

# PRODUCT DATASHEET

## SP ADJ P 8W 940 PS DIM IP20 WT

SPOT ADJUST | Recessed mounted spotlight for indoor use, adjustable



### Areas of application

- Direct replacement for recessed spotlights with halogen lamps
- General illumination
- Hotel rooms and corridors
- Bars, restaurants
- Accent lighting
- Galleries, museums
- Residential interiors

### Product benefits

- Energy savings of up to 90 % compared to halogen lamp spotlights
- 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

### Product features

- Available for ceiling cut-out diameters of 68 mm and 83 mm
- Adjustable swivel angle:  $\pm 25^\circ$
- Color rendering index  $R_a$ : 90
- Beam angle:  $36^\circ$
- 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



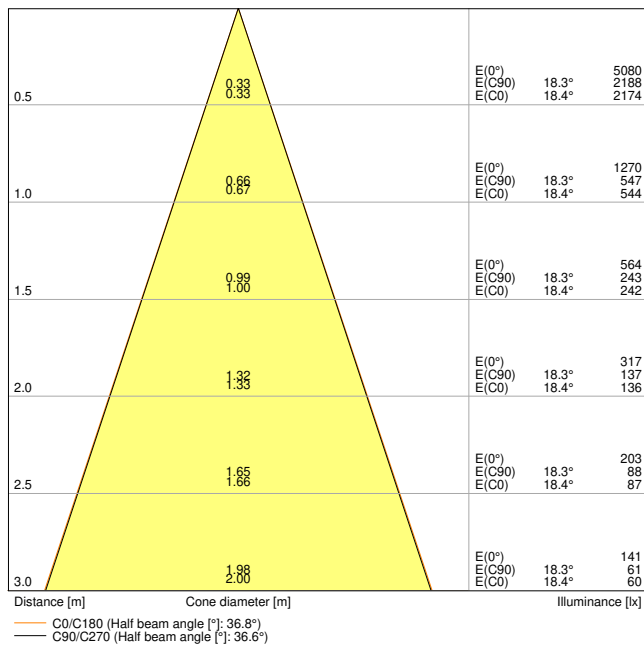
## TECHNICAL DATA

### Electrical data

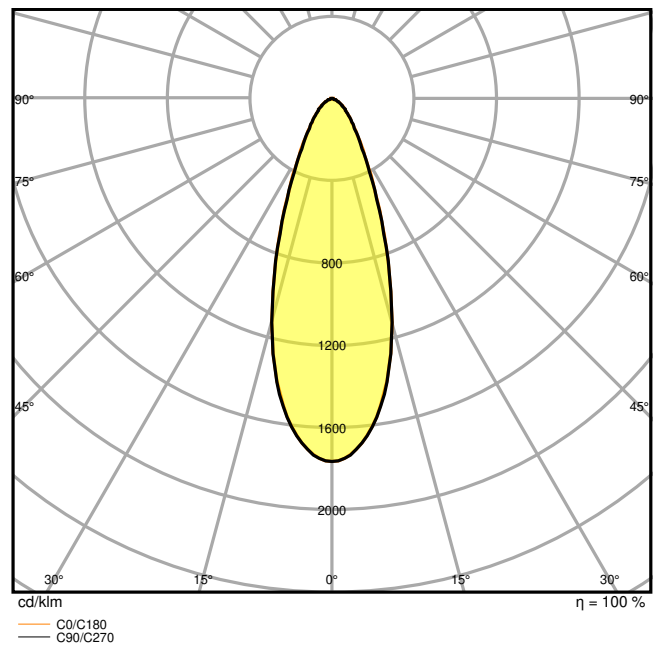
|   |                               |
|---|-------------------------------|
| Nominal wattage   | 8 W / 6 W / 4 W               |
| Nominal voltage   | 220...240 V                   |
| Mains frequency   | 50...60 Hz                    |
| Nominal current   | 38.000 mA                     |
| Inrush 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                            |
| Operating mode  | Electronic control gear (ECG) |
| Dimming interface   | Phase Cut                     |

### Photometrical data

|  |                           |
|--|---------------------------|
| Luminous flux                                | 720 lm / 570 lm / 360 lm  |
| Luminous efficacy                            | 90 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>m</sub> |
| Low flicker                                  | Yes                       |
| Photobiological safety group acc. to EN62778 | RG1                       |
| Beam angle                                   | 36 °                      |



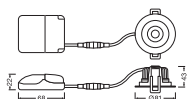
SP ADJ P 8W 940 PS DIM IP20 WT



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Dimensions & Weight

|                |          |
|----------------|----------|
| Diameter       | 81.00 mm |
| Height         | 43.00 mm |
| Product weight | 220.00 g |



