

Lighting Systems



REGIOLUX

Lighting Systems

functional - effective - efficient

Exclusion of Liability

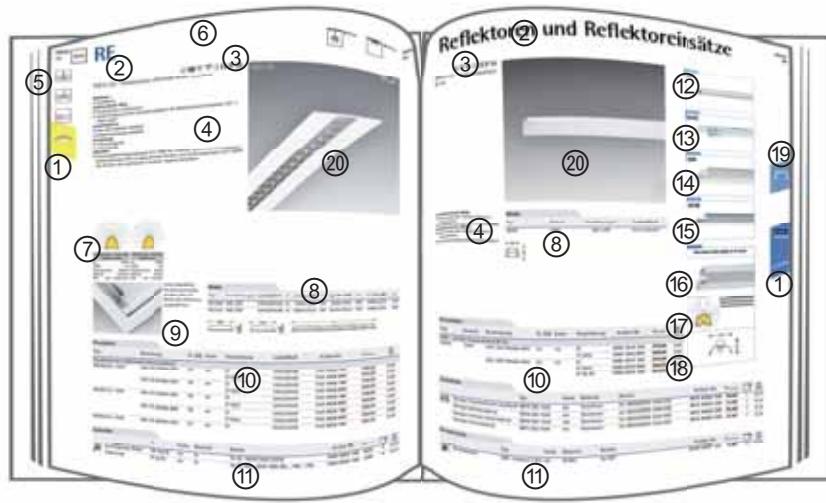
Illustrations, dimensions and weights in our catalogues, price lists and quotations are non-binding. Subject to technical changes, errors and color deviations. All luminaires have been designed for 230V 50Hz mains connection and ambient conditions according to DIN EN 60598 unless otherwise stated, and 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

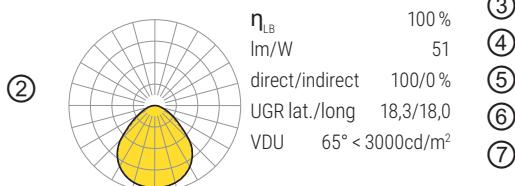


- ① Product group
- ② Luminaire family, type
- ③ Certification: Overview and explanation in Technical information chapter 8: 8.6 Certification, insulation class and protection rating
- ④ Description with regard to lighting technology, housing, miscellaneous
- ⑤ Indications with regard to ceiling systems
- 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

Explanations

Explanation of lighting technological data

① PNEMP/625 IP54 LED 4400 lm 840



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 $\Phi_L(\tau_i)$ 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 ½ 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

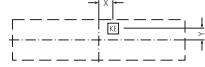
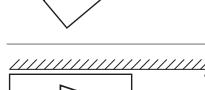
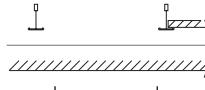
Abbr.	Description
ECG	Electronic ballast
Llb	Low-loss ballast
ind	Inductive, must be compensated on-site
multi	Multiwatt T5
ED	Electronic driver, not dimmable
EDM	Electronic driver Multi, not dimmable (8 or 16 adjustable lighting levels)
DALI	Electronic driver, DALI, dimmable
DALI DT8	Electronic driver, 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



Configuratlon with sensor available



Configuratlon 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)



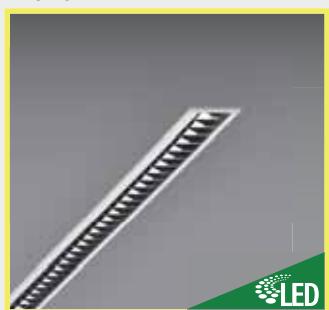
Beam angle

Explanations

Materials		Colour code	
Abbr.	Description	Abbr.	Colour
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	al	aluminium
ABS	Acrylonitrile Butadiene Styrene Copolymerisate	aeh	aluminium high gloss
Al	Aluminium	aes	aluminium matt gloss
AlMgSi	Aluminium magnesium silicon (extruded section)	aen	aluminium natural anodized
Cu	Copper	ap	aluminium plate finish
EPDM	Synthetic rubber	am	anthracite metallic
Glass	Glass	bl	blue
Glass matt	Matt glass	bl/cr	blue chrome
Glass (ESG)	Tempered single-pane safety glass	ce	cream
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	cr	chrome
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	eg	brushed stainless steel
H05S-U	Harmonised cable: measurement voltage 300 V to 500 V; silicone rubber isolation material, heat-resistant to +180° C; single-wire conductor, round	ge	yellow
H05V2-U	Harmonised cable: measurement voltage 300 V to 500 V; Isolation material PVC, heat-resistant to +90° C; single-wire conductor, round	ge/cr	yellow chrome
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	ga	grey
H07V2-U	Harmonised cable: measurement voltage 450 V to 750 V; isolation material PVC, heat-resistant to +90° C; single-wire conductor, round	gr	green
Inox	Stainless steel	hg	light grey
Inox V2A	Stainless steel (alloy type 1.4301 or X5CrNi18-10)	hgl	high gloss
Inox V4A	Stainless steel (alloy type 1.4401 or X5CrNiMo17-12-2)	kg	pebble grey, RAL 7032
Mix	Diverse materials	kgm	pebble grey metallic, RAL 7032
PA	Polyamide	kl	clear
PC	Polycarbonate	me	metallike
PMMA	Polymethylmethacrylate (acrylic glass)	op	opal white
Polymer	plastic (not defined specifically)	og	orange
Polymer clear	Plastic (crystal clear)	ro	red
Reinforced polymer	Plastic (with admixture of reinforcing materials)	sw	black, RAL 9005
PS	Polystyrene	si	silver
PVC	Polyvinyl chloride	sg	silver-grey, RAL 9006
St	Steel	tz	translucent
StZn	Steel with zinc coating	tp	transparent
		vw	traffic white, RAL 9016
		ws	white
		wa	white-aluminium, RAL 9006



hokal



►177

- 178 HLEG LED
- 178 HLEX LED
- 180 HLEG T5
- 180 HLED T5
- 180 HLEX T5

Recessed luminaires

teno



►143

- 149 TNEMP LED

planara



►151

- 152 PNEMP LED
- 152 PNEG LED
- 152 PNEO LED

panella



►155

- 158 PEMP LED
- 158 PEO LED

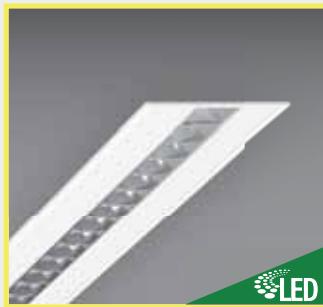
protection



►167

- 167 PREMP LED
- 167 PREG LED
- 170 PREMP LED
- 172 PREG LED
- 174 PREO LED

RE



►183

- 184 RSEX LED

UE



►187

- 188 UEX LED
- 189 UED T5
- 189 UEM T5
- 189 UEX T5



for ceilings with panels

hokal

► 178



RE

► 184



doma

► 216



for ceilings with a concealed symmetrical construction

teno

► 149



protection

► 172



RE

► 184



UE

► 188



Recessed luminaires



for ceilings with visible T-rails

teno ► 149	planara ► 152	panella ► 158	protection ► 170	RE ► 184

UE ► 188



for cut-out ceilings

teno ► 149	panella ► 158	protection ► 172	hokal ► 178	RE ► 184
UE ► 188	doma ► 216	relo ► 220	loda ► 224	rotara ► 232
rotara ► 323	scota ► 228	THLE ► 476		



teno



teno – soft comforting light

- Universal recessed luminaire in different housing designs
- Multi-layered lighting technology with special microprisms
- All variants glare controlled suitable for VDU workstations
- High quality sheet steel housing with longitudinal aluminium profiles
- Master luminaires with sensors in different housing designs
- Tunable white technology for Human Centric Lighting HCL



Type overview

- ▶ TNE.MP Diffuser, micro-prismatic direct distribution
- ▶ TNE./600 for 600 x 600 mm ceiling systems
- ▶ TNE./625 for 625 x 625 mm ceiling systems
- ▶ TNE./300-1200 for 300 mm ceiling systems
- ▶ TNE./312-1250 for 312.5 mm ceiling systems
- ▶ TNE./600-1200 for 300 mm ceiling systems
- ▶ TNE./625-1250 for 312.5 mm ceiling systems



teno

Soft light



118
lm/W

19
UGR

≥80
CRI

3000

**L80
B10**
50.000h

**+
ET NL-B3**

- Universal recessed luminaire with different housing shapes
- Multi-layered lighting technology with special microprisms
- All versions glare controlled suitable for VDU workstation
- High-quality housing made of sheet steel with longitudinal aluminum profiles
- Master luminaire versions in M5S5 and now in LC01, wireless parametrisation
- B3 emergency lighting variants

Pleasantly soft light

Soft, low-shadow light is more diffuse and uniform. The reduced contrasts is pleasant and creates a calm atmosphere of light. The teno achieves this with high-quality lighting technology, using diffusers with excellent optical characteristics. Together with the microprisms applied, glare control suitable for monitors is achieved. With its high luminous luxes, this is perfect for soft, diffuse light with a high level of visual comfort.

Suitable for ceiling systems:



ceilings with visible T-rails



concealed symmetrical rail construction



cut-out ceilings



Modern lighting management made simple



teno DALI

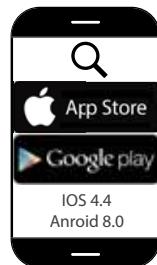
teno LC01

Realise superb lighting solutions and complex applications with innovative system components:
The versatile opportunities offered by teno with DALI control via Osram DALIeco BT

- 1 DALI channel controls up to 32 control gears Broadcast DT6 and DT8
- Daylight linking
- Presence function
- Different operating modes such as individual office, corridor or stairwell can be set and modified
- On/off/dim via external push button
- Up to 6 DALI switch couplers and DALI sensors can be connected
- PIR and HF sensors can be integrated via couplers
- Easy operation and simple configuration via Bluetooth using free Apps



Osram DALIeco BT



Please refer to the current data for LED luminaires under www.regiolux.de

*For information about the manufacturer's warranty for LED luminaires, see http://www.regiolux.de/fi/leadmin/REGIOLUX/Service/Garantie/Warranty_LED_en.pdf



LED A+ A+ 8000 lm 19 F F CE IP 20

teno-TNEMP/625 LED

+ IoT

Mounting:

- Ceiling recessed

Housing:

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

Lighting technology TNEMP:

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

Lamp:

- LED 50000h L80/B10
- $\text{CRI} \geq 80 / 4000\text{K}$
- $\text{CRI} \geq 90 / 2700\text{K}-6500\text{K}$ continuously adjustable DALI DT8

Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

Miscellaneous:

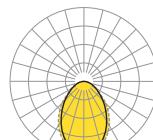
- Luminaires with integrated LC components, sensors, control and tunable white technology for Human Centric Lighting available

Accessories:

- TNE-BM mounting mechanism 4 pcs. 600/625 for concealed symmetrical rail constructions or cut-out ceilingsto be ordered separately.

