

# PRODUCT DATASHEET

## PL FLEX 600 ZB S 30W 830 U19

PANEL FLEX 600 UGR<19 ZIGBEE | Square recessed panel luminaire with low glare, for 600 x 600 mm ceiling systems and Zigbee 3.0 technology



### Areas of application

- Suitable for recessed ceiling systems with grid size of 600 x 600 mm
- Direct replacement for recessed luminaires with fluorescent lamps
- Offices, conference rooms
- Reception areas, foyers, corridors, elevators

### Product benefits

- Suitable luminaire for DIRECT EASY / VIVARES Zigbee and other Zigbee 3.0 Light Management Systems
- High lumen output with up to 4860 lm
- Energy savings thanks to high system efficacy: up to 160 lm/W
- High color consistency with SDCM 3
- Good glare reduction (UGR < 19)
- External driver for extended flexibility and easy installation
- Low flicker light thanks to special electronic control gear
- Tool-free electrical connection due to push button connector
- Through-wiring possible with included connector box
- Decentral emergency lighting possible with separately available LEDVANCE Emergency Conversion Box
- Extended services such as energy monitoring and remote maintenance possible with Zigbee versions

### Product features

- IoT-ready luminaire with Zigbee 3.0 technology
- Suitable for central battery emergency installations acc. to EN 60598-2-22
- Lifetime (L80/B10): 100,000 h (at 25 °C), (L90/B10): 50,000 h (at 25 °C)
- 5-pole terminal block, cable cross section up to 5 x 2.5 mm<sup>2</sup>
- Extruded aluminum frame, metal housing
- Polystyrene diffuser

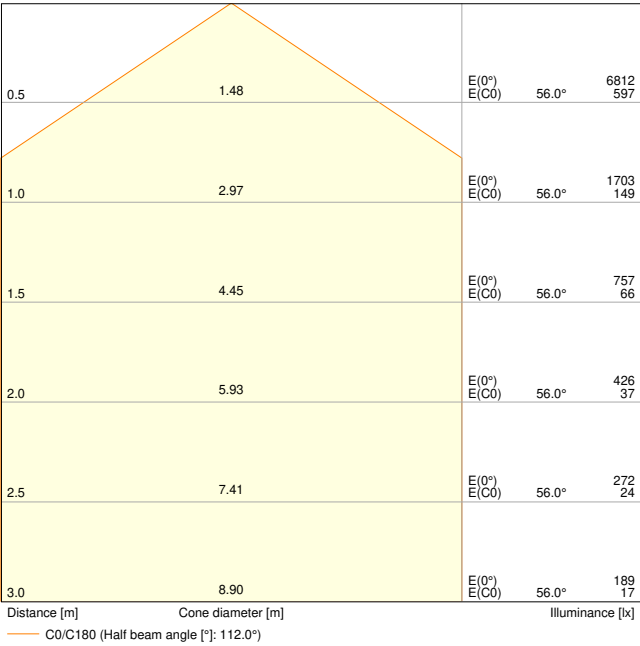
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**TECHNICAL DATA****Electrical data**

