

# PRODUCT DATASHEET

## DL CMFT D150 P 18W ML 93040 U19 WT

DOWNLIGHT COMFORT UGR19 | Downlight luminaires with aluminum housing, high luminous efficacy and low glare



PERFOR-  
MANCE  
CLASS

### Areas of application

- Direct replacement for recessed luminaires with fluorescent lamps
- Offices, conference rooms
- Reception areas, foyers, corridors, elevators

### Product benefits

- Homogenous light distribution and reduced glare  $UGR \leq 19$
- 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

- Aluminum luminaires with 4 different cut-outs and mirror-finished reflector  $UGR \leq 19$
- 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 (L80/B10): 70,000 h (at 25 °C)

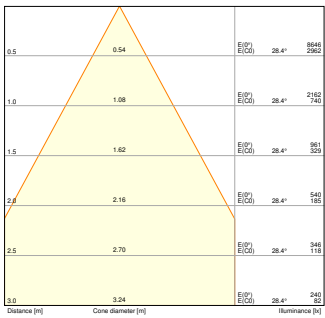
## TECHNICAL DATA

### Electrical data

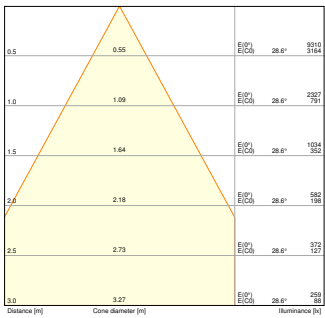
|                                                             |                     |
|-------------------------------------------------------------|---------------------|
| Nominal wattage                                             | 18 W / 15 W / 12 W  |
| Nominal voltage                                             | 220...240 V         |
| Mains frequency                                             | 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                                            | II                  |
| Operating mode                                              | External LED driver |

### Photometrical data

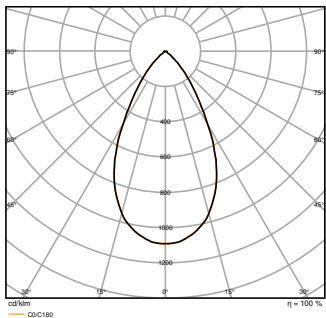
|                                                              |                             |
|--------------------------------------------------------------|-----------------------------|
| Luminous flux                                                | 2160 lm / 1800 lm / 1440 lm |
| Luminous efficacy                                            | 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                                                   | 55 °                        |
| UGR                                                          | < 19                        |



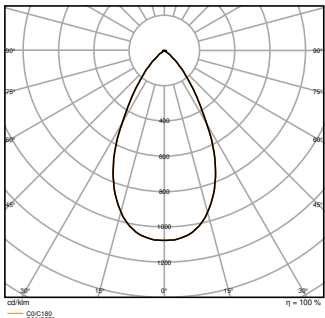
DL CMFT D150 P 18W MS 930  
U19 WT



DL CMFT D150 P 18W MS 940  
U19 WT



DL CMFT D150 P 18W MS 930  
U19 WT



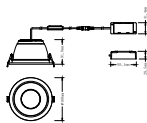
DL CMFT D150 P 18W MS 940  
U19 WT

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         | 92.00 mm  |
| Product weight | 345.00 g  |



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Materials & Colors

|                                            |                    |
|--------------------------------------------|--------------------|
| Product color                              | White              |
| Housing color                              | White              |
| RAL Color (most similar)                   | RAL 9003           |
| 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, 2-Pole (L, N) |
| Type of protection                     | IP44/IP20                         |
| Protection class IK (shock resistance) | IK03                              |
| Dimmable                               | No                                |
| Mounting type                          | Recessed                          |
| Mounting location                      | Ceiling / Wall                    |
| Application environment                | Indoor                            |
| Mounting width                         | 150 mm                            |
| Mounting diameter                      | 150 mm                            |
| Mounting depth                         | 92 mm                             |
| With light source                      | Yes                               |
| Replaceable light source               | No                                |

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                  |

<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              | 450/365/300 mA |
| ECG - Output ripple current | ≤ 10 %         |
| ECG - Length                | 95 mm          |
| ECG - Width                 | 41 mm          |
| ECG - Height                | 28,5 mm        |
| Recommended control gear    | BD-ME18ML-4045 |

