

# PRODUCT DATASHEET

## DL UGR19 PFM DN155 14 W 830 WT IP54

DOWNLIGHT UGR19 | Low-glare downlights, suitable for computer screen workstations



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

- Good glare reduction (UGR < 19) and cut off angle up to 30° 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

- 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
- Luminaire versions with IoT-ready DALI-2 driver or IoT Zigbee 3.0 technology available



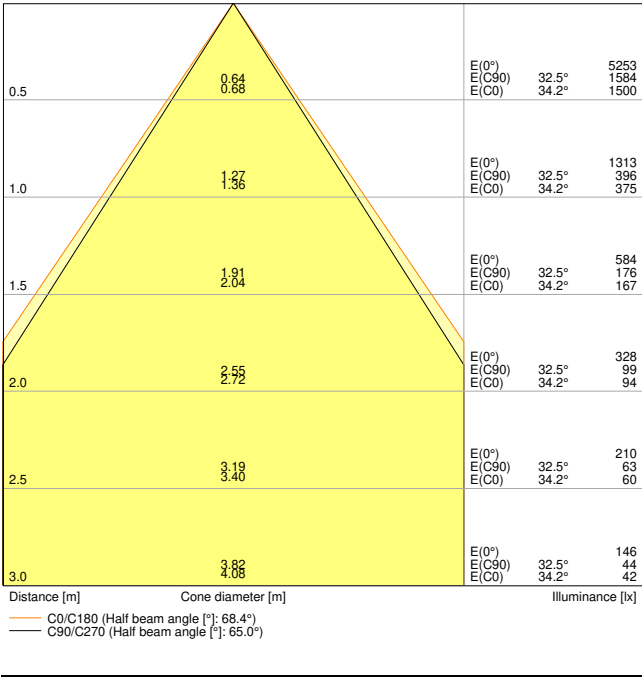
TECHNICAL DATA

Electrical data

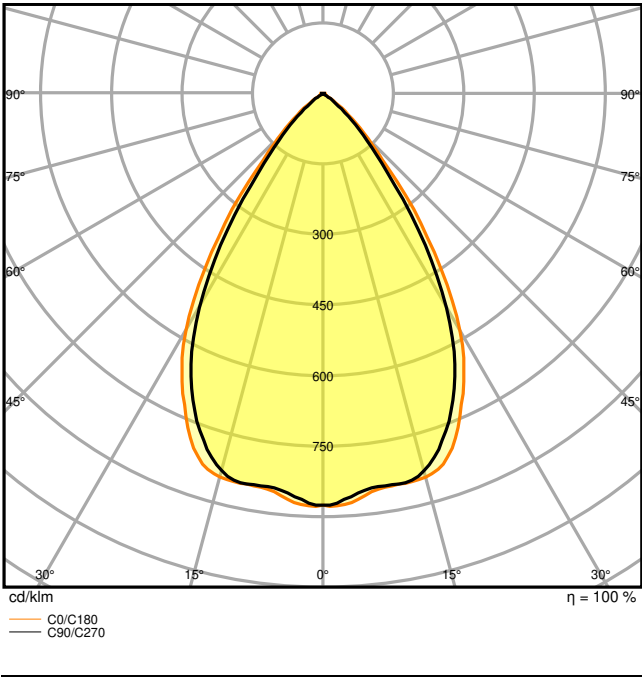
|                                                             |                     |
|-------------------------------------------------------------|---------------------|
| Nominal wattage                                             | 14.00 W             |
| Nominal voltage                                             | 220...240 V         |
| Mains frequency                                             | 50...60 Hz          |
| Nominal current                                             | 120 mA              |
| Inrush current                                              | 20 A                |
| Inrush current time T <sub>h50</sub>                        | 200 µs              |
| 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 λ                                              | ≥0.90               |
| Total harmonic distortion                                   | < 15 %              |
| Protection class                                            | II                  |
| Operating mode                                              | External LED driver |

Photometrical data

|                                              |                     |
|----------------------------------------------|---------------------|
| Luminous flux                                | 1500 lm             |
| Luminous efficacy                            | 105 lm/W            |
| Color temperature                            | 3000 K              |
| Light color (designation)                    | Warm White          |
| Color rendering index Ra                     | ≥80                 |
| Standard deviation of color matching         | ≤5 sdc <sub>m</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                |



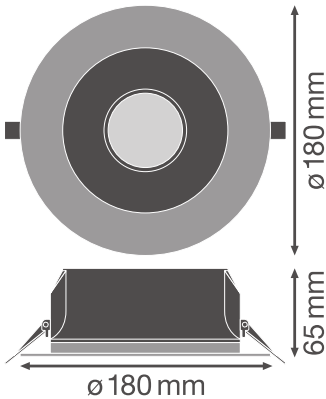
LDC typ cone



LDC typ polar

Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 180.00 mm |
| Height         | 65.00 mm  |
| Product weight | 650.00 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 |
| Type of protection                     | IP54/IP20          |
| Protection class IK (shock resistance) | IK03               |
| Dimmable                               | No                 |
| Mounting type                          | Recessed           |
| Mounting location                      | Ceiling            |
| Application environment                | Indoor             |
| Mounting diameter                      | 155,0 mm           |
| Mounting depth                         | 100 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              | 450 mA   |
| ECG - Output ripple current | < 10 %   |
| ECG - Length                | 114.0 mm |
| ECG - Width                 | 45 mm    |

|                          |                                   |
|--------------------------|-----------------------------------|
| ECG - Height             | 28 mm                             |
| Recommended control gear | OSRAM OTI DALI 50/220-240/1A4 NFC |

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   |
|  | Declarations Of Conformity UKCA |
| Photometric and lighting design files                                              |                                 |
|  | IES file (IES)                  |
|  | LDT file (Eulumdat)             |
|  | ULD file (DIALux)               |
|  | ROLF file (RELUX)               |



**DISCLAIMER**

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