

Lighting Systems



REGIOLUX

Lighting Systems

functional - effective - efficient

Exclusion of Liability

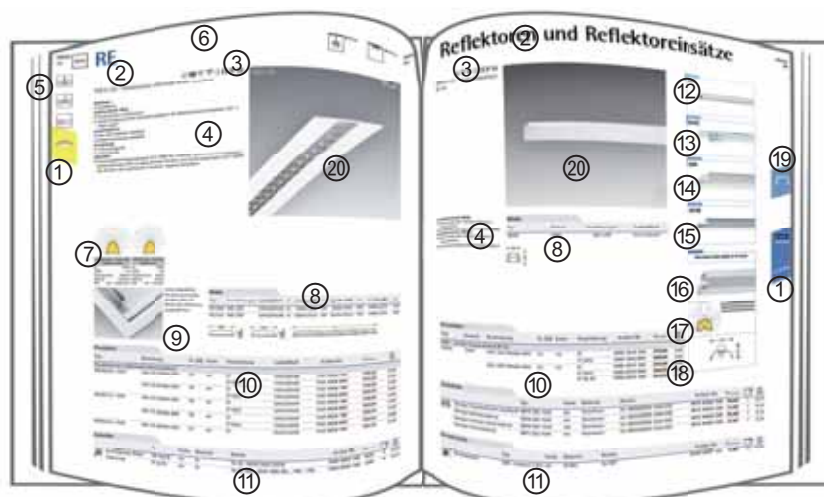
Illustrations, dimensions and weights in our catalogues, price lists and quotations are non-binding. Subject to technical changes, errors and color deviations. All luminaires have been designed for 230V 50Hz mains connection and ambient conditions according to DIN EN 60598 unless otherwise stated, and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

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

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

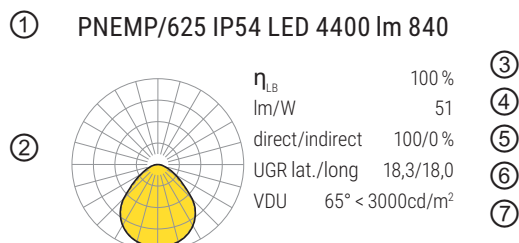


Description of page layout



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

Explanation of lighting technological data



1. Configuration

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

2. Luminous intensity distribution

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

3. Light output ratios η_{LB}

Light output ratios specified for each luminaire are calculated from the relation of luminous flux Φ_L (τ_L) emitted from the luminaire with an ambient luminaire temperature $\tau_L = 25^\circ \text{C}$ and further standardised conditions to the sum of measured luminous flux of the lamps with open distribution transferred individually to the luminaire ballast. In the case of LED luminaires, the principle of absolute photometry is increasingly applied. In this case, the light output ratio is indicated with 100%. Additionally, the luminous flux is indicated in the form of the measured luminous flux of the luminaire.

4. Luminous efficiency

The luminous efficiency is the luminous flux of a bulb or luminaire related to its electrical power consumption. In the case of LED luminaires presented according to the principle of absolute photometry (light output ratio 100%), the indication refers to the lumen output of the luminaire which is described by the ratio between luminous flux of the luminaire and system performance of the luminaire.

5. Direct and indirect light components

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

6. Glare reduction according to UGR method

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

Values given are based upon the following definitions.

Room dimensions:

Distance of eye level to luminaire level: H

Room width X = 4H

Room length Y = 8H

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

Luminaire arrangement parallel to Y axis Luminaire distances:

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

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

Explanation of lighting technological data

7. Suitability for VDU workstations

Here, the suitability of luminaires for VDU workstations according to DIN EN 12464-1 is specified. The degree number means that the luminance in all luminaire planes beyond that angle does not exceed certain limitation values. Depending on screen quality and screen visualisation, the norm specifies different limitation values. In case of a positive display on screens with an own luminance (< 200 cd/m²), a maximum of 1500 cd/m² and in case of screens with a high luminance (> 200 cd/m²), a maximum of 3000 cd/m² is permissible.

Control gear

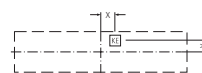
Abbr.	Description
ECG	Electronic ballast
Llb	Low-loss ballast
ind	Inductive, must be compensated on-site
multi	Multiwatt T5
ED	Electronic driver, not dimmable
EDM	Electronic driver Multi, not dimmable (8 or 16 adjustable lighting levels)
DALI	Electronic driver, DALI, dimmable
DALI DT8	Electronic driver, DALI, dimmable, change of light color (Tunable white)
LC.	Device with integrated LC components of special type
M.	Master unit Typ 1-N
S.	Sensor unit Typ 1-N
NL-B1, NL-B3	Emergency light single battery; 1=1h, 3=3h

Explanations

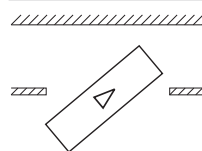
Definition of measurement table variables

Abbr.	Description
A	Distance between the individual luminaires
A1	Fixing distance in case of single mounting
A2	Fixing distance for first or last luminaire in case of light run mounting
A3	Fixing distance for the middle luminaires or between the luminaires in case of light run mounting
A4	Fixing distance (width)
B	Width
D	Diameter
DA	Diameter of cut for recessed luminaires
DA _B	Width of cut for recessed luminaires
DA _L	Length of cut for recessed luminaires
DS min	Minimum ceiling thickness with suspended ceiling
DS max	Maximum ceiling thickness with suspended ceiling
Db	Sensor detection diameter
Dr	Sensor detection diameter ideal movement towards the sensor
Ds	Sensor detection diameter seated activity
Dt	Sensor detection diameter tangential movement parallel towards the sensor
Et	Mounting depth (necessary depth for luminaire mounting)
Et min	Minimum mounting depth (necessary depth for luminaire mounting during ceiling construction)
FB	Width of luminaire groundplate
FD	Diameter of luminaire groundplate
FL	Length of luminaire groundplate
H	Height
HS	Installation height of sensor
KB	Width of luminaire head or ballast box
KD	Diameter of luminaire head or ballast box
KE	Cable infeed
KH	Height of luminaire head or ballast box
KL	Length of luminaire head or ballast box
L	Length
L2	Additional length
MB	Modul (axes) width
ML	Modul (axes) length
P	Suspension length
Pmin	Minimum suspension length
Pmax	Maximum suspension length
P _{Sys}	Luminaire system performance
T	Depth
W	Wall distance
X	Distance from middle of the luminaire to the electrical feed in (X direction = length)
Y	Distance from middle of the luminaire to the electrical feed in (Y direction = width)

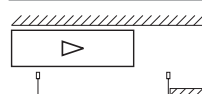
Description of measurement table variables



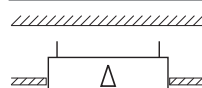
1. Positioning of electrical feed in.



2. Required installation depth "Et" for swivelling of luminaire in visible T rail constructions (lay-in luminaires). Required installation depth "Et" for swivelling luminaire and control gear (if applicable) through ceiling cut-out (clamp mounting).



3. Reduced installation depth "Et min" with aligning of luminaire above T rail construction (during ceiling construction).



4. Required installation depth "Et" for swivelling of mounting bracket (clamp mounting).

Ceiling systems



Ceilings with visible T-rails



For concealed symmetrical rail constructions



For concealed asymmetrical rail constructions



For recessed ceilings



For panel ceilings, module 100, 150, 200

Cross references



Reference accessories



Reference mounting rail installation



Reference mounting note



Reference product groups

Icons / functions features



Configuraton with sensor available



Configuraton with emergency light unit available



Luminaires for HCL (human Centric Lighting)



Luminaires suitable for Advanced Services



Luminaires suitable for IoT (Internet of Things)



LED (included)



Beam angle

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

Colour code	
Abbr.	Colour
al	aluminium
aeH	aluminium high gloss
aeS	aluminium matt gloss
aeN	aluminium natural anodized
ap	aluminium plate finish
am	anthracite metallic
bl	blue
bl/cr	blue chrome
ce	cream
cr	chrome
eg	brushed stainless steel
ge	yellow
ge/cr	yellow chrome
ga	grey
gr	green
hg	light grey
hgl	high gloss
kg	pebble grey, RAL 7032
kgm	pebble grey metallic, RAL 7032
kl	clear
me	metallike
op	opal white
og	orange
ro	red
sw	black, RAL 9005
si	silver
sg	silver-grey, RAL 9006
tz	translucent
tp	transparent
vw	traffic white, RAL 9016
ws	white
wa	white-aluminium, RAL 9006

visula



►69

- 70 VSAIG LED
- 70 VSAIMP LED

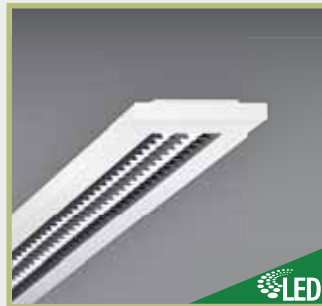
protection



►73

- 74 IPA-PRAG LED
- 74 IPA-PRAMP LED
- 76 PRAMP LED
- 76 PRAG LED
- 76 PRAO LED

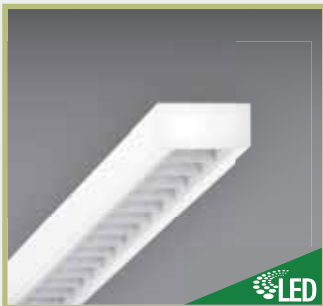
stail



►79

- 80 SAX LED
- 81 SAD T5
- 81 SAX T5

cubus



►99

- 100 RSAGC LED
- 100 RSAXC LED
- 100 RWFAC LED
- 102 RSADC T5
- 102 RSADAC T5
- 102 RMAC T5
- 102 RSAXC T5
- 102 RSAXAC T5
- 102 RWFAC T5

peanut



►105

- 106 corridor-AGI LED

lens pro



►117

- 118 LPAK LED
- 118 LPAKPC LED

lens basic

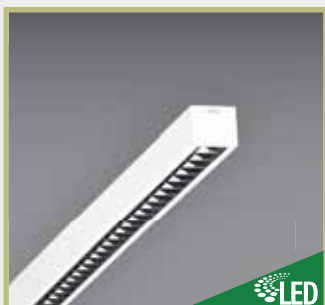


►121

- 122 LBAK T5

Surface-mounted luminaires

hokal



►83

- 84 HLAG LED
- 84 HLAX LED
- 86 HLAG T5
- 86 HLAD T5
- 86 HLAX T5

procube



►89

- 90 CUAX LED
- 90 CUAWF LED
- 94 CUAG T5
- 94 CUAD T5
- 94 CUAX T5
- 94 CUAWF T5

UA



►109

- 110 UAX LED
- 111 UAD T5
- 111 UAX T5
- 111 UAM T5

wotek



►113

- 114 WKO LED

KL



►125

- 126 KLKF LED
- 128 KLKF T8
- 128 KLPF T8

WL



►131

- 132 WBLR LED
- 134 WQL LED



Standing and wall-mounted luminaires

alvia

► 198



LED

smile

► 206



LED

visula

► 203



LED

MLS

► 209



LED



High bay and large area luminaires

cake

► 424



LED

worker

► 434



LED



Sport hall luminaires

sportler

► 466



LED

THL

► 474



LED

Surface-mounted luminaires

from other chapters



Recessed luminaires

panella

► 158



Light strips and furniture luminaires

ilia

► 262



IL

► 265



Quick-fit mounting system

SDT-System

► 289



Damp-proof luminaires

WL

► 445



parsa

► 450



PU

► 454



PA

► 458



PC

► 458





visula



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

- LED surface-mounted luminaire direct distribution
- Tunable white technology for Human Centric Lighting available
- Very shape and lightweight design
- Homogeneous light emission due to LED edge light injection



Type overview

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



►20



►202

►203

LED A++ 3000 19 F CE IP 20

Mounting:

- Ceiling surface

Housing:

- Natural anodised aluminium frame, visible installation height 30mm

Lighting technology VSAIG:

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

Lighting technology VSAIMP:

- Micro-prismatic diffuser; PMMA plastic
- Lighting characteristic direct distribution / indirect distribution for ceiling lighting
- Suitable for VDU workstations, $65^\circ < 3000 \text{ cd/m}^2$, $\text{UGR} \leq 19$ in accordance with DIN-EN 12464-1

Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K
- CRI ≥ 90 / 2700K-6500K continuously adjustable DALI DT8

Switching:

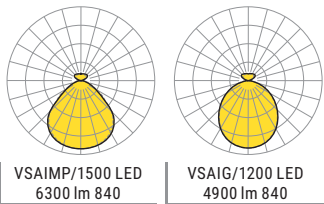
- 1 Controller
- Electronic driver
- 230V 50Hz

Miscellaneous:

- Luminaires with integrated sensors and control available
- Ceiling mounting brackets for simple clip assembly are included in the scope of delivery

Accessories:

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



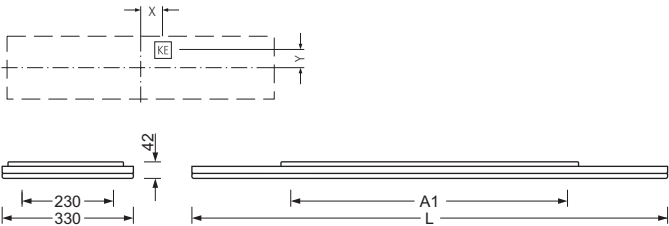
η_{LB}	100 %	η_{LB}	100 %
lm/W	115	lm/W	113
direct/indirect	84/16 %	direct/indirect	84/16 %
UGR lat./long.	18,2/18,3	UGR lat./long.	20,2/20,0
VDU	$65^\circ < 3000 \text{ cd/m}^2$		

visula-VSAIG LED



Dimensions

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





Products

Type	Lamps	lm/W	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Diffuser, frosted direct distribution / indirect distribution for ceiling lighting homogeneous light output through LED edge light injection</i>								
visula-VSAIG/1200	LED 3700 927-965	83	45	aen	DALI DT8 ¹⁾²⁾	1199 x 330 x 42	4332 4016 915	7,60
	LED 4900 840	113	44	aen	ED	1199 x 330 x 42	4332 1014 115	7,50
					DALI ¹⁾	1199 x 330 x 42	4332 1016 615	7,60
visula-VSAIG/1500	LED 4700 927-965	86	55	aen	DALI DT8 ¹⁾²⁾	1480 x 330 x 42	4335 4026 915	9,10
	LED 6300 840	116	55	aen	ED	1480 x 330 x 42	4335 1024 115	9,00
					DALI ¹⁾	1480 x 330 x 42	4335 1026 615	9,10
<i>Micro-prismatic diffuser direct distribution / indirect distribution for ceiling lighting homogeneous light output through LED edge light injection</i>								
visula-VSAIMP/1200	LED 3700 927-965	82	45	aen	DALI DT8 ¹⁾²⁾	1199 x 330 x 42	4332 4016 975	7,60
	LED 4900 840	112	44	aen	ED	1199 x 330 x 42	4332 1014 175	7,50
					DALI ¹⁾	1199 x 330 x 42	4332 1016 675	7,60
visula-VSAIMP/1500	LED 4700 927-965	85	55	aen	DALI DT8 ¹⁾²⁾	1480 x 330 x 42	4335 4026 975	9,10
	LED 6300 840	115	55	aen	ED	1480 x 330 x 42	4335 1024 175	9,00
					DALI ¹⁾	1480 x 330 x 42	4335 1026 675	9,10
					DALI M5S5 ³⁾	1480 x 330 x 42	4335 1028 175	9,10

¹⁾ : Luminaires suitable for IoT (Internet of Things)

²⁾ : Luminaires with tunable white technology suitable for Human Centric Lighting (HCL)

³⁾ : Luminaires with sensors

Accessories

Type		Details	Art. no.		
<i>Electrical technology</i>					
Light Control	LC-OM MASTER REMOTE PC KIT	Remote control for commissioning the DALIeco (M5S5) light control system	8450 1041 200	1	0,11
	LC-OM USER REMOTE	Remote control for the operation of the DALIeco (M5S5) light control system	8450 1042 100	1	0,11



protection



protection – the versatile luminaire with higher protection rating

- IP54 Surface-mounted luminaire with various lighting technologies and housings
- Surface-mounted luminaire for clean-rooms, manufactured according to IPA requirements and GMP guidelines
- Tested for microbial metabolic potential in accordance with ISO 846



