

# PRODUCT DATASHEET

## PL CMFT 1200 ZB P 33W 830

PANEL COMFORT 1200 ZIGBEE | Rectangular recessed panel luminaire, for 1200 x 300 mm ceiling systems and Zigbee 3.0 technology



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### 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

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### Product benefits

- Suitable luminaire for DIRECT EASY / VIVARES Zigbee and other Zigbee 3.0 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 Zigbee versions
- External driver for extended flexibility and easy installation
- Low flicker light thanks to special electronic control gear
- Suitable for emergency lighting

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### Product features

- IoT-ready luminaire with Zigbee 3.0 technology
- Suitable for central battery emergency installations acc. to EN 60598-2-22
- Extruded aluminum frame
- Polystyrene diffuser
- 5-pole terminal block, cable cross section up to 5 x 2.5 mm<sup>2</sup>
- Lifetime (L80/B10): 70,000 h (at 25 °C)

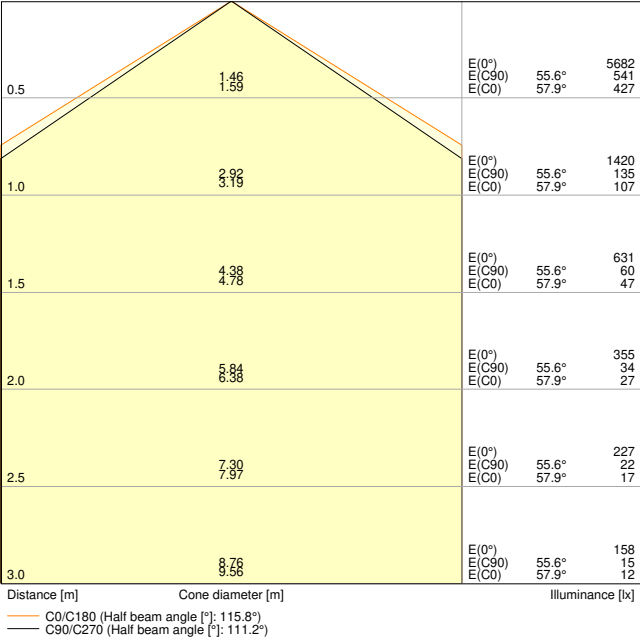
## TECHNICAL DATA

### Electrical data

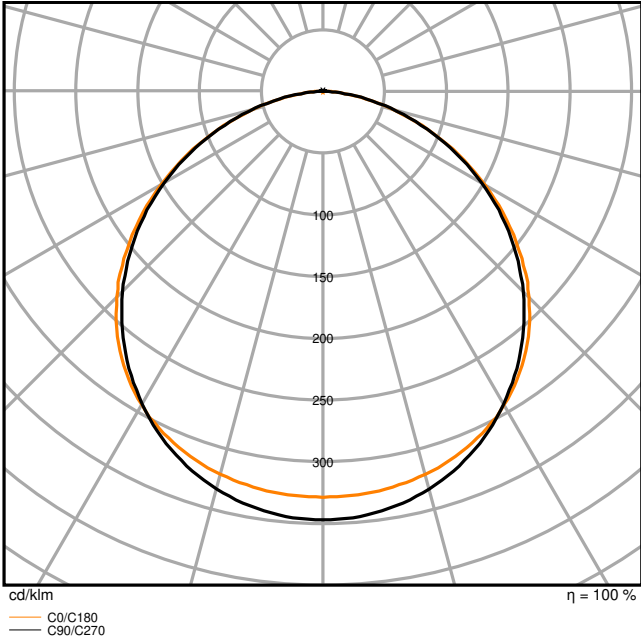
|                                                             |                     |
|-------------------------------------------------------------|---------------------|
| Nominal wattage                                             | 33.00 W             |
| Nominal voltage                                             | 220...240 V         |
| Mains frequency                                             | 0/50/60 Hz          |
| Nominal current                                             | 155.000 mA          |
| Inrush current                                              | 5.24 A              |
| Inrush current time $T_{h50}$                               | 47.2 $\mu$ s        |
| Max. number of luminaires per miniature circuit breaker B16 | 55                  |
| Max. number of luminaires per miniature circuit breaker C10 | 34                  |
| Max. number of luminaires per miniature circuit breaker C16 | 55                  |
| Power factor $\lambda$                                      | 0.95                |
| Total harmonic distortion                                   | < 7 %               |
| Protection class                                            | II                  |
| Surge capability (L-N)                                      | 1000 V              |
| Operating mode                                              | External LED driver |
| Dimming interface                                           | Zigbee Direct / IoT |

