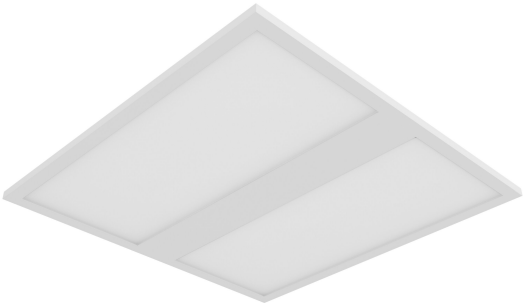
PRODUCT DATASHEET
PL PROT 600 P 36W 830 DALIVR

PANEL PROTECT 600 DALI | Square recessed panel luminaires with IP54 protection, DALI-2 IoT technology, 600 x 600 mm



PERFOR-MANCE CLASS

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
- High lumen output with up to 5040 lm
- Tool-free electrical connection due to push button connector
- Through-wiring possible with included connector box
- 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^2

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- Lifetime (L90/B10): 50,000 h (at 25° C)
- Panel can be customized with optical sensors on individual request

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TECHNICAL DATA

Electrical data

Nominal wattage	36.00 W [1)]
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 µs
Max. number of luminaires per miniature circuit breaker B16	23
Max. number of luminaires per miniature circuit breaker C10	16
Max. number of luminaires per miniature circuit breaker C16	26
Power factor λ	> 0.90
Maximum total harmonic distortion	< 20 %
Protection class	II
Operating mode	External LED driver
Dimming interface	DALI-2 / IoT / Push-DIM

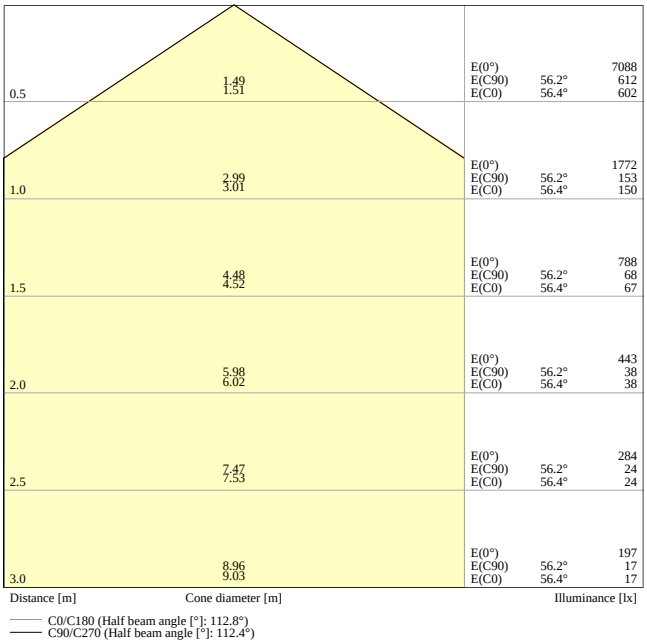
1) The Panel Protect family is fulfilling the technical minimum requirements according to the German BEG subsidy program for energy efficient luminaires

Photometrical data

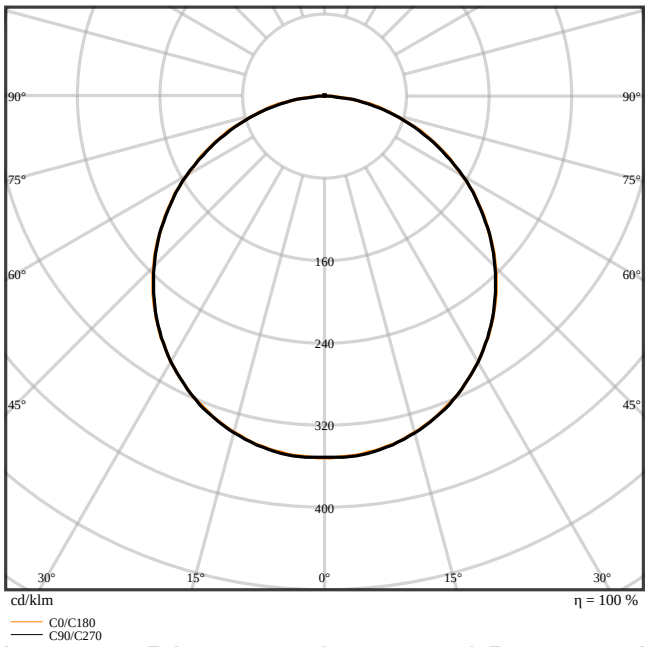
Luminous flux	5040 lm [1)]
Luminous efficacy	140 lm/W [1)]
Color temperature	3000 K
Light color (designation)	Warm White
Color rendering index Ra	> 80
Standard deviation of color matching	3 sdcm
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	< 0.4
Photobiological safety group acc. to EN62778	RG0
Photobiological safety group acc. to EN62471	RG0
Beam angle	120 °
CIE Flux code	47 79 96 99 100

