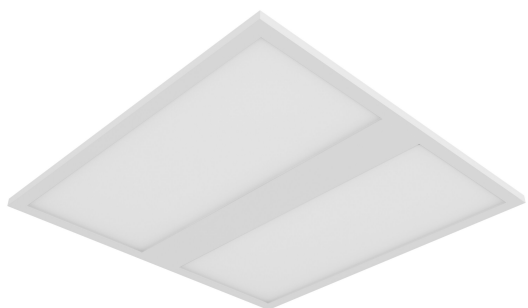


# PRODUCT DATASHEET

## PL PROT 600 P 36W 830 PS

PANEL PROTECT 600 PS | Square recessed panel luminaires with IP54 protection and power select (PS) feature, 600 x 600 mm



### Areas of application

- Direct replacement for luminaires with fluorescent lamps
- Suitable for recessed ceiling systems with grid size of 600 x 600 mm
- Hospitals
- Laboratories
- Kitchens, canteens, workspaces

### Product benefits

- Suitable for use in applications where a higher IP protection is needed
- Highly versatile due to selectable power steps (Power Select - PS) on the driver and up to 5040 lm
- Tool-free electrical connection due to push button connector
- Through-wiring possible with included connector box
- Energy savings thanks to high system efficacy: up to 140 lm/W
- High color consistency with SDCM 3
- Extended services such as energy monitoring and remote maintenance possible with DALI versions
- External driver for extended flexibility and easy installation
- Easy cleanable frontside thanks to the smooth PMMA surface of the diffuser
- Suitable for battery emergency installations acc. to EN 60598-2-22
- Decentral emergency lighting possible with separately available LEDVANCE Emergency Conversion Box
- 5 years guarantee

### Product features



- Type of protection: IP54 (frontside), IP20 (backside)
- Steel housing with notch in the backside for the driver to allow maximum height of 34 mm
- PMMA diffuser
- 5-pole terminal block, cable cross section up to 5 x 2.5 mm<sup>2</sup>
- Luminaire versions with IoT-ready DALI-2 driver available
- Lifetime (L90/B10): 50,000 h (at 25° C)
- Panel can be customized with optical sensors on individual request

## TECHNICAL DATA

### Electrical data

Nominal wattage	36 W / 31 W / 26 W / 22 W <sup>1)</sup>
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	165.000 mA
Inrush current	0.2 A
Inrush current time $T_{h50}$	450 $\mu$ s
Max. no. of lum. on circuit break. B16 A	16
Max. no. of lum. on circuit break. C10 A	24
Max. no. of lum. on circuit break. C16 A	38
Power factor $\lambda$	> 0.90
Total harmonic distortion	< 20 %
Protection class	II
Operating mode	External LED driver

<sup>1)</sup> The Panel Protect family is fulfilling the technical minimum requirements according to the German BEG subsidy program for energy efficient luminaires