Mounting instructions:

- The two satinised panes can be moved to fasten the luminaire in place



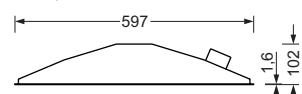
TNEMP/625 LED
4000 lm 840

n_{L80} 100%
lm/W 116
direct/indirect 100/0 %
UGR lat./long. 18,6/18,9
VDU $65^\circ < 3000 \text{ cd/m}^2$

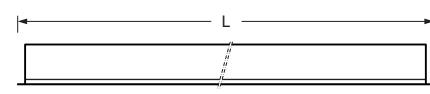
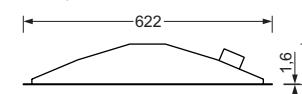
Dimensions

Type	Versions	LxBxH/DxH	T	MLxMB	Et	MLxMB	Et	DA _A xDA _B	Et
TNE./600	LED	597 x 597 x 102	100	600 x 600	250	600 x 600	120	585 x 591	120
TNE./625	LED	622 x 622 x 102	100	625 x 625	250	625 x 625	120	585 x 591	120

TNE./600



TNE./625





Products

Type	Lamps	lm/W	P _{Sys} [W]	Colour	Ballast	LxRxH/DxH	Art. no.	kg
<i>Diffuser, micro-prismatic direct distribution</i>								
teno-TNEMP/600	LED 4000 840	116	35	vw	ED	597 x 597 x 102	5080 1114 170	5,10
					DALI ¹⁾	597 x 597 x 102	5080 1116 670	5,10
					ED EM-B3 ⁴⁾	597 x 597 x 102	5080 1117 770	5,30
					DALI M5S5 ³⁾	597 x 597 x 102	5080 1118 670	5,30
					DALI LC01 ³⁾	597 x 597 x 102	5080 1118 970	5,30
	LED 4000 927-965 85	46	vw		DALI DT8 ¹⁾²⁾	597 x 597 x 102	5080 1416 970	6,05
teno-TNEMP/625	LED 4000 840	116	35	vw	ED	622 x 622 x 102	5080 2114 170	5,30
					DALI ¹⁾	622 x 622 x 102	5080 2116 670	5,30
					ED EM-B3 ⁴⁾	622 x 622 x 102	5080 2117 770	5,50
					DALI M5S5 ³⁾	622 x 622 x 102	5080 2118 670	5,50
					DALI LC01 ³⁾	622 x 622 x 102	5080 2118 970	5,50
	LED 4000 927-965 85	46	vw		DALI DT8 ¹⁾²⁾	622 x 622 x 102	5080 2416 970	6,25

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

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

³⁾ : Luminaires with sensors

⁴⁾ : Luminaires with emergency light unit single battery 3h

Accessories

Type	Colour	Material	Details	Art. no.	kg
<i>Electrical technology</i>					
Light Control	LC-OM MASTER REMOTE PC KIT		Remote control for commissioning the DALIeco (M5S5) light control system	8450 1041 200	1 0,11
	LC-OM USER REMOTE		Remote control for the operation of the DALIeco (M5S5) light control system	8450 1042 100	1 0,11
<i>Mounting</i>					
Fastening bracket	TNE-BM	me	St	for teno 600/625 with cut-out ceilings and concealed symmetrical rail constructions	5080 9004 100 4 0,16



teno LED

Mounting:

- Ceiling recessed

Housing:

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

Lighting technology TNEMP:

- Micro-prismatic diffuser; PMMA plastic
- Lighting characteristic direct distribution
- Suitable for VDU workstations, $65^\circ < 3000 \text{ cd/m}^2$, UGR ≤ 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:

- Luminaire in tunable white technology for Human Centric Lighting available

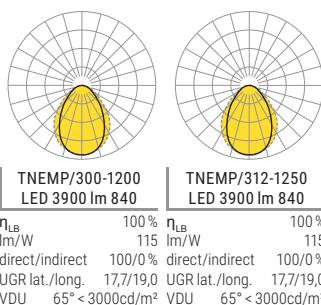
Accessories:

- TNE-BM mounting mechanism 4 pcs. 300/312 for concealed symmetrical rail constructions or cut-out ceilingsto be ordered separately.

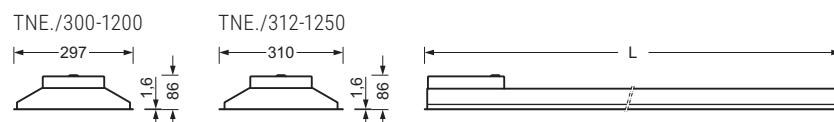
Mounting instructions:

- The two satinised panes can be moved to fasten the luminaire in place

teno-TNEMP/300-1200 LED
teno-TNEMP/312-1250 LED

**Dimensions**

Type	Versions	LxBxH/DxH	T	MLxMB	Et	MLxMB	Et	DA _x xD _B	Et
TNE./300-1200	LED	1197 x 297 x 86	84	1200 x 300	250	1200 x 300	150	285 x 1188	100
TNE./312-1250	LED	1247 x 310 x 86	84	1250 x 312,5	250	1250 x 312,5	150	285 x 1188	100

**Products**

Type	Lamps	lm/W	P _{Sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Diffuser, micro-prismatic direct distribution</i>								
teno-TNEMP/300-1200	LED 3900 840	115	34	vw	ED DALI ¹⁾	1197 x 297 x 86	5080 3114 170	5,50
					ED EM-B3 ³⁾	1197 x 297 x 86	5080 3116 670	5,50
	LED 3900 927-965	81	48	vw	DALI DT8 ¹⁾⁽²⁾	1197 x 297 x 86	5080 3416 970	6,64
teno-TNEMP/312-1250	LED 3900 840	115	34	vw	ED DALI ¹⁾	1247 x 310 x 86	5080 4114 170	5,80
					ED EM-B3 ³⁾	1247 x 310 x 86	5080 4116 670	5,80
	LED 3900 927-965	81	48	vw	DALI DT8 ¹⁾⁽²⁾	1247 x 310 x 86	5080 4117 770	6,20
								6,80

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

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

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

Accessories

Type	Colour	Material	Details	Art. no.	kg	
<i>Mounting</i>						
Fastening bracket	TNE-BM	me	St	for teno 300/312 with cut-out ceilings and concealed symmetrical rail constructions	5080 9004 200	4 0,16

LED A+ 3000 lm 9 V ~ CE IP 20

Mounting:

- Ceiling recessed

Housing:

- Sheet steel

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

Lighting technology TNEMP:

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

Lamp:

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

Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

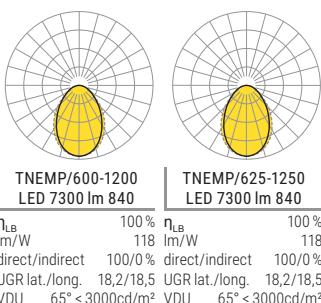
Accessories:

- TNE-BM mounting mechanism 6 pcs. 1200/1250 for concealed symmetrical rail constructions or cut-out ceilingsto be ordered separately.

Mounting instructions:

- The two satinised panes can be moved to fasten the luminaire in place

teno-TNEMP/600-1200 LED
teno-TNEMP/625-1250 LED



Dimensions

Type	Versions	LxBxH/DxH	T	MLxMB	Et	MLxMB	Et	DA _L xDA _B	Et
TNE./600-1200	LED	1197 x 597 x 102	100	1200 x 600	250	1200 x 600	150	585 x 1191	120
TNE./625-1250	LED	1247 x 622 x 102	100	1250 x 625	250	1250 x 625	150	585 x 1191	120
TNE./600-1200		TNE./625-1250							



planara



planara – pure light

- Frameless diffuser recessed LED luminaire
- Optionally with microprism, frosted or white opal diffuser
- Also available in tunable white technology for Human Centric Lighting HCL
- Extremely easy to install and maintain thanks to IP54 protection class
- With VDU-compatible microprism diffuser, glare control in accordance with DIN-EN 12464-1
- The luminaires are fundamentally suitable for use in the food industry



Type overview

- ▶ PNEMP Diffuser, micro-prismatic direct distribution
- ▶ PNEG Diffuser, satinized direct distribution
- ▶ PNEO Diffuser, opal direct distribution
- ▶ PNE./625 for 625 x 625 mm ceiling systems
- ▶ PNE./600 for 600 x 600 mm ceiling systems

planara LED

LED A++ A+ 3000K 19 F W CE IP 54

Mounting:

- Ceiling recessed

Housing:

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

Lighting technology PNEMP:

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

Lighting technology PNEG:

- Diffuser, satined; PMMA plastic
- Lighting characteristic direct distribution
- Suitable for VDU workstations, $65^\circ < 3000 \text{ cd/m}^2$ (DALI DT8)

Lighting technology PNEO:

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

Lamp:

- LED 50000h L80/B10
- CRI ≥ 80 / 4000K
- CRI ≥ 80 / 3000K-6000K continuously adjustable DALI DT8

Switching:

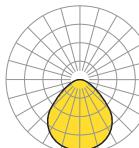
- 1 Controller
- Electronic driver
- 230V 50Hz

Miscellaneous:

- Luminaire in tunable white technology for Human Centric Lighting

Accessories:

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



PNEMP/625 IP 54 LED

4400 lm 840

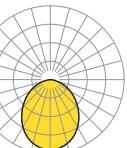
η_{LB} 100 %

151 lm/W

direct/indirect 100/0 %

UGR lat./long. 18,3/18,0

VDU $65^\circ < 3000 \text{ cd/m}^2$



PNEG/625 IP 54 LED

4500 lm 830-860

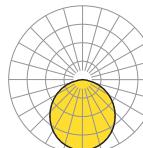
η_{LB} 100 %

116 lm/W

direct/indirect 100/0 %

UGR lat./long. 20,1/20,1

VDU $65^\circ < 3000 \text{ cd/m}^2$



PNEO/600 IP 54 LED

4000 lm 840

η_{LB} 100 %

139 lm/W

direct/indirect 100/0 %

UGR lat./long. 20,8/20,8

VDU $65^\circ < 3000 \text{ cd/m}^2$



planara PNEMP microprism diffuser



planara PNEG frosted pane



planara PNEO opal diffuser

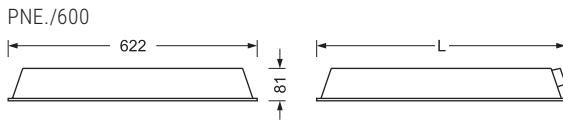
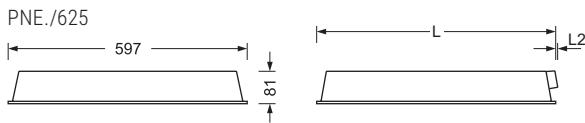
planara-PNEMP LED



Dimensions

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

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





Products

Type	Lamps	lm/W	P _{Sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Diffuser, micro-prismatic direct distribution</i>								
planara-PNEMP/600 IP 54	LED 4400 840	151	29	vw	ED	597 x 597 x 81	7226 5014 150	4,30
					DALI ¹⁾	597 x 597 x 81	7226 5016 650	4,30
planara-PNEMP/625 IP 54	LED 4400 840	151	29	vw	ED	622 x 622 x 81	7220 5014 150	4,50
					DALI ¹⁾	622 x 622 x 81	7220 5016 650	4,50
	LED 4600 830-860 119		39	vw	DALI DT8 ¹⁾²⁾	622 x 622 x 81	7220 5066 950	4,50
<i>Diffuser, satinized direct distribution</i>								
planara-PNEG/600 IP 54	LED 4200 840	146	29	vw	ED	597 x 597 x 81	7226 5014 110	4,30
					DALI ¹⁾	597 x 597 x 81	7226 5016 610	4,30
planara-PNEG/625 IP 54	LED 4200 840	146	29	vw	ED	622 x 622 x 81	7220 5014 110	4,50
					DALI ¹⁾	622 x 622 x 81	7220 5016 610	4,50
	LED 4500 830-860 116		39	vw	DALI DT8 ¹⁾²⁾	622 x 622 x 81	7220 5066 910	4,50
<i>Diffuser, opal direct distribution</i>								
planara-PNEO/600 IP 54	LED 4000 840	139	29	vw	ED	597 x 597 x 81	7226 5014 180	4,30
					DALI ¹⁾	597 x 597 x 81	7226 5016 680	4,30
planara-PNEO/625 IP 54	LED 4000 840	139	29	vw	ED	622 x 622 x 81	7220 5014 180	4,50
					DALI ¹⁾	622 x 622 x 81	7220 5016 680	4,50
	LED 4200 830-860 109		39	vw	DALI DT8 ¹⁾²⁾	622 x 622 x 81	7220 5066 980	4,50