### Emergency lighting

|                                           |                                                                                        |
|-------------------------------------------|----------------------------------------------------------------------------------------|
| Type of Emergency Lighting (EL)           | Optional EL unit (battery and controller) for decentral operation available separately |
| Type of emergency operation test          | None                                                                                   |
| Wattage in emergency operation mode       | 3 W                                                                                    |
| Luminous flux in emergency operation mode | 345 lm                                                                                 |

### Certificates & Standards

|                                                      |                             |
|------------------------------------------------------|-----------------------------|
| Standards                                            | ENEC / CE / UKCA / EAC / CB |
| Luminaire with limited surface temperature, "D sign" | No                          |
| Ball shot safe                                       | No                          |
| EPD                                                  | LEDV-00053-V01.01-EN        |
| Replaceable light source (EPREL)                     | Not replaceable             |

### Additional product data

|                |              |
|----------------|--------------|
| Added function | MULTI SELECT |
|----------------|--------------|

### Accessories Optional

| Product image                                                                      | Product name              | EAN           |
|------------------------------------------------------------------------------------|---------------------------|---------------|
|    | DL CMFT FRAME D150 WT     | 4099854499968 |
|    | DL CMFT FRAME D150 GY     | 4099854500008 |
|    | DL CMFT FRAME D150 BK     | 4099854499982 |
|    | DL CMFT EXCH RING D150 GY | 4099854515439 |
|    | DL CMFT EXCH RING D150 BK | 4099854515316 |
|  | DL CMFT EXT RING D190 WT  | 4099854687723 |
|  | DL CMFT EXT RING D190 GY  | 4099854687600 |
|  | DL CMFT EXT RING D190 BK  | 4099854687570 |

## 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                                             |
|------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------|
|    | User instruction / safety instructions | DL CMFT FRAME_EXCH RING                                   |
|    | Legal information                      | Informationstext 18 Abs 4 ElektroG                        |
|    | Legal information                      | DL CMFT                                                   |
|    | Legal information                      | Safety Insert G11207793                                   |
|    | Legal information                      | EM Insert DL CMFT                                         |
|    | Legal information                      | Legal insert G11262490 MW T                               |
|   | Declarations of conformity             | DL CMFT                                                   |
|  | Declarations of conformity UKCA        | DL CMFT                                                   |
|  | EPD                                    | ENVIRONMENTAL PRODUCT DECLARATION DOWNLIGHT COMFORT GEN 2 |
| Photometric and lighting design files                                              |                                        | Document name                                             |
|  | IES file (IES)                         | DL CMFT D150 P 18W MS 930 U19 WT                          |
|  | IES file (IES)                         | DL CMFT D150 P 18W MS 940 U19 WT                          |
|  | LDT file (Eulumdat)                    | DL CMFT D150 P 18W MS 930 U19 WT                          |
|  | LDT file (Eulumdat)                    | DL CMFT D150 P 18W MS 940 U19 WT                          |
|  | ULD file (DIALux)                      | DL CMFT D150 P 18W MS 940 U19 WT                          |
|  | ROLF file (RELUX)                      | DL CMFT D150 P 18W MS 940 U19 WT                          |
|  | UGR file (UGR table)                   | DL CMFT D150 P 18W MS 930 U19 WT                          |

| Photometric and lighting design files                                             |                                     | Document name                                       |
|-----------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------|
|  | UGR file (UGR table)                | DL CMFT D150 P 18W MS 940 U19 WT                    |
|   | Light distribution curve type cone  | DL CMFT D150 P 18W MS 930 U19 WT                    |
|   | Light distribution curve type cone  | DL CMFT D150 P 18W MS 940 U19 WT                    |
|   | Light distribution curve type polar | DL CMFT D150 P 18W MS 930 U19 WT                    |
|   | Light distribution curve type polar | DL CMFT D150 P 18W MS 940 U19 WT                    |
| CAD/BIM files                                                                     |                                     | Document name                                       |
|   | BIM Revit 3D                        | DL CMFT MS                                          |
|   | CAD STEP 3D                         | DL CMFT D150 MS U19                                 |
| Tender texts                                                                      |                                     | Document name                                       |
|  | Tender documents                    | DOWNLIGHT COMFORT UGR19 D150 P 18W MS 940 U19 WT-en |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854491085 | Folding box<br>1             | 185 mm x 185 mm x 115 mm             | 474.00 g     | 3.94 dm <sup>3</sup>  |
| 4099854491092 | Shipping box<br>8            | 390 mm x 385 mm x 255 mm             | 4556.00 g    | 38.29 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)

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