# PRODUCT DATASHEET
# DL CMFT ZB D150 P 18W 93040 OP WT

DOWNLIGHT COMFORT ZIGBEE OPAL | Downlight luminaires with aluminum housing, high luminous efficacy and external Zigbee 3.0 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 DIRECT EASY / VIVARES Zigbee and other Zigbee 3.0 Light Management Systems
- Extended services such as energy monitoring and remote maintenance possible with Zigbee 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 Zigbee 3.0 technology
- Aluminum luminaires with 4 different cut-outs and opal diffuser
- Very homogenous light distribution
- Multi Color function
- Consistent lighting color ≤ 3 SDCM
- Lifetime (L80/B10): 70,000 h (at 25 °C)


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## TECHNICAL DATA

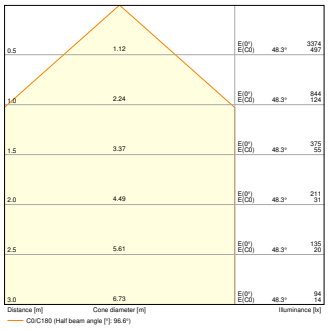
### Electrical data

| | |
|---|---|
| Nominal wattage | 18.00 W |
| Nominal voltage | 220…240 V |
| Mains frequency | 0/50/60 Hz |
| Nominal current | 84.000 mA |
| Inrush current | 24.8 A |
| Inrush current time $T_{h50}$ | 6.34 µs |
| 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 λ | > 0.90 |
| Total harmonic distortion | < 15 % |
| Protection class | II |
| Operating mode | External LED driver |
| Dimming interface | Zigbee Direct / IoT |

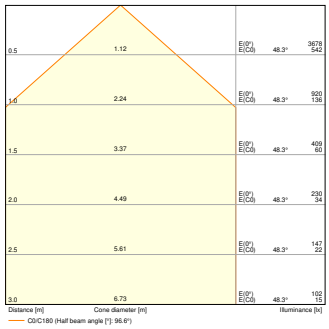
### Photometrical data

| | |
|---|---|
| Luminous flux | 2160 lm / 1980 lm |
| Luminous efficacy | 120 lm/W / 110 lm/W |
| Color temperature | 3000 K / 4000 K |
| Light color (designation) | Warm White / Cool White |
| Color rendering index Ra | > 90 |
| Standard deviation of color matching | < 3 sdcm |
| Low flicker | Yes |
| Flickering metric (Pst LM) | < 1 |
| Stroboscope effect metric (SVM) | < 0.4 |
| Photobiological safety group acc. to EN62778 | RG1 |
| Photobiological safety group acc. to EN62471 | RG0 |
| Beam angle | 95 ° |

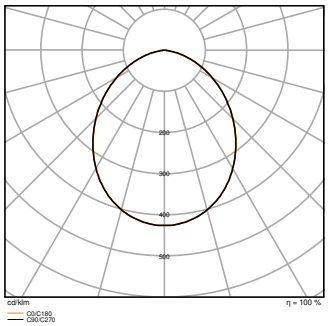

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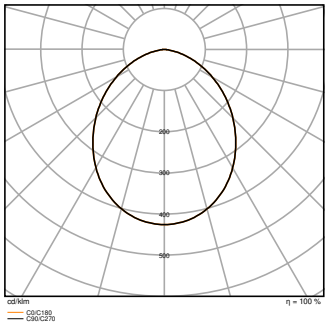
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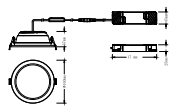
DL CMFT ZB D150 P 18W 940 OP WT

## Adjustable attributes

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|---|---|---|---|
| 18W | 3000K | 1980lm | 110lm/W |
| 18W | 4000K | 2160lm | 120lm/W |

## Dimensions & Weight

| | |
|---|---|
| Diameter | 160.00 mm |
| Height | 57.00 mm |
| Product weight | 400.00 g |



