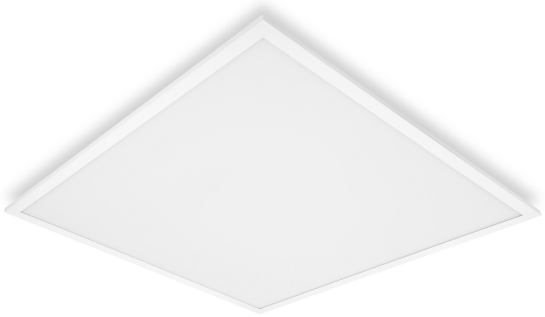
# PRODUCT DATASHEET
# PL CMFT 600 P 33W 840 ZBVR

PANEL COMFORT 600 ZIGBEE GEN 1 | Square recessed panel luminaire, for 600 x 600 mm ceiling systems and Zigbee 3.0 technology



PERFOR-
MANCE
CLASS

## 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 Zigbee 3.0 Light Management Systems
- Tool-free electrical connection due to push button connector
- Through-wiring possible with included connector box
- High color consistency with SDCM 3
- 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

- IoT-ready luminaire with Zigbee 3.0 technology
- Extruded aluminum frame
- Polystyrene diffuser
- 5-pole terminal block, cable cross section up to 5 x 2.5 $mm^2$
- Lifetime (L80/B10): 70,000 h (at 25 °C)


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# TECHNICAL DATA

## Electrical data

| | |
|---|---|
| Nominal wattage | 33.00 W [1)] |
| Nominal voltage | 220…240 V |
| Mains frequency | 50…60 Hz |
| Nominal current | 162.000 mA |
| Inrush current | 4.3 A |
| Inrush current time $T_{h50}$ | 440 µs |
| Max. number of luminaires per miniature circuit breaker B16 | 40 |
| Max. number of luminaires per miniature circuit breaker C10 | 41 |
| Max. number of luminaires per miniature circuit breaker C16 | 66 |
| Power factor λ | > 0.90 |
| Maximum total harmonic distortion | < 20 % |
| Protection class | II |
| Operating mode | External LED driver |
| Dimming interface | Zigbee 3.0 / IoT |

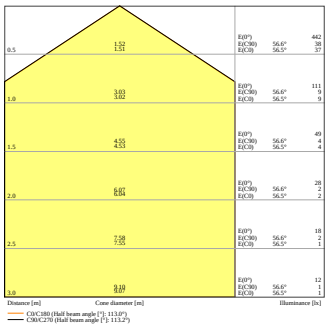
1) CRI80 versions of the Panel Comfort family are fulfilling the technical minimum requirements according to the German BEG subsidy program for energy efficient luminaires

## Photometrical data

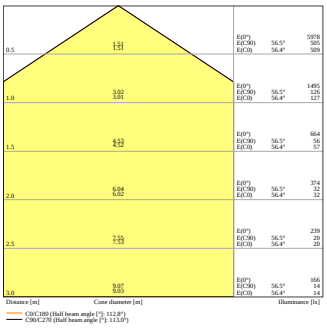
| | |
|---|---|
| Luminous flux | 4320 lm [1)] |
| Luminous efficacy | 130 lm/W [1)] |
| Color temperature | 4000 K |
| Light color (designation) | Cool White |
| Color rendering index Ra | > 80 |
| Standard deviation of color matching | ≤3 sdcm |
| Low flicker | Yes |
| Flickering metric (Pst LM) | <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

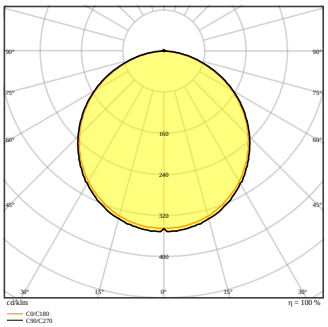

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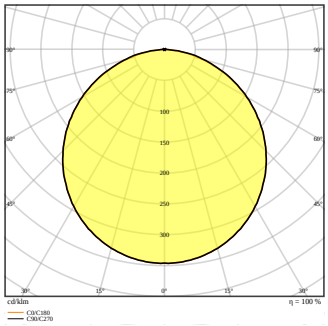
PL CMFT 600 P 33W 840 ZBVR EM CONVERSION BOX