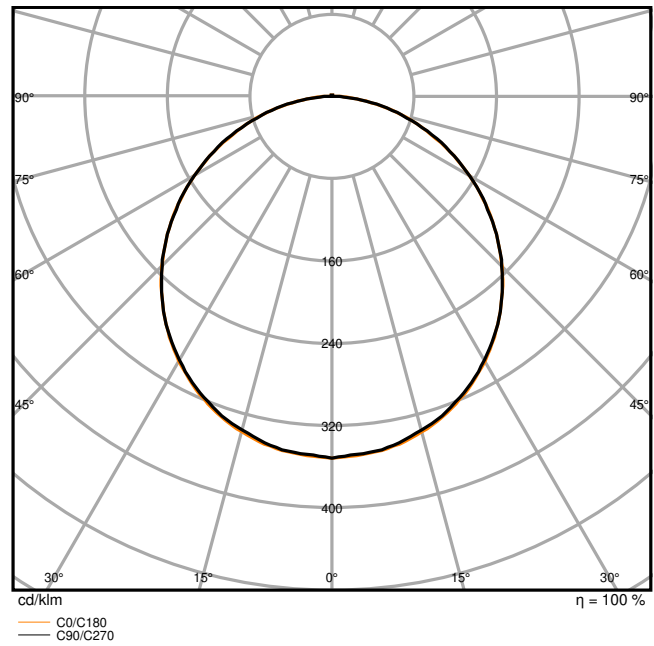
### Photometrical data

Luminous flux	5040 lm / 4340 lm / 3640 lm / 3080 lm <sup>1)</sup>
Luminous efficacy	140 lm/W <sup>1)</sup>
Color temperature	3000 K
Light color (designation)	Warm White
Color rendering index Ra	> 80
Standard deviation of color matching	3 sdc <sub>m</sub>
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	< 0.4
Photobiological safety group acc. to EN62778	RG0
Photobiological safety group acc. to EN62471	RG0
Beam angle	120 °

<sup>1)</sup> The Panel Protect family is fulfilling the technical minimum requirements according to the German BEG subsidy program for energy efficient luminaires

0.5	1.48 1.48	E(0°) E(C90) E(C0)	56.2° 56.2° 56.1°	7087 610 616
1.0	2.98 2.98	E(0°) E(C90) E(C0)	56.2° 56.2° 56.1°	1772 153 154
1.5	4.48 4.46	E(0°) E(C90) E(C0)	56.2° 56.2° 56.1°	787 68 68
2.0	5.98 5.95	E(0°) E(C90) E(C0)	56.2° 56.2° 56.1°	443 38 39
2.5	7.47 7.44	E(0°) E(C90) E(C0)	56.2° 56.2° 56.1°	283 24 25
3.0	8.98 8.93	E(0°) E(C90) E(C0)	56.2° 56.2° 56.1°	197 17 17
Distance [m]	Cone diameter [m]	Illuminance [lx]		
— C0/C180 (Half beam angle [°]: 112.2°) — C90/C270 (Half beam angle [°]: 112.4°)				

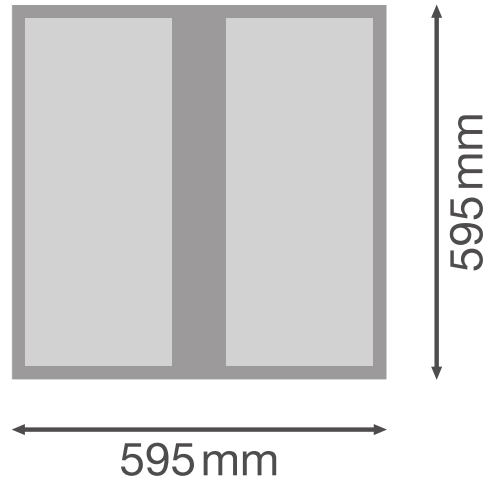
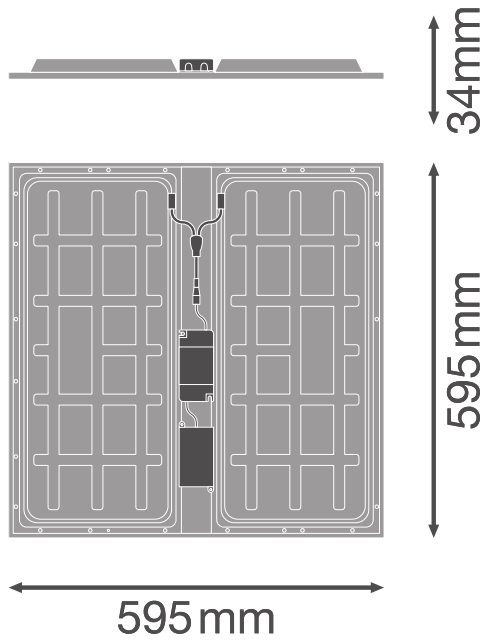
LDC typ cone



LDC typ polar

### Dimensions & Weight

Length	595.00 mm
Width	595.00 mm
Height	34.00 mm
Product weight	2020.00 g



Product line drawing with numbers

Product line drawing with numbers

### Materials & Colors

Product color	White
Housing color	White
Body material	Steel
Cover material	Polymethylmethacrylate (PMMA)
Light emitting surface material	Polymethylmethacrylate (PMMA)
Glow Wire Test according to IEC 60695-2-12	650 °C
Mercury content	0.0 mg

