

# PRODUCT DATASHEET

## SP FP FIX P 8W 930 PS DIM IP65 BK

SPOT FIRE RATED | Recessed mounted spotlight for certain fire-resistant ceilings, fixed



PERFOR-  
MANCE  
CLASS

### Areas of application

- Direct replacement for recessed spotlights with halogen lamps
- Fire resistant ceilings
- Hotel rooms and corridors
- Bars, restaurants
- Galleries, museums

### Product benefits

- Fire-rated: Designed and tested to meet fire rating standards (in certain fire rated ceilings)
- Airtight construction for reduced air-leakage and limited energy loss
- Powerselect: Brightness adjustment via dip switches on the driver
- Easy replacement of external driver thanks to plug with bayonet lock
- Easy installation and electrical connection thanks to tool-free electrical connectors
- SCALE Design – great appearance, valuable materials and small size fits into every surrounding
- 5 years guarantee

### Product features

- Color rendering index  $R_a$ : 90
- Type of protection: IP65 (room side)
- Beam angle: 36°
- Die-cast aluminum housing
- Thermal expansion ribbon already preinstalled
- Silicon-pad protected springs



- Dimmable (with many common dimmers, see also [www.ledvance.com/dim](http://www.ledvance.com/dim))
- Through-wiring possible

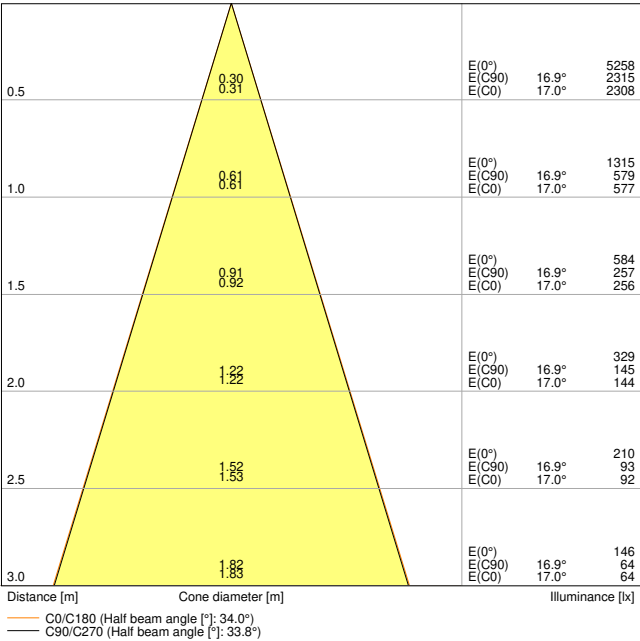
## TECHNICAL DATA

### Electrical data

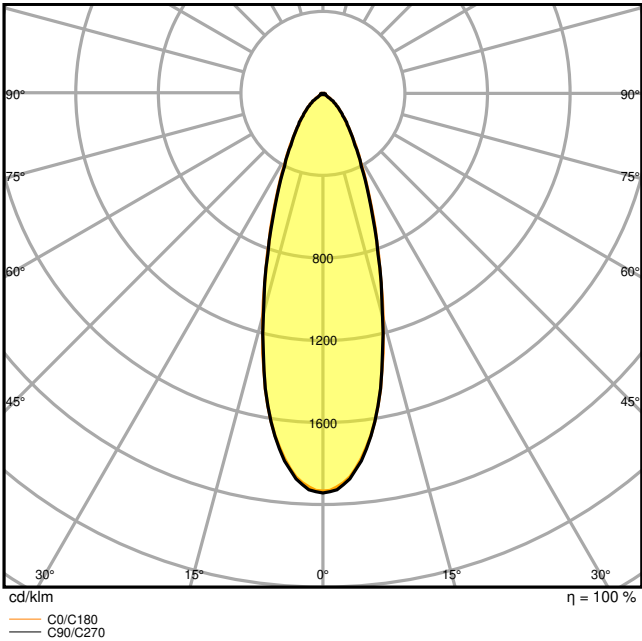
|                                                             |                               |
|-------------------------------------------------------------|-------------------------------|
| Nominal wattage                                             | 8 W / 6 W / 4 W               |
| Nominal voltage                                             | 220...240 V                   |
| Mains frequency                                             | 50...60 Hz                    |
| Nominal current                                             | 37mA / 28mA / 20 mA           |
| Inrush current                                              | 2 A                           |
| Inrush current time $T_{h50}$                               | 60 $\mu$ s                    |
| Max. number of luminaires per miniature circuit breaker B16 | 336                           |
| Max. number of luminaires per miniature circuit breaker C10 | 210                           |
| Max. number of luminaires per miniature circuit breaker C16 | 336                           |
| Power factor $\lambda$                                      | 0.90                          |
| Total harmonic distortion                                   | < 20 %                        |
| Protection class                                            | II                            |
| Surge capability (L-N)                                      | 1 kV                          |
| Surge capability (L/N-Ground)                               | 1 kV                          |
| Operating mode                                              | Electronic control gear (ECG) |
| Dimming interface                                           | Phase Cut                     |

