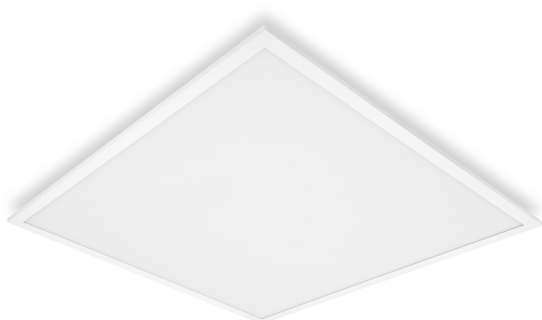


# PRODUCT DATASHEET

## PL CMFT 600 P 36W 930 940 U19 DALIVR CS CRI90

PANEL COMFORT 600 UGR<19 DALI CS CRI90 | Square recessed panel luminaires with CRI90, CCT select (CS) feature and low glare, 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
- Schools, public buildings
- 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
- High performance with CRI90 and up to 118 lm/W
- Highly versatile due to selectable CCT (CCT Select - CS)
- High color consistency with SDCM 3
- Good glare reduction (UGR < 19)
- Through-wiring possible with included connector box
- External driver for extended flexibility and easy installation
- Low flicker light thanks to special electronic control gear
- Extended services such as energy monitoring and remote maintenance possible with DALI versions
- 5 years guarantee

### Product features

- IoT-ready luminaire with DALI-2 technology
- 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): up to 60,000 h (at 25 °C)

## TECHNICAL DATA

### Electrical data

|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 36.00 W <sup>1)</sup> |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 0/50/60 Hz            |
| Nominal current                                             | 165.000 mA            |
| Inrush current                                              | 12 A                  |
| Inrush current time T <sub>h50</sub>                        | 200 µs                |
| Max. number of luminaires per miniature circuit breaker B16 | 20                    |
| Max. number of luminaires per miniature circuit breaker C10 | 21                    |
| Max. number of luminaires per miniature circuit breaker C16 | 33                    |
| Power factor $\lambda$                                      | > 0.90                |
| Total harmonic distortion                                   | < 20 %                |
| Protection class                                            | II                    |
| Operating mode                                              | External LED driver   |
| Dimming interface                                           | DALI-2 / IoT          |

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

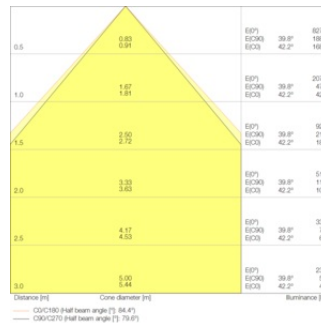
### Photometrical data

|                                              |                               |
|----------------------------------------------|-------------------------------|
| Luminous flux                                | 4200 lm <sup>1)</sup>         |
| Luminous efficacy                            | 118 lm/W <sup>1)</sup>        |
| Color temperature                            | 3000 K / 4000 K <sup>1)</sup> |
| Light color (designation)                    | Warm White / Cool White       |
| Color rendering index Ra                     | ≥90                           |
| Standard deviation of color matching         | 3 sdcn                        |
| Luminous intensity                           | - cd                          |
| Low flicker                                  | Yes                           |
| Flickering metric (Pst LM)                   | <1                            |
| Stroboscope effect metric (SVM)              | < 0.4                         |
| Photobiological safety group acc. to EN62778 | RG0                           |
| Photobiological safety group acc. to EN62471 | RG0                           |
| Beam angle                                   | 90 °                          |
| UGR                                          | < 19                          |

