

# PRODUCT DATASHEET

## PL FLEX 600 DALI S 30W 840

PANEL FLEX 600 DALI | Square recessed panel luminaire, for 600 x 600 mm ceiling systems and DALI-2 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 VIVARES and other DALI-2 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
- 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 DALI versions
- 7 years guarantee

### Product features

- IoT-ready luminaire with DALI-2 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

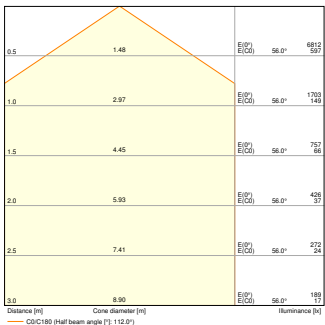
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**TECHNICAL DATA****Electrical data**

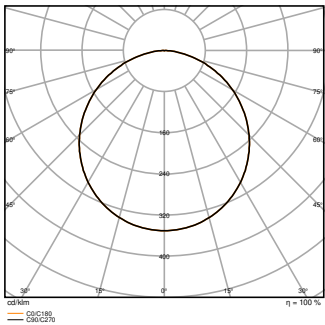
|                                                             |                     |
|-------------------------------------------------------------|---------------------|
| Nominal wattage                                             | 30.00 W             |
| Nominal voltage                                             | 220...240 V         |
| Mains frequency                                             | 0/50/60 Hz          |
| Nominal current                                             | 140.000 mA          |
| Inrush current                                              | 4.4 A               |
| Inrush current time $T_{h50}$                               | 440 $\mu$ s         |
| Max. number of luminaires per miniature circuit breaker B16 | 40                  |
| Max. number of luminaires per miniature circuit breaker C10 | 41                  |
| Max. number of luminaires per miniature circuit breaker C16 | 66                  |
| Power factor $\lambda$                                      | > 0.90              |
| Total harmonic distortion                                   | < 15 %              |
| Protection class                                            | II                  |
| Operating mode                                              | External LED driver |
| Dimming interface                                           | DALI-2 / IoT        |

**Photometrical data**

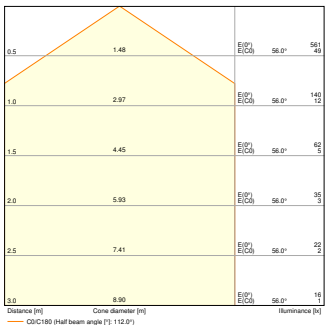
|                                              |                           |
|----------------------------------------------|---------------------------|
| Luminous flux                                | 4860 lm                   |
| Luminous efficacy                            | 160 lm/W                  |
| Color temperature                            | 4000 K                    |
| Light color (designation)                    | Cool White                |
| Color rendering index Ra                     | > 80                      |
| Standard deviation of color matching         | $\leq 3$ 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                                   | 110 °                     |



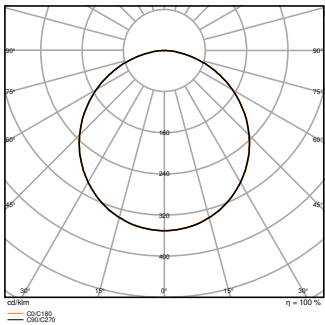
PL FLEX 600 DALI S 30W 4000K  
4860lm



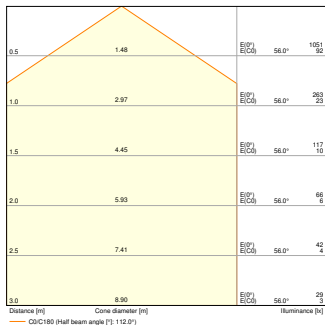
PL FLEX 600 DALI S 30W 4000K  
4860lm



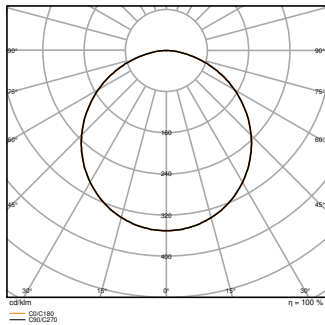
PL FLEX 600 DALI S 3W 4000K  
400lm EM BOX