### Photometrical data

|                                                              |                          |
|--------------------------------------------------------------|--------------------------|
| Luminous flux                                                | 680 lm / 510 lm / 340 lm |
| Total luminous flux of contained light sources               | 620 lm                   |
| Luminous efficacy                                            | 85 lm/W                  |
| Color temperature                                            | 3000 K                   |
| Reference control setting of contained light source (Kelvin) | 3000 K                   |
| Light color (designation)                                    | Warm white               |
| Color rendering index Ra                                     | 90                       |
| Standard deviation of color matching                         | $\leq 3$ sdcn            |
| Luminous intensity                                           | 1300 cd                  |
| Low flicker                                                  | Yes                      |
| Flickering metric (Pst LM)                                   | < 1                      |
| Stroboscope effect metric (SVM)                              | <0.4                     |
| Photobiological safety group acc. to EN62778                 | RG1                      |
| Beam angle                                                   | 36 °                     |
| UGR                                                          | < 28                     |



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Dimensions & Weight

|                |          |
|----------------|----------|
| Diameter       | 81.00 mm |
| Height         | 42.00 mm |
| Product weight | 250.00 g |



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Materials & Colors

|                                            |                               |
|--------------------------------------------|-------------------------------|
| Product color                              | Black                         |
| Housing color                              | Black                         |
| Body material                              | Aluminum                      |
| 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                     | Push terminal |
| Type of protection                     | IP65/IP20     |
| Protection class IK (shock resistance) | IK05          |
| Dimmable                               | Yes           |
| Type of dimming                        | PHASE CUT     |
| Mounting type                          | Recessed      |
| Mounting location                      | Ceiling       |
| Application environment                | Indoor        |
| Mounting diameter                      | 68 mm         |
| Mounting depth                         | 50,0 mm       |
| Adjustable                             | No            |
| With light source                      | Yes           |
| Replaceable light source               | No            |

### Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 50000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 41000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 41000 h               |
| Lifespan L90/B10 at 25 °C  | 18000 h               |
| Number of switching cycles | 30000                 |

<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              | 180 mA   |
| ECG - Output ripple current | < 10 %   |
| ECG - Length                | 68.00 mm |
| ECG - Width                 | 55,0 mm  |
| ECG - Height                | 22,0 mm  |

### Certificates & Standards

|           |                                             |
|-----------|---------------------------------------------|
| Standards | CE / CB / ENEC / TÜV SÜD / UKCA / EAC / EPD |
|-----------|---------------------------------------------|

|                                                      |                      |
|------------------------------------------------------|----------------------|
| Luminaire with limited surface temperature, "D sign" | No                   |
| Ball shot safe                                       | No                   |
| EPD                                                  | LEDV-00013-V01.01-EN |
| Replaceable light source (EPREL)                     | Not replaceable      |

### Additional product data

|                |              |
|----------------|--------------|
| Added function | MULTI SELECT |
|----------------|--------------|

### Accessories Optional

| Product image                                                                    | Product name              | EAN           |
|----------------------------------------------------------------------------------|---------------------------|---------------|
|  | CONNECTOR BOX 3POLE L/N/E | 4099854013508 |
|  | SP HOLDER DN68 H65        | 4099854013478 |

### Safety advice

- Coordination with your responsible fire safety inspector is required in advance
- Fire rating tested for 30 min in fire-resistant ceiling RIGIPS SD12RF F30 according EN-1364-2
- Fire rating tested for 60 min in I-Joist ceiling system according BS 476-21
- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- The luminaires are not suitable for covering with thermally insulated material.