Type overview

- ▶ PRAG Diffuser, satined direct distribution
- ▶ PRAMP Diffuser, micro-prismatic direct distribution
- ▶ PRAO Diffuser, opal direct distribution

protection IPA LED



LED A++ 3000 9 F [clean tested] [E] [E] [E] CE IP 54

Mounting:

- Ceiling surface

Housing:

- Sheet steel housing

Lighting technology PRAMP:

- Micro-prismatic diffuser; PMMA plastic
- Lighting characteristic direct distribution
- Suitable for VDU workstations, $65^\circ < 3000 \text{ cd/m}^2$, $\text{UGR} \leq 19$ in accordance with DIN-EN 12464-1

Lighting technology PRAG:

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

Lamp:

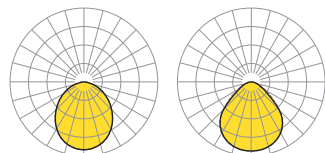
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

Miscellaneous:

- Suitable for air purity class ISO 14644-1 Class 2 with excellent to very good results in terms of microbial metabolic potential and chemical resistance
- An extractor is included for prismatic and frosted panes to remove the sealing frame



PRAG/660 IP54 LED 5000 lm 840 PRAMP/660 IP54 LED 5000 lm 840

η_{LB}	100 %	η_{LB}	100 %
lm/W	148	lm/W	147
direct/indirect	100/0 %	direct/indirect	100/0 %
UGR lat./long.	20,8/20,7	UGR lat./long.	18,3/18,7
VDU	$65^\circ < 3000 \text{ cd/m}^2$		



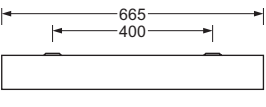
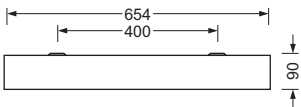
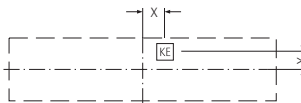
The prismatic or satin diffuser frame can be easily removed using an extractor supplied with the luminaire.

protection IPA-PRAMP LED



Dimensions

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





Products

Type	Lamps	lm/W	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	
Diffuser, micro-prismatic direct distribution								
protection IPA-PRAMP/660 IP54	LED 5000 840	147	34	vw	ED	665 x 654 x 90	6200 0014 153	7,90
					DALI ¹⁾	665 x 654 x 90	6200 0016 653	7,90
Diffuser, satined direct distribution								
protection IPA-PRAG/660 IP54	LED 5000 840	148	34	vw	ED ²⁾	665 x 654 x 90	6200 0014 113	7,90
					DALI ¹⁾	665 x 654 x 90	6200 0016 613	7,90

¹⁾ : Luminaires suitable for IoT (Internet of Things)

²⁾ : Luminaire has been tested by Fraunhofer Institut IPA



protection LED



LED A++ 8000 9 5 4 CE IP 54

Mounting:

- Ceiling surface

Housing:

- Sheet steel housing

Lighting technology PRAMP:

- Micro-prismatic diffuser; PMMA plastic
- Lighting characteristic direct distribution
- Suitable for VDU workstations, $65^\circ < 3000 \text{ cd/m}^2$, $\text{UGR} \leq 19$ in accordance with DIN-EN 12464-1

Lighting technology PRAG:

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

Lighting technology PRAO:

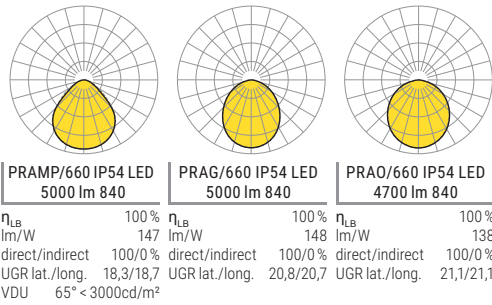
- Diffuser, opal; PMMA plastic
- Lighting characteristic direct distribution

Lamp:

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

Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz



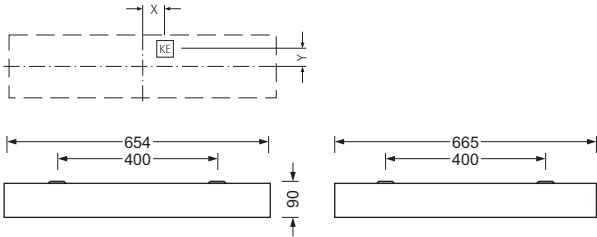
The prismatic or satin diffuser frame can be easily removed using an extractor supplied with the luminaire.

protection-PRAMP LED



Dimensions

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





Products

Type	Lamps	lm/W	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Diffuser, micro-prismatic direct distribution</i>								
protection-PRAMP/660 IP54	LED 5000 840	147	34	vw	ED	665 x 654 x 90	6200 0014 150	7,90
					DALI ¹⁾	665 x 654 x 90	6200 0016 650	7,90
<i>Diffuser, opal direct distribution</i>								
protection-PRAO/660 IP54	LED 4700 840	138	34	vw	ED	665 x 654 x 90	6200 0014 180	7,90
					DALI ¹⁾	665 x 654 x 90	6200 0016 680	7,90
<i>Diffuser, satined direct distribution</i>								
protection-PRAG/660 IP54	LED 5000 840	148	34	vw	ED	665 x 654 x 90	6200 0014 110	7,90
					DALI ¹⁾	665 x 654 x 90	6200 0016 610	7,90

¹⁾ : Luminaires suitable for IoT (Internet of Things)

Accessories

	Type	Colour	Material	Details	Art. no.	kg
<i>Mounting</i>						
Tool	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1 0,08



stail



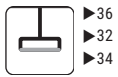
stail – technical requirement and minimisation

- Light run surface-mounted LED or T5 luminaire with micro-louvre MIRO-SILVER ®
- Sheet steel housing with wide sheet steel end faces and apparent construction height of only 26 mm
- With light emission apertures on the top of the luminaire for attractive ceiling brightening
- Light run arrangement with spacing, available as suspended luminaire



Type overview

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



LED A++ 1500 lm F CE IP 20

Mounting:

- Ceiling surface
- Mounting rail

Housing:

- Sheet steel housing, visible installation height 26 mm

Lighting technology SAX:

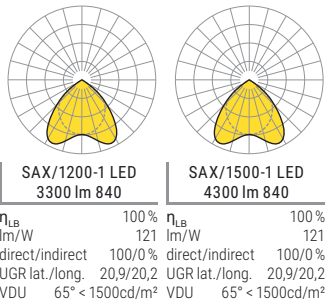
- Micro-parabolic louvre, silky matt MIRO-SILVER ®
- Lighting characteristic direct distribution
- Suitable for VDU workstations, 65° < 1500 cd/m²

Lamp:

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

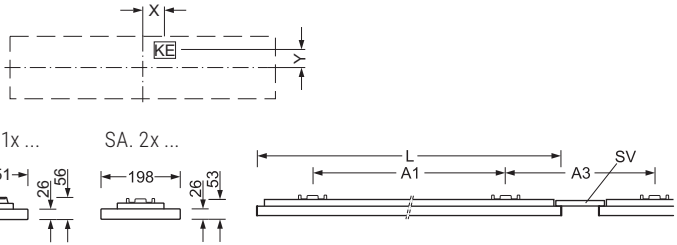
Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz



Dimensions

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



Products

Type	Lamps	lm/W	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Micro-parabolic louvre, silky matt direct distribution</i>								
stail-SAX/1200-1	LED 3300 840	121	29	vw	ED	1240 x 151 x 56	6032 1024 160	3,35
					DALI ¹⁾	1240 x 151 x 56	6032 1026 660	3,45
stail-SAX/1200-2	LED 6900 840	121	57	vw	ED	1240 x 198 x 56	6032 2024 160	4,80
					DALI ¹⁾	1240 x 198 x 56	6032 2026 660	4,80
stail-SAX/1500-1	LED 4300 840	121	36	vw	ED	1540 x 151 x 56	6032 3024 160	4,10
					DALI ¹⁾	1540 x 151 x 56	6032 3026 660	4,20
stail-SAX/1500-2	LED 8600 840	121	71	vw	ED	1540 x 198 x 56	6032 4024 160	5,85
					DALI ¹⁾	1540 x 198 x 56	6032 4026 660	5,85

¹⁾ : Luminaires suitable for IoT (Internet of Things)

Accessories

Type	Colour	Material	Details	Art. no.	kg
<i>Electrical technology</i>					
Through-wiring cable	stail -DVA-5G 1500	ws	H05VV-F 5x1.5mm² for stail SAD, SAX	6031 9000 100	1 0,16
<i>Structure</i>					
Luminaire connector	stail -SV 100	vw	for stail	6030 1000 100	1 0,18



Products

Type	Lamps	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	
<i>Micro-parabolic louvre, highly specular direct distribution</i>							
stail-SAD	T5 1x28/54W	58	vw	ECG	1240 x 151 x 42	6032 1944 170	3,50
			wa	ECG	1240 x 151 x 42	6032 1944 175	3,50
	T5 1x35/49/80W	52	vw	ECG	1540 x 151 x 42	6032 1954 170	4,00
			wa	ECG	1540 x 151 x 42	6032 1954 175	4,00
	T5 2x28/54W	116	vw	ECG	1240 x 198 x 42	6032 2944 170	3,90
			wa	ECG	1240 x 198 x 42	6032 2944 175	3,90
	T5 2x35/49W	104	vw	ECG	1540 x 198 x 42	6032 2964 170	4,40
			wa	ECG	1540 x 198 x 42	6032 2964 175	4,40
<i>Micro-parabolic louvre, silky matt direct distribution</i>							
stail-SAX	T5 1x28/54W	58	vw	ECG	1240 x 151 x 42	6032 1944 160	3,50
			wa	ECG	1240 x 151 x 42	6032 1944 165	3,50
	T5 1x35/49/80W	52	vw	ECG	1540 x 151 x 42	6032 1954 160	4,00
			wa	ECG	1540 x 151 x 42	6032 1954 165	4,00
	T5 2x28/54W	116	vw	ECG	1240 x 198 x 42	6032 2944 160	3,90
			wa	ECG	1240 x 198 x 42	6032 2944 165	3,90
	T5 2x35/49W	104	vw	ECG	1540 x 198 x 42	6032 2964 160	4,40
			wa	ECG	1540 x 198 x 42	6032 2964 165	4,40

Accessories

Type	Colour	Material	Details	Art. no.	kg
<i>Electrical technology</i>					
Through-wiring cable	stail -DVA-5G 1500	ws	H05VV-F 5x1.5mm² for stail SAD, SAX	6031 9000 100	1 0,16
<i>Structure</i>					
Luminaire connector	stail -SV 100	vw	for stail	6030 1000 100	1 0,18
	stail -SV 100	wa	for stail	6030 1000 105	1 1,00







hokal

REGIOLUX

83



hokal – universal light run system

- Light run channel surface-mounted luminaire LED and T5
- Optionally with micro-parabolic louvre or opal diffuser
- Sheet steel housing with attachable die-cast end faces
- With visually continuous louvres in light run installations
- Suspended and recessed luminaires



Type overview

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



►136



►87



►40

►42



►178

►180

LED A++ A+ 1500 F CE IP 20

Mounting:

- Ceiling surface
- Suspended

Housing:

- Sheet steel housing

Lighting technology HLAG:

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

Lighting technology HLAX:

- Micro-parabolic louvre, silky matt MIRO-SILVER ®
- Lighting characteristic direct distribution
- Suitable for VDU workstations, $65^\circ < 1500 \text{ cd/m}^2$

Lamp:

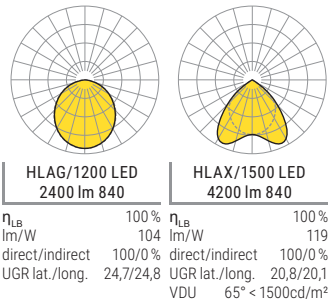
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

Accessories:

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



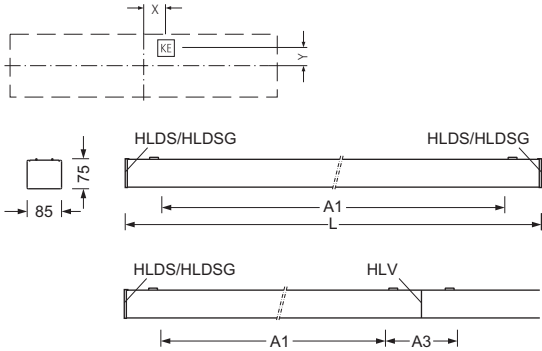
Luminaires are supplied with open ends. End faces and connectors must be ordered separately.

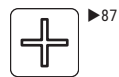
hokal-HLAG LED



Dimensions

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





Products

Type	Lamps	lm/W	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	
Diffuser, satined direct distribution								
hokal-HLAG/1200	LED 2400 840	104	23	vw	ED	1176 x 85 x 75	6050 1024 180	3,10
					DALI ¹⁾	1176 x 85 x 75	6050 1026 680	3,10
hokal-HLAG/1500	LED 3600 840	100	36	vw	ED	1476 x 85 x 75	6050 3024 180	3,70
					DALI ¹⁾	1476 x 85 x 75	6050 3026 680	3,70
Micro-parabolic louvre, silky matt direct distribution								
hokal-HLAX/1200	LED 3400 840	118	28	vw	ED	1176 x 85 x 75	6050 1024 160	2,91
					DALI ¹⁾	1176 x 85 x 75	6050 1026 660	2,99
hokal-HLAX/1500	LED 4200 840	119	35	vw	ED	1476 x 85 x 75	6050 3024 160	3,50
					DALI ¹⁾	1476 x 85 x 75	6050 3026 660	3,58

¹⁾ : Luminaires suitable for IoT (Internet of Things)

hokal T5

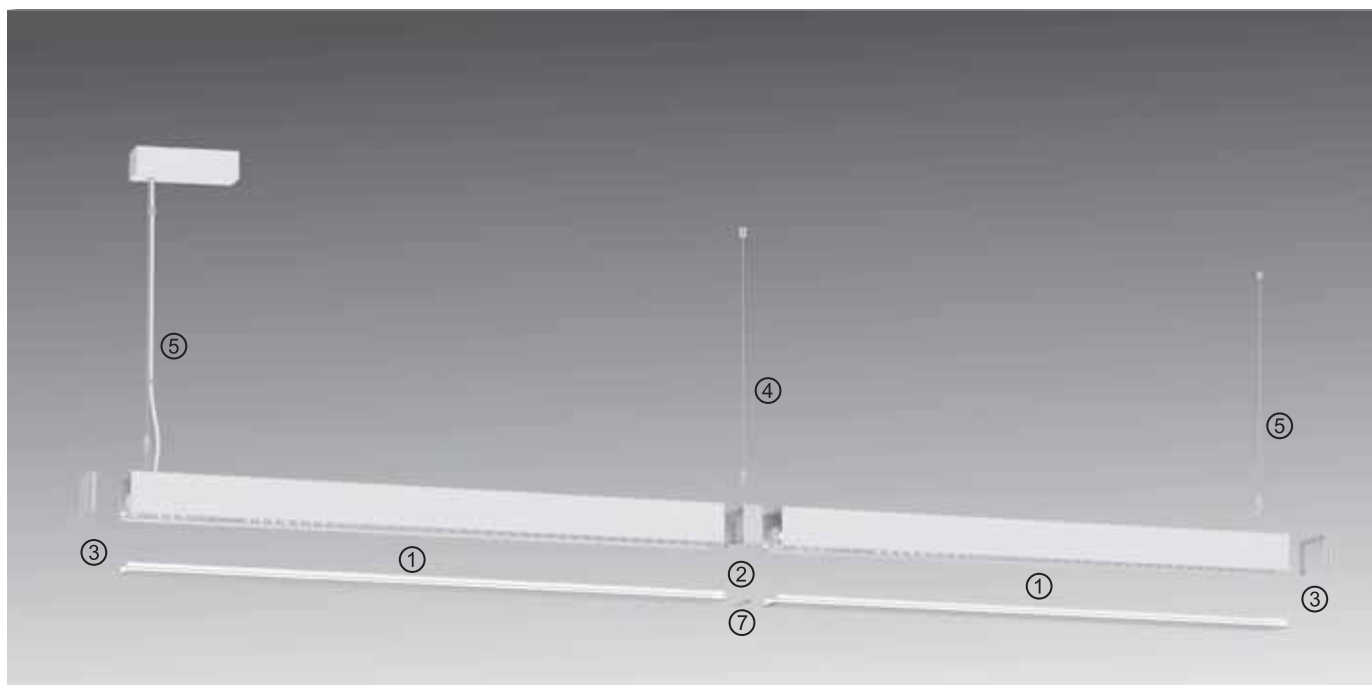


Products

Type	Lamps	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	
Diffuser, satined direct distribution							
hokal-HLAG	T5 1x28/54W	58	vw	ECG	1176 x 85 x 75	6050 1944 180	2,56
			vw	DALI ⁽¹⁾	1176 x 85 x 75	6050 1946 680	2,56
	T5 1x35/49/80W	52	vw	ECG	1476 x 85 x 75	6050 1954 180	3,11
			vw	DALI ⁽¹⁾	1476 x 85 x 75	6050 1956 680	3,11
Micro-parabolic louvre, highly specular direct distribution							
hokal-HLAD	T5 1x28/54W	58	vw	ECG	1176 x 85 x 75	6050 1944 170	2,54
			vw	DALI ⁽¹⁾	1176 x 85 x 75	6050 1946 670	2,54
	T5 1x35/49/80W	52	vw	ECG	1476 x 85 x 75	6050 1954 170	3,09
			vw	DALI ⁽¹⁾	1476 x 85 x 75	6050 1956 670	3,09
Micro-parabolic louvre, silky matt direct distribution							
hokal-HLAX	T5 1x28/54W	58	vw	ECG	1176 x 85 x 75	6050 1944 160	2,54
			vw	DALI ⁽¹⁾	1176 x 85 x 75	6050 1946 660	2,54
	T5 1x35/49/80W	52	vw	ECG	1476 x 85 x 75	6050 1954 160	3,09
			vw	DALI ⁽¹⁾	1476 x 85 x 75	6050 1956 660	3,09

