

# PRODUCT DATASHEET

## SF BLKH 250 P EM 10W 840 WT IP65

SURFACE BULKHEAD 250 EMERGENCY | Robust wall and ceiling luminaire with IP65 protection and integrated emergency lighting function



### Areas of application

- Emergency illumination of escape routes
- Antipanic lighting
- Buildings requiring up to 3 h emergency light operation
- Direct replacement for luminaires with fluorescent lamps
- Corridors, stairways, entrance areas
- Passages, underpasses
- Public areas

### Product benefits

- Seamless integration of luminaires with emergency lighting function into general lighting
- Easy wiring thanks to included prewired driver and battery for Emergency lighting function
- Simple testing of luminaires with emergency lighting function thanks to integrated automatic test function
- Separate covers available for an aesthetic and functional product design
- 3 years guarantee
- High luminous efficacy in normal operation
- Convenient visualization of results of automatic test with an included control LED
- Operation of integrated emergency lighting function with long life LiFePO4 battery with 3h battery discharge time
- Suitable for use in dusty and damp locations thanks to high IP rating
- Suitable for use in public areas thanks to high IK rating
- Multiple mounting patterns for convenient installation
- Energy savings of up to 50 % (compared to luminaires that use fluorescent lamps)

### Product features

- Certified according to European norms (EN 60598-1:2015; EN 60598-2-22:2014)
- Luminaire suited for normal lighting and emergency lighting
- Self-contained luminaires
- Emergency lighting function: battery discharge time of 3 h
- Function test of emergency lighting: automatic (AT)

- Battery technology: LiFePO<sub>4</sub>
- Ambient temperature in operation: 5°...+40 C
- UV-stabilized polycarbonate (PC) housing, PC-diffuser
- Impact resistance: IK10
- Push wire terminal for tool-free connection
- Through-wiring possible
- Type of protection: IP65

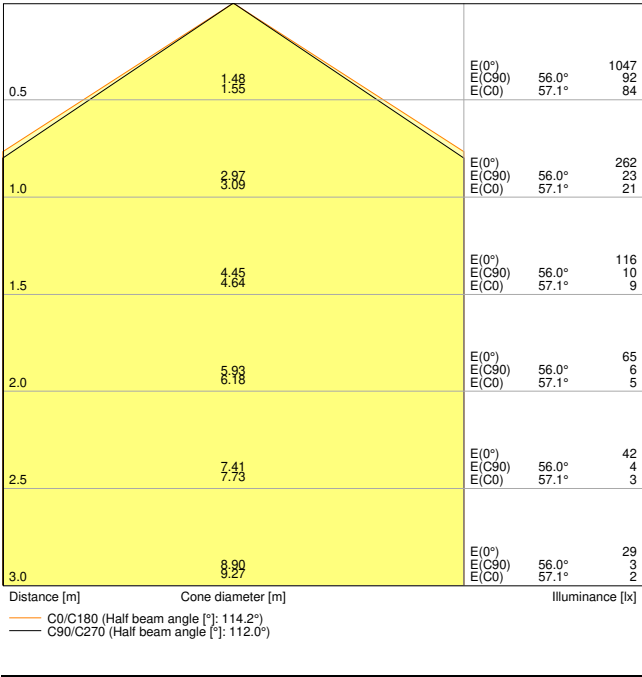
## TECHNICAL DATA

## Electrical data

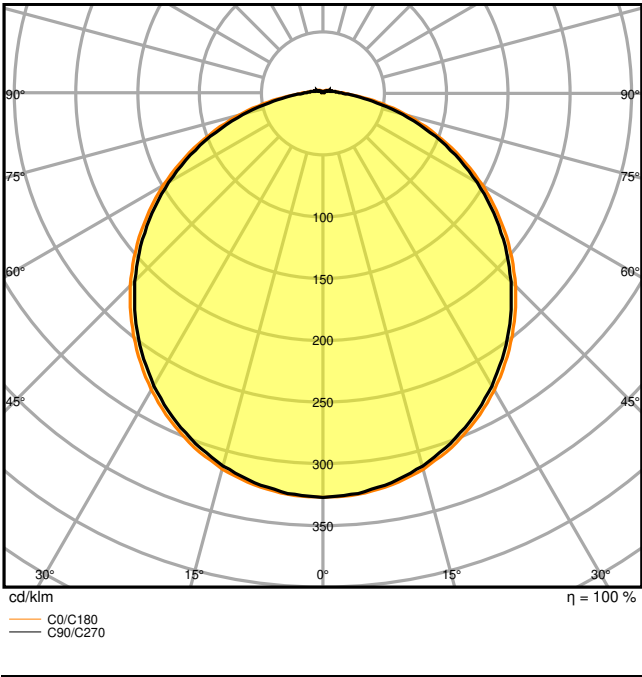
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 10.00 W               |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 50...60 Hz            |
| Nominal current                                             | 350.000 mA            |
| Inrush current                                              | 7.47 A                |
| Inrush current time $T_{h50}$                               | 725 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 17                    |
| Max. number of luminaires per miniature circuit breaker C10 | 18                    |
| Max. number of luminaires per miniature circuit breaker C16 | 28                    |
| Power factor $\lambda$                                      | $\geq 0.7$            |
| Total harmonic distortion                                   | < 8 %                 |
| Protection class                                            | II                    |
| Operating mode                                              | Integrated LED driver |