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

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



panella



panella – the panel luminaire
with a compelling specification

- Flat panel recessed LED luminaire
- Optionally with microprism or white opal diffuser
- Impressive quality in efficiency, service life and LED driver
- Versions suitable for recessed, surface-mounted and suspended installation
- With VDU-compatible microprism diffuser, glare control in accordance with DIN-EN 12464-1



Type overview

- ▶ PEMP Diffuser, micro-prismatic direct distribution
- ▶ PEO Diffuser, opal direct distribution
- ▶ PE./600 IP.. for 600 x 600 mm ceiling systems
- ▶ PE./625 IP.. for 625 x 625 mm ceiling systems
- ▶ PE./300-1200 IP.. for 300 mm ceiling systems
- ▶ PE./312-1250 IP.. for 312,5 mm ceiling systems

panella

This luminaire moves boundaries



50.000h
L70/B10

PEMP/625
PEMP/1250

PEO/625
PEO/1250



Also as suspended
luminaire available

Lighting technological characteristics

- very good efficiency with up to 133 lm/W
- diffuser – micro-prismatic suited for VDU workstations
- UV-resistant – lightguide + diffusers
- DALI dimmable
- equal light distribution through lateral light coupling
- Flicker-free < 5 %

PEO/600
PEO/1200

PEMP/600
PEMP/1200



Technological characteristics

- extremely flat height: 13 mm
- insertion, recessed, surface or suspended mounting
- easy and quickly mounting
- E-installation with easy-plug system

panella LED



LED A+ □ 3000 lm IP 40

Mounting:

- Ceiling recessed
- Ceiling surface

Housing:

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

Lighting technology PEMP:

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

Lighting technology PEO:

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

Lamp:

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

Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

Miscellaneous:

- External LED driver wired ready for operation via 0.4m flexible connection cable using Easy-Plug system to the luminaire

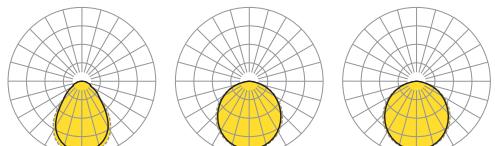
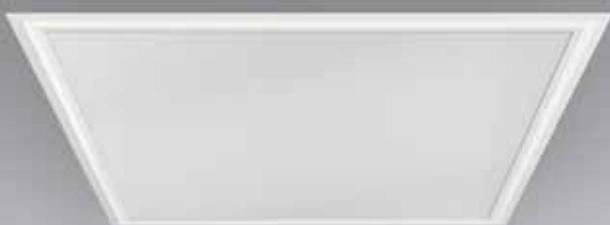
Accessories:

- Accessories for installation in cut-out ceilings or for surface mounting to be ordered separately.

Mounting instructions:

- IP20 for surface mounting
- IP40 for insertion and recessed mounting

panella-PEMP/625 LED

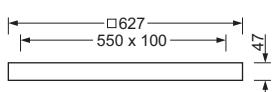


PEMP/625 LED 3800 lm 840	PEO/625 LED 3700 lm 830	PEO/625 LED 3900 lm 840
η_{LB} lm/W	100 %	η_{LB} lm/W
130	130	125
direct/indirect	100/0 %	direct/indirect
100/0 %	100/0 %	100/0 %
UGR lat./long.	18,4/18,5	UGR lat./long.
18,4/18,5	20,7/21,0	21,0/21,3
VDU	65° < 3000cd/m ²	

Dimensions

Type	Versions	LxBxH/DxH	T	KL	KB	KH	MLxMB	Et	DA _L xDA _B	Et
PE./625 IP.. LED		622 x 622 x 13	13	105	69	33	625 x 625	100	612 x 612	100

Recessed mounting

Surface mounting AR

Products

Type	Lamps	lm/W	P _{Sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Diffuser, micro-prismatic direct distribution</i>								
panella-PEMP/625	LED 3600 830	122	30	vw	ED	622 x 622 x 13	6015 3034 150	3,99
					DALI ¹⁾	622 x 622 x 13	6015 3036 650	3,99
	LED 3800 840	130	30	vw	ED	622 x 622 x 13	6015 4034 150	3,99
					DALI ¹⁾	622 x 622 x 13	6015 4036 650	3,99
<i>Diffuser, opal direct distribution</i>								
panella-PEO/625	LED 3700 830	125	30	vw	ED	622 x 622 x 13	6015 3034 110	3,99
					DALI ¹⁾	622 x 622 x 13	6015 3036 610	3,99
	LED 3900 840	133	30	vw	ED	622 x 622 x 13	6015 4034 110	3,99
					DALI ¹⁾	622 x 622 x 13	6015 4036 610	3,99

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

Mounting accessories /625



PE-AR Surface frame

PE-AR (mounted)



Accessories

Type	Colour	Material	Details	Art. no.		
<i>Mounting</i>						
Mounting-ceiling	PE-AR 600/625	vw	St	Surface-mounting frame for panella 600 and 625	6015 0005 100	1 2,50
Fastening bracket	PE-ES 625	me	St	Installation spring set for panella 625 with cut-out ceilings	6015 0003 100	4 0,08



panella LED



►524

►28

LED A+ □ 3000 lm F CE IP 40

panella-PEO/600 LED



Mounting:

- Ceiling recessed
- Ceiling surface
- Suspended

Housing:

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

Lighting technology PEMP:

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

Lighting technology PEO:

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

Lamp:

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

Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

Miscellaneous:

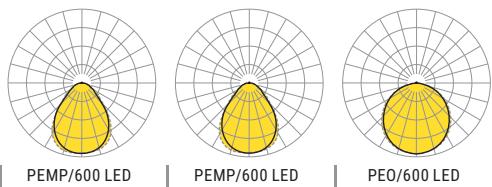
- External LED driver wired ready for operation via 0.4m flexible connection cable using easy-plug system to the luminaire

Accessories:

- Accessories for suspended or surface mounting to be ordered separately.

Mounting instructions:

- IP40 for insertion mounting
- IP20 for surface and suspended mounting



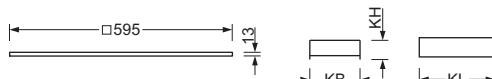
PEMP/600 LED 3900 lm 840 PEMP/600 LED 3500 lm 830 PEO/600 LED 3800 lm 840

η_{LB} 100% η_{LB} 100% η_{LB} 100%
lm/W 119 lm/W 108 lm/W 116
direct/indirect 98/2% direct/indirect 98/2% direct/indirect 98/2%
UGR lat./long. 18,1/18,4 UGR lat./long. 18,0/18,2 UGR lat./long. 20,8/21,3
VDU $65^\circ < 3000 \text{ cd/m}^2$ VDU $65^\circ < 3000 \text{ cd/m}^2$

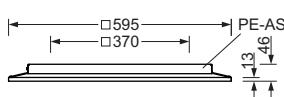
Dimensions

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

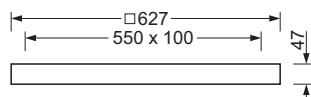
Recessed mounting



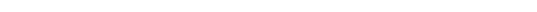
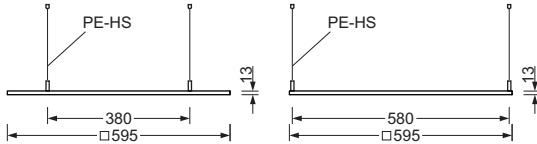
Surface mounting AS



Surface mounting AR



Suspended mounting



Products

Type	Lamps	lm/W	P _{Sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Diffuser, micro-prismatic direct distribution</i>								
panella-PEMP/600	LED 3600 830	108	32	vw	ED	595 x 595 x 13	6016 3034 150	3,79
					DALI ¹⁾	595 x 595 x 13	6016 3036 650	3,79
	LED 3700 840	119	32	vw	ED	595 x 595 x 13	6016 4034 150	3,79
					DALI ¹⁾	595 x 595 x 13	6016 4036 650	3,79
<i>Diffuser, opal direct distribution</i>								
panella-PEO/600	LED 3600 830	110	32	vw	ED	595 x 595 x 13	6016 3034 110	3,79
					DALI ¹⁾	595 x 595 x 13	6016 3036 610	3,79
	LED 3800 840	116	32	vw	ED	595 x 595 x 13	6016 4034 110	3,79
					DALI ¹⁾	595 x 595 x 13	6016 4036 610	3,79

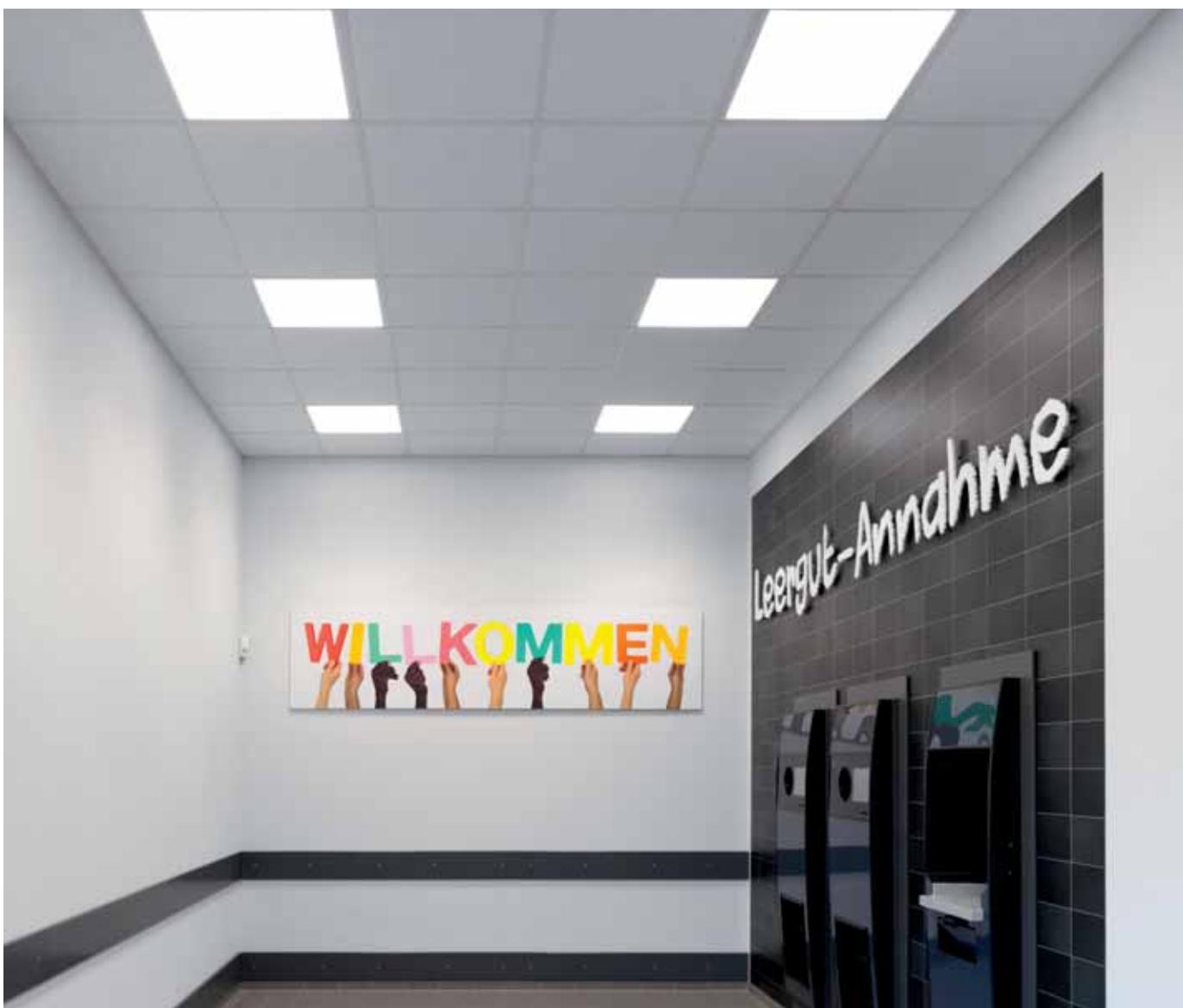
¹⁾ IoT: Luminaires suitable for IoT (Internet of Things)

