

# PRODUCT DATASHEET

## PL PFM 600 36 W 940 UGR19

PANEL PERFORMANCE 600 UGR<19 | Square recessed panel luminaires, tool-free installation and low glare, for 600 x 600 mm ceiling systems



### Areas of application

- Direct replacement for 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

- 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 120 lm/W
- Good glare reduction (UGR < 19)
- Extended services such as energy monitoring and remote maintenance possible with DALI versions
- Comfortable light and high color consistency
- External driver for extended flexibility and easy installation
- Low flicker light thanks to special electronic control gear
- 5 years guarantee

### Product features

- Extruded aluminum frame
- Polystyrene diffuser
- 3-pole terminal block, cable cross section up to 3 x 2.5 mm<sup>2</sup> (25 W and 30 W versions)



- 5-pole terminal block, cable cross section up to 5 x 2.5 mm<sup>2</sup> (36 W versions and DALI types)
- Luminaire versions with IoT-ready DALI-2 driver or IoT Zigbee 3.0 technology available
- Versions available with CRI 90
- Lifetime (L80/B10): up to 60,000 h (at 25 °C)

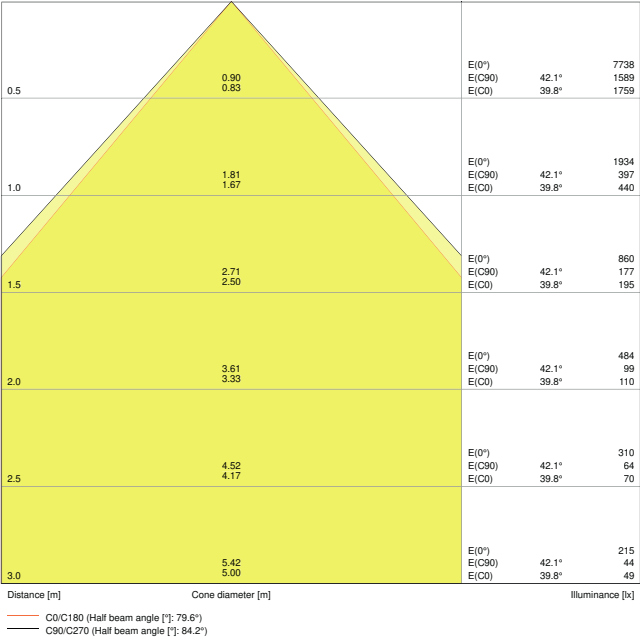
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**TECHNICAL DATA****Electrical data**

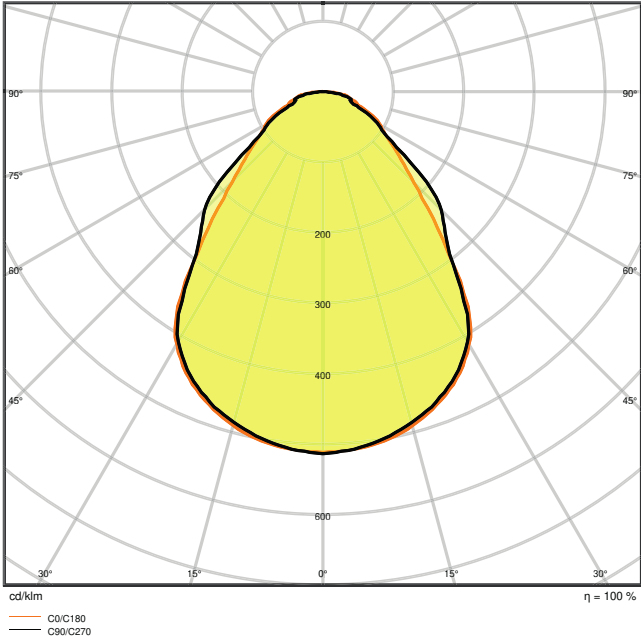
|                                                             |                     |
|-------------------------------------------------------------|---------------------|
| Nominal wattage                                             | 36.00 W             |
| Nominal voltage                                             | 220...240 V         |
| Mains frequency                                             | 50...60 Hz          |
| Nominal current                                             | 160 mA              |
| Inrush current                                              | 25 A                |
| Inrush current time $T_{h50}$                               | 200 $\mu$ s         |
| Max. number of luminaires per miniature circuit breaker B16 | 13                  |
| Max. number of luminaires per miniature circuit breaker C10 | 12                  |
| Max. number of luminaires per miniature circuit breaker C16 | 19                  |
| Power factor $\lambda$                                      | > 0.95              |
| Total harmonic distortion                                   | < 20 %              |
| Protection class                                            | II                  |
| Operating mode                                              | External LED driver |

