3x18 EVG	T8	G13	624	624	85	6	2921330
ER 87-VT 4x18 EVG	T8	G13	624	624	85	6	2921332

**ER 187-VT**

- BAP 60° specular louver, parabolically shaped longitudinal reflectors and transverse lamellae made of high-gloss anodised purest aluminium
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T5 lamps in terms of lighting technology
- recessed mounting in ceilings with concealed mounting rail systems



Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			Length	Width	Height		
ER 187-VT 3x14	T5	G5	624	624	85	6	2921334
ER 187-VT 3x24	T5	G5	624	624	85	6	2921336
ER 187-VT 4x14	T5	G5	624	624	85	6	2921338
ER 187-VT 4x24	T5	G5	624	624	85	6	2921340

Recessed louver luminaires

Recessed louver luminaires for flush-mounting in panelled ceilings, module 100. The lights are suitable for general lighting, workplaces with monitors and those supporting monitors.

ER 81-P**Luminaire:**

Galvanised, white powder-coated sheet steel (similar to RAL 9003).

Louvers:

V-reflector and transverse lamellae made of white, powder coated aluminium. Direct light distribution, optimised for T8 lamps in terms of lighting technology. Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:

Flush mounting in panelled ceilings M 100. Panel installation kits are included with the lights as standard.

ER 84-P**Luminaire:**

Galvanised, white powder-coated sheet steel (similar to RAL 9003).

Louvers:

V-mirror reflector made of high-gloss pure aluminium, and transverse lamellae, matt aluminium profiled. Direct light distribution, optimised for T8 lamps in terms of lighting technology.
Fixed with a spring steel fastener, one-sided adjustable suspension.

Electrical equipment:

3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

Installation:

Flush mounting in panelled ceilings M 100. Panel installation kits are included with the lights as standard.

ER 87-P**Luminaire:**

Galvanised white, powder-coated sheet steel (similar to RAL 9003).

Louvers:

BAP 60° specular louver, parabolically shaped longitudinal reflectors and transverse lamellae made of high-gloss anodised purest aluminium. Direct light distribution, optimised for T8 lamps in terms of lighting technology. Fixed with a spring steel fastener, one-sided adjustable suspension.

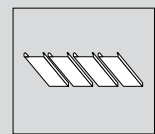
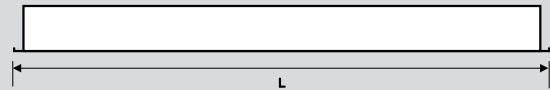
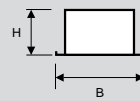
Electrical equipment:

3-pin quick plug terminal, double cable entry.
Electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

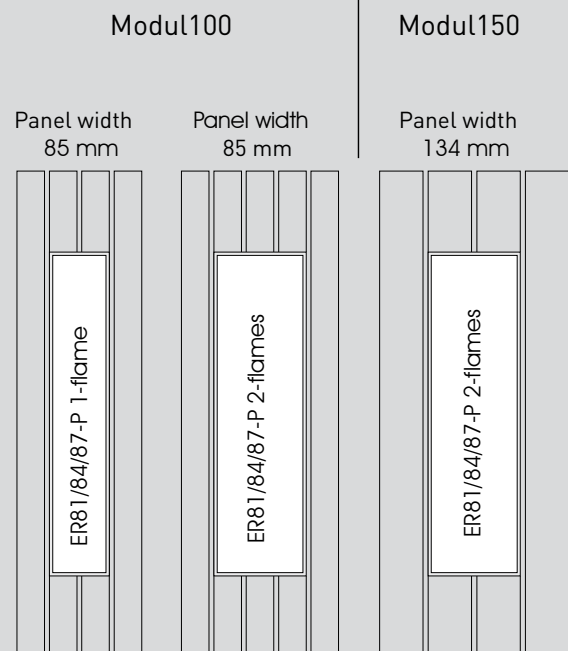
Installation:

Flush mounting in panelled ceilings M 100. Panel installation kits are included with the lights as standard.

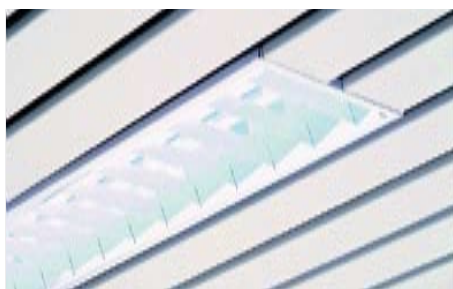
ER 81 / 84 / 87-P



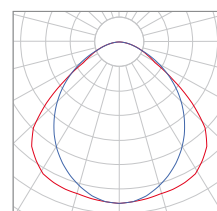
Suitable for the following panel sizes



Recessed louver luminaires

**ER 81-P**

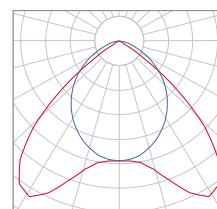
- V-reflector and transverse lamellae made of white, powder coated aluminium
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T8 lamps in terms of lighting technology
- flush mounting in panelled ceilings M 100
- panel installation kits included with the lights



Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			Length	Width	Height		
ER 81-P 1x36 EVG	T8	G13	1248	185	92	4,0	2921180
ER 81-P 1x58 EVG	T8	G13	1532	185	92	6,0	2921184
ER 81-P 2x36 EVG	T8	G13	1248	285	92	6,0	2921182
ER 81-P 2x58 EVG	T8	G13	1532	285	92	7,5	2921186

**ER 84-P**

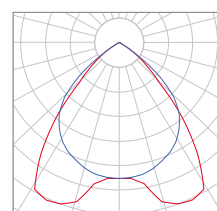
- V-mirror reflector made of high-gloss pure aluminium and transverse lamellae, matt aluminium profiled
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T8 lamps in terms of lighting technology
- flush mounting in panelled ceilings M 100
- panel installation kits included with the lights



Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			Length	Width	Height		
ER 84-P 1x36 EVG	T8	G13	1248	185	92	4,0	2921190
ER 84-P 1x58 EVG	T8	G13	1532	185	92	6,0	2921194
ER 84-P 2x36 EVG	T8	G13	1248	285	92	6,0	2921192
ER 84-P 2x58 EVG	T8	G13	1532	285	92	7,5	2921196

**ER 87-P**

- BAP 60° specular louver, parabolically shaped longitudinal reflectors and transverse lamellae made of high-gloss anodised purest aluminium
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003)
- optimised for T8 lamps in terms of lighting technology
- flush mounting in panelled ceilings M 100
- panel installation kits included with the lights



Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			Length	Width	Height		
ER 87-P 1x36 EVG	T8	G13	1248	185	92	4,0	2921200
ER 87-P 1x58 EVG	T8	G13	1532	185	92	6,0	2921204
ER 87-P 2x36 EVG	T8	G13	1248	285	92	6,0	2921202
ER 87-P 2x58 EVG	T8	G13	1532	285	92	7,5	2921206

Project solution

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting / louver luminaires

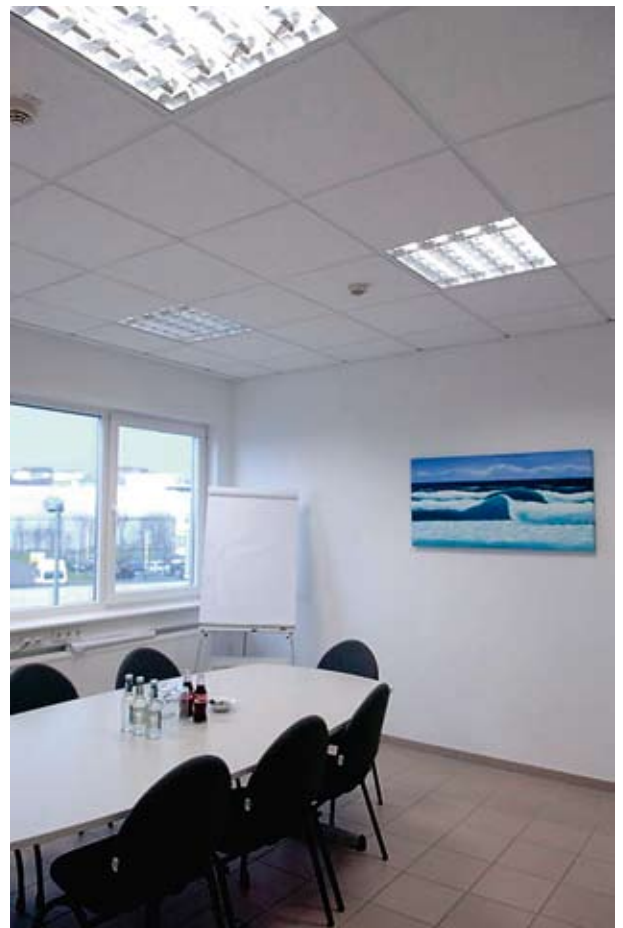
Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix





SE 20, SA 20

Sports facilities lighting

Lights tested to DIN 18032 for use in sports facilities.

Universally usable, these lights fulfil all the light and mechanical requirements such as "protection against flying balls" to DIN 18032.

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting /
louver luminaires**Luminaires for
sports facilities**

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Recessed luminaires for sports facilities

Universally usable, especially robust recessed luminaires for sports facilities, tested to DIN 18032. Different high-quality light conductors for athletes, audiences and referees.

SE 21/121, SE 24/124

Luminaire:

Sheet steel, made from one piece, white, powder-coated (similar to RAL 9016).

Louver:

Stepped reflector and transverse lamellae made of white, powder coated sheet steel (SE 21) or stepped mirror reflector made of matt anodised pure aluminium, transverse lamellae, aluminium profiled (SE 24). Fastened with concealed springs; can be opened on both sides.

Electrical equipment:

Quick plug terminal. Double cable entry. Electromagnetic ballast (VVG) or electronic ballast (EVG). Special versions available, e.g. adjustable EVG 1-10 V, DALI. Safety lighting versions available.

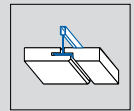
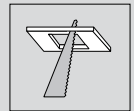
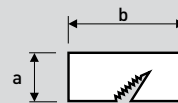
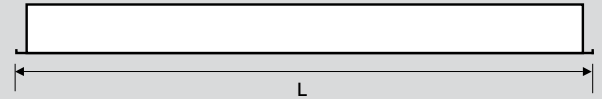
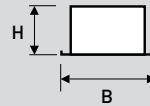
Installation:

Recessed into the hall ceiling on a concealed mounting rail construction. Installation kit for concealed mounting rail construction included with the lights as standard.

Special features

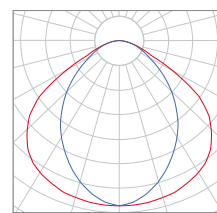
Lights for tennis halls (with tennis ball protection) on request.

SE 21/121, SE24/124

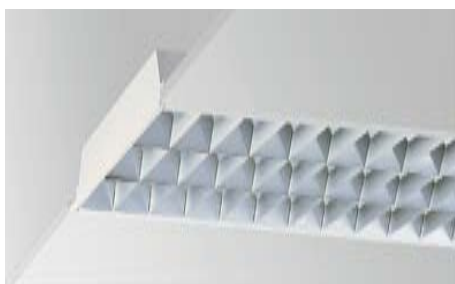


**SE 21, SE 121**

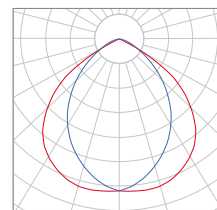
- stepped reflector and transverse lamellae made of white, powder coated sheet steel
- recessed into the hall ceiling on a concealed mounting rail construction (special version for tennis halls on request)
- installation kits included as standard



Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
SE 21 2x58 EVG	T8	G13	1548	312	83	292	1530	2520240
SE 21 3x58 EVG	T8	G13	1548	485	83	465	1530	2520242
SE 21 4x58 EVG	T8	G13	1548	623	83	603	1530	2520244
SE 21 2x58 WVG	T8	G13	1548	312	83	292	1530	1520240
SE 21 3x58 WVG	T8	G13	1548	485	83	465	1530	1520242
SE 21 4x58 WVG	T8	G13	1548	623	83	603	1530	1520244
SE 121 2x80	T5	G5	1548	312	83	292	1530	2520246
SE 121 3x80	T5	G5	1548	485	83	465	1530	2520248

**SE 24, SE 124**

- stepped mirror reflector made of matt anodised pure aluminium, transverse lamellae aluminium profiled
- recessed into the hall ceiling on a concealed mounting rail construction (special version for tennis halls on request)
- installation kits included as standard



Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
SE 24 2x58 EVG	T8	G13	1548	312	83	292	1530	2520260
SE 24 3x58 EVG	T8	G13	1548	485	83	465	1530	2520262
SE 24 4x58 EVG	T8	G13	1548	623	83	603	1530	2520264
SE 24 2x58 WVG	T8	G13	1548	312	83	292	1530	1520260
SE 24 3x58 WVG	T8	G13	1548	485	83	465	1530	1520262
SE 24 4x58 WVG	T8	G13	1548	623	83	603	1530	1520264
SE 124 2x80	T5	G5	1548	312	83	292	1530	2520266
SE 124 3x80	T5	G5	1548	485	83	465	1530	2520268

Mounted lights for sports facilities

Universally usable, especially robust mounted lights for sports facilities, tested to DIN 18032.
Different high-quality light conductors for athletes, audiences and referees.

SA 21/121, SA 24/124

Luminaire:

Sheet steel, made from one piece, white, powder-coated (similar to RAL 9016).

Louwer:

Stepped reflector and transverse lamellae made of white, powder coated sheet steel (SA 21) or stepped mirror reflector made of matt anodised pure aluminium, transverse lamellae, aluminium profiled (SA 24).
Fastened with concealed springs; can be opened on both sides.

Electrical equipment:

Quick plug terminal. Double cable entry.
Electromagnetic ballast (VVG) or electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available.

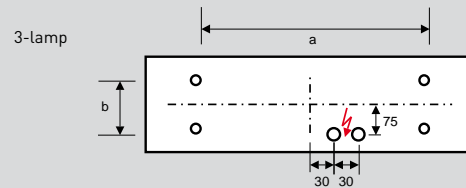
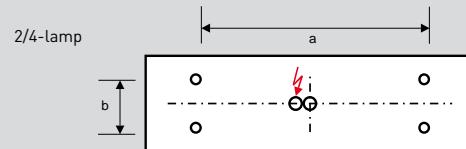
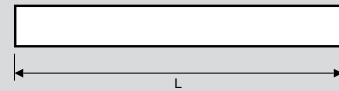
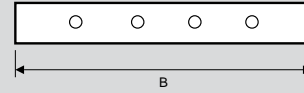
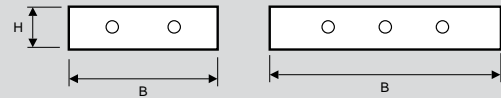
Installation:

The SV 10 galvanised mounting rail is recommended for suspended strip light mounting.

Special features

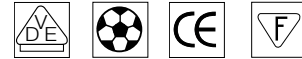
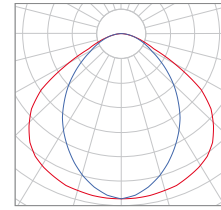
Lights for tennis halls (with tennis ball protection) on request.

SA 21/121, SA24/124



**SA 21, SA 121**

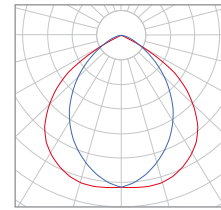
- stepped reflector and transverse lamellae made of white, powder coated sheet steel
- recessed into the hall ceiling on a concealed mounting rail construction (special version for tennis halls on request)



Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
SA 21 2x58 EVG	T8	G13	1548	312	90	1150	170	2520200
SA 21 3x58 EVG	T8	G13	1548	485	90	1150	360	2520202
SA 21 4x58 EVG	T8	G13	1548	623	90	1150	360	2520204
SA 21 2x58 VVG	T8	G13	1548	312	90	1150	170	1520200
SA 21 3x58 VVG	T8	G13	1548	485	90	1150	360	1520202
SA 21 4x58 VVG	T8	G13	1548	623	90	1150	360	1520204
SA 121 2x80	T5	G5	1548	312	90	1150	170	2520206
SA 121 3x80	T5	G5	1548	485	90	1150	360	2520208

**SA 24, SA124**

- stepped mirror reflector made of matt anodised pure aluminium, transverse lamellae aluminium profiled
- recessed into the hall ceiling on a concealed mounting rail construction (special version for tennis halls on request)

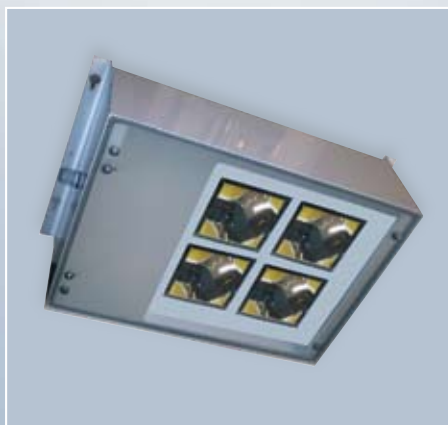


Model	Lamp	Version	Dimensions in mm					Article number
			Length	Width	Height	a	b	
SA 24 2x58 EVG	T8	G13	1548	312	90	1150	170	2520220
SA 24 3x58 EVG	T8	G13	1548	485	90	1150	360	2520222
SA 24 4x58 EVG	T8	G13	1548	623	90	1150	360	2520224
SA 24 2x58 VVG	T8	G13	1548	312	90	1150	170	1520220
SA 24 3x58 VVG	T8	G13	1548	485	90	1150	360	1520222
SA 24 4x58 VVG	T8	G13	1548	623	90	1150	360	1520224
SA 124 2x80	T5	G5	1548	312	90	1150	170	2520226
SA 124 3x80	T5	G5	1548	485	90	1150	360	2520228

Project solution

Very special requirements are made of lights for sports facilities. This especially concerns robustness and safety. Kadem lights for sports facilities, here the SA 21, fulfil these requirements - in every stage of the competition.





High bay luminaires

Industrial lighting

Hall lighting

High bay luminaires for the illumination of large areas from a great height.

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting /
louver luminaires

Luminaires for
sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Mounted light

Dustproof, water-resistant LED light.

For use in the field of industry such as petrol stations, warehouses and manufacturing halls.

HA 10 LED**Luminaire:**

Galvanised sheet steel, white powder-coated (similar to RAL 9003).
Hardened safety glass cover.

Optics:

High-gloss purest aluminium reflector, Miro 27 silver.
Direct light distribution. Optimised for Fortimo LED module in terms of lighting technology.

Electrical equipment:

5-pole quick plug terminal, double-action switch.

Special versions available

e.g. with integrated motion detector or in dimmable DALI version.
Safety lighting versions available.

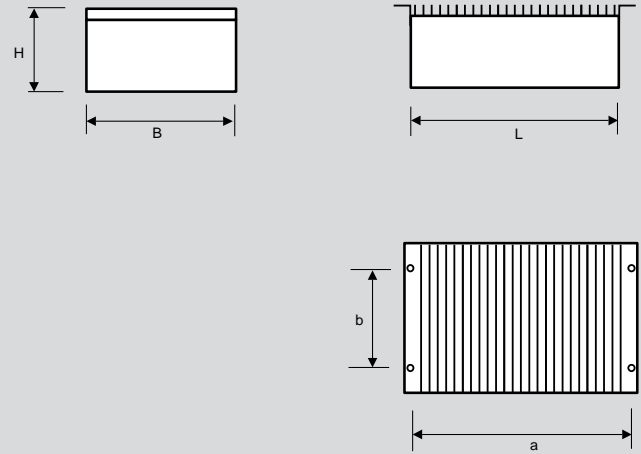
Installation:

For ceiling mounting.

Energy reduction:

The **HA 10 LED 8000/840** light generates the same amount of light as traditional lights with a mercury vapour discharge lamp, 250W (HME).

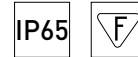
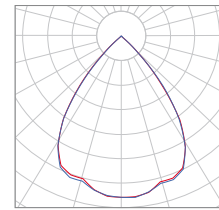
LED solution 128 W (system power)
HME solution 272 W (system power)

HA 10 LED



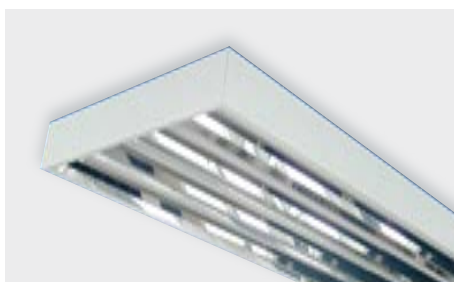
HA 10 LED

- high-gloss purest aluminium reflector, Miro 27 silver
- direct light beam
- galvanised sheet steel luminaire, white, powder-coated (similar to RAL 9003), hardened safety glass cover
- optimised for Fortimo LED module in terms of lighting technology
- for ceiling mounting



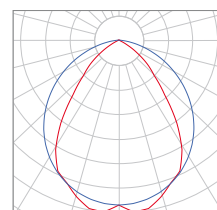
Model	Lamp	CCT* k	Luminous flux lm	Degree of efficiency %	Dimensions in mm					Article number
					Length	Width	Height	a	b	
HA 10 LED 8000/830	LED Fortimo	3000	8000	91	500	360	180	532	240	2560000
HA 10 LED 8000/840	LED Fortimo	4000	8000	91	500	360	180	532	240	2560002
HA 10 LED 12000/840	LED Fortimo	4000	12000	91	500	360	180	532	240	2560004

*Correlated colour temperature



HFL 100

- high-gloss anodised purest aluminium reflector
- ceiling mounting (even in tall halls) on a pendant tube, rope suspension, chains or on mounting rails



Model	Lamp	Version	Dimensions in mm						Weight kg	Article number
			Length	Width	Height	a	b	c		
HFL 100 4x54	T5	G5	1200	420	90	1090	370	900	6,30	2921500
HFL 100 4x80	T5	G5	1500	420	90	1390	370	1200	7,80	2921502
HFL 100 4x54 DIM	T5	G5	1200	420	90	1090	370	900	6,30	3921500
HFL 100 4x80 DIM	T5	G5	1500	420	90	1390	370	1200	7,80	3921502
HFL 100 2x95	T5	Gx5	1200	220	90	1090	170	900	4,00	2921504
HFL 100 2x120	T5	Gx5	1500	220	90	1390	170	1200	5,00	2921506

Accessories

Model	Description	Article number
AS11	Suspension screw for chains or rope suspension pendant	1480909



EVG: electronic ballast; VWG: electromagnetic ballast

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting / lower luminaires

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Hall reflector lights

HI 50

On account of their high luminous flux concentration, which can be changed by repositioning the socket in different light distribution curves, these lights are ideal for economical lighting from high ceilings.