DL CMFT ZB D150 P 18W 93040 OP


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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, 3-POLE (L, N, PE) |
| Type of protection | IP44/IP20 |
| Protection class IK (shock resistance) | IK03 |
| Dimmable | Yes |
| Type of dimming | ZIGBEE |
| IoT ready | Support of Zigbee Data Clusters: 0x0302 (Luminaire Asset Management), 0x0702 (Smart Energy: Metering), 0x0B04 (Electrical Measurement) [1)] |
| Mounting type | Recessed |
| Mounting location | Ceiling |
| Application environment | Indoor |
| Mounting diameter | 150 mm |
| Mounting depth | 57 mm |
| With light source | Yes |
| Replaceable light source | No |

1) 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 [1)] |
| Lifespan L80/B10 at 25 °C | 70000 h [1)] |
| Lifespan L80/B50 at 25 °C | 70000 h |
| Lifespan L90/B10 at 25 °C | 40000 h |
| Number of switching cycles | 100000 |

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 mA |


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| | |
|---|---|
| ECG - Output ripple current | < 10 % |
| ECG - Length | 178 mm |
| ECG - Width | 45 mm |
| ECG - Height | 25 mm |

## Emergency lighting

| | |
|---|---|
| Type of Emergency Lighting (EL) | EL certified driver (0Hz / DC operation) for central battery operation included |
| Type of emergency operation test | None |
| Wattage in emergency operation mode | 3 W |
| Luminous flux in emergency operation mode | 373 lm |

## Certificates & Standards

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

## Additional product data

| | |
|---|---|
| Added function | MULTI SELECT / VIVARES |

## 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 |


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## EQUIPMENT / ACCESSORIES

- Surface mounting frame available as separate accessory
- Security rope for luminaire included
- External control gear included
- Suitable for use with separate Emergency Conversion Box
- Gray and black exchangeable rings available as separate accessory
- Extension rings are available as separate accessory

## 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 |
|---|---|---|
| PDF | User instruction / safety instructions | User Instruction G11249410 DL CMFT ZB |
| PDF | Legal information | App Download guide |
| PDF | Legal information | Safety Insert G11207793 |
| PDF | Legal information | DL SLIM ALU CMFT |
| PDF | Legal information | Informationstext 18 Abs 4 ElektroG |
| PDF | Declarations of conformity | DL CMFT ZB |
| PDF | Declarations of conformity UKCA | DL CMFT ZB |
| PDF | EU Data Act | SMART ZigBee Lamps and Luminaires |

| | Photometric and lighting design files | Document name |
|---|---|---|
| IES | IES file (IES) | DL CMFT ZB D150 P 18W 930 OP WT |
| IES | IES file (IES) | DL CMFT ZB D150 P 18W 940 OP WT |
| LDT | LDT file (Eulumdat) | DL CMFT ZB D150 P 18W 930 OP WT |
| LDT | LDT file (Eulumdat) | DL CMFT ZB D150 P 18W 940 OP WT |


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| | Photometric and lighting design files | Document name |
|---|---|---|
| | UGR file (UGR table) | DL CMFT ZB D150 P 18W 930 OP WT |
| | UGR file (UGR table) | DL CMFT ZB D150 P 18W 940 OP WT |
| | Light distribution curve type cone | DL CMFT ZB D150 P 18W 930 OP WT |
| | Light distribution curve type cone | DL CMFT ZB D150 P 18W 940 OP WT |
| | Light distribution curve type polar | DL CMFT ZB D150 P 18W 930 OP WT |
| | Light distribution curve type polar | DL CMFT ZB D150 P 18W 940 OP WT |

| | CAD/BIM files | Document name |
|---|---|---|
| | CAD STEP 3D | DL CMFT D150 MS OP |

| | Tender texts | Document name |
|---|---|---|
| | Tender documents | DOWNLIGHT COMFORT ZIGBEE OPAL D150 P 18W 93040 OP WT-en |

## LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4099854620157 | Folding box<br>1 | 185 mm x 185 mm x 100 mm | 520.00 g | 3.42 $dm^3$ |
| 4099854620164 | Shipping box<br>8 | 390 mm x 385 mm x 225 mm | 4886.00 g | 33.78 $dm^3$ |

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

## DISCLAIMER

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