### Photometrical data

|                                              |                    |
|----------------------------------------------|--------------------|
| Luminous flux                                | 4320 lm            |
| Luminous efficacy                            | 130 lm/W           |
| 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                |
| Beam angle                                   | 110 °              |
| UGR                                          | < 22               |



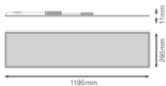
PL CMFT 1200 ZB P 33W 830 LEDV



PL CMFT 1200 ZB P 33W 830 LEDV

Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 1195.0 mm |
| Width          | 295.00 mm |
| Height         | 34.00 mm  |
| Product weight | 3000.00 g |



PL COMP 1200

Materials & Colors

|                                            |                  |
|--------------------------------------------|------------------|
| Product color                              | White            |
| Housing color                              | White            |
| RAL Color (most similar)                   | RAL 9003         |
| Body material                              | Aluminum         |
| 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, 3-POLE (L, N, PE)                                                                                                                |
| Type of protection                     | IP40/IP20                                                                                                                                            |
| Protection class IK (shock resistance) | IK02                                                                                                                                                 |
| Dimmable                               | Yes                                                                                                                                                  |
| Dimming range                          | 1...100 %                                                                                                                                            |
| IoT ready                              | Support of Zigbee Data Clusters: 0x0302 (Luminaire Asset Management), 0x0702 (Smart Energy: Metering), 0x0B04 (Electrical Measurement) <sup>1)</sup> |
| Mounting type                          | Recessed/Suspended/Surface                                                                                                                           |
| Mounting location                      | Ceiling                                                                                                                                              |
| Application environment                | Indoor                                                                                                                                               |
| Mounting length                        | 1175 mm                                                                                                                                              |
| Mounting width                         | 275 mm                                                                                                                                               |
| Mounting depth                         | 50 mm                                                                                                                                                |
| Mechanically adjustable                | No                                                                                                                                                   |
| With light source                      | Yes                                                                                                                                                  |
| Replaceable light source               | Yes                                                                                                                                                  |

<sup>1)</sup> 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 <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 70000 h <sup>1)</sup>  |
| Lifespan L80/B50 at 25 °C  | 70000 h                |
| 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 | 3.0 %    |
| ECG - Length                | 119,0 mm |
| ECG - Width                 | 45 mm    |
| ECG - Height                | 25 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       | 6.5 W  |
| Luminous flux in emergency operation mode | 600 lm |

Certificates & Standards

|                                                      |                      |
|------------------------------------------------------|----------------------|
| Standards                                            | CE / CB / TÜV / UKCA |
| Luminaire with limited surface temperature, "D sign" | No                   |
| Ball shot safe                                       | No                   |
| Replaceable light source (EPREL)                     | Not replaceable      |

Additional product data

|                |         |
|----------------|---------|
| Added function | VIVARES |
|----------------|---------|

Accessories Optional

| Product image                                                                       | Product name                          | EAN           |
|-------------------------------------------------------------------------------------|---------------------------------------|---------------|
|   | PANEL 1200 Surface Mount Kit          | 4058075108820 |
|  | PANEL 1200 X 300 SF MOUNT KIT H70 VAL | 4099854018497 |
|  | PANEL Suspension Kit                  | 4058075402928 |
|   | PANEL 1200x300 RECESSED MOUNT FRAME   | 4058075472976 |
|  | PANEL RECESSED MOUNT CLIPS VAL 4x     | 4058075409859 |
|  | EM CONVERSION BOX                     | 4058075237025 |
|   | PANEL 1200 CABLE EXT TWIST LOCK       | 4099854018510 |

