

# PRODUCT DATASHEET

## SF CIRC 250 SEN V 13W 840 IP44

SURFACE CIRCULAR 250 SENSOR | Wall and ceiling luminaire with IP44 and high frequency sensor



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### Areas of application

- Corridors
- Stairways
- Bathrooms
- Foyers

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### Product benefits

- Easy adjustment of sensor range, daylight detection and hold time
- Indoor luminaire with high luminous efficacy
- Energy savings of up to 55 % compared to luminaires that use CFL
- Easy and quick installation
- Very homogenous light
- 3 years guarantee

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### Product features

- High frequency sensor for daylight and motion detection
- Type of protection: IP44 (ceiling mounting), IP20 (wall mounting)
- Impact resistance: IK03
- Metal housing, PMMA cover
- Ambient temperature in operation: -20...+40 °C
- Indoor use only, not suitable for outdoor use

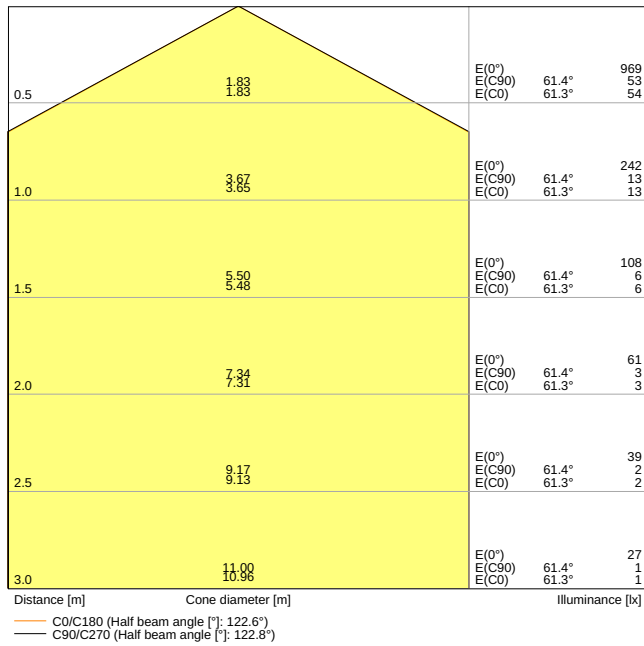
## TECHNICAL DATA

### Electrical data

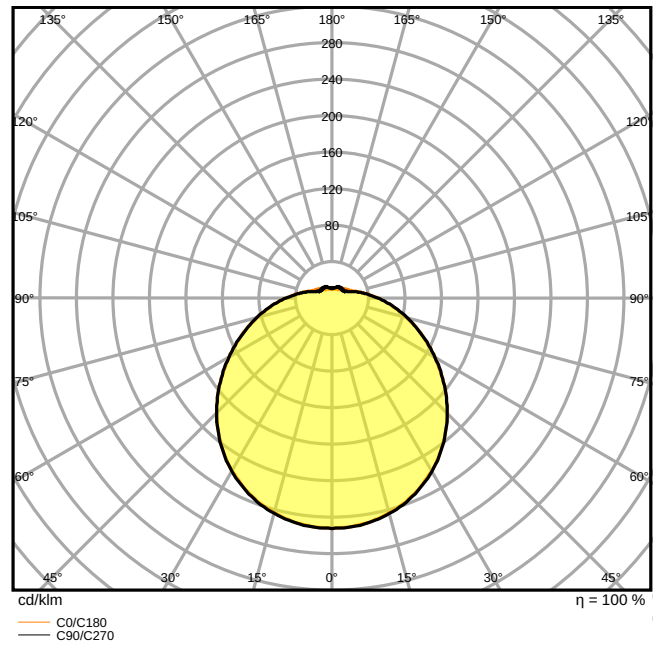
|  |                       |
|--|-----------------------|
| Nominal wattage                          | 13.00 W               |
| Nominal voltage                          | 220...240 V           |
| Mains frequency                          | 50...60 Hz            |
| Nominal current                          | 100 mA                |
| Inrush current                           | 6.7 A                 |
| Inrush current time $T_{h50}$            | 228 $\mu$ s           |
| Max. no. of lum. on circuit break. B16 A | 75                    |
| Max. no. of lum. on circuit break. C10 A | 58                    |
| Max. no. of lum. on circuit break. C16 A | 94                    |
| Power factor $\lambda$                   | > 0.55                |
| Total harmonic distortion                | < 120 %               |
| Protection class                         | I                     |
| Operating mode                           | Integrated LED driver |

### Photometrical data

|  |                      |
|--|----------------------|
| Luminous flux                                | 960 lm               |
| Luminous efficacy                            | 75 lm/W              |
| Color temperature                            | 4000 K               |
| Light color (designation)                    | Cool White           |
| Color rendering index Ra                     | > 80                 |
| Standard deviation of color matching         | < 6 sdc <sub>m</sub> |
| Luminous intensity                           | -                    |
| Low flicker                                  | Yes                  |
| Flickering metric (Pst LM)                   | -                    |
| Stroboscope effect metric (SVM)              | -                    |
| Photobiological safety group acc. to EN62778 | RG0                  |
| Photobiological safety group acc. to EN62471 | RG0                  |
| Beam angle                                   | 120 °                |