Luminaire:

Ballast housing made of cast aluminium, in rounded form (reduces build-up of dust).
Powder-coated RAL 9005. Protection class IP 65.

Reflector:

Aluminium reflector with a semi-matt reflecting surface. Tool-free adjustable lamp socket for narrow, deep wide and wide-beam light distribution curves.

Either frontal glass plate or frontal wire guard (= accessories).

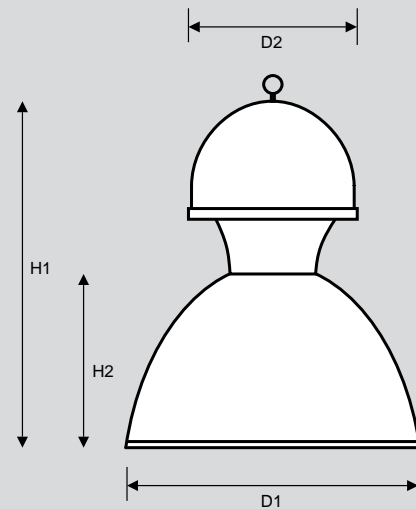
Electrical equipment:

Electromagnetic ballast.
Cable entry by existing screw connection, 5-pole spring clip, compensated as standard.

Installation:

Can be suspended on a ring eye.

HI 50



DP 50

If value is placed on good lighting and good design, such as in shopping centres, exhibition rooms or foyers, this nicely-shaped light is ideal.

Luminaire:

Ballast housing made of perforated, white aluminium powder-coated sheet steel (similar to RAL 9006), with thermo-hardened polyurethane powder, stabilised and UV protected.

Reflector:

Polycarbonate reflector with longitudinal prism structure for good direct-indirect luminous intensity distribution.
Tool-free adjustable lamp socket for narrow, deep wide and wide-beam light distribution curves.

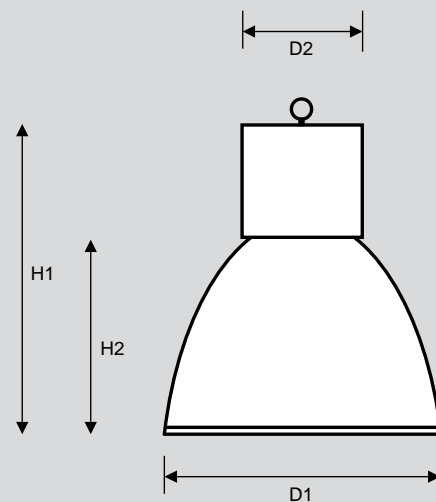
Electrical equipment:

Electromagnetic ballast, compensated as standard.
Electronic ballast in TC-L versions (hum-free).
3-pin quick plug terminal.

Installation:

On chain suspension. Included with the light as standard.

DP 50

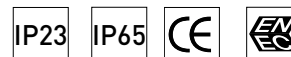
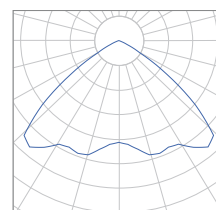


Architectural lighting
Coved and illuminated ceiling lighting
General lighting
Office lighting / louver luminaires
Luminaires for sports facilities
Industrial lighting
Damp-proof lights
Outdoor lighting
Appendix



HI 50

- aluminium reflector with semi-matt reflecting surface
- direct light beam
- ballast housing made of cast aluminium, powder-coated RAL 9005, protection class IP 65
- either frontal glass plate or frontal wire guard
- can be suspended on ring eye

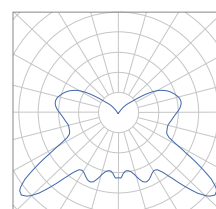


Model	Lamp	Version	Dimensions in mm				Article number
			D1	D2	H1	H2	
HI 50 1x150	HIE/HSE	E40	480	280	580	290	1620528
HI 50 1x250	HIE/HSE	E40	480	280	580	290	1620530
HI 50 1x400	HIE/HSE	E40	480	280	580	290	1620532
HI 50 1x150 IP65	HIE/HSE	E40	480	280	580	290	1620526
HI 50 1x250 IP65	HIE/HSE	E40	480	280	580	290	1620550
HI 50 1x400 IP65	HIE/HSE	E40	480	280	580	290	1620552



DP 50

- polycarbonate reflector with longitudinal prism structure
- direct light beam
- ballast housing made of perforated, white aluminium powder-coated sheet steel (similar to RAL 9006), with thermo-hardened polyurethane powder, stabilised and UV protected
- mounting on chain suspension, included with the light



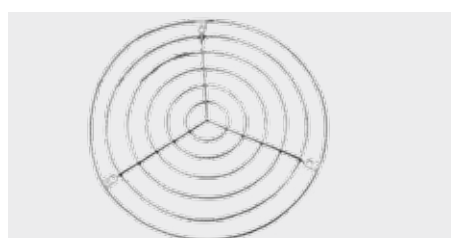
Model	Lamp	Version	Dimensions in mm				Article number
			D1	D2	H1	H2	
DP 50 1x70	HIE	E27	410	178	455	290	1620600
DP 50 1x150	HIE/HSE	E40	410	178	455	290	1620602
DP 50 1x250	HIE/HSE	E40	410	178	455	290	1620604
DP 50 1x42	TC-TEL	GX24q-4	410	178	455	290	1620612
DP 50 1x70	TC-TELI	GX24q-6	410	178	455	290	1620614
DP 50 2x42	TC-TEL	GX24q-4	410	178	455	290	1620616

Accessories



HG 50

- glass plate for HI 50



HB 50

- wire guard for HI 50



DG 50

- plastic cover for DP 50

Model	Description	Article number
HG 50	Glass plate for HI 50	1620522
HB 50	Wire guard for HI 50	1620524
DG 50	Plastic cover for DP 50	1620523

Project solution

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting / lower luminaires

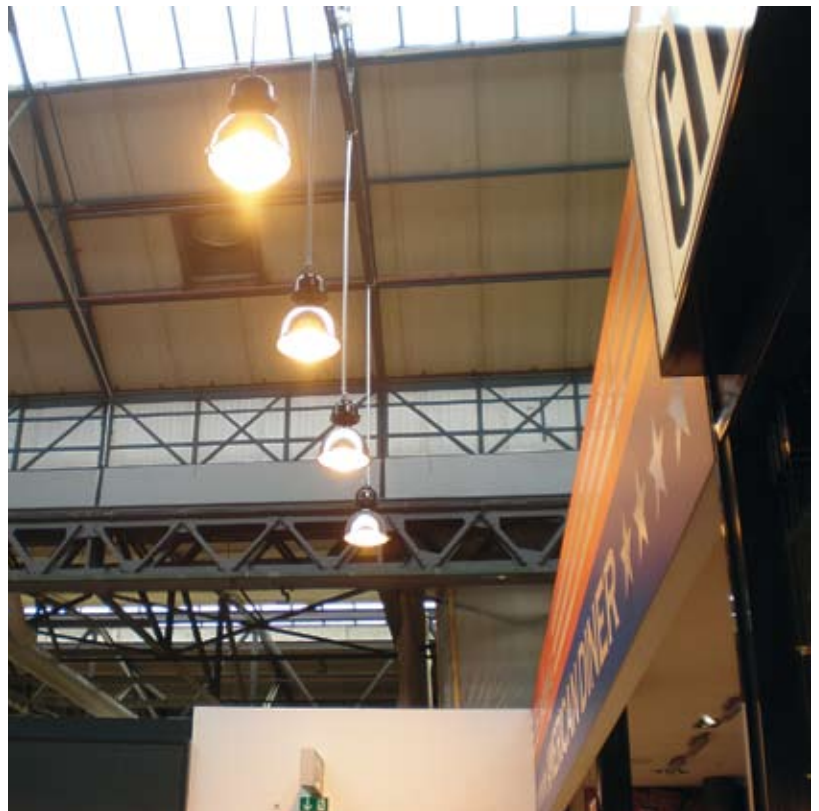
Luminaires for sports facilities

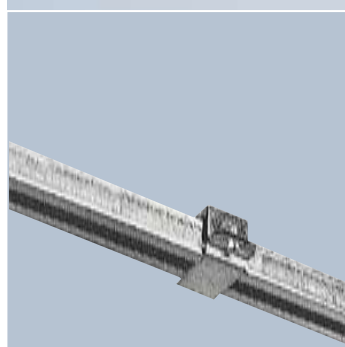
Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix





Quick-mount strip light system

Industrial lighting

For the quick and easy mounting of lights and light strips

This strip light system has many possible variations with reflectors and mirror inlays.

Architectural lighting

Cove and illuminated ceiling lighting

General lighting

Office lighting /
louver luminaires

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Quick-mount strip light system

A strip light system that can be mounted easily and quickly according to the Kandem formula: easy mounting + quick mounting = cost savings. A flexible quick-mount system with many possible variations with different reflectors and mirror inlays.

SV 70

Mounting rail:

sheet steel, white coated (similar to RAL 9010).
1-length, 2-length or 3-length.

Electrical equipment of the mounting rails:

Fixed, heat-resistant 5-lead wiring (1.5 mm²), phase selection switch for each light unit. Further wiring can be added with 7-pole connecting clamps.

Installation:

Rail can be connected easily and quickly with the V 70 connector (part of the rail).

Electrical equipment of the luminaire:

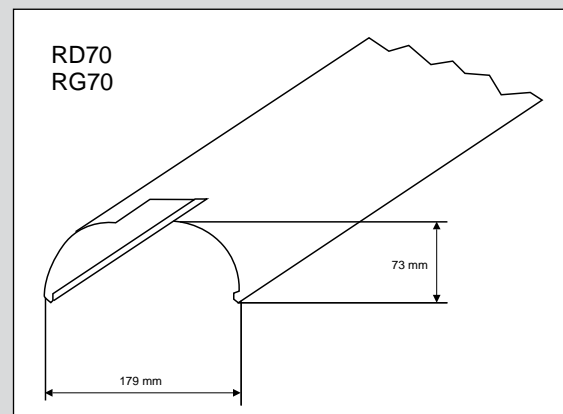
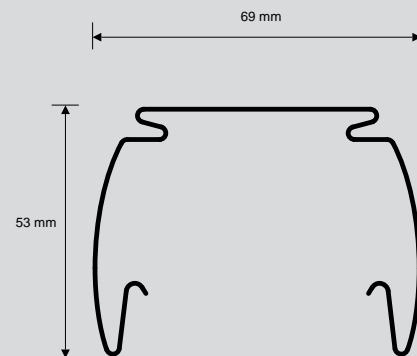
Double cable entry.
Electromagnetic ballast (VVG), electronic ballast (EVG).
Special versions available, e.g. adjustable EVG 1-10 V, DALI.
Safety lighting versions available with emergency lamp socket E 14 or with emergency lighting for 1h or 3h burning time.

SV 75

System SV 75 is like SV 70, only as an empty rail (without feed-through wiring).

Connectors are included in the delivery.

SV 70, SV 75

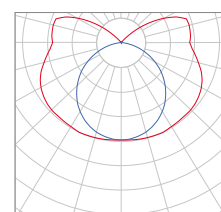




Mounting rail SV 70 with connector

- white, powder coated sheet steel (similar to RAL 9010)
- fixed, heat-resistant 5-lead wiring (1.5 mm²)
- 7-pole connecting clamps (2 x 1.5 mm², additional wiring possible)
- phase selection switch for each light unit
- mounted mounting rail connector
- 1-length, 2-length or 3-length

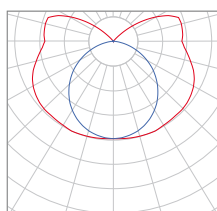
Model	Article number
SV 70 58 1-längig	1520001
SV 70 58 2-längig	1520003
SV 70 58 3-längig	1520005



Luminaire LKSV 70 / T 8

- white, powder coated sheet steel (similar to RAL 9010)
- completely wired
- optimised for T8 fluorescent bulbs in terms of lighting technology

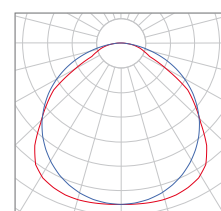
Model	Article number
LKSV 70 1x58 EVG	2520007
LKSV 70 1x58 IP54 EVG	2520014
LKSV 70 2x58 EVG	2520009
LKSV 70 1x58 VVG	1520007
LKSV 70 2x58 VVG	1520009



Luminaire LKSV 170 / T 5

- white, powder coated sheet steel (similar to RAL 9010)
- completely wired
- optimised for T5 in terms of lighting technology fluorescent bulbs

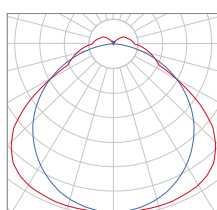
Model	Article number
LKSV 170 1x35/49/80	2520040
LKSV 170 1x80	2520011
LKSV 170 1x80 IP54	2520019
LKSV 170 2x35/49	2520042
LKSV 170 2x80	2520013



Reflector RD 70

- wide-beam semicircular reflector
- white, powder coated sheet steel (similar to RAL 9010)
- for 1- and 2-lamp fitting
- mirror inlays, louvers and prism discs can be used tool-free

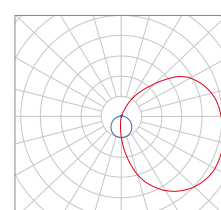
Model	Article number
RD 70 1/2x58/35/80	1520014
RD 72 1/2x58/35/80 IP54	1520015



Reflector RG 70

- semicircular reflector
- white, powder coated perforated plate (similar to RAL 9010)
- for 1- and 2-lamp fitting
- especially suitable for decorative illumination of public areas with customers or other people

Model	Article number
RG 70 1/2x58/80	1520016



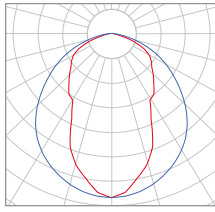
Asymmetrical reflector RAS 70

- asymmetrical reflector
- white, powder coated sheet steel (similar to RAL 9010)
- for 1- and 2-lamp fitting

Model	Article number
RAS 70 1/2x58/80	1520018

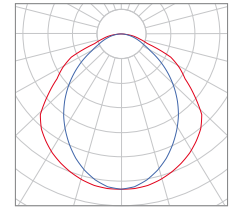
EVG: electronic ballast; VVG: electromagnetic ballast

Quick-mount strip light system

**Reflector RT 70 (narrow beam)**

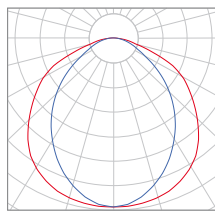
- aluminium mirror reflector
- for 1- and 2-lamp fitting
- can be fixed to LKSV 70 and LKSV 170 luminaires
- especially suitable for illumination between high shelves and corridors in business and industry

Model	Article number
RT 70 1/2x58/80	1520028

**Strip louver LR 70**

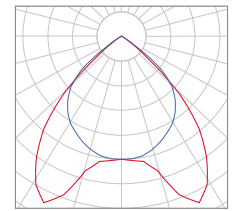
- white, powder coated sheet steel
- can be opened on both sides
- available with 1 or 2 bulbs
- can be inserted into RD 70 reflector without tools

Model	Article number
LR 70 1/2x58/80	1520020

**Specular louver SR 70**

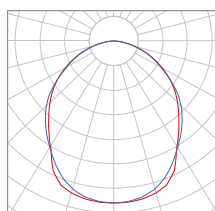
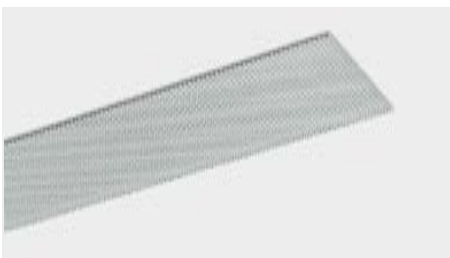
- profiled aluminium transverse lamellae
- can be opened on both sides
- available with 1 or 2 bulbs
- can be inserted into RD 70 reflector without tools

Model	Article number
SR 70 1/2x58/80	1520022

**Specular louver BR 70 BAP 60°**

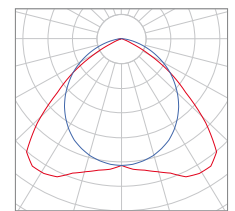
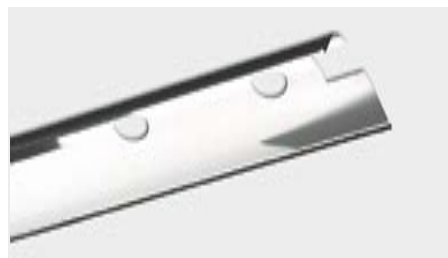
- high-gloss BAP 60° louver, parabolically shaped
- can be opened on both sides
- available with 1 or 2 bulbs
- can be inserted into RD 70 reflector without tools

Model	Article number
BR 70 1x58/80	1520024
BR 70 2x58/80	1520026

**Prism disc PS 70**

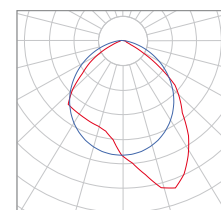
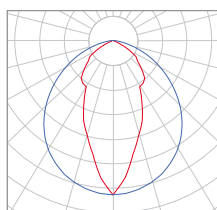
- plastic
- available with 1 or 2 bulbs
- can be inserted into RD 70 reflector without tools

Model	Article number
PS 70 1/2x58/80	1520030

**Mirror insert SEB 70**

- wide-beam mirror insert
- available with 1 or 2 bulbs
- can be inserted into RD 70 reflector without tools

Model	Article number
SEB 70 1/2x 58/80	1520032
SEB 70 1/2x 58/80 IP54	1520033



Mirror insert SET 70

- narrow-beam mirror insert
- available with 1 or 2 bulbs
- can be inserted into RD 70 reflector without tools

Mirror insert SEA 70

- asymmetrical-beam mirror insert
- available with 1 or 2 bulbs
- can be inserted into RD 70 reflector without tools

Model	Article number
SET 70 1x58/80	1520034
SET 70 2x58/80	1520036

Model	Article number
SEA 70 1x58/80	1520038
SEA 70 2x58/80	1520040



Ceiling bracket DB 70

- sheet steel
- for direct ceiling mounting of the mounting rail SV 70



Ceiling bracket for caddy clips CD 70

- ceiling bracket with M 6 thread for caddy clip on visible mounting rail
- sheet steel
- for ceiling mounting of the mounting rail SV 70

Model	Article number
DB 70	1520044

Model	Article number
CD 70	1520050



Chain suspension KA 70

- sheet steel
- for chain suspension of the mounting rail SV 70
- height adjustable



Rope suspension SA 70

- sheet steel
- for rope suspension of the mounting rail SV 70
- height adjustable

Model	Article number
KA 70	1520046

Model	Article number
SA 70	1520048

Quick-mount strip light system

**End cap SK 70**

- plastic, white
- for closing the mounting rails
- 2 cable entry possibilities

Model	Article number
SK 70	1520042

**Reflector cover strips RA 70**

- sheet steel, white
- for RD 70 and RG 70 reflectors
- 2 pieces per joint required

Model	Article number
RA 70	1520052
RA 72 IP54	1520053

**Reflector end piece RE 70**

- sheet steel, white
- for RD 70 and RG 70 reflectors

Model	Article number
RE 70	1520054
RE 72 IP54	1520055

**Blind covering BA 70**

- plastic, white
- length 1530 mm
- for sealing the SV 10 mounting rail

Model	Article number
BA 70	1520056

**Light fastener LB 70**

- to mount mounted lights on the SV 70 mounting rail

Model	Article number
LB 70	1520058

**Rail connector V 70**

- galvanised sheet steel
- for firmly connecting the SV 70 + SV 75 mounting rail

Model	Article number
V70	1520060



Line holder LH 70

- plastic
- to fix additional leads above the SV 70 mounting rail



Wire suspension S 50

- 3 m, diameter 1.5 mm²
- ring eye on both ends
- stepless height adjustable

Model	Article number
LH 70	1520062

Model	Article number
S50	1480733



Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting / lower luminaires

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Quick-mount strip light system

Material composition of the SV 70 system

Length ca. m	Luminaires					Light strip with additional reflector:				
	1 x 58 W 2 x 58 W 1 x 80 W 2 x 80 W	Rail SV 70 2-l. 58 W	Rail SV 70 3-l. 58 W	Suspension DB 70 KA 70 CD 70	End cap SK 70	Reflector RD 70 RG 70 1-2 x 58	Reflector Cover strip RA 70	Reflector End cap RE 70	Louver LR 70 SR 70 BR 70	PS 70 SEB 70 SET 70 SEA 70
3,06	2	1	-	2	2	2	2	2	2	2
4,59	3	-	1	3	2	3	4	2	3	3
6,12	4	2	-	4	2	4	6	2	4	4
7,65	5	1	1	5	2	5	8	2	5	5
9,18	6	-	2	6	2	6	10	2	6	6
10,71	7	2	1	7	2	7	12	2	7	7
12,24	8	1	2	8	2	8	14	2	8	8
13,77	9	-	3	9	2	9	16	2	9	9
15,30	10	2	2	10	2	10	18	2	10	10
16,83	11	1	3	11	2	11	20	2	11	11
18,36	12	-	4	12	2	12	22	2	12	12
19,89	13	2	3	13	2	13	24	2	13	13
21,42	14	1	4	14	2	14	26	2	14	14
22,95	15	-	5	15	2	15	28	2	15	15
24,48	16	2	4	16	2	16	30	2	16	16
26,01	17	1	5	17	2	17	32	2	17	17
27,54	18	-	6	18	2	18	34	2	18	18
29,07	19	2	5	19	2	19	36	2	19	19
30,60	20	1	6	20	2	20	38	2	20	20
32,13	21	-	7	21	2	21	40	2	21	21
33,66	22	2	6	22	2	22	42	2	22	22
35,19	23	1	7	23	2	23	44	2	23	23
36,72	24	-	8	24	2	24	46	2	24	24
38,25	25	2	7	25	2	25	48	2	25	25
39,78	26	1	8	26	2	26	50	2	26	26
41,31	27	-	9	27	2	27	52	2	27	27
42,84	28	2	8	28	2	28	54	2	28	28
44,37	29	1	9	29	2	29	56	2	29	29
45,90	30	-	10	30	2	30	58	2	30	30



Mounting rail SV 75

- white coated sheet steel (similar to RAL 9010)
- spaces covered with blind covering BA 70
- no wiring; the customer must do this
- mounted mounting rail binder
- 1-length, 2-length or 3-length

Model	Article number
SV 75 58 1-length	1520069
SV 75 58 2-length	1520070
SV 75 58 3-length	1520072



Small materials for the SV 75 system
See pages 195 – 197

Material composition of the SV 75 system

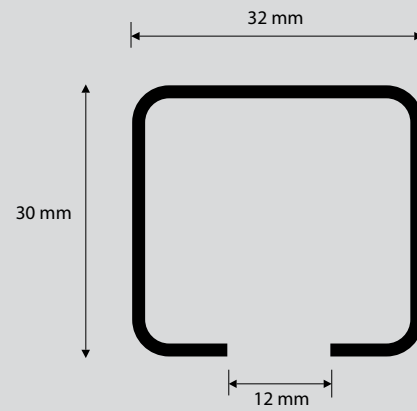
Length ca. m	Number of maximum possible lights	Rail SV 75 2-l. 58 W	Rail SV 75 3-l. 58 W	Suspension DB 70, KA 70, CD 70	End cap SK 70	LB 70
3,06	2	1		2	2	4
4,59	3		1	3	2	6
6,12	4	2		4	2	8
7,65	5	1	1	5	2	10
9,18	6		2	6	2	12
10,71	7	2	1	7	2	14
12,24	8	1	2	8	2	16
13,77	9		3	9	2	18
15,30	10	2	2	10	2	20
16,83	11	1	3	11	2	22
18,36	12		4	12	2	24
19,89	13	2	3	13	2	26
21,42	14	1	4	14	2	28
22,95	15		5	15	2	30
24,48	16	2	4	16	2	32
26,01	17	1	5	17	2	34
27,54	18		6	18	2	36
29,07	19	2	5	19	2	38
30,60	20	1	6	20	2	40
32,13	21		7	21	2	42
33,66	22	2	6	22	2	44
35,19	23	1	7	23	2	46
36,72	24		8	24	2	48
38,25	25	2	7	25	2	50
39,78	26	1	8	26	2	52
41,31	27		9	27	2	54
42,84	28	2	8	28	2	56
44,37	29	1	9	29	2	58
45,90	30		10	30	2	60

Support rail system for fixing damp-proof lights and other components

SV 10

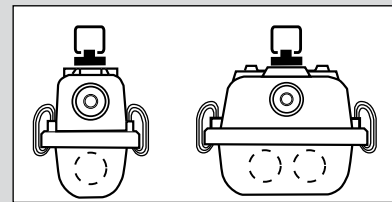
Stable mounting rail system for fixing damp-proof lights and other components.
Support rail, sendzimir galvanised profile.

