# PRODUCT DATASHEET
# SF DISC EL DA 300 V 21W 83040

SURFACE DISC EMERGENCY DALI | Modern DALI-2 wall and ceiling luminaire with Multi Color and Emergency lighting function



## Areas of application

- Emergency illumination of escape routes
- Antipanic lighting
- Direct replacement for surface luminaires with integrated CFLni lamps
- Corridors
- Stairways
- Bathrooms
- Foyers

## Product benefits

- Operation of integrated emergency lighting function with long life LiFePO4 battery with 3h battery discharge time
- Suitable luminaire for VIVARES and other DALI-2 Light Management Systems
- Extended services such as energy monitoring and remote maintenance possible with DALI versions
- Highly versatile due to selectable CCT (Multi Color) in 3000K and 4000K
- Indoor luminaire with high luminous efficacy up to 120 lm/W
- High color consistency with SDCM 3
- Tool-free electrical connection due to push button connector
- Easy locking system to prevent unauthorized access

## Product features

- Luminaire suitable for normal lighting and emergency lighting
- IoT-ready luminaire with DALI-2 technology
- Type of protection: IP54 (wall and ceiling)
- Impact resistance: IK10
- Lifetime (L80/B10): up to 75,000 h (at 25 °C)
- Ambient temperature in operation: -20…+45 °C
- Glow Wire Test according to IEC 60695-2-12: 850 °C


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- 5-pole terminal block, cable cross section up to 5 x 2.5 $mm^2$
- Through-wiring possible
- Indoor use only, not suitable for outdoor use
- SF DISC family versions available: dimmable, on/off, DALI-2, sensor and/or emergency lighting function


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# TECHNICAL DATA

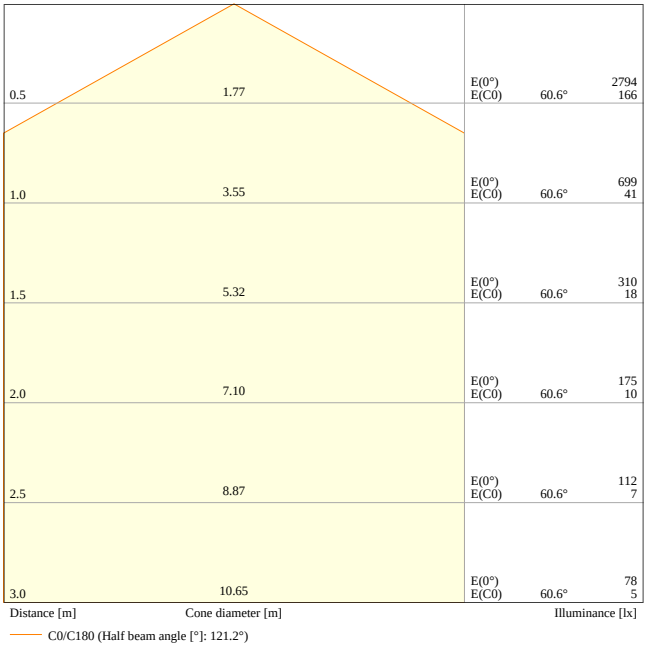
## Electrical data

| | |
|---|---|
| Nominal wattage | 21.00 W |
| Nominal voltage | 220…240 V |
| Mains frequency | 50/60 Hz |
| Nominal current | 100 mA |
| Inrush current | 25 A |
| Inrush current time $T_{h50}$ | 140 µs |
| Max. number of luminaires per miniature circuit breaker B16 | 24 |
| Max. number of luminaires per miniature circuit breaker C10 | 19 |
| Max. number of luminaires per miniature circuit breaker C16 | 30 |
| Power factor λ | > 0.90 |
| Maximum total harmonic distortion | < 20 % |
| Protection class | II |
| Surge capability (L-N) | 1000 V |
| Operating mode | Integrated LED driver |
| Dimming interface | DALI-2 / Push-DIM |

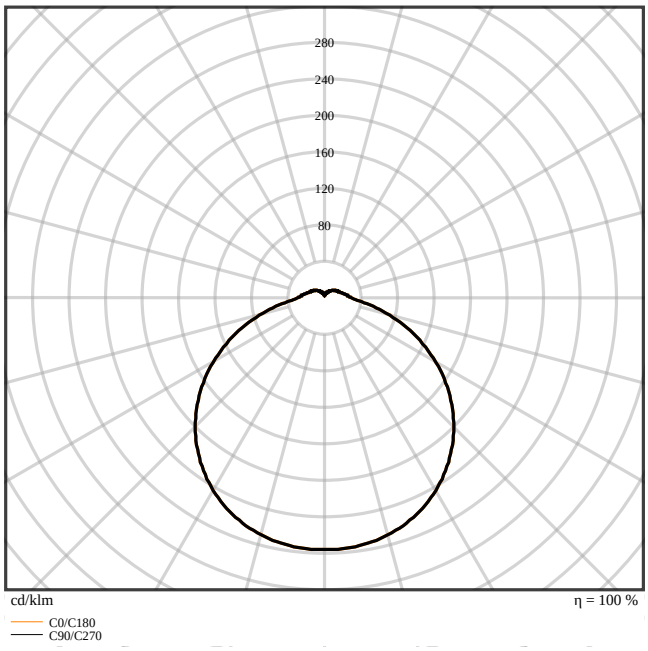
## Photometrical data

| | |
|---|---|
| Luminous flux | 2520 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 | > 80 |
| 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 | RG0 |
| Beam angle | 125 ° |