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



PL CMFT 600 36W 930 DALI EM mode



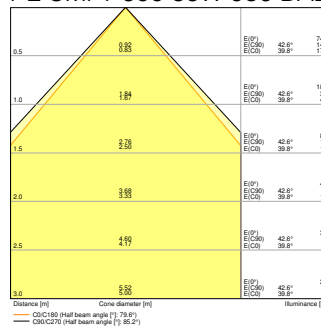
PL CMFT 600 36W 930 DALI



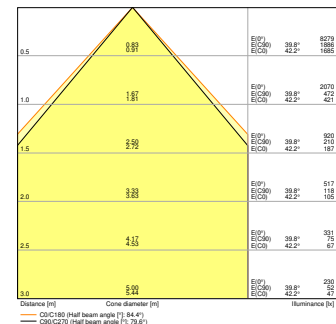
PL CMFT 600 36W 940 DALI EM mode



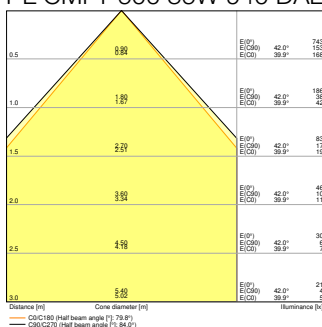
PL CMFT 600 36W 940 DALI



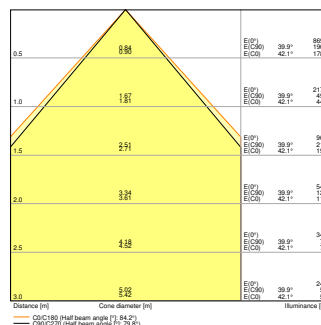
PL CMFT 600 36W 930 DALI EM mode



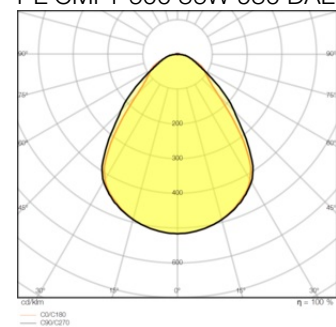
PL CMFT 600 36W 930 DALI



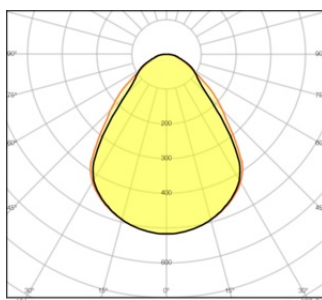
PL CMFT 600 36W 940 DALI EM mode



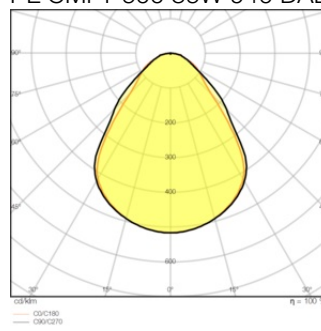
PL CMFT 600 36W 940 DALI



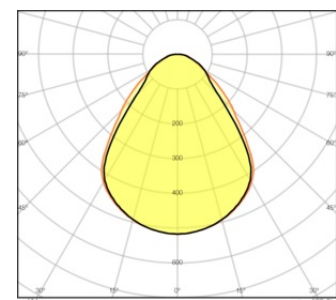
PL CMFT 600 36W 930 DALI EM mode



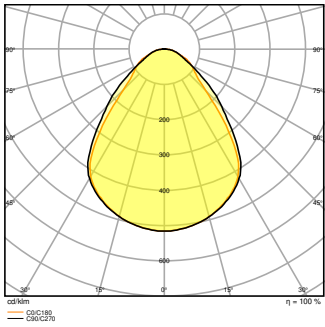
PL CMFT 600 36W 930 DALI



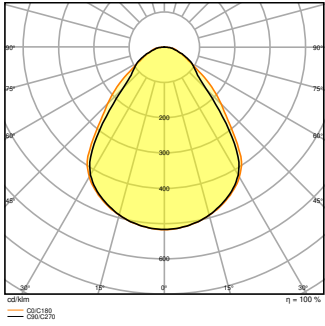
PL CMFT 600 36W 940 DALI EM mode



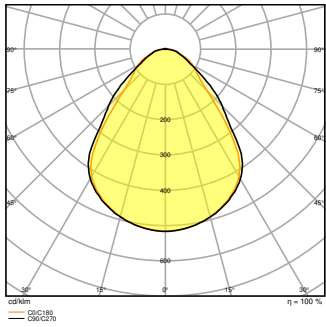
PL CMFT 600 36W 940 DALI



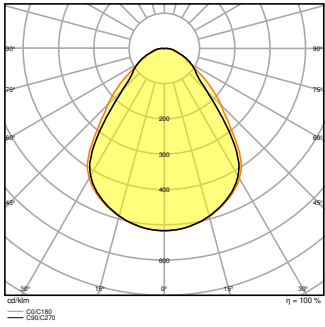
PL CMFT 600 36W 930 DALI EM mode



PL CMFT 600 36W 930 DALI



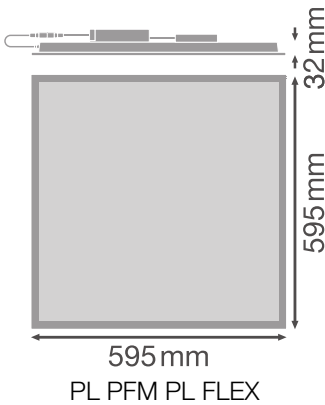
PL CMFT 600 36W 940 DALI EM mode



PL CMFT 600 36W 940 DALI

Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 595.00 mm |
| Width          | 595.00 mm |
| Height         | 32.00 mm  |
| Product weight | 2050.00 g |



Materials & Colors

|               |       |
|---------------|-------|
| Product color | White |
| Housing color | White |
| Body material | Steel |

|                                            |                  |
|--------------------------------------------|------------------|
| Cover material                             | Polystyrene (PS) |
| 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, 5-Pole (L, N, PE, DA+, DA-)            |
| Type of protection                     | IP40~IP20                                                  |
| Protection class IK (shock resistance) | IK02                                                       |
| Dimmable                               | Yes                                                        |
| Type of dimming                        | DALI                                                       |
| IoT ready                              | Support of DALI data type PART 251, 252, 253 <sup>1)</sup> |
| Mounting type                          | Surface/Recessed                                           |
| 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                                                         |

<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  | 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              | 1100 mA |
| ECG - Output ripple current | 10 %    |

### Emergency lighting

|                                           |                                                                                 |
|-------------------------------------------|---------------------------------------------------------------------------------|
| Type of Emergency Lighting (EL)           | EL certified driver (0Hz / DC operation) for central battery operation included |