SV 10

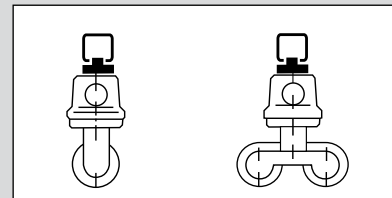


Examples with LB1 light fastener

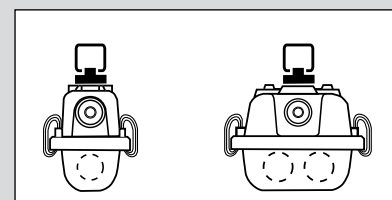
FK10



FK 35



FK61



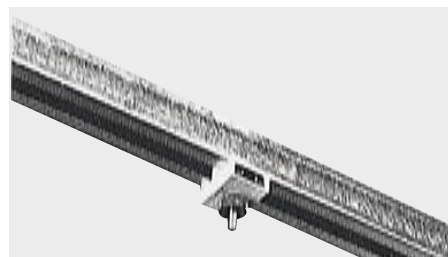
Support rail system for fixing damp-proof lights and other components



Mounting rail SV 10

- stabiles, sendzimir galvanised profile
- 2-length: 3.2 m or 3-length: 4.8 m

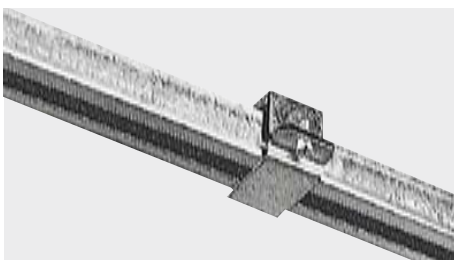
Model	Article number
SV 10 2-längig	1480802
SV 10 3-längig	1480803



Light fastener LB 1 / LB 65

- M 6 thread with knurled nut
- 2 fasteners per light (LB 65 for FK 65)

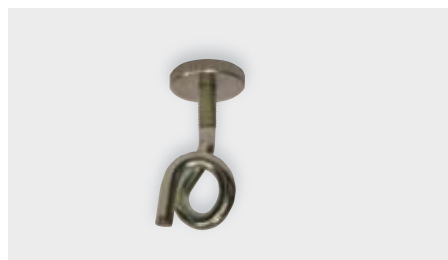
Model	Article number
LB 65	1480906
LB 1	1480900



Rail support SA 1

- for direct ceiling mounting
- with chain or suspension wire with AS 11

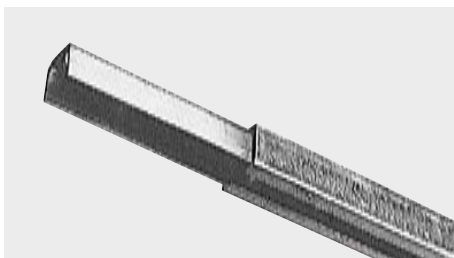
Model	Article number
SA 1	1480901



Suspension screw AS 11

- for chain or rope suspension with SA 1

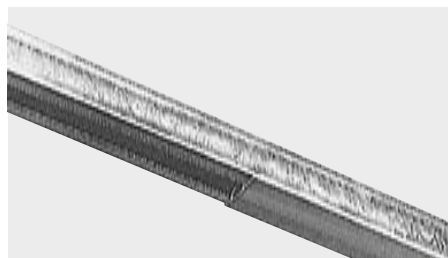
Model	Article number
AS 11	1480909



Connector V1

- for stably connecting the SV 10 mounting rail

Model	Article number
V 1	1480902



Blind covering BA 1

- grey PVC
- for closing the SV 10 mounting rail

Model	Article number
BA 1	1480905

Support rail system for fixing damp-proof lights and other components

SV 10 quick calculating system

Length of the light strip in m	Number of possible lights	Mounting rail SV 10 2-lg. 58 W	Mounting rail SV 10 3-lg. 58 W	Connector V1	Light fastener LB 1 bzw. LB 65	Suspension SA 1	Suspension screw AS 11
3,20	2	1			4	2	2
4,80	3		1		6	2	2
6,40	4	2		1	8	4	4
8,00	5	1	1	1	10	4	4
9,60	6		2	1	12	4	4
11,20	7	2	1	2	14	6	6
12,80	8	1	2	2	16	6	6
14,40	9		3	2	18	6	6
16,00	10	2	2	3	20	8	8
17,60	11	1	3	3	22	8	8
19,20	12		4	3	24	8	8
20,80	13	2	3	4	26	10	10
22,40	14	1	4	4	28	10	10
24,00	15		5	4	30	10	10
25,60	16	2	4	5	32	12	12
27,20	17	1	5	5	34	12	12
28,80	18		6	5	36	12	12
30,40	19	2	5	6	38	14	14
32,00	20	1	6	6	40	14	14

Project solution SV 70

It is this easy to generate good light: suspended mounting rail systems and the right lights.





Humidor trough lights, humidor light strips

Damp-proof lights

Damp-proof lights of the appropriate protection classes

These lights can be used wherever there is likely to be dust or damp hindrance.

Humidor trough lights

FK 10

Especially stable humidor trough light (IP55).

Luminaire:

White powder-coated reflector lamp socket with fibreglass-reinforced polyester housing.

Cover made of UV-resistant, thermoformed polymethylmethacrylate (PMMA) with a pearl structure.

This cover has high light permeability, a hard surface area and is enormously resistant to weather, ageing and chemical influences.

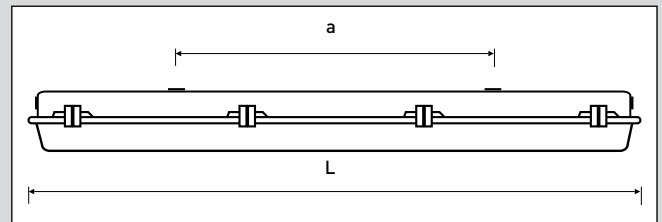
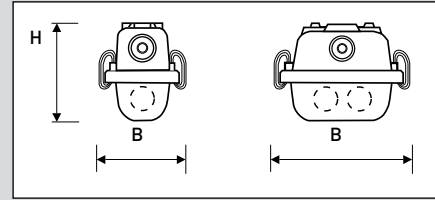
Electrical equipment:

Electromagnetic ballast (VVG) or electronic ballast (EVG) completely on the reflector lamp socket.

Installation:

Stable, captive knee lever locks.

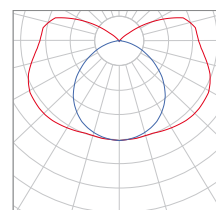
FK 10





FK 10

- white coated reflector lamp socket
- fibreglass-reinforced polyester housing
- PMMA trough with pearl structure
- VVG or EVG completely on reflector lamp socket



In the EVG version

Model	Lamp	Version	AG	Dimensions in mm				Article number
				Length	Width	Height	a	
FK 10 1x18 EVG	T8	G13	EVG	686	115	122	350	2482000
FK 10 1x36 EVG	T8	G13	EVG	1296	115	122	750	2482001
FK 10 1x58 EVG	T8	G13	EVG	1596	115	122	1050	2482005
FK 10 2x36 EVG	T8	G13	EVG	1296	195	122	750	2482009
FK 10 2x58 EVG	T8	G13	EVG	1596	195	122	1050	2482013
FK 10 1x18 VVG	T8	G13	VVG	686	115	122	350	1482000
FK 10 1x36 VVG	T8	G13	VVG	1296	115	122	750	1482001
FK 10 1x58 VVG	T8	G13	VVG	1596	115	122	1050	1482005
FK 10 2x36 VVG	T8	G13	VVG	1296	195	122	750	1482009
FK 10 2x58 VVG	T8	G13	VVG	1596	195	122	1050	1482013



EVG: electronic ballast; VVG: electromagnetic ballast

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting / lower luminaires

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Humidor trough lights

Covered humidor trough lights (protection class IP65).

FK 61

Luminaire:

Fibreglass-reinforced polyester housing, of low flammability. Cover made of UV-resistant, thermoformed polymethylmethacrylate (PMMA) with pearl structure. This cover has high light permeability, a hard surface area and is enormously resistant to weather, ageing and chemical influences.

Reflector:

White, powder-coated sheet steel, with an optional symmetrical aluminium reflector (as accessories).

Electrical equipment:

3-pin connecting terminal. Electromagnetic ballast (VVG) or electronic ballast (EVG). Special versions available, e.g. adjustable EVG 1-10 V, DALI. Safety lighting versions available.

Installation:

1-piece plastic clip lock.

Special features

A version for fire-endangered areas – protection class FF (D) on request. A version for protection class II on request.

FK 61 PC, FK 161 PC

Luminaire:

Fibreglass-reinforced polyester housing, of low flammability. Highly transparent polycarbonate (PC) cover with internal longitudinal prisms and etched surface structure. This cover, manufactured using thermo-injection moulding, has enormous impact strength and dimensional stability. UV stable.

Reflector:

White, powder-coated sheet steel, or symmetrical aluminium reflector (as accessories).

Electrical equipment:

3-pin connecting terminal. Electromagnetic ballast (VVG) or electronic ballast (EVG). Special versions available, e.g. adjustable EVG 1-10 V, DALI. Safety lighting versions available.

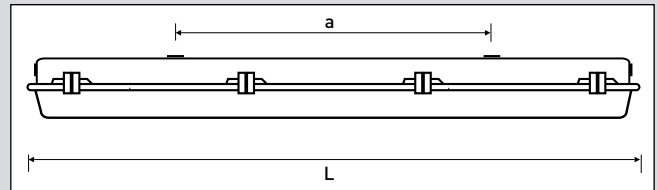
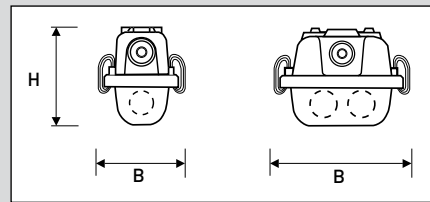
Installation:

1-piece V2A lock.

Special features

A version for fire-endangered areas – protection class FF (D) on request. A version for protection class II on request.

FK 61, FK 61 PC, FK 161 PC



Accessories: page 213

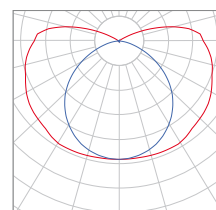


Mirror insert FK 161



FK 61

- covered humidor trough light
- white, powder coated reflector lamp socket, optionally available with symmetrical aluminium reflector (accessories)
- fibreglass-reinforced polyester housing, of low flammability
- UV-resistant PMMA trough with pearl structure

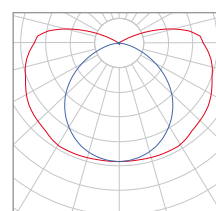


Model	Lamp	Version	Dimensions in mm				Article number
			Length	Width	Height	a	
FK 61 1X18 EVG	T8	G13	660	90	105	500	2715000
FK 61 1X36 EVG	T8	G13	1270	90	105	800	2715005
FK 61 1X58 EVG	T8	G13	1570	90	105	1100	2715010
FK 61 2X36 EVG	T8	G13	1270	140	105	800	2715020
FK 61 2X58 EVG	T8	G13	1570	140	105	1100	2715025
FK 61 1X18 WVG	T8	G13	660	90	105	500	1715000
FK 61 1X36 WVG	T8	G13	1270	90	105	800	1715005
FK 61 1X58 WVG	T8	G13	1570	90	105	1100	1715010
FK 61 2X36 WVG	T8	G13	1270	140	105	800	1715020
FK 61 2X58 WVG	T8	G13	1570	140	105	1100	1715025



FK 61 PC, FK 161 PC

- covered humidor trough light
- white, powder coated reflector lamp socket, or with symmetrical aluminium reflector (accessories)
- fibreglass-reinforced polyester housing, of low flammability
- polycarbonate trough with internal prism and etched surface structure



Model	Lamp	Version	Dimensions in mm				Article number
			Length	Width	Height	a	
FK 61PC 1X18 EVG	T8	G13	660	90	105	500	2715030
FK 61PC 1X36 EVG	T8	G13	1270	90	105	800	2715032
FK 61PC 1X58 EVG	T8	G13	1570	90	105	1100	2715036
FK 61PC 2X36 EVG	T8	G13	1270	140	105	800	2715034
FK 61PC 2X58 EVG	T8	G13	1570	140	105	1100	2715038
FK 61PC 1X18 WVG	T8	G13	660	90	105	500	1715030
FK 61PC 1X36 WVG	T8	G13	1270	90	105	800	1715032
FK 61PC 1X58 WVG	T8	G13	1570	90	105	1100	1715036
FK 61PC 2X36 WVG	T8	G13	1270	140	105	800	1715034
FK 61PC 2X58 WVG	T8	G13	1570	140	105	1100	1715038
FK 161PC 1x28	T5	G5	1270	90	105	800	2715050
FK 161PC 1x35	T5	G5	1570	90	105	1100	2715054
FK 161PC 1x49	T5	G5	1570	90	105	1100	2715058
FK 161PC 1x54	T5	G5	1270	90	105	800	2715062
FK 161PC 1x80	T5	G5	1570	90	105	1100	2715066
FK 161PC 2x28	T5	G5	1270	140	105	800	2715052
FK 161PC 2x35	T5	G5	1570	140	105	1100	2715056
FK 161PC 2x49	T5	G5	1570	140	105	1100	2715060
FK 161PC 2x54	T5	G5	1270	140	105	800	2715064

Humidor light strips

Open-distribution humidor light strips with socket screw connection (protection class IP65, SK II).

FK 35, FK 135

Luminaire:

Fibreglass-reinforced, grey polyester housing, socket screw connections.

Electrical equipment:

Electromagnetic ballast (VVG) or electronic ballast (EVG). Quick plug terminal for capacitor, quick rotation fasteners.

FK 35+PR 35

Light FK 35 complete with polycarbonate protective tube PR 35. 38 mm screw connection. Safety fast starter.

FK 35+OS 35

Light FK 35 complete with oval protective tube reflector OS 35, mirror coated inside, grey polycarbonate upper side. Minimum reflector outwards rotation position of 30° with the 2-lamp version.

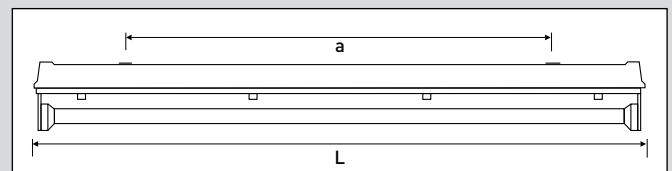
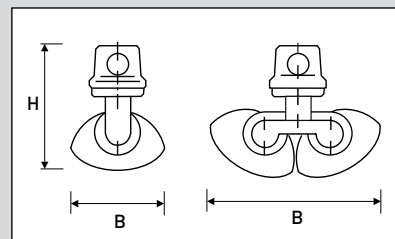
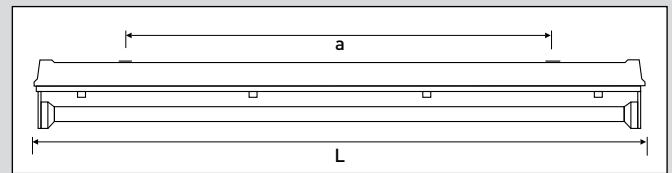
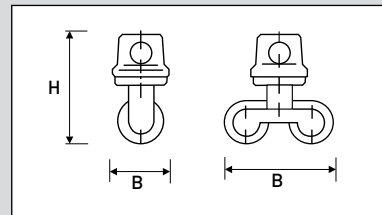
Installation:

The galvanised SV 10 mounting rail is recommended for suspended light strip mounting.

SV 10 with FK 35



FK 35, FK 135

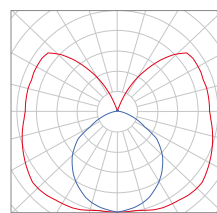


Accessories: page 213



FK 35, FK 135

- open-distribution damp-proof light
- fibreglass-reinforced, grey polyester housing
- socket screw connections

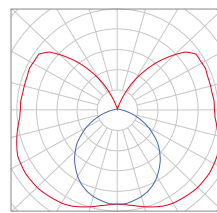


Model	Lamp	Version	Dimensions in mm				Article number
			Length	Width	Height	a	
FK 35 1x18 EVG	T8	G13	654	62	130	450	2710000
FK 35 1x36 EVG	T8	G13	1266	62	130	800	2710002
FK 35 1x58 EVG	T8	G13	1566	62	130	1100	2710004
FK 35 2x36 EVG	T8	G13	1266	126	130	800	2710008
FK 35 2x58 EVG	T8	G13	1566	126	130	1100	2710010
FK 35 1x18 WVG	T8	G13	654	62	130	450	1710001
FK 35 1x36 WVG	T8	G13	1266	62	130	800	1710003
FK 35 1x58 WVG	T8	G13	1566	62	130	1100	1710005
FK 35 2x36 WVG	T8	G13	1266	126	130	800	1710009
FK 35 2x58 WVG	T8	G13	1566	126	130	1100	1710011
FK 135 1x28	T5	G5	1200	62	125	800	2710800
FK 135 1x35	T5	G5	1500	62	125	1200	2710804
FK 135 1x49	T5	G5	1500	62	125	1200	2710808
FK 135 1x54	T5	G5	1200	62	125	800	2710812
FK 135 1x80	T5	G5	1500	62	125	1200	2710816
FK 135 2x28	T5	G5	1200	126	125	800	2710802
FK 135 2x35	T5	G5	1500	126	125	1200	2710806
FK 135 2x49	T5	G5	1500	126	125	1200	2710810
FK 135 2x54	T5	G5	1200	126	125	800	2710814



FK 35+PR 35

- open-distribution damp-proof light
- fibreglass-reinforced, grey polyester housing
- 38 mm screw connections
- safety fast starter
- polycarbonate protective tube



In the EVG version

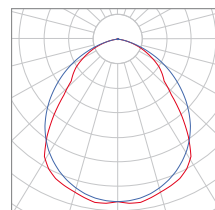
Model	Lamp	Version	Dimensions in mm				Article number
			Length	Width	Height	a	
FK 35 1x18 EVG MIT PR35	T8	G13	654	62	130	450	2710700
FK 35 1x36 EVG MIT PR35	T8	G13	1266	62	130	800	2710702
FK 35 1x58 EVG MIT PR35	T8	G13	1566	62	130	1100	2710704
FK 35 2x36 EVG MIT PR35	T8	G13	1266	126	130	800	2710708
FK 35 2x58 EVG MIT PR35	T8	G13	1566	126	130	1100	2710710
FK 35 1x18 WVG MIT PR35	T8	G13	654	62	130	450	1710700
FK 35 1x36 WVG MIT PR35	T8	G13	1266	62	130	800	1710702
FK 35 1x58 WVG MIT PR35	T8	G13	1566	62	130	1100	1710704
FK 35 2x36 WVG MIT PR35	T8	G13	1266	126	130	800	1710708
FK 35 2x58 WVG MIT PR35	T8	G13	1566	126	130	1100	1710710

Humidor light strips



FK 35+OS 35

- covered damp-proof light
- fiberglass-reinforced, grey polyester housing
- oval protective tube reflector, mirror-coated inside, grey polycarbonate upper side.



In the EVG version

Model	Lamp	Version	Dimensions in mm				Article number
			Length	Width	Height	a	
FK 35 1x18 EVG MIT OS35	T8	G13	654	98	140	450	2710720
FK 35 1x36 EVG MIT OS35	T8	G13	1266	98	140	800	2710722
FK 35 1x58 EVG MIT OS35	T8	G13	1566	98	140	1100	2710724
FK 35 2x36 EVG MIT OS35	T8	G13	1266	185	140	800	2710728
FK 35 2x58 EVG MIT OS35	T8	G13	1566	185	140	1100	2710730
FK 35 1x18 VVG MIT OS35	T8	G13	654	98	140	450	1710720
FK 35 1x36 VVG MIT OS35	T8	G13	1266	98	140	800	1710722
FK 35 1x58 VVG MIT OS35	T8	G13	1566	98	140	1100	1710724
FK 35 2x36 VVG MIT OS35	T8	G13	1266	185	140	800	1710728
FK 35 2x58 VVG MIT OS35	T8	G13	1566	185	140	1100	1710730

Chemical resistance

This table provides an overview of the chemical resistance of the most important materials used in light construction. Later complaints can often be prevented if one finds out during the planning phase where the lights are to be used later. Here, the type and composition of the chemical materials can damage the material in the lights in different temperature ranges. Examples of applications in which material damage can occur:

- a) food processing industry, kitchens, meat-preparing areas, cheese dairies, dairies (including the cleaning agents used here).
- b) in areas in which oils, fats and greases or chlorine vapours are used frequently or direct contact with these substances is possible, trough covers made of PMMA in connection with stainless steel locks must be used.