**Photometrical data**

|                                              |            |
|----------------------------------------------|------------|
| Luminous flux                                | 3750 lm    |
| Luminous efficacy                            | 105 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                           | -          |
| Low flicker                                  | Yes        |
| Flickering metric (Pst LM)                   | -          |
| Stroboscope effect metric (SVM)              | -          |
| Photobiological safety group acc. to EN62778 | RG0        |
| Photobiological safety group acc. to EN62471 | RG0        |
| Beam angle                                   | 90 °       |
| UGR                                          | < 19       |



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Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 595.00 mm |
| Width          | 595.00 mm |
| Height         | 32.00 mm  |
| Product weight | 1900.00 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               |
| Type of connection                     | Screwless terminal         |
| Type of protection                     | IP40/IP20                  |
| Protection class IK (shock resistance) | IK02                       |
| Dimmable                               | No                         |
| Mounting type                          | Recessed/Suspended/Surface |
| Mounting location                      | Ceiling / Wall             |
| Application environment                | Indoor                     |
| Mounting length                        | 575 mm                     |
| Mounting width                         | 575 mm                     |
| Mounting depth                         | 80,0 mm                    |
| With light source                      | Yes                        |
| Replaceable light source               | No                         |

### Lifespan

|                            |                        |
|----------------------------|------------------------|
| Lifespan L70/B50 at 25 °C  | 100000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 60000 h <sup>1)</sup>  |
| Lifespan L80/B50 at 25 °C  | 60000 h                |
| Lifespan L90/B10 at 25 °C  | 35000 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              | 760 mA                            |
| ECG - Output ripple current | < 5 %                             |
| Recommended control gear    | OSRAM OTI DALI 50/220-240/1A4 NFC |

### Certificates & Standards

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

## EQUIPMENT / ACCESSORIES

- Accessories for several mounting options available
- Connector box with 3-pole or 5-pole terminal included
- Security rope for luminaire included
- Security brackets included
- External control gear included
- Not suitable for use with Emergency Conversion Box

## DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name              |
|------------------------------------------------------------------------------------|----------------------------------------|----------------------------|
|    | User instruction / safety instructions | PANEL PERFORMANCE 600/625  |
|   | Legal information                      | LSI PL PFM AND PL PFM DALI |
|  | Legal information                      | LSI PL PFM AND PL PFM DALI |
|  | Declarations of conformity             | PL PFM 600 UGR19           |
| Photometric and lighting design files                                              |                                        | Document name              |
|  | IES file (IES)                         | PL PFM 600 36W 940 UGR19   |
|  | LDT file (Eulumdat)                    | PL PFM 600 36W 940 UGR19   |
|  | ULD file (DIALux)                      | PL PFM 600 36W-940 UGR19   |
|  | ROLF file (RELUX)                      | PL PFM 600                 |
|  | UGR file (UGR table)                   | PL PFM 600 36W 940 UGR19   |
|  | Light distribution curve type cone     | PL PFM 600 36W 940 UGR19   |
|  | Light distribution curve type polar    | PL PFM 600 36W 940 UGR19   |

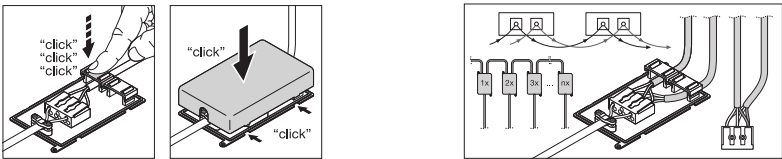
| CAD/BIM files                                                                     |              | Document name   |
|-----------------------------------------------------------------------------------|--------------|-----------------|
|  | BIM Revit 3D | PL PFM gen3     |
|  | CAD STEP 3D  | PL PFM Gen3 600 |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075521964 | Folding box<br>1             | 52 mm x 622 mm x 694 mm              | 2385.00 g    | 22.45 dm <sup>3</sup> |
| 4058075521971 | Shipping box<br>4            | 640 mm x 220 mm x 710 mm             | 10835.00 g   | 99.97 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)

DISCLAIMER

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