

# PRODUCT DATASHEET

## SP CBO FPADJ V 7W MS827 DIM IP65 WT

SPOT COMBO FIRE RATED ADJUST MS | Fire-rated and coverable spotlight with Multi Select- and dimming function, in adjustable version



VALUE  
CLASS

### Areas of application

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

### Product benefits

- Easy color temperature adjustment via switch on the front of the spot
- Highly versatile due to selectable CCT and power steps (Multi Color / Multi Lumen) on the driver
- Coverable with most of the isolation material
- Fire-rated: Designed and tested to meet fire rating standards (in certain fire rated ceilings)

### Product features

- Adjustable color temperature (Multi Color): 2700 K, 3000 K, 4000 K, 6000 K
- Version with Multi Lumen function available: power steps selectable
- Type of protection: IP65 (room side)
- Housing material: iron
- Ring material: plastic



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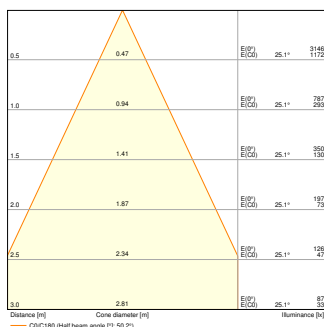
## TECHNICAL DATA

### Electrical data

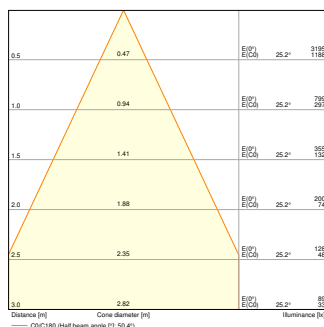
|                                                             |                               |
|-------------------------------------------------------------|-------------------------------|
| Nominal wattage                                             | 7 W / 5 W                     |
| Nominal voltage                                             | 220...240 V                   |
| Mains frequency                                             | 50...60 Hz                    |
| Nominal current                                             | 32.000 mA                     |
| Inrush current                                              | 0.7 A                         |
| Inrush current time $T_{h50}$                               | 100 $\mu$ s                   |
| Max. number of luminaires per miniature circuit breaker B16 | 426                           |
| Max. number of luminaires per miniature circuit breaker C10 | 266                           |
| Max. number of luminaires per miniature circuit breaker C16 | 426                           |
| Power factor $\lambda$                                      | 0.90                          |
| Total harmonic distortion                                   | < 40 %                        |
| Protection class                                            | I                             |
| Operating mode                                              | Electronic control gear (ECG) |
| Dimming interface                                           | PHASE CUT                     |

### Photometrical data

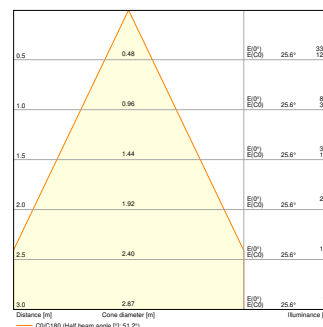
|                                              |                                            |
|----------------------------------------------|--------------------------------------------|
| Luminous flux                                | 840 lm / 800 lm / 770 lm / 600 lm / 570 lm |
| Luminous efficacy                            | 120 lm/W / 115 lm/W / 110 lm/W             |
| Color temperature                            | 2700 K / 3000 K / 4000 K / 6000 K          |
| Light color (designation)                    | Warm White / Cool White / Cool Daylight    |
| Color rendering index Ra                     | > 80                                       |
| Standard deviation of color matching         | < 6 sdcn                                   |
| Low flicker                                  | Yes                                        |
| Flickering metric (Pst LM)                   | <1                                         |
| Stroboscope effect metric (SVM)              | <0.4                                       |
| Photobiological safety group acc. to EN62778 | RG1                                        |
| Beam angle                                   | 60 °                                       |
| UGR                                          | < 30                                       |