The figures for chemical resistance refer to an ambient temperature of approx. 22°C.

Chemical materials	Legend			
	● resistant	○ resistant to a more limited extent	- not resistant	X not tested
	Polyester	Acrylic glass (PMMA trough)	Polycarbonate (trough/PC housing)	Noryl
Acetone	-	-	-	-
Aliphatic hydrocarbons	○	○	●	○
Alcohol up to 30%	●	●	●	●
Alcohol, concentrated	○	-	-	●
Ammonia 25%	-	●	-	●
Battery acid	●	●	●	X
Aniline	-	-	-	-
Aromatic hydrocarbons	○	-	-	-
Ether	○	-	-	○
Ethyl acetate (Ester)	-	-	-	●
Benzene	●	●	●	-
Benzene	-	-	-	-
Beer	●	●	●	●
Blood	●	●	●	●
Bromic acid	-	-	-	-
Chloroform	-	-	-	-
Chlorophenol	-	-	-	-
Diesel oil, crude oil	●	●	○	○
Dioxane	●	-	-	-
Acetic acid up to 5%	●	○	●	X
Acetic acid up to 30%	●	-	○	X
Glycerine	●	○	-	-
Glycol	●	●	●	●
Glycantin	●	●	●	X
Carbon dioxide	●	●	●	X
Carbon monoxide	●	●	●	X
Lime milk	●	●	●	X
Saline	●	●	●	●
Ketone	-	-	-	-
Lysol	-	-	-	-
Sea water	●	●	●	●
Methylene chloride	-	-	-	-
Methanol	-	-	-	-
Metal salts and their aqueous solutions	●	●	●	●
Caustic soda 2%	○	●	-	●
Caustic soda 10%	-	●	-	●
Petroleum ether	●	●	○	-
Pyridine	-	-	-	-
Phenol	-	-	-	-

Chemical materials	Legend			
	● resistant	○ resistant to a more limited extent	- not resistant	X not tested
	Polyester	Acrylic glass (PMMA trough)	Polycarbonate (trough/PC housing)	Noryl
Salt peter acid up to 10%	●	●	●	●
10 to 20%	○	○	○	●
over 20%	-	-	-	●
Hydrochloric acid up to 20%	●	●	●	●
from 20%	●	●	○	●
Sulphuric acid up to 50%	●	●	●	●
to 70%	●	○	○	●
from 70%	-	-	-	○
Sulphurous acid up to 5%	○	○	-	-
Hydrogen sulphide	●	●	●	X
Soap suds	●	●	●	●
Soda	●	●	●	X
Synthetic suds	●	●	○	○
Turpentine oil	●	○	○	X
Carbon tetrachloride	●	-	-	X
Water up to 60° C	●	●	●	●
Hydrogen peroxide up to 40%	-	-	○	-
over 40%	-	○	○	-
Xylene	-	-	-	X

Cleaning agents	Legend	
	PMMA	PC
Ajax	●	●
All-purpose adhesive	●	○
Dor	●	●
Fewa	●	●
Setting lotions	●	●
Nail varnish / nail varnish remover	-	-
Perchloroethylene	-	-
Persil	●	○
Plexiklar	●	●
Prit	●	●
Sidolin	●	●
Silicon oil	●	●
Spüli	○	●
Tri	-	-

When cleaning the troughs/housings, it is recommended to use a weak solution of the suitable cleaning material. The use of chemical cleaners is only possible in certain cases; please ask.

Architectural Lighting
Coved and illuminated ceiling lighting
General lighting
Office lighting / lower luminaires
Luminaires for sports facilities
Industrial lighting
Damp-proof lights
Outdoor lighting
Appendix

Humidor trough lights
and humidor light strips

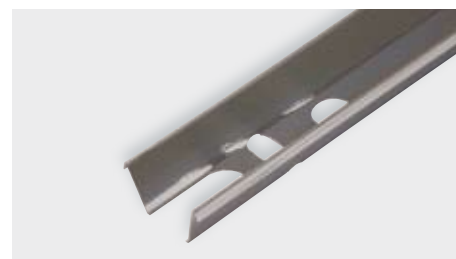
Accessories

**SA 35 Suspension screw**

- plastic with nut
- 2-piece set
- for hanging the FK 35 light with a cable or chain

**VL 35N Feed-through wiring**

- 4 x 1.5 mm²
- with systemic fastening accessories
- 2.5 mm² version on request

**RS 61/161 1-flame**

- mirror insert for 1-flame light FK61/161

**RS 61/161 2-flame**

- mirror insert for 2-flame light FK61/161

Model	Description	Articel number
VL 35/18N	Feed-through wiring 4x1.5 mm ² for FK 35 18W	1710015
VL 35/36N	Feed-through wiring 4x1.5 mm ² for FK 35 36W	1710017
VL 35/58N	Feed-through wiring 4x1.5 mm ² for FK 35 58W	1710019
SA 35	Plastic suspension screws (pair) for mounting the pendant FK 35	1482512
VL 61/36N 5 pol. 1,5 mm ²	Feed-through wiring 5x1.5 mm ² for FK 61/161 36/28/54W	1710089
VL 61/58N 5 pol. 1,5 mm ²	Feed-through wiring 5x1.5 mm ² for FK 61/161 58/35/49/80W	1710090
RS 61/161 1x36/28/54	Mirror insert FK61/161	1710292
RS 61/161 1x58/35/49/80	Mirror insert FK61/161	1710294
RS 61/161 2x36/28/54	Mirror insert FK61/161	1710290
RS 61/161 2x58/35/49/80	Mirror insert FK61/161	1710288
VE 61 K1 SET	Trough lock plastic clip, VPE 10 pcs.	1710084
VE 61 K3 SET	Trough lock, plastic, 3 parts, VPE 10 pcs.	1710085
VE 61 ES1 SET	Trough lock V2A clip, VPE 10 pcs.	1710082
VE 61 ES3 SET	Trough lock V2A 3 parts, VPE 10 pcs.	1710083

Humidor trough lights

FP 45, FW 45

Humidor trough lights (IP54).

Luminaire:

White lacquered reflector lamp socket.
 Fibreglass-reinforced polyester housing.
 Opal PMMA trough (FW 45).
 PMMA trough with prism structure (FP 45).

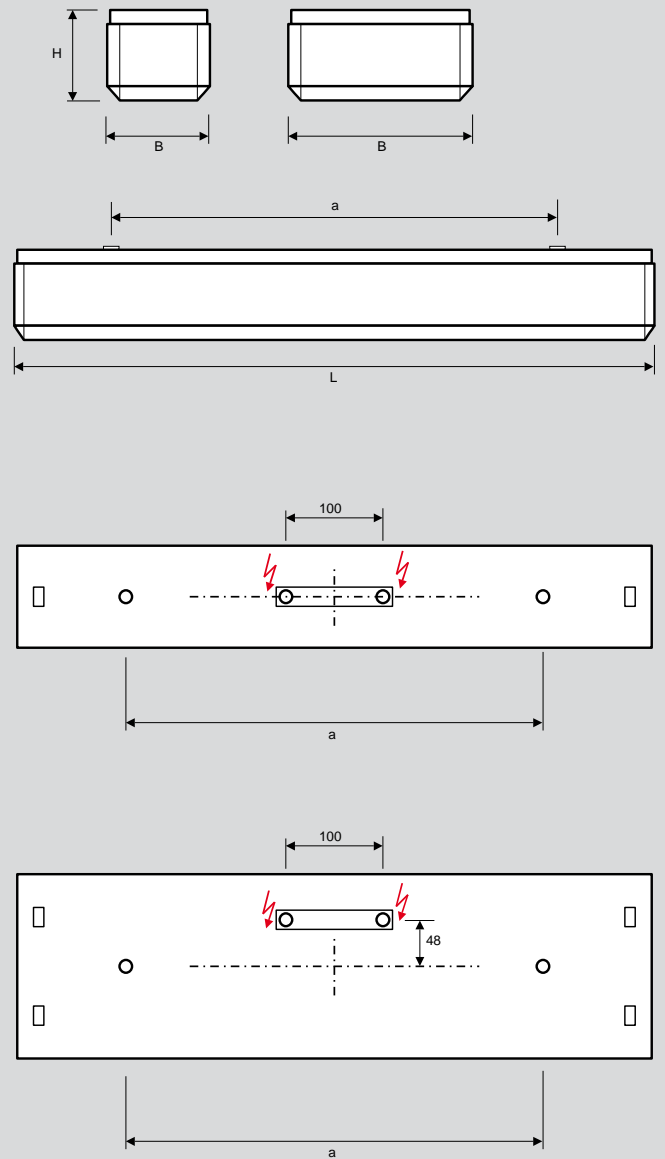
Electrical equipment:

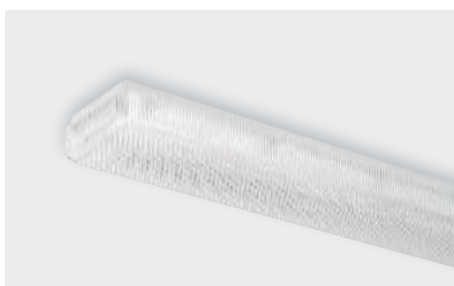
Electromagnetic ballast (WVG) or electronic ballast (EVG) completely on reflector lamp socket.

Installation:

Internal locks.
 The SV 10 galvanised mounting rail is recommended for suspended strip light mounting.

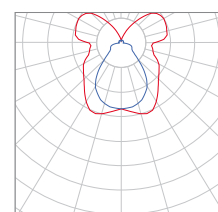
FK 45, FW 45





FP 45

- white, powder coated reflector lamp socket
- fibreglass-reinforced polyester housing
- PMMA trough with prism structure
- VVG or EVG completely on reflector lamp socket

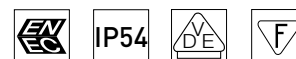
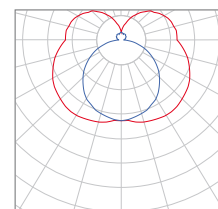


Model	Lamp	Version	AG	Dimensions in mm				Article number
				Length	Width	Height	a	
FP 45 1x18 EVG	T8	G13	EVG	665	106	95	460	2484360
FP 45 1x36 EVG	T8	G13	EVG	1270	106	95	900	2484361
FP 45 1x58 EVG	T8	G13	EVG	1570	106	95	1200	2484362
FP 45 2x36 EVG	T8	G13	EVG	1270	190	95	900	2484363
FP 45 2x58 EVG	T8	G13	EVG	1570	190	95	1200	2484364
FP 45 1x18 VVG	T8	G13	VVG	665	106	95	460	1484360
FP 45 1x36 VVG	T8	G13	VVG	1270	106	95	900	1484361
FP 45 1x58 VVG	T8	G13	VVG	1570	106	95	1200	1484362
FP 45 2x36 VVG	T8	G13	VVG	1270	190	95	900	1484363
FP 45 2x58 VVG	T8	G13	VVG	1570	190	95	1200	1484364



FW 45

- white, powder coated reflector lamp socket
- fibreglass-reinforced polyester housing
- PMMA trough opal
- VVG or EVG completely on reflector lamp socket



Model	Lamp	Version	AG	Dimensions in mm				Article number
				Length	Width	Height	a	
FW 45 1x18 EVG	T8	G13	EVG	665	106	95	460	2484350
FW 45 1x36 EVG	T8	G13	EVG	1270	106	95	900	2484351
FW 45 1x58 EVG	T8	G13	EVG	1570	106	95	1200	2484352
FW 45 2x36 EVG	T8	G13	EVG	1270	190	95	900	2484353
FW 45 2x58 EVG	T8	G13	EVG	1570	190	95	1200	2484354
FW 45 1x18 VVG	T8	G13	VVG	665	106	95	460	1484350
FW 45 1x36 VVG	T8	G13	VVG	1270	106	95	900	1484351
FW 45 1x58 VVG	T8	G13	VVG	1570	106	95	1200	1484352
FW 45 2x36 VVG	T8	G13	VVG	1270	190	95	900	1484353
FW 45 2x58 VVG	T8	G13	VVG	1570	190	95	1200	1484354

Humidor trough lights

FP 65, FW 65

Humidor trough lights (IP54).

Luminaire:

White coated reflector lamp socket.
 Fibreglass-reinforced polyester housing.
 Opal PMMA trough (FW 65).
 PMMA trough with prism structure (FP 65).

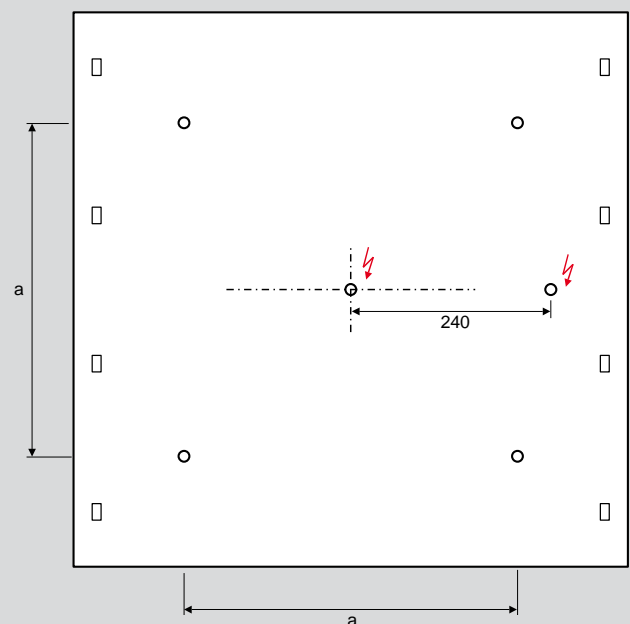
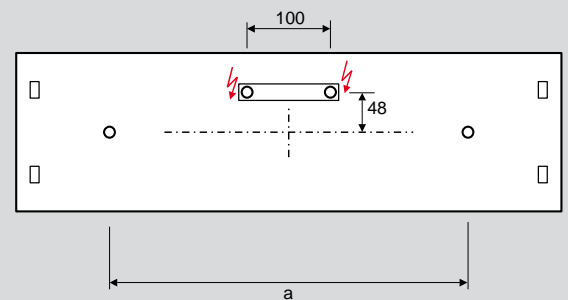
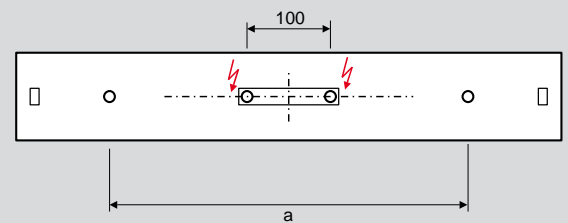
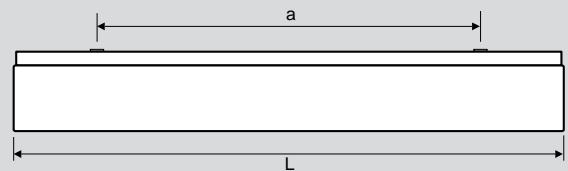
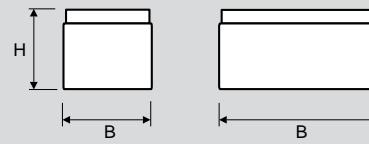
Electrical equipment:

Electromagnetic ballast (WVG) or electronic ballast (EVG) completely on reflector lamp socket.

Installation:

Internal locks.
 The SV 10 galvanised mounting rail is recommended for suspended strip light mounting.

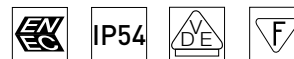
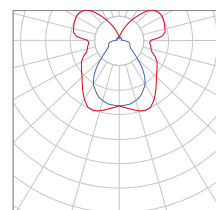
FK 65, FW 65





FP 65

- white, powder coated reflector lamp socket
- fibreglass-reinforced polyester housing
- PMMA trough with prism structure
- WG or EVG completely on reflector lamp socket

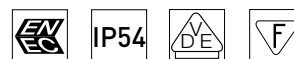
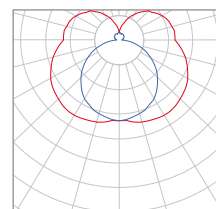


Model	Lamp	Version	AG	Length	Width	Height	a	Weight kg	Article number
FP 65 1x18 EVG	T8	G13	EVG	655	103	120	430	2,3	2710320
FP 65 1x36 EVG	T8	G13	EVG	1260	103	120	740	3,5	2710322
FP 65 1x58 EVG	T8	G13	EVG	1560	103	120	850	4,6	2710324
FP 65 2x36 EVG	T8	G13	EVG	1260	190	100	750	5,8	2710326
FP 65 2x58 EVG	T8	G13	EVG	1560	190	100	900	6,8	2710328
FP 65 4x18 EVG	T8	G13	EVG	640	640	110	420	9,6	2710330
FP 65 1x18 WG	T8	G13	WG	655	103	120	430	2,6	1710320
FP 65 1x36 WG	T8	G13	WG	1260	103	120	740	3,8	1710322
FP 65 1x58 WG	T8	G13	WG	1560	103	120	850	5,3	1710324
FP 65 2x36 WG	T8	G13	WG	1260	190	100	750	6,6	1710326
FP 65 2x58 WG	T8	G13	WG	1560	190	100	900	8,5	1710328
FP 65 4x18 WG	T8	G13	WG	640	640	110	420	10,4	1710330



FW 65

- white, powder coated reflector lamp socket
- fibreglass-reinforced polyester housing
- PMMA trough opal
- WG or EVG completely on reflector lamp socket



Model	Lamp	Version	AG	Length	Width	Height	a	Weight kg	Article number
FW 65 1x18 EVG	T8	G13	EVG	655	103	120	430	2,3	2710300
FW 65 1x36 EVG	T8	G13	EVG	1260	103	120	740	3,5	2710302
FW 65 1x58 EVG	T8	G13	EVG	1560	103	120	850	4,6	2710304
FW 65 2x36 EVG	T8	G13	EVG	1260	190	100	750	5,8	2710306
FW 65 2x58 EVG	T8	G13	EVG	1560	190	100	900	6,8	2710308
FW 65 4x18 EVG	T8	G13	EVG	640	640	110	420	9,6	2710310
FW 65 1x18 WG	T8	G13	WG	655	103	120	430	2,6	1710300
FW 65 1x36 WG	T8	G13	WG	1260	103	120	740	3,8	1710302
FW 65 1x58 WG	T8	G13	WG	1560	103	120	850	5,3	1710304
FW 65 2x36 WG	T8	G13	WG	1260	190	100	750	6,6	1710306
FW 65 2x58 WG	T8	G13	WG	1560	190	100	900	8,5	1710308
FW 65 4x18 WG	T8	G13	WG	640	640	110	420	10,4	1710310

Project solution



- Architectural lighting
- Coved and illuminated ceiling lighting
- General lighting
- Office lighting / lower luminaires
- Luminaires for sports facilities
- Industrial lighting
- Damp-proof lights**
- Outdoor lighting
- Appendix



Pole mounting lights

Outdoor lighting

For wall and pole mounting

Whether used on poles or walls, these lights fulfil all the requirements one can make on the quality of light and design.

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting /
louvre luminaires

Luminaires for
sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Pole mounting lights

Robust outside light with energy-saving LED technology for mounting on poles or walls, IP 65.

FL 150 LED

Luminaire:

Cast aluminium housing, powder-coated RAL 9006.
Cover made of stable, UV stable polycarbonate

Optics:

Mirror optics with best light distribution for the LED module.

Electrical equipment:

Electronic converter.

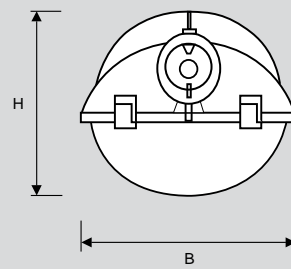
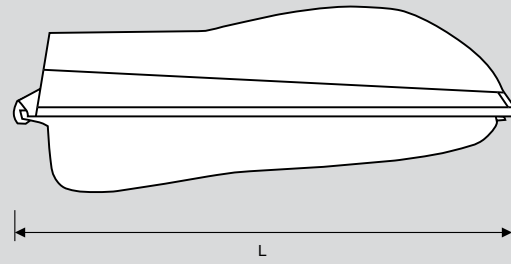
Installation:

Universal connection made of cast aluminium for projection mounting, \varnothing 42-60 mm.
Stainless steel clip for easy mounting and maintenance.

Wind surface area:

The wind surface area is 0.068 m².

FL 150 LED

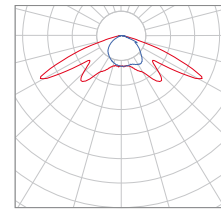


Accessories: page 226



FL 150 LED

- cast aluminium housing
- cover made of stable, UV stable polycarbonate
- optimised for Fortimo LED module in terms of lighting technology
- for projection mounting



Model	Lamp	CCT* k	Luminous flux lm	Colour ren- dering index	Dimensions in mm			Weight kg	Article number
					Length	Width	Height		
FL 150 LED 1800/730	LED-Fortimo	3000	1800	70	600	260	220	5,90	2560010
FL 150 LED 1800/740	LED-Fortimo	4000	1800	70	600	260	220	5,90	2560012
FL 150 LED 3000/730	LED-Fortimo	3000	3000	70	600	260	220	5,90	2560014
FL 150 LED 3000/740	LED-Fortimo	4000	3000	70	600	260	220	5,90	2560016
FL 150 LED 4500/730	LED-Fortimo	3000	4500	70	600	260	220	5,90	2560018
FL 150 LED 4500/740	LED-Fortimo	4000	4500	70	600	260	220	5,90	2560020

*Correlated colour temperature

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting /
louver luminaires

Luminaires for
sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Pole mounting lights

Robust outside light for mounting on poles or walls.
Protection class I, IP 66 (SKIL on request).

FN 40**Luminaire:**

Cast aluminium housing, powder-coated RAL 9006.
 Cover made of stable, UV stable polycarbonate.