¹⁾ : Luminaires suitable for IoT (Internet of Things)





- ① hokal with FLVWR through-wiring
- ② Luminaire connector HLV
- ③ Luminaire end faces HLDS or HLD SG
- ④ Luminaire suspension SAY-DZ plus counter-balance weight SAG-ECG
- ⑤ Complete suspension set SAY-PS (incl. 1 x SAY-DZ)
- ⑦ Diffuser connector GSL

Accessories

	Type	Colour	Material	Details	Art. no.		
Design							
Diffuser connector	GSL -1	tz	PC	Protection strip for 1/.. hokal-HL..G, procube CU..G	8460 1001 100	1	0,06
End faces	hokal -HLDS -1	vw	Al	for hokal-HLA.., hokal-HLH..	6058 1015 100	2	0,12
	hokal -HLD SG -1	vw	Al	for hokal-HLAG T5 1x.., -1 LED; hokal-HLHG. T5 1x.., -1 LED	6058 1025 100	2	0,12
Electrical technology							
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm ² for light run-capable LED/T5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1	0,16
Mounting							
Complete suspension set	SAYE-PS 120 3x0,75	vw	Mix	Rectangular canopy L=160mm, metal ceiling cylinder, 2 wires D=1.2mm L=1900mm, 2 cross-spans L=120mm, white connection cable, for hokal, procube, cubus LED/T5, lens basic	9123 0023 121	1	0,30
	SAYE-PS 120 5x0,75	vw	Mix	Rectangular canopy L=160mm, metal ceiling cylinder, 2 wires D=1.2mm L=1900mm, 2 cross-spans L=120mm, white connection cable, for hokal, procube, cubus LED/T5, lens basic	9123 0025 121	1	0,35
Y-wire suspension	SAY -DZ 120	me	Mix	Metal ceiling cylinder, wire D=1.2mm L=1900mm, cross-span L=120mm (e.g. light run installation), for hokal, procube, cubus LED/T5	9163 9020 105	1	0,06
	SAG 2	ws	Polymer	Strain relief WAGO-terminal for suspension of surface-mounted luminaires	9593 2000 100	1	0,15
Counter-balance weight	SAG -ECG	sw	Mix	ECG device weight compensation for cubus T5 1x, 2x, lens basic 1x, hokal HLA. T5, procube CUA. T5	9593 4350 100	1	0,35
Tool	SH 30	sw	Polymer	Suction holder, d=30mm for smooth diffuser covers, narrow design	9203 0030 100	1	0,06
	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1	0,08
Structure							
Luminaire connector	hokal -HLV -1	vw	St	for hokal HLH, HLA	6058 1000 100	1	0,13



procube



procube – luminaire family with compact dimensions

- Light run surface-mounted luminaire with fittings for lighting design schemes
- Optionally with continuous louvres or opal diffuser
- Master luminaires for daylight linking with presence monitoring
- Sheet steel housing with attachable end faces
- With visually continuous louvres in light strip installations
- Also available as suspended luminaire



Type overview

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



Mounting:

- Ceiling surface
- Suspended

Housing:

- Sheet steel housing

Lighting technology CUAX:

- Micro-parabolic louvre, silky matt MIRO-SILVER®
- Lighting characteristic direct distribution
- Suitable for VDU workstations, $65^\circ < 1500 \text{ cd/m}^2$

Lighting technology CUAWF:

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

Lamp:

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

Switching:

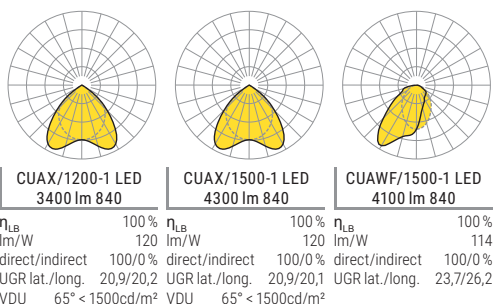
- 1 Controller
- Electronic driver
- 230V 50Hz

Miscellaneous:

- Luminaires with integrated sensors and control available

Accessories:

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



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

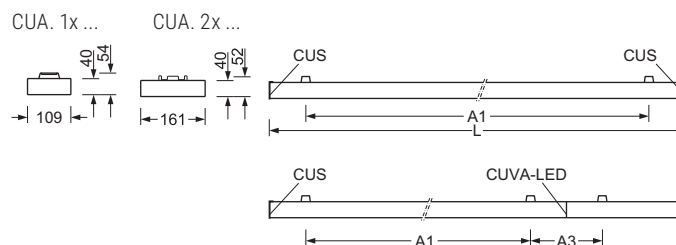
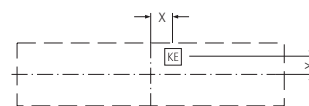


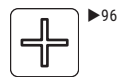
Luminaires are supplied with open ends. End faces and connectors must be ordered separately.



Dimensions

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
CUA./1200-1	LED	1179 x 109 x 54	900	276	0 / 33
CUA./1200-2	LED	1179 x 161 x 54	1000	176	0 / 56
CUA./1500-1	LED	1479 x 109 x 54	1200	276	0 / 33
CUA./1500-2	LED	1479 x 161 x 54	1300	176	0 / 56
CUAWF/1500-1	LED	1457 x 109 x 54	1200	254	0 / 33





Products

Type	Lamps	lm/W	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	
Micro-parabolic louvre, silky matt direct distribution								
procube-CUAX/1200-1	LED 3400 840	120	28	vw	ED	1179 x 109 x 54	6040 1024 160	2,59
					DALI ¹⁾	1179 x 109 x 54	6040 1026 660	2,66
procube-CUAX/1200-2	LED 6800 840	121	57	vw	ED	1179 x 161 x 54	6040 2024 160	3,30
					DALI ¹⁾	1179 x 161 x 54	6040 2026 660	3,30
procube-CUAX/1500-1	LED 4300 840	120	36	vw	ED	1479 x 109 x 54	6040 3024 160	3,02
					DALI ¹⁾	1479 x 109 x 54	6040 3026 660	3,09
procube-CUAX/1500-2	LED 8500 840	121	71	vw	ED	1479 x 161 x 54	6040 4024 160	4,20
					DALI ¹⁾	1479 x 161 x 54	6040 4026 660	4,20
					DALI M5S5 ²⁾	1479 x 161 x 54	8440 4026 660	4,30
Fresnel lens direct asymmetrical distribution								
procube-CUAWF/1500-1	LED 4100 840	114	36	vw	ED	1457 x 109 x 54	6040 4024 190	4,00
					DALI ¹⁾	1457 x 109 x 54	6040 4026 690	4,10

¹⁾ : Luminaires suitable for IoT (Internet of Things)

²⁾ : Luminaires with sensors





procube T5



Products

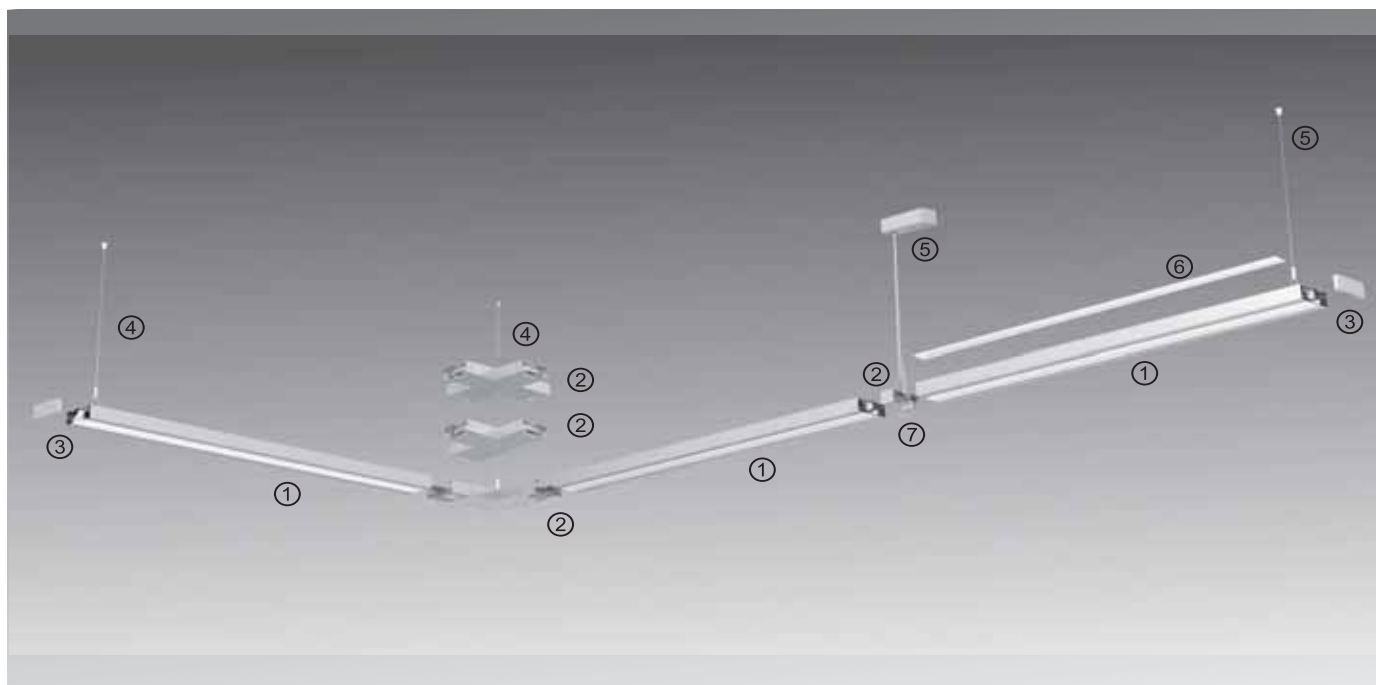
Type	Lamps	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	
<i>Diffuser, satined direct distribution</i>							
procube-CUAG	T5 1x28/54W	58	vw	ECG	1179 x 109 x 46	6040 1944 180	2,10
			vw	ECG DALI ¹⁾	1179 x 109 x 46	6040 1946 680	2,10
	T5 1x35/49/80W	52	vw	ECG	1479 x 109 x 46	6040 1954 180	2,50
			vw	ECG DALI ¹⁾	1479 x 109 x 46	6040 1956 680	2,50
	T5 1x49W	52	vw	ECG EM-B3 ²⁾	1479 x 109 x 46	6040 1497 780	3,10
	T5 2x28/54W	116	vw	ECG	1179 x 161 x 46	6040 2944 180	2,50
			vw	ECG DALI ¹⁾	1179 x 161 x 46	6040 2946 680	2,50
	T5 2x35/49W	104	vw	ECG	1479 x 161 x 46	6040 2964 180	3,10
			vw	ECG DALI ¹⁾	1479 x 161 x 46	6040 2966 680	3,10
	T5 2x35W	76	vw	ECG EM-B3 ²⁾	1479 x 161 x 46	6040 2357 780	3,80
<i>Micro-parabolic louvre, highly specular direct distribution</i>							
procube-CUAD	T5 1x28/54W	58	vw	ECG	1179 x 109 x 46	6040 1944 170	2,10
			vw	ECG DALI ¹⁾	1179 x 109 x 46	6040 1946 670	2,10
	T5 1x35/49/80W	52	vw	ECG	1479 x 109 x 46	6040 1954 170	2,50
			vw	ECG DALI ¹⁾	1479 x 109 x 46	6040 1956 670	2,50
	T5 1x49W	52	vw	ECG EM-B3 ²⁾	1479 x 109 x 46	6040 1497 770	3,10
	T5 2x28/54W	116	vw	ECG	1179 x 161 x 46	6040 2944 170	2,60
			vw	ECG DALI ¹⁾	1179 x 161 x 46	6040 2946 670	2,60
	T5 2x35/49/80W	104	vw	ECG	1479 x 161 x 46	6040 2954 170	3,20
			vw	ECG DALI ¹⁾	1479 x 161 x 46	6040 2956 670	3,20
	T5 2x49W	104	vw	ECG EM-B3 ²⁾	1479 x 161 x 46	6040 2497 770	3,80
<i>Micro-parabolic louvre, silky matt direct distribution</i>							
procube-CUAX	T5 1x28/54W	58	vw	ECG	1179 x 109 x 46	6040 1944 160	2,10
			vw	ECG DALI ¹⁾	1179 x 109 x 46	6040 1946 660	2,10
	T5 1x35/49/80W	52	vw	ECG	1479 x 109 x 46	6040 1954 160	2,50
			vw	ECG DALI ¹⁾	1479 x 109 x 46	6040 1956 660	2,50
	T5 1x49W	52	vw	ECG EM-B3 ²⁾	1479 x 109 x 46	6040 1497 760	3,10
	T5 2x28/54W	116	vw	ECG	1179 x 161 x 46	6040 2944 160	2,60
			vw	ECG DALI ¹⁾	1179 x 161 x 46	6040 2946 660	2,60
	T5 2x35/49/80W	104	vw	ECG	1479 x 161 x 46	6040 2954 160	3,20
			vw	ECG DALI ¹⁾	1479 x 161 x 46	6040 2956 660	3,20
	T5 2x49W	104	vw	ECG EM-B3 ²⁾	1479 x 161 x 46	6040 2497 760	3,80
<i>Wall washer, silky matt direct asymmetrical distribution</i>							
procube-CUAWF	T5 1x28/54W	58	vw	ECG	1179 x 161 x 46	6040 1944 190	2,40
			vw	ECG DALI ¹⁾	1179 x 161 x 46	6040 1946 690	2,40
	T5 1x35/49/80W	52	vw	ECG	1479 x 161 x 46	6040 1954 190	2,70
			vw	ECG DALI ¹⁾	1479 x 161 x 46	6040 1956 690	2,70

¹⁾ : Luminaires suitable for IoT (Internet of Things)

²⁾ : Luminaires with emergency light unit single battery 3h



procube surface-mounted accessories



① procube with FLVWR through-wiring

② Luminaire connectors – straight, L, T and X shapes

③ Luminaire end faces kit CUS

④ Luminaire suspension SAY-DZ

⑤ Complete suspension set SAY-PS (incl. 1 x SAY-DZ)

