

# PRODUCT DATASHEET

## DL UNIV DA D300 V 22W ML 83040 WT

DOWNLIGHT UNIVERSAL DALI | Semi-recessed downlights suitable for refurbishment of existing ceiling cut-outs with external DALI-2 driver



### 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)
- External DALI-2 driver included for flexible lumen settings via dip switch on device
- Energy savings thanks to high system efficacy: up to 140 lm/W
- Very homogenous light distribution
- Further variants with on/off and sensor available

### Product features

- 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/B10): up to 50,000 h (at 25 °C)

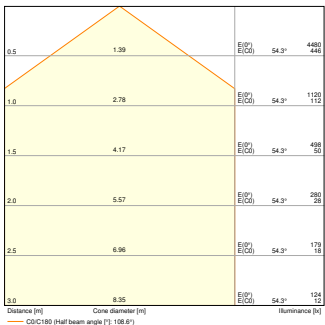
## TECHNICAL DATA

### Electrical data

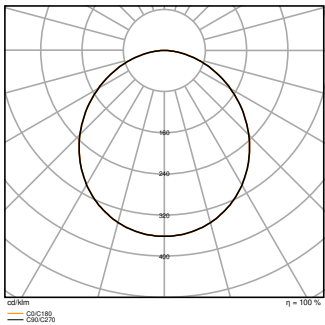
|                                                             |                     |
|-------------------------------------------------------------|---------------------|
| Nominal wattage                                             | 22 W / 15 W         |
| Nominal voltage                                             | 220...240 V         |
| Mains frequency                                             | 0/50/60 Hz          |
| Nominal current                                             | 98 mA               |
| Inrush current                                              | 39.2 A              |
| Inrush current time $T_{h50}$                               | 7.44 $\mu$ s        |
| Max. number of luminaires per miniature circuit breaker B16 | 19                  |
| Max. number of luminaires per miniature circuit breaker C10 | 15                  |
| Max. number of luminaires per miniature circuit breaker C16 | 24                  |
| Power factor $\lambda$                                      | 0.90                |
| Total harmonic distortion                                   | < 15 %              |
| Protection class                                            | II                  |
| Operating mode                                              | External LED driver |
| Dimming interface                                           | DALI-2 / IoT        |

### Photometrical data

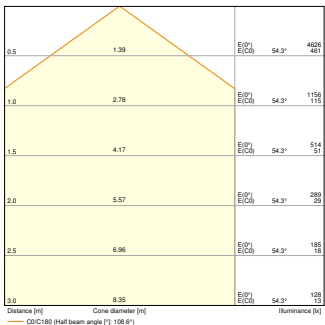
|                                                              |                                       |
|--------------------------------------------------------------|---------------------------------------|
| Luminous flux                                                | 3000 lm / 2850 lm / 2100 lm / 2020 lm |
| Luminous efficacy                                            | 135 lm/W / 130 lm/W / 140 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 sdc <sub>m</sub>                  |
| Low flicker                                                  | Yes                                   |
| Flickering metric (Pst LM)                                   | <1                                    |
| Stroboscope effect metric (SVM)                              | <0.4                                  |
| Photobiological safety group acc. to EN62778                 | RG0                                   |
| Beam angle                                                   | 110 °                                 |



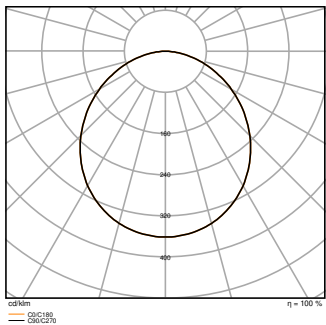
DL UNIV DA D300 V 22W MS 830  
WT LEDV



DL UNIV DA D300 V 22W MS 840  
WT LEDV



DL UNIV DA D300 V 22W MS 840  
WT LEDV



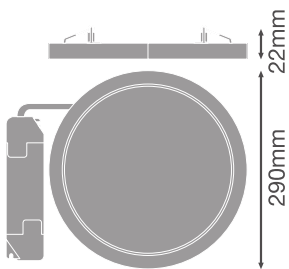
DL UNIV DA D300 V 22W MS 830  
WT LEDV

Adjustable attributes

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

Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 290.00 mm |
| Height         | 22.00 mm  |
| Product weight | 835.00 g  |