PL FLEX 600 DALI S 3W 4000K  
400lm EM BOX



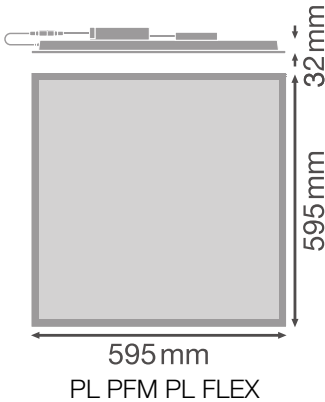
PL FLEX 600 DALI S 6W 4000K  
750lm EM



PL FLEX 600 DALI S 6W 4000K  
750lm EM

Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 595.00 mm |
| Width          | 595.00 mm |
| Height         | 32.00 mm  |
| Product weight | 1500.00 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, 5-Pole (L, N, PE, DA+, DA-)            |
| Type of protection                     | IP40/IP20                                                  |
| Protection class IK (shock resistance) | IK02                                                       |
| 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                        | 595.00 mm                                                  |
| Mounting width                         | 595.00 mm                                                  |
| Mounting depth                         | 50 mm                                                      |
| Adjustable                             | No                                                         |
| 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  | 100000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 100000 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              | 700 mA                        |
| ECG - Output ripple current | < 5 %                         |
| ECG - Length                | 110 mm                        |
| ECG - Width                 | 75 mm                         |
| ECG - Height                | 25 mm                         |
| Recommended control gear    | OTi DALI 50/220...240/1A4 NFC |

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 W                                                                                                                                                                      |
| Luminous flux in emergency operation mode | 700 lm                                                                                                                                                                   |

Certificates & Standards

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

Additional product data

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

Accessories Optional

| Product image                                                                       | Product name                        | EAN           |
|-------------------------------------------------------------------------------------|-------------------------------------|---------------|
|  | DR DS-P- 30/220-240/700 PL FLEX 600 | 4058075843684 |
|  | EM CONVERSION BOX                   | 4058075237025 |

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

## 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
- Suitable for use with separate Emergency Conversion Box
- Serviceable luminaire: Upgrades and replacements available

## 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 |

| Product image                                                                       | Product name                                                | EAN           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------|
|    | 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 |
|     | 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 |

| Product image                                                                     | Product name                                                   | EAN           |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------|---------------|
|   | 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 FLEX                          |
|  | Legal information                      | LSI PANEL FLEX                      |
|  | Legal information                      | Legal Insert PL FLEX                |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG  |
|  | Legal information                      | EM Insert PL FLEX                   |
|  | Declarations of conformity             | PL FLEX                             |
|  | Declarations of conformity UKCA        | PL FLEX                             |
|  | EU Data Act                            | DALI LED Driver and Luminaires      |
| Photometric and lighting design files                                              |                                        | Document name                       |
|  | IES file (IES)                         | PL FLEX 600 DALI S 30W 4000K 4860lm |

| Photometric and lighting design files                                               |                                     | Document name                            |
|-------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------|
|    | IES files (IES, additional)         | PL FLEX 600 DALI S 3W 4000K 400lm EM BOX |
|    | IES files (IES, additional)         | PL FLEX 600 DALI S 6W 4000K 750lm EM     |
|    | LDT file (Eulumdat)                 | PL FLEX 600 DALI S 30W 4000K 4860lm      |
|    | LDT files (Eulumdat, additional)    | PL FLEX 600 DALI S 3W 4000K 400lm EM BOX |
|    | LDT files (Eulumdat, additional)    | PL FLEX 600 DALI S 6W 4000K 750lm EM     |
|    | ULD file (DIALux)                   | PL FLEX 600 DALI S 30W 840               |
|    | ROLF file (RELUX)                   | PL FLEX 600 DALI S 30W 840               |
|    | UGR file (UGR table)                | PL FLEX 600 DALI S 30W 4000K 4860lm      |
|   | UGR file (UGR table)                | PL FLEX 600 DALI S 3W 4000K 400lm EM BOX |
|  | UGR file (UGR table)                | PL FLEX 600 DALI S 6W 4000K 750lm EM     |
|  | Light distribution curve type cone  | PL FLEX 600 DALI S 30W 4000K 4860lm      |
|  | Light distribution curve type cone  | PL FLEX 600 DALI S 3W 4000K 400lm EM BOX |
|  | Light distribution curve type cone  | PL FLEX 600 DALI S 6W 4000K 750lm EM     |
|  | Light distribution curve type polar | PL FLEX 600 DALI S 30W 4000K 4860lm      |
|  | Light distribution curve type polar | PL FLEX 600 DALI S 3W 4000K 400lm EM BOX |
|  | Light distribution curve type polar | PL FLEX 600 DALI S 6W 4000K 750lm EM     |
| CAD/BIM files                                                                       |                                     | Document name                            |
|  | BIM Revit 3D                        | PL FLEX                                  |
|  | CAD STEP 3D                         | PL FLEX 600                              |
| Tender texts                                                                        |                                     | Document name                            |
|  | Tender documents                    | PANEL FLEX 600 DALI 30W 840-EN           |

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.

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

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