⑥ Transparent cover indirect lighting component CUIA

⑦ Diffuser connector protection strip GSL



Accessories

	Type	Colour	Material	Details	Art. no.		
Design							
Diffuser	GSL -1	tz	PC	Protection strip for 1/.. hokal-HL..G, procube CU..G	8460 1001 100	1	0,06
connector	GSL -2	tz	PC	Protection strip for 2/.. hokal-HL..G, procube CU..G	8460 1002 100	1	0,06
End faces	procube -CUS -1	vw	St	for procube CUA. T5 1x.../-1 LED, CUAWF-1 LED	6049 1005 100	2	0,20
	procube -CUS -2	vw	St	for procube CUA. T5 2x.../-2 LED, CUAWF T5 1x...	6049 2005 100	2	0,33
Electrical technology							
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm ² for light run-capable LED/T5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1	0,16
Light Control	LC-OM MASTER REMOTE PC KIT			Remote control for commissioning the DALIeco (M5S5) light control system	8450 1041 200	1	0,11
	LC-OM USER REMOTE			Remote control for the operation of the DALIeco (M5S5) light control system	8450 1042 100	1	0,11
Protection							
Protective cover IP20	CUIA-1 28/54	tp	Polymer	for procube-CUHI. 1x 28/54	6049 1940 100	1	0,15
	CUIA-1 35/49/80	tp	Polymer	for procube-CUHI. 1x 35/49/80	6049 1950 100	1	0,19
	CUIA-2 28/54	tp	Polymer	for procube-CUHI. 2x 28/54	6049 2940 100	1	0,21
	CUIA-2 35/49/80	tp	Polymer	for procube-CUHI. 2x 35/49/80	6049 2950 100	1	0,27
Mounting							
Complete suspension set	SAYE-PS 120 3x0,75	vw	Mix	Rectangular canopy L=160mm, metal ceiling cylinder, 2 wires D=1.2mm L=1900mm, 2 cross-spans L=120mm, white connection cable, for hokal, procube, cubus LED/T5, lens basic	9123 0023 121	1	0,30
	SAYE-PS 120 5x0,75	vw	Mix	Rectangular canopy L=160mm, metal ceiling cylinder, 2 wires D=1.2mm L=1900mm, 2 cross-spans L=120mm, white connection cable, for hokal, procube, cubus LED/T5, lens basic	9123 0025 121	1	0,35
Y-wire suspension	SAY -DZ 120	me	Mix	Metal ceiling cylinder, wire D=1.2mm L=1900mm, cross-span L=120mm (e.g. light run installation), for hokal, procube, cubus LED/T5	9163 9020 105	1	0,06
	SAG 2	ws	Polymer	Strain relief WAGO-terminal for suspension of surface-mounted luminaires	9593 2000 100	1	0,15
Counter-balance weight	SAG -ECG	sw	Mix	Electronic operating device weight compensation for cubus T5 1x, 2x, lens basic 1x, hokal HLA. T5, procube CUA. T5	9593 4350 100	1	0,35
Tool	SH 30	sw	Polymer	Suction holder, d=30mm for smooth diffuser covers, narrow design	9203 0030 100	1	0,06
	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1	0,08
Structure							
Luminaire connector	procube -CUV A-LED	vw	St	0° for procube CUA.-1/-2 LED	6049 1100 100	1	0,10
	procube -CUV -1	vw	St	0° for procube T5 1x..., CUH.-1 LED	6049 1000 100	1	0,10
	procube -CUV -2	vw	St	0° for procube T5 2x..., CUH.-2 LED	6049 2000 100	1	0,12
	procube -CUVE -1	vw	St	L 90° for procube T5 1x..., -1 LED, incl. wiring	6049 1002 100	1	0,50
	procube -CUVE -2	vw	St	L 90° for procube T5 2x..., -2 LED, incl. wiring	6049 2002 100	1	0,82
	procube -CUVK -1	vw	St	X 90° for procube T5 1x..., -1 LED, incl. wiring	6049 1004 100	1	0,70
	procube -CUVK -2	vw	St	X 90° for procube T5 2x..., -2 LED, incl. wiring	6049 2004 100	1	0,80
	procube -CUVT -1	vw	St	T 90° for procube T5 1x..., -1 LED, incl. wiring	6049 1003 100	1	0,60
	procube -CUVT -2	vw	St	T 90° for procube T5 2x..., -2 LED, incl. wiring	6049 2003 100	1	0,77



cubus



cubus – efficiency improvements made easy

- Light run-compatible, square-ended louvre luminaire
- Suitable for RE recessed luminaires
- Master luminaires for daylight linking with presence monitoring
- Sheet steel housing with plastic end faces
- With visually continuous louvres in light strip installations



Type overview

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

cubus LED



►136



►60



►52



►184

►188

LED A++ 1000 19 100% F CE IP 20

Mounting:

- Ceiling surface
- Mounting rail

Housing:

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

Lighting technology RSAGC:

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

Lighting technology RSAXC:

- Parabolic louvre, silky matt; Aluminium
- Lighting characteristic direct distribution
- Suitable for VDU workstations, $65^\circ < 1000 \text{ cd/m}^2$,
UGR ≤ 19 in accordance with DIN-EN 12464-1

Lighting technology RWFAC:

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

Lamp:

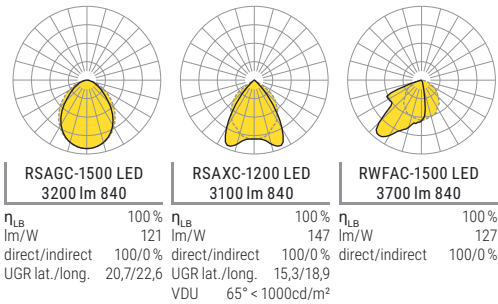
- LED 50000h L80/B10
- CRI ≥ 80 / 4000K

Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

Miscellaneous:

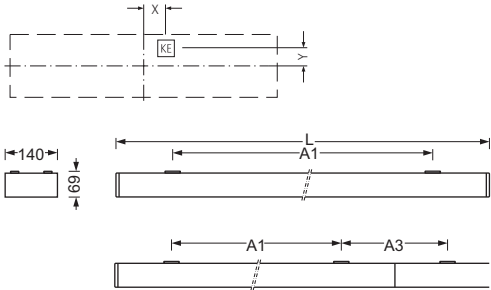
- Luminaires with integrated sensors and control available (T5)



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

Dimensions

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





Products

Type	Lamps	lm/W	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Diffuser, satined direct distribution</i>								
cubus-RSAGC-1200	LED 2600 840	121	21	vw	ED	1188 x 140 x 69	6504 0014 180	4,05
					DALI ¹⁾	1188 x 140 x 69	6504 0016 680	4,05
cubus-RSAGC-1500	LED 3200 840	121	26	vw	ED	1488 x 140 x 69	6504 0024 180	4,64
					DALI ¹⁾	1488 x 140 x 69	6504 0026 680	4,64
<i>Parabolic louvre, silky matt direct distribution</i>								
cubus-RSAXC-1200	LED 3100 840	147	21	vw	ED	1188 x 140 x 69	6504 0014 160	4,05
					DALI ¹⁾	1188 x 140 x 69	6504 0016 660	4,05
cubus-RSAXC-1500	LED 3900 840	147	26	vw	DALI ¹⁾	1488 x 140 x 69	6504 0026 660	4,64
	LED 4000 840	147	26	vw	ED	1488 x 140 x 69	6504 0024 160	4,64
<i>Wall washer, silky matt direct asymmetrical distribution</i>								
cubus-RWFAC-1500	LED 3700 840	127	29	vw	ED	1488 x 140 x 69	6504 0024 190	4,29

¹⁾ : Luminaires suitable for IoT (Internet of Things)

Accessories

Type	Colour	Material	Details	Art. no.	kg
<i>Electrical technology</i>					
Through-wiring cable	FLVWR 1500	ws	H05V2-U 5x1.5mm ² for light run-capable LED/T5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1 0,16
<i>Mounting</i>					
Tool	SH 55	sw	Polymer Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1 0,08

cubus T5



Products

Type	Lamps	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	
<i>Parabolic louvre, highly specular direct asymmetrical distribution</i>							
cubus-RSADAC	T5 1x28/54W	58	vw	ECG	1188 x 140 x 69	6504 1944 130	3,40
	T5 1x35/49/80W	52	vw	ECG	1488 x 140 x 69	6504 1954 130	2,80
<i>Parabolic louvre, highly specular direct distribution</i>							
cubus-RSADC	T5 1x28/54W	58	vw	ECG	1188 x 140 x 69	6504 1944 170	3,40
			vw	DALI ¹⁾	1188 x 140 x 69	6504 1946 670	2,80
	T5 1x35/49/80W	52	vw	ECG	1488 x 140 x 69	6504 1954 170	2,80
			vw	DALI ¹⁾	1488 x 140 x 69	6504 1956 670	3,63
	T5 1x49W	52	vw	ECG EM-B3 ²⁾	1488 x 140 x 69	6504 1497 770	4,28
	T5 1x80W	85	vw	ECG EM-B3 ²⁾	1488 x 140 x 69	6504 1807 770	4,18
	T5 2x35/49W	104	vw	ECG	1488 x 140 x 69	6504 2964 170	3,63
			vw	DALI ¹⁾	1488 x 140 x 69	6504 2966 670	3,63
	T5 2x49W	104	vw	ECG EM-B3 ²⁾	1488 x 140 x 69	6504 2497 770	4,58
<i>Parabolic louvre, silky matt direct asymmetrical distribution</i>							
cubus-RSAXAC	T5 1x28/54W	58	vw	ECG	1188 x 140 x 69	6504 1944 140	2,35
	T5 1x35/49/80W	52	vw	ECG	1488 x 140 x 69	6504 1954 140	2,74
<i>Parabolic louvre, silky matt direct distribution</i>							
cubus-RSAXC	T5 1x28/54W	58	vw	ECG	1188 x 140 x 69	6504 1944 161	2,35
	T5 1x35/49/80W	52	vw	ECG	1488 x 140 x 69	6504 1954 160	2,74
			vw	DALI ¹⁾	1488 x 140 x 69	6504 1956 660	3,57
	T5 1x49W	52	vw	ECG EM-B3 ²⁾	1488 x 140 x 69	6504 1497 760	4,22
	T5 1x80W	85	vw	ECG EM-B3 ²⁾	1488 x 140 x 69	6504 1807 760	4,13
	T5 2x35/49W	104	vw	ECG	1488 x 140 x 69	6504 2964 160	3,57
	T5 2x49W	104	vw	ECG EM-B3 ²⁾	1488 x 140 x 69	6504 2497 760	4,52
<i>Louvre, white direct distribution</i>							
cubus-RMAC	T5 1x28/54W	58	vw	ECG	1188 x 140 x 69	6504 1944 110	3,40
	T5 1x35/49/80W	52	vw	ECG	1488 x 140 x 69	6504 1954 110	2,80
	T5 1x49W	52	vw	ECG EM-B3 ²⁾	1488 x 140 x 69	6504 1497 710	4,28
	T5 1x80W	85	vw	ECG EM-B3 ²⁾	1488 x 140 x 69	6504 1807 710	4,19
	T5 2x35/49W	104	vw	ECG	1488 x 140 x 69	6504 2964 110	3,63
	T5 2x49W	104	vw	ECG EM-B3 ²⁾	1488 x 140 x 69	6504 2497 710	4,58
<i>Wall washer, silky matt direct asymmetrical distribution</i>							
cubus-RWFAC	T5 1x35/49/80W	52	vw	ECG	1488 x 140 x 69	6504 1954 190	3,63

¹⁾ : Luminaires suitable for IoT (Internet of Things)

²⁾ : Luminaires with emergency light unit single battery 3h



►136



►60



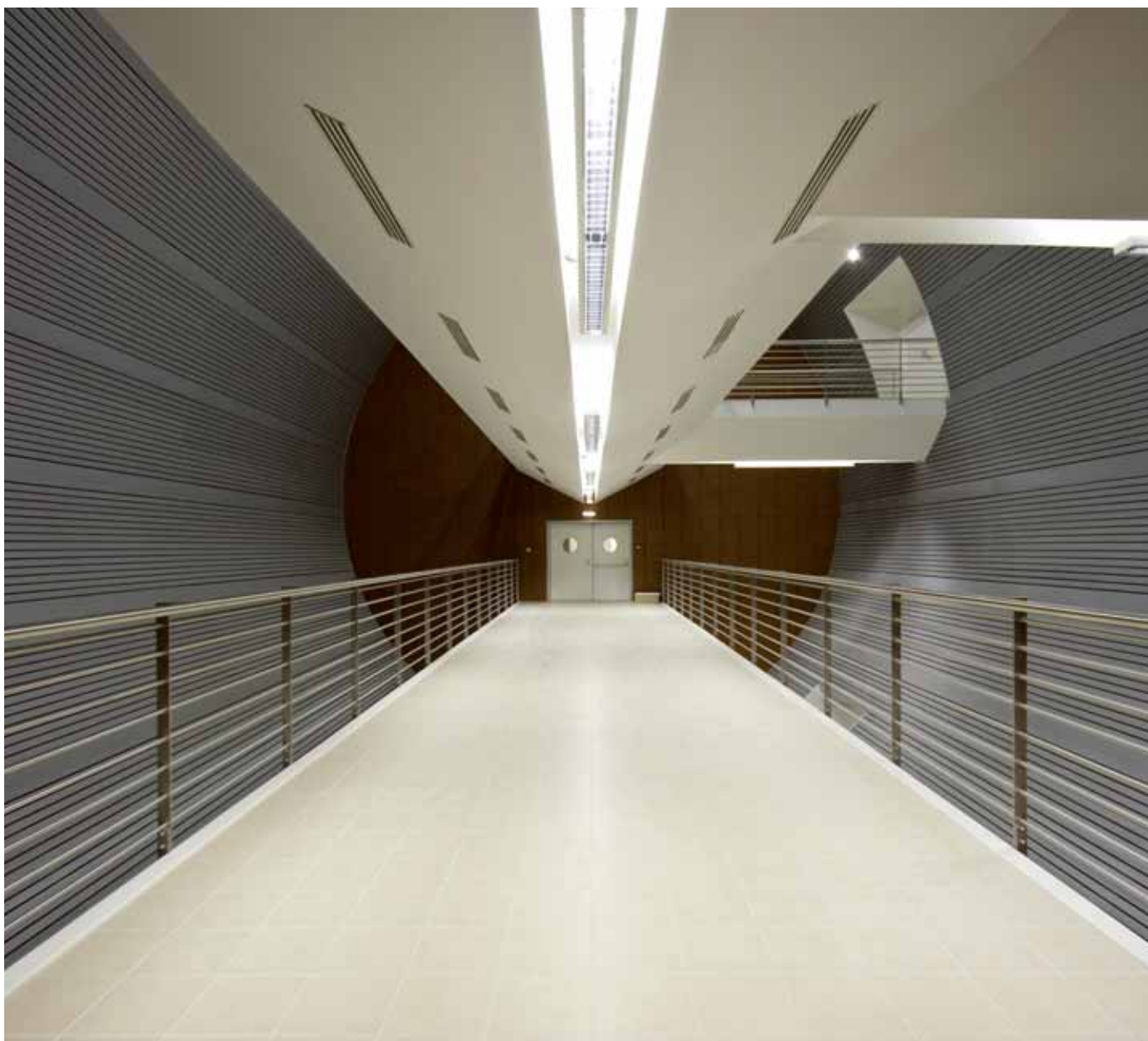
►54



►189

Accessories

Type	Colour	Material	Details	Art. no.		
Electrical technology						
Through-wiring cable	FLVWR 1500	ws	H05V2-U	5x1.5mm ² for light run-capable LED/T5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1 0,16
Mounting						
Complete suspension set	SAYE-PS 120 3x0,75	vw	Mix	Rectangular canopy L=160mm, metal ceiling cylinder, 2 wires D=1.2mm L=1900mm, 2 cross-spans L=120mm, white connection cable, for hokal, procube, cubus LED/T5, lens basic	9123 0023 121	1 0,30
	SAYE-PS 120 5x0,75	vw	Mix	Rectangular canopy L=160mm, metal ceiling cylinder, 2 wires D=1.2mm L=1900mm, 2 cross-spans L=120mm, white connection cable, for hokal, procube, cubus LED/T5, lens basic	9123 0025 121	1 0,35
Y-wire suspension	SAY-DZ 120	me	Mix	Metal ceiling cylinder, wire D=1.2mm L=1900mm, cross-span L=120mm (e.g. light run installation), for hokal, procube, cubus LED/T5	9163 9020 105	1 0,06
	SAG 2	ws	Polymer	Strain relief WAGO-terminal for suspension of surface-mounted luminaires	9593 2000 100	1 0,15
Suspension bracket	SAB 095	me	Inox	0° for T5 cubus	9591 5190 100	1 0,05
Counter-balance weight	SAG-ECG	sw	Mix	ECG weight compensation for cubus T5 1x, 2x, lens basic 1x, hokal HLA. T5, procube CUA. T5	9593 4350 100	1 0,35





peanut



peanut – also for damp rooms

- Universal, organically shaped, plastic surface-mounted luminaire
- Versatile lighting distributions for LED
- Good maintenance factor due to protected lighting technology in IP55 housing
- Attractive ceiling brightening due to an all-round translucent housing



Type overview

- corridor-AGI Diffuser, matt direct/indirect distribution

peanut LED



►136
►460



►60



►58

LED A++ IP 55

Mounting:

- Ceiling surface
- Mounting rail

Housing:

- Polycarbonate, injection-moulded, transparent

Lighting technology corridor-AGI:

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

Lamp:

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

Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

peanut corridor-AGI LED



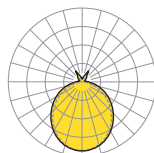
Integrated cable ducts in the top of the housing facilitate simple and unobtrusive through-wiring for light runs.