PL CMFT 600 P 33W 840 ZBVR



PL CMFT 600 P 33W 840 ZBVR EM CONVERSION BOX

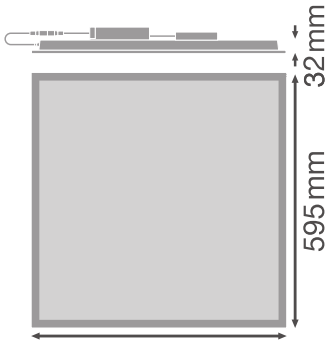


PL CMFT 600 P 33W 840 ZBVR

## Dimensions & Weight

| | |
|---|---|
| Length | 595.00 mm |
| Width | 595.00 mm |
| Height | 32.00 mm |
| Product weight | 1780.00 g |


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PL PFM PL FLEX

## Materials & Colors

| | |
|---|---|
| Product color | White |
| Housing color | White |
| RAL Color (most similar) | RAL 9003 |
| 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 | ZIGBEE |
| IoT ready | Support of DALI data type PART 251, 252, 253 [1)] |
| Mounting type | Recessed/Suspended/Surface |
| Mounting location | Ceiling |
| Application environment | Indoor |
| Mounting length | 575 mm |
| Mounting width | 575 mm |


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| | |
|---|---|
| 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 | 48000 h 1) |
| 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 | 730 mA |
| Output ripple current (100 Hz) | < 5 % |
| ECG - Length | 148.5 mm |
| ECG - Width | 75.5 mm |
| ECG - Height | 32 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 |

## Certificates & Standards

| | |
|---|---|
| Standards | CE / CB / ENEC / UKCA / EAC |
| 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


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| 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 |
|  | PANEL Suspension Kit | 4058075402928 |

## 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 |


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| Product image | Product name | EAN |
|---|---|---|
|  | 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 |

## 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 |
|---|---|---|
| PDF | User instruction / safety instructions | PL CMFT P ZBVR |
| PDF | Legal information | PL CMFT P ZBVR |
| PDF | Legal information | LISO Insert Panel CMFT 600 P and 625 P Zigbee |
| PDF | Legal information | Informationstext 18 Abs 4 ElektroG |


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| | Documents and certificates | Document name |
|---|---|---|
| PDF | Legal information | EM Insert PL COMFORT |
| PDF | Declarations of conformity | CE Declaration PL CMFT ZBVR |
| PDF | Declarations of conformity UKCA | UKCA Declaration PL CMFT ZBVR |
| PDF | Certificates | PL CMFT ZB |
| PDF | EU Data Act | SMART ZigBee Lamps and Luminaires |

| | Photometric and lighting design files | Document name |
|---|---|---|
| IES | IES file (IES) | PL CMFT 600 P 33W 840 ZBVR |
| LDT | LDT file (Eulumdat) | PL CMFT 600 P 33W 840 ZBVR |
| ULD | ULD file (DIALux) | PL CMFT 600 P |
| ROLF | ROLF file (RELUX) | PL CMFT 600 P |
| | UGR file (UGR table) | PL CMFT 600 P 33W 840 ZBVR EM CONVERSION BOX |
| | UGR file (UGR table) | PL CMFT 600 P 33W 840 ZBVR |
| | Light distribution curve type cone | PL CMFT 600 P 33W 840 ZBVR EM CONVERSION BOX |
| | Light distribution curve type cone | PL CMFT 600 P 33W 840 ZBVR |
| | Light distribution curve type polar | PL CMFT 600 P 33W 840 ZBVR EM CONVERSION BOX |
| | Light distribution curve type polar | PL CMFT 600 P 33W 840 ZBVR |

| | CAD/BIM files | Document name |
|---|---|---|
| RFA | BIM Revit 3D | PL_CMFT |
| STEP | CAD STEP 3D | PL_CMFT_600 |


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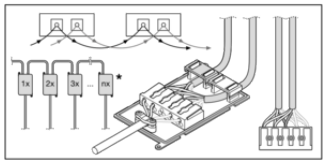
| | Tender texts | Document name |
|---|---|---|
| | Tender documents | PANEL COMFORT 600 ZIGBEE 33W 840 ZBVR-EN |

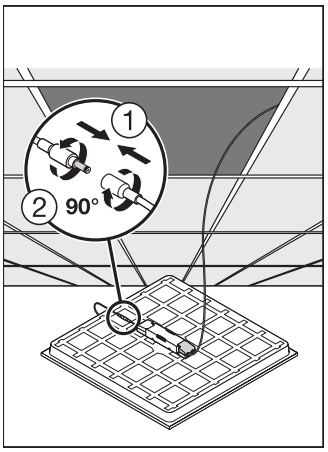
## LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4099854015076 | Folding box<br>1 | 52 mm x 622 mm x 649 mm | 2232.00 g | 20.99 $dm^3$ |
| 4099854015083 | Shipping box<br>4 | 647 mm x 222 mm x 724 mm | 10808.00 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

## DISCLAIMER

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