

# PRODUCT DATASHEET

## SP AIR FIX P 6W 940 PS DIM IP65 WT

SPOT AIR FIX | Recessed mounted spotlight for low energy- and narrow ceilings, fixed



PERFOR-  
MANCE  
CLASS

### Areas of application

- Direct replacement for recessed spotlights with halogen lamps
- Ceilings in low energy houses
- General illumination
- Hotel rooms and corridors
- Bars, restaurants
- Accent lighting
- Residential interiors

### Product benefits

- Airtight construction for reduced air-leakage and limited energy loss
- Coverable by many types of thermal insulation material
- Low profile enables installation into shallow ceiling voids
- 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
- Silicon-pad protected springs



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

---

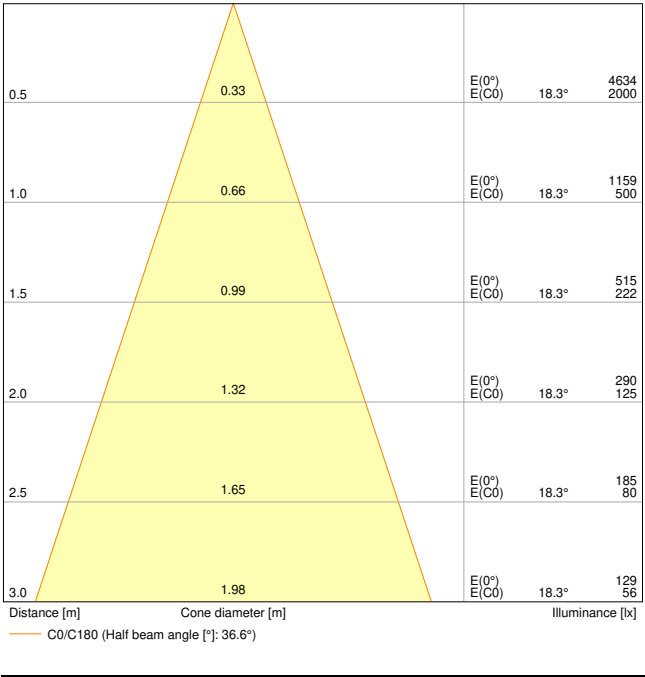
## TECHNICAL DATA

### Electrical data

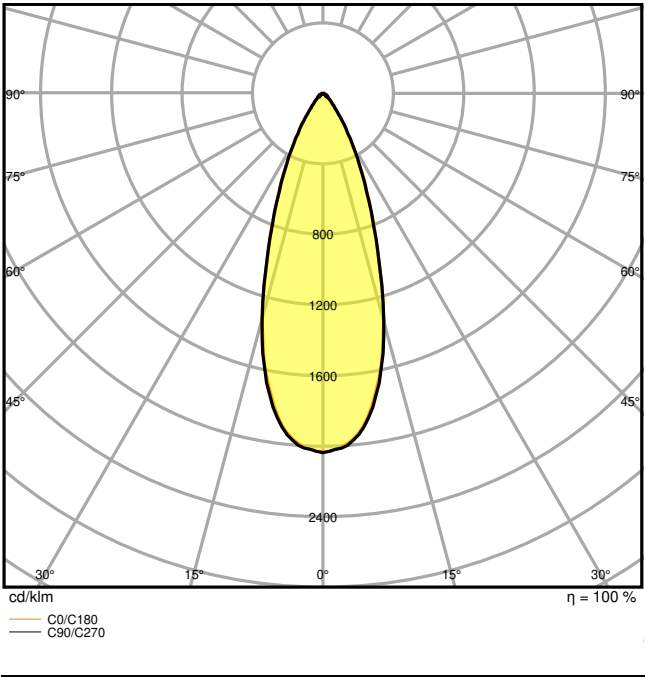
|                                                             |                               |
|-------------------------------------------------------------|-------------------------------|
| Nominal wattage                                             | 6.00 W                        |
| Nominal voltage                                             | 220...240 V                   |
| Mains frequency                                             | 50...60 Hz                    |
| Nominal current                                             | 28.000 mA                     |
| Inrush current                                              | 2 A                           |
| Inrush current time $T_{h50}$                               | 60 $\mu$ s                    |
| Max. number of luminaires per miniature circuit breaker B16 | 376                           |
| Max. number of luminaires per miniature circuit breaker C10 | 285                           |
| Max. number of luminaires per miniature circuit breaker C16 | 457                           |
| Power factor $\lambda$                                      | 0.90                          |
| Total harmonic distortion                                   | < 20 %                        |
| Protection class                                            | II                            |
| Operating mode                                              | Electronic control gear (ECG) |

