

# PRODUCT DATASHEET

## DL UNIV SN D200 V 18W ML 83040 WT

DOWNLIGHT UNIVERSAL SENSOR | Semi-recessed downlights suitable for refurbishment of existing ceiling cut-outs with integrated driver and sensor



### Areas of application

- Direct replacement for recessed luminaires with fluorescent lamps
- Reception areas, foyers, corridors, common areas

### Product benefits

- The solution for convenient refurbishment: universal fitting to existing ceiling cut-outs
- Highly versatile due to selectable CCT and power steps (Multi Color / Multi Lumen)
- Simple installation thanks to integrated driver
- Energy savings thanks to high system efficacy: up to 130 lm/W
- Very homogenous light distribution
- Further variants with on/off and DALI-2 driver available

### Product features

- Presence and daylight sensor control (PIR)
- White polycarbonate luminaires with flat design
- Multi Color function: 3000 K and 4000 K
- Multi Lumen function: 2 power steps selectable
- Multi Cut-out: adjustable mounting springs for ceiling cut-outs from 65 mm up to 260 mm
- Available in two sizes: 200 mm and 300 mm diameter



- High color consistency: < 4 SDCM
- Type of protection: IP44 (room side)
- Suitable for through wiring
- Lifetime (L80/B50): 50,000 h (at 25 °C)

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## TECHNICAL DATA

### Electrical data

|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 18 W / 9 W            |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 50...60 Hz            |
| Nominal current                                             | 83 mA                 |
| Inrush current                                              | 19.8 A                |
| Inrush current time $T_{h50}$                               | 2.4 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 39                    |
| Max. number of luminaires per miniature circuit breaker C10 | 31                    |
| Max. number of luminaires per miniature circuit breaker C16 | 50                    |
| Power factor $\lambda$                                      | 0.90                  |
| Total harmonic distortion                                   | < 40 %                |
| Protection class                                            | II                    |
| Operating mode                                              | Integrated LED driver |

### Photometrical data

|                                                              |                                       |
|--------------------------------------------------------------|---------------------------------------|
| Luminous flux                                                | 2300 lm / 2220 lm / 1180 lm / 1150 lm |
| Luminous efficacy                                            | 130 lm/W / 125 lm/W / 135 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                                     | > 80                                  |
| Standard deviation of color matching                         | < 4 sdcm                              |
| Low flicker                                                  | Yes                                   |
| Flickering metric (Pst LM)                                   | <1                                    |
| Stroboscope effect metric (SVM)                              | <0.4                                  |
| Photobiological safety group acc. to EN62778                 | RG0                                   |
| Beam angle                                                   | 110 °                                 |



|                                            |        |
|--------------------------------------------|--------|
| 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 |
| Type of protection                     | IP44/IP20          |
| Protection class IK (shock resistance) | IK03               |
| Dimmable                               | No                 |
| Mounting type                          | Surface/Recessed   |
| Mounting location                      | Ceiling            |
| Application environment                | Indoor             |
| Mounting diameter                      | 65...185 mm        |
| Mounting depth                         | 22,0 mm            |
| Adjustable                             | No                 |
| 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  | 50000 h <sup>1)</sup>  |
| Lifespan L80/B50 at 25 °C  | 50000 h                |
| Lifespan L90/B10 at 25 °C  | 40000 h                |
| Number of switching cycles | 25000                  |

<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              | 180mA / 90 mA |
| ECG - Output ripple current | < 10 %        |

### Sensor

|                                  |                        |
|----------------------------------|------------------------|
| Type of sensor                   | Motion / Light         |
| Sensor technology                | Passive infrared (PIR) |
| Sensor detection angle           | 120 °                  |
| Sensor controlled switching time | 5 s...3 min            |

|                                        |            |
|----------------------------------------|------------|
| Detection range of motion sensor       | 3...6 m    |
| Detection threshold of daylight sensor | 10...40 lx |

### Emergency lighting

|                                  |      |
|----------------------------------|------|
| Type of emergency operation test | None |
|----------------------------------|------|

### Certificates & Standards

|                                                      |                        |
|------------------------------------------------------|------------------------|
| Standards                                            | CE / ENEC / UKCA / EAC |
| 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 July 2025 |
| Added function | MULTI SELECT             |

### Accessories Optional

| Product image                                                                       | Product name            | EAN           |
|-------------------------------------------------------------------------------------|-------------------------|---------------|
|  | DL UNIV SN RING D200 BK | 4099854559457 |
|  | DL UNIV SN RING D200 BN | 4099854559471 |

### EQUIPMENT / ACCESSORIES

- Additional cover rings separately available in round shape and in different colors
- Safety rope for luminaire included

### 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 | G11249993 DOWNLIGHT UNIVERSAL                        |
|    | Legal information                      | Informationstext 18 Abs 4 ElektroG                   |
|    | Legal information                      | LUM PANELS_SI                                        |
|    | Legal information                      | G11252354 Light source insert                        |
|    | Declarations of conformity             | DL UNIV Recessed luminaire                           |
| Photometric and lighting design files                                              |                                        | Document name                                        |
|    | IES file (IES)                         | DL UNIV SN D200 V 18W MS 830 WT LEDV                 |
|    | IES file (IES)                         | DL UNIV SN D200 V 18W MS 840 WT LEDV                 |
|   | LDT file (Eulumdat)                    | DL UNIV SN D200 V 18W MS 830 WT LEDV                 |
|  | LDT file (Eulumdat)                    | DL UNIV SN D200 V 18W MS 840 WT LEDV                 |
|  | UGR file (UGR table)                   | DL UNIV SN D200 V 18W MS 830 WT LEDV                 |
|  | UGR file (UGR table)                   | DL UNIV SN D200 V 18W MS 840 WT LEDV                 |
|  | Light distribution curve type cone     | DL UNIV SN D200 V 18W MS 830 WT LEDV                 |
|  | Light distribution curve type cone     | DL UNIV SN D200 V 18W MS 840 WT LEDV                 |
|  | Light distribution curve type polar    | DL UNIV SN D200 V 18W MS 830 WT LEDV                 |
|  | Light distribution curve type polar    | DL UNIV SN D200 V 18W MS 840 WT LEDV                 |
| CAD/BIM files                                                                      |                                        | Document name                                        |
|  | CAD STEP 3D                            | DL UNIV SN D200                                      |
| Tender texts                                                                       |                                        | Document name                                        |
|  | Tender documents                       | DOWNLIGHT UNIVERSAL SENSOR D200 V 18W ML 83040 WT-en |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854541414 | Folding box<br>1             | 245 mm x 235 mm x 60 mm              | 606.00 g     | 3.45 dm <sup>3</sup>  |
| 4099854541421 | Shipping box<br>14           | 509 mm x 447 mm x 262 mm             | 9534.00 g    | 59.61 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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