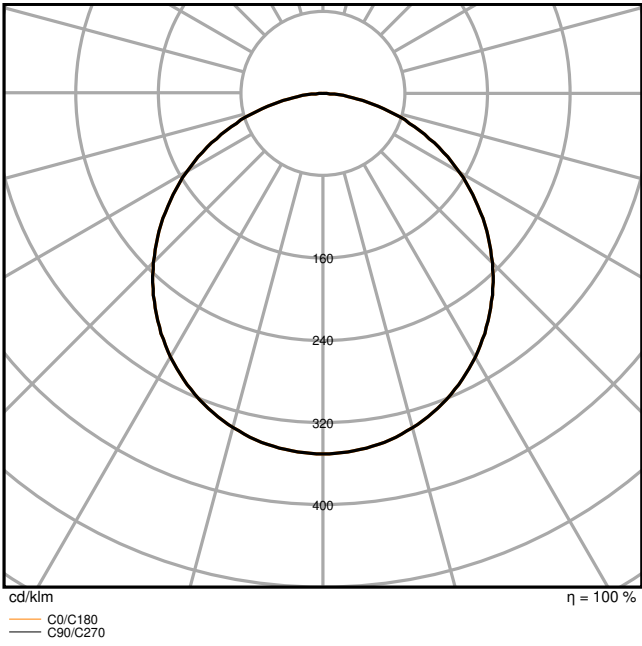
|                                                             |                     |
|-------------------------------------------------------------|---------------------|
| Nominal wattage                                             | 30.00 W             |
| Nominal voltage                                             | 220...240 V         |
| Mains frequency                                             | 0/50/60 Hz          |
| Nominal current                                             | 140.000 mA          |
| Inrush current                                              | 5.24 A              |
| Inrush current time $T_{h50}$                               | 47.2 $\mu$ s        |
| Max. number of luminaires per miniature circuit breaker B16 | 55                  |
| Max. number of luminaires per miniature circuit breaker C10 | 34                  |
| Max. number of luminaires per miniature circuit breaker C16 | 55                  |
| Power factor $\lambda$                                      | 0.95                |
| Total harmonic distortion                                   | < 7 %               |
| Protection class                                            | II                  |
| Surge capability (L-N)                                      | 1000 V              |
| Operating mode                                              | External LED driver |
| Dimming interface                                           | Zigbee 3.0 / IoT    |

**Photometrical data**

|                                              |                    |
|----------------------------------------------|--------------------|
| Luminous flux                                | 4800 lm            |
| Luminous efficacy                            | 155 lm/W           |
| Color temperature                            | 3000 K             |
| Light color (designation)                    | Warm White         |
| Color rendering index Ra                     | > 80               |
| Standard deviation of color matching         | 3 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                |
| Beam angle                                   | 90 °               |
| UGR                                          | < 19               |



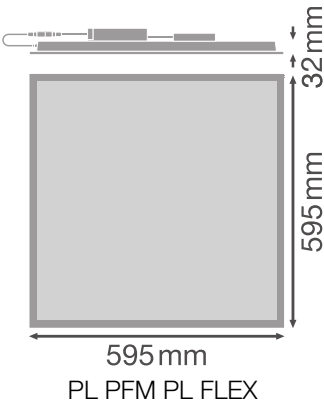
PL FLEX 600 ZB S 30W 830 U19



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Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 595.00 mm |
| Width          | 595.00 mm |
| Height         | 32.00 mm  |
| Product weight | 1850.00 g |



Materials & Colors

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

|                                            |                  |
|--------------------------------------------|------------------|
| 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                                                                                                                                         |
| Temperature range at storage           | -20...+80 °C                                                                                                                                         |
| Type of connection                     | Screwless terminal, 3-POLE (L, N, PE)                                                                                                                |
| Type of protection                     | IP40/IP20                                                                                                                                            |
| Protection class IK (shock resistance) | IK02                                                                                                                                                 |
| Dimmable                               | Yes                                                                                                                                                  |
| IoT ready                              | Support of Zigbee Data Clusters: 0x0302 (Luminaire Asset Management), 0x0702 (Smart Energy: Metering), 0x0B04 (Electrical Measurement) <sup>1)</sup> |
| Mounting type                          | Recessed/Suspended/Surface                                                                                                                           |
| Mounting location                      | Ceiling                                                                                                                                              |
| Application environment                | Indoor                                                                                                                                               |
| Mounting length                        | 575 mm                                                                                                                                               |
| Mounting width                         | 595 mm                                                                                                                                               |
| Mounting depth                         | 50 mm                                                                                                                                                |
| Adjustable                             | No                                                                                                                                                   |
| With light source                      | Yes                                                                                                                                                  |
| Replaceable light source               | Yes                                                                                                                                                  |

<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  | 100000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 100000 h               |
| Lifespan L90/B10 at 25 °C  | 59000 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              | 700 mA   |
| ECG - Output ripple current | 3.0 %    |
| ECG - Length                | 119,0 mm |
| ECG - Width                 | 45 mm    |
| ECG - Height                | 25 mm    |

## Emergency lighting

|                                           |                                                                                 |
|-------------------------------------------|---------------------------------------------------------------------------------|
| Type of Emergency Lighting (EL)           | EL certified driver (0Hz / DC operation) for central battery operation included |
| Type of emergency operation test          | None                                                                            |
| Wattage in emergency operation mode       | 6 W                                                                             |
| Luminous flux in emergency operation mode | 700 lm                                                                          |

