

# PRODUCT DATASHEET

## DL UGR19 PFM DN195 21 W 830 WT IP54 DALI

DOWNLIGHT UGR19 DALI | Low-glare downlights, suitable for computer screen workstations with DALI-2 IoT technology



PERFOR-  
MANCE  
CLASS

### Areas of application

- Suitable for office applications, especially for computer screen workplaces
- Direct replacement for luminaires with compact fluorescent lamps
- Entrances / Hallways
- Bathrooms, kitchens and sheltered outdoor areas
- General illumination

### Product benefits

- Suitable luminaire for VIVARES and other DALI-2 Light Management Systems
- Good glare reduction ( $UGR < 19$ ) and cut off angle up to  $30^\circ$  for comfortable indoor lighting
- Easy and quick installation thanks to connector box with 5-pole toolless terminal
- Low flicker light
- Suitable for use in dusty and damp locations thanks to high IP rating
- 5 years guarantee

### Product features

- IoT-ready luminaire with DALI-2 technology
- Housing material: Aluminum mirror-finished reflector
- Type of protection: IP54 (room side) / IP20 (back side)
- Connector box with push wire terminal for tool-free connection
- Through-wiring possible



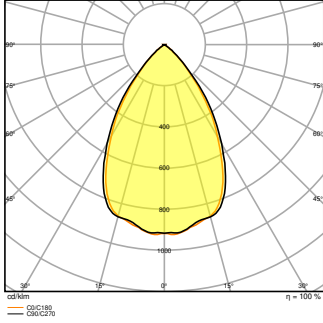
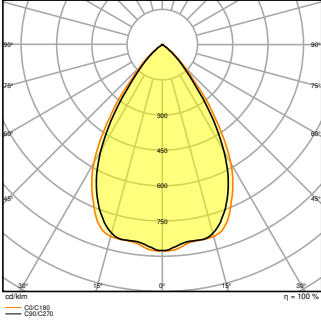
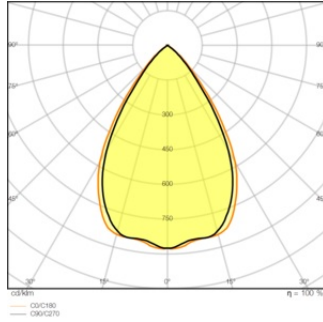
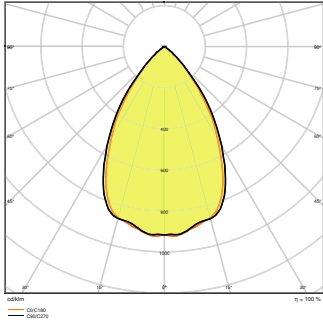
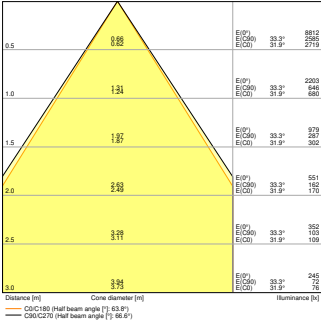
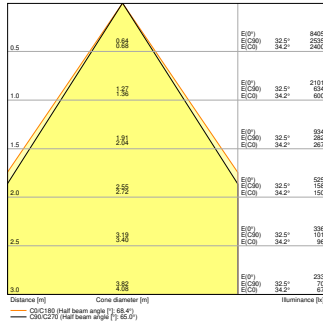
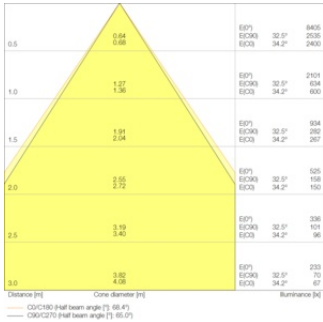
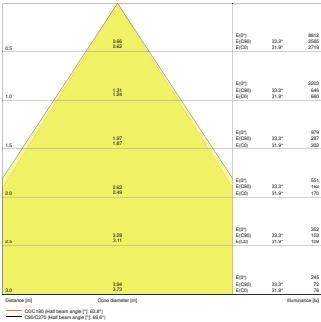
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**TECHNICAL DATA****Electrical data**

|                                                             |                     |
|-------------------------------------------------------------|---------------------|
| Nominal wattage                                             | 21.00 W             |
| Nominal voltage                                             | 220...240 V         |
| Mains frequency                                             | 0/50/60 Hz          |
| Nominal current                                             | 155 mA              |
| Inrush current                                              | 15 A                |
| Inrush current time $T_{h50}$                               | 200 $\mu$ s         |
| Max. number of luminaires per miniature circuit breaker B16 | 120                 |
| Max. number of luminaires per miniature circuit breaker C10 | 80                  |
| Max. number of luminaires per miniature circuit breaker C16 | 120                 |
| Power factor $\lambda$                                      | $\geq 0.90$         |
| Total harmonic distortion                                   | < 10 %              |
| Protection class                                            | II                  |
| Operating mode                                              | External LED driver |