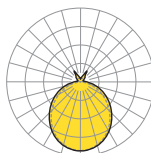
Due to the material-free labyrinth seal the housing is transparent even around the joint.



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



corridor-AGI/1200
LED 3800 lm 840

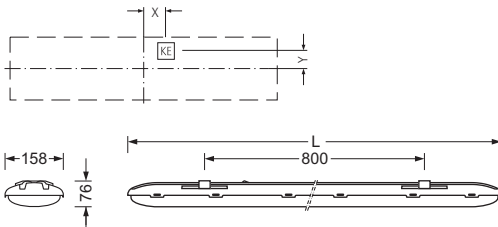


corridor-AGI/1500
LED 4900 lm 840

η_{LB}	100 %	η_{LB}	100 %
lm/W	141	lm/W	140
direct/indirect	87/13 %	direct/indirect	87/13 %
UGR lat./long.	20,1/19,3	UGR lat./long.	20,2/19,5

Dimensions

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



Products

Type	Lamps	lm/W	P _{Sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	
Diffuser, matt direct/indirect distribution								
peanut corridor-AGI/1200	LED 3800 840	141	27	tz	ED	1260 x 158 x 76	5261 0044 180	2,20
					DALI ¹⁾	1260 x 158 x 76	5261 0046 680	2,20
peanut corridor-AGI/1500	LED 4900 840	140	35	tz	ED	1563 x 158 x 76	5261 0034 180	2,75
					DALI ¹⁾	1563 x 158 x 76	5261 0036 680	2,75
	LED 6300 840	133	47	tz	ED	1563 x 158 x 76	5261 0094 180	2,75
					DALI ¹⁾	1563 x 158 x 76	5261 0096 680	2,75

¹⁾ : Luminaires suitable for IoT (Internet of Things)





UA



UA – square luminaire concept

- Square surface-mounted louvre luminaire for LED or T5
- Suitable for UE recessed luminaires
- Sheet steel housing with cubic profile and welded end face



Type overview

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

LED A++ 10000 9 V CE IP 20

Mounting:

- Ceiling surface

Housing:

- Sheet steel housing

Lighting technology UAX:

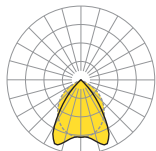
- Parabolic louvre, silky matt; aluminium
- Lighting characteristic direct distribution
- Suitable for VDU workstations, $65^\circ < 1000 \text{ cd/m}^2$,
UGR ≤ 19 in accordance with DIN-EN 12464-1

Lamp:

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

Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz



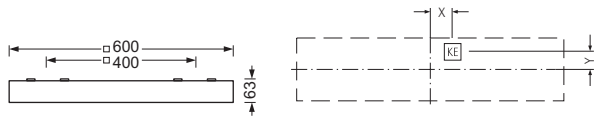
UAX LED 4000 lm 840

η_{LB}	100 %
lm/W	144
direct/indirect	100/0 %
UGR lat./long.	11,5/16,7
VDU	$65^\circ < 1000 \text{ cd/m}^2$



Dimensions

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



Products

Type	Lamps	lm/W	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Parabolic louvre, silky matt direct distribution</i>								
UAX	LED 4000 840	144	29	vw	ED	600 x 600 x 63	6507 0504 160	4,45
					DALI ¹⁾	600 x 600 x 63	6507 0506 660	4,50

¹⁾ IoT: Luminaires suitable for IoT (Internet of Things)

Products

Type	Lamps	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	
Parabolic louvre, highly specular direct distribution							
UAD	T5 3x14W	48	vw	ECG	600 x 600 x 63	6507 3144 170	4,46
	T5 3x24W	78	vw	ECG	600 x 600 x 63	6507 3244 170	4,46
	T5 4x14W	64	vw	ECG	600 x 600 x 63	6507 4144 170	4,29
			vw	DALI ¹⁾	600 x 600 x 63	6507 4146 670	4,29
			vw	ECG EM-B3 ²⁾	600 x 600 x 63	6507 4147 770	4,91
	T5 4x24W	104	vw	ECG	600 x 600 x 63	6507 4244 170	4,29
			vw	DALI ¹⁾	600 x 600 x 63	6507 4246 670	4,29
			vw	ECG EM-B3 ²⁾	600 x 600 x 63	6507 4247 770	4,85
Parabolic louvre, silky matt direct distribution							
UAX	T5 3x14W	48	vw	ECG	600 x 600 x 63	6507 3144 160	4,39
	T5 3x24W	78	vw	ECG	600 x 600 x 63	6507 3244 160	4,39
	T5 4x14W	64	vw	ECG	600 x 600 x 63	6507 4144 160	4,19
			vw	DALI ¹⁾	600 x 600 x 63	6507 4146 660	4,19
			vw	ECG EM-B3 ²⁾	600 x 600 x 63	6507 4147 760	4,81
	T5 4x24W	104	vw	ECG	600 x 600 x 63	6507 4244 160	4,19
			vw	DALI ¹⁾	600 x 600 x 63	6507 4246 660	4,19
			vw	ECG EM-B3 ²⁾	600 x 600 x 63	6507 4247 760	4,73
Louvre, white direct distribution							
UAM	T5 3x14W	48	vw	ECG	600 x 600 x 63	6504 3144 110	4,57
	T5 3x24W	78	vw	ECG	600 x 600 x 63	6504 3244 110	4,57
	T5 4x14W	64	vw	ECG	600 x 600 x 63	6504 4144 110	4,43
			vw	DALI ¹⁾	600 x 600 x 63	6504 4146 610	4,43
			vw	ECG EM-B3 ²⁾	600 x 600 x 63	6504 4147 710	4,91
	T5 4x24W	104	vw	ECG	600 x 600 x 63	6504 4244 110	4,43
			vw	DALI ¹⁾	600 x 600 x 63	6504 4246 610	4,43
			vw	ECG EM-B3 ²⁾	600 x 600 x 63	6504 4247 710	4,83

¹⁾ : Luminaires suitable for IoT (Internet of Things)

²⁾ : Luminaires with emergency light unit single battery 3h





wotek



wotek – soft and puristic light

- LED diffuser luminaire in a variety of forms
- Soft light due to opal diffuser
- Clearly defined edges
- Acrylic diffuser with sheet steel housing IP54

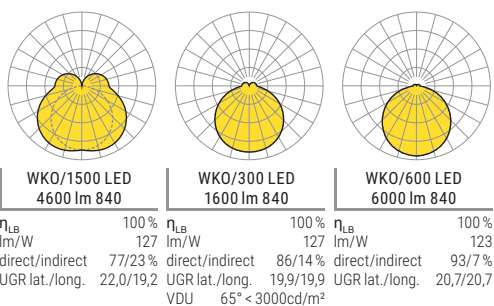


Type overview

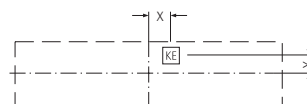
- WKO Diffuser, opal direct/indirect distribution



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

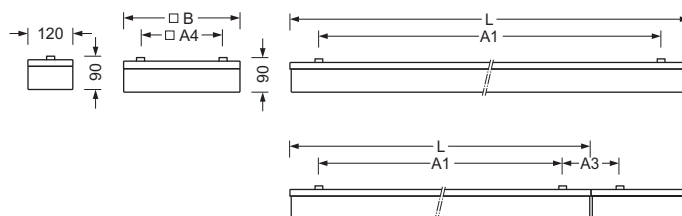


Type	Versions	LxBxH/DxH	A1	A3	A4	KE X/Y
WK./1200	LED	1210 x 120 x 90	1050	160	-	30 / 0
WK./1500	LED	1510 x 120 x 90	1100	410	-	30 / 0
WK./300	LED	310 x 310 x 90	-	-	220	0 / 110
WK./600	LED	620 x 620 x 90	-	-	440	0 / 220



WK.

WK./300, WK./600





Products

Type	Lamps	lm/W	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Diffuser, opal direct/indirect distribution</i>								
wotek-WKO/1200	LED 3500 830	123	28	vw	ED	1210 x 120 x 90	2170 2024 180	3,10
					DALI ¹⁾	1210 x 120 x 90	2170 2026 680	3,10
	LED 3600 840	128	28	vw	ED EM-B3 ²⁾	1210 x 120 x 90	2170 2314 180	3,77
					DALI EM-B3 ²⁾	1210 x 120 x 90	2170 2316 680	3,77
					ED	1210 x 120 x 90	2170 2014 180	3,10
					DALI ¹⁾	1210 x 120 x 90	2170 2016 680	3,10
wotek-WKO/1500	LED 4500 830	123	36	vw	ED	1510 x 120 x 90	2170 5024 180	3,76
					DALI ¹⁾	1510 x 120 x 90	2170 5026 680	3,76
	LED 4600 840	127	36	vw	ED EM-B3 ²⁾	1510 x 120 x 90	2170 5314 180	4,39
					DALI EM-B3 ²⁾	1510 x 120 x 90	2170 5316 680	4,39
					ED	1510 x 120 x 90	2170 5014 180	3,76
					DALI ¹⁾	1510 x 120 x 90	2170 5016 680	3,76
wotek-WKO/300	LED 1500 830	119	12	vw	ED	310 x 310 x 90	2170 3024 180	1,66
	LED 1600 840	127	12	vw	ED	310 x 310 x 90	2170 3014 180	1,66
wotek-WKO/600	LED 5700 830	115	49	vw	ED	620 x 620 x 90	2170 6024 180	6,08
					DALI ¹⁾	620 x 620 x 90	2170 6026 680	6,08
	LED 6000 840	123	49	vw	ED	620 x 620 x 90	2170 6014 180	6,08
					DALI ¹⁾	620 x 620 x 90	2170 6016 680	6,08

¹⁾ : Luminaires suitable for IoT (Internet of Things)

²⁾ : Luminaires with emergency light unit single battery 3h

Replacement parts

Type	Colour	Material	Details	Art. no.		
Lighting technology						
Diffuser	Wanne WKO /1200	tz	PMMA	for WKO/1200 LED	2170 1200 180	1 0,80
	Wanne WKO /1500	tz	PMMA	for WKO/1500 LED	2170 1500 180	1 0,92
	Wanne WKO /0300	tz	PMMA	for WKO/300 LED	2170 0300 180	1 0,42
	Wanne WKO /0600	tz	PMMA	for WKO/600 LED	2170 0600 180	1 1,49



lens pro



lens pro – professional and protected

- LED luminaire for wall and ceiling surface-mounting as well as suspended installation
- Diffuser luminaire in IP44 with opal inner prism diffuser profile
- Optionally with acrylic or polycarbonate diffuser
- Sheet steel housing with screwed polycarbonate end faces for higher safety



Type overview

- LPAK Diffuser, opal direct distribution
- LPAKPC Diffuser, opal direct distribution impact-resistant

lens pro LED

LED A++ CE IP 44

Mounting:

- Ceiling surface
- Suspended
- Wall mounting

Housing:

- Sheet steel profile, front sides made of polycarbonate

Lighting technology LPAK:

- IK04
- Diffuser, opal; PMMA plastic
- Lighting characteristic direct distribution

Lighting technology LPAKPC:

- IK06
- Diffuser, opal; PC plastic
- Lighting characteristic direct distribution

Lamp:

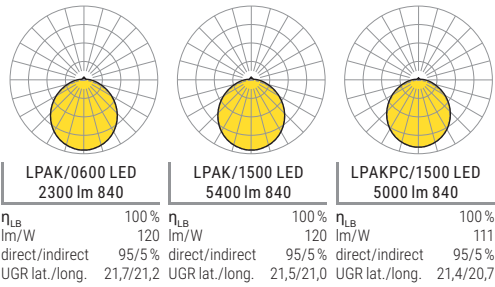
- LED 50000h L80/B10
- CRI ≥ 80 / 3000K, 4000K

Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

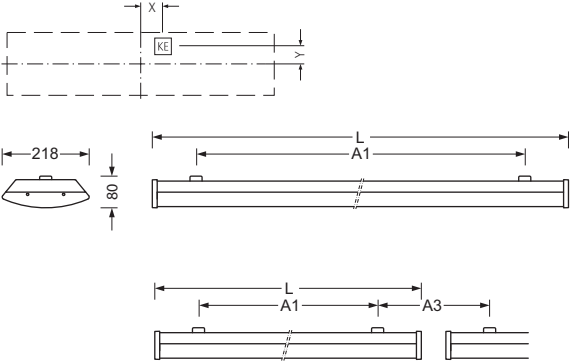
Accessories:

- Complete LPA-PS suspension set for suspended mounting must be ordered separately



Dimensions

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
LPA./0600	LED	604 x 218 x 80	520	234	65 / 0
LPA./1200	LED	1204 x 218 x 80	900	454	0 / 0
LPA./1500	LED	1504 x 218 x 80	1100	554	0 / 0



Products

Type	Lamps	lm/W	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	
Diffuser, opal direct distribution								
lens pro-LPAK/0600	LED 2100 830	114	19	vw	ED	604 x 218 x 80	2166 6224 180	2,10
					DALI ¹⁾	604 x 218 x 80	2166 6226 680	2,10
	LED 2300 840	120	19	vw	ED	604 x 218 x 80	2166 6214 180	2,10
					DALI ¹⁾	604 x 218 x 80	2166 6216 680	2,10
lens pro-LPAK/1200	LED 4100 830	114	36	vw	ED	1204 x 218 x 80	2166 2224 180	2,75
					DALI ¹⁾	1204 x 218 x 80	2166 2226 680	2,75
	LED 4300 840	120	36	vw	ED	1204 x 218 x 80	2166 2214 180	2,75
					DALI ¹⁾	1204 x 218 x 80	2166 2216 680	2,75
lens pro-LPAK/1500	LED 5100 830	114	45	vw	ED	1504 x 218 x 80	2166 5224 180	3,25
					DALI ¹⁾	1504 x 218 x 80	2166 5226 680	3,25
	LED 5400 840	120	45	vw	ED	1504 x 218 x 80	2166 5214 180	3,25
					DALI ¹⁾	1504 x 218 x 80	2166 5216 680	3,25
					ED EM-B3 ²⁾	1504 x 218 x 80	2166 5217 780	3,50
Diffuser, opal direct distribution impact-resistant								
lens pro-LPAKPC/0600	LED 2000 830	106	19	vw	ED	604 x 218 x 80	2166 6224 181	2,10
					DALI ¹⁾	604 x 218 x 80	2166 6226 681	2,10
	LED 2100 840	111	19	vw	ED	604 x 218 x 80	2166 6214 181	2,10
					DALI ¹⁾	604 x 218 x 80	2166 6216 681	2,10
lens pro-LPAKPC/1200	LED 3800 830	106	36	vw	ED	1204 x 218 x 80	2166 2224 181	2,75
					DALI ¹⁾	1204 x 218 x 80	2166 2226 681	2,75
	LED 4000 840	112	36	vw	ED	1204 x 218 x 80	2166 2214 181	2,75
					DALI ¹⁾	1204 x 218 x 80	2166 2216 681	2,75
lens pro-LPAKPC/1500	LED 4800 830	106	45	vw	ED	1504 x 218 x 80	2166 5224 181	3,25
					DALI ¹⁾	1504 x 218 x 80	2166 5226 681	3,25
	LED 5000 840	111	45	vw	ED	1504 x 218 x 80	2166 5214 181	3,25
					DALI ¹⁾	1504 x 218 x 80	2166 5216 681	3,25
					ED EM-B3 ²⁾	1504 x 218 x 80	2166 5217 781	3,50

¹⁾ : Luminaires suitable for IoT (Internet of Things)