Mounting accessories /600



Accessories

	Type	Colour	Material	Details	Art. no.		
<i>Mounting</i>							
Single wire suspension	PE-HS	me	Mix	for panella 600	6015 0001 100	4	0,17
Mounting-ceiling	PE-AR 600/625	vw	St	Surface-mounting frame for panella 600 and 625	6015 0005 100	1	2,50
	PE-AS 600	vw	St	Surface mounting-set for panella 600	6015 0002 100	1	0,90



panella LED



LED A+ □ 3000 K 19 V CE IP 40

Mounting:

- Ceiling recessed

Housing:

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

Lighting technology PEMP:

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

Lighting technology PEO:

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

Lamp:

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

Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

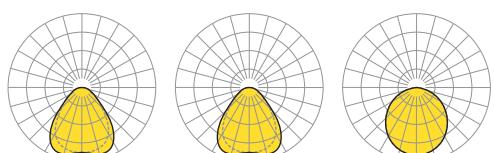
Miscellaneous:

- External LED driver operatively wired by 0.4 m long flexible connection cable with easy-plug system to the luminaire is included in the scope of delivery
- Also suspended luminaires available

Accessories:

- Accessories for installation in cut-out ceilings to be ordered separately.

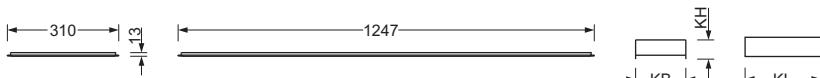
panella-PEMP/1250 LED



PEMP/312-1250 LED 3500 lm 830	100 % η_{LB} lm/W	104 η_{LB} lm/W	PEMP/312-1250 LED 3800 lm 840	100 % η_{LB} lm/W	114 η_{LB} lm/W	PEO/312-1250 LED 4000 lm 840	100 % η_{LB} lm/W	119 η_{LB} lm/W
direct/indirect 100/0 %	100/0 %	100/0 %	direct/indirect 100/0 %	100/0 %	100/0 %	direct/indirect 100/0 %	100/0 %	100/0 %
UGR lat./long. 18,6/18,3	UGR lat./long. 18,9/18,6	UGR lat./long. 18,9/18,6	UGR lat./long. 21,4/21,3	UGR lat./long. 21,4/21,3	UGR lat./long. 21,4/21,3	UGR lat./long. 21,4/21,3	UGR lat./long. 21,4/21,3	UGR lat./long. 21,4/21,3
VDU $65^\circ < 3000 \text{ cd/m}^2$	VDU $65^\circ < 3000 \text{ cd/m}^2$	VDU $65^\circ < 3000 \text{ cd/m}^2$						

Dimensions

Type	Versions	LxBxH/DxH	T	KL	KB	KH	MLxMB	Et	DA _{lx} xD _a	Et	
PE./312-1250 IP.. LED		1247 x 310 x 13	13	13	105	69	33	1250 x 312	100	1235 x 298	150



Products

Type	Lamps	lm/W	P _{Sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Diffuser, micro-prismatic direct distribution</i>								
panella-PEMP/312-1250	LED 3500 830	104	34	vw	ED DALI ¹⁾	1247 x 310 x 13	6013 3034 150	4,61
	LED 3800 840	114	34	vw	ED DALI ¹⁾	1247 x 310 x 13	6013 3036 650	4,61
						1247 x 310 x 13	6013 4034 150	4,61
						1247 x 310 x 13	6013 4036 650	4,61
<i>Diffuser, opal direct distribution</i>								
panella-PEO/312-1250	LED 3900 830	113	34	vw	ED DALI ¹⁾	1247 x 310 x 13	6013 3034 110	4,61
	LED 4000 840	119	34	vw	ED DALI ¹⁾	1247 x 310 x 13	6013 3036 610	4,61
						1247 x 310 x 13	6013 4034 110	4,61
						1247 x 310 x 13	6013 4036 610	4,61

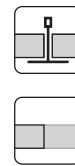
¹⁾ IoT: Luminaires suitable for IoT (Internet of Things)

Mounting accessories /312

REGOLUX
163

Accessories

	Type	Colour	Material	Details	Art. no.	
<i>Mounting</i>						
Fastening bracket	PE-ES 312	me	St	Installation spring set for panella 312 with cut-out ceilings	6015 0006 100	6 0,08



panella LED



LED A+ □ 3000 lm F ▲ CE IP 40

Mounting:

- Ceiling recessed
- Ceiling surface

Housing:

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

Lighting technology PEMP:

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

Lighting technology PEO:

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

Lamp:

- LED 5000h L70/B10
- CRI ≥ 80 / 3000K, 4000K

Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

Miscellaneous:

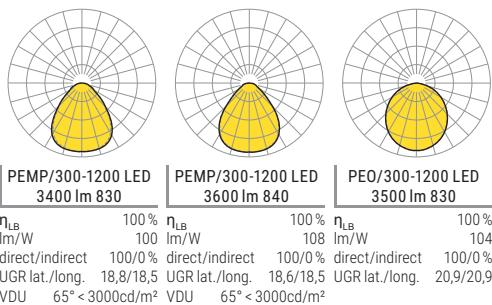
- External LED driver operatively wired by 0.4 m long flexible connection cable with easy-plug system to the luminaire is included in the scope of delivery

- Also suspended luminaires available

Accessories:

- Accessories for surface mounting to be ordered separately.

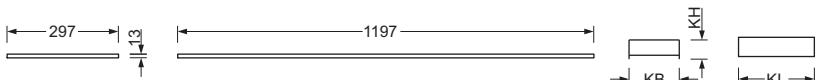
panella-PEO/1200 LED



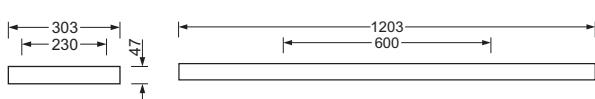
Dimensions

Type	Versions	LxBxH/DxH	T	KL	KB	KH	MLxMB	Et
PE/300-1200 IP..	LED	1197 x 297 x 13	13	105	69	33	1200 x 300	100

Recessed mounting



Surface mounting AR



Products

Type	Lamps	lm/W	P _{Sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Diffuser, micro-prismatic direct distribution</i>								
panella-PEMP/300-1200	LED 3400 830	100	34	vw	ED	1197 x 297 x 13	6012 3034 150	4,15
					DALI ¹⁾	1197 x 297 x 13	6012 3036 650	4,15
	LED 3600 840	108	34	vw	ED	1197 x 297 x 13	6012 4034 150	4,15
					DALI ¹⁾	1197 x 297 x 13	6012 4036 650	4,15
<i>Diffuser, opal direct distribution</i>								
panella-PEO/300-1200	LED 3500 830	104	34	vw	ED	1197 x 297 x 13	6012 3034 110	4,15
					DALI ¹⁾	1197 x 297 x 13	6012 3036 610	4,15
	LED 3800 840	114	34	vw	ED	1197 x 297 x 13	6012 4034 110	4,15
					DALI ¹⁾	1197 x 297 x 13	6012 4036 610	4,15

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

Mounting accessories /300

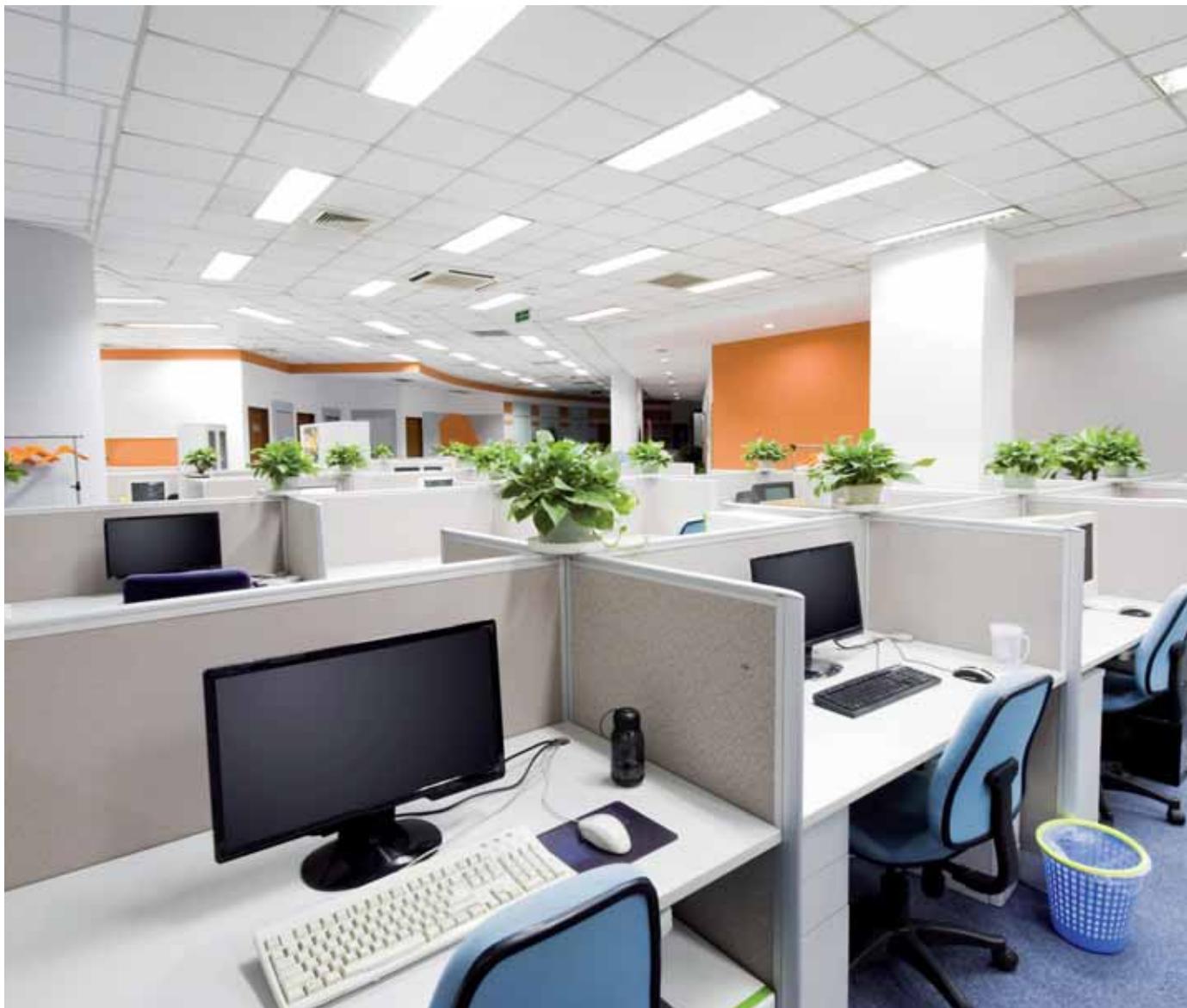
REGOLUX
165

PE-AR Surface frame



Accessories

Type	Colour	Material	Details	Art. no.	
<i>Mounting</i>					
Mounting-ceiling	vw	St	Surface frame for panella 300	6015 0007 100	1 3,00





protection



protection – elegant field luminaires for system ceilings

- IP54 recessed luminaire with various lighting technologies and housing
- Recessed luminaire for clean-rooms, manufactured according to IPA requirements and GMP guidelines
- Tested for metabolic potential to ISO 846



Type overview

- PREMP Diffuser, micro-prismatic direct distribution
- PREG Diffuser, satinend direct distribution
- PREO Diffuser, opal direct distribution
- PRE./625 IP.. for 625 x 625 mm ceiling systems
- PRE./600 IP.. for 600 x 600 mm ceiling systems
- PRE./312-1250 IP.. for 312.5 mm ceiling systems
- PRE./300-1200 IP.. for 300 mm ceiling systems

protection IPA LED



LED A+ 3000 lm 19 V [clean] CE IP 54

Mounting:

- Ceiling recessed

Housing:

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

Lighting technology PREMP:

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

Lighting technology PREG:

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

Lamp:

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

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

Accessories:

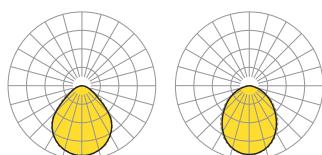
- An extractor is included to remove the sealing frame
- UBM universal fastening mechanism for concealed symmetrical rail constructions or cut-out ceilings included in delivery.

