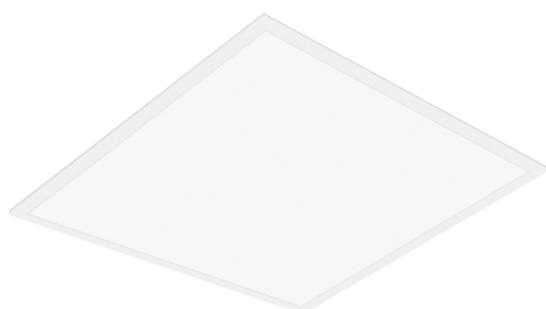




# PRODUCT DATASHEET

## PL ECO 600 E 36W 840 U19

PANEL ECO 600 UGR<19 | Square recessed panel luminaires with low glare, 600x600 mm



### 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

- Good glare reduction (UGR < 19)
- Low flicker light thanks to special electronic control gear
- Energy savings thanks to system efficacy of 100 lm/W
- External driver for extended flexibility and easy installation
- 3 years guarantee

### Product features

- Lifetime (L70/B50): up to 50,000 h (at 25 °C)



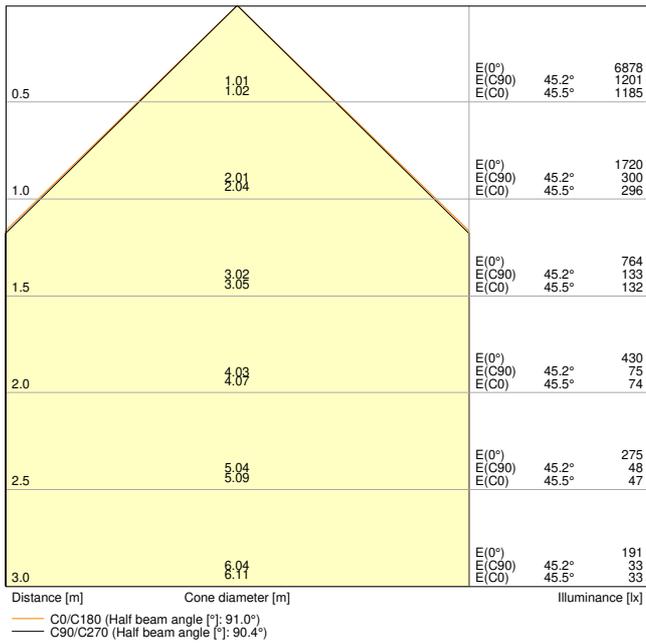
## TECHNICAL DATA

### Electrical data

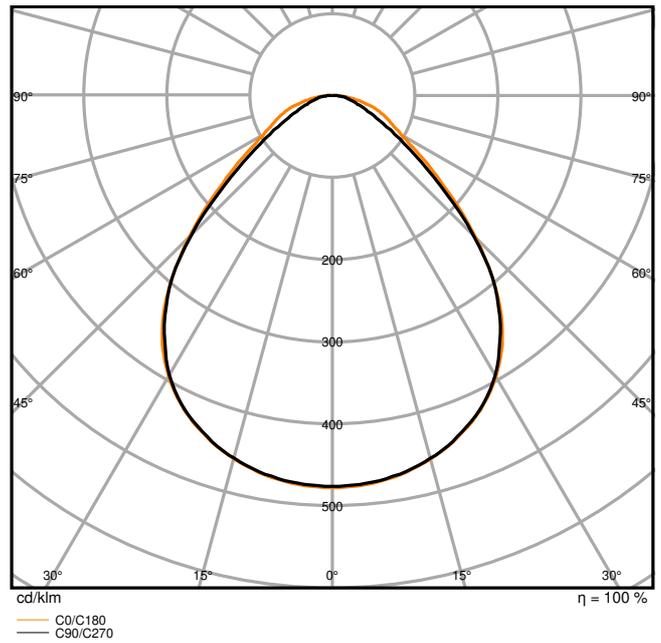
|   |                     |
|---|---------------------|
| Nominal wattage   | 36.00 W             |
| Nominal voltage   | 220...240 V         |
| Mains frequency   | 50 Hz               |
| Nominal current   | 170.000 mA          |
| Inrush current  | 0.17 A              |
| Inrush current time $T_{h50}$                               | 600 $\mu$ s         |
| Max. number of luminaires per miniature circuit breaker B16 | 12                  |
| Max. number of luminaires per miniature circuit breaker C10 | 13                  |
| Max. number of luminaires per miniature circuit breaker C16 | 21                  |
| Power factor $\lambda$                                      | > 0.90              |
| Total harmonic distortion                                   | < 20 %              |
| Protection class  | II                  |
| Operating mode  | External LED driver |

