

PRODUCT DATASHEET

PL CMFT 600 P 28W 840 DALIVR

PANEL COMFORT 600 DALI | Square recessed panel luminaire, for 600 x 600 mm ceiling systems and DALI-2 IoT technology



Areas of application

- Direct replacement for recessed luminaires with fluorescent lamps
- Offices, conference rooms
- Reception areas, foyers, corridors, elevators
- Suitable for recessed ceiling systems with grid size of 600 x 600 mm

Product benefits

- Suitable luminaire for VIVARES and other DALI-2 Light Management Systems
- 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 130 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
- Low flicker light thanks to special electronic control gear
- Suitable for emergency lighting
- 5 years guarantee

Product features

- IoT-ready luminaire with DALI-2 technology
- Suitable for central battery emergency installations acc. to EN 60598-2-22



- Push DIM function for dimming and switching directly on a pushbutton
- Extruded aluminum frame
- Polystyrene diffuser
- 5-pole terminal block, cable cross section up to 5 x 2.5 mm²
- Lifetime (L80/B10): 70,000 h (at 25 °C)

TECHNICAL DATA

Electrical data

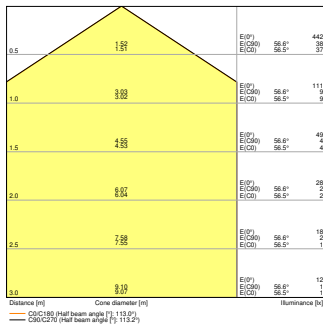
Nominal wattage	28.00 W ¹⁾
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	130.000 mA
Inrush current	4.4 A
Inrush current time T_{h50}	440 μ s
Max. number of luminaires per miniature circuit breaker B16	40
Max. number of luminaires per miniature circuit breaker C10	40
Max. number of luminaires per miniature circuit breaker C16	65
Power factor λ	> 0.90
Total harmonic distortion	< 20 %
Protection class	II
Operating mode	External LED driver
Dimming interface	DALI-2 / IoT

¹⁾ CRI80 versions of the Panel Comfort family are fulfilling the technical minimum requirements according to the German BEG subsidy program for energy efficient luminaires

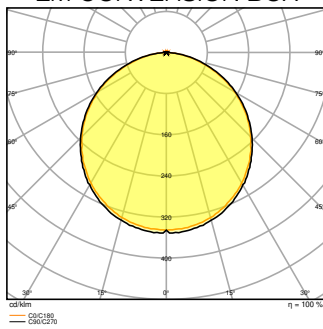
Photometrical data

Luminous flux	3640 lm ¹⁾
Luminous efficacy	130 lm/W ¹⁾
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	\leq 3 sdcn
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	< 0.4
Photobiological safety group acc. to EN62778	RG0
Beam angle	110 °

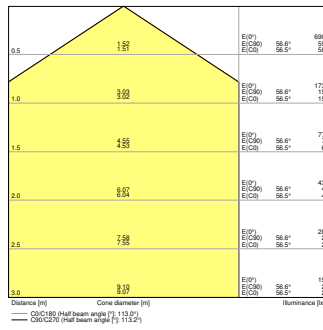
¹⁾ CRI80 versions of the Panel Comfort family are fulfilling the technical minimum requirements according to the German BEG subsidy program for energy efficient luminaires



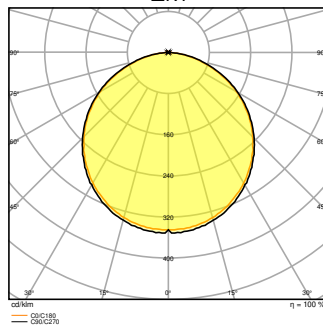
PL CMFT 600 P 28W 840 DALIVR
EM CONVERSION BOX



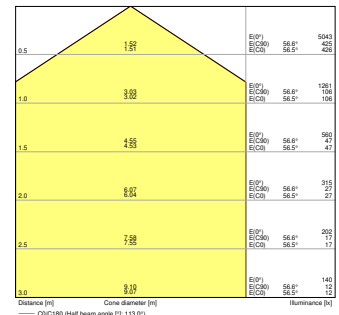
PL CMFT 600 P 28W 840 DALIVR
EM CONVERSION BOX



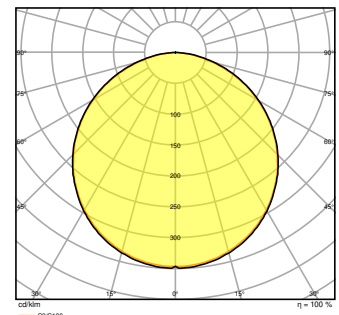
PL CMFT 600 P 28W 840 DALIVR
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PL CMFT 600 P 28W 840 DALIVR
EM