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

[clean] IoT



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



PREMP/625 IP54 LED 4300 lm 840	PREG/300-1200 IP54 LED 4700 lm 840
η_{LB} lm/W	100 %
121	143
direct/indirect	100/0 %
100/0 %	direct/indirect
UGR lat./long. 18,5/18,9	UGR lat./long. 20,9/21,4
VDU $65^\circ < 3000 \text{ cd/m}^2$	

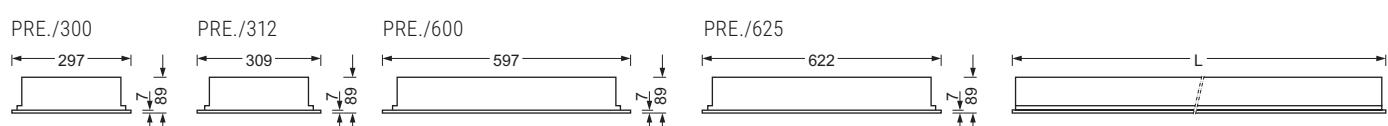


The diffuser frame is natural anodised. Different ceiling modules are compensated for in the width of the housing

Dimensions

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

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





Products

Type	Lamps	lm/W	P _{Sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Diffuser, micro-prismatic direct distribution</i>								
protection IPA-PREMP/300-1200 IP54	LED 4700 840	142	33	vw	ED	1197 x 297 x 89	7253 2034 153	6,65
					DALI ¹⁾	1197 x 297 x 89	7253 2036 653	6,65
protection IPA-PREMP/312-1250 IP54	LED 4700 840	142	33	vw	ED	1247 x 309 x 89	7251 2034 153	6,71
					DALI ¹⁾	1247 x 309 x 89	7251 2036 653	6,71
protection IPA-PREMP/600 IP54	LED 4200 840	121	36	vw	ED ²⁾	597 x 597 x 89	7256 0014 153	5,30
					DALI ¹⁾²⁾	597 x 597 x 89	7256 0016 653	5,30
protection IPA-PREMP/625 IP54	LED 4200 840	121	36	vw	ED ²⁾³⁾	622 x 622 x 89	7250 0014 153	5,30
					DALI ¹⁾²⁾	622 x 622 x 89	7250 0016 653	5,30
<i>Diffuser, satinized direct distribution</i>								
protection IPA-PREG/300-1200 IP54	LED 4700 840	143	33	vw	ED	1197 x 297 x 89	7253 2034 113	6,65
					DALI ¹⁾	1197 x 297 x 89	7253 2036 613	6,65
protection IPA-PREG/312-1250 IP54	LED 4700 840	143	33	vw	ED	1247 x 309 x 89	7251 2034 113	6,71
					DALI ¹⁾	1247 x 309 x 89	7251 2036 613	6,71
protection IPA-PREG/600 IP54	LED 4400 840	123	36	vw	ED ²⁾	597 x 597 x 89	7256 0014 113	5,30
					DALI ¹⁾²⁾	597 x 597 x 89	7256 0016 613	5,30
protection IPA-PREG/625 IP54	LED 4400 840	123	36	vw	ED ²⁾	622 x 622 x 89	7250 0014 113	5,30
					DALI ¹⁾²⁾	622 x 622 x 89	7250 0016 613	5,30

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

²⁾ Additional certification:

³⁾ : Luminaire has been tested by Fraunhofer Institut IPA



protection LED



►76

LED A++ A+ 3000 9 IP 54

Mounting:

- Ceiling recessed

Housing:

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

Lighting technology PREMP:

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

Lamp:

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

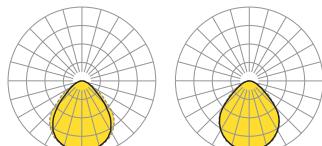
Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

Accessories:

- An extractor is included to remove the sealing frame
- UBM universal mounting brackets for concealed symmetrical rail constructions and cut-out ceilings and SCT safety clips for ceilings with visible T-rails to be ordered separately.

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

PREMP/312-1250 IP54
LED 4700 lm 840PREMP/625 IP54
LED 4300 lm 840

η_{LB} lm/W	100 %	η_{LB} lm/W	100 %
direct/indirect	142	direct/indirect	121
UGR lat./long.	100/0 %	UGR lat./long.	100/0 %
VDU	18,3/19,4	VDU	18,5/18,9
	$65^\circ < 3000 \text{ cd/m}^2$		$65^\circ < 3000 \text{ cd/m}^2$



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

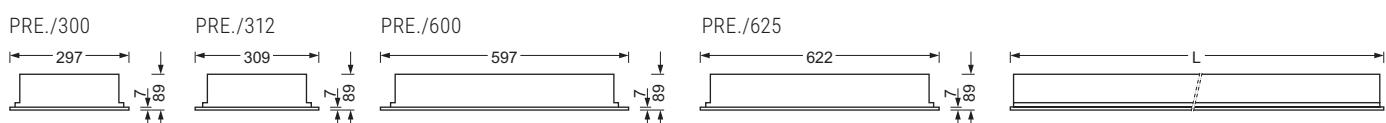


The diffuser frame is natural anodised. Different ceiling modules are compensated for in the width of the housing

Dimensions

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

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





Products

Type	Lamps	lm/W	P _{Sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Diffuser, micro-prismatic direct distribution</i>								
protection-PREM/300-1200 IP54	LED 4700 840	142	33	vw	ED	1197 x 297 x 89	7253 2034 150	6,65
					DALI ¹⁾	1197 x 297 x 89	7253 2036 650	6,65
protection-PREM/312-1250 IP54								
	LED 4700 840	142	33	vw	ED	1247 x 309 x 89	7251 2034 150	6,71
					DALI ¹⁾	1247 x 309 x 89	7251 2036 650	6,71
protection-PREM/600 IP54								
	LED 4300 840	121	36	vw	ED ²⁾	597 x 597 x 89	7256 0014 150	5,30
					DALI ¹⁾²⁾	597 x 597 x 89	7256 0016 650	5,30
protection-PREM/625 IP54								
	LED 4300 840	121	36	vw	ED ²⁾	622 x 622 x 89	7250 0014 150	5,30
					DALI ¹⁾²⁾	622 x 622 x 89	7250 0016 650	5,30

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

²⁾ Additional certification:

Accessories

Type	Colour	Material	Details	Art. no.	kg
<i>Mounting</i>					
Fastening bracket	UBM	me	St	for PRE. LED	7995 0404 100
Securing	SCT CLIPS	me	St	for UE, RSEX, PNE..., PRE..., PEM/625..., PEO/625...	7995 0000 100

protection LED



►76

LED A+ A+ ① F F W CE IP 54

Mounting:

- Ceiling recessed

Housing:

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

Lighting technology PREG:

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

Lamp:

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

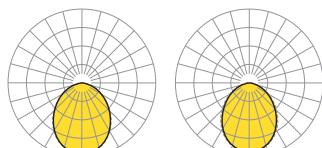
Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

Accessories:

- An extractor is included to remove the sealing frame
- UBM universal mounting brackets for concealed symmetrical rail constructions or recessed ceilings and SCT CLIPS locking clips for ceilings with visible T-rails to be ordered separately.

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

PREG/625 IP54
LED 4400 lm 840PREG/300-1200 IP54
LED 4700 lm 840

η_{LB} lm/W	100%	η_{LB} lm/W	100%
direct/indirect	100/0%	direct/indirect	100/0%
UGR lat./long.	20,8/20,9	UGR lat./long.	20,9/21,4



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

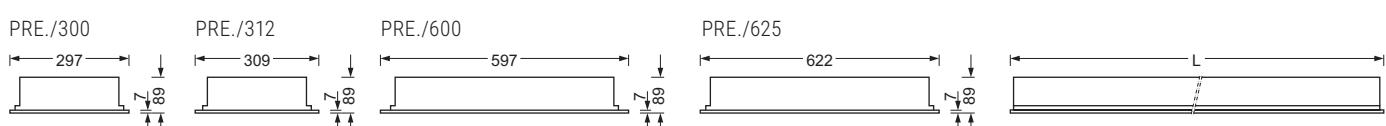


The diffuser frame is natural anodised. Different ceiling modules are compensated for in the width of the housing

Dimensions

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

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





Products

Type	Lamps	lm/W	P _{Sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Diffuser, satinized direct distribution</i>								
protection-PREG/300-1200 IP54	LED 4700 840	143	33	vw	ED	1197 x 297 x 89	7253 2034 110	6,65
					DALI ¹⁾	1197 x 297 x 89	7253 2036 610	6,65
protection-PREG/312-1250 IP54								
	LED 4700 840	143	33	vw	ED	1247 x 309 x 89	7251 2034 110	6,71
					DALI ¹⁾	1247 x 309 x 89	7251 2036 610	6,71
protection-PREG/600 IP54								
	LED 4400 840	123	36	vw	ED ²⁾	597 x 597 x 89	7256 0014 110	5,30
					DALI ¹⁾²⁾	597 x 597 x 89	7256 0016 610	5,30
protection-PREG/625 IP54								
	LED 4400 840	123	36	vw	ED ²⁾	622 x 622 x 89	7250 0014 110	5,30
					DALI ¹⁾²⁾	622 x 622 x 89	7250 0016 610	5,30

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

²⁾ Additional certification:

Accessories

Type	Colour	Material	Details	Art. no.	kg
<i>Mounting</i>					
Fastening bracket	UBM	me	St	for PRE. LED	7995 0404 100
Securing	SCT CLIPS	me	St	for UE, RSEX, PNE..., PRE..., PEMP/625..., PEO/625...	7995 0000 100

protection LED

IP 54

Mounting:

- Ceiling recessed

Housing:

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

Lighting technology PREO:

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

Lamp:

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

Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

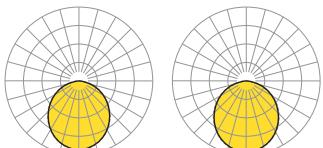
Miscellaneous:

- To remove the sealing frame a vacuum lifting pad SH 55 is needed

Accessories:

- UBM universal mounting brackets for concealed symmetrical rail constructions or recessed ceilings and SCT CLIPS locking clips for ceilings with visible T-rails to be ordered separately.

