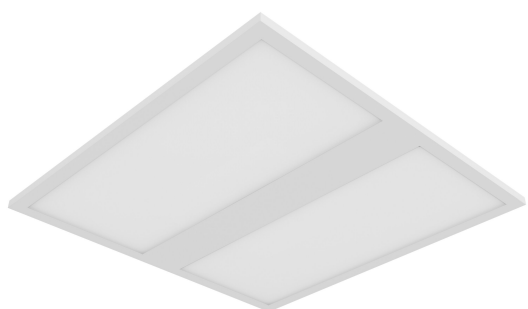


# PRODUCT DATASHEET

## PL PROT 600 P 36W 840 U19 DALIVR

PANEL PROTECT 600 UGR<19 DALI | Square recessed panel luminaires with IP54 protection, DALI-2 IoT technology and low glare, 600 x 600 mm



### Areas of application

- Direct replacement for luminaires with fluorescent lamps
- Suitable for recessed ceiling systems with grid size of 600 x 600 mm
- Hospitals
- Laboratories
- Kitchens, canteens, workspaces

### Product benefits

- Suitable for use in applications where a higher IP and IK protection is needed
- High lumen output with up to 5040 lm
- Tool-free electrical connection due to push button connector
- Through-wiring possible with included connector box
- Energy savings thanks to system efficacy of up to 140lm/W
- High color consistency with SDCM 3
- Extended services such as energy monitoring and remote maintenance possible with DALI versions
- Good glare reduction ( $UGR \leq 19$ )
- Extended heat resistance of the diffuser with up to 850° C
- Suitable for battery emergency installations acc. to EN 60598-2-22
- Decentral emergency lighting possible with separately available LEDVANCE Emergency Conversion Box
- 5 years guarantee

### Product features



- Type of protection: IP54 (frontside), IP20 (backside)
- Steel housing with notch in the backside for the driver to allow maximum height of 34 mm
- Polycarbonate (PC) diffuser
- 5-pole terminal block, cable cross section up to 5 x 2.5 mm<sup>2</sup>
- Lifetime (L90/B10): 50,000 h (at 25° C)
- Panel can be customized with optical sensors on individual request

## TECHNICAL DATA

### Electrical data

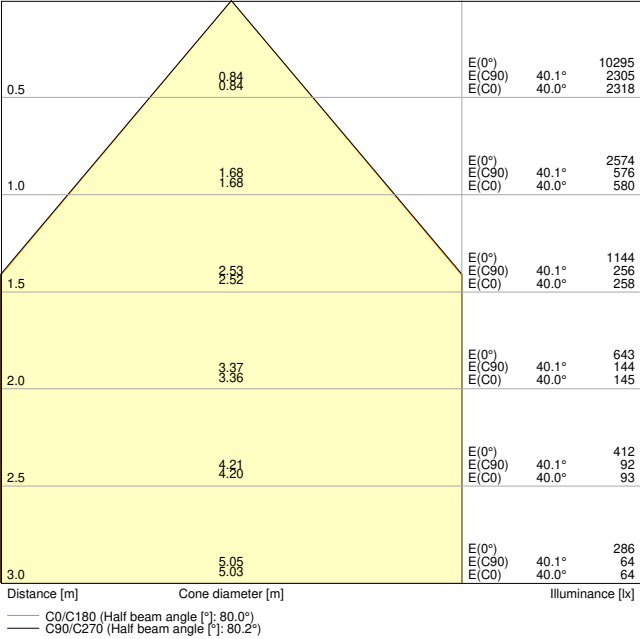
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 36.00 W <sup>1)</sup> |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 0/50/60 Hz            |
| Nominal current                                             | 165.000 mA            |
| Inrush current                                              | 0.2 A                 |
| Inrush current time T <sub>h50</sub>                        | 450 µs                |
| Max. number of luminaires per miniature circuit breaker B16 | 23                    |
| Max. number of luminaires per miniature circuit breaker C10 | 16                    |
| Max. number of luminaires per miniature circuit breaker C16 | 26                    |
| 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> The Panel Protect family is fulfilling the technical minimum requirements according to the German BEG subsidy program for energy efficient luminaires

