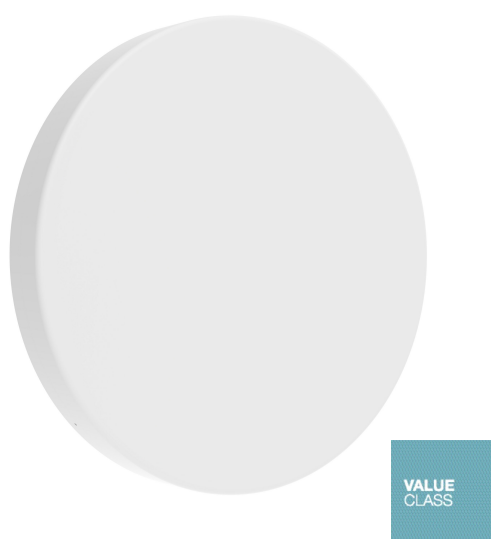


# PRODUCT DATASHEET

## SF DISC EL SNM 300 V 21W ML 83040

SURFACE DISC EMERGENCY SENSOR MICROWAVE | Modern wall and ceiling luminaire with microwave sensor, Multi Color, Multi Lumen 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
- Multiple sensor settings by DIP switch: range, daylight detection, hold time and DIM-level /-period
- Optional wired leader/follower function
- Highly versatile due to selectable CCT and power steps (Multi Color / Multi Lumen) on the driver
- 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
- Suitable for central battery emergency installations acc. to EN 60598-2-22
- High frequency sensor for daylight, motion detection and corridor function
- Type of protection: IP54 (wall and ceiling)



- Impact resistance: IK10
- Lifetime (L80/B10): up to 75,000 h (at 25 °C)
- Polycarbonate (PC) housing, PC-diffuser
- Ambient temperature in operation: -20...+45 °C
- Glow Wire Test according to IEC 60695-2-12: 850 °C
- 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

## TECHNICAL DATA

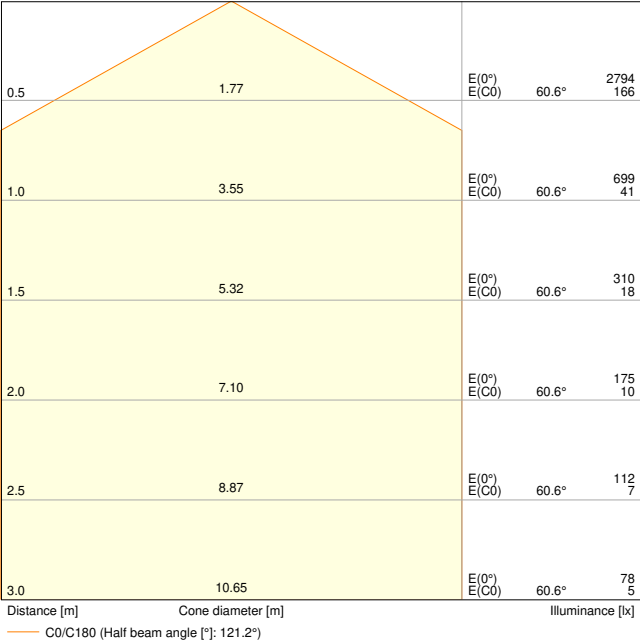
### Electrical data

|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 21 W / 15 W / 9 W     |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 50/60 Hz              |
| Nominal current                                             | 100 mA                |
| Inrush current                                              | 10 A                  |
| Inrush current time $T_{h50}$                               | 250 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 25                    |
| Max. number of luminaires per miniature circuit breaker C10 | 25                    |
| Max. number of luminaires per miniature circuit breaker C16 | 40                    |
| Power factor $\lambda$                                      | > 0.90                |
| Total harmonic distortion                                   | < 20 %                |
| Protection class                                            | II                    |
| Surge capability (L-N)                                      | 1000 V                |
| Operating mode                                              | Integrated LED driver |

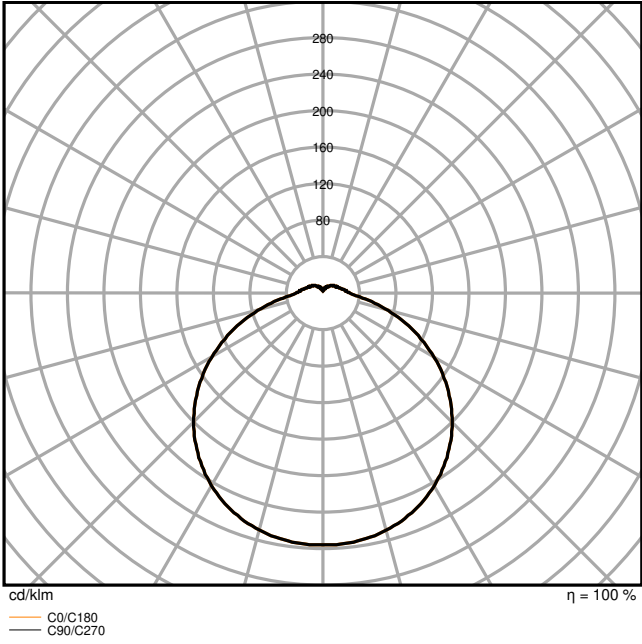
### Photometrical data

|                                                              |                                           |
|--------------------------------------------------------------|-------------------------------------------|
| Luminous flux                                                | 2520 lm / 1800 lm / 1080 lm <sup>1)</sup> |
| 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 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                                                   | 125 °                                     |