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



PREO/600 IP54 LED
4000 lm 840

PREO/312-1250 IP54
LED 4300 lm 840

η_{LB} lm/W	100 %	η_{LB} lm/W	100 %
direct/indirect	100/0 %	direct/indirect	100/0 %
UGR lat./long.	21,3/21,4	UGR lat./long.	21,7/21,9

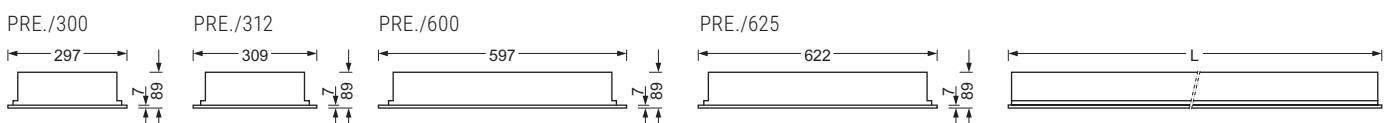


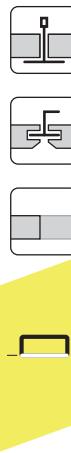
The diffuser frame is natural anodised. Different ceiling modules are compensated for in the width of the housing

Dimensions

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

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





Products

Type	Lamps	lm/W	P _{Sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Diffuser, opal direct distribution</i>								
protection-PREO/300-1200 IP54	LED 4300 840	130	33	vw	ED	1197 x 297 x 89	7253 2034 180	6,65
					DALI ¹⁾	1197 x 297 x 89	7253 2036 680	6,65
protection-PREO/312-1250 IP54								
	LED 4300 840	130	33	vw	ED	1247 x 309 x 89	7251 2034 180	6,71
					DALI ¹⁾	1247 x 309 x 89	7251 2036 680	6,71
protection-PREO/600 IP54								
	LED 4000 840	113	36	vw	ED ²⁾	597 x 597 x 89	7256 0014 180	5,30
					DALI ¹⁾⁽²⁾	597 x 597 x 89	7256 0016 680	5,30
protection-PREO/625 IP54								
	LED 4000 840	113	36	vw	ED ²⁾	622 x 622 x 89	7250 0014 180	5,30
					DALI ¹⁾⁽²⁾	622 x 622 x 89	7250 0016 680	5,30

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

²⁾ Additional certification:

Accessories

Type	Colour	Material	Details	Art. no.	kg
<i>Mounting</i>					
Fastening bracket	UBM	me	St	for PRE. LED	7995 0404 100
Securing	SCT CLIPS	me	St	for UE, RSEX, PNE..., PRE..., PEMP/625..., PEO/625...	7995 0000 100
Tool	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100



hokal



hokal – universal light run system

- Light run channel recessed luminaire LED and T5
- Solution for recessed panel ceiling
- Optionally with micro-parabolic louvre or opal diffuser
- Sheet steel housing with attachable end faces
- Light run installation with visually continuous louvres
- Suspended and surface-mounted luminaires



Type overview

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



►181



►40



►84

LED A+ 1500 F CE IP 20

Mounting:

- Ceiling recessed

Housing:

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

Lighting technology HLEG:

- Diffuser, satinized; PC plastic
- Lighting characteristic direct distribution
- 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 $\geq 80 / 4000\text{K}$

Switching:

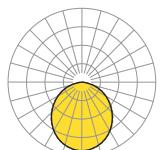
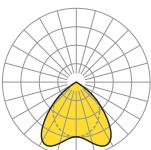
- 1 Controller
- Electronic driver
- 230V 50Hz

Accessories:

- End faces and universal attachment clips UBD for cut-out ceilings or WSPHL for panel ceilings (modules 100, 150); to be ordered separately.

hokal-HLEG...-1 LED

IoT

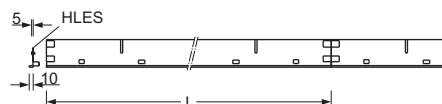
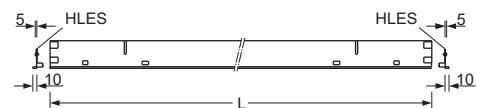
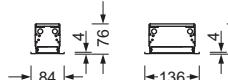
HLEG/1200-1 LED
2400 lm 840HLEX/1200-1 LED
3400 lm 840

η_{LB} lm/W	100 %	η_{LB} lm/W	100 %
direct/indirect	100/0 %	direct/indirect	100/0 %
UGR lat./long.	24,7/24,8	UGR lat./long.	20,8/20,1
VDU	$65^\circ < 1500 \text{ cd/m}^2$		

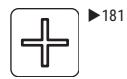
Dimensions

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

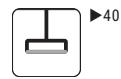
HLE. 1x ... HLE. 2x ...



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



►181



►84

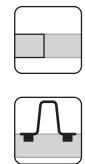
REGIOLUX

179

hokal-HLEX...-1 LED



hokal-HLEX...-2 LED



Products

Type	Lamps	lm/W	P _{Sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Diffuser, satinied direct distribution</i>								
hokal-HLEG/1200-1	LED 2400 840	104	23	vw	ED DALI ¹⁾	1176 x 84 x 76 1176 x 84 x 76	6052 1024 180 6052 1026 680	3,10 3,10
hokal-HLEG/1500-1	LED 3600 840	100	36	vw	ED DALI ¹⁾	1476 x 84 x 76 1476 x 84 x 76	6052 3024 180 6052 3026 680	3,70 3,70
<i>Micro-parabolic louvre, silky matt direct distribution</i>								
hokal-HLEX/1200-1	LED 3400 840	118	28	vw	ED DALI ¹⁾	1176 x 84 x 76 1176 x 84 x 76	6052 1024 160 6052 1026 660	2,65 2,73
hokal-HLEX/1200-2	LED 6700 840	118	57	vw	ED DALI ¹⁾	1176 x 136 x 76 1176 x 136 x 76	6052 2024 160 6052 2026 660	4,00 4,00
hokal-HLEX/1500-1	LED 4200 840	119	35	vw	ED DALI ¹⁾	1476 x 84 x 76 1476 x 84 x 76	6052 3024 160 6052 3026 660	3,55 3,63
hokal-HLEX/1500-2	LED 8400 840	118	71	vw	ED DALI ¹⁾	1476 x 136 x 76 1476 x 136 x 76	6052 4024 160 6052 4026 660	4,50 4,50

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



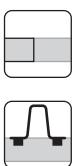
►181



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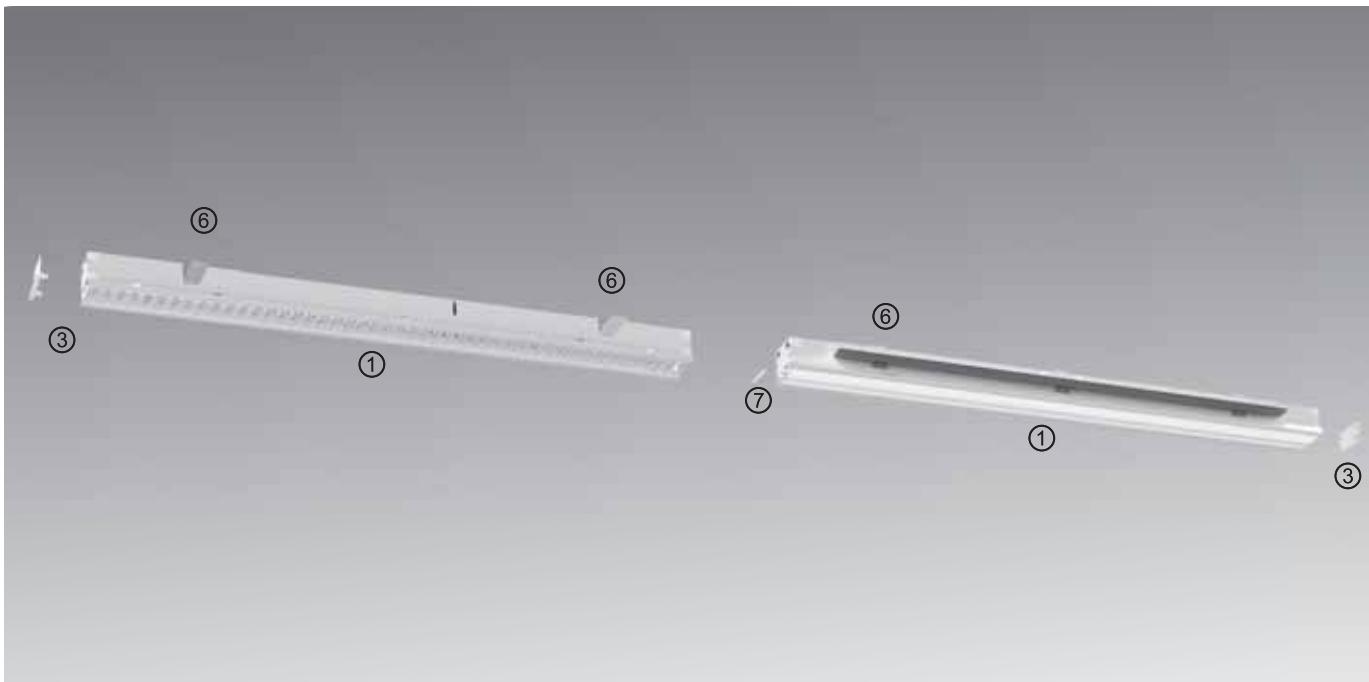


Products

Type	Lamps	P _{Sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	
<i>Diffuser, satinied direct distribution</i>							
hokal-HLEG	T5 1x28/54W	58	vw	ECG	1176 x 84 x 76	6052 1944 180	2,29
			vw	DALI ¹⁾	1176 x 84 x 76	6052 1946 680	2,30
T5 1x35/49/80W	52	vw	ECG	1476 x 84 x 76	6052 1954 180	3,19	
		vw	DALI ¹⁾	1476 x 84 x 76	6052 1956 680	3,18	
T5 2x35/49W	104	vw	ECG	1476 x 136 x 76	6052 2964 180	3,68	
		vw	DALI ¹⁾	1476 x 136 x 76	6052 2966 680	3,67	
T5 2x28W	60	vw	ECG	1176 x 136 x 76	6052 2284 180	2,92	
		vw	DALI ¹⁾	1176 x 136 x 76	6052 2286 680	3,06	
<i>Micro-parabolic louvre, highly specular direct distribution</i>							
hokal-HLED	T5 1x28/54W	58	vw	ECG	1176 x 84 x 76	6052 1944 170	2,27
			vw	DALI ¹⁾	1176 x 84 x 76	6052 1946 670	2,28
T5 1x35/49/80W	52	vw	ECG	1476 x 84 x 76	6052 1954 170	3,17	
		vw	DALI ¹⁾	1476 x 84 x 76	6052 1956 670	3,16	
T5 2x28/54W	116	vw	ECG	1176 x 136 x 76	6052 2944 170	3,02	
		vw	DALI ¹⁾	1176 x 136 x 76	6052 2946 670	3,16	
T5 2x35/49/80W	104	vw	ECG	1476 x 136 x 76	6052 2954 170	3,84	
		vw	DALI ¹⁾	1476 x 136 x 76	6052 2956 670	3,84	
<i>Micro-parabolic louvre, silky matt direct distribution</i>							
hokal-HLEX	T5 1x28/54W	58	vw	ECG	1176 x 84 x 76	6052 1944 160	2,27
			vw	DALI ¹⁾	1176 x 84 x 76	6052 1946 660	2,28
T5 1x35/49/80W	52	vw	ECG	1476 x 84 x 76	6052 1954 160	3,17	
		vw	DALI ¹⁾	1476 x 84 x 76	6052 1956 660	3,26	
T5 2x28/54W	116	vw	ECG	1176 x 136 x 76	6052 2944 160	3,02	
		vw	DALI ¹⁾	1176 x 136 x 76	6052 2946 660	3,16	
T5 2x35/49/80W	104	vw	ECG	1476 x 136 x 76	6052 2954 160	3,81	
		vw	DALI ¹⁾	1476 x 136 x 76	6052 2956 660	3,80	

