

# PRODUCT DATASHEET

## PL FLEX 625 DALI S 32W 830 U19

PANEL FLEX 625 UGR<19 DALI | Square recessed panel luminaire with low glare, for 625 x 625 mm ceiling systems and DALI-2 technology



### Areas of application

- Suitable for recessed ceiling systems with grid size of 625 x 625 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 5220 lm
- Energy savings thanks to high system efficacy: up to 160 lm/W
- Good glare reduction ( $UGR \leq 19$ )
- 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

## TECHNICAL DATA

### Electrical data

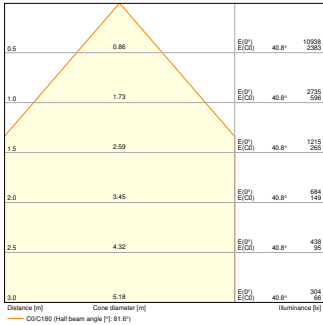
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 32.00 W <sup>1)</sup> |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 0/50/60 Hz            |
| Nominal current                                             | 150.000 mA            |
| Inrush current                                              | 4.4 A                 |
| Inrush current time T <sub>h50</sub>                        | 440 µs                |
| 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          |

<sup>1)</sup> The Panel Flex family is fulfilling the technical minimum requirements according to the German BEG subsidy program for energy efficient luminaires

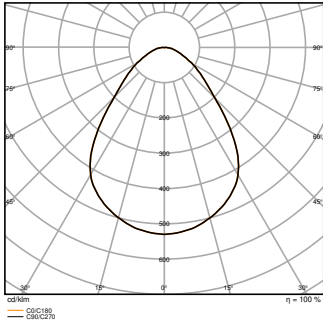
### Photometrical data

|                                              |                        |
|----------------------------------------------|------------------------|
| Luminous flux                                | 5160 lm <sup>1)</sup>  |
| Luminous efficacy                            | 155 lm/W <sup>1)</sup> |
| Color temperature                            | 3000 K                 |
| Light color (designation)                    | Warm 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                    |
| Beam angle                                   | 90 °                   |
| UGR                                          | < 19                   |

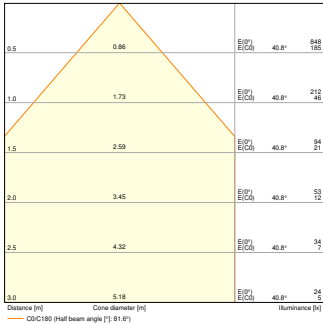
<sup>1)</sup> The Panel Flex family is fulfilling the technical minimum requirements according to the German BEG subsidy program for energy efficient luminaires



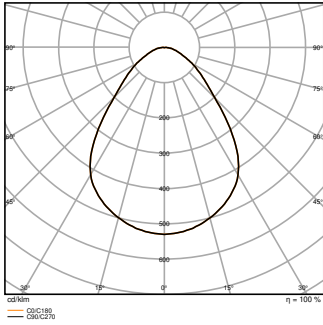
PL FLEX DALI 625 S 32W 3000K  
U19 5160lm



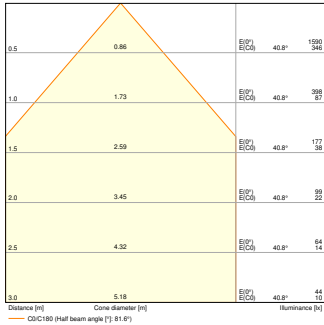
PL FLEX DALI 625 S 32W 3000K  
U19 5160lm



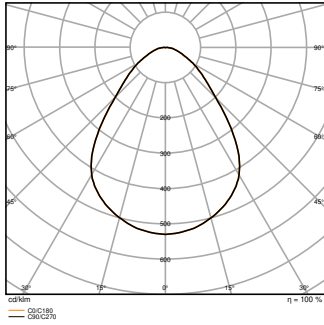
PL FLEX DALI 625 S 3W 3000K  
U19 400lm EM BOX