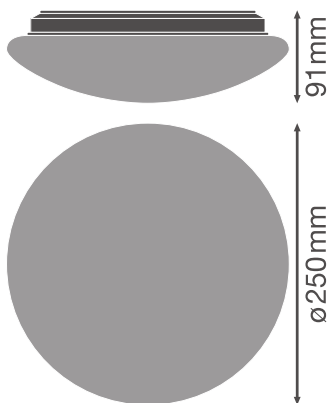
LDC typ cone



LDC typ polar

Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 250.00 mm |
| Height         | 91.00 mm  |
| Product weight | 390.00 g  |



Materials & Colors

|               |       |
|---------------|-------|
| Product color | White |
| Housing color | White |

|  |                               |
|--|-------------------------------|
| Body material                              | Steel                         |
| Cover material                             | Polymethylmethacrylate (PMMA) |
| Light emitting surface material            | PMMA                          |
| 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                     | Terminal, 3-pin    |
| Type of protection                     | IP44 <sup>1)</sup> |
| Protection class IK (shock resistance) | IK03               |
| Dimmable                               | No                 |
| Mounting type                          | Surface            |
| Mounting location                      | Ceiling / Wall     |
| Application environment                | Indoor             |
| LED module replaceable                 | Not replaceable    |
| With light source                      | Yes                |

<sup>1)</sup> Type of protection: IP44 (ceiling mounting), IP20 (wall mounting)

### Lifespan

|                            |         |
|----------------------------|---------|
| Lifespan L70/B50 at 25 °C  | 30000 h |
| Lifespan L80/B10 at 25 °C  | 22000 h |
| Lifespan L90/B10 at 25 °C  | 15000 h |
| Number of switching cycles | 50000   |

### Control gear

|                |        |
|----------------|--------|
| Output current | 145 mA |
|----------------|--------|

### Sensor

|  |                |
|--|----------------|
| Type of sensor                         | Motion / Light |
| Sensor technology                      | Microwave      |
| Sensor detection angle                 | 120 °          |
| Sensor controlled switching time       | 5 s...30 min   |
| Detection range of motion sensor       | 4...7 m        |
| Detection threshold of daylight sensor | 2...50 lx      |
| Sensor IP rating                       | IP44           |

### Certificates & Standards

|           |                         |
|-----------|-------------------------|
| Standards | CE / CB / TÜV SÜD / EAC |
|-----------|-------------------------|

|  |    |
|--|----|
| Luminaire with limited surface temperature, "D sign" | No |
| Ball shot safe                                       | No |













### Additional product data

|                |                               |
|----------------|-------------------------------|
| Product remark | Available from September 2021 |
|----------------|-------------------------------|

### EQUIPMENT / ACCESSORIES

- Replacement cover optional available

### DOWNLOAD DATA

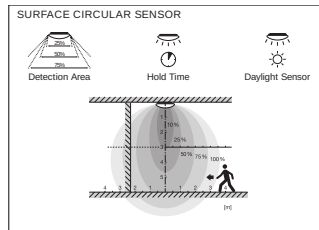
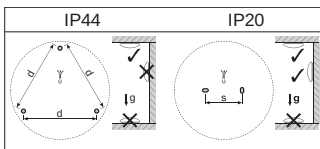
| DOWNLOAD DATA   |   |
|---|---|
|     | User instruction<br>SURFACE CIRCULAR SENSOR                     |
|     | Addon Technical Information<br>LS Insert SF Circular            |
|    | Addon Technical Information<br>LS Insert SF Circular            |
|  | Tender documents<br>Tender Text 4058075314917                   |
|  | Tender documents<br>SURFACE CIRCULAR 250 SENSOR 13W 840 IP44-EN |
|  | Tender documents<br>SURFACE CIRCULAR 250 SENSOR 13W 840 IP44-EN |
|   | Declarations of conformity                                      |
|   | Declarations of conformity<br>SF CIRC SEN                       |
|  | IES file (IES)<br>SF CIRC 250 SEN V 13W 840 IP44                |
|  | LDT file (Eulumdat)<br>SF CIRC 250 SEN V 13W 840 IP44           |
|  | R3D file (Relux 3D Model)<br>Surface circular 250               |
|  | M3D file (3D Model)<br>Surface_Circular_250                     |
|  | UGR file (UGR table)<br>SF CIRC 250 SEN V 13W 840 IP44          |

### LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075617926 | Folding box<br>1             | 280 mm x 282 mm x 98 mm              | 308.00 g     | 7.74 dm <sup>3</sup>  |
| 4058075617933 | Shipping box<br>5            | 525 mm x 305 mm x 315 mm             | 2162.00 g    | 50.44 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



### References / Links

- For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

### DISCLAIMER

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