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

hokal recessed luminaires accessories



① hokal with FLVWR through-wiring

③ Luminaire end faces kit HLES or HLESG

⑥ Luminaire fixing UBD / WSPHL

⑦ Diffuser connector protection strip GSL

Accessories

	Type	Colour	Material	Details	Art. no.		
<i>Design</i>							
Diffuser connector	GSL -1	tz	PC	Protection strip for 1/.. hokal-HL..G, procube CU..G	8460 1001 100	1	0,06
	GSL -2	tz	PC	Protection strip for 2/.. hokal-HL..G, procube CU..G	8460 1002 100	1	0,06
End faces	hokal -HLES -1	vw	St	for hokal HLE T5 1x.., -1 LED	6058 1205 100	2	0,06
	hokal -HLES -2	vw	St	for hokal HLE T5 2x.., -2 LED	6058 2205 100	2	0,06
	hokal -HLESG -1	vw	St	for hokal HLEG T5 1x.., -1 LED	6058 1225 100	2	0,06
<i>Electrical technology</i>							
Through-wiring cable FLVWR 1500	ws	H05V2-U		5x1.5mm ² for light run-capable LED/T5/T8 surface-mounted and suspended luminaires (ECG versions)	1945 1580 100	1	0,16
<i>Mounting</i>							
Fastening bracket	UBD 74	me	St	for hokal HLE T5 1x.., -1 LED	7995 0742 100	2	0,17
	UBD 122	me	St	for hokal HLE T5 2x.., -2 LED	7995 1222 100	2	0,23
Mounting rail	WSPHL 1200	me	St.galv.	h=20-40mm for hokal HLE... 28/54	7996 1200 100	2	1,50
	WSPHL 1500	me	St.galv.	h=20-40mm for hokal HLE... 35/49/80	7996 1500 100	2	1,88
Tool	SH 30	sw	Polymer	Suction holder, d=30mm for smooth diffuser covers, narrow design	9203 0030 100	1	0,06
	SH 55	sw	Polymer	Suction holder, d=55mm for smooth diffuser covers, broad design	9203 0065 100	1	0,08



RE



RE - slim recessed luminaires in LED technology

- Linear louvre luminaires for a wide variety of ceiling systems
- Suitable for VDU workstations, UGR ≤ 19
- Robust luminaire suitable for cubus surface-mounted and suspended luminaires



Type overview

- RSEX Parabolic louvre, silky matt direct distribution
- RE./312 for 312 mm ceiling systems
- RE./300 for 300 mm ceiling systems

RE LED



LED A++ 1000 19 F F CE IP 20

Mounting:

- Ceiling recessed

Housing:

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

Lighting technology RSEX:

- Parabolic louvre, silky matt
- Lighting characteristic direct distribution
- 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
- $\text{CRI} \geq 80 / 4000\text{K}$

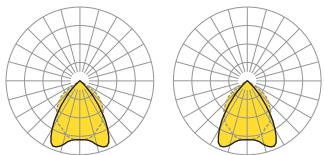
Switching:

- 1 Controller
- Electronic driver
- 230V 50Hz

Accessories:

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

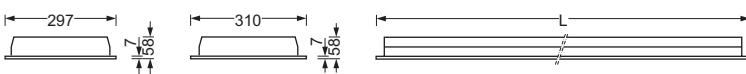
RSEX LED



RSEX/300 -1200 LED 3100 lm 840	RSEX/300 -1200 LED 4300 lm 840
η_{LB} lm/W	100 %
147	139
direct/indirect	100/0 %
15,3/18,9	16,5/20,1
UGR lat./long.	65° < 1000cd/m ²
VDU	65° < 1000cd/m ²

Dimensions

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



Products

Type	Lamps	lm/W	P _{Sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Parabolic louvre, silky matt direct distribution</i>								
RSEX/300 -1200	LED 3100 840	147	21	vw	ED DALI ¹⁾	1197 x 297 x 58	7161 0304 160	5,00
	LED 4300 840	139	31	vw	ED DALI ¹⁾	1197 x 297 x 58	7161 0306 660	5,00
RSEX/312 -1250	LED 3100 840	147	21	vw	ED DALI ¹⁾	1247 x 310 x 58	7101 0304 160	5,00
	LED 4300 840	139	31	vw	ED DALI ¹⁾	1247 x 310 x 58	7101 0306 660	5,00
RSEX/312 -1550	LED 3900 840	147	26	vw	ED	1247 x 310 x 58	7101 0504 160	5,00
						1547 x 310 x 58	7101 0506 660	6,30

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

Accessories

Type	Colour	Material	Details	Art. no.	kg
<i>Mounting</i>					
Fastening bracket	UBB T5/LED	me	St	for UE T5/LED, RSEX LED	7995 0504 100
Securing	SCT CLIPS	me	St	for UE, RSEX, PNE..., PRE..., PEMP/625..., PEO/625...	7995 0000 100





UE

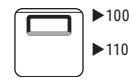
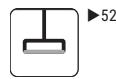
**UE universal recessed luminaires –
with very good glare-control**

- Square universal recessed luminaire in LED and T5 configurations
- Economic recessed luminaire with reduced installation costs
- In various versions suitable for standard ceiling systems

**Type overview**

- UEX Parabolic louvre, silky matt direct distribution
- UED Parabolic louvre, highly specular direct distribution
- UEM Louvre, white direct distribution
- UE./625 for 625 x 625 mm ceiling systems
- UE./600 for 600 x 600 mm ceiling systems

UE LED



▶110

LED A++ 1000 840 F IP 20

Mounting:

- Ceiling recessed

Housing:

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

Lighting technology UEX:

- Parabolic louvre, silky matt
- Lighting characteristic direct distribution
- 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:

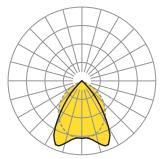
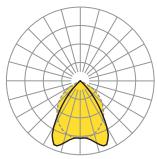
- 1 Controller
- Electronic driver
- 230V 50Hz

Accessories:

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

UEX LED

IoT

UEX/600 LED
3200 lm 840UEX/625 LED
4000 lm 840

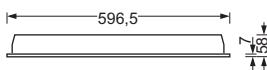
η_{LB} 100 % η_{LB} 100 %
lm/W 151 lm/W 144
direct/indirect 100/0 % direct/indirect 100/0 %
UGR lat./long. 10,6/15,8 UGR lat./long. 11,5/16,7
VDU $65^\circ < 1000 \text{ cd/m}^2$ VDU $65^\circ < 1000 \text{ cd/m}^2$

Dimensions

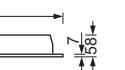
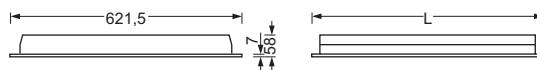
Type	Versions	LxBxH/DxH	T	MLxMB	Et	MLxMB	Et	DA _L xDA _B	Et
UE./600	LED	596,5 x 596,5 x 58	51	600 x 600	250	600 x 600	120	585 x 585	120
UE./625	LED	621,5 x 621,5 x 58	51	625 x 625	250	625 x 625	120	585 x 585	120

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

UE./600



UE./625

**Products**

Type	Lamps	lm/W	P _{Sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Parabolic louvre, silky matt direct distribution</i>								
UEX/600	LED 3200 840	151	21	vw	ED DALI ¹⁾	596,5 x 596,5 x 58 596,5 x 596,5 x 58	7662 0404 160 7662 0406 660	3,90 3,90
	LED 4000 840	144	28	vw	ED DALI ¹⁾	596,5 x 596,5 x 58 596,5 x 596,5 x 58	7662 0504 160 7662 0506 660	3,90 3,90
UEX/625	LED 3200 840	151	21	vw	ED DALI ¹⁾	621,5 x 621,5 x 58 621,5 x 621,5 x 58	7602 0404 160 7602 0406 660	3,90 3,90
	LED 4000 840	144	28	vw	ED DALI ¹⁾	621,5 x 621,5 x 58 621,5 x 621,5 x 58	7602 0504 160 7602 0506 660	3,90 3,90

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

Accessories

Type	Colour	Material	Details	Art. no.	kg
<i>Mounting</i>					
Fastening bracket	UBB T5/LED	me	St	for UE T5/LED, RSEX LED	7995 0504 100
Securing	SCT CLIPS	me	St	for UE, RSEX, PNE..., PRE..., PEMP/625..., PEO/625...	7995 0000 100



Products

Type	Lamps	P _{Sys} [W]	Colour	Ballast	LxBxH/DxH	Art. no.	kg
<i>Parabolic louvre, highly specular direct distribution</i>							
UED	T5 3x14W	48	vw	ECG	621,5 x 621,5 x 58	7607 3144 170	4,10
			vw	DALI ¹⁾	621,5 x 621,5 x 58	7607 3146 670	4,10
	T5 3x24W	78	vw	ECG	621,5 x 621,5 x 58	7607 3244 170	4,10
	T5 4x14W	64	vw	ECG	621,5 x 621,5 x 58	7607 4144 170	3,90
			vw	DALI ¹⁾	621,5 x 621,5 x 58	7607 4146 670	3,90
			vw	ECG EM-B3 ²⁾	621,5 x 621,5 x 58	7607 4147 770	4,30
	T5 4x24W	104	vw	ECG	621,5 x 621,5 x 58	7607 4244 170	3,90
UED/6	T5 3x14W	48	vw	ECG	596,5 x 596,5 x 58	7667 3144 170	3,90
			vw	DALI ¹⁾	596,5 x 596,5 x 58	7667 3146 670	3,90
	T5 4x14W	64	vw	ECG	596,5 x 596,5 x 58	7667 4144 170	3,70
			vw	DALI ¹⁾	596,5 x 596,5 x 58	7667 4146 670	3,70
			vw	ECG EM-B3 ²⁾	596,5 x 596,5 x 58	7667 4147 770	4,10
<i>Parabolic louvre, silky matt direct distribution</i>							
UEX	T5 3x14W	48	vw	ECG	621,5 x 621,5 x 58	7607 3144 160	4,03
			vw	DALI ¹⁾	621,5 x 621,5 x 58	7607 3146 660	4,03
	T5 4x14W	64	vw	ECG	621,5 x 621,5 x 58	7607 4144 160	3,80
			vw	DALI ¹⁾	621,5 x 621,5 x 58	7607 4146 660	3,80
			vw	ECG EM-B3 ²⁾	621,5 x 621,5 x 58	7607 4147 760	4,20
UEX/6	T5 3x14W	48	vw	ECG	596,5 x 596,5 x 58	7667 3144 160	3,80
			vw	DALI ¹⁾	596,5 x 596,5 x 58	7667 3146 660	3,83
	T5 4x14W	64	vw	ECG	596,5 x 596,5 x 58	7667 4144 160	3,60
			vw	DALI ¹⁾	596,5 x 596,5 x 58	7667 4146 660	3,60
			vw	ECG EM-B3 ²⁾	596,5 x 596,5 x 58	7667 4147 760	4,00
<i>Louvre, white direct distribution</i>							
UEM	T5 3x14W	48	vw	ECG	621,5 x 621,5 x 58	7604 3144 110	4,20
			vw	DALI ¹⁾	621,5 x 621,5 x 58	7604 3146 610	4,20
	T5 4x14W	64	vw	ECG	621,5 x 621,5 x 58	7604 4144 110	4,00
			vw	DALI ¹⁾	621,5 x 621,5 x 58	7604 4146 610	4,00
			vw	ECG EM-B3 ²⁾	621,5 x 621,5 x 58	7604 4147 710	4,40
UEM/6	T5 3x14W	48	vw	ECG	596,5 x 596,5 x 58	7664 3144 110	4,00
			vw	DALI ¹⁾	596,5 x 596,5 x 58	7664 3146 610	4,00
	T5 4x14W	64	vw	ECG	596,5 x 596,5 x 58	7664 4144 110	3,80
			vw	DALI ¹⁾	596,5 x 596,5 x 58	7664 4146 610	3,80
			vw	ECG EM-B3 ²⁾	596,5 x 596,5 x 58	7664 4147 710	4,20