PL FLEX DALI 625 S 3W 3000K  
U19 400lm EM BOX



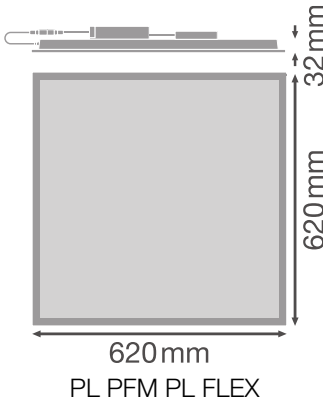
PL FLEX DALI 625 S 6W 3000K  
U19 750lm EM



PL FLEX DALI 625 S 6W 3000K  
U19 750lm EM

Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 620.00 mm |
| Width          | 620.00 mm |
| Height         | 32.00 mm  |
| Product weight | 1700.00 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                        | 620 mm                                                     |
| Mounting width                         | 620 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                 |

<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              | 750 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 &amp; 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- 32/220-240/750 PL FLEX 625 | 4058075843691 |
|  | PANEL 625 SURFACE MOUNT KIT H70 VAL | 4058075402867 |
|   | PANEL 625 RECESSED MOUNT FRAME      | 4058075402904 |

| Product image                                                                     | Product name                      | EAN           |
|-----------------------------------------------------------------------------------|-----------------------------------|---------------|
|  | EM CONVERSION BOX                 | 4058075237025 |
|  | PANEL Suspension Kit              | 4058075402928 |
|  | PANEL RECESSED MOUNT CLIPS VAL 4x | 4058075409859 |
|  | OTi DALI 50/220...240/1A4 NFC     | 4062172061889 |

## EQUIPMENT / ACCESSORIES

- Accessories for several mounting options available
- Connector box with 5-pole terminal 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 |

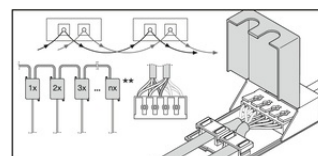
| Product image                                                                     | Product name                                                   | EAN           |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------|---------------|
|   | 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 DALI 625 S 32W 3000K U19 5160lm |

| Photometric and lighting design files                                               |                                     | Document name                                |
|-------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------|
|    | IES files (IES, additional)         | PL FLEX DALI 625 S 3W 3000K U19 400lm EM BOX |
|    | IES files (IES, additional)         | PL FLEX DALI 625 S 6W 3000K U19 750lm EM     |
|    | LDT file (Eulumdat)                 | PL FLEX DALI 625 S 32W 3000K U19 5160lm      |
|    | LDT files (Eulumdat, additional)    | PL FLEX DALI 625 S 3W 3000K U19 400lm EM BOX |
|    | LDT files (Eulumdat, additional)    | PL FLEX DALI 625 S 6W 3000K U19 750lm EM     |
|    | ULD file (DIALux)                   | PL FLEX 625 DALI S 32W 830 U19               |
|    | ROLF file (RELUX)                   | PL FLEX 625 DALI S 32W 830 U19               |
|    | UGR file (UGR table)                | PL FLEX DALI 625 S 32W 3000K U19 5160lm      |
|   | UGR file (UGR table)                | PL FLEX DALI 625 S 3W 3000K U19 400lm EM BOX |
|  | UGR file (UGR table)                | PL FLEX DALI 625 S 6W 3000K U19 750lm EM     |
|  | Light distribution curve type cone  | PL FLEX DALI 625 S 32W 3000K U19 5160lm      |
|  | Light distribution curve type cone  | PL FLEX DALI 625 S 3W 3000K U19 400lm EM BOX |
|  | Light distribution curve type cone  | PL FLEX DALI 625 S 6W 3000K U19 750lm EM     |
|  | Light distribution curve type polar | PL FLEX DALI 625 S 32W 3000K U19 5160lm      |
|  | Light distribution curve type polar | PL FLEX DALI 625 S 3W 3000K U19 400lm EM BOX |
|  | Light distribution curve type polar | PL FLEX DALI 625 S 6W 3000K U19 750lm EM     |
| CAD/BIM files                                                                       |                                     | Document name                                |
|  | BIM Revit 3D                        | PL FLEX                                      |
|  | CAD STEP 3D                         | PL FLEX 625                                  |
| Tender texts                                                                        |                                     | Document name                                |
|  | Tender documents                    | PANEL FLEX 625 UGR19 DALI 32W 830 U19-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.

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

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