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

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PL PROT 600 P 36W 830 DALIVR 5040lm

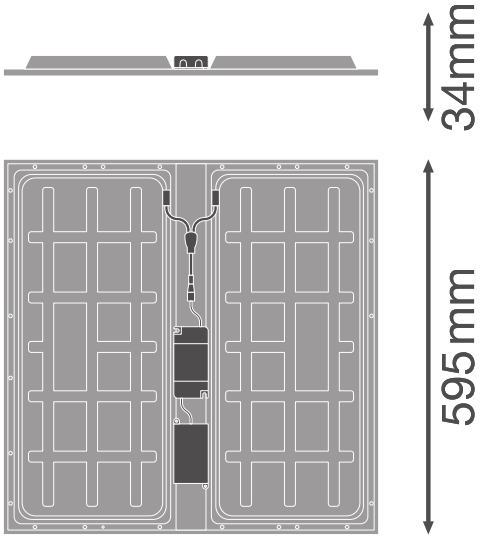


PL PROT 600 P 36W 830 DALIVR 5040lm

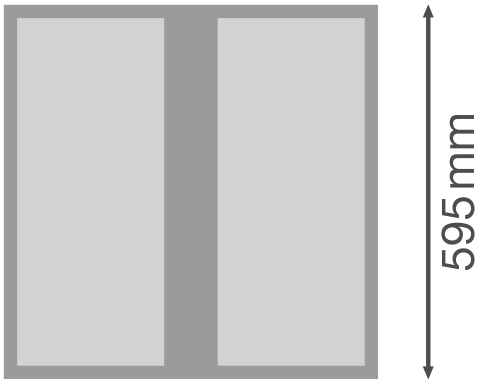
Dimensions & Weight

Length	595.00 mm
Width	595.00 mm
Height	34.00 mm
Product weight	2080.00 g

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PL PROT 600 P 36W



PL PROT 600 P 36W

Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
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	Yes
Type of dimming	DALI-2
IoT ready	Support of DALI data type PART 251, 252, 253 [1)]

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Mounting type	Recessed/Suspended/Surface
Mounting location	Ceiling
Application environment	Indoor
Mounting length	575 mm
Mounting width	575 mm
Mounting depth	50,0 mm
Mechanically adjustable	No
With light source	Yes
Replaceable light source	No

1) Internet of Things. Supports data transfer via gateway to cloud-based monitoring platforms, such as LEDVANCE VIVARES Cloud

Lifespan

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

1) 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
Output ripple current (100 Hz)	< 5 %
ECG - Length	145 mm
ECG - Width	75,0 mm
ECG - Height	25,0 mm
Recommended control gear	OSRAM OTi_DALI_50/220-240/1A4 NFC / TRIDONIC LCA 45W 500–1400mA one4all SC PRE

Emergency lighting

Type of Emergency Lighting (EL)	Optional EL unit (battery and controller) for decentral operation available separately / EL certified driver (0Hz / DC operation) for central battery operation included
Wattage in emergency operation mode	6.5 W
Luminous flux in emergency operation mode	720 lm

Certificates & Standards

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

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Ball shot safe	No

Additional product data

Added function	VIVARES

Components for light control

Components Light Control

Product image	Product name	EAN
	MANUAL CONTROL UNIT GROUP DALI-2 TW	4099854748691
	MANUAL CONTROL UNIT SELECT DALI-2	4058075837485
	MANUAL CONTROL UNIT SELECT DALI-2 TW	4058075837508
	MANUAL CONTROL UNIT SELECT DALI-2 EXCHANGEABLE COVER TW	4058075837522
	MANUAL CONTROL UNIT TOUCH DALI-2 TW	4058075837560
	MANUAL CONTROL UNIT TOUCH DALI-2	4058075837546
	PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075837584
	PUSH CONTROL UNIT FM DALI-2 DIM	4099854846922