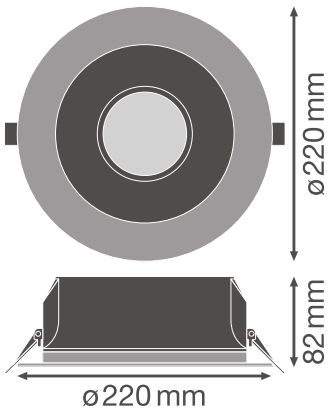
**Photometrical data**

|                                              |                            |
|----------------------------------------------|----------------------------|
| Luminous flux                                | 2400 lm                    |
| Luminous efficacy                            | 115 lm/W                   |
| Color temperature                            | 3000 K                     |
| Light color (designation)                    | Warm White                 |
| Color rendering index Ra                     | $\geq 80$                  |
| Standard deviation of color matching         | $\leq 5$ sdc <sub>cm</sub> |
| Luminous intensity                           | -                          |
| Low flicker                                  | Yes                        |
| Flickering metric (Pst LM)                   | -                          |
| Stroboscope effect metric (SVM)              | -                          |
| Photobiological safety group acc. to EN62778 | RG1                        |
| Photobiological safety group acc. to EN62471 | RG0                        |
| Beam angle                                   | 65 °                       |
| UGR                                          | < 19                       |



Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 220.00 mm |
| Height         | 82.00 mm  |
| Product weight | 900.00 g  |



Materials & Colors

|                                            |                    |
|--------------------------------------------|--------------------|
| Product color                              | White              |
| Housing color                              | White              |
| Body material                              | Aluminum           |
| Cover material                             | Polycarbonate (PC) |
| Light emitting surface material            | Polycarbonate (PC) |
| Glow Wire Test according to IEC 60695-2-12 | 650 °C             |
| Mercury content                            | 0.0 mg             |

Application & Mounting

|                                        |                                                 |
|----------------------------------------|-------------------------------------------------|
| Ambient temperature range              | -20...+45 °C                                    |
| Temperature range at storage           | -40...+70 °C                                    |
| Type of connection                     | Screwless terminal, 5-Pole (L, N, PE, DA+, DA-) |
| Type of protection                     | IP54/IP20                                       |
| Protection class IK (shock resistance) | IK03                                            |
| Dimmable                               | Yes                                             |
| Type of dimming                        | DALI                                            |
| Mounting type                          | Recessed                                        |
| Mounting location                      | Ceiling                                         |
| Application environment                | Indoor                                          |
| Mounting diameter                      | 195,0 mm                                        |
| Mounting depth                         | 120 mm                                          |
| LED module replaceable                 | Not replaceable                                 |
| With light source                      | Yes                                             |

## Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 70000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 60000 h <sup>1)</sup> |
| Lifespan L90/B10 at 25 °C  | 40000 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              | 700 mA   |
| ECG - Output ripple current | < 10 %   |
| ECG - Length                | 119.0 mm |
| ECG - Width                 | 52.0 mm  |
| ECG - Height                | 30 mm    |

## Certificates & Standards

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

## Additional product data

|                       |              |
|-----------------------|--------------|
| Number of illuminants | Not relevant |
|-----------------------|--------------|

## EQUIPMENT / ACCESSORIES

– External control gear included

## DOWNLOAD DATA

| Documents and certificates                                                         |                               |
|------------------------------------------------------------------------------------|-------------------------------|
|  | User instruction              |
|  | Addon Technical Information   |
|  | Packaging insert              |
|  | Declarations Of Conformity CE |

## Documents and certificates



Declarations Of Conformity UKCA

## Photometric and lighting design files



IES file (IES)



LDT file (Eulumdat)



ULD file (DIALux)



ROLF file (RELUX)



UGR file (UGR table)



LDC typ cone



LDC typ polar

## CAD/BIM files



BIM\_Revit\_3D



CAD\_STEP\_3D

## Tender texts



Tender documents

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                 |
|---------------|------------------------------|--------------------------------------|--------------|------------------------|
| 4058075459830 | Folding box<br>1             | 262 mm x 108 mm x 266 mm             | 1197.00 g    | 7.53 dm <sup>3</sup>   |
| 4058075459847 | Shipping box<br>16           | 545 mm x 452 mm x 563 mm             | 20749.00 g   | 138.69 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

