

# PRODUCT DATASHEET

## DL CMFT HE D250 P 36W ML 840 U19 WT

DOWNLIGHT COMFORT HIGH EFFICIENCY UGR<19 | Downlight luminaires with aluminum housing, very 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

- Energy savings thanks to high system efficacy: up to 145 lm/W
- Through wiring possible via included connector box
- High grade polycarbonate front frame for reduced overall luminaire weight
- Easy and quick installation thanks to connector box with 3-pole toolless terminal
- Uniform light with minimized glare thanks to included reflector and diffuser
- Highly versatile due to selectable power steps (Multi Lumen) via dip switches on the driver
- Well suited for retrofitting using an extension ring as separate accessory

### Product features

- Lifetime (L80/B10): up to 100,000 h (at 25 °C)
- Consistent lighting color  $\leq 3$  SDCM
- External driver with Multi Lumen function of up to 5220 lm
- Aluminum luminaires with 3 different cut-outs and mirror-finished reflector UGR  $\leq 19$
- Very homogenous light distribution and reduced glare of UGR  $\leq 19$



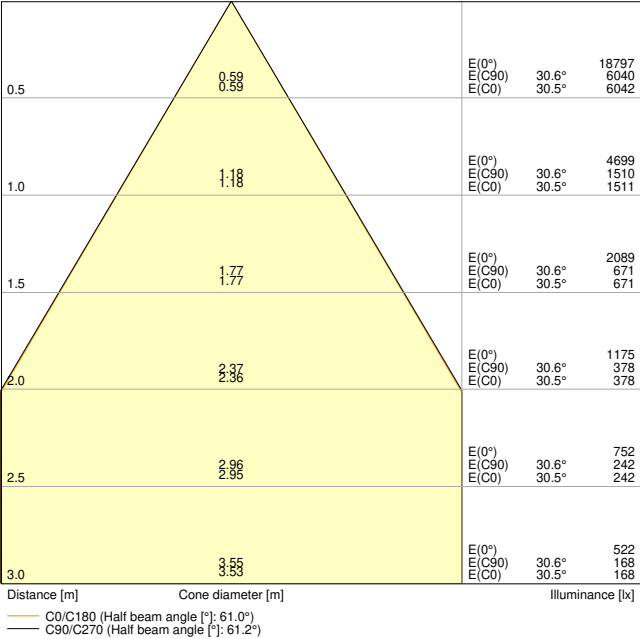
## TECHNICAL DATA

### Electrical data

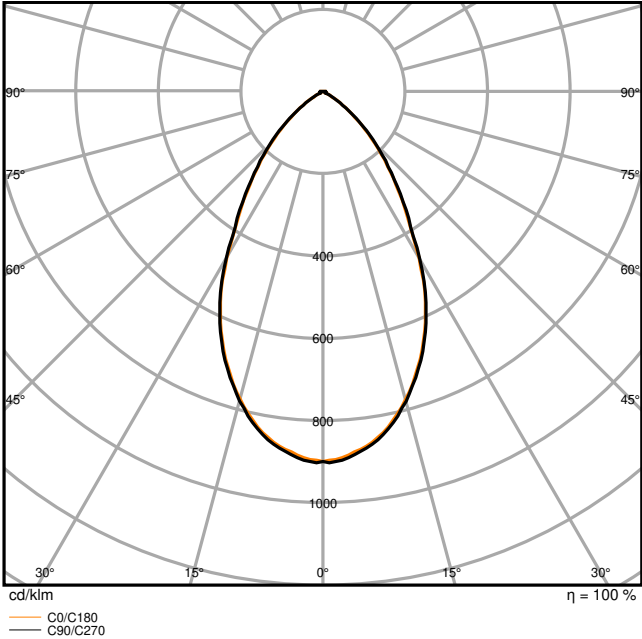
|                                                             |                        |
|-------------------------------------------------------------|------------------------|
| Nominal wattage                                             | 36 W / 30 W / 25 W     |
| Nominal voltage                                             | 220...240 V            |
| Mains frequency                                             | 50...60 Hz             |
| Nominal current                                             | 160mA / 136mA / 115 mA |
| Inrush current                                              | 25.2 A                 |
| Inrush current time $T_{h50}$                               | 90 $\mu$ s             |
| Max. number of luminaires per miniature circuit breaker B16 | 29                     |
| Max. number of luminaires per miniature circuit breaker C10 | 23                     |
| Max. number of luminaires per miniature circuit breaker C16 | 38                     |
| Power factor $\lambda$                                      | $\geq 0.90$            |
| Total harmonic distortion                                   | $\leq 20 \%$           |
| Protection class                                            | II                     |
| Surge capability (L-N)                                      | 1000 V                 |