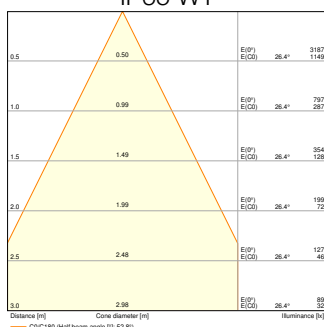
SP CBO FPADJ V 7W MS827 DIM  
IP65 WT



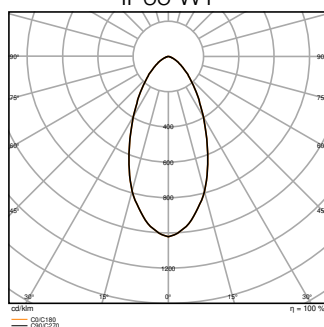
SP CBO FPADJ V 7W MS830 DIM  
IP65 WT



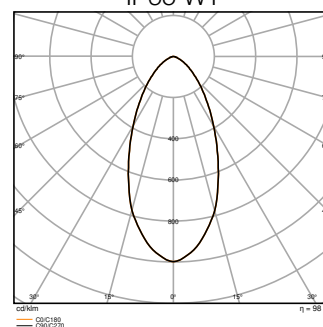
SP CBO FPADJ V 7W MS840 DIM  
IP65 WT



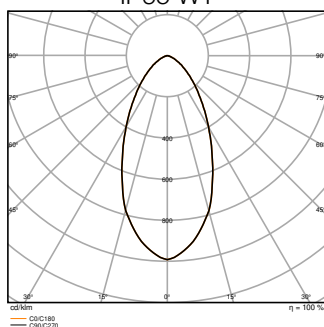
SP CBO FPADJ V 7W MS860 DIM  
IP65 WT



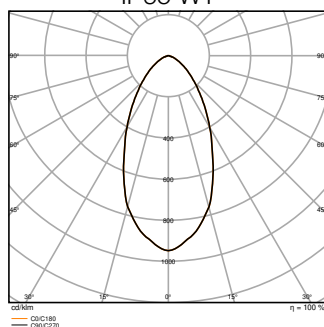
SP CBO FPADJ V 7W MS827 DIM  
IP65 WT



SP CBO FPADJ V 7W MS830 DIM  
IP65 WT



SP CBO FPADJ V 7W MS840 DIM  
IP65 WT



SP CBO FPADJ V 7W MS860 DIM  
IP65 WT

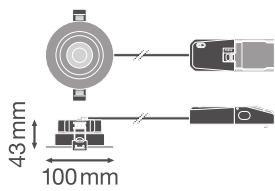
## Adjustable attributes

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|-----------------|-------------------|---------------|-------------------|
| 7 W             | 6000 K            | 840 lm        | 120 lm/W          |
| 7 W             | 4000 K            | 840 lm        | 120 lm/W          |
| 7 W             | 3000 K            | 800 lm        | 115 lm/W          |
| 7 W             | 2700 K            | 770 lm        | 110 lm/W          |
| 5 W             | 6000 K            | 600 lm        | 120 lm/W          |
| 5 W             | 4000 K            | 600 lm        | 120 lm/W          |

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|-----------------|-------------------|---------------|-------------------|
| 5 W             | 3000 K            | 570 lm        | 115 lm/W          |
| 5 W             | 2700 K            | 570 lm        | 115 lm/W          |

Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 100.00 mm |
| Height         | 43.00 mm  |
| Product weight | 277.00 g  |
| Cable length   | 60 mm     |



SP CBO FPADJ V 7W MS827 DIM  
IP65 WT

Materials & Colors

|                                            |               |
|--------------------------------------------|---------------|
| Product color                              | Black         |
| Housing color                              | Black         |
| Body material                              | Plastic METAL |
| Cover material                             | Plastic       |
| 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) | IK03          |
| Dimmable                               | Yes           |

|                         |           |
|-------------------------|-----------|
| Type of dimming         | PHASE CUT |
| Mounting type           | Recessed  |
| Mounting location       | Ceiling   |
| Application environment | Indoor    |
| Mounting diameter       | 80 mm     |
| Mounting depth          | 43 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  | 40000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 40000 h               |
| Lifespan L90/B10 at 25 °C  | 30000 h               |
| Number of switching cycles | 25000                 |

<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              | 85 mA   |
| ECG - Output ripple current | < 5 %   |
| ECG - Length                | 124 mm  |
| ECG - Width                 | 47 mm   |
| ECG - Height                | 27.3 mm |

