PRODUCT DATASHEET
PL CLEANR 600 DA P 38W 940 U19 IP65

PANEL CLEANROOM 600 | Square recessed panel luminaires with IP65 protection for cleanroom applications, 600 x 600 mm



PERFOR-MANCE CLASS

Areas of application

- Suitable for recessed ceiling systems with grid size of 600 x 600 mm
- Cleanroom environments
- Direct replacement for luminaires with fluorescent lamps
- Hospitals
- Laboratories

Product benefits

- Homogenous light distribution and reduced glare (up to UGR < 19)
- Suitable for applications requiring cleanroom luminaires according to ISO 14644-14
- Tool-free electrical connection due to IP65 DALI push button connector
- Included DALI-2 driver enables energy monitoring and remote maintenance
- Suitable for battery emergency installations acc. to EN 60598-2-22
- High color consistency with SDCM 3

Product features

- Type of protection: IP65
- IoT-ready DALI-2 driver
- ISO 14644 Class 1 certified
- Low-glare versions with up to UGR < 19
- Screwless design for easy mounting
- Tempered glass with prismatic diffuser
- Lifetime (L80/B10): up to 100,000 h (at 25 °C)
- 5-pole terminal block, cable cross section up to 5 x 2.5 mm^2
- System luminous efficacy: up to 120 lm/W



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TECHNICAL DATA

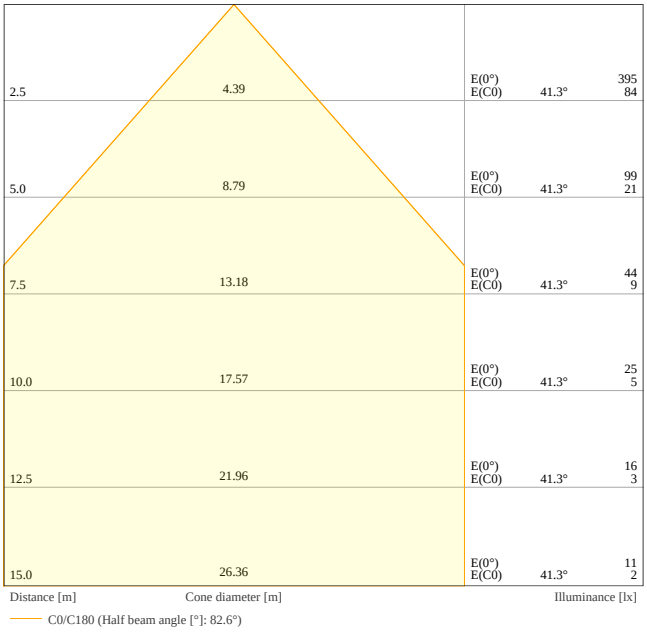
Electrical data

Nominal wattage	38.00 W
Nominal voltage	200…240 V
Mains frequency	0/50/60 Hz
Nominal current	200 mA
Inrush current	14.75 A
Inrush current time T_{h50}	256 µs
Max. number of luminaires per miniature circuit breaker B16	29
Max. number of luminaires per miniature circuit breaker C10	30
Max. number of luminaires per miniature circuit breaker C16	48
Power factor λ	0.90
Total harmonic distortion	≤ 20 %
Protection class	II
Operating mode	External LED driver
Dimming interface	DALI-2 / IoT