DL UNIV DA D300 V 22W ML  
83040 WT

Materials & Colors

|                                            |                    |
|--------------------------------------------|--------------------|
| Product color                              | White              |
| Housing color                              | White              |
| RAL Color (most similar)                   | RAL 9003           |
| Body 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                                         |
| Type of protection                     | IP44/IP20                                                  |
| Protection class IK (shock resistance) | IK03                                                       |
| Dimmable                               | Yes                                                        |
| Type of dimming                        | DALI                                                       |
| IoT ready                              | Support of DALI data type PART 251, 252, 253 <sup>1)</sup> |
| Mounting type                          | Recessed                                                   |
| Mounting location                      | Ceiling                                                    |
| Application environment                | Indoor                                                     |
| Mounting diameter                      | 65...260 mm                                                |
| Mounting depth                         | 22,0 mm                                                    |
| Adjustable                             | No                                                         |
| 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 <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                  |

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              | 500mA / 350 mA           |
| ECG - Output ripple current | < 10 %                   |
| ECG - Length                | 105.00 mm                |
| ECG - Width                 | 45.00 mm                 |
| ECG - Height                | 25.00 mm                 |
| Recommended control gear    | DR DALI-P-30 220-240 700 |

### 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

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

### Accessories Optional

| Product image                                                                       | Product name         | EAN           |
|-------------------------------------------------------------------------------------|----------------------|---------------|
|  | DL UNIV RING D300 BK | 4099854541537 |

| Product image                                                                     | Product name         | EAN           |
|-----------------------------------------------------------------------------------|----------------------|---------------|
|  | DL UNIV RING D300 BN | 4099854541612 |

## 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                      | Safety Insert G11207793              |
|  | Legal information                      | G11252354 Light source insert        |
|  | Legal information                      | Legal insert DL UNIV                 |
|  | Declarations of conformity             | CE declaration DL UNIV               |
|  | Declarations of conformity UKCA        | UKCA declaration DL UNIV             |
|  | EU Data Act                            | DALI LED Driver and Luminaires       |
| Photometric and lighting design files                                              |                                        | Document name                        |
|  | IES file (IES)                         | DL UNIV DA D300 V 22W MS 830 WT LEDV |

| Photometric and lighting design files                                              |                                     | Document name                                      |
|------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------|
|    | IES file (IES)                      | DL UNIV DA D300 V 22W MS 840 WT LEDV               |
|    | LDT file (Eulumdat)                 | DL UNIV DA D300 V 22W MS 830 WT LEDV               |
|    | LDT file (Eulumdat)                 | DL UNIV DA D300 V 22W MS 840 WT LEDV               |
|    | UGR file (UGR table)                | DL UNIV DA D300 V 22W MS 830 WT LEDV               |
|    | UGR file (UGR table)                | DL UNIV DA D300 V 22W MS 840 WT LEDV               |
|    | Light distribution curve type cone  | DL UNIV DA D300 V 22W MS 830 WT LEDV               |
|    | Light distribution curve type cone  | DL UNIV DA D300 V 22W MS 840 WT LEDV               |
|    | Light distribution curve type polar | DL UNIV DA D300 V 22W MS 830 WT LEDV               |
|    | Light distribution curve type polar | DL UNIV DA D300 V 22W MS 840 WT LEDV               |
| CAD/BIM files                                                                      |                                     | Document name                                      |
|   | BIM Revit 3D                        | Downlight-Universal                                |
|  | CAD STEP 3D                         | DL UNIV D300                                       |
| Tender texts                                                                       |                                     | Document name                                      |
|  | Tender documents                    | DOWNLIGHT UNIVERSAL DALI D300 V 22W ML 83040 WT-en |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854541377 | Folding box<br>1             | 305 mm x 295 mm x 60 mm              | 1004.00 g    | 5.40 dm <sup>3</sup>  |
| 4099854541384 | Shipping box<br>8            | 509 mm x 321 mm x 322 mm             | 8866.00 g    | 52.61 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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