<sup>1)</sup> 2394 lm / 1710 lm / 1030 lm @3000K



SF DISC 300 V 21W 840



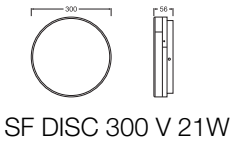
SF DISC 300 V 21W 840

Adjustable attributes

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|-----------------|-------------------|---------------|-------------------|
| 9 W             | 3000 K            | 1030 lm       | 114 lm/W          |
| 9 W             | 4000 K            | 1080 lm       | 120 lm/W          |
| 15 W            | 3000 K            | 1710 lm       | 114 lm/W          |
| 15 W            | 4000 K            | 1800 lm       | 120 lm/W          |
| 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 | 1330.00 g |



## Materials & Colors

|                                            |                    |
|--------------------------------------------|--------------------|
| Product color                              | White              |
| Housing color                              | White              |
| RAL-Number                                 | 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                               | No             |
| Mounting type                          | Surface        |
| Mounting location                      | Ceiling / Wall |
| Application environment                | Indoor         |
| 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  | 75000 h <sup>1)</sup>  |
| Lifespan L80/B50 at 25 °C  | 75000 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              | 500 mA |
| ECG - Output ripple current | < 5 %  |

## Sensor

|                                        |            |
|----------------------------------------|------------|
| Type of sensor                         | Motion     |
| Sensor technology                      | Microwave  |
| Sensor detection angle                 | 120 °      |
| Sensor controlled switching time       | 5 s...20 s |
| Detection range of motion sensor       | 2...6 m    |
| Detection threshold of daylight sensor | 5...170 lx |

## 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 / RED |
| Luminaire with limited surface temperature, "D sign" | No                                     |
| Ball shot safe                                       | No                                     |
| Replaceable light source (EPREL)                     | Only by an expert                      |

## Additional product data

|                |                              |
|----------------|------------------------------|
| Product remark | Available from December 2025 |
|----------------|------------------------------|

## 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

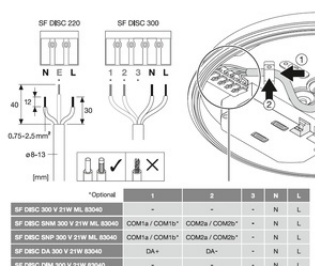
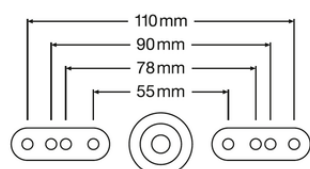
| Documents and certificates                                                         |                                        | Document name                 |
|------------------------------------------------------------------------------------|----------------------------------------|-------------------------------|
|    | User instruction / safety instructions | G11247951 SF DISC EL          |
|    | Legal information                      | G11251584 Light Source Insert |
|    | Legal information                      | Safety Insert G11252364       |
|    | Legal information                      | Legal Insert G11252361        |
|    | Legal information                      | German Insert G11212367       |
| 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                  |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854640582 | Folding box<br>1             | 63 mm x 310 mm x 310 mm              | 1500.00 g    | 6.05 dm <sup>3</sup>  |
| 4099854640599 | Shipping box<br>6            | 397 mm x 332 mm x 344 mm             | 9880.00 g    | 45.34 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.

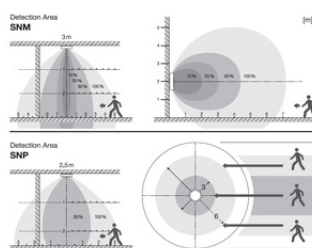
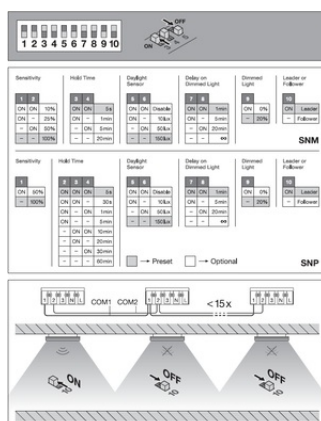
## ADDITIONAL CATALOG INFORMATION



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

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

| 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](http://www.ledvance.com/guarantee)

## DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.