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SF DISC 300 V 21W 840



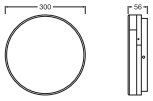

SF DISC 300 V 21W 840

## Adjustable attributes

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|---|---|---|---|
| 21 W | 3000 K | 2394 lm | 114 lm/W |
| 21 W | 4000 K | 2520 lm | 120 lm/W |

## Dimensions & Weight

| | |
|---|---|
| Diameter | 300.00 mm |
| Height | 56.00 mm |
| Product weight | 1375.00 g |




SF DISC 300 V 21W


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## Materials & Colors

| | |
|---|---|
| Product color | White |
| Housing color | White |
| RAL Color (most similar) | RAL 9003 |
| Body material | Polycarbonate (PC) |
| Cover material | Polycarbonate (PC) |
| Light emitting surface material | Polycarbonate (PC) |
| Glow Wire Test according to IEC 60695-2-12 | 850 °C |
| Mercury content | 0.0 mg |

## Application & Mounting

| | |
|---|---|
| Ambient temperature range | -20…+45 °C |
| Temperature range at storage | -20…+80 °C |
| Type of connection | Push-in clamp |
| Type of protection | IP54 |
| Protection class IK (shock resistance) | IK10 |
| Dimmable | Yes |
| Type of dimming | DALI-2 |
| Dimming range | 1…100 % |
| IoT ready | Support of DALI data type PART 251, 252, 253 [1)] |
| Mounting type | Surface |
| Mounting location | Ceiling / Wall |
| Application environment | Indoor |
| Mechanically 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 [1)] |
| Lifespan L80/B10 at 25 °C | 75000 h [1)] |
| Lifespan L80/B50 at 25 °C | 75000 h |
| Lifespan L90/B10 at 25 °C | 55000 h [1)] |
| Number of switching cycles | 50000 |

1) t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)


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## Control gear

| | |
|---|---|
| Output current | 500 mA |
| Output ripple current (100 Hz) | < 5 % |

## BATTERY

| | |
|---|---|
| Type of Battery | LiFePO4 |
| Battery size [GMS] | Others |
| Nominal voltage of battery | 3.2 V |
| Nominal capacity of battery | 3000 mAh |
| Battery charging time | 24 h |

## Emergency lighting

| | |
|---|---|
| Type of Emergency Lighting (EL) | EL unit (battery and controller) for decentral operation included |
| Area of emergency application | Anti-panic lighting / Escape route lighting |
| Type of emergency light operation | Non-maintained / Maintained |
| Type of emergency operation test | Automatic |
| Wattage in maintained operation mode | 1.5 W |
| Wattage in emergency operation mode | 1.5 W |
| Luminous flux in maintained operation mode | 180 lm |
| Luminous flux in emergency operation mode | 180 lm |
| Battery life in emergency operation mode | 3 h |

## Certificates & Standards

| | |
|---|---|
| Standards | CE / CB / UKCA / EAC / ENEC / EL |
| Luminaire with limited surface temperature, "D sign" | No |
| Ball shot safe | No |
| Replaceable light source (EPREL) | Only by an expert |

## Additional product data

| | |
|---|---|
| Added function | MULTI COLOR / VIVARES |

## Components for light control

| |
|---|
| Components Light Control |


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| Product image | Product name | EAN |
|---|---|---|
|  | MANUAL CONTROL UNIT GROUP DALI-2 TW | 4099854748691 |
|  | MANUAL CONTROL UNIT SELECT DALI-2 | 4058075837485 |
|  | MANUAL CONTROL UNIT SELECT DALI-2 TW | 4058075837508 |
|  | MANUAL CONTROL UNIT SELECT DALI-2 EXCHANGEABLE COVER TW | 4058075837522 |
|  | MANUAL CONTROL UNIT TOUCH DALI-2 TW | 4058075837560 |
|  | MANUAL CONTROL UNIT TOUCH DALI-2 | 4058075837546 |
|  | PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW | 4058075837584 |
|  | PUSH CONTROL UNIT FM DALI-2 DIM | 4099854846922 |
|  | SURFACE MOUNT FRAME | 4058075843561 |
|  | PUSHBUTTON COUPLER DALI-2 | 4058075837607 |
|  | FLEX CONTROL UNIT IOT DALI-2 HCL TW | 4058075841888 |