### Photometrical data

|  |                      |
|--|----------------------|
| Luminous flux                                | 3600 lm              |
| Luminous efficacy                            | 100 lm/W             |
| Color temperature                            | 4000 K               |
| Light color (designation)                    | Cool White           |
| Color rendering index Ra                     | > 80                 |
| Standard deviation of color matching         | < 5 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                  |
| Photobiological safety group acc. to EN62471 | RG0                  |
| Beam angle                                   | 90 °                 |
| UGR  | < 19                 |



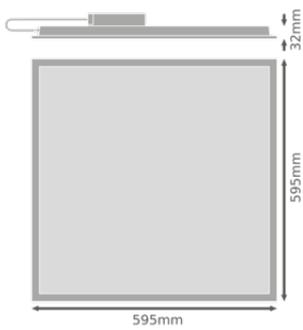
PL ECO 600 E 36W 840 U19



PL ECO 600 E 36W 840 U19

Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 595.00 mm |
| Width          | 595.00 mm |
| Height         | 32.00 mm  |
| Product weight | 1585.00 g |



PL ECO

Materials & Colors

|  |                  |
|--|------------------|
| Product color                              | White            |
| Housing color                              | White            |
| 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              | 0...+40 °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                               | No  |
| Mounting type                          | Recessed  |
| Mounting location                      | Ceiling   |
| Application environment                | Indoor  |
| Mounting length                        | 575 mm  |
| Mounting width                         | 575 mm  |
| Mounting depth                         | 50 mm   |
| Adjustable                             | No  |
| LED module replaceable                 | Not replaceable                                 |
| With light source                      | Yes   |

### Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 50000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 30000 h <sup>1)</sup> |
| Lifespan L90/B10 at 25 °C  | 10000 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              | 770 mA   |
| ECG - Output ripple current | < 5 %    |
| ECG - Length                | 102,0 mm |

|              |         |
|--------------|---------|
| ECG - Width  | 40 mm   |
| ECG - Height | 28,0 mm |

### Certificates & Standards

|  |                      |
|--|----------------------|
| Standards  | CE / CB / UKCA / EAC |
| Luminaire with limited surface temperature, "D sign" | No                   |
| Ball shot safe                                       | No                   |

### EQUIPMENT / ACCESSORIES

- Accessories for several mounting options available
- External control gear included

### DOWNLOAD DATA

| Documents and certificates   |                                 | Document name                      |
|--|---------------------------------|------------------------------------|
|    | User Instruction                | PL ECO 600                         |
|   | Legal information               | LSI PL ECO 36W                     |
|  | Legal information               | Legal insert PL ECO 36W            |
|  | Legal information               | Informationstext 18 Abs 4 ElektroG |
|  | Declarations of conformity      | CE Declaration PL ECO              |
|  | Declarations Of Conformity UKCA | UKCA Declaration PL ECO            |

| Photometric and lighting design files  |                      | Document name            |
|--|----------------------|--------------------------|
|  | IES file (IES)       | PL ECO 600 E 36W 840 U19 |
|  | LDT file (Eulumdat)  | PL ECO 600 E 36W 840 U19 |
|  | UGR file (UGR table) | PL ECO 600 E 36W 840 U19 |
|  | LDC typ cone         | PL ECO 600 E 36W 840 U19 |
|  | LDC typ polar        | PL ECO 600 E 36W 840 U19 |

**LOGISTICAL DATA**

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854187315 | Folding box<br>1             | 36 mm x 600 mm x 645 mm              | 1940.00 g    | 13.93 dm <sup>3</sup> |
| 4099854187322 | Shipping box<br>6            | 620 mm x 235 mm x 673 mm             | 12570.00 g   | 98.06 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)

**DISCLAIMER**

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