Optics:

Mirror optics with anodised aluminium.

Electrical equipment:

Electromagnetic ballast.
 For sodium vapour high-pressure lamps.

Installation:

Universal connection made of cast aluminium for mast-top and side-entry mounting, \varnothing 46-60 mm.
 Quick-release fastener for easy mounting and maintenance.

Wind surface area:

The wind surface area is 0.098 m².

FC 40**Luminaire:**

Cast aluminium housing, powder-coated RAL 9006.
 Cover made of stable, UV stable polycarbonate.

Optics:

Mirror optics with anodised aluminium.

Electrical equipment:

Electronic ballast.
 For the metal halogen vapour lamp, "MASTER CosmoWhite CPO-TW".

Installation:

Universal connection made of cast aluminium for mast-top and side-entry mounting, \varnothing 46-60 mm.
 Quick-release fastener for easy mounting and maintenance.

Wind surface area:

The wind surface area is 0.098 m².

Philips MASTER CosmoWhite CPO-TW**Lampe:**

Metal halogen vapour lamp with ceramic burner.

Features:

Robust ceramic burner for long life, PGZ12 socket for optimised and reproducible lamp positioning, dimmable on the EVG approved for it.

Benefits:

An attractive, warm white light with good colour rendering index and very high energy efficiency enables energy costs to be reduced considerably.

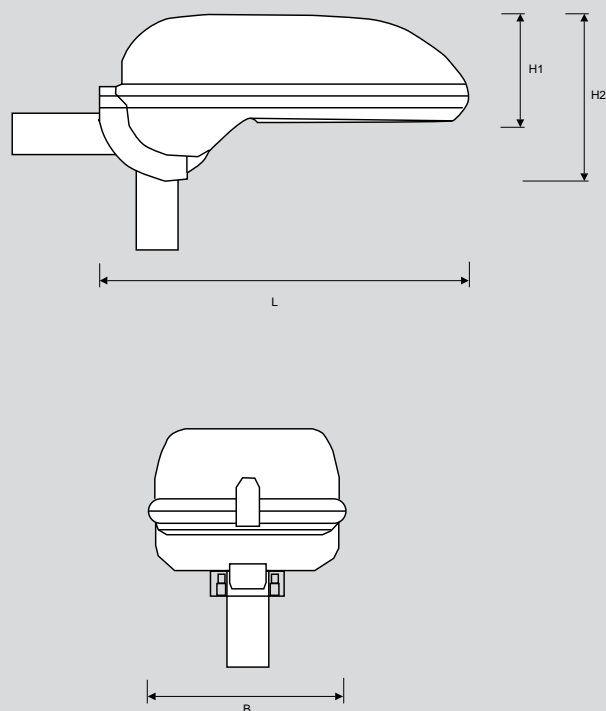
A robust system specially developed for outside lighting with a lamp and EVG, compact size and unique type of burner enable an improved light design with optimum light redirection.

Long and reliable life: 16,000 hours with 10% failure.

Environment:

An extremely environmentally friendly product, extremely low mercury content, lead free and conforms to RoHS.

FN 40, FC 40

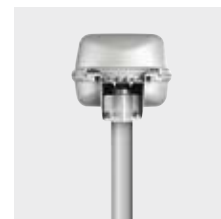
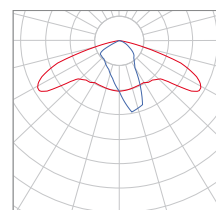


Accessories: page 226



FN 40

- mirror optics with anodised aluminium
- direct light beam
- cast aluminium housing, powder-coated RAL 9006
- cover made of stable, UV stable polycarbonate
- universal connection made of cast aluminium for mast-top and side-entry mounting, Ø 46-60 mm

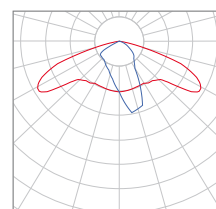


Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height 1	Height 2		
FN 40 1x70	HSE	E27	540	286	158	248	7,44	1620110
FN 40 1x150	HSE	E40	540	286	158	248	8,71	1620112



FC 40

- mirror optics with anodised aluminium
- direct light beam
- cast aluminium housing, powder-coated (RAL 9006)
- cover made of stable, UV stable polycarbonate
- universal connection made of cast aluminium for mast-top and side-entry mounting, Ø 46-60 mm



Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height 1	Height 2		
FC 40 1x45	HIT-CE-od	PGZ12	540	286	158	248	6,97	1620114
FC 40 1x60	HIT-CE-od	PGZ12	540	286	158	248	6,97	1620116
FC 40 1x90	HIT-CE-od	PGZ12	540	286	158	248	6,97	1620118
FC 40 1x140	HIT-CE-od	PGZ12	540	286	158	248	6,97	1620120



Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting / lower luminaires

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Pole mounting lights

Robust outside light for mounting on poles or walls, protection class II, IP 43 (ballast housing) or IP 65 (lamp housing).

FN 30, FN 35

Luminaire:

UV-resistant housing made of fibreglass-reinforced polyester.
Cover made of stable, impact-resistant polycarbonate.

Optics:

Mirror optics with best light distribution for ellipsoid and tube lamps.

Electrical equipment:

Electromagnetic ballast.
Parallel compensated as standard.
For sodium vapour-high-pressure lamps or halogen metal vapour high-pressure lamps without an ignition device MZ or sodium vapour-high-pressure lamps with integrated ignition device OZ.

Installation:

Universal connection made of cast aluminium for mast-top and side-entry mounting \varnothing 42-60 mm.
Quick-release fastener for easy mounting and maintenance.

FQ 30, FQ 35

Luminaire:

UV-resistant housing made of fibreglass-reinforced polyester.
Cover made of stable, impact-resistant polycarbonate.

Optics:

Mirror optics with best light distribution for ellipsoid and tube lamps.

Electrical equipment:

Electromagnetic ballast.
Parallel compensated as standard.
With switchable ballast von 80 W / 125 W or 250 W.
For mercury vapour high-pressure lamps.

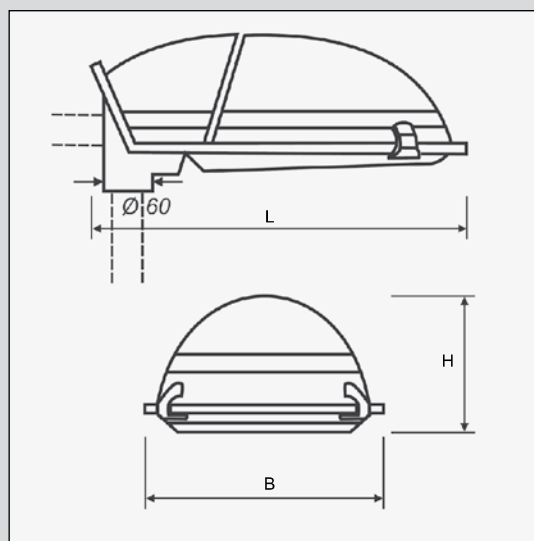
Installation:

Universal connection made of cast aluminium for mast-top and side-entry mounting \varnothing 42-60 mm.
Quick-release fastener for easy mounting and maintenance.

FN 30 Combo pack

The extra-value complete solution including mounting accessories.

FN 30/35, FQ30/35



Accessories: page 226

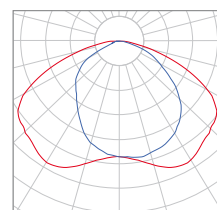
Adjustable mounting support





FN 30, FN 35

- UV-resistant housing made of fibreglass-reinforced polyester
- Cover made of stable, impact-resistant polycarbonate
- for sodium vapour high-pressure lamps and halogen metal vapour high-pressure lamps
- for mast-top and side-entry mounting
- by adjusting the socket, ellipsoid or tube lamps can be used

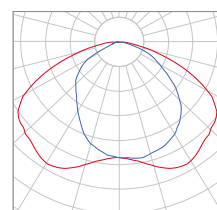


Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			Length	Width	Height		
FN 30 1x70 OZ	HSE-I	E27	510	300	200	4,30	1483041
FN 30 1x70 MZ	HSE / HIE	E27	510	300	200	4,30	1483043
FN 35 1x150	HSE / HIE	E40	625	375	220	5,90	1483045

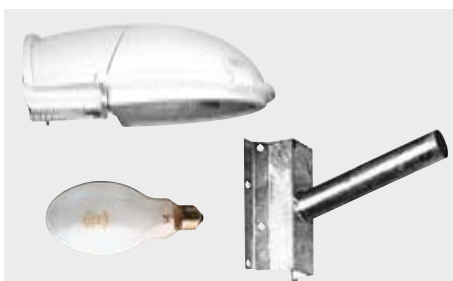


FQ 30, FQ 35

- UV-resistant, fibreglass-reinforced polyester housing
- Cover made of stable, impact-resistant polycarbonate.
- for mercury vapour high-pressure lamps
- for mast-top and side-entry mounting
- by adjusting the socket, ellipsoid or tube lamps can be used

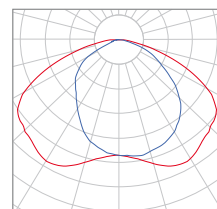


Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			Length	Width	Height		
FQ 30 1x80/125	HME	E27	510	300	200	4,30	1483033
FQ 35 1x250	HME	E40	625	375	220	6,80	1483035



FN 30 Kombipack

- outside light FN 30 1x70 MZ
- sodium vapour or halogen metal vapour high-pressure lamp with 70W
- universal extended arm UA 60
- metal drive-in dowel with screw



Model	Lamp	Version	Dimensions in mm			Weight kg	Article number
			Length	Width	Height		
FN 30 1x70 Kombipack	HSE	E27	510	300	200	5,50	1483056
FN 30 1x70 Kombipack	HIE	E27	510	300	200	5,50	1483058

Pole mounting lights

Accessories

**MA 76-60**

- hot galvanised pole mount supports, \varnothing 60 x 190 mm for pole top 76 mm
- for FN/FQ 30/35, FN/FC 40, FL 150 LED

**MA 76-60-2**

- hot galvanised pole mount supports, each 180°, for pole top 76 mm
- for FN/FQ 30/35, FN/FC 40, FL 150 LED

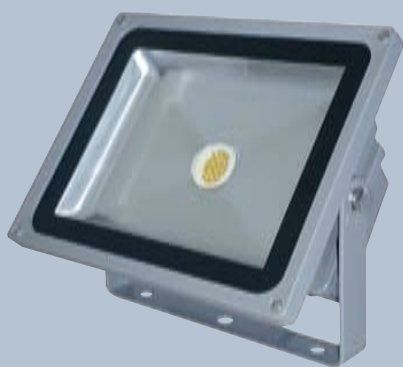
**UA 60**

- hot galvanised universal extended arm including metal drive-in dowel with screws for wall, building ceiling and wooden pole
- for FN/FQ 30/35, FN/FC 40, FL 150 LED

**MR 76/60**

- hot galvanised pole mount supports, \varnothing 60 x 190 mm for pole top 76 mm
- for FN/FQ 30/35, FN/FC 40, FL 150 LED

Model	Description	Article number
MA 76-60	Pole mount supports for pole top \varnothing 76 mm, hot galvanised	1483013
MA 76-60-2	Pole mount supports 2-fach for pole top \varnothing 76 mm, hot galvanised	1483017
UA 60	Universal extended arm for wall mounting, hot galvanised	1483012
MR 76/60	Pole cutter for reducing the pole tops from \varnothing 76 mm to \varnothing 60 mm	1483015



Outdoor spotlight

Outdoor lighting

Can be used outside and inside

For direct light or as an uplight, optimised for different types of lamp.

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting /
louver luminaires

Luminaires for
sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Outdoor spotlight

Robust, symmetrical-beam lights for indoors and outdoors. Perfect for public places and in front of buildings.

FL 100 LED

Luminaire:

Die-cast aluminium, silver powder-coated.
Surface-hardened safety glass cover.

Reflector:

Reflector made of aluminium.
Wide-beam light distribution.

Electrical equipment:

Electronic converter.
LED Type: Philips Fortimo-SLM.

Installation:

Fastening with an adjustable retaining bracket.
Inclination of the spotlight can be set.

FL 100 LED RGB

Luminaire:

Die-cast aluminium, silver powder-coated.
Surface-hardened safety glass cover.

Reflector:

Reflector made of aluminium.
Wide-beam light distribution.

Electrical equipment:

Electronic converter.
LED Type: OSRAM OSLON.
DMX control possible with any normally available DMX controller.
Maintenance-free. Ready to connect with mains lead and protective contact plug.

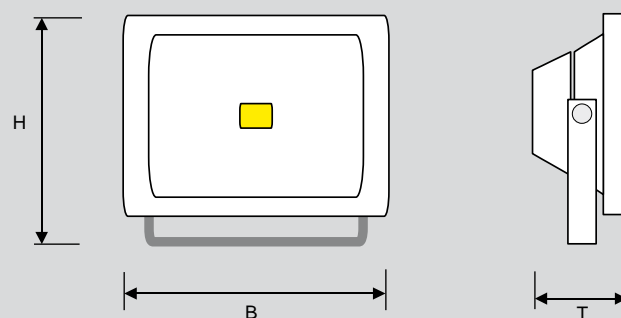
Installation:

Fastening with an adjustable retaining bracket.
Inclination of the spotlight can be set.

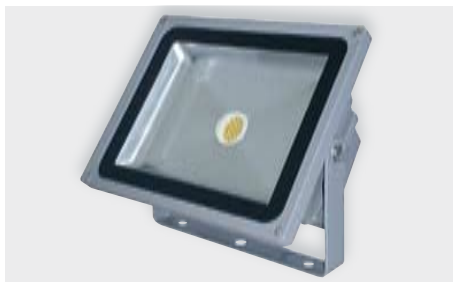
RGB functions:

- static colours, automatic colour change, strobe effect with variable speed, master/ slave operation.
- can be operated via DMX or 2 keys to call up preset sequences or one's own programmes.
- optional synchronisation of up to 30 spotlights in key operating mode.

FL 100 LED

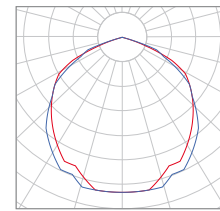


Accessories: page 234



FL 100 LED

- aluminium reflector
- wide beam (80°)
- silver powder-coated die-cast aluminium luminaire
- surface-hardened safety glass cover
- fastening with bracket



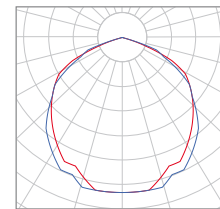
Model	Lamp	CCT* k	Luminous flux lm	Colour ren- dering index CRI	Dimensions in mm			Article number
					Height	Width	Depth	
FL 100 LED 1100/830	LED-Fortimo	3000	1100	80	200	225	130	2560030
FL 100 LED 1100/840	LED-Fortimo	4000	1100	80	200	225	130	2560032
FL 100 LED 2000/830	LED-Fortimo	3000	2000	80	200	225	130	2560034
FL 100 LED 2000/840	LED-Fortimo	4000	2000	80	200	225	130	2560036

*Correlated colour temperature



FL 100 LED RGB

- aluminium reflector
- wide beam (80°)
- silver powder-coated die-cast aluminium luminaire
- surface-hardened safety glass cover
- fastening with bracket



Model	Lamp	Light colour k	Luminous flux lm	Colour ren- dering index CRI	Dimensions in mm			Article number
					Height	Width	Depth	
FL 100 LED RGB 1465	OSRAM OSOLON	RGB	max. 1465		200	225	130	2560040

*Correlated colour temperature

Outdoor spotlight

FQ 50, FQ 51

Robust, asymmetrical-beam lights for indoor and outdoor use.

Luminaire:

Die-cast aluminium, white aluminium, powder-coated (similar to RAL 9006).
Surface-hardened safety glass cover.
Protection class IP 65.

Reflector:

Reflector made of aluminium with hammer effect surface.

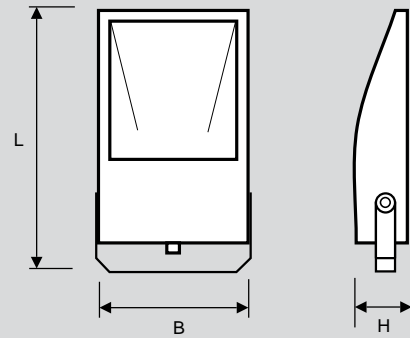
Electrical equipment:

Electromagnetic ballast.
Compensated as standard.
Cable entry through available screw connection.

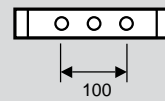
Installation:

Fastening with bracket (FQ 50).
Fastening with console with mounting apertures (FQ 51).
Inclination of the lights can be set.

FQ 50

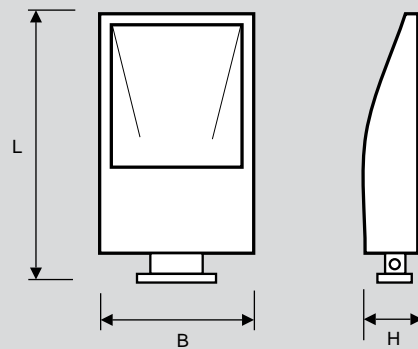


Attachment

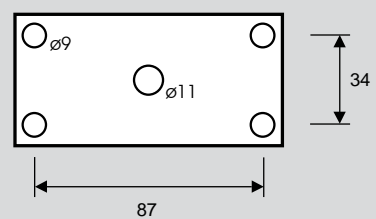


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FQ 51



Attachment

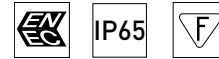
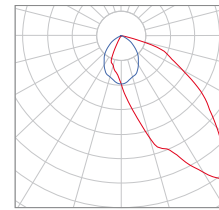


Accessories: page 234



FQ 50

- luminaire made of cast aluminium, white aluminium powder-coated (similar to RAL 9006)
- surface-hardened safety glass cover
- for halogen metal vapour high-pressure lamps
- for internal and external use

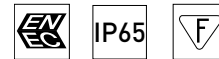
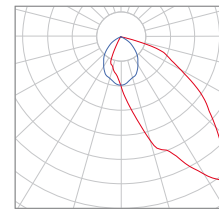


Model	Lamp	Version	Dimensions in mm			Article number
			Length	Width	Height	
FQ 50 1x70 HIT/HST	HIT-DE / HST-DE	RX7s	440	235	80	1620900
FQ 50 1x150 HIT/HST	HIT-DE / HST-DE	RX7s	440	235	80	1620902



FQ 51

- luminaire made of cast aluminium, white aluminium powder-coated (similar to RAL 9006)
- surface-hardened safety glass cover
- for halogen metal vapour high-pressure lamps
- for internal and external use



Model	Lamp	Version	Dimensions in mm			Article number
			Length	Width	Height	
FQ 51 1x70 HIT/HST	HIT-DE / HST-DE	RX7s	440	235	80	1620904
FQ 51 1x150 HIT/HST	HIT-DE / HST-DE	RX7s	440	235	80	1620906



EVG: electronic ballast; VWG: electromagnetic ballast

Outdoor spotlight

Robust, symmetrical-beam lights for internal and external use.

FQ 70

Luminaire:

Die-cast aluminium, black powder-coated (similar to RAL 9005).
Surface-hardened safety glass cover.

Reflector:

Reflector made of aluminium with hammer effect surface.
Asymmetrical light distribution.

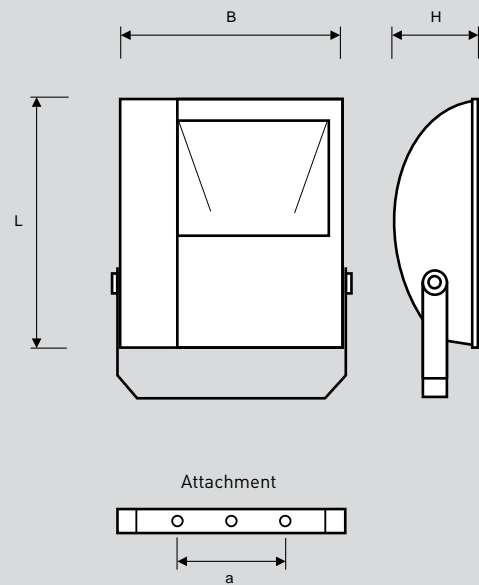
Electrical equipment:

Electromagnetic ballast.
Compensated as standard.
(EVG on request)
Cable entry through available screw connection.

Installation:

Fastening with bracket.
Inclination of spotlight can be set.