### Application & Mounting

Ambient temperature range	-10...+50 °C
Temperature range at storage	-20...+70 °C
Type of connection	Screwless terminal, 5-Pole (L, N, PE, DA+, DA-)
Type of protection	IP54/IP20
Protection class IK (shock resistance)	IK02
Dimmable	No
Mounting type	Recessed/Suspended/Surface

Mounting location	Ceiling
Application environment	Indoor
Mounting length	575 mm
Mounting width	575 mm
Mounting depth	50,0 mm
Adjustable	No
LED module replaceable	Not replaceable
With light source	Yes

### Lifespan

Lifespan L70/B50 at 25 °C	100000 h <sup>1)</sup>
Lifespan L80/B10 at 25 °C	70000 h <sup>1)</sup>
Lifespan L90/B10 at 25 °C	50000 h
Number of switching cycles	100000

<sup>1)</sup> t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

### Control gear

Output current	800 mA
ECG - Output ripple current	< 5 %
ECG - Length	125,0 mm
ECG - Width	60 mm
ECG - Height	26,7 mm
Recommended control gear	OSRAM OTi_DALI_50/220-240/1A4 NFC / TRIDONIC LCA 45W 500-1400mA one4all SC PRE

### Certificates & Standards

Standards	CE / CB / ENEC / UKCA / EAC / EL
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No

### Additional product data














Product remark	Available from September 2023
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### EQUIPMENT / ACCESSORIES

- Accessories for several mounting options available
- Connector box with 5-pole terminal pre-installed
- Security rope for luminaire included

- Security brackets preinstalled
- External control gear included
- Suitable for use with separate Emergency Conversion Box
- Special mounting frame with an overall height of only 50 mm available separately

DOWNLOAD DATA

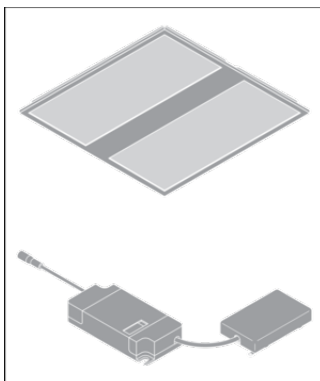
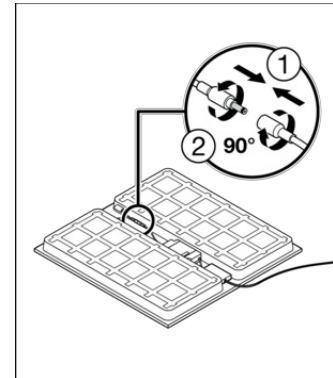
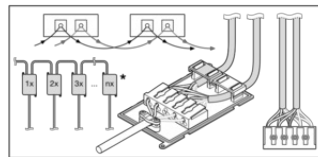
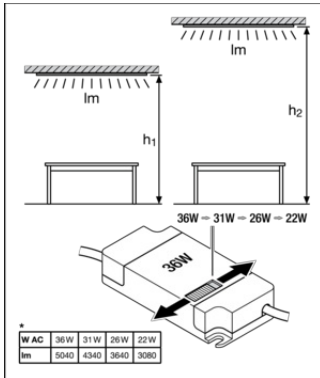
Documents and certificates	
	User instruction
	Addon Technical Information
	Packaging insert
	Declarations Of Conformity CE
	Declarations Of Conformity UKCA
Photometric and lighting design files	
	IES file (IES)
	LDT file (Eulumdat)
	UGR file (UGR table)
	LDC typ cone
	LDC typ polar
CAD/BIM files	
	BIM_Revit_3D
	CAD_STEP_3D
Tender texts	
	Tender documents

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854082863	Folding box 1	41 mm x 602 mm x 602 mm	2408.00 g	14.86 dm <sup>3</sup>
4099854082870	Shipping box 5	620 mm x 229 mm x 631 mm	13122.00 g	89.59 dm <sup>3</sup>

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

### ADDITIONAL CATALOG INFORMATION



### References / Links

- For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

### DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.