| Wattage in emergency operation mode       | 3,0 W                                                                           |
| Luminous flux in emergency operation mode | 360 lm                                                                          |

## Certificates &amp; Standards

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

## Additional product data

|                |                        |
|----------------|------------------------|
| Added function | MULTI SELECT / VIVARES |
|----------------|------------------------|

## EQUIPMENT / ACCESSORIES

- Accessories for several mounting options available
- Separate switch preinstalled to choose preferred CCT during installation
- Connector box with 5-pole terminal included
- Security rope for luminaire included
- Security brackets included
- External control gear included

## Upgrade and replacement components

| Components Light Control                                                            |                                                         |               |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|---------------|
| Product image                                                                       | Product name                                            | EAN           |
|  | MANUAL CONTROL UNIT SELECT DALI-2                       | 4058075837485 |
|  | MANUAL CONTROL UNIT SELECT DALI-2 TW                    | 4058075837508 |
|  | MANUAL CONTROL UNIT SELECT DALI-2 EXCHANGEABLE COVER TW | 4058075837522 |
|  | MANUAL CONTROL UNIT TOUCH DALI-2 TW                     | 4058075837560 |
|  | MANUAL CONTROL UNIT TOUCH DALI-2                        | 4058075837546 |
|   | PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW                 | 4058075837584 |

| Product image                                                                      | Product name                                                   | EAN           |
|------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------|
|    | SURFACE MOUNT FRAME                                            | 4058075843561 |
|    | PUSHBUTTON COUPLER DALI-2                                      | 4058075837607 |
|    | FLEX CONTROL UNIT IOT DALI-2 HCL TW                            | 4058075841888 |
|   | FLEX CONTROL UNIT FLUSH MOUNT DALI-2 TW                        | 4058075841901 |
|    | FLEX CONTROL UNIT DALI-2 TW                                    | 4058075843844 |
|  | FLEX CONTROL UNIT REAL-TIME-CLOCK DALI-2 HCL TW                | 4058075841925 |
|  | SENSOR DALI-2 LIGHT/PRESENCE-6 INFRARED CEILING INTEGRATION    | 4058075837621 |
|  | SENSOR DALI-2 LIGHT/PRESENCE-8 INFRARED CEILING INTEGRATION    | 4058075841949 |
|  | SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION | 4058075843868 |
|  | SENSOR DALI-2 LIGHT/PRESENCE-24 INFRARED CEILING MOUNTING      | 4058075843882 |
|  | SENSOR CEILING MOUNTING KIT                                    | 4058075843905 |

## DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                                   |
|------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------|
|    | User instruction / safety instructions | PANEL COMFORT CRI90 600 / 625                   |
|    | Legal information                      | LSI PL CMFT                                     |
|    | Legal information                      | PL CMFT U19                                     |
|    | Legal information                      | Informationstext 18 Abs 4 ElektroG              |
|    | Declarations of conformity             | CE Declaration of Conformity PL CMFT U19 DALI   |
|    | Declarations of conformity UKCA        | UKCA Declaration of Conformity PL CMFT U19 DALI |
|    | Declarations of conformity UKCA        | PANEL DALI                                      |
|    | EU Data Act                            | DALI LED Driver and Luminaires                  |
| Photometric and lighting design files                                              |                                        | Document name                                   |
|  | IES file (IES)                         | PL CMFT 600 36W 930 DALI                        |
|  | IES file (IES)                         | PL CMFT 600 36W 940 DALI                        |
|  | LDT file (Eulumdat)                    | PL CMFT 600 36W 930 DALI                        |
|  | LDT file (Eulumdat)                    | PL CMFT 600 36W 940 DALI EM mode                |
|  | ULD file (DIALux)                      | PL CMFT 600 P 36W                               |
|  | ROLF file (RELUX)                      | PL CMFT 600 P                                   |
|  | UGR file (UGR table)                   | PL CMFT 600 36W 930 DALI EM mode                |
|  | UGR file (UGR table)                   | PL CMFT 600 36W 930 DALI                        |
|  | UGR file (UGR table)                   | PL CMFT 600 36W 940 DALI EM mode                |
|  | UGR file (UGR table)                   | PL CMFT 600 36W 940 DALI                        |
|  | Light distribution curve type cone     | PL CMFT 600 36W 930 DALI EM mode                |

| Photometric and lighting design files                                               |                                     | Document name                                          |
|-------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------------|
|    | Light distribution curve type cone  | PL CMFT 600 36W 930 DALI                               |
|    | Light distribution curve type cone  | PL CMFT 600 36W 940 DALI EM mode                       |
|    | Light distribution curve type cone  | PL CMFT 600 36W 940 DALI                               |
|    | Light distribution curve type cone  | PL CMFT 600 36W 930 DALI EM mode                       |
|    | Light distribution curve type cone  | PL CMFT 600 36W 930 DALI                               |
|    | Light distribution curve type cone  | PL CMFT 600 36W 940 DALI EM mode                       |
|    | Light distribution curve type cone  | PL CMFT 600 36W 940 DALI                               |
|    | Light distribution curve type polar | PL CMFT 600 36W 930 DALI EM mode                       |
|   | Light distribution curve type polar | PL CMFT 600 36W 930 DALI                               |
|  | Light distribution curve type polar | PL CMFT 600 36W 940 DALI EM mode                       |
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|  | Light distribution curve type polar | PL CMFT 600 36W 930 DALI                               |
|  | Light distribution curve type polar | PL CMFT 600 36W 940 DALI EM mode                       |
|  | Light distribution curve type polar | PL CMFT 600 36W 940 DALI                               |
| 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 UGR19 DALI 36W 930 940 U19 DALIVR-EN |

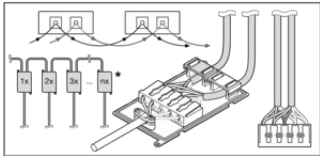
## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075694507 | Folding box<br>1             | 52 mm x 622 mm x 694 mm              | 2535.00 g    | 22.45 dm <sup>3</sup> |
| 4058075694514 | Shipping box<br>4            | 640 mm x 220 mm x 710 mm             | 11435.00 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



|                        | T <sub>p</sub> (Kohling) / W <sub>AC</sub> | lm      |         | lm/W     |          |
|------------------------|--------------------------------------------|---------|---------|----------|----------|
|                        |                                            | 29.5W   | 36W     | 29.5W    | 36W      |
| PANEL CMFT<br>36W CPS  | 4000K                                      | 3600 lm | 4200 lm | 122 lm/W | 118 lm/W |
|                        | 3000K                                      | 3400 lm | 4000 lm | 115 lm/W | 112 lm/W |
| PANEL CMFT<br>36W DALI | 4000K                                      | -       | 4200 lm | -        | 118 lm/W |
|                        | 3000K                                      | -       | 4000 lm | -        | 112 lm/W |

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.