## Photometrical data

|                                              |                      |
|----------------------------------------------|----------------------|
| Luminous flux                                | 800 lm               |
| Luminous efficacy                            | 80 lm/W              |
| Color temperature                            | 4000 K               |
| Light color (designation)                    | Cool White           |
| Color rendering index Ra                     | > 80                 |
| Standard deviation of color matching         | < 5 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 °                |



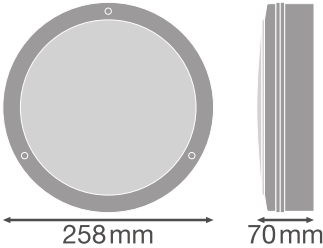
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Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 250.00 mm |
| Height         | 70.00 mm  |
| Product weight | 790.00 g  |



Materials & Colors

|                                 |                    |
|---------------------------------|--------------------|
| Product color                   | White              |
| Housing color                   | White              |
| 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              | +5...+40 °C        |
| Type of connection                     | Screwless terminal |
| Type of protection                     | IP65               |
| Protection class IK (shock resistance) | IK10               |
| Dimmable                               | No                 |
| Mounting type                          | Surface            |
| Mounting location                      | Ceiling / Wall     |
| Application environment                | Outdoor            |
| LED module replaceable                 | Not replaceable    |
| With light source                      | Yes                |

### Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 50000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 35000 h <sup>1)</sup> |
| Lifespan L90/B10 at 25 °C  | 20000 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 | 350 mA |
|----------------|--------|

### BATTERY

|                             |          |
|-----------------------------|----------|
| Type of Battery             | LiFePO4  |
| Battery size [GMS]          | Others   |
| Nominal voltage of battery  | 3.2 V    |
| Nominal capacity of battery | 4500 mAh |
| Battery charging time       | < 24 h   |

### Emergency lighting

|                                            |                                             |
|--------------------------------------------|---------------------------------------------|
| Area of emergency application              | Anti-panic lighting / Escape route lighting |
| Type of emergency light operation          | Maintained / Non-maintained                 |
| Type of emergency operation test           | None                                        |
| Wattage in maintained operation mode       | 16.5 W                                      |
| Wattage in emergency operation mode        | 3,0 W                                       |
| Luminous flux in maintained operation mode | 800 lm                                      |
| Luminous flux in emergency operation mode  | 300 lm                                      |

|                                          |     |
|------------------------------------------|-----|
| Battery life in emergency operation mode | 3 h |
| Integrated test switch                   | No  |

### Certificates & Standards

|                                                      |         |
|------------------------------------------------------|---------|
| Standards                                            | CE / CB |
| Luminaire with limited surface temperature, "D sign" | No      |
| Ball shot safe                                       | No      |

### EQUIPMENT / ACCESSORIES

- Additional cover rings in different designs available
- Mounting screws and dowels included

### DOWNLOAD DATA

| Documents and certificates                                                         |                                 |
|------------------------------------------------------------------------------------|---------------------------------|
|    | User instruction                |
|   | Addon Technical Information     |
|  | Packaging insert                |
|  | Declarations Of Conformity CE   |
|  | Declarations Of Conformity UKCA |
| Photometric and lighting design files                                              |                                 |
|  | IES file (IES)                  |
|  | LDT file (Eulumdat)             |
|  | ULD file (DIALux)               |
|  | ROLF file (RELUX)               |
|  | UGR file (UGR table)            |
|  | LDC typ cone                    |
|  | LDC typ polar                   |