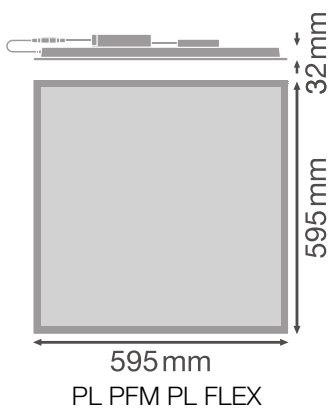
PL CMFT 600 P 28W 840 DALIVR



PL CMFT 600 P 28W 840 DALIVR

Dimensions & Weight

Length	595.00 mm
Width	595.00 mm
Height	32.00 mm
Product weight	1730.00 g



Materials & Colors

Product color	White
Housing color	White
Body material	Steel
Cover material	Polystyrene (PS)
Light emitting surface material	Polystyrene
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...+80 °C
Type of connection	Screwless terminal, 5-Pole (L, N, PE, DA+, DA-)
Type of protection	IP40/IP20
Protection class IK (shock resistance)	IK02
Dimmable	Yes
Type of dimming	DALI2
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
With light source	Yes

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	48000 h
Number of switching cycles	50000

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	620 mA
ECG - Output ripple current	< 5 %
ECG - Length	209,00 mm
ECG - Width	42.5 mm
ECG - Height	30 mm
Recommended control gear	OSRAM OTI DALI 50/220-240/1A4 NFC; Tridonic LCA 45W 500-1400mA one4all SC PRE





Emergency lighting


Wattage in emergency operation mode	5.5 W
Luminous flux in emergency operation mode	500 lm

Certificates & Standards

Standards	CE / CB / ENEC / UKCA / EAC / EPD
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
EPD	LEDV-00011-V01.01-EN
Replaceable light source (EPREL)	Not replaceable

Accessories Optional











Product image	Product name	EAN
	EM CONVERSION BOX	4058075237025
	PANEL 600 SURFACE MOUNT KIT H75	4058075472914
	PANEL 600 SURFACE MOUNT KIT H70 VAL	4058075402843
	PANEL RECESSED MOUNT CLIPS VAL 4x	4058075409859

















Product image	Product name	EAN
	PANEL Suspension Kit	4058075402928

EQUIPMENT / ACCESSORIES

- Accessories for several mounting options available
- Connector box with 5-pole terminal included
- Security rope for luminaire included
- Security brackets preinstalled
- External control gear included
- Suitable for use with separate Emergency Conversion Box

DOWNLOAD DATA

Documents and certificates	Document name
 User instruction / safety instructions	PL CMFT P DALIVR
 Legal information	LISO Insert Panel CMFT 600 P DALI and 625 P DALI
 Legal information	Informationstext 18 Abs 4 ElektroG
 Legal information	EM Insert PL COMFORT
 Declarations of conformity	CE Declaration PL CMFT DALI
 Declarations of conformity	CE Declaration PL CMFT DALIVR
 Declarations of conformity UKCA	UKCA Declaration PL CMFT DALI
 Declarations of conformity UKCA	UKCA Declaration PL CMFT DALIVR
 Declarations of conformity UKCA	PL COMFT DALIVR
 Declarations of conformity UKCA	PL COMFT P DALIVR

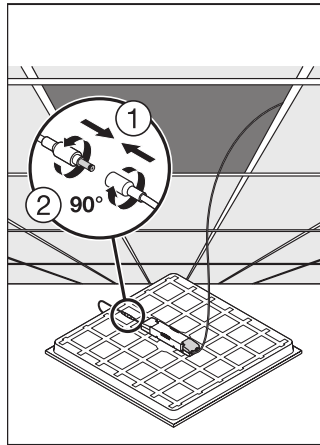
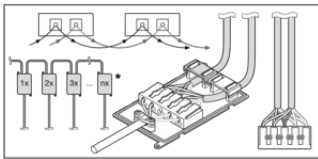
Photometric and lighting design files		Document name
	IES file (IES)	PL CMFT 600 P 28W 840 DALIVR
	LDT file (Eulumdat)	PL CMFT 600 P 28W 840 DALIVR
	ULD file (DIALux)	PL CMFT 600 P 28W 840 DALI
	ROLF file (RELUX)	PL CMFT 600 P 28W 840 DALI
	UGR file (UGR table)	PL CMFT 600 P 28W 840 DALIVR EM CONVERSION BOX
	UGR file (UGR table)	PL CMFT 600 P 28W 840 DALIVR EM
	UGR file (UGR table)	PL CMFT 600 P 28W 840 DALIVR
	Light distribution curve type cone	PL CMFT 600 P 28W 840 DALIVR EM CONVERSION BOX
	Light distribution curve type cone	PL CMFT 600 P 28W 840 DALIVR EM
	Light distribution curve type cone	PL CMFT 600 P 28W 840 DALIVR
	Light distribution curve type polar	PL CMFT 600 P 28W 840 DALIVR EM CONVERSION BOX
	Light distribution curve type polar	PL CMFT 600 P 28W 840 DALIVR EM
	Light distribution curve type polar	PL CMFT 600 P 28W 840 DALIVR
CAD/BIM files		Document name
	BIM Revit 3D	PL_CMFT
	CAD STEP 3D	PL_CMFT_600
Tender texts		Document name
	Tender documents	PANEL COMFORT 600 DALI 28W 840 DALIVR-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854014505	Folding box 1	52 mm x 622 mm x 694 mm	2182.00 g	22.45 dm ³
4099854014512	Shipping box 4	647 mm x 222 mm x 724 mm	10608.00 g	103.99 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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