## Certificates &amp; Standards

|                                                      |                      |
|------------------------------------------------------|----------------------|
| Standards                                            | CE / CB / TÜV / UKCA |
| Luminaire with limited surface temperature, "D sign" | No                   |
| Ball shot safe                                       | No                   |
| Replaceable light source (EPREL)                     | By the end consumer  |

## Additional product data

|                |                               |
|----------------|-------------------------------|
| Product remark | Available from September 2025 |
| Added function | VIVARES                       |

## Accessories Optional

| Product image                                                                       | Product name                        | EAN           |
|-------------------------------------------------------------------------------------|-------------------------------------|---------------|
|  | PANEL 600 SURFACE MOUNT KIT H75     | 4058075472914 |
|  | PANEL 600 SURFACE MOUNT KIT H70 VAL | 4058075402843 |
|  | PANEL Suspension Kit                | 4058075402928 |
|  | PANEL RECESSED MOUNT CLIPS VAL 4x   | 4058075409859 |
|  | EM CONVERSION BOX                   | 4058075237025 |

| Product image                                                                     | Product name                        | EAN           |
|-----------------------------------------------------------------------------------|-------------------------------------|---------------|
|  | DR DS-P- 30/220-240/700 PL FLEX 600 | 4058075843684 |

## 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
- Serviceable luminaire: Upgrades and replacements available

## Upgrade and replacement components

| 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 |
|  | SWITCH KINETIC DIRECT 4B BK ZB                      | 4099854589836 |
|  | SWITCH KINETIC DIRECT 4B GR ZB                      | 4099854589850 |
|   | VIVARES ZB CONTROL                                  | 4058075427488 |

| Product image                                                                     | Product name                | EAN           |
|-----------------------------------------------------------------------------------|-----------------------------|---------------|
|   | VIVARES ZB L/O SENS 220-240 | 4058075446182 |
|   | VIVARES ZB O SENS 220-240   | 4058075544222 |
|   | VIVARES ZB COUPLER          | 4058075463806 |
|  | VIVARES ZB SENS ADAPTER     | 4058075650107 |

### Safety advice

- All electrical connections must be made by a qualified person.
- If the external flexible cable or cord of this luminaire is damaged, it shall be replaced by a special cord or cord exclusively available from the manufacturer or his service agent.
- Caution, risk of electric shock.
- The luminaires are not suitable for covering with thermally insulated material.

### DOWNLOAD DATA

| Documents and certificates                                                             | Document name                                                       |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------|
|  PDF | User instruction / safety instructions<br>PL FLEX 600 625 ZB        |
|  PDF | Legal information<br>PL FLEX ZB P                                   |
|  PDF | Legal information<br>LUM PANELS_LI                                  |
|  PDF | Legal information<br>LUM PANELS_SI                                  |
|  PDF | Legal information<br>App Download guide                             |
|  PDF | Declarations of conformity<br>CE certificate PL FLEX CMFT ZB        |
|  PDF | Declarations of conformity UKCA<br>UKCA certificate PL FLEX CMFT ZB |
|  PDF | EU Data Act<br>SMART ZigBee Lamps and Luminaires                    |

| Photometric and lighting design files                                            |                                     | Document name                |
|----------------------------------------------------------------------------------|-------------------------------------|------------------------------|
|  | IES file (IES)                      | PL FLEX 600 ZB S 30W 830 U19 |
|  | LDT file (Eulumdat)                 | PL FLEX 600 ZB S 30W 830 U19 |
|  | UGR file (UGR table)                | PL FLEX 600 ZB S 30W 830 U19 |
|  | Light distribution curve type cone  | PL FLEX 600 ZB S 30W 830 U19 |
|  | Light distribution curve type polar | PL FLEX 600 ZB S 30W 830 U19 |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854513596 | Folding box<br>1             | 35 mm x 685 mm x 600 mm              | 2305.00 g    | 14.39 dm <sup>3</sup> |
| 4099854513602 | Shipping box<br>4            | 705 mm x 160 mm x 625 mm             | 10302.00 g   | 70.50 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)

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