²⁾ : Luminaires with emergency light unit single battery 3h

Accessories

Type	Colour	Material	Details	Art. no.		
<i>Mounting</i>						
Complete suspension set	LPA-PS 120 3x0,75	vw	Mix	Bracket, canopy D=123mm, wire D=1mm, L=1700mm, 3x0.75mm ² for lens pro LED	2166 9003 100	1 0,59
	LPA-PS 120 5x0,75	vw	Mix	Bracket, canopy D=123mm, wire D=1mm, L=1700mm, 5x0.75mm ² for lens pro LED	2166 9005 100	1 0,63

Replacement parts

Type	Colour	Material	Details	Art. no.		
<i>Lighting technology</i>						
Diffuser	Wanne LPAK 1200	tz	PMMA	for LPAK/1200	2166 1200 180	1 0,72
	Wanne LPAK 1500	tz	PMMA	for LPAK/1500	2166 1500 180	1 0,91
	Wanne LPAK 0600	tz	PMMA	for LPAK/0600	2166 0600 180	1 0,37
	Wanne LPAKPC 1200	tz	PC	for LPAKPC/1200	2166 1200 181	1 0,72
	Wanne LPAKPC 1500	tz	PC	for LPAKPC/1500	2166 1500 181	1 0,91
	Wanne LPAKPC 0600	tz	PC	for LPAKPC/0600	2166 0600 181	1 0,37



lens basic



lens basic – has its own technical structure and character

- Modern diffuser luminaire for T5
- Surface-mounted luminaires with opal diffuser profiles
- White acrylic opal diffuser
- Sheet steel housing with attached polycarbonate end faces



Type overview

- LBAK Diffuser, opal direct distribution

lens basic T5



Mounting:

- Ceiling surface
- Mounting rail
- Suspended

Housing:

- Sheet steel profile, front sides made of polycarbonate

Lighting technology LBAK:

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

Lamp:

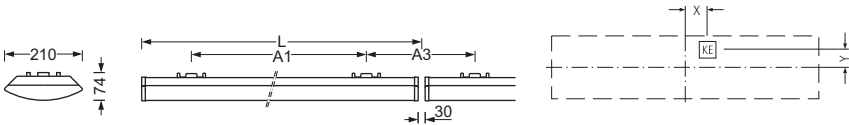
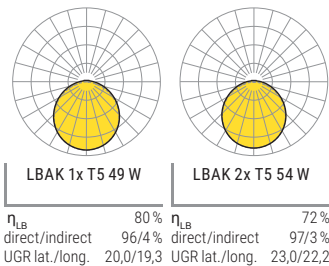
- For fitting with lamp(s) T5

Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

Accessories:

- The SAG-ECG counterweight is recommended for a suspended mounting of single-lamp luminaires. Further more, the SAGB suspension kit and the SAYE-PS suspension set must be ordered separately for a suspended mounting.



Products

Type	Lamps	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Diffuser, opal direct distribution</i>							
lens basic-LBAK	T5 1x14/24W	16	vw	ECG	603 x 210 x 74	2150 1924 180	0,95
	T5 1x21/39W	23	vw	ECG	903 x 210 x 74	2150 1934 180	2,32
	T5 1x28/54W	58	vw	ECG	1203 x 210 x 74	2150 1944 180	3,00
	T5 1x35/49/80W	52	vw	ECG	1503 x 210 x 74	2150 1954 180	3,20
	T5 1x49W	52	vw	ECG EM-B1 ¹⁾	1503 x 210 x 74	2150 1497 180	3,73
				ECG EM-B3 ¹⁾	1503 x 210 x 74	2150 1497 780	3,80
	T5 1x80W	85	vw	ECG EM-B1 ¹⁾	1503 x 210 x 74	2150 1807 180	3,05
				ECG EM-B3 ¹⁾	1503 x 210 x 74	2150 1807 780	3,12
	T5 2x14/24W	23	vw	ECG	603 x 210 x 74	2150 2924 180	0,95
	T5 2x21/39W	46	vw	ECG	903 x 210 x 74	2150 2934 180	2,32
	T5 2x28/54W	116	vw	ECG	1203 x 210 x 74	2150 2944 180	3,30
	T5 2x35/49W	104	vw	ECG	1503 x 210 x 74	2150 2964 180	3,80
	T5 2x49W	104	vw	ECG EM-B1 ¹⁾	1503 x 210 x 74	2150 2497 180	4,03
				ECG EM-B3 ¹⁾	1503 x 210 x 74	2150 2497 780	4,10

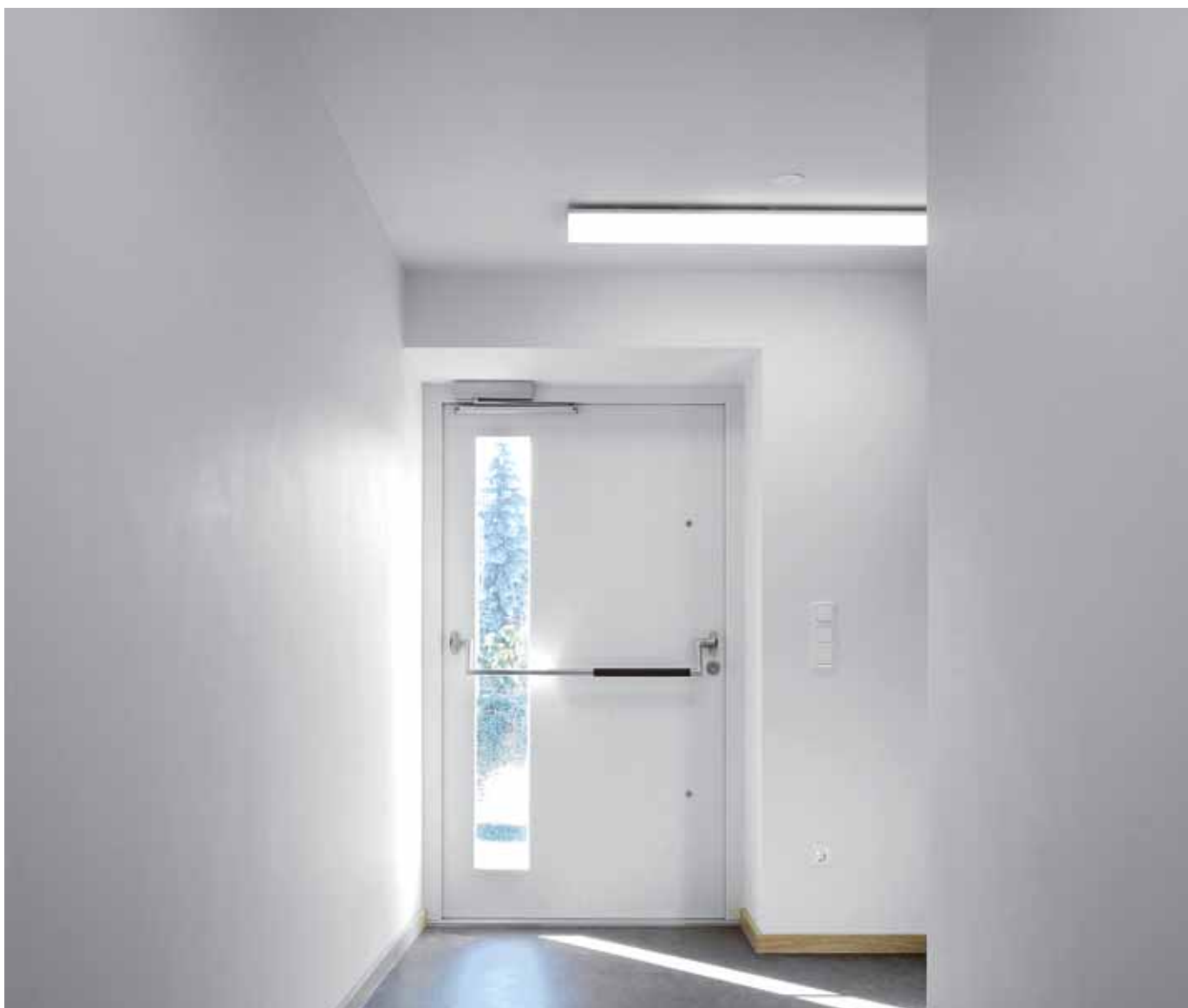
¹⁾ : Luminaires with emergency light unit single battery 1h + 3h

Accessories

	Type	Colour	Material	Details	Art. no.		
<i>Mounting</i>							
Complete suspension set	SAYE-PS 120 3x0,75	vw	Mix	Rectangular canopy L=160mm, metal ceiling cylinder, 2 wires D=1.2mm L=1900mm, 2 cross-spans L=120mm, white connection cable, for hokal, procube, cubus LED/T5, lens basic	9123 0023 121	1	0,30
	SAYE-PS 120 5x0,75	vw	Mix	Rectangular canopy L=160mm, metal ceiling cylinder, 2 wires D=1.2mm L=1900mm, 2 cross-spans L=120mm, white connection cable, for hokal, procube, cubus LED/T5, lens basic	9123 0025 121	1	0,35
Suspension bracket	SAGB	me	St.galv.	Bracket for lens basic	9593 5000 100	2	0,15
Counter-balance weight	SAG -EVG	sw	Mix	ECG weight compensation for cubus T5 1x, 2x, lens basic 1x, hokal HLA. T5, procube CUA. T5	9593 4350 100	1	0,35

Replacement parts

	Type	Colour	Material	Details	Art. no.		
<i>Lighting technology</i>							
Diffuser profile	Wannenprofil LBAK T5 14/24	tz	PMMA	for LBAK T5 1x14/24, 2x14/24	2150 9920 180	1	0,41
	Wannenprofil LBAK T5 21/39	tz	PMMA	for LBAK T5 1x21/39, 2x21/39	2150 9930 180	1	0,61
	Wannenprofil LBAK T5 28/54	tz	PMMA	for LBAK T5 1x28/54, 2x28/54	2150 9940 180	1	0,81
	Wannenprofil LBAK T5 35/49/80	tz	PMMA	for LBAK T5 1x35/49/80, 2x35/49	2150 9950 180	1	1,01





KL



KL surface-mounted diffuser luminaires – eternal classics

- Classic diffuser luminaires with protection rating IP50
- Surface-mounted luminaires with opal or prismatic diffusers
- Deep-drawn acrylic diffuser with sheet steel housing



Type overview

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



LED A++ A+ IP 50

Mounting:

- Ceiling surface
- Mounting rail
- Wall mounting
- Suspended

Housing:

- Sheet steel

Lighting technology KLKF:

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

Lamp:

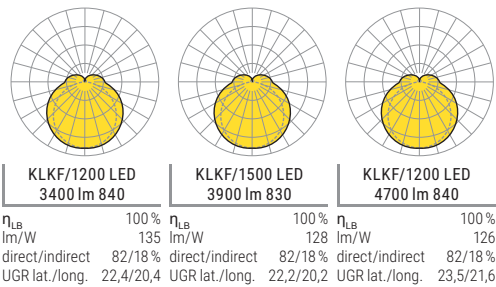
- LED 50000h L80/B10
- CRI ≥ 80 / 3000K, 4000K

Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

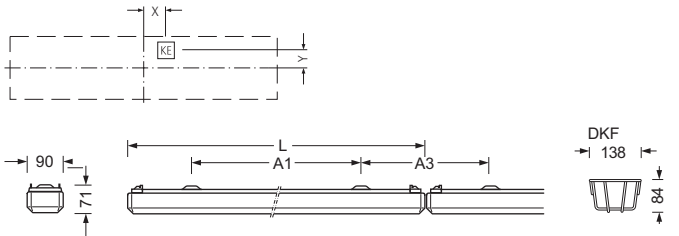
Mounting instructions:

- Note on protection rating:
IP50 for ceiling and wall mounting,
IP40 for mounting rails and suspended installations



Dimensions

Type	Versions	LxBxH/DxH	A1	A3	KE X/Y
KL./0600	LED	615 x 90 x 71	490	130	160 / 0
KL./1200	LED	1215 x 90 x 71	900	320	40 / 0
KL./1500	LED	1515 x 90 x 71	1100	420	30 / 0





Products

Type	Lamps	lm/W	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	
<i>Diffuser, opal direct/indirect distribution</i>								
KLKF/0600	LED 2300 830	119	20	vw	ED	615 x 90 x 71	2110 0624 120	1,55
	LED 2500 840	125	20	vw	ED	615 x 90 x 71	2110 0614 120	1,55
KLKF/1200	LED 3200 830	129	25	vw	ED	1215 x 90 x 71	2110 1224 120	2,10
					DALI ¹⁾	1215 x 90 x 71	2110 1226 620	2,10
	LED 3400 840	135	25	vw	ED	1215 x 90 x 71	2110 1214 120	2,10
					DALI ¹⁾	1215 x 90 x 71	2110 1216 620	2,10
	LED 4500 830	120	37	vw	ED	1215 x 90 x 71	2110 0224 120	2,10
					DALI ¹⁾	1215 x 90 x 71	2110 0226 620	1,85
	LED 4700 840	126	37	vw	ED	1215 x 90 x 71	2110 0214 120	2,10
					DALI ¹⁾	1215 x 90 x 71	2110 0216 620	2,10
KLKF/1500	LED 3900 830	128	31	vw	ED	1515 x 90 x 71	2110 1524 120	2,60
					DALI ¹⁾	1515 x 90 x 71	2110 1526 620	2,60
	LED 4200 840	135	31	vw	ED	1515 x 90 x 71	2110 1514 120	2,60
					DALI ¹⁾	1515 x 90 x 71	2110 1516 620	2,60
	LED 5600 830	120	47	vw	ED	1515 x 90 x 71	2110 0524 120	2,60
					DALI ¹⁾	1515 x 90 x 71	2110 0526 620	2,30
	LED 5900 840	126	47	vw	ED	1515 x 90 x 71	2110 0514 120	2,60
					DALI ¹⁾	1515 x 90 x 71	2110 0516 620	2,30

¹⁾ : Luminaires suitable for IoT (Internet of Things)

Accessories

Type	Colour	Material	Details	Art. no.		
<i>Protection</i>						
Protective wire cage	DKF 0600	gecr	St.galv.	for PA T8 1x18, KLKF/0600 LED	5976 1180 100	1 0,72
	DKF 1200	gecr	St.galv.	for parsas; PU, PUPC T5 1x28/54, 2x28; PA, PC, T8 1x36; KLKF/200 LED	5976 1360 100	1 1,23
	DKF 1500	gecr	St.galv.	for parsas; PU, PUPC T5 1x35/49/80, 2x35/49; PA, PC, T8 1x58; KLKF/1500 LED	5976 1580 100	1 1,54
Protective cage mounting DKF -HBK	vw	St.galv.	Retaining bracket for DKF	5976 1100 100	2	0,17
<i>Mounting</i>						
Chain suspension	KAH	ws	PA	Suspension hook for ILG, KLKF LED	5910 2000 100	2 0,10
<i>Structure</i>						
Luminaires fixing	SDLA	me	St.galv.	for SDT Basic	1890 0058 100	1 0,03

Replacement parts

Type	Colour	Material	Details	Art. no.		
<i>Lighting technology</i>						
Diffuser	Wanne KLKF LED 0600	tz	PMMA	für KLKF 0600 LED	2110 9600 120	22,00 1 0,20
	Wanne KLKF LED 1200	tz	PMMA	für KLKF 1200 LED	2110 9200 120	26,00 1 0,38
	Wanne KLKF LED 1500	tz	PMMA	für KLKF 1500 LED	2110 9500 120	28,00 1 0,41



Products

Type	Lamps	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	
<i>Diffuser, opal direct/indirect distribution</i>							
KLKF	T8 1x18W	19	vw	ECG	660 x 106 x 88	2110 1184 120	1,05
	T8 1x36W	36	vw	ECG	1270 x 106 x 88	2110 1364 120	1,60
	T8 1x58W	55	vw	ECG	1570 x 106 x 88	2110 1584 120	2,20
	T8 2x36W	72	vw	ECG	1270 x 190 x 88	2110 2364 120	2,85
	T8 2x58W	110	vw	ECG	1570 x 190 x 88	2110 2584 120	3,40
	T8 4x18W	76	vw	ECG	665 x 665 x 92	2110 4184 120	6,80
<i>Diffuser, prismatic direct/indirect distribution</i>							
KLPF	T8 1x18W	19	vw	ECG	660 x 106 x 88	2110 1184 130	1,05
	T8 1x36W	36	vw	ECG	1270 x 106 x 88	2110 1364 130	1,75
	T8 1x58W	55	vw	ECG	1570 x 106 x 88	2110 1584 130	2,25
	T8 2x36W	72	vw	ECG	1270 x 190 x 88	2110 2364 130	2,80
	T8 2x58W	110	vw	ECG	1570 x 190 x 88	2110 2584 130	3,32
	T8 4x18W	76	vw	ECG	665 x 665 x 92	2110 4184 130	6,80