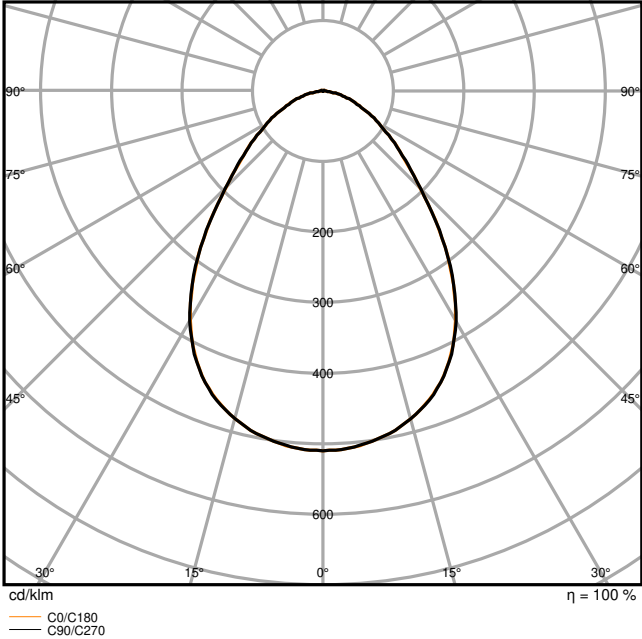
### Photometrical data

|                                              |                        |
|----------------------------------------------|------------------------|
| Luminous flux                                | 5040 lm <sup>1)</sup>  |
| Luminous efficacy                            | 140 lm/W <sup>1)</sup> |
| Color temperature                            | 4000 K                 |
| Light color (designation)                    | Cool White             |
| Color rendering index Ra                     | > 80                   |
| Standard deviation of color matching         | 3 sdcn                 |
| 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> The Panel Protect family is fulfilling the technical minimum requirements according to the German BEG subsidy program for energy efficient luminaires



PL PROT 600 P 36W 840 U19 DALIVR 5040lm



PL PROT 600 P 36W 840 U19 DALIVR 5040lm

Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 595.00 mm |
| Width          | 595.00 mm |
| Height         | 34.00 mm  |
| Product weight | 2330.00 g |



Materials & Colors

|                                            |                    |
|--------------------------------------------|--------------------|
| Product color                              | White              |
| Housing color                              | White              |
| RAL Color (most similar)                   | RAL 9003           |
| Body material                              | Steel              |
| Cover material                             | Polycarbonate (PC) |
| Light emitting surface material            | Polycarbonate (PC) |
| Glow Wire Test according to IEC 60695-2-12 | 850 °C             |
| Mercury content                            | 0.0 mg             |

Application & Mounting

|                                        |                                                 |
|----------------------------------------|-------------------------------------------------|
| Ambient temperature range              | -10...+50 °C                                    |
| Temperature range at storage           | -20...+70 °C                                    |
| Type of connection                     | Screwless terminal, 5-Pole (L, N, PE, DA+, DA-) |
| Type of protection                     | IP54/IP20                                       |
| Protection class IK (shock resistance) | IK06                                            |
| Dimmable                               | Yes                                             |
| Type of dimming                        | DALI2                                           |

|                          |                                                            |
|--------------------------|------------------------------------------------------------|
| IoT ready                | Support of DALI data type PART 251, 252, 253 <sup>1)</sup> |
| Mounting type            | Recessed/Suspended/Surface                                 |
| Mounting location        | Ceiling                                                    |
| Application environment  | Indoor                                                     |
| Mounting length          | 575 mm                                                     |
| Mounting width           | 575 mm                                                     |
| Mounting depth           | 50,0 mm                                                    |
| 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 <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  | 50000 h                |
| Number of switching cycles | 100000                 |

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              | 800 mA                                                                         |
| ECG - Output ripple current | < 5 %                                                                          |
| ECG - Length                | 145 mm                                                                         |
| ECG - Width                 | 75,0 mm                                                                        |
| ECG - Height                | 25,0 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 / EL certified driver (0Hz / DC operation) for central battery operation included |
| Wattage in emergency operation mode       | 6.5 W                                                                                                                                                                    |
| Luminous flux in emergency operation mode | 720 lm                                                                                                                                                                   |

### Certificates & Standards

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

### Additional product data

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

### EQUIPMENT / ACCESSORIES

- Accessories for several mounting options available
- Connector box with 5-pole terminal pre-installed
- Security rope for luminaire included
- Security brackets preinstalled
- External control gear included
- Suitable for use with separate Emergency Conversion Box
- Special mounting frame with an overall height of only 50 mm available separately

