

# PRODUCT DATASHEET

## DL CMFT DA D150 P 18W MS 940 OP WT

DOWNLIGHT COMFORT DALI OPAL | Downlight luminaires with aluminum housing, high luminous efficacy and external DALI-2 driver



### Areas of application

- 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
- Extended services such as energy monitoring and remote maintenance possible with DALI versions
- Energy savings thanks to high system efficacy: up to 120 lm/W
- Highly versatile due to Multi Select functions
- High color rendering index CRI > 90
- External driver for extended flexibility and easy installation
- Through wiring possible via additional connector box accessory
- Type of protection: IP44
- Easy installation with fast connection
- Further variants with DALI-2 driver, Zigbee driver or Emergency Conversion Kit available

### Product features

- IoT-ready luminaire with DALI-2 technology
- Aluminum luminaires with 4 different cut-outs and opal diffuser



- Very homogenous light distribution
- External driver with Multi Lumen function of up to 5000 lm
- Multi Color function
- Consistent lighting color  $\leq 3$  SDCM
- Lifetime (L70/B50) 100,000 h at 25 °C

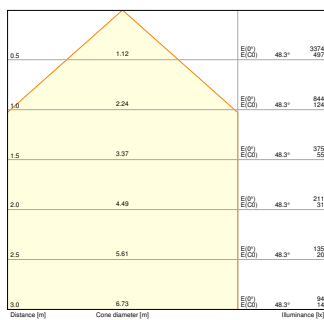
## TECHNICAL DATA

### Electrical data

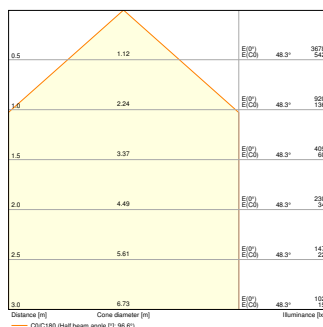
|                                                             |                     |
|-------------------------------------------------------------|---------------------|
| Nominal wattage                                             | 18 W / 15 W / 12 W  |
| Nominal voltage                                             | 220...240 V         |
| Mains frequency                                             | 0/50/60 Hz          |
| Nominal current                                             | 82/71/59 mA         |
| Inrush current                                              | 24.8 A              |
| Inrush current time $T_{h50}$                               | 6.34 $\mu$ s        |
| Max. number of luminaires per miniature circuit breaker B16 | 30                  |
| Max. number of luminaires per miniature circuit breaker C10 | 24                  |
| Max. number of luminaires per miniature circuit breaker C16 | 38                  |
| Power factor $\lambda$                                      | $\geq 0.90$         |
| Total harmonic distortion                                   | $\leq 15 \%$        |
| Protection class                                            | III                 |
| Operating mode                                              | External LED driver |
| Dimming interface                                           | DALI-2/IoT          |

### Photometrical data

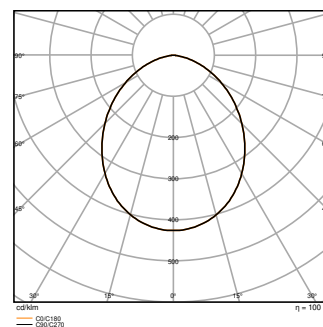
|                                                              |                             |
|--------------------------------------------------------------|-----------------------------|
| Luminous flux                                                | 2160 lm / 1800 lm / 1440 lm |
| Luminous efficacy                                            | 120 lm/W                    |
| Color temperature                                            | 3000 K / 4000 K             |
| Reference control setting of contained light source (Kelvin) | 4000 K                      |
| Light color (designation)                                    | Warm White / Cool White     |
| Color rendering index Ra                                     | > 90                        |
| Standard deviation of color matching                         | $\leq 3$ sdc <sub>m</sub>   |
| Luminous intensity                                           | -                           |
| Flickering metric (Pst LM)                                   | <1                          |
| Stroboscope effect metric (SVM)                              | <0.4                        |
| Photobiological safety group acc. to EN62778                 | RG0                         |
| Photobiological safety group acc. to EN62471                 | RG0                         |
| Beam angle                                                   | 95 °                        |



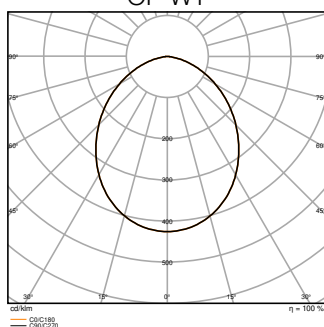
DL CMFT DA D150 P 18W MS 930  
OP WT



DL CMFT DA D150 P 18W MS 940  
OP WT



DL CMFT DA D150 P 18W MS 930  
OP WT



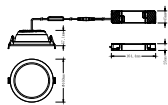
DL CMFT DA D150 P 18W MS 940  
OP WT

## Adjustable attributes

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|-----------------|-------------------|---------------|-------------------|
| 18 W            | 3000 K            | 1980 lm       | 110 lm/W          |
| 18 W            | 4000 K            | 2160 lm       | 120 lm/W          |
| 15 W            | 3000 K            | 1650 lm       | 110 lm/W          |
| 15 W            | 4000 K            | 1800 lm       | 120 lm/W          |
| 12 W            | 3000 K            | 1320 lm       | 110 lm/W          |
| 12 W            | 4000 K            | 1440 lm       | 120 lm/W          |

## Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 160.00 mm |
| Height         | 57.00 mm  |
| Product weight | 385.00 g  |



Materials & Colors

|                                            |                    |
|--------------------------------------------|--------------------|
| Product color                              | White              |
| Housing color                              | White              |
| Body material                              | Aluminum           |
| Cover 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...+40 °C               |
| Temperature range at storage           | -20...+80 °C               |
| Type of connection                     | Screwless terminal, 5-Pole |
| Type of protection                     | IP44/IP20                  |
| Protection class IK (shock resistance) | IK03                       |
| Dimmable                               | Yes                        |
| Type of dimming                        | DALI                       |
| Mounting type                          | Recessed                   |
| Mounting location                      | Ceiling / Wall             |
| Application environment                | Indoor                     |
| Mounting width                         | 150 mm                     |
| Mounting diameter                      | 150 mm                     |
| Mounting depth                         | 57 mm                      |
| With light source                      | Yes                        |

Lifespan

|                           |                        |
|---------------------------|------------------------|
| Lifespan L70/B50 at 25 °C | 100000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C | 70000 h <sup>1)</sup>  |

|                            |         |
|----------------------------|---------|
| Lifespan L80/B50 at 25 °C  | 70000 h |
| Lifespan L90/B10 at 25 °C  | 40000 h |
| Number of switching cycles | 30000   |

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              | 450/350/300 mA           |
| ECG - Output ripple current | ≤ 10 %                   |
| ECG - Length                | 164 mm                   |
| ECG - Width                 | 45 mm                    |
| ECG - Height                | 25 mm                    |
| Recommended control gear    | DR DALI-P-30/220-240/700 |

Certificates & Standards

|                                                      |                             |
|------------------------------------------------------|-----------------------------|
| Standards                                            | ENEC / CE / UKCA / EAC / CB |
| Luminaire with limited surface temperature, "D sign" | No                          |
| Ball shot safe                                       | No                          |
| Replaceable light source (EPREL)                     | Not replaceable             |

Additional product data

|                |                           |
|----------------|---------------------------|
| Product remark | Available from March 2025 |
| Added function | MULTI SELECT / VIVARES    |

Accessories Optional

| Product image                                                                       | Product name          | EAN           |
|-------------------------------------------------------------------------------------|-----------------------|---------------|
|  | DL CMFT FRAME D150 WT | 4099854499968 |
|  | DL CMFT FRAME D150 BK | 4099854499982 |
|  | DL CMFT FRAME D150 GY | 4099854500008 |

| Product image                                                                    | Product name              | EAN           |
|----------------------------------------------------------------------------------|---------------------------|---------------|
|  | DL CMFT EXCH RING D150 BK | 4099854515316 |
|  | DL CMFT EXCH RING D150 GY | 4099854515439 |

## EQUIPMENT / ACCESSORIES

- Surface mounting frame options available
- Security rope for luminaire included
- External control gear included
- Suitable for use with separate Emergency Conversion Box

## Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- The luminaires are not suitable for covering with thermally insulated material.

## DOWNLOAD DATA

| Documents and certificates                                                         |                   | Document name                      |
|------------------------------------------------------------------------------------|-------------------|------------------------------------|
|  | Legal information | Informationstext 18 Abs 4 ElektroG |
|  | Legal information | DL CMFT DALI                       |
|  | Legal information | PL PRINT SKY1                      |
|  | Legal information | DL SLIM ALU DA_CMFT DA             |
| Photometric and lighting design files                                              |                   | Document name                      |
|  | IES file (IES)    | DL CMFT DA D150 P 18W MS 930 OP WT |
|  | IES file (IES)    | DL CMFT DA D150 P 18W MS 940 OP WT |

| Photometric and lighting design files                                              |                                     | Document name                      |
|------------------------------------------------------------------------------------|-------------------------------------|------------------------------------|
|    | LDT file (Eulumdat)                 | DL CMFT DA D150 P 18W MS 930 OP WT |
|    | LDT file (Eulumdat)                 | DL CMFT DA D150 P 18W MS 940 OP WT |
|    | ULD file (DIALux)                   | DL CMFT DA D150 P 18W MS 940 OP WT |
|    | UGR file (UGR table)                | DL CMFT DA D150 P 18W MS 930 OP WT |
|    | UGR file (UGR table)                | DL CMFT DA D150 P 18W MS 940 OP WT |
|    | Light distribution curve type cone  | DL CMFT DA D150 P 18W MS 930 OP WT |
|    | Light distribution curve type cone  | DL CMFT DA D150 P 18W MS 940 OP WT |
|    | Light distribution curve type polar | DL CMFT DA D150 P 18W MS 930 OP WT |
|    | Light distribution curve type polar | DL CMFT DA D150 P 18W MS 940 OP WT |
| CAD/BIM files                                                                      |                                     | Document name                      |
|   | BIM Revit 3D                        | DL CMFT MS                         |
|  | CAD STEP 3D                         | DL CMFT D150 MS OP                 |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854490965 | Folding box<br>1             | 185 mm x 185 mm x 100 mm             | 505.00 g     | 3.42 dm <sup>3</sup>  |
| 4099854490972 | Shipping box<br>8            | 390 mm x 385 mm x 225 mm             | 4766.00 g    | 33.78 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)

## DISCLAIMER

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