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Product image	Product name	EAN
	SURFACE MOUNT FRAME	4058075843561
	PUSHBUTTON COUPLER DALI-2	4058075837607
	FLEX CONTROL UNIT IOT DALI-2 HCL TW	4058075841888
	FLEX CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075841901
	FLEX CONTROL UNIT DALI-2 TW	4058075843844
	FLEX CONTROL UNIT REAL-TIME-CLOCK DALI-2 HCL TW	4058075841925
	SENSOR DALI-2 LIGHT/PRESENCE-6 INFRARED CEILING INTEGRATION	4058075837621
	SENSOR CEILING MOUNTING KIT LIGHT/PRESENCE-6	4099854748714
	SENSOR DALI-2 LIGHT/PRESENCE-8 INFRARED CEILING INTEGRATION	4058075841949
	SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION	4058075843868
	SENSOR DALI-2 LIGHT/PRESENCE-24 INFRARED CEILING MOUNTING	4058075843882

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Product image	Product name	EAN
	HIGHBAY SENSOR DALI-2 LIGHT/PRESENCE -21 INFRARED CEILING MOUNTING	4058075857537
	DALI sensors -8 IR CI, -40X5 IR CI, -24 IR CM, -21 IR CM	4058075843905
	RELAY DALI-2 RAIL MOUNTING	4099854709159
	RELAY DALI-2 CEILING MOUNTING	4099854709135
	REPEATER DALI-2 RAIL MOUNTING	4099854709111
	REPEATER DALI-2 CEILING MOUNTING	4099854709098

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	Document name
PDF	User instruction / safety instructions	UI PL PROT 600 P 36W and PL PROT 625 P 36W
PDF	Addon technical information	Panel accessories compatibility overview
PDF	Legal information	Legal Insert PL PROT P

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	Documents and certificates	Document name
PDF	Legal information	LSI PL PROT P 36W
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	EM Insert PL PROTECT
PDF	Declarations of conformity	CE Declaration PL PROT
PDF	Declarations of conformity UKCA	UKCA Declaration PL PROT
PDF	EU Data Act	DALI LED Driver and Luminaires

	Photometric and lighting design files	Document name
IES	IES file (IES)	PL PROT 600 P 36W 830 DALIVR 5040lm
LDT	LDT file (Eulumdat)	PL PROT 600 P 36W 830 DALIVR 5040lm
ULD	ULD file (DIALux)	PL PROT 600 P 36W 830 DALI VR
ROLF	ROLF file (RELUX)	PL PROT 600 P 36W 830 DALI
	UGR file (UGR table)	PL PROT 600 P 36W 830 DALIVR 5040lm
	Light distribution curve type cone	PL PROT 600 P 36W 830 DALIVR 5040lm
	Light distribution curve type polar	PL PROT 600 P 36W 830 DALIVR 5040lm

	CAD/BIM files	Document name
RFA	BIM Revit 3D	PL PROT
STEP	CAD STEP 3D	PL PROT 600

	Tender texts	Document name
TXT	Tender documents	PANEL PROTECT 600 DALI 36W 830 DALIVR-EN

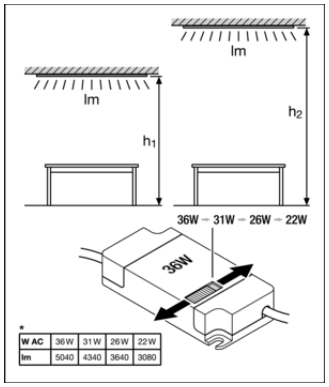
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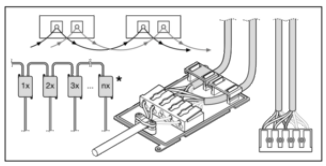
LOGISTICAL DATA

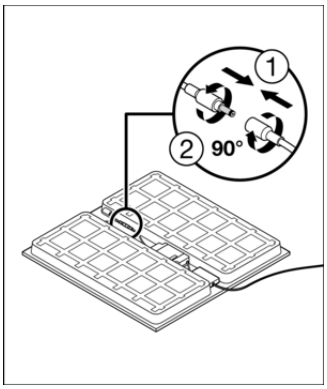
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854082900	Folding box 1	41 mm x 602 mm x 602 mm	2468.00 g	14.86 dm^3
4099854082917	Shipping box 5	620 mm x 229 mm x 631 mm	13422.00 g	89.59 dm^3

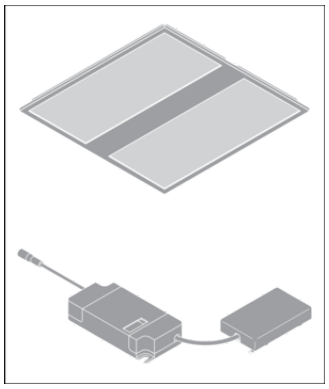
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

ADDITIONAL CATALOG INFORMATION









References / Links

– For Guarantee see www.ledvance.com/guarantee

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