### DOWNLOAD DATA

| Documents and certificates                                                                                                | Document name                               |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
|  User instruction / safety instructions | UI SP FP FIX P                              |
|  Addon technical information            | Dimmerlist SPOT GEN2                        |
|  Legal information                      | Light source Insert SP FP FIX P PS DIM IP65 |
|  Legal information                      | Informationstext 18 Abs 4 ElektroG          |

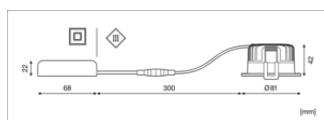
| Documents and certificates                                                          |                                     | Document name                            |
|-------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------|
|    | Legal information                   | Safety Insert G11235001                  |
|    | Legal information                   | Legal Insert G11147512                   |
|    | Declarations of conformity          | CE Declaration of Conformity SPOT DIM    |
|    | Declarations of conformity UKCA     | UKCA Declaration of Conformity SPOT DIM  |
|    | Declarations of conformity UKCA     | SP DIM                                   |
|    | Certificates                        | SP GEN2                                  |
| Photometric and lighting design files                                               |                                     | Document name                            |
|    | IES file (IES)                      | SP FP FIX P 8W 930 PS DIM IP65 BK        |
|   | LDT file (Eulumdat)                 | SP FP FIX P 8W 930 PS DIM IP65 BK        |
|  | ULD file (DIALux)                   | SP FP FIX P 8W 930 PS DIM                |
|  | ROLF file (RELUX)                   | SP FP FIX P 8W 930 PS DIM                |
|  | UGR file (UGR table)                | SP FP FIX P 8W 930 PS DIM IP65 BK        |
|  | Light distribution curve type cone  | SP FP FIX P 8W 930 PS DIM IP65 BK        |
|  | Light distribution curve type polar | SP FP FIX P 8W 930 PS DIM IP65 BK        |
| CAD/BIM files                                                                       |                                     | Document name                            |
|  | BIM Revit 3D                        | SP FP FIX G2                             |
|  | CAD STEP 3D                         | SP FP FIX                                |
| Tender texts                                                                        |                                     | Document name                            |
|  | Tender documents                    | SPOT FIRE RATED 8W 930 PS DIM IP65 BK-EN |

LOGISTICAL DATA

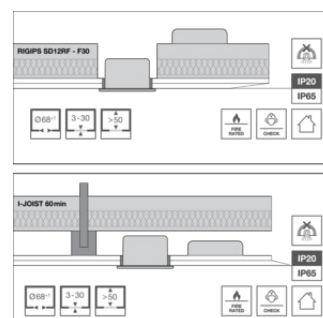
| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075799783 | Folding box<br>1             | 100 mm x 105 mm x 85 mm              | 420.00 g     | 0.89 dm <sup>3</sup>  |
| 4058075799790 | Shipping box<br>20           | 562 mm x 230 mm x 195 mm             | 8770.00 g    | 25.21 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



|               | ✓     | ✓      | ✓      | ○      |
|---------------|-------|--------|--------|--------|
|               | ON    | ON     | ON     | ON     |
|               | 1 2   | 1 2    | 1 2    | 1 2    |
| Current (CC)  | 85 mA | 140 mA | 180 mA | 140 mA |
| Power         | 4 W   | 6 W    | 8 W    | 6 W    |
| % rated lumen | 50 %  | 80 %   | 100 %  | 80 %   |



## References / Links

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

## Legal advice

– Installation hints in the current user instruction ([www.ledvance.com](http://www.ledvance.com)) must be observed

## DISCLAIMER

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