Accessories

Type	Colour	Material	Details	Art. no.		
<i>Electrical technology</i>						
Emergency lamp socket E14 H	ws	Polymer	E14/IT-25 horiz. for T8	9452 0320 100	1	0,20
<i>Protection</i>						
Protective wire cage	DKK 1200	gecr	St.galv.	for KL...T8	2916 9360 100	1 2,19
	DKK 1500	gecr	St.galv.	for KL...T8	2916 9580 100	1 2,70
Protective cage mounting DKK -HB	vw	St.galv.	Retaining bracket for DKK	2916 9000 100	2	0,10

Replacement parts

Type	Colour	Material	Details	Art. no.		
<i>Lighting technology</i>						
Diffuser	Wanne KLKF 1/0600	tz	PMMA	for KLKF T8 1x18	9247 1180 100	1 0,18
	Wanne KLKF 1/1200	tz	PMMA	for KLKF T8 1x36	9247 1360 100	1 0,48
	Wanne KLKF 1/1500	tz	PMMA	for KLKF T8 1x58	9247 1580 100	1 0,53
	Wanne KLKF 2/1200	tz	PMMA	for KLKF T8 2/36	9247 2360 100	1 0,75
	Wanne KLKF 2/1500	tz	PMMA	for KLKF T8 2x58	9247 2580 100	1 0,77
	Wanne KLKF 4/0600	tz	PMMA	for KLKF T8 4x18	9247 4180 100	1 1,72
	Wanne KLPF 1/0600	tp	PMMA	for KLPF T8 1x18	9248 1180 100	1 0,18
	Wanne KLPF 1/1200	tp	PMMA	for KLPF T8 1x36	9248 1360 100	1 0,48
	Wanne KLPF 1/1500	tp	PMMA	for KLPF T8 1x58	9248 1580 100	1 0,53
	Wanne KLPF 2/1200	tp	PMMA	for KLPF T8 2x36	9248 2360 100	1 0,75
	Wanne KLPF 2/1500	tp	PMMA	for KLPF T8 2x58	9248 2580 100	1 0,77
	Wanne KLPF 4/0600	tp	PMMA	for KLPF T8 4x18	9248 4180 100	1 1,71







WL



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

- Diffuser luminaires for wall and ceiling installation
- Classic shapes
- Opal tinted acrylic diffuser



Type overview

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

WBLR LED



LED A+ A++ 3000 650°C IK03 F CE IP 40

Mounting:

- Ceiling surface
- Wall mounting

Housing:

- Sheet steel

Lighting technology WBLR:

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

Lamp:

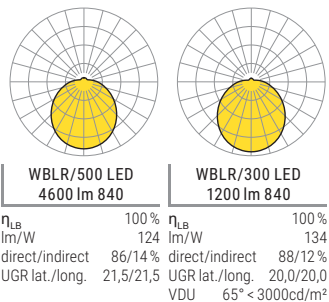
- LED 50000h L80/B10
- CRI ≥ 80 / 3000K, 4000K

Switching:

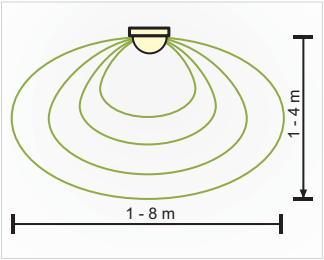
- 1 Controller
- Electronic driver
- 230V 50Hz

Miscellaneous:

- Luminaires with integrated sensors available



For an effective ceiling junction: the silver-coloured decorative ring.



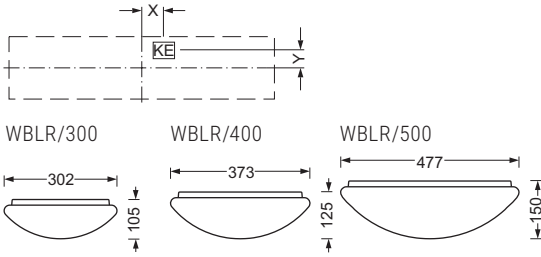
Detection zone of the S9 HF motion sensor.

WBLR



Dimensions

Type	Versions	LxBxH/DxH	A1	KE X/Y
WBLR/300	LED	302 x 105	208	60 / 0
WBLR/400	LED	373 x 125	272	77 / 0
WBLR/500	LED	477 x 150	360	103 / 0



Products

Type	Lamps	lm/W	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	
<i>Diffuser, opal direct/indirect distribution</i>								
WBLR/300	LED 1100 830	129	9	vw	ED	302 x 105	2531 0204 110	0,90
	LED 1200 840	134	9	vw	ED	302 x 105	2531 0214 110	0,90
WBLR/400	LED 2100 830	116	18	vw	ED	373 x 125	2531 0124 110	1,40
					ED EM-B3 ²⁾	373 x 125	2533 0124 110	1,90
					ED S9 ¹⁾	373 x 125	2534 0124 110	1,60
	LED 2300 840	124	18	vw	ED	373 x 125	2531 0134 110	1,40
					ED EM-B3 ²⁾	373 x 125	2533 0134 110	1,90
					ED S9 ¹⁾	373 x 125	2534 0134 110	1,60
WBLR/500	LED 2900 830	117	25	vw	ED	477 x 150	2531 0144 110	2,40
					ED EM-B3 ²⁾	477 x 150	2533 0144 110	2,90
					ED S9 ¹⁾	477 x 150	2534 0144 110	2,60
	LED 3100 840	124	25	vw	ED	477 x 150	2531 0154 110	2,40
					ED EM-B3 ²⁾	477 x 150	2533 0154 110	2,90
					ED S9 ¹⁾	477 x 150	2534 0154 110	2,60
	LED 4300 830	116	37	vw	ED	477 x 150	2531 0184 110	2,50
					ED S9 ¹⁾	477 x 150	2534 0184 110	2,70
	LED 4600 840	124	37	vw	ED	477 x 150	2531 0194 110	2,50
					ED S9 ¹⁾	477 x 150	2534 0194 110	2,70

¹⁾ : Luminaires with sensor

²⁾ : Luminaires with emergency light unit single battery 3h

Accessories

Type	Colour	Material	Details	Art. no.		
<i>Design</i>						
Decorative ring	WBLR-DR 318	si	St	D=318mm, H=5mm for WBLR /300	2531 1000 100	1 0,42
	WBLR-DR 388	si	St	D=388mm, H=5mm for WBLR /400	2531 2000 100	1 0,41
	WBLR-DR 492	si	St	D=492mm, H=5mm for WBLR /500	2531 3000 100	1 0,42

Replacement parts

Type	Colour	Material	Details	Art. no.		
<i>Lighting technology</i>						
Diffuser	Wanne WBLR glatt 302	tz	PMMA	D=302 mm for WBLR/300	2531 0300 110	1 0,17
	Wanne WBLR glatt 400	tz	PMMA	D=373 mm for WBLR/400 with seal for WBLR	2531 0400 110	1 0,27
	Wanne WBLR glatt 500	tz	PMMA	D=477 mm for WBLR/500 with seal for WBLR	2531 0500 110	1 0,47

WQL LED

LED A++    IP 65

Mounting:

- Ceiling surface
- Wall mounting

Housing:

- Polycarbonate

Lighting technology WQL:

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

Lamp:

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

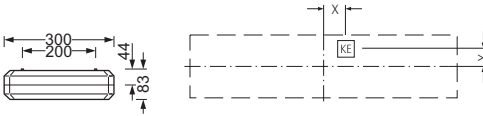
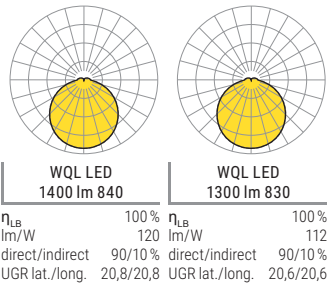
Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

WQL

Dimensions

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



Products

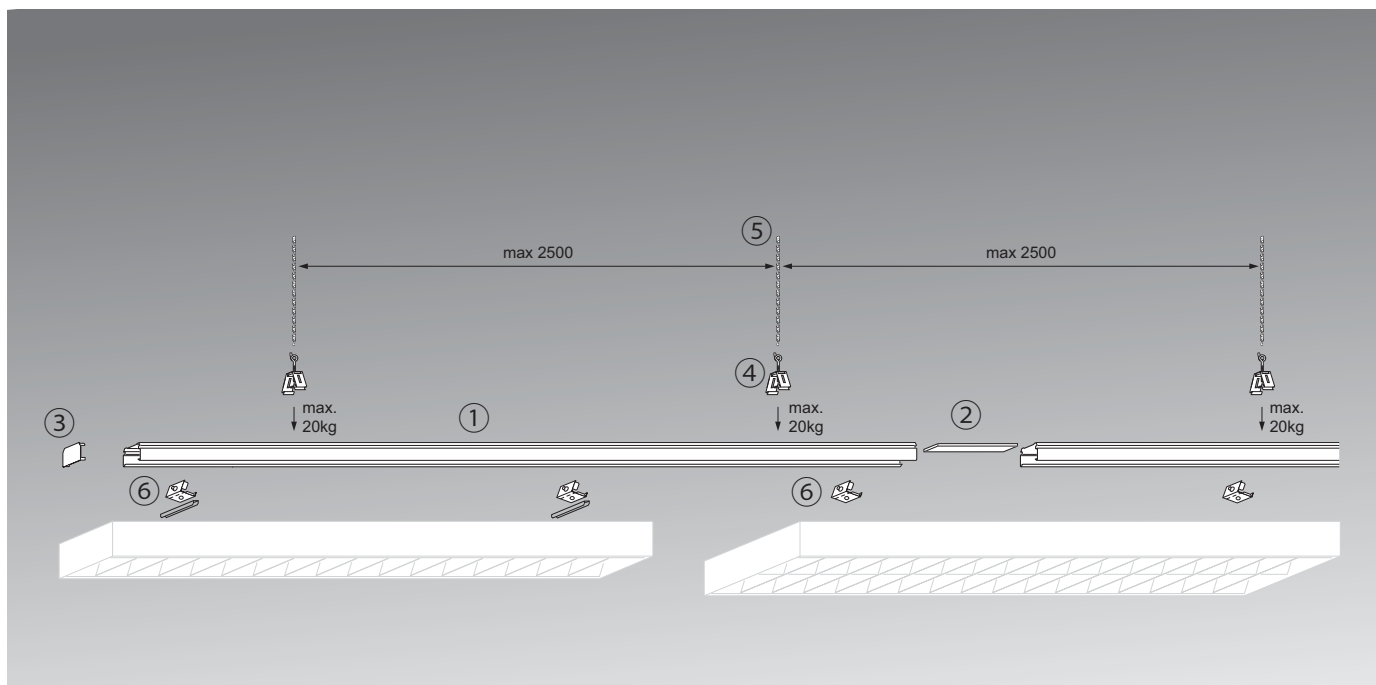
Type	Lamps	lm/W	P _{sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	
<i>Diffuser, opal direct/indirect distribution</i>								
WQL	LED 1300 830	112	12	vw	ED	300 x 300 x 83	2510 0024 100	1,52
	LED 1400 840	119	12	vw	ED	300 x 300 x 83	2510 0014 100	1,52

Replacement parts

Type	Colour	Material	Details	Art. no.	
<i>Lighting technology</i>					
Diffuser	tz	PMMA	L/W = 300mm for WQL LED	9221 9180 100	1 0,21



Accessories for mounting rail installation



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

Accessories

	Type	Colour	Material	Details	Art. no.		
Design							
Section cover	SDBAV 1500	vw	St	l=7x219=1533mm for SDT Basic	1884 5580 101	1	0,85
	SDBK 1500	vw	PVC	for SDT 1500, ATS	1883 7580 100	1	0,24
Protection							
Protective cover IP20	SDTE	vw	PC	End face for SDT, ATS	1890 0231 100	2	0,02
Mounting							
Single wire suspension	SDCS	ws	Inox+mix	l=2000mm for SDT	1890 0034 100	1	0,07
	SDCSE	ws	Inox+mix	Canopy D=123mm, rope D=1.5mm, L=2200mm, incl. electrical connection cable 3x1.5mm ² for SDT	1890 0044 100	1	0,30
Chain suspension	KK	me	St	Node chain l=30m, for SDT, SDT Basic, ATS, suspended luminaires	9282 9300 100	1	4,60
	KP 80	me	St+PC	Canopy and chain l=800mm for suspended luminaires	9282 9080 100	1	0,27
	SDH	me	Inox	Chain suspension for SDT, ATS	1890 0039 100	1	0,04
	SDT -AP	me	St	Suspension profile, mounting rail connector for SDT; suspension spacing up to 4.5 m	1890 0022 100	1	0,93
	SDT -ZA	me	St	Central bracket for SDT	6820 9300 110	1	0,20
Mounting clip	SDCT	me	Inox	Attachment SDT to visible T-rail	1890 0042 100	1	0,03
	SDD	me	Inox	Attachment SDT to ceiling	1890 0033 100	1	0,01
Structure							
Luminaires fixing	SDLA	me	St.galv.	for SDT Basic	1890 0058 100	1	0,03
	SDLAD	me	St.galv.	for SDT Basic, KE-Y > 0mm und 2x for THLA+SDTT	1890 0068 100	1	0,07
Mounting rail	SDT Basic 1500/II	vw	St.galv.	l=3070mm 2.6kg for surface-mounted luminaires	1825 2580 150	1	2,60
	SDT Basic 1500/III	vw	St.galv.	l=4605mm 3.9kg for surface-mounted luminaires	1825 3580 150	1	3,90
Mounting rail connector	SDTSV	me	St.galv.	for SDT...Basic, ATS	1890 0092 100	1	0,30



Application pictures

Photographer	Project	Page
Paul Zandre, Milton Bridge UK	South Rotunda, Glasgow UK	1
Boris Golz, Arnberg DE	IGS - Integrierte Gesamtschule Nienburg, Nienburg, DE	8
Inga Paas, Köln DE	Werner-Wicker-Klinik, Bad Wildungen-Reinhardshausen, DE	10
Jana Wenderoth, Kassel DE	Firmenzentrale medDV, Fernwald, DE	12
Hermann Kaufmann, Euro Unitech GmbH, Wien AT	Vienna-City-Marathon, Wien, AT	17
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Frank Freihofer, Kitzingen DE	KÄFER Stahlhandel, Gochsheim, DE	26
Christian Tech, Fulda DE	Autohaus Herold, Heiligenstadt Ofr. DE	29
Jana Wenderoth, Kassel DE	Einkaufsmarkt, Sandershausen DE	29
Christian Tech, Fulda DE	ZEE - Zentrum für Elektromobilität und Energieeffizienz, Barleben DE	29
Hermann Kaufmann, Euro Unitech GmbH Wien AT	Steuerkanzlei Emsenhuber, Melk, AT	30
Frank Freihofer, Kitzingen DE	ESN Deutsche Tischtennis Technologie GmbH, Hofheim, DE	37
Frank Freihofer, Kitzingen DE	BayWa AG, Großwallstadt, DE	38
Jan-Eric Winkelmann, Rostock DE	Evangelische Stiftung Michaelshof, Rostock, DE	44
Boris Golz, Arnberg DE	IGS - Integrierte Gesamtschule Nienburg, Nienburg, DE	48
Christian Tech, Fulda DE	ZEE - Zentrum für Elektromobilität und Energieeffizienz, Barleben, DE	50
Frank Freihofer, Kitzingen DE	Volksschule Oberhaid, Oberhaid, DE	55
Tridonic GmbH und Co.KG, Dornbirn AT	Sparkasse Mainfranken, Würzburg, DE	56
Michael Meschede, Kaufungen DE	Pop-Akademie, Mannheim, DE	59
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Alex	fotolia.com	72
Robert Endres, Regiolux GmbH, Königsberg DE	Regiolux GmbH, Königsberg, DE	75
Jens Schumann, Berlin DE	KiTa Farbklecks, Berlin, DE	78
Ingrid Fiebak-Kremer, Leer DE	AIDA Luna, Papenburg, DE	81
Frank Freihofer, Kitzingen DE	Christian-von-Bomhard-Schule Uffenheim, Uffenheim, DE	82
Frank Freihofer, Kitzingen DE	TGZ Würzburg, Würzburg, DE	86
Gerhard Hagen, Bamberg DE	Georg Hartmann Realschule, Forchheim, DE	88
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Frank Freihofer, Kitzingen DE	Staatliche Realschule, Ebern, DE	95
Tom Gundelwein, Saarbrücken DE	Friedrich Wilhelm Gymnasium, Trier, DE	96
Dan Ax, Frankfurt/Main DE	Musikhaus Six und Four, Sulzbach/Saar, DE	98
G. Bogardi, Budapest HU	BME Building Q Budapest Lágymányos, Budapest, HU	103
Mila Hacke, Berlin DE	Schweizerhof Grundschule, Berlin, DE	104
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Dan Ax, Frankfurt/Main DE	Musikhaus Six und Four, Sulzbach/Saar, DE	108
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Robert Endres, Regiolux GmbH, Königsberg DE	Regiolux GmbH, Königsberg, DE	135
Inga Paas, Köln DE	Kindergarten Solingen, Solingen, DE	137
Frank Freihofer, Kitzingen DE	KÄFER Stahlhandel, Gochsheim, DE	138
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denisismagilov	otolia.com	144
Jana Wenderoth, Kassel DE	medDV GmbH, Fernwald DE	147
Dan Ax, Frankfurt/Main DE	ETZ der Innung für Elektro- und Informationstechnik Stuttgart K.D.Ö.R., Stuttgart, DE	150
Stefan Meyer, Berlin DE	MBFZ toolcraft GmbH, Spalt, DE	154
Jörg Wenderoth, Volker Jakob Industrievertretung Baunatal DE	Orthopädische Praxis, Fritzlar, DE	159
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Jana Wenderoth, Kassel DE	Einkaufsmarkt, Sandershausen DE	161
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Frank Freihofer, Kitzingen DE	Rathaus Haßfurt, DE	200
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Christian Fischer, Österreichs Energie, Wien, AT	Österreichs Energie, Wien, AT	523
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Frank Freihofer, Kitzingen DE	Fraunhofer Institut ISC III, Würzburg DE	536
Frank Freihofer, Kitzingen DE	Fraunhofer Institut ISC III, Würzburg DE	539
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Kundenbetreuung

