

# PRODUCT DATASHEET

## PL CMFT 1200 P 33W 830 U19 PS

PANEL COMFORT 1200 UGR<19 PS | Rectangular recessed panel luminaires with power select (PS) feature and low glare, for 1200 x 300 mm ceiling systems



### 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 1200 x 300 mm

### Product benefits

- Highly versatile due to selectable power steps (Power Select - PS) on the driver
- 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
- Good glare reduction (UGR < 19)
- 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
- Emergency lighting possible with LEDVANCE Emergency Conversion Box
- 5 years guarantee

### Product features

- Extruded aluminum frame



- Polystyrene diffuser
- 5-pole terminal block, cable cross section up to 5 x 2.5 mm<sup>2</sup>
- Luminaire versions available with on-off or IoT-ready DALI-2 driver
- Lifetime (L80/B10): 70,000 h (at 25 °C)

## TECHNICAL DATA

### Electrical data

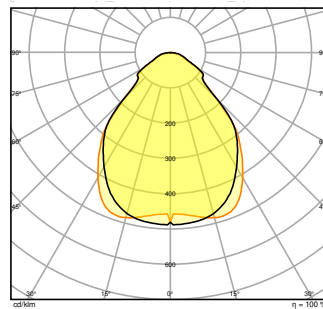
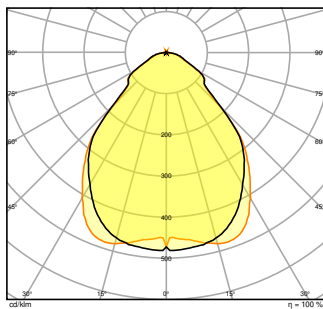
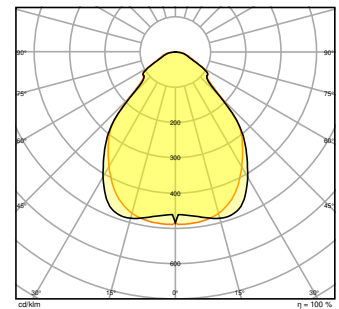
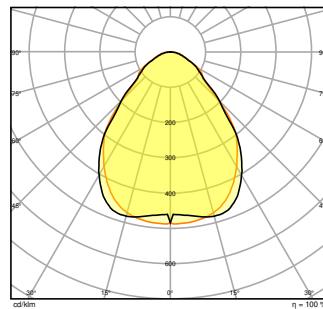
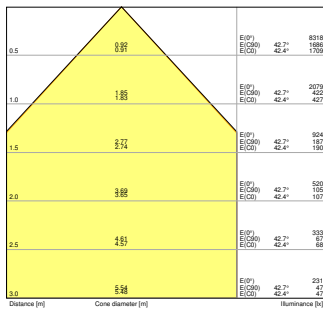
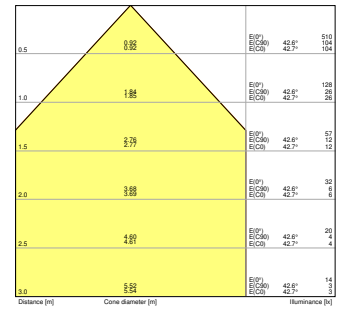
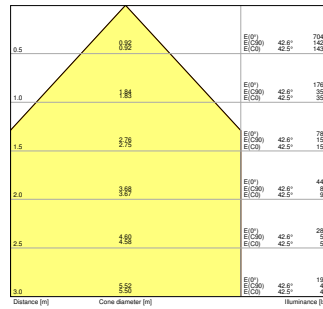
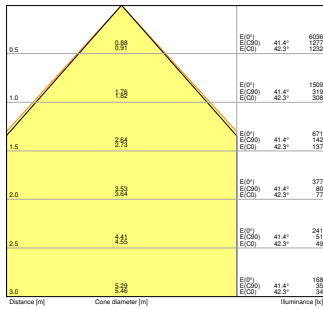
|   |                                  |
|---|----------------------------------|
| Nominal wattage   | 33 W / 28 W / 24 W <sup>1)</sup> |
| Nominal voltage   | 220...240 V                      |
| Mains frequency   | 50...60 Hz                       |
| Nominal current   | 150.000 mA                       |
| Inrush current  | 9 A                              |
| Inrush current time $T_{h50}$                               | 690 $\mu$ s                      |
| Max. number of luminaires per miniature circuit breaker B16 | 14                               |
| Max. number of luminaires per miniature circuit breaker C10 | 15                               |
| Max. number of luminaires per miniature circuit breaker C16 | 24                               |
| Power factor $\lambda$                                      | > 0.90                           |
| Total harmonic distortion                                   | < 20 %                           |
| Protection class  | II                               |
| Operating mode  | External LED driver              |

