

PRODUCT DATASHEET

SF BLKH 250 P EM 10W 830 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: LiFePO₄
- 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

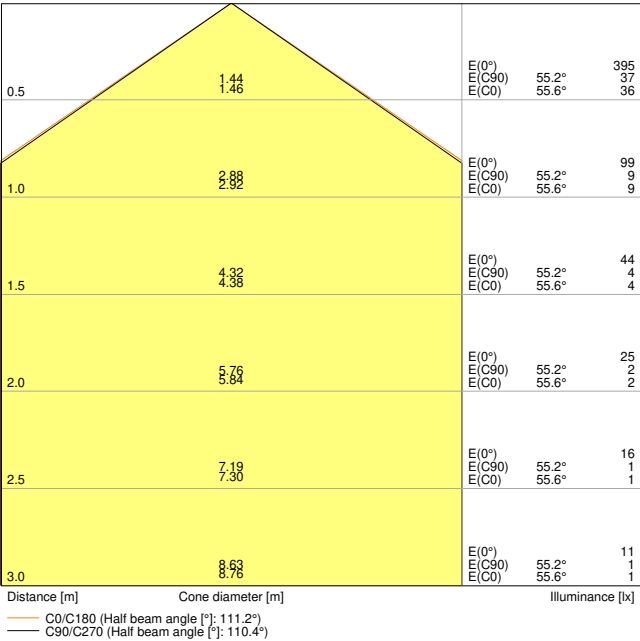
TECHNICAL DATA

Electrical data

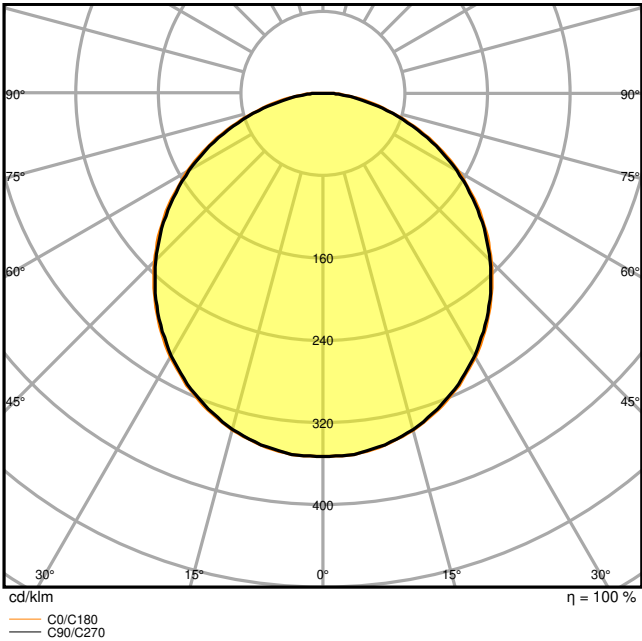
| | |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage | 10.00 W |
| Nominal voltage | 220...240 V |
| Mains frequency | 50...60 Hz |
| Nominal current | 350.000 mA |
| Inrush current | 7.47 A |
| Inrush current time T_{h50} | 725 μ s |
| Max. 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 λ | ≥ 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 | 3000 K |
| Light color (designation) | Warm White |
| Color rendering index Ra | > 80 |
| Standard deviation of color matching | < 5 sdc _m |
| 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 ° |



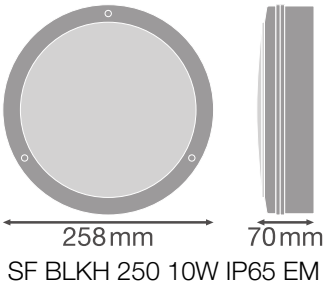
SF BLKH 250 P 10W 830 WT IP65 EM



SF BLKH 250 P 10W 830 WT IP65 EM

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 |
| With light source | Yes |
| Replaceable light source | No |

Lifespan

| | |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C | 50000 h ¹⁾ |
| Lifespan L80/B10 at 25 °C | 35000 h ¹⁾ |
| Lifespan L80/B50 at 25 °C | 35000 h |
| Lifespan L90/B10 at 25 °C | 20000 h |
| Number of switching cycles | 100000 |

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 | 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 |
| Replaceable light source (EPREL) | Not replaceable |










EQUIPMENT / ACCESSORIES













- Additional cover rings in different designs available
- 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 | SF BLKH 250, 300 P IP65 EM |
|  | Legal information | LS Insert SF Bulkhead P EM |
|  | Legal information | Legal Insert SF BLKH EM |
|  | Legal information | Informationstext 18 Abs 4 ElektroG |
|  | Declarations of conformity | EC declaration SF BLKH EM LUM |
|  | Declarations of conformity UKCA | SF BLKH P IP65 EM |
|  | Declarations of conformity UKCA | SF BLKH P IP65 EM |
| Photometric and lighting design files | | Document name |
|  | IES file (IES) | SF BLKH 250 10W 3000K WT IP65 EM |
|  | IES file (IES) | SF BLKH 250 10W 3000K WT IP65 EM |














| Photometric and lighting design files | | Document name |
|-------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------|
|  | IES file (IES) | SF BLKH 250 10W 3000K WT IP65 EM |
|  | LDT file (Eulumdat) | SF BLKH 250 10W 3000K WT IP65 EM |
|  | LDT file (Eulumdat) | SF BLKH 250 10W 3000K WT IP65 EM |
|  | LDT file (Eulumdat) | SF BLKH 250 10W 3000K WT IP65 EM |
|  | ULD file (DIALux) | SF BLKH 250 P 10W 830 WT IP65 |
|  | ROLF file (RELUX) | SF BLKH 250 P 10W 830 |
|  | UGR file (UGR table) | SF BLKH 250 P 10W 830 WT IP65 EM |
|  | Light distribution curve type cone | SF BLKH 250 P 10W 830 WT IP65 EM |
|  | Light distribution curve type polar | SF BLKH 250 P 10W 830 WT IP65 EM |
| CAD/BIM files | | Document name |
|  | BIM Revit 3D | Surface Bulkhead |
|  | CAD STEP 3D | SF BLKH 250 |
| Tender texts | | Document name |
|  | Tender documents | SURFACE BULKHEAD 250 EMERGENCY 10W 830 WT IP65-EN |

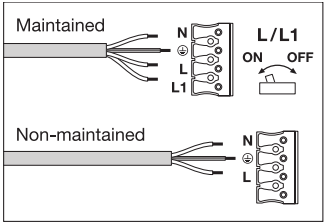
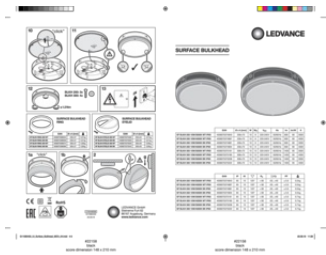
LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075647305 | Folding box 1 | 74 mm x 272 mm x 262 mm | 872.00 g | 5.27 dm ³ |
| 4058075647312 | Shipping box 8 | 550 mm x 285 mm x 315 mm | 7558.00 g | 49.38 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.

ADDITIONAL CATALOG INFORMATION

|  | Luminaire Status | Control LED |
|-----------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Normal | Green  |
| | Emergency | OFF  |
| | Testing | Green:    1s, 1s, 1s... |
| | Battery connection fault | Red:    1s, 1s, 1s... |
| | Battery capacity fault | Red  |
| | Luminaire fault | Flashed:    4s, 4s, 4s... |



References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

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