### Photometrical data

|                                                |                             |
|------------------------------------------------|-----------------------------|
| Luminous flux                                  | 5200 lm / 4350 lm / 3750 lm |
| Total luminous flux of contained light sources | 4500 lm                     |
| Luminous efficacy                              | 145 lm/W / 150 lm/W         |
| Color temperature                              | 4000 K                      |
| Light color (designation)                      | Cool White                  |
| Color rendering index Ra                       | > 80                        |
| Standard deviation of color matching           | 3 sdcn                      |
| Luminous intensity                             | 4500 lm / 3800 lm / 3250 lm |
| 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   | RG1                         |
| Beam angle                                     | 60 °                        |
| UGR                                            | 19                          |



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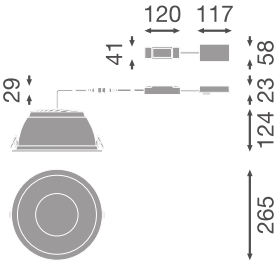
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Adjustable attributes

|                  |                       |
|------------------|-----------------------|
| upper attributes | Array / Array / Array |
|------------------|-----------------------|

Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 265.00 mm |
| Height         | 124.10 mm |
| Product weight | 780.00 g  |



DL CMFT HE D250 P 36W ML

## 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 |
| Type of protection                     | IP44/IP20                  |
| Protection class IK (shock resistance) | IK03                       |
| Dimmable                               | No                         |
| Mounting location                      | Ceiling / Wall             |
| Application environment                | Indoor                     |
| Mounting diameter                      | 250 mm                     |
| Mounting depth                         | 124 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  | 100000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 100000 h               |
| Lifespan L90/B10 at 25 °C  | 63000 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              | 900mA / 750mA / 650 mA |
| ECG - Output ripple current | ≤ 10 %                 |
| Recommended control gear    | P0-PB42ML-4090         |

## Emergency lighting

|                                           |        |
|-------------------------------------------|--------|
| Type of emergency operation test          | None   |
| Wattage in emergency operation mode       | 3 W    |
| Luminous flux in emergency operation mode | 385 lm |

Certificates & Standards

|                                                      |                             |
|------------------------------------------------------|-----------------------------|
| Standards                                            | ENEC / CE / EAC / CB / UKCA |
| 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 December 2025 |
|----------------|------------------------------|

Accessories Optional

| Product image                                                                      | Product name              | EAN           |
|------------------------------------------------------------------------------------|---------------------------|---------------|
|   | DL CMFT FRAME D250 WT     | 4099854500145 |
|  | DL CMFT FRAME D250 GY     | 4099854500183 |
|  | DL CMFT FRAME D250 BK     | 4099854500169 |
|  | DL CMFT EXCH RING D250 GY | 4099854515491 |
|  | DL CMFT EXCH RING D250 BK | 4099854515378 |

EQUIPMENT / ACCESSORIES

- Security rope for luminaire included
- External control gear included
- Connector box with 3-pole terminal included
- Surface mounting frame options available

- Gray and black exchangeable rings available as separate accessory
- Extension rings are available as separate accessory
- Extension ring D190 for retrofitting D150 luminaire, extension ring D240 for retrofitting D200 luminaire

### 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 | User Instruction G11252879 DOWNLIGHT COMFORT HE ON OFF |
|    | Legal information                      | Legal Insert G11120030                                 |
|    | Legal information                      | Safety Insert G11207793                                |
|   | Legal information                      | Informationstext 18 Abs 4 ElektroG                     |
|  | Legal information                      | LSI G11253077 DL CMFT HE                               |
|  | Declarations of conformity             | DL CMFT LUM                                            |
|  | Declarations of conformity UKCA        | DL CMFT LUM                                            |
|  | Certificates                           | ENEC Certificate DL CMFT HE                            |

|                                                                                    | Photometric and lighting design files | Document name                       |
|------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------|
|  | IES file (IES)                        | DL CMFT HE D250 P 36W ML 840 U19 WT |
|  | LDT file (Eulumdat)                   | DL CMFT HE D250 P 36W ML 840 U19 WT |
|  | UGR file (UGR table)                  | DL CMFT HE D250 P 36W ML 840 U19 WT |
|  | Light distribution curve type cone    | DL CMFT HE D250 P 36W ML 840 U19 WT |
|  | Light distribution curve type polar   | DL CMFT HE D250 P 36W ML 840 U19 WT |

| CAD/BIM files                                                                    |             | Document name       |
|----------------------------------------------------------------------------------|-------------|---------------------|
|  | CAD STEP 3D | DL CMFT D250 MS U19 |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854687068 | Folding box<br>1             | 109 mm x 70 mm x 262 mm              | 975.00 g     | 2.00 dm <sup>3</sup>  |
| 4099854687075 | Shipping box<br>4            | 277 mm x 257 mm x 238 mm             | 4900.00 g    | 16.94 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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