FQ 70

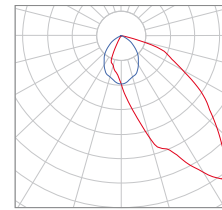


Accessories: page 234



FQ 70

- aluminium reflector with hammer effect surface
- asymmetrical beam
- black powder-coated die-cast aluminium luminaire (similar to RAL 9006)
- surface-hardened safety glass cover
- fastening with bracket



FQ 70 400 W



Model	Lamp	Version	Dimensions in mm				Weight kg	Article number
			Length	Width	Height	a		
FQ 70 1x70 HIT/HST	HIT-DE / HST-DE	RX7s	330	280	105	120	4,7	1620920
FQ 70 1x150 HIT/HST	HIT-DE / HST-DE	RX7s	330	280	105	120	5,2	1620922
FQ 70 1x250 HIT/HST	HIT / HST	E40	370	350	129	170	7,8	1620924
FQ 70 1x400 HIT/HST	HIT / HST	E40	460	420	150	170	12,0	1620926



EVG: electronic ballast; VWG: electromagnetic ballast

Outdoor spotlight

Accessories FQ 50, FQ 70 and FL 100 LED

**MA 76 FQ50/70-1**

- hot zinc-galvanised steel pole mount for 76 mm top
- stainless steel fixing screws
- thread for cable gland provided for

**MA 76 FQ50/70-2**

- hot zinc-galvanised steel pole mount for 76 mm top
- stainless steel fixing screws
- thread for cable gland provided for

Model	Description	Article number
MA 76 FQ50/70-1	Pole mount supports, 1 pc., for FQ 50/70, pole top Ø 76 mm, hot zinc-galvanised steel	1498000
MA 76 FQ50/70-2	Pole mount supports, 2 pc., for FQ 50/70, pole top Ø 76 mm, hot zinc-galvanised steel	1498001

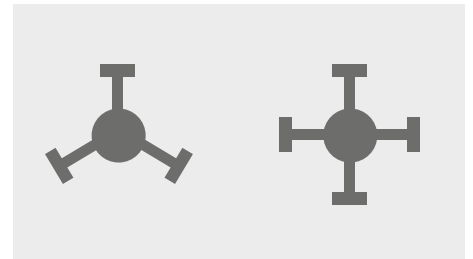
Accessories FQ 51

**MA 76 FQ51-1**

- hot zinc-galvanised steel pole mount for 76 mm top
- stainless steel fixing screws
- thread for cable gland provided for

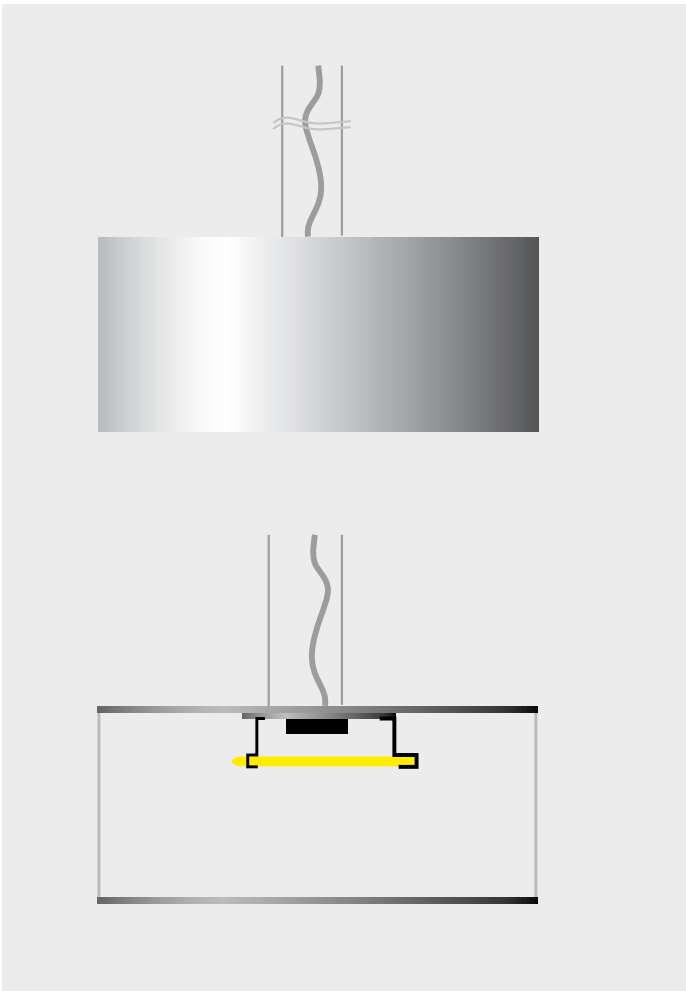
**MA 76 FQ51-2**

- hot zinc-galvanised steel pole mount for 76 mm top
- stainless steel fixing screws
- thread for cable gland provided for

**MA 76 FQ51-3, MA 76 FQ 51-4**

Model	Description	Article number
MA 76 FQ51-1	Pole mount supports, 1 pc., for FQ 50/70, pole top Ø 76 mm, hot zinc-galvanised steel	1498006
MA 76 FQ51-2	Pole mount supports, 2 pc., for FQ 50/70, pole top Ø 76 mm, hot zinc-galvanised steel	1498007
MA 76 FQ51-3	Pole mount supports, 3 pc., for FQ 50/70, pole top Ø 76 mm, hot zinc-galvanised steel	1498008
MA 76 FQ51-4	Pole mount supports, 4 pc., for FQ 50/70, pole top Ø 76 mm, hot zinc-galvanised steel	1498009

Luminaires with material lampshades

**Luminaires with material lampshades**

Ø 900 mm
H: 400 mm
1x T5-R 60W, EVG
Chintz creme lampshade

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting /
louver luminairesLuminaires for
sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

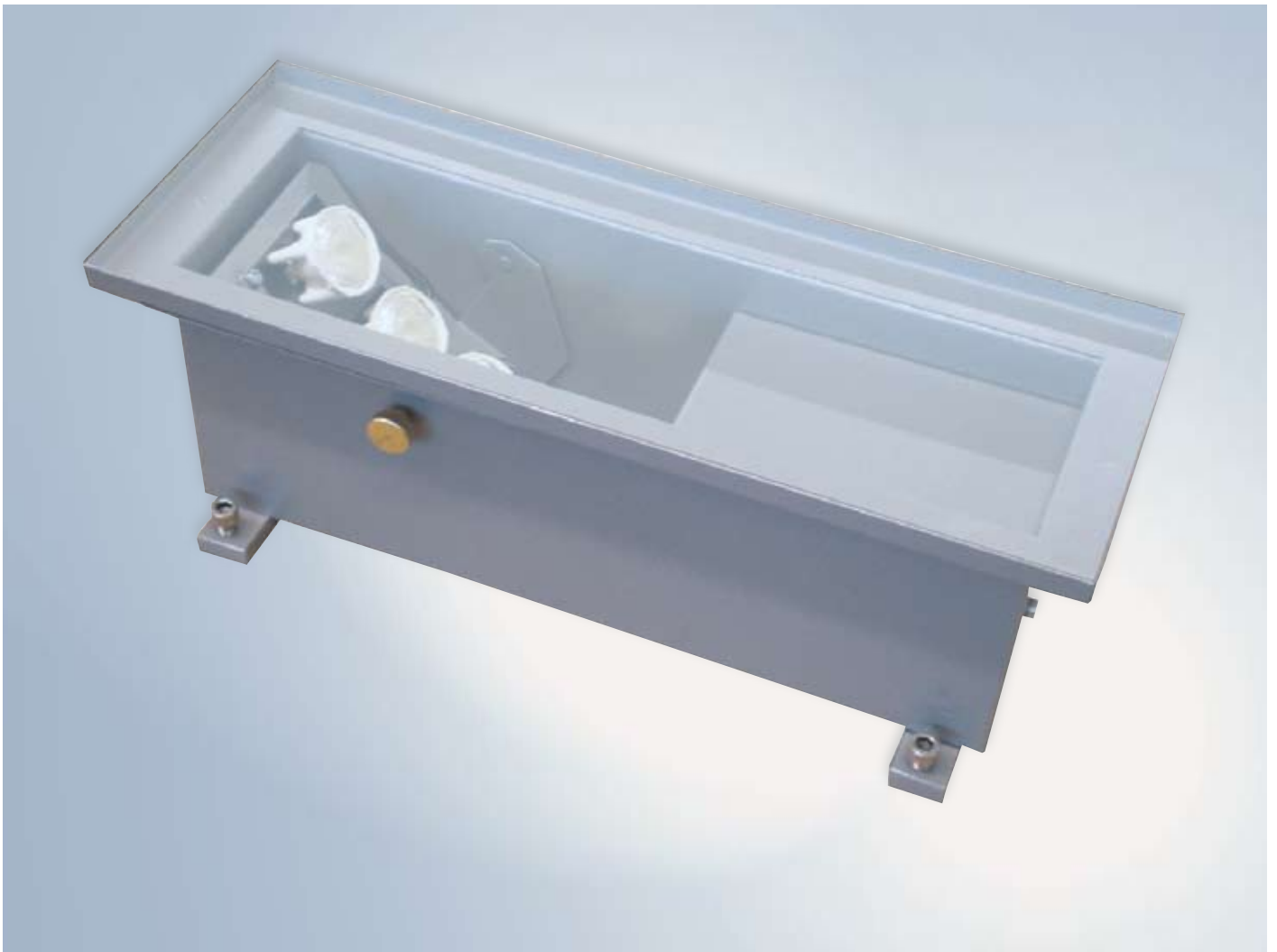
Coffer-type light

Architectural lighting
Coved and illuminated ceiling lighting
General lighting
Office lighting /
louver luminaires
Luminaires for
sports facilities
Industrial lighting
Damp-proof lights
Outdoor lighting
Appendix

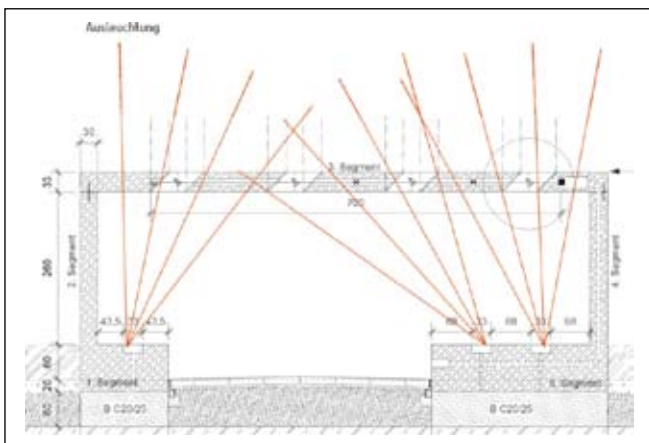
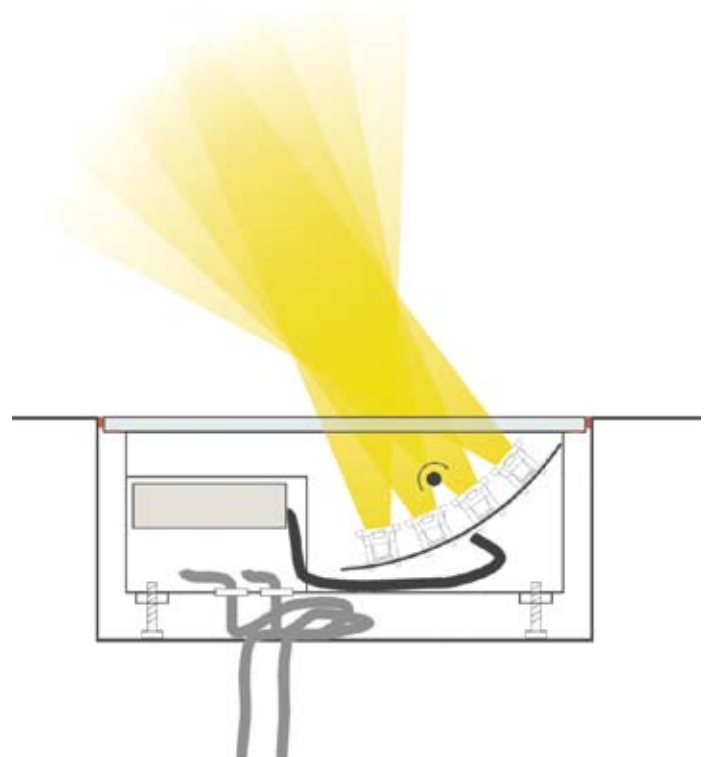


Coffer-type light





LED buried luminaire



Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting / lower luminaires

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Recessed louver luminaire with HIT spot



Recessed louver luminaire with HIT spot



Architectural lighting
Cove and illuminated ceiling lighting
General lighting
Office lighting / louver luminaires
Luminaires for sports facilities
Industrial lighting
Damp-proof lights
Outdoor lighting
Appendix



Hang luminaires for furniture stores



Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting /
louver luminaires

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

ActiLume / OccuPlus / OccuSwitch for DALI-EVG

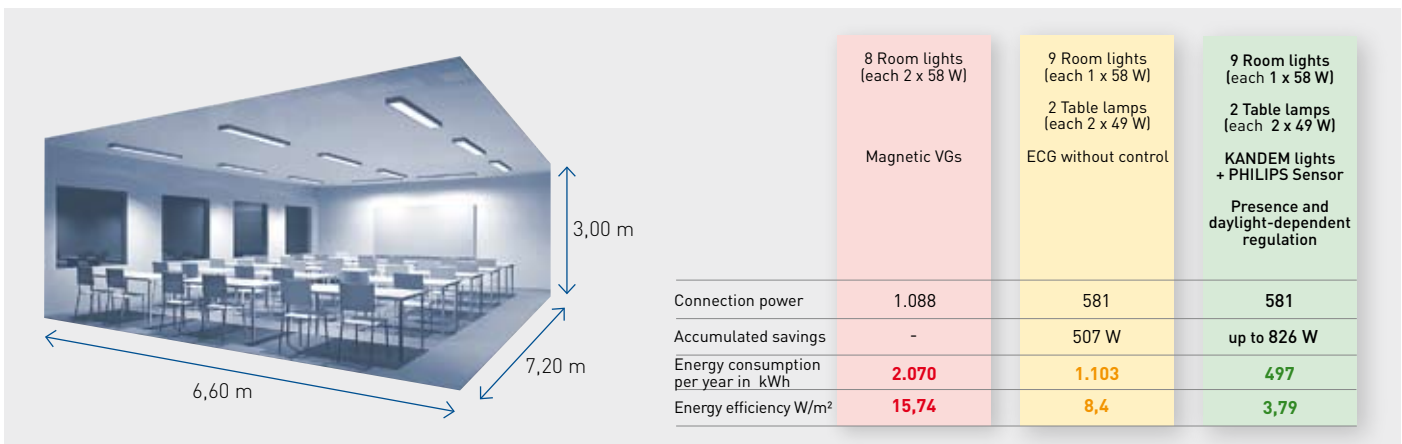
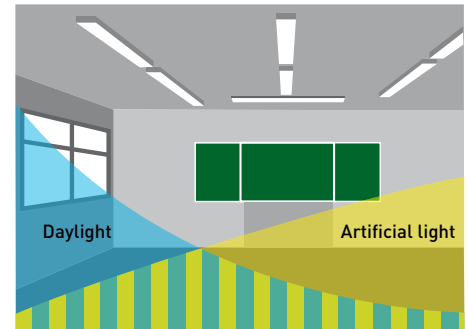
Optimum combinations: Kandem lights and PHILIPS controls

The virtually unlimited possibilities for the combination of Kandem lights and PHILIPS controls provide the optimum solution for nearly all requirements.

Optimum light solutions

Optimum light solutions are comfortable, tried and tested, reliable, easy to use and discreet. They facilitate work or learning, reduce energy consumption and are low-maintenance. Daylight sensors automatically guarantee light conditions and a balanced combination of daylight and artificial light. The lighting can be controlled manually via the IR remote control and installation keys. Precise

individual adjustments can be made comfortably and quickly. A motion detector for presence recognition and a daylight sensor ensure efficient energy management – which is economic, saves costs and saves our resources.



Light-orientated controls:

KANDEM and ActiLume

The PHILIPS ActiLume lighting control system is a small, light sensor and control unit that can be integrated into most KANDEM lights without any problem. Up to 11 EVGs can be controlled. The system is used in arrangements with master and slave lights that are easy to use and install.

The system can be set up for applications with up to 9 lights or applications up to 4 lights simply by operating the mode selection switch. Further applications can be set up using a programming tool. Complicated programming or start-up is not required because the light balance corresponding to the position of the light (near the window or on the corridor side) is pre-programmed.

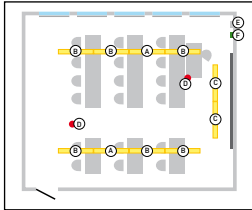
ActiLume: for optimum light-orientated control of KANDEM lights

- sensor for installation in the light
- control depending on daylight and persons present
- all settings via IR remote controls
- manual sensor control via installation keys and/or IR remote control.



Room-orientated controls: KANDEM and OccuPlus

The OccuPlus sensor is mounted on the ceiling. Up to 15 EVGs can be controlled. Intelligent integration of wall lighting (e.g. board illumination) is also possible with OccuPlus.



OccuPlus is an optimum, room-orientated control of installations with KANDEM lights



- daylight-dependant control depending on light entering the room
- presence-dependent switching on or off of the lighting system
- sensor defaults can be changed with the installation keys and IR remote control
- easy to programme with the IR remote control (without PC)

LRM 2070 Kandem-Art. No. 1486276

Light control for areas without windows: KANDEM and OccuSwitch

OccuSwitch is a presence detector that switches off light in unused areas. This is a simple but effective way of reducing electricity consumption. The combination of KANDEM lights with PHILIPS OccuSwitch is ideal for areas without or a long way from windows.

OccuSwitch is the ideal way to reduce the energy consumption of KANDEM lights effectively



- "overshoot time" can be set between 1 and 30 minutes
- changes can be made using additional button
- the integrated light sensor also permits use in areas where natural light appears
- parallel function, entire areas can be switched on because of detection with only one sensor

LRM 1070 Kandem-Art. No. 1486288

Accessories ActiLume light sensor



Extended sensor LRM 8118/00

Extended sensor for ActiLume for recognising movement in open-plan offices or solutions with light strips.

Kandem Art. No. 1486270



Ceiling rose LRH 8100

For ceiling mounting of the ActiLume-Erweiterungssensoren.

Kandem Art. No. 1486284



Simple tool for Mode selection IRT 8098/00

Simple tool for mode selection with ActiLume (selection of modes 1 and 2), light value calibration, easy to use

Batteries are included in the delivery
Kandem Art. No. 1486216

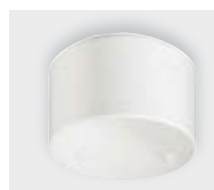


Expanded tool for selection choice IRT 8099/00

Mode selection tool for ActiLume lights. Low-budget tool for adapting illumination strength and changing function modes. Batteries are included in the delivery.

Kandem Art. No. 1486231

OccuPlus accessories – presence and daylight regulator



Ceiling rose LRH 2070

Ceiling rose for ceiling mounting of the OccuPlus (LRM207x, LRM 208x, LRM 209x)

Kandem Art. No. 1486281



IRT 8097 remote control

Simple, user-friendly omniprogram remote control OccuPlus to calibrate illumination level, programme window/corridor lights and test the installation.

Kandem Art. No. 1486282



IRT 8099/10 remote control

Omniprogram remote control for OccuPlus. An easy-to-use, low-budget aid for setting function parameters, calibrating illumination levels and testing the installation.

Kandem Art. No. 1486283

Accessories OccuSwitch – presence detector



Ceiling rose with sensor LRH 1070

Ceiling rose for ceiling mounting of the OccuSwitch (LRM1070, LRM1080)

Kandem Art. No. 1486287

LUXSENSE

Daylight-dependent light control without automatic switchoff: KANDEM and LUXSENSE



Sensor



Sensor with TL-D and TL5 clip

LUXSENSE is a light sensor that is integrated into a light and, together with the adjustable EVG, forms a daylight-dependent light regulation system without automatic switchoff. Mounting takes place directly on the lamp with the appropriate holder or on the louver end slat. The sensor controls up to a maximum of 20 adjustable, fully electronic ballasts of the HF-REGULATOR type. It is connected directly to its 1-10V output.

The desired value of the light regulation is set manually on the adjusting ring. The luminous flux is at a minimum when the lights are switched on. LUXSENSE then turns it up to the preset illumination level.

The combination of KANDEM lights and

LUXSENSE is optimised for applications with illuminances of 600 lux (new value) and 500 lux (nominal value) at an average degree of reflection of the usage plane of 30%.

In lighting systems in which the artificial light should be regulated daylight-dependent without switchoff, it guarantees energy-conscious lighting with good workplace illumination. Its easy mounting makes it the ideal opportunity to construct an energy-optimised installation when renewing the lighting system in combination with an adjustable EVG.

LUXSENSE is a simple, energy-saving light control. It is not suitable for light regulations with tolerances lower than 10% of the set value if the required illumination is far below the installed level, e.g. < 70%, with rooms that differ greatly from each other and in combination with the TL5 holder with TL5 HO lamps.

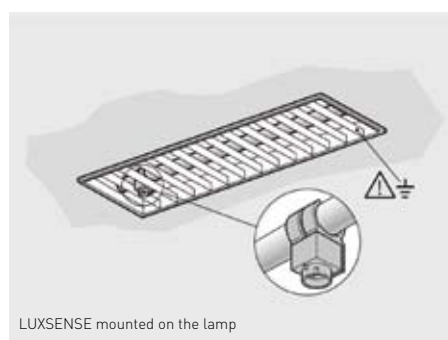
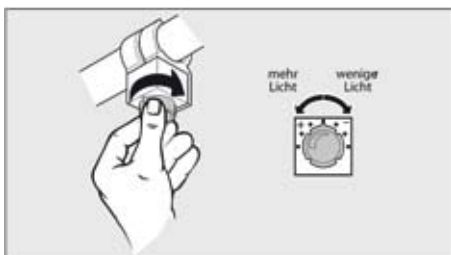
LRL1220/08 sensor with TL5 clip
KANDEM Art. No. 1361223

LRL1220/05 sensor with TL-D clip
KANDEM Art. No. 1361224

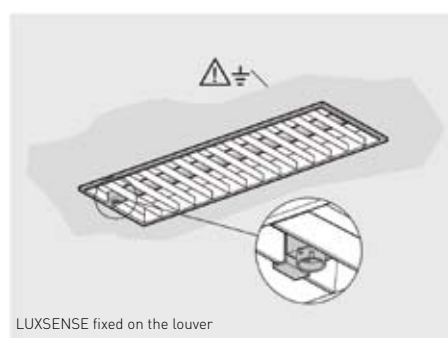
Manual setting

The desired value of the sensors can be changed using the adjusting ring. There is a mark on the housing for the works setting.

Note: the manual setting should take place during operation and then not changed afterwards.



LUXSENSE mounted on the lamp

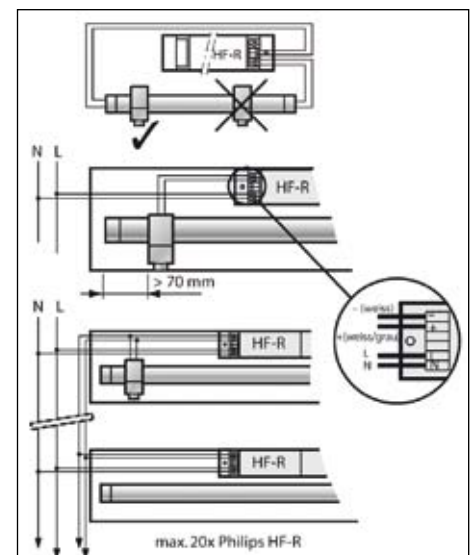


LUXSENSE fixed on the louver

Connection diagram

The sensor is connected to the control input of the Philips HF REGULATOR EVG.

Connecting several lights to one sensor





Emergency lighting element 1H, 3H

In many cases, emergency lighting within the normal lighting is requested. The emergency lighting element and the battery set are built into the light additionally. To charge the battery and switch on the emergency light, one phase must be permanently connected in the light. The light is switched on and off with the connected phase. If the permanently connected phase is interrupted (mains failure), the device

switches to "Battery Operation" and the lamps are operated with a reduced luminous flux via the battery. Depending on the type of device used, emergency lighting is guaranteed for a period of 1 or 3 hours.

Consists of mains monitoring device battery for 1 or 3 hours and a control LED.
For continuous or standby mode.



LED emergency lighting element 1H, 3H

Available on request.