¹⁾ IoT: Luminaires suitable for IoT (Internet of Things)²⁾ +!: Luminaires with emergency light unit single battery 3h

Accessories

Type	Colour	Material	Details	Art. no.	kg	
<i>Electrical technology</i>						
Light Control	LC-OM MASTER REMOTE		Remote control for commissioning the DALIeco (M5S5) light control system	8450 1041 200	1 0,11	
	PC KIT					
	LC-OM USER REMOTE		Remote control for the operation of the DALIeco (M5S5) light control system	8450 1042 100	1 0,11	
<i>Mounting</i>						
Fastening bracket	UBB T5/LED	me	St	for UE T5/LED, RSEX LED	7995 0504 100	4 0,20
Securing	SCT CLIPS	me	St	for UE, RSEX, PNE..., PRE..., PEMP/625..., PEO/625...	7995 0000 100	4 0,10







Application pictures

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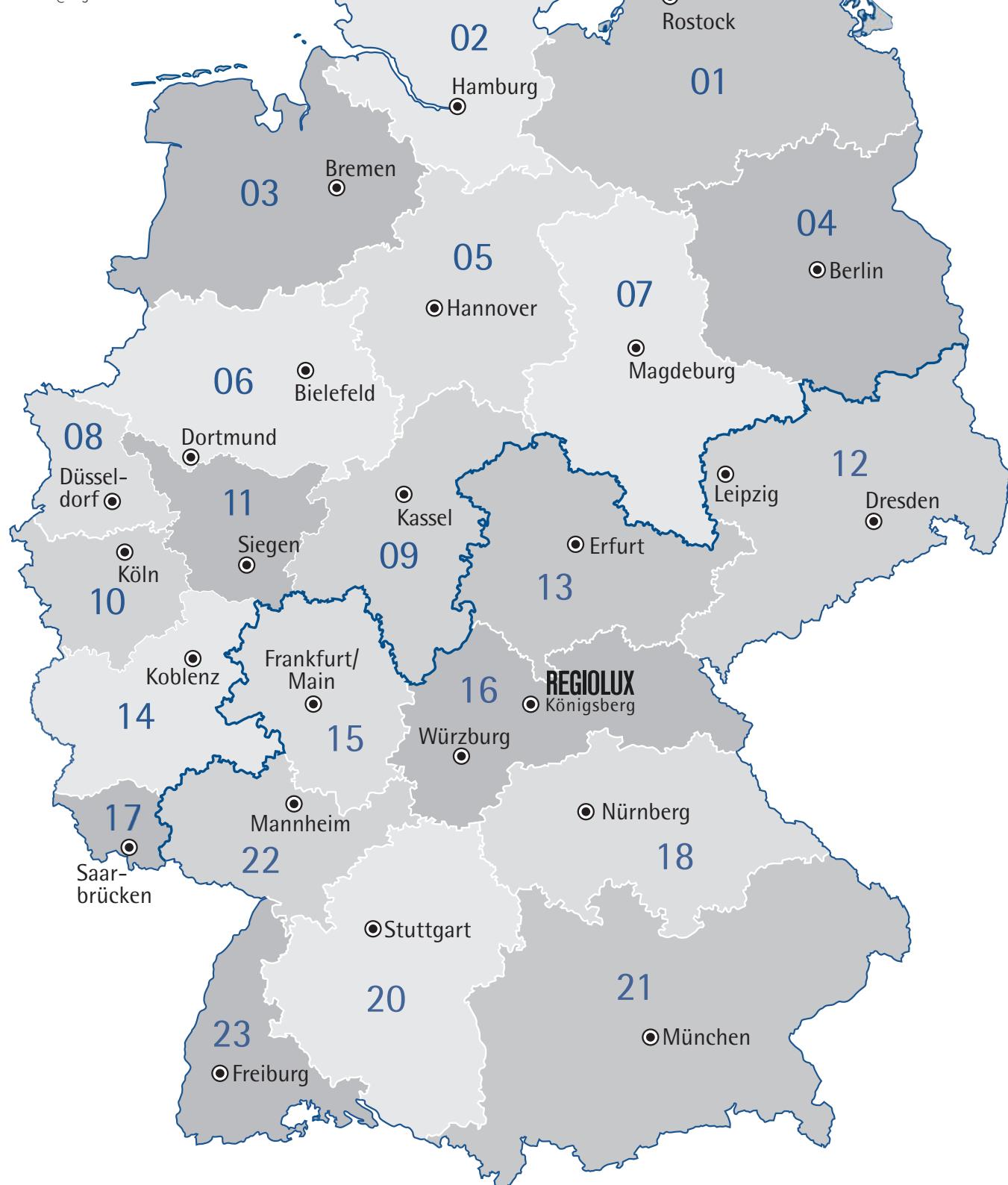
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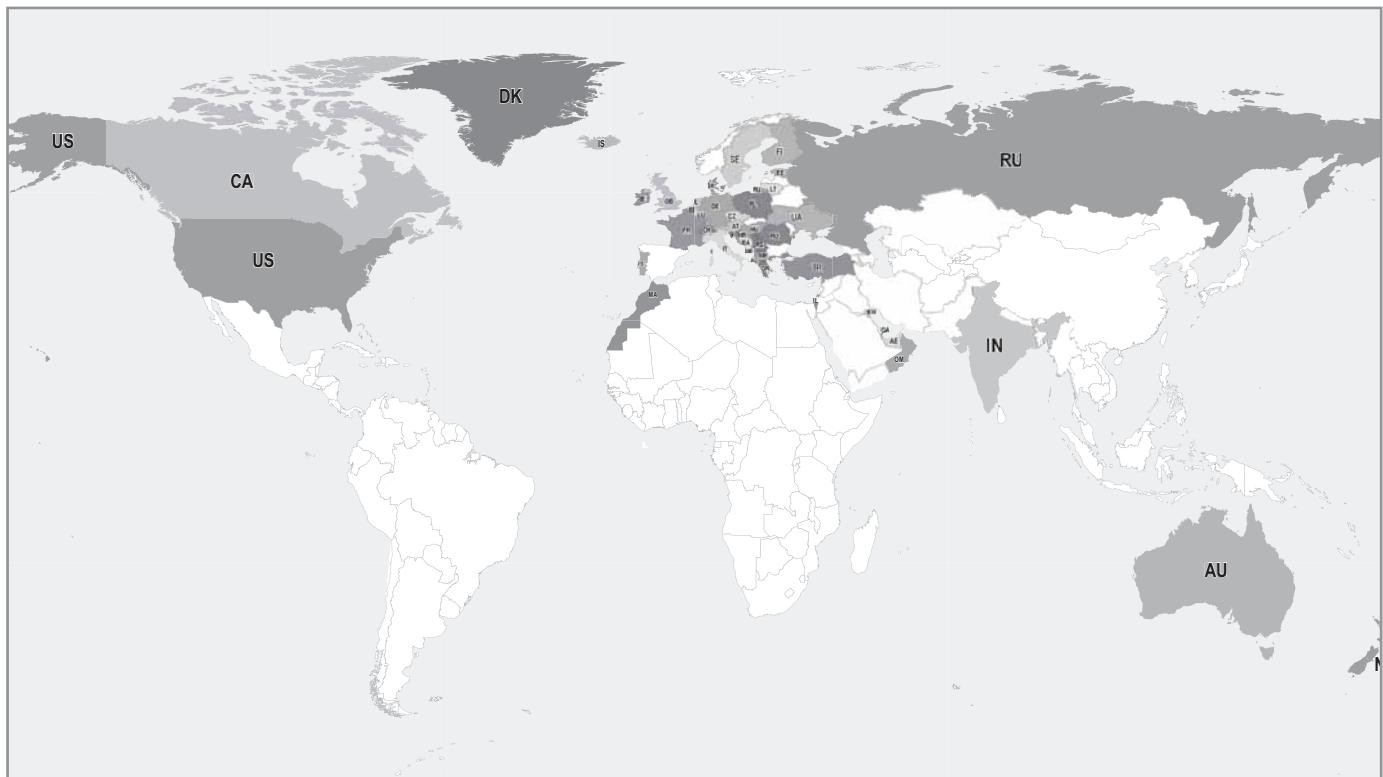
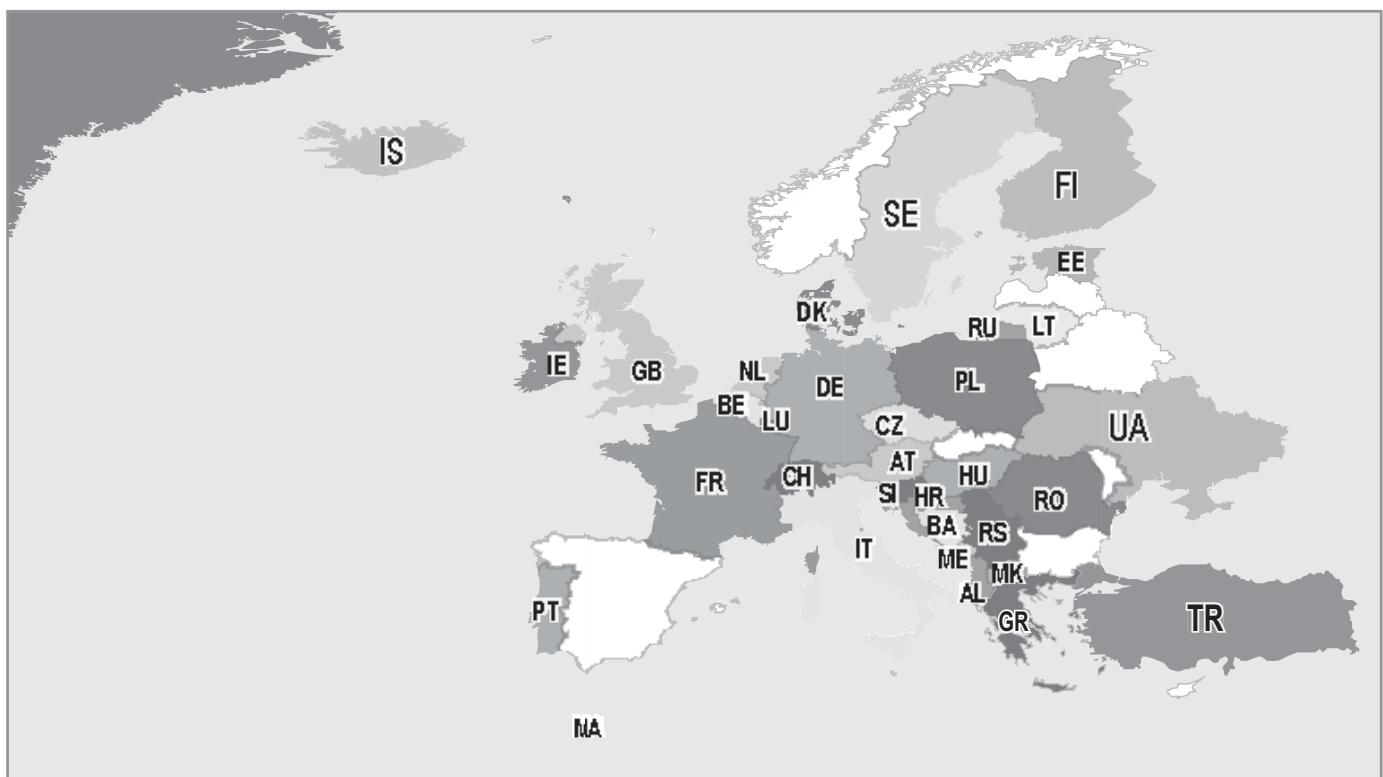
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