## Components for light control

| Components Light Control                                                            |                                                     |               |
|-------------------------------------------------------------------------------------|-----------------------------------------------------|---------------|
| Product image                                                                       | Product name                                        | EAN           |
|    | MANUAL CONTROL UNIT SELECT DIRECT 100-240 TW RGB ZB | 4099854476334 |
|     | SENSOR DIRECT LS-PD-7 IR CI ZB                      | 4099854476358 |
|    | SWITCH KINETIC DIRECT 4B WT M ZB                    | 4099854589799 |
|    | SWITCH KINETIC DIRECT 4B WT G ZB                    | 4099854589812 |
|  | SWITCH KINETIC DIRECT 4B BK ZB                      | 4099854589836 |
|  | SWITCH KINETIC DIRECT 4B GR ZB                      | 4099854589850 |
|   | VIVARES ZB CONTROL                                  | 4058075427488 |
|   | VIVARES ZB L/O SENS 220-240                         | 4058075446182 |
|   | VIVARES ZB O SENS 220-240                           | 4058075544222 |
|   | VIVARES ZB COUPLER                                  | 4058075463806 |

| Product image                                                                     | Product name            | EAN           |
|-----------------------------------------------------------------------------------|-------------------------|---------------|
|  | VIVARES ZB SENS ADAPTER | 4058075650107 |

## 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

## Safety advice

- All electrical connections must be made by a qualified person.
- If the external flexible cable or cord of this luminaire is damaged, it shall be replaced by a special cord or cord exclusively available from the manufacturer or his service agent.
- Caution, risk of electric shock.
- The luminaires are not suitable for covering with thermally insulated material.

## DOWNLOAD DATA

|                                                                                    | Documents and certificates             | Document name                            |
|------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------|
|  | User instruction / safety instructions | User Instruction G11230685 PANEL COMFORT |
|  | Legal information                      | PL CMFT 1200 ZB P                        |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG       |
|  | Legal information                      | G11239899 Legal Insert                   |
|  | Legal information                      | Safety Insert G11207793                  |
|  | Legal information                      | App Download guide                       |
|  | Declarations of conformity             | CE certificate PL FLEX CMFT ZB           |
|  | Declarations of conformity UKCA        | UKCA certificate PL FLEX CMFT ZB         |
|  | EU Data Act                            | SMART ZigBee Lamps and Luminaires        |

| Photometric and lighting design files                                            |                                     | Document name                        |
|----------------------------------------------------------------------------------|-------------------------------------|--------------------------------------|
|  | IES file (IES)                      | PL CMFT 1200 ZB P 33W 830 LEDV       |
|  | LDT file (Eulumdat)                 | PL CMFT 1200 ZB P 33W 830 LEDV       |
|  | UGR file (UGR table)                | PL CMFT 1200 ZB P 33W 830 LEDV       |
|  | Light distribution curve type cone  | PL CMFT 1200 ZB P 33W 830 LEDV       |
|  | Light distribution curve type polar | PL CMFT 1200 ZB P 33W 830 LEDV       |
| CAD/BIM files                                                                    |                                     | Document name                        |
|  | BIM Revit 3D                        | PL_CMFT                              |
| Tender texts                                                                     |                                     | Document name                        |
|  | Tender documents                    | PANEL COMFORT 1200 ZIGBEE 33W 830-en |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854513206 | Folding box<br>1             | 37 mm x 344 mm x 1,347 mm            | 3452.00 g    | 17.14 dm <sup>3</sup> |
| 4099854513213 | Shipping box<br>4            | 1,377 mm x 167 mm x 379 mm           | 15328.00 g   | 87.15 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.

## References / Links

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

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