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| Product image | Product name | EAN |
|---|---|---|
|  | FLEX CONTROL UNIT FLUSH MOUNT DALI-2 TW | 4058075841901 |
|  | FLEX CONTROL UNIT DALI-2 TW | 4058075843844 |
|  | FLEX CONTROL UNIT REAL-TIME-CLOCK DALI-2 HCL TW | 4058075841925 |
|  | SENSOR DALI-2 LIGHT/PRESENCE-6 INFRARED CEILING INTEGRATION | 4058075837621 |
|  | SENSOR CEILING MOUNTING KIT LIGHT/PRESENCE-6 | 4099854748714 |
|  | SENSOR DALI-2 LIGHT/PRESENCE-8 INFRARED CEILING INTEGRATION | 4058075841949 |
|  | SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION | 4058075843868 |
|  | SENSOR DALI-2 LIGHT/PRESENCE-24 INFRARED CEILING MOUNTING | 4058075843882 |
|  | HIGHBAY SENSOR DALI-2 LIGHT/PRESENCE -21 INFRARED CEILING MOUNTING | 4058075857537 |
|  | DALI sensors -8 IR CI, -40X5 IR CI, -24 IR CM, -21 IR CM | 4058075843905 |
|  | RELAY DALI-2 RAIL MOUNTING | 4099854709159 |


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| Product image | Product name | EAN |
|---|---|---|
|  | RELAY DALI-2 CEILING MOUNTING | 4099854709135 |
|  | REPEATER DALI-2 RAIL MOUNTING | 4099854709111 |
|  | REPEATER DALI-2 CEILING MOUNTING | 4099854709098 |

## EQUIPMENT / ACCESSORIES

- Mounting screws and dowels included

## Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.

## DOWNLOAD DATA

| | Documents and certificates | Document name |
|---|---|---|
| PDF | User instruction / safety instructions | G11247951 SF DISC EL |
| PDF | Legal information | G11251584 Light Source Insert |
| PDF | Legal information | Safety Insert G11218810 |
| PDF | Legal information | Legal Insert G11252362 |
| PDF | Legal information | ECO PANEL |
| PDF | Declarations of conformity | SF DISC |
| PDF | Declarations of conformity UKCA | SF DICS |
| PDF | EU Data Act | DALI LED Driver and Luminaires |


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| | Photometric and lighting design files | Document name |
|---|---|---|
| | IES file (IES) | SF DISC 300 V 21W 840 |
| | LDT file (Eulumdat) | SF DISC 300 V 21W 840 |
| | UGR file (UGR table) | SF DISC 300 V 21W 840 |
| | Light distribution curve type cone | SF DISC 300 V 21W 840 |
| | Light distribution curve type polar | SF DISC 300 V 21W 840 |

| | CAD/BIM files | Document name |
|---|---|---|
| | BIM Revit 3D | Surface Disc |
| | CAD STEP 3D | SF DISC 300 V 21W |
| | CAD STEP 3D | SF DISC 300V |

| | Tender texts | Document name |
|---|---|---|
| | Tender documents | SURFACE DISC EMERGENCY DALI EL DA 300 V 21W 83040-en |

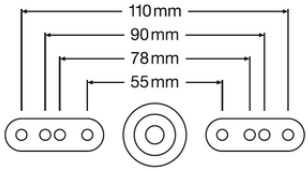
## LOGISTICAL DATA

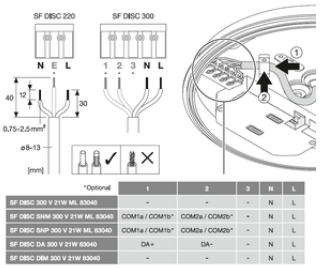
| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4099854640629 | Folding box<br>1 | 63 mm x 310 mm x 310 mm | 1545.00 g | 6.05 $dm^3$ |
| 4099854640636 | Shipping box<br>6 | 397 mm x 332 mm x 344 mm | 10150.00 g | 45.34 $dm^3$ |

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.


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## ADDITIONAL CATALOG INFORMATION




| SURFACE DISC 220 | | | | | | |
|---|---|---|---|---|---|---|
| *P [W] | 7 | | 9 | | 14 | |
| CCT [K] | 3000 | 4000 | 3000 | 4000 | 3000 | 4000 |
| **Phi_v [lm] | 680 | 720 | 1020 | 1080 | 1600 | 1680 |
| ***Eff. [lm/W] | 97 | 103 | 113 | 120 | 114 | 120 |

| SURFACE DISC 300 | | | | | | |
|---|---|---|---|---|---|---|
| *P [W] | 9 | | 15 | | 21 | |
| CCT [K] | 3000 | 4000 | 3000 | 4000 | 3000 | 4000 |
| **Phi_v [lm] | 1030 | 1080 | 1710 | 1800 | 2394 | 2520 |
| ***Eff. [lm/W] | 114 | 120 | 114 | 120 | 114 | 120 |

| SF DISC 300 DIM / DALI | | |
|---|---|---|
| *P [W] | 21 | |
| CCT [K] | 3000 | 4000 |
| **Phi_v [lm] | 2394 | 2520 |
| ***Eff. [lm/W] | 114 | 120 |

## References / Links

– For Guarantee see www.ledvance.com/guarantee

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