Central battery system

The lights needed for emergency lighting are operated by a battery system installed by the customer if there is a power failure. The changeover switch is operated via two leads. One supply is set up from the "normal luminous flux circuit", the other feeds AC/DC via the central system set up by the customer if there is a mains failure. Via the changeover switch, the EVG feed is operated either with alternate current from the "normal luminous flux circuit"

or via the second supply from the central system with AC/DC. If there is AC/DC on the supply from the central battery system, this is prioritised for supplying the EVGs.

Emergency light

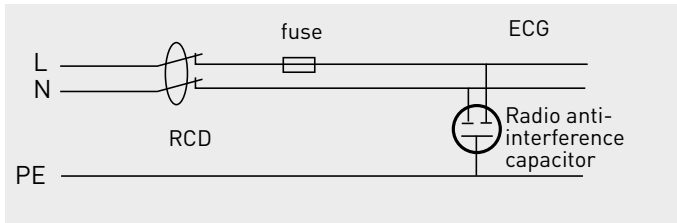
Installation of an emergency light component (provided by the customer), subject to final technical clarification.

General installation guidelines

RCD (ground fault circuit interrupter) and leakage currents

The inrush current, which is very high for a short time, and also the low leakage current, can lead to the RCD being triggered in EVGs with protective wire connection because of the anti-interference capacitors of the EVGs.

This can be avoided by using selective (time-delayed and surge-proof) RCDs (ground fault circuit interrupter). Furthermore, no more than 45 EVGs should be connected to RCDs 30mA leakage current.



Current carrying capacity of 1-phase systems

When a lighting system with EVG is switched on, high, brief current pulses (charging of levelling capacitors) occur. The simultaneous ignition of the lights results in a high inrush current in the system, which reduces the number of lights that can be operated from one circuit breaker.

In the following overview you will find the commonest values for KVG/VVG and EVG. This is only a rough point of orientation because the values depend on the type of EVG and system-specific aspects (such as lead impedance).

The information refers to 1-pole machines with a B-characteristic. The total possible number decreases by 20% when 3-pin machines are used.

The maximum number of lights with EVG operation doubles when machine types with C-characteristic are used. The requirements of VDE 0100 (especially type 410) must be observed.

1-pole machine	Illuminant	KVG/VVG 1-lamp, ind.	KVG/VVG 2-lamp, Duo	KVG/VVG 1-lamp, Parallel com- pensated	EVG 1-lamp	EVG 2-lamp
10Amp.	T 36W	23	23	32	25	17
16Amp.	T 36W	43	43	51	41	28
10Amp.	T58W	15	15	20	17	8
16Amp.	T58W	24	24	33	28	13
10Amp.	FH14-35W	-	-	-	17	17
16Amp.	FH14-35W	-	-	-	28	28
10Amp.	FQ24-54W	-	-	-	17	8
16Amp.	FQ24-54W	-	-	-	28	13
10Amp.	FQ80W	-	-	-	8	5
16Amp.	FQ80W	-	-	-	13	9
		Ind.	Duo	Par.comp.		EVG 3/4-lamp
10Amp.	3/4 x 18W	12	23	16		17
16Amp.	3/4 x 18W	19	36	26		28
10Amp.	3/4 x 14W	-	-	-		17
16Amp.	3/4 x 14W	-	-	-		28

EVGs in 3-phase mode

If the mutual neutral conductor is interrupted with 3-phase wiring and live mains voltage, an excessively high voltage can build up on the lights, which can destroy the EVGs.

In new systems, the loads must not be connected when measuring the insulation resistance, because the test voltage (55V/DC) is applied between the outer conductors and the neutral conductor.

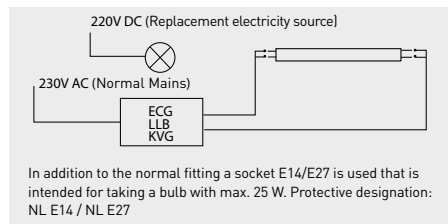
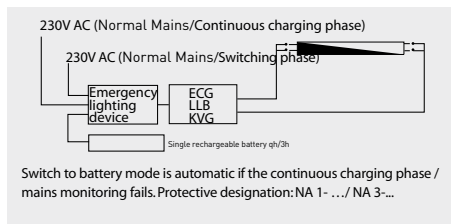
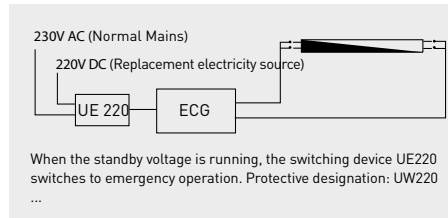
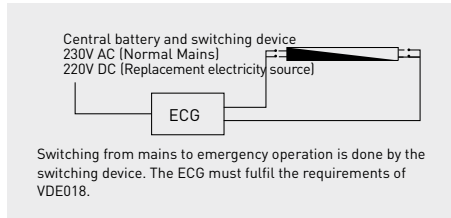
In old systems, it is sufficient to test the insulation between the external conductors and the protective earth without disconnecting the loads.

Opening the neutral conductor clamp is only permitted when the mains supply is switched off.

Make sure there is a proper N-conductor connection before restarting.

Safety lighting

We offer all usual versions for use as safety lighting, from the emergency lamp socket for light bulbs and electronic ballasts to emergency lighting elements with single rechargeable battery.



Requirements of safety lighting according to DIN VDE

Requirement	Examples of structural facilities /rooms or use							
	a	b	c	d	e	f	g	h
Minimum lighting power in lux	1	1	1	1	1	10% von En ¹ E _{min} =15lx		
Switch time (s)	1	1	15	15	15	0,5	1	1
Nominal operating time	3	3	3	1	1	>1/60 ²		
Continuous mode for illuminating escape routes	x	x	x	x	0	0	x	x
Standby power source	1	1,2	1,2,3	1,2,3	1,2,3,4	1,2,4	1	1

¹⁾ See DIN 5035 part 1 and 2, ²⁾ The nominal operating value depends on the duration of the danger

0 = no requirement, X = requirement

a = meeting places, business buildings, exhibition buildings, pubs and restaurants

b = meeting places, pubs and restaurants with a maximum of 20 lights

c = hostels, high-rise buildings, schools

d = closed large garages

e = escape routes in workplaces

f = workplaces with a special risk of danger

g = stages and stage areas

h = maneges, racetracks

1 = central battery group battery, standby units for fast / immediate use

2 = individual battery

3 = emergency power set

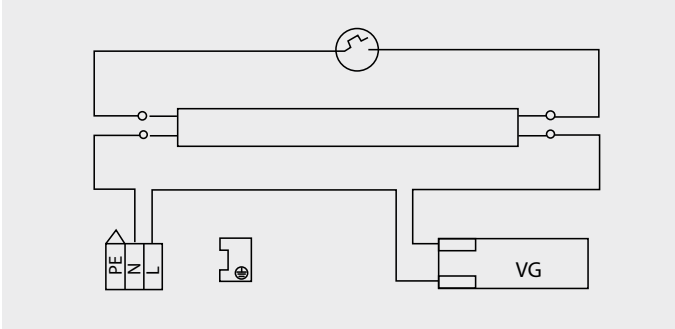
4 = specially secured mains

Capacitor values

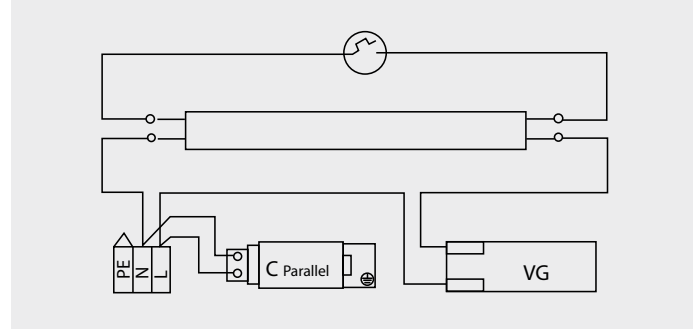
Mains voltage 230V/50Hz	Parallel capacitor +/- 10%	Mains voltage 230V/50Hz	Parallel capacitor +/- 10%
1xT18W	4,5µF/250V	1xTC-L18W	4,5µF/250V
1xT30W	4,5µF/250V	1xTC-L24W	4,5µF/250V
1xT36W	4,5µF/250V	1xTC-L36W	4,5µF/250V
1xT36W-1m	6,5µF/250V	2xTC-L18W	4,5µF/250V
1xT38W	4,5µF/250V	1xTC-S 5/7/9/11W	2,0µF/250V
1xT58W	7,0µF/250V	2xTC-S 5/7/9W	2,0µF/250V
2xT18W	4,5µF/250V	1xTC-D 10/13W	2,0µF/250V
1xTC-L18W	4,5µF/250V	1xTC-D 18W	2,5µF/250V
1xTC-L24W	4,5µF/250V	1xTC-D 26W	3,5µF/250V

Compensation

Inductive contact:



Parallel compensation:



EEI (Energy Efficiency Index)

The Association of European Lights and Ballast Manufacturers CELMA has introduced a classification system for ballasts. CELEMA-EEI differ in parts in value a little from the Europe-wide valid classification of ballasts as laid out in April 2010 according to the EC regulation 245/2009. The classification [A1, A2, ...] indicates the total power of the ballasts-lamp combination. It is indicated on the ballasts and enables better comparison.

Classes have been determined as follows:

- A1:** dimmable EVG
- A2:** cold-start EVG/heating that can be switched off
- A3:** warm-start EVG
- B1/B2:** electromegnetic ballasts

Type	Lamp power		Classification				
	50HZ	HF	A1	A2	A3	B1	B2
T26	18W	16W	≤21/11W	≤19W	≤21W	≤24W	≤26W
	30W	24W	≤33/16,5W	≤31W	≤33W	≤36W	≤38W
	36W	32W	≤38/19W	≤36W	≤38W	≤41W	≤43W
	38W	32W	≤38/20W	≤36W	≤38W	≤43W	≤45W
	58W	50W	≤59/29,5W	≤55W	≤59W	≤64W	≤67W
T16	/	14W	≤19/9,5W	≤17W	≤19W	/	/
	24W	21W	≤26/13W	≤24W	≤26W	/	/
	36W	24W	≤28/14W	≤26W	≤14W	/	/
	/	28W	≤34/17W	≤32W	≤34W	/	/
	/	35W	≤42/21W	≤39W	≤42W	/	/
	/	39W	≤46/23W	≤43W	≤46W	/	/
	/	49W	≤58/29W	≤55W	≤58W	/	/
	/	54W	≤63/31,5W	≤60W	≤63W	/	/
	/	80W	≤92/47,5W	≤88W	≤92W	/	/
TC-L	18W	16W	≤21/10,5W	≤19W	≤21W	≤24W	≤26W
	24W	22W	≤27/13,5W	≤25W	≤27W	≤30W	≤32W
	36W	32W	≤38/19W	≤36W	≤38W	≤41W	≤43W
	/	40W	≤48/24W	≤45W	≤48W	/	/
	/	55W	≤65/32,5W	≤61W	≤65W	/	/
TC-F	18W	16W	≤21/10,5W	≤19W	≤21W	≤24W	≤26W
	24W	22W	≤27/13,5W	≤25W	≤27W	≤30W	≤32W
	36W	32W	≤38/19W	≤36W	≤38W	≤41W	≤43W
TC-D	10W	9,5W	≤13/6,5W	≤11W	≤13W	≤14W	≤16W
	13W	12,5W	≤16/8W	≤14W	≤16W	≤17W	≤19W
	18W	16,5W	≤21/10,5W	≤19W	≤21W	≤24W	≤26W
	26W	24W	≤29/14,5W	≤27W	≤29W	≤32W	≤34W
TC-T	18W	16,5W	≤21/10,5W	≤19W	≤21W	≤24W	≤26W
	26W	24W	≤29/14,5W	≤27W	≤29W	≤32W	≤34W
	/	32W	≤39/20W	≤36W	≤39W	/	/
	/	42W	≤49/25W	≤47W	≤50W	/	/



Architectural lighting

Coved and illuminated ceiling lighting

General lighting



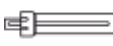








Office lighting /
louver luminaires


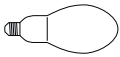








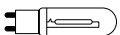

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

	Description (LBS)	Power (W)	Socket	Ra	Possible light colours	Typical luminous flux (lm)	OSRAM	Philips	Sylvania	GE	
Fluorescent bulbs											
	T5 (T16)	14	G5	1B	ww, nw, tw	1220	FH 14 W/8..	TL5 14 W HE/8..	-	-	
	T5 (T16)	21	G5	1B	ww, nw, tw	1890	FH 21 W/8..	TL5 21 W HE/8..	-	-	
	T5 (T16)	28	G5	1B	ww, nw, tw	2610	FH 28 W/8..	TL5 28 W HE/8..	-	-	
	T5 (T16)	35	G5	1B	ww, nw, tw	3290	FH 35 W/8..	TL5 35 W HE/8..	-	-	
	T5 (T16)	24	G5	1B	ww, nw, tw	1760	FQ 24 W/8..	TL5 24 W HO/8..	-	-	
	T5 (T16)	39	G5	1B	ww, nw, tw	3080	FQ 39 W/8..	TL5 39 W HO/8..	-	-	
	T5 (T16)	49	G5	1B	ww, nw, tw	4300	FQ 49 W/8..	TL5 49 W HO/8..	-	-	
	T5 (T16)	54	G5	1B	ww, nw, tw	4400	FQ 54 W/8..	TL5 54 W HO/8..	-	-	
	T8 (T26)	15	G13	1A	ww, tw	750	L 15 W/9..	-	-	-	
	T8 (T26)	15	G13	1B	ww, nw	950	L 15 W/8..	TL-D 15 W/8..	-	-	
	T8 (T26)	16	G13	1A	ww	950	L 16 W/9..	-	-	-	
	T8 (T26)	16	G13	1B	ww, nw	1250	L 16 W/8..	TL-D HF 80 16 W/8..	-	-	
	T8 (T26)	18	G13	1A	ww, nw, tw	1000	L 18 W/..	TL-D 18 W/9..	F18 W/9..	F18 W/9..	
	T8 (T26)	18	G13	1B	ww, nw, tw	1350	L 18 W/..	TL-D 18 W/8..	F18 W/8..	F18 W/8..	
	T8 (T26)	30	G13	1A	ww	1950	L 30 W/9..	-	-	-	
	T8 (T26)	30	G13	2A	tw	1900	L 30 W/7..	-	-	-	
	T8 (T26)	30	G13	1B	ww, nw, tw	2400	L 30 W/8..	TL-D 80 30 W /8..	-	-	
	T8 (T26)	30	G13	2B	nw	1950	L 30 W/6..	-	-	-	
	T8 (T26)	36 (1m)	G13	1A	tw	2600	L 36 W/9..-1	-	-	-	
	T8 (T26)	36 (1m)	G13	1B	ww, nw	3100	L 36 W/8..-1	TL-D 80 1m 36 W /8..	-	-	
	T8 (T26)	36 (1m)	G13	2B	nw	2750	L 36 W/6..-1	-	-	-	
	T8 (T26)	36	G13	1A	ww, nw, tw	2350	L 36 W/..	TL-D 36 W/9..	F36 W/9..	F36 W/9..	
	T8 (T26)	36	G13	1B	ww, nw, tw	3350	L 36 W/..	TL-D 36 W/8..	F36 W/8..	F36 W/8..	
	T8 (T26)	38	G13	1B	ww, nw, tw	3000	L 38 W/..	TL-D 38 W/8..	F38 W/8..	F38 W/8..	
	T8 (T26)	58	G13	1A	ww, nw, tw	3750	L 58 W/..	TL-D 58 W/9..	F58 W/9..	F58 W/9..	
	T8 (T26)	58	G13	1B	ww, nw, tw	5200	L 58 W/..	TL-D 58 W/8..	F58 W/8..	F58 W/8..	
	Compact fluorescent bulbs										
		TC-S	5	G23	1B	ww, nw	250	Dulux S 5 W/..	PL-S 5 W/..2P	CF-S 5 W/..	F5BX/..
TC-S		7	G23	1B	ww, nw	400	Dulux S 7 W/..	PL-S 7 W/..2P	CF-S 7 W/..	F7BX/..	
TC-S		9	G23	1B	ww,nw,tw	600	Dulux S 9 W/8..	PL-S 9 W/8..2P	CF-S 9 W/..	F9BX/..	
	TC-S	11	G23	1B	ww,nw,tw	900	Dulux S 11 W/8..	PL-S 11 W/8..2P	CF-S 11 W/..	F11BX/..	
	TC-SEL	5	G7	1B	ww, nw	250	Dulux S 5 W/..	PL-S 5 W/..4P	CF-SE 5 W/..	F5BX/..4P	
	TC-SEL	7	G7	1B	ww, nw	400	Dulux S/E 7 W/..	PL-S 7 W/..4P	CF-SE 7 W/..	F7BX/..4P	
	TC-SEL	9	G7	1B	ww, nw	600	Dulux S/E 9 W/..	PL-S 9 W/..4P	CF-SE 9 W/..	F9BX/..4P	
	TC-SEL	11	G7	1B	ww, nw	900	Dulux S/E 11 W/..	PL-S 11 W/..4P	CF-SE 11 W/..	F11BX/..4P	
	TC-D	10	G24 d-1	1B	ww, nw	600	Dulux D 10 W/..	PL-C 10 W/..2P	CF-D 10 W/..	F10DBX/..	
	TC-D	13	G24 d-1	1B	ww, nw	900	Dulux D 13 W/..	PL-C 13 W/..2P	CF-D 13 W/..	F13DBX/..	
	TC-D	18	G24 d-2	1B	ww, nw	1200	Dulux D 18 W/..	PL-C 18 W/..2P	CF-D 18 W/..	F18DBX/..	
	TC-D	26	G24 d-3	1B	ww, nw	1800	Dulux D 26 W/..	PL-C 26 W/..2P	CF-D 26 W/..	F26DBX/..	
	TC-DEL	10	G24 q-1	1B	ww, nw	600	Dulux D/E 10 W/..	PL-C 10 W/..4P	CF-DE 10 W/..	F10DBX/..4P	
	TC-DEL	13	G24 q-1	1B	ww, nw	900	Dulux D/E 13 W/..	PL-C 13 W/..4P	CF-DE 13 W/..	F13DBX/..4P	
	TC-DEL	18	G24 q-2	1B	ww, nw	1200	Dulux D/E 18 W/..	PL-C 18 W/..4P	CF-DE 18 W/..	F18DBX/..4P	
	TC-DEL	26	G24 q-3	1B	ww, nw	1800	Dulux D/E 26 W/..	PL-C 26 W/..4P	CF-DE 26 W/..	F26DBX/..4P	
	TC-T	13	GX24 d-1	1B	ww, nw	900	Dulux T 13 W/..	PL-T 13 W/..2P	-	F13TBX/..	
	TC-T	18	GX24 d-2	1B	ww, nw	1200	Dulux T 18 W/.. (IN)	PL-T 18 W/..2P	CF-T 18 W/..	F18TBX/..	
	TC-T	26	GX24 d-3	1B	ww, nw	1800	Dulux T 26 W/.. (IN)	PL-T 26 W/..2P	CF-T 26 W/..	F26TBX/..	
	TC-TEL	13	GX24 q-1	1B	ww, nw	900	Dulux T/E 13 W/..	PL-T 13 W/..4P	-	F13TBN/..4P	
	TC-TEL	18	GX24 q-2	1B	ww, nw	1200	Dulux T/E 18 W/.. (IN)	PL-T 18 W/..4P	CF-TE 18 W/..	T18TBX/..4P	
	TC-TEL	26	GX24 q-3	1B	ww, nw	1800	Dulux T/E 26 W/.. (IN)	PL-T 26 W/..4P	CF-TE 26 W/..	T26TBX/..4P	
	TC-TEL	32	GX24 q-3	1B	ww, nw	2400	Dulux T/E 32 W/.. (IN)	PL-T 32 W/..4P	CF-TE 32 W/..	T32TBX/..4P	
	TC-TEL	42	GX24 q-4	1B	ww, nw	3200	Dulux T/E 42 W/.. (IN)	PL-T 42 W/..4P	-	-	
	TC-TEL	57	GX24 q-5	1B	ww, nw	4300	Dulux T/E 57 W/.. (IN)	PL-T 57 W/..4P	-	-	
	TC-L	18	2 G11	1A	ww, nw, tw	750	Dulux L 18 W/..	PL-L 18 W/..4p	CF-L 18 W/..	F18 BX/..	
	TC-L	18	2 G11	1B	ww, nw	1200	Dulux L 18 W/..	PL-L 18 W/..4p	CF-L 18 W/..	F18 BX/..	
	TC-L	24	2 G11	1A	ww, nw, tw	1200	Dulux L 24 W/..	PL-L 24 W/..4p	CF-L 24 W/..	F24 BX/..	
	TC-L	24	2 G11	1B	ww, nw	1800	Dulux L 24 W/..	PL-L 24 W/..4p	CF-L 24 W/..	F24 BX/..	
	TC-L	36	2 G11	1A	ww, nw, tw	1900	Dulux L 36 W/..	PL-L 36 W/..4p	CF-L 36 W/..	F36 BX/..	
	TC-L	36	2 G11	1B	ww, nw	2900	Dulux L 36 W/..	PL-L 36 W/..4p	CF-L 36 W/..	F36 BX/..	
	TC-L	40	2 G11	1B	ww, nw	3500	Dulux L 40 W/..	PL-L 40 W/..4p	CF-LE 40 W/..	F40 BX/..	
	TC-L	55	2 G11	1A	ww, nw	3000	Dulux L 55 W/..	PL-L 55 W/..4p	-	F55 BX/..	
	TC-L	55	2 G11	1B	ww, nw	4800	Dulux L 55 W/..	PL-L 55 W/..4p	CF-LE 55 W/..	F55 BX/..	
	TC-L	80	2 G11	1B	ww, nw	6000	Dulux L 80 W/..	PL-L 80 W/..4p	-	-	
	TC-F	24	2 G10	1B	ww, nw	1700	Dulux F 24 W/8..	-	-	-	
	TC-F	36	2 G10	1B	ww, nw	2800	Dulux F 36 W/8..	-	-	-	
	PL-H	60	2 G8-1	1B	ww, nw	4000	-	PL-H 60 W/8..	-	-	
	PL-H	85	2 G8-1	1B	ww, nw	6000	-	PL-H 85 W/8..	-	-	