<sup>1)</sup> For possible options refer to lumen/power table image / 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

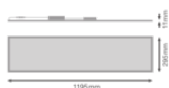
|  |   |
|--|---|
| Luminous flux                                | 4320 lm / 3640 lm / 3120 lm <sup>1)</sup> |
| Luminous efficacy                            | 130 lm/W <sup>1)</sup>                    |
| Color temperature                            | 3000 K                                    |
| Light color (designation)                    | Warm White                                |
| Color rendering index Ra                     | > 80                                      |
| Standard deviation of color matching         | $\leq$ 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                                       |
| Beam angle                                   | 90 °                                      |
| UGR  | < 19                                      |

<sup>1)</sup> For possible options refer to lumen/power table image / CRI80 versions of the Panel Comfort family are fulfilling the technical minimum requirements according to the German BEG subsidy program for energy efficient luminaires



### Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1195.00 mm |
| Width          | 295.00 mm  |
| Height         | 11.00 mm   |
| Product weight | 2940.00 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                               | No  |
| Mounting type                          | Recessed/Suspended/Surface                      |
| Mounting location                      | Ceiling   |
| Application environment                | Indoor  |
| Mounting length                        | 1185 mm   |
| Mounting width                         | 285 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  | 48000 h                |
| Number of switching cycles | 50000                  |

<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              | 750 mA |
| ECG - Output ripple current | < 5 %  |
| ECG - Length                | 143 mm |

|                          |   |
|--------------------------|---|
| ECG - Width              | 49 mm   |
| ECG - Height             | 30 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 / EPD |
| Luminaire with limited surface temperature, "D sign" | No                                |
| Ball shot safe                                       | No                                |
| EPD  | LEDV-00012-V01.01-EN              |

### 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
- Separate DC twist lock cable extension available
- Suitable for use with separate Emergency Conversion Box

### DOWNLOAD DATA

| Documents and certificates   |                                 |
|--|---------------------------------|
|  | User instruction                |
|  | Addon Technical Information     |
|  | Declarations Of Conformity CE   |
|  | Declarations Of Conformity UKCA |
|  | PEP Ecopassport                 |
| Photometric and lighting design files  |                                 |
|  | IES file (IES)                  |
|  | LDT file (Eulumdat)             |

Photometric and lighting design files



ULD file (DIALux)



ROLF file (RELUX)



UGR file (UGR table)



LDC typ cone



LDC typ polar

CAD/BIM files



BIM\_Revit\_3D



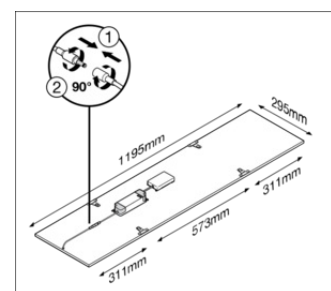
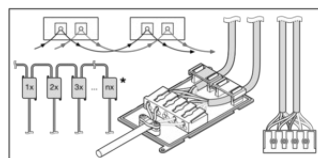
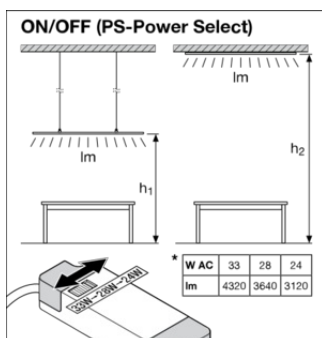
CAD\_STEP\_3D

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854004087 | Folding box<br>1             | 37 mm x 344 mm x 1,347 mm            | 3392.00 g    | 17.14 dm <sup>3</sup> |
| 4099854004094 | Shipping box<br>4            | 1,352 mm x 167 mm x 379 mm           | 14280.00 g   | 85.57 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)

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## DISCLAIMER

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