### Photometrical data

|                                              |                            |
|----------------------------------------------|----------------------------|
| Luminous flux                                | 570 lm                     |
| Luminous efficacy                            | 95 lm/W                    |
| Color temperature                            | 4000 K                     |
| Light color (designation)                    | Cool White                 |
| Color rendering index Ra                     | 90                         |
| Standard deviation of color matching         | $\leq 3$ sdc <sub>cm</sub> |
| Low flicker                                  | Yes                        |
| Photobiological safety group acc. to EN62778 | RG1                        |
| Beam angle                                   | 36 °                       |



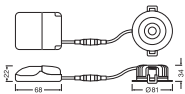
LDC typ cone



LDC typ polar

Dimensions & Weight

|                |          |
|----------------|----------|
| Diameter       | 81.00 mm |
| Height         | 34.00 mm |
| Product weight | 185.00 g |



Materials & Colors

|                                 |                               |
|---------------------------------|-------------------------------|
| Product color                   | White                         |
| Housing color                   | White                         |
| 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           | -42...+80 °C    |
| Type of connection                     | Push terminal   |
| Type of protection                     | IP65/IP20       |
| Protection class IK (shock resistance) | IK03            |
| Dimmable                               | Yes             |
| Type of dimming                        | PHASE CUT       |
| Mounting type                          | Recessed        |
| Mounting location                      | Ceiling         |
| Application environment                | Indoor          |
| Mounting diameter                      | 68 mm           |
| Mounting depth                         | 35,0 mm         |
| Adjustable                             | No              |
| 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  | 41000 h <sup>1)</sup> |
| Lifespan L90/B10 at 25 °C  | 18000 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              | 135 mA   |
| ECG - Output ripple current | < 5 %    |
| 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-00015-V01.01-EN |

## EQUIPMENT / ACCESSORIES

- External control gear included with dip-switches to select power during installation

## Safety advice

- If there is a moisture barrier foil, the spacer SP HOLDER must be used!

## DOWNLOAD DATA

| Documents and certificates                                                         |                                 |
|------------------------------------------------------------------------------------|---------------------------------|
|    | User instruction                |
|   | Addon Technical Information     |
|  | Packaging insert                |
|  | Declarations Of Conformity CE   |
|  | Declarations Of Conformity UKCA |
|  | Certificates                    |
|  | PEP Ecopassport                 |
| Photometric and lighting design files                                              |                                 |
|  | IES file (IES)                  |
|  | LDT file (Eulumdat)             |
|  | ULD file (DIALux)               |

## Photometric and lighting design files



ROLF file (RELUX)



UGR file (UGR table)



LDC typ cone



LDC typ polar

## CAD/BIM files



BIM\_Revit\_3D



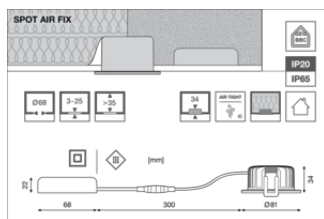
CAD\_STEP\_3D

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075799943 | Folding box<br>1             | 100 mm x 105 mm x 85 mm              | 355.00 g     | 0.89 dm <sup>3</sup>  |
| 4058075799950 | Shipping box<br>20           | 562 mm x 230 mm x 195 mm             | 8270.00 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



|                   |        |        |        |        |
|-------------------|--------|--------|--------|--------|
| SP AIR FIX        | ✓      | ✓      | ✗      | ✗      |
| SP AIR ADJUST     | ✓      | ✗      | ✗      | ✗      |
|                   | Preset | Preset |        |        |
|                   | ON     | ON     | ON     | ON     |
|                   | 1 2    | 1 2    | 1 2    | 1 2    |
|                   | °C     | °C     | °C     | °C     |
| Current (CC)      | 85 mA  | 140 mA | 180 mA | 140 mA |
| Power             | 4 W    | 6 W    | 8 W    | 6 W    |
| % rated lumen FIX | 80 %   | 100 %  | 130 %  | 100 %  |
| % rated lumen ADJ | 100 %  | 130 %  | 200 %  | 130 %  |

## 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.