	Description (LBS)	Power (W)	Socket	Ra	Possible light colours	Typical luminous flux (lm)	OSRAM	Philips	Sylvania	GE
Ring-shaped fluorescent bulbs										
	T-R 16 (T-R 5)	22	2 GX13	1B	ww, nw, tw	1800	FC 22	TL 5 C 22 W	-	-
	T-R 16 (T-R 5)	40	2 GX13	1B	ww, nw, tw	3200	FC 40	TL 5 C 40 W	-	-
	T-R 16 (T-R 5)	55	2 GX13	1B	ww, nw, tw	4000	FC 55	TL 5 C 55 W	-	-
	T-R 16 (T-R 5)	60	2 GX13	1B	ww, nw, tw	5000	-	TL 5 C 60 W	-	-
Halogen metal vapour lamps										
	HIE	70	E 27	1B	ww, nw	4500	HQI E 70/..	-	HSI-MP 75 W/..	-
	HIE	100	E 27	1B	ww, nw	8200	HQI E 100/..	-	HSI-MP 100 W/..	-
	HIE	150	E 27	1B	nw	11400	HQI E 150/..	-	HSI-MP 150 W/CL U	-
	HIE	150	E 40	1B	nw	12500	-	CDO-ET	-	-
	HIE	250	E 40	2B	nw	19000	HQI E 250/D	HPI Plus 250 W BU	-	ARC 250/D/H/VBU/960
	HIE	400	E 40	2B	ww, nw	43000	HQI E 400/N	HPI Plus 400 W BU..	HSI-MP 400 W/C/BU	-
	HIT	70	G12	1B	ww, nw	5500	HQI-T 70/..	-	HSI-T 70 W/WDL	ARC 70/T/U/..
	HIT	150	G12	1B	ww, nw	13000	HQI-T 150/..	-	HSI-T 150 W/WDL	ARC 150/T/U/..
	HIT	70	PG 12-2	1B	nw	5300	-	MHN-T 70 W	-	-
	HIT	250	E 40	1A	nw, tw	20000	HQI-T 250/D	HPI-T 250 W	HSI-T 250 W/D	RC 250/T..
	HIT	400	E 40	2B	nw	42000	HQI-T 400/N	HPI-T 400 W	HSI-T 400 W/D	ARC 400/T..
	HIT-DE	70	RX 7s	1B	ww, nw, tw	5000	HQI-TS 70/..	MHN-TD 70 W	HSI-TD 70 W/..	ARC 70/TD/..
	HIT-DE	150	RX 7s-24	1B	ww, nw, tw	11000	HQI-TS 150/..	MHN-TD 150 W	HSI-TD 150 W/..	ARC 150/TD/..
	HIT-DE	250	Fc 2	1B	ww, nw, tw	20000	HQI-TS 250/..	MHN-TD 250 W	HSI-TD 250 W/..	ARC 250/TD/..
	HIT-DE	400	Fc 2	1B	ww, nw, tw	35000	HQI-TS 400/NDL	-	-	-
	HIT-CE	35	G12	1A	nw	3300	HCI-T 35/942 NDL PB	-	-	-
	HIT-CE	35	G12	1A	ww	3100	HCI-T 35/930 WDL PB²	CDM Elite-T 35 W/930	-	-
	HIT-CE	35	G12	1B	ww	3400	HCI-T 35/830 WDL PB	CDM-T 35 W/830	-	-
	HIT-CE	70	G12	1A	nw	6700	HCI-T 70/942 NDL PB	CDM-T 70 W/942	-	-
	HIT-CE	70	G12	1A	ww	6400	HCI-T 70/930 WDL PB	CDM Elite-T 70 W/930	-	CMH 150/T/..
	HIT-CE	70	G12	1B	ww	7000	HCI-T 70/830 WDL PB	CDM-T 70 W/830	-	CMH 70/T/..
	HIT-CE	70	E27	1B	ww	-	-	DO-TT 70/828	-	-
	HIT-CE	150	G12	1A	nw	13700	HCI-T 150/942 NDL	CDM-T 150 W/942	-	-
	HIT-CE	150	G12	1B	ww	14500	HCI-T 150/830 WDL	CDM-T 150 W/830	-	CMH 150/T/..
	HIT-CE	150	G12	1B	ww	4500	HCI-TT 150/830 WDL PB	CDO-TT 150/828	-	-
	HIT-DE-CE	150	RX 7s	1B	nw	14200	HCI-TS 150/942 NDL PB²	CDM-TD 150 W/942	-	-
	HIT-DE-CE	150	RX 7s	1B	ww	14800	HCI-TS 150/830 WDL PB²	CDM-TD 150 W/830	-	-
	HIT-TC-CE	35	G8.5	1A	nw	3200	HCI-TC 35/942 NDL PB²	-	-	-
	HIT-TC-CE	35	G8.5	1A	ww	3000	HCI-TC 35/930 WDL PB²	CDM Elite-TC 35 W/930	-	-
	HIT-TC-CE	35	G8.5	1B	ww	3400	HCI-TC 35/830 WDL PB²	CDM-TC 35 W/830 -	-	-
	HIT-TC-CE	70	G8.5	1A	nw	6300	HCI-TC 70/942 NDL	-	-	-
	HIT-TC-CE	70	G8.5	1A	ww	6300	HCI-TC 70/930 WDL PB	CDM Elite-TC 70 W/930	-	-
	HIT-TC-CE	70	G8.5	1B	ww	6900	HCI-TC 70/830 WDL PB²	CDM-TC 70 W/830	-	-
	HIT-CE-od	45	PGZ 12	C	nw	4300	-	MST CosmoWh CPO-TW 45W	-	-
	HIT-CE-od	60	PGZ 12	C	nw	6900	-	MST CosmoWh CPO-TW 60W	-	-
	HIT-CE-od	90	PGZ 12	C	nw	10450	-	MST CosmoWh CPO-TW 90W	-	-
	HIT-CE-od	140	PGZ 12	C	nw	16500	-	MST CosmoWh CPO-TW 140W	-	-
Mercury vapour lamps										
	HME	50	E 27	2B	ww	1600	HQL 50 Super De Luxe	-	-	-
	HME	50	E 27	3	ww	2000	HQL 50 De Luxe	HPL-Comfort 50 W	HSL-SC 50 W	H50N/DX
	HME	50	E 27	3	nw	1800	HQL 50	HPL-N 50 W	HSL-BW 50 W	H50
	HME	80	E 27	2B	ww	3400	HQL 80 Super De Luxe	-	-	-
	HME	80	E 27	3	ww	4000	HQL 80 De Luxe	HPL-Comfort 80 W	HSL-SC 80 W	H80N/DX
	HME	80	E 27	3	nw	3800	HQL 80	HPL-N 80 W	HSL-BW 80 W	H80
	HME	250	E 40	3	nw	19000	HQL 250 De Luxe	HPL-Comfort 250 W HG	HSL-SC 250 W	HR250NDX
	HME	400	E 40	3	nw	35000	HQL 400 De Luxe	HPL-Comfort 400 W HG	HSL-SC 400 W	HR400NDX
Sodium vapour high-pressure lamps										
	HSE-E	50	E 27	4	ww	3500	NAV-E 50/E	SON 50 W-E	SHP 50 W/CO/E	LU 50/90/D/I
	HSE-E	70	E 27	4	ww	5600	NAV-E 70/E	SON 70 W-E	SHP 70 W/CO/E	LU 70/90/D/I
	HSE	150	E 40	4	ww	14000	NAV-E 150	SON 150 W	SHP 150 W	LU 150/100/D
	HSE	250	E 40	4	ww	25000	NAV-E 250	SON 250 W	SHP 250 W	LU 250/D
	HSE	400	E 40	4	ww	47000	NAV-E 400	SON 400 W	SHP 400 W	LU 400/D
	HST	70	E 27	4	ww	5900	NAV-T 70	SON-T 70 W	SHP-TS 70 W	LU 70/90/T
	HST	150	E 40	4	ww	14500	NAV-T 150	SON-T 150 W	SHP-TS 150 W	LU 150/100/T
	HST	250	E 40	4	ww	27000	NAV-T 250	SON-T 250 W	SHP-TS 250 W	LU 250/T
	HST	400	E 40	4	ww	48000	NAV-T 400	SON-T 400 W	SHP-TS 400 W	LU 400/T
	HST-CRI	50	GX12-1	1B	ww	2400	-	SDW-TG Mini 50 W/825	-	-
	HST-CRI	100	GX12-1	1B	ww	4900	-	SDW-TG Mini 100 W/825	-	-
	HST-DE	70	RX 7s	4	ww	6800	NAV-TS 70 SUPER	-	-	-
	HST-DE	150	RX 7s-24	4	ww	15000	NAV-TS 150 SUPER	-	-	-
	HST-DE	250	Fc 2	4	ww	25500	NAV-TS 250	-	-	-
	HST-DE	400	Fc 2	4	ww	48000	NAV-TS 400	-	-	-
All-purpose bulbs										
	A 60	40	E 27	1A	ww	430	A CL 40/A FR	40 40 W E27 Klar, Matt	40 W E27 Klar, Satin	40A1/FR
	A 60	60	E 27	1A	ww	730	A CL 60/A FR	60 60 W E27 Klar, Matt	60 W E27 Klar, Satin	60A1/CL
	A 60	75	E 27	1A	ww	960	A CL 75/A FR	75 75 W E27 Klar, Matt	75 W E27 Klar, Satin	75A1/CL
	A 60	100	E 27	1A	ww	1380	A CL 100/A FR	100 100 W E27 Klar, Matt	100 W E27 Klar, Satin	100A1/CL

Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting / lower luminaires

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Appendix

Product groups A - Z

A					
AD 157	25	AW 55K	105	DN 68	58
AD 160MP	15	AW 55PC	105	DN 69	59
AD 160W-Q	19	AW 55XL	107	DN 80	63
AD 160W-R	21	AW 60G	103	DN 84	63
AD 168MP-S	11	AW 65	113	DN 87	63
AD 198MP	43	B		DP 50	191
AD 210	39	BA 1	203	DR 20	47
AD 210W	39	BA 55.75	33	DR 30	54
AF 160N	137	BA 70	198	DR3 AW 55K	105
AF 180F	123	BR 55.75	33	DR3	103
AF 50F	129	BR 70	196	DR4 AW 55K	105
AK 10-7	89, 91, 93, 95	C		DV 104 + DR 104	49, 77
AP 145	111	CD 70	197	DV 108 + DR 108	49, 77
AP 165	113	Colour-Tubes colour filters	95	DV 24 + DR 24	47
AP 175 PC	115	D		DV 28 + DR 28	47
AP 45	111	DA 100 LED	77	DV 55.75-3	34
AP 50F	129	DA 30MP	79	DV34 + DR34	51
AP 65	113	DA 30W	79	DV38 + DR38	51
AR 161N	133	DA 50W	81	E	
AR 164N	134	DA 60	83	EB 55.75	35
AR 167N	135	DA 64	83	ED 160W-Q	19
AR 168N	137	DA 67	85	ED 160W-R	21
AR 181F	121	DA 68	85	EF 180	169
AR 184F	121	DB 70	197	EF 80	173
AR 187F	121	DF 60	59	EM 147F	155
AR 188F	123	DG 50	191	EM 147MP	155
AR 51F	127	DN 100 LED	49	EM 40F	155
AR 54F	127	DN 101 LED	49	EM 47MP	155
AR 57F	127	DN 102 LED	49	EP 180	149
AR 61N	133	DN 110 LED	51	EP 180 IP54	149
AR 64N	134	DN 111 LED	51	EP 180-VT	151
AR 67N	135	DN 112 LED	51	EP 80	149
AR 68N	137	DN 20 LED	47	EP 80-VT	151
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2920684	127	2921056	147	2921506	189	3500310	89	5500366	93
2920688	127	2921058	147	2921600	151	3500312	89	5500370	95
2920690	127	2921086	149	2921602	151	3500314	89	5500372	95
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Architectural lighting

Coved and illuminated ceiling lighting

General lighting

Office lighting /
louver luminaires

Luminaires for sports facilities

Industrial lighting

Damp-proof lights

Outdoor lighting

Conditions of delivery and payment Version from September 2007

1. Validity of conditions

The object of the following terms of delivery and payment is the services and supply of goods offered by Kandem Leuchten GmbH.

The following terms of delivery and payment apply to the entire business relationship with our customers. The customer acknowledges these conditions with an order. These conditions also apply to all future business relationships, even when they are not expressly agreed upon again. Any deviating conditions on a customer's order forms are not acknowledged even when the order has been accepted and delivered without reservation; on the contrary, they are hereby expressly contradicted. Deviations from these terms of delivery and payment are only effective when Kandem Leuchten GmbH confirms them in writing to the user.

2. Offers and deliveries

- All offers are non-binding.
- Contracts supplied by our representatives become effective for us either when we confirm them in writing or when we execute the orders.
- If we are prevented from fulfilling our contract on account of procurement, manufacture or delivery problems on our or our suppliers' part arising through, for instance, power failure, traffic disturbance, strike or lockout, the delivery deadline will be extended accordingly. The purchaser can only withdraw from the contract if he sets us an appropriate further deadline after the extended deadline has expired. Withdrawal must be in writing if we do not fulfil the contract within the extended deadline.
- If it becomes impossible for us to fulfil our contract in part or in whole for the reasons named in c) above, we will be released from our deadline.
- We will inform the purchaser immediately of the prevention mentioned in c) and impossibility stated in d) above.
- Demands for compensation on behalf of the purchaser because of delay or non-fulfilment are excluded unless we are guilty of wilful misconduct or gross negligence.
- If the purchaser is in arrears with payment for a previous delivery, we are entitled to withhold deliveries without being liable to replace any damages that may arise.
- We are entitled to carry out partial deliveries.

3. Prices

- All prices are non-binding and do not apply to subsequent deliveries. The gross prices stated in the order confirmation are decisive. We expressly reserve the right to make price changes. Even confirmed prices or delivery agreements can be reset in the case of error or on the basis of availability. Contracts that have already been made are excepted from the reservation of price adjustment or change. When new prices appear, all previous prices become invalid.
- Agreements about bonuses and other benefits will lose their effectiveness if the purchaser suspends payment or there is an unsuccessful foreclosure against him.

4. Payment

- Our invoices are payable within 30 days of the invoice date. But we can also make the delivery depend on immediate payment.
- With cash on delivery, payment in cash, by cheque, bank transfer or direct debit within 14 days of the invoice date we guarantee a discount of 2% as long as there are no other due demands at the time of payment. This is determined by the date we receive the payment. We do not grant any discount on assembly work, initial operations, replacement deliveries or other services.
- We reserve the right to decide on accepting bills and cheques from case to case and only on account of payment. Credit is only granted with the usual reservations. For bills, we charge the usual discount and collection fees. We do not assume any guarantee for punctual collection or protest.
- If a bill or cheque is not cashed on time or circumstances occur on the part of the purchaser that in our opinion no longer justify granting a payment deadline, we can render the entire demand – even if bills or cheques are given – immediately payable.
- Only persons with our written authority to collect or our sales representatives or representatives are entitled to take payments by using our receipt forms.
- Kandem Leuchten GmbH is also entitled to demand interest payable on arrears amounting to 5% above the legal basic rate from consumers according to § 13 BGB as damage caused by delay. In the case of transactions in which a consumer according to § 13 BGB is not involved, Kandem Leuchten GmbH is also entitled to demand interest payable on arrears amounting to 8% above the legal basic rate as damage caused by delay and invoice any possible reminder fees.
- The purchaser is only entitled to set-off or reduction if the counterclaims have been determined by law or are undisputed, even if complaints or counterclaims have been asserted. The customer is only entitled to retain goods because of counterclaims from the same contract.

5) Reservation of title

- Until all demands have been fulfilled (including all balance demands from the current account) that Kandem Leuchten GmbH is or will be owed to by the customer for whatever legal reason, Kandem Leuchten GmbH will be guaranteed the following securities, which will be released by Kandem Leuchten GmbH on demand and at its discretion when their value exceeds the value of the demands by more than 20% for any length of time:
 - Kandem Leuchten GmbH reserves the right to suspend delivery completely or for a limited period of time and to refuse to release the goods at any time if the fulfilment of the demand is in danger or the contractual partner violates one of the duties assigned to it.
 - Goods remain the property of Kandem Leuchten GmbH until they have been paid for in full by the customer. The customer is obliged

to handle the goods with care. Should maintenance and inspection work be required, the customer must carry this out regularly at his own expense.

- Processing or transformation is always carried out for Kandem Leuchten GmbH. If [joint] ownership by Kandem Leuchten GmbH should be dissolved through liaison, the [joint] ownership by the buyer of the same property will be transferred to Kandem Leuchten GmbH in accordance with the calculated value of the share. The customer will keep the [joint] ownership by Kandem Leuchten GmbH safe free of charge.

Goods that Kandem Leuchten GmbH has a right to [joint] ownership are to be referred to in the following as 'conditional commodity' (goods subject to retention of title).

- The customer is entitled to process and sell the 'conditional commodity' in an orderly business manner as long as he is not in arrears.
 - Pledging, assignment of security, and hire or transfer of the goods abroad are not permitted.
 - any demands that arise from a violation of this regulation or any other legal reason (insurance claims, tort) regarding the conditional commodity (including all balance demands from the current account) are to be transferred immediately in full by way of security to Kandem Leuchten GmbH.
 - If any third party is given access to the conditional commodity, the customer must indicate ownership by Kandem Leuchten GmbH and inform the latter immediately in writing. If the third party is not in a position to pay the legal and out-of-court costs of a lawsuit according to § ZPO, the customer will be liable for the losses incurred.
 - If the customer behaves in violation of the contract, Kandem Leuchten GmbH is entitled to pick up the conditional commodity and enter the warehouse or place of use of the conditional commodity to do so without having to declare withdrawal or exercise the rights as set out in § 326 BGB. The customer waives the rights he would be entitled to due to unlawful interference and will allow Kandem Leuchten GmbH access to the area in which the conditional commodity is located. Withdrawal from the contract does not follow from this retrieval and confiscation of the conditional commodity by Kandem Leuchten GmbH.

6. Packaging and delivery

- Goods are delivered in packaging and dispatch units.
- Deliveries are ex works excluding packaging; deliveries from a net order value of € 500 will be free of charge within Germany.
- Kandem Leuchten GmbH will determine the transport company with exclusion from liability for the choice of the cheapest and fastest way to send the goods.
- The consequences of an erroneous or incomplete address given by the customer will be at his expense.
- Special packaging and replacement packaging, e.g. for equipment to be repaired that has been delivered unpackaged, will be invoiced at cost price. Special packaging for certain transport-sensitive articles will be invoiced and remunerated in part or in full after immediate freight-paid return.
- Any special dispatch methods desired by the purchaser, such as express or air freight, will be charged to the customer in full.
- Goods delivered cannot be returned. If a return should be agreed upon after previous agreement in writing, a maximum of 75% of the value invoiced will be returned. Any necessary will be invoiced separately.
- Customised versions cannot be taken back.

7. Risk transfer

Kandem Leuchten GmbH is exempt from the obligation as soon as the goods to be sent have been handed over to the transport company or person or has left the warehouse for the purpose of being transported. The risk of accidental loss or deterioration of the goods on being handed over, in case of mail orders with the delivery of the merchandise to the carrier, the freight carrier or any other person that has been charged with transportation is transferred to the customer, when partial deliveries take place and/or Kandem Leuchten GmbH has assumed transport or delivery costs.

8. Liability for defects and compensation

- The goods will be delivered in the version and condition as is usual for us at the time of delivery.
- Our deliveries must be checked to make sure they are in order immediately on arrival. Any short or incorrect deliveries, or any defects, must be complained about in writing within 14 days of delivery. Defects that are not obvious must be complained about within 6 months.
- Guarantee obligations will become invalid if any interference has been made with or changes made to the goods delivered by the customer or if the customer does not meet our demand to return the complained about object immediately.
- If the complaint is justified, we can choose to eliminate the defects by means of free replacement delivery.
- Any far-reaching liability, especially for damage that has not been made to the goods delivered themselves, is excluded. This does not apply if there is a mandatory liability, for example, in the case of damages to persons or privately used objects in accordance with the Product Liability Act or in cases of wilful misconduct, gross negligence or the lack of guaranteed qualities.
- Goods that have been complained about must be sent to us in appropriate packaging.
- The original guarantee period is not interrupted if the goods delivered are put into operation.

9. Maintenance and repairs

- Maintenance or repair will be without guarantee if there is no defect report.
- Obvious defects regarding faulty operation or repair must be complained about within 2 weeks of receipt of the goods. Defects

that are not obvious must be complained about within 6 months.

- Compensation claims will only be recognised in accordance with 8 e) above.

10. Other claims for compensation

- Any other claims for compensation on the part of the purchaser against us – for whatever legal reason – are excluded.
- This does not apply if there is a mandatory liability, for example, in the case of damages to persons or privately used objects in accordance with the Product Liability Act or in cases of wilful misconduct or gross negligence.

11. Resale

The purchaser is obliged to refrain from any actions that could be seen as dishonest according to valid laws and regulations when selling the goods.

12. Trade mark, export restriction, patent guarantee

- Any changes to our goods, removal of serial numbers and type plates or any special stamp that could be seen as or give the impression of being a mark of origin of the purchaser or any third party are not permitted.
- We assume the responsibility for the goods sold are free from any property rights of third parties in the Federal Republic of Germany. If any third parties wish to assert any justifiable claims from property rights, we will, by our choice and at our expense, either establish a licence for the purchaser or replace the goods sold with ones that are free of property rights or take them back and refund the purchase price. We will be liable for any further claims according to the parameters laid out in 10 above. We will assume no liability for the use of the goods sold not interfering in the property rights of third parties.

13. Business abroad

The conditions of the Hague Agreement on international purchasing contracts will not apply. The substantive law of the Federal Republic of Germany will apply.

14. Validity

- Should one or more of these conditions be invalid, this will not affect the validity of the other conditions. An invalid condition must be replaced, if possible, by means of amendments, with a regulation that comes as close as possible to the original regulation's purpose.
- Changes and amendments to the conditions contained within these terms must be effected in writing. This also applies in particular to this regulation.

15. Place of jurisdiction

The place of jurisdiction for all claims made regarding the contractual relationship – including withdrawal – and any disputes that arise between the customer and Kandem Leuchten GmbH is – including bill and cheque process – Limburg an der Lahn, if the customer is a registered trader, a legal person under public law or a public-law special fund. In this case we can also file a suit at the headquarters of our responsible subsidiary. The law of the Federal Republic of Germany applies to the contractual relationship, especially the regulations of the German Civil and Commercial Codes.

Kandem Leuchten GmbH

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