T 09525 89-250
F 09525 89-251
bestellungen@regiolux.de

Angebots-/Objektbearbeitung

T 09525 89-255
F 09525 89-256
angebote@regiolux.de

Technischer Service

T 09525 89-260
F 09525 89-261
service@regiolux.de

Lichtplanung

T 09525 89-260
F 09525 89-261
lichtplanung@regiolux.de

Key-Account

Energieoptimierte Lichtsysteme
T 09525 89-230
F 09525 89-231
keyaccount@regiolux.de

Ansprechpartner vor Ort

Die Kontaktdaten zu Ihren
Ansprechpartnern vor Ort finden
Sie immer aktuell im Internet
unter www.regiolux.de



► Nord

01 Mecklenburg-Vorpommern

Gritt Schlemminger
M 0151 14733968
gritt.schlemminger@regiolux.de

02 Hamburg, Schleswig-Holstein

Marina Koch
M 0160 7177746
marina.koch@regiolux.de

Michael Brott
M 0160 7177747
michael.brott@regiolux.de

03 Bremen

Thomas Meyer Lichtberatung
Hans-Mohrmann-Str. 19
28357 Bremen
T 0421 20076166
t.meyer-licht@t-online.de

04 Berlin, Brandenburg

ELLUX Vertriebs GmbH
Fritschestraße 27/28
1. OG, Aufgang C
10585 Berlin-Charlottenburg
T 030 772035-0
info@ellux.de

05 Hannover

Detlef Sikora GmbH
Lägenfeldstraße 7
30952 Ronnenberg
T 0511 43804-0
F 0511 43804-49
hannover@sikora.de

Ralf Reichel
M 0160 7177738
ralf.reichel@regiolux.de

06 Bielefeld

scharkon Lichtkonzepte GmbH
Kruppstraße 47
59227 Ahlen
T 02382 96868-0
F 02382 96868-29
info@scharkon.de

07 Sachsen-Anhalt

Detlef Sikora GmbH
Gewerbegebiet Süd Nr. 2
39443 Staßfurt
T 039266 931-0
F 039266 931-15
stassfurt@sikora.de

08 Düsseldorf

Daniel Pangritz
M 0160 7177745
daniel.pangritz@regiolux.de

Andre Schäuble
M 0160 7177737
andre.schaeuble@regiolux.de

09 Kassel

Jörg Wenderoth
Industrivertretung
Platz des Friedens 8
34225 Baunatal
T 0561 949371-0
info@wenderoth-iv.de

10 Köln

Wolfgang Küsgen
Industrivertretungen GmbH
Immendorfer Straße 1
50354 Hürth-Effern
T 02233 80803-0
F 02233 80803-29
info@kuesgen-gmbh.de

11 Wipperfürth

Martin Rösger
Industrivertretungen
Julius-Doms-Straße 15
51373 Leverkusen
T 0214 6026555
info@ivroesgen.de

14 Koblenz

bernd oedekoven gmbh
gebäudetechnik & licht
Rudolf-Diesel-Straße 11
56220 Urmitz
T 02630 9635-0
F 02630 9635-35
info@oedekovengmbh.de

17 Saarbrücken

bernd oedekoven gmbh
gebäudetechnik & licht
Außenbüro Trier/Saarbrücken
54421 Reinsfeld
M 0176 19635502
fjk@oedekovengmbh.de

► Süd

12 Sachsen

Jürgen Bergmann
M 0172 8670049
juergen.bergmann@regiolux.de

Jörg Irmisch
T 03771 3650910
M 0172 8670062
F 03771 3650909
joerg.irmisch@regiolux.de

13 Thüringen

Jens Schlothauer
T 036077 933587
M 0151 14733955
F 036077 933588
jens.schlothauer@regiolux.de

15 Rhein-Main

Markus Schimmer
M 0151 14733980
markus.schimmer@regiolux.de

16 Nordbayern

Peter Gröger
T 09722 944826
M 0172 8670045
F 09722 944827
peter.groeger@regiolux.de

Stephan Althaus
T 0921 98008087
M 0160 7177731
F 0921 80029426
stephan.althaus@regiolux.de

18 Bayern-Mitte

Bernhard Zirkelbach
T 09528 950103
M 0172 8670047
F 09528 950163
bernhard.zirkelbach@regiolux.de

20 Stuttgart

Frank Bossert e.Kfm.
Industrivertretungen
Industriegebiet Aldingen
Hofener Weg 17
71686 Remseck
T 0711 577669-60
F 0711 577669-66
info@bossert-weissinger.de

21 Südbayern

Stephan Schlatzer
Lichtberatung
Thalhammerstraße 12
83075 Bad Feilnbach - Au
T 08064 909495
F 08064 909496
Schlatzer@DieLichtberater.de

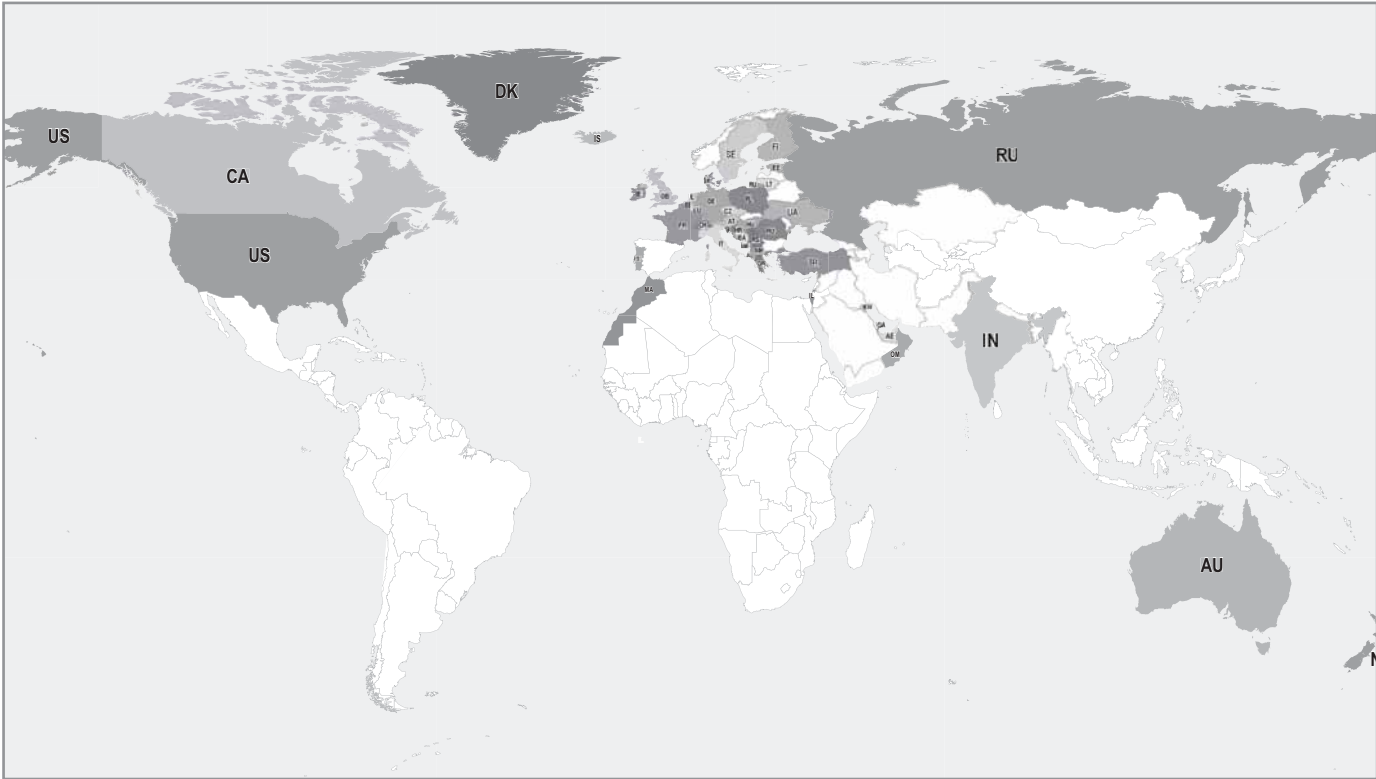
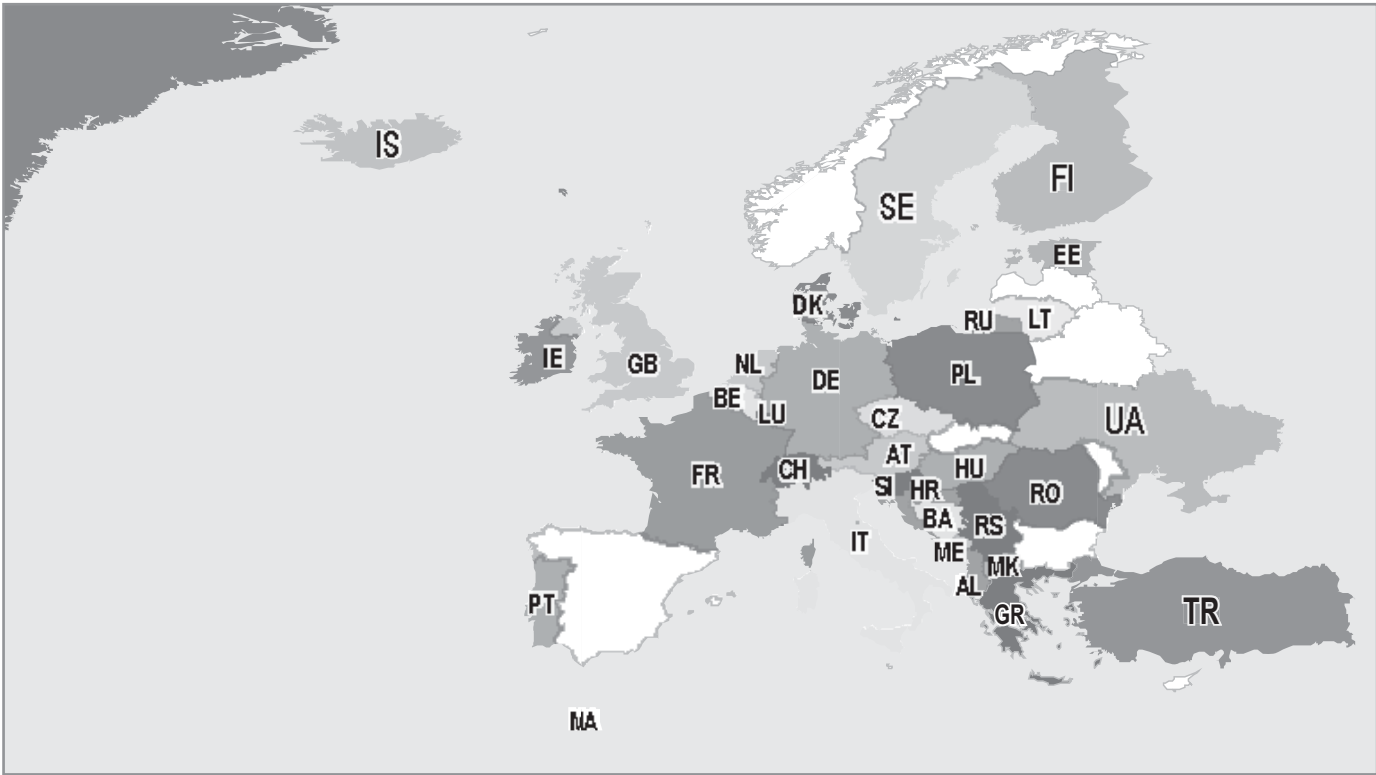
Dieter Beier
T 08435 9448966
M 0151 14733958
F 08435 9448572
dieter.beier@regiolux.de

22 Mannheim, Nordbaden-Pfalz

Licht-Team Handelsvertretungen OHG
Birkenweg 7
67346 Speyer
T 06232 606910
F 06232 606915
info@das-licht-team.de

23 Südbaden

Fred Abel GmbH
Vertretungen der Elektro-Industrie
Im Ebnet 1
79238 Ehrenkirchen
T 07633 9501-0
F 07633 9501-30
info@fredabel.de



► International

Headquarter

Regiolux GmbH
Hellinger Straße 3
D 97486 Königsberg
T +49 9525 89 0
F +49 9525 89 7
info@regiolux.de
www.regiolux.de

Orders and Offers

T +49 9525 89-220
F +49 9525 89-444
export@regiolux.de

Technical Support

T +49 9525 89-260
F +49 9525 89-261
service@regiolux.de

Lighting Design

T +49 9525 89-260
F +49 9525 89-261
lightingdesign@regiolux.de

Sales branch Poland

Regiolux Polska Sp. z o.o.
ul. Długosza 48-60
51-162 Wrocław
T +48 608 693 716
www.regiolux.pl
biuro@regiolux.pl

Local Contact Partners: You can find the contact data for your local contact partners always up-to-date on the internet at www.regiolux.de

Sales Managers

Daniel Hau
T +49 9525 89-657
F +49 9525 89-444
M +49 160 7177734
daniel.hau@regiolux.de

Belgium, Finland, France, Israel, Italy,
Luxembourg, Middle East, Morocco, Sweden,
Turkey

Stefan Nestmann
T +49 9525 89-438
F +49 9525 89-444
M +49 172 8670054
stefan.nestmann@regiolux.de

Bulgaria, Czech Republic, Denmark,
Hungary, Netherlands, Poland,
Slovakia

Torsten Kiesslich-Koecher
T +49 9525 89-450
F +49 9525 89-444
M +49 172 8682620
torsten.kiesslich@regiolux.de

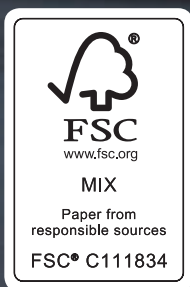
Australia, Canada, Cyprus, Estonia, Greece,
India, Ireland, Latvia, Lithuania, New Zealand,
Portugal, Romania, Russian Federation/CIS,
Slovenia, Spain, Ukraine, United Kingdom, USA

Reinhold Pfister
T +49 9525 89-451
F +49 9525 89-444
M +49 172 8670050
reinhold.pfister@regiolux.de

Austria, Croatia, Iceland,
Montenegro, Norway, Serbia,
Switzerland

For countries not specified above, please refer to: T +49 9525 89220, export@regiolux.de





REGIOLUX

Regiolux GmbH
Hellinger Straße 3
D 97486 Königsberg
T +49 9525 89 0
F +49 9525 89 7
info@regiolux.de
www.regiolux.de