### 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 |

| Product image                                                                      | Product name                                                   | EAN           |
|------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------|
|    | PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW                        | 4058075837584 |
|    | 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 |

| Product image                                                                     | Product name                | EAN           |
|-----------------------------------------------------------------------------------|-----------------------------|---------------|
|  | SENSOR CEILING MOUNTING KIT | 4058075843905 |

DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                              |
|------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|
|    | User instruction / safety instructions | UI PL PROT 600 P 36W and PL PROT 625 P 36W |
|    | Legal information                      | Legal Insert PL PROT P                     |
|    | Legal information                      | LSI PL PROT P 36W                          |
|    | Legal information                      | Informationstext 18 Abs 4 ElektroG         |
|   | Legal information                      | EM Insert PL PROTECT                       |
|  | Declarations of conformity             | CE Declaration PL PROT                     |
|  | Declarations of conformity UKCA        | UKCA Declaration PL PROT                   |
|  | EU Data Act                            | DALI LED Driver and Luminaires             |
| Photometric and lighting design files                                              |                                        | Document name                              |
|  | IES file (IES)                         | PL PROT 600 P 36W 840 U19 DALIVR 5040lm    |
|  | LDT file (Eulumdat)                    | PL PROT 600 P 36W 840 U19 DALIVR 5040lm    |
|  | ULD file (DIALux)                      | PL PROT 600 P 36W 840 U19 DALI VR          |
|  | ROLF file (RELUX)                      | PL PROT 600 P 36W 840 U19 DALI             |
|  | UGR file (UGR table)                   | PL PROT 600 P 36W 840 U19 DALIVR 5040lm    |
|  | Light distribution curve type cone     | PL PROT 600 P 36W 840 U19 DALIVR 5040lm    |
|  | Light distribution curve type polar    | PL PROT 600 P 36W 840 U19 DALIVR 5040lm    |

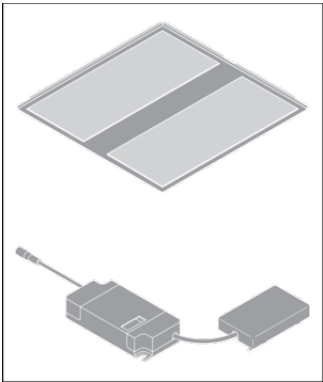
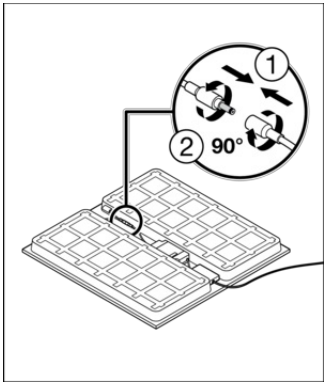
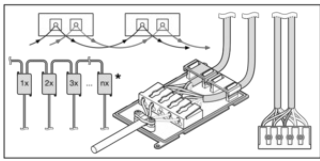
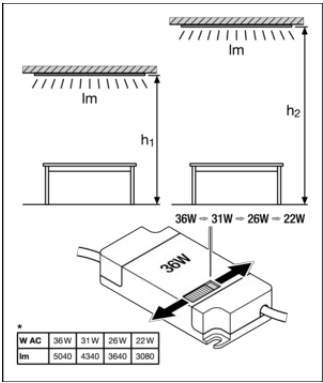
| CAD/BIM files                                                                     |                  | Document name                                      |
|-----------------------------------------------------------------------------------|------------------|----------------------------------------------------|
|  | BIM Revit 3D     | PL PROT                                            |
|  | CAD STEP 3D      | PL PROT 600                                        |
| Tender texts                                                                      |                  | Document name                                      |
|  | Tender documents | PANEL PROTECT 600 UGR19 DALI 36W 840 U19 DALIVR-EN |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854083327 | Folding box<br>1             | 41 mm x 602 mm x 602 mm              | 2718.00 g    | 14.86 dm <sup>3</sup> |
| 4099854083334 | Shipping box<br>5            | 620 mm x 229 mm x 631 mm             | 14672.00 g   | 89.59 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



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## References / Links

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

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