SP ADJ P 8W PS DIM IP20

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                     | 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                         | 50,0 mm       |
| Adjustable                             | Yes           |
| 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 L80/B50 at 25 °C  | 41000 h               |
| 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              | 180 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-00014-V01.01-EN |
| Replaceable light source (EPREL) | Not replaceable      |

Additional product data

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

Accessories Optional

| Product image  | Product name                 | EAN           |
|--|------------------------------|---------------|
|    | SPOT FRAME 100X200 2X D68 BK | 4099854460081 |
|    | SPOT FRAME 100X200 2X D68 WT | 4099854460029 |
|   | SPOT FRAME 100X300 3X D68 WT | 4099854460203 |
|  | SPOT FRAME 100X200 2X D68 SI | 4099854460111 |
|  | SPOT FRAME 100X300 3X D68 BK | 4099854460258 |
|  | SPOT FRAME 100X100 1X D68 SI | 4099854459962 |
|  | SPOT FRAME 100X300 3X D68 SI | 4099854460289 |
|  | SPOT FRAME 100X100 1X D68 WT | 4099854459863 |

| Product image  | Product name                 | EAN           |
|--|------------------------------|---------------|
|    | SPOT FRAME 100X100 1X D68 BK | 4099854459917 |
|    | SP RING D100 BK              | 4099854136542 |
|    | SP RING D100 WT              | 4099854136511 |
|    | SP DRIVER DALI 8W            | 4099854089558 |
|    | SP RING D180 WT              | 4099854013416 |
|  | CONNECTOR BOX 3POLE L/N/E    | 4099854013508 |
|  | SP HOLDER DN68 H65           | 4099854013478 |
|  | SP RING D180 BK              | 4099854013447 |
|  | SP RING D133 BK              | 4099854013386 |
|  | SP RING D133 WT              | 4099854013355 |

## EQUIPMENT / ACCESSORIES













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








- Refurbishment rings are available as accessory
- Selected DALI 2.0 driver available as accessory

### Safety advice

- 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 FIX P and SP FIX ADJ               |
|    | Addon technical information            | Dimmerlist SPOT GEN2                     |
|    | Legal information                      | Light source Insert SP FIX P PS DIM IP44 |
|   | Legal information                      | Legal Insert                             |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG       |
|  | 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 ADJ P 8W 940 PS DIM IP20 WT           |
|  | LDT file (Eulumdat)                    | SP ADJ P 8W 940 PS DIM IP20 WT           |
|  | ULD file (DIALux)                      | SP ADJ P 8W 940 PS DIM                   |

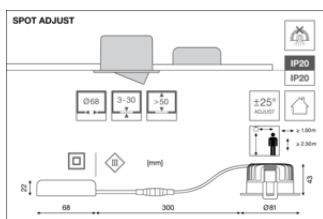
| Photometric and lighting design files   |                                     | Document name                        |
|---|-------------------------------------|--------------------------------------|
|  | ROLF file (RELUX)                   | SP ADJ P 8W 940 PS DIM               |
|  | UGR file (UGR table)                | SP ADJ P 8W 940 PS DIM IP20 WT       |
|   | Light distribution curve type cone  | SP ADJ P 8W 940 PS DIM IP20 WT       |
|   | Light distribution curve type polar | SP ADJ P 8W 940 PS DIM IP20 WT       |
| CAD/BIM files   |                                     | Document name                        |
|  | BIM Revit 3D                        | SP ADJ G2                            |
|  | CAD STEP 3D                         | SP ADJ                               |
| Tender texts  |                                     | Document name                        |
|  | Tender documents                    | SPOT ADJUST 8W 940 PS DIM IP20 WT-EN |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075799660 | Folding box<br>1             | 100 mm x 105 mm x 85 mm              | 390.00 g     | 0.89 dm <sup>3</sup>  |
| 4058075799677 | Shipping box<br>20           | 562 mm x 230 mm x 195 mm             | 8570.00 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



|               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|---------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------|
|               | ON                                  | ON                                  | ON                                  | Preset                   |
|               | 1 2                                 | 1 2                                 | 1 2                                 | 1 2                      |
| Current (CC)  | 85mA                                | 140mA                               | 180mA                               | 140mA                    |
| Power         | 4W                                  | 6W                                  | 8W                                  | 6W                       |
| % rated lumen | 50%                                 | 80%                                 | 100%                                | 80%                      |

References / Links



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

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## DISCLAIMER

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