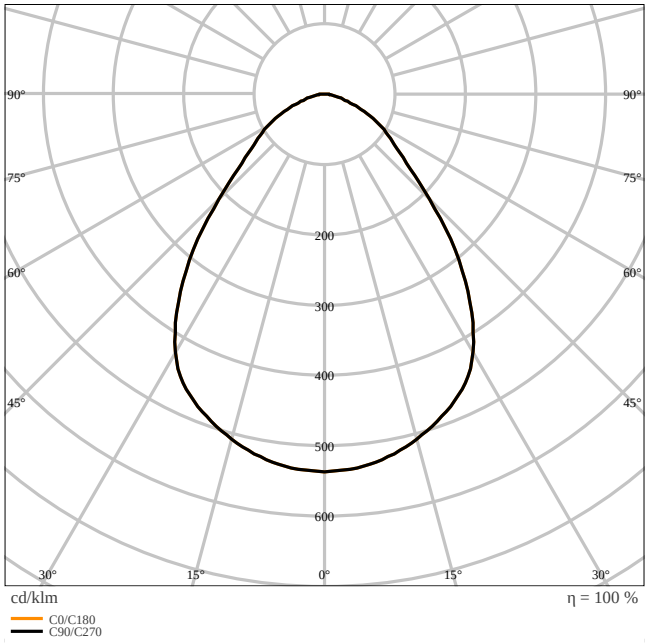
Photometrical data

Luminous flux	4600 lm
Luminous efficacy	120 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	> 90
Standard deviation of color matching	< 3 sdcm
Luminous intensity	2460
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	85 °
UGR	< 19

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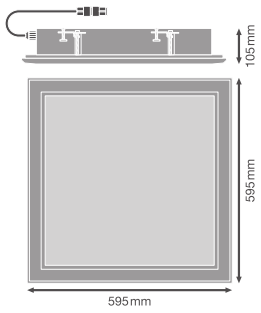
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Dimensions & Weight

Length	595.00 mm
Width	595.00 mm
Height	105.00 mm
Product weight	8740.00 g
Cable length	460 mm



PL CLEANR

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Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
Body material	Aluminum|Steel
Cover material	Glass
Light emitting surface material	Glass | Polystyrene
Glow Wire Test according to IEC 60695-2-12	650 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	-20…+45 °C
Temperature range at storage	-20…+80 °C
Type of connection	Screwless terminal, 5-Pole (L, N, PE, DA+, DA-)
Type of protection	IP65
Protection class IK (shock resistance)	IK08
Dimmable	Yes
Type of dimming	DALI-2
Dimming range	1…100 %
IoT ready	Support of DALI data type PART 251, 252, 253 [1)]
Mounting type	Recessed
Mounting location	Ceiling
Application environment	Indoor
Mounting length	578 mm
Mounting width	578 mm
Mounting depth	105 mm
Mechanically adjustable	No
With light source	Yes
Replaceable light source	Yes

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	100000 h [1)]
Lifespan L80/B50 at 25 °C	100000 h
Lifespan L90/B10 at 25 °C	67000 h [1)]

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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	1000 mA
Output ripple current (100 Hz)	< 3 %
ECG - Length	137 mm
ECG - Width	46.00 mm
ECG - Height	30 mm

Emergency lighting

Type of Emergency Lighting (EL)	EL certified driver (0Hz / DC operation) for central battery operation included
Type of emergency operation test	None
Wattage in emergency operation mode	38 W
Luminous flux in emergency operation mode	4600 lm

Certificates & Standards

Standards	CE / UKCA / IPA ISO1
Luminaire with limited surface temperature, "D sign"	No
Replaceable light source (EPREL)	Only by an expert

Additional product data

Product remark	Available from December 2026
Added function	VIVARES

EQUIPMENT / ACCESSORIES

- Connector box with 5-pole terminal pre-installed
- Security rope for luminaire included

Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- The luminaires are not suitable for covering with thermally insulated material.
- To reduce the risk of strangulation the flexible wiring connected to this luminaire shall be effectively fixed to the wall if the wiring is within arm’s reach.

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DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	PANEL CLEANROOM
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Safety Insert G11262697
PDF	Legal information	Legal Insert G11258230
PDF	Legal information	Light Source Insert PANEL CLEANROOM

	Photometric and lighting design files	Document name
IES	IES file (IES)	PL CLEANR 600 DA P 38W 940 U19 IP65
LDT	LDT file (Eulumdat)	PL CLEANR 600 DA P 38W 940 U19 IP65
	UGR file (UGR table)	PL CLEANR 600 DA P 38W 940 U19 IP65
	Light distribution curve type cone	PL CLEANR 600 DA P 38W 940 U19 IP65
	Light distribution curve type polar	PL CLEANR 600 DA P 38W 940 U19 IP65

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854834387	Folding box 1	680 mm x 135 mm x 680 mm	10072.00 g	62.42 dm^3
4099854834394	Shipping box 1	700 mm x 155 mm x 705 mm	11200.00 g	76.49 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.

References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

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