### Certificates & Standards

|                                                      |                                       |
|------------------------------------------------------|---------------------------------------|
| Standards                                            | CE / CB / ENEC / TÜV SÜD / UKCA / EAC |
| Luminaire with limited surface temperature, "D sign" | No                                    |
| Ball shot safe                                       | No                                    |

### Additional product data

|                |                           |
|----------------|---------------------------|
| Product remark | Available from March 2025 |
| Added function | MULTI SELECT              |

### Accessories Optional

| Product image                                                                    | Product name                | EAN           |
|----------------------------------------------------------------------------------|-----------------------------|---------------|
|  | SP CBO FP RING ADJ ROUND BK | 4099854460142 |
|  | SP CBO FP RING ADJ ROUND BN | 4099854460173 |

## EQUIPMENT / ACCESSORIES

- Already equipped with white round ring
- Additional cover rings separately available in round shape and in different colors

## Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- Product in protection class I. All electrically conductive, metallic housing parts that can absorb voltage during operation or during maintenance in the event of a fault must be continuously connected to the protective earthing conductor.
- To reduce the risk of strangulation the flexible wiring connected to this luminaire shall be effectively fixed to the wall if the wiring is within arm's reach.

## DOWNLOAD DATA

|                                                                                    | Documents and certificates             | Document name                           |
|------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------|
|  | User instruction / safety instructions | SP CBO FPADJ V 7W MS827 DIM IP65        |
|  | Legal information                      | SP CBO DIM IP65 WT                      |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG      |
|  | Legal information                      | SP CBO FPADJ V 7W MS827 DIM IP65 WTLEDV |
|  | Declarations of conformity             | SP CBO                                  |
|  | Declarations of conformity UKCA        | SP CBO                                  |

| Photometric and lighting design files                                               |                                     | Document name                       |
|-------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
|    | IES file (IES)                      | SP CBO FPADJ V 7W MS827 DIM IP65 WT |
|    | IES file (IES)                      | SP CBO FPADJ V 7W MS830 DIM IP65 WT |
|    | IES file (IES)                      | SP CBO FPADJ V 7W MS840 DIM IP65 WT |
|    | IES file (IES)                      | SP CBO FPADJ V 7W MS860 DIM IP65 WT |
|    | LDT file (Eulumdat)                 | SP CBO FPADJ V 7W MS827 DIM IP65 WT |
|    | LDT file (Eulumdat)                 | SP CBO FPADJ V 7W MS830 DIM IP65 WT |
|    | LDT file (Eulumdat)                 | SP CBO FPADJ V 7W MS860 DIM IP65 WT |
|    | UGR file (UGR table)                | SP CBO FPADJ V 7W MS827 DIM IP65 WT |
|   | UGR file (UGR table)                | SP CBO FPADJ V 7W MS830 DIM IP65 WT |
|  | UGR file (UGR table)                | SP CBO FPADJ V 7W MS840 DIM IP65 WT |
|  | UGR file (UGR table)                | SP CBO FPADJ V 7W MS860 DIM IP65 WT |
|  | Light distribution curve type cone  | SP CBO FPADJ V 7W MS827 DIM IP65 WT |
|  | Light distribution curve type cone  | SP CBO FPADJ V 7W MS830 DIM IP65 WT |
|  | Light distribution curve type cone  | SP CBO FPADJ V 7W MS840 DIM IP65 WT |
|  | Light distribution curve type cone  | SP CBO FPADJ V 7W MS860 DIM IP65 WT |
|  | Light distribution curve type polar | SP CBO FPADJ V 7W MS827 DIM IP65 WT |
|  | Light distribution curve type polar | SP CBO FPADJ V 7W MS830 DIM IP65 WT |
|  | Light distribution curve type polar | SP CBO FPADJ V 7W MS840 DIM IP65 WT |
|  | Light distribution curve type polar | SP CBO FPADJ V 7W MS860 DIM IP65 WT |
| CAD/BIM files                                                                       |                                     | Document name                       |
|  | BIM Revit 3D                        | SP CBO FPFIX 5W                     |
|  | CAD STEP 3D                         | SP CBO FPADJ 7W                     |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4099854459948 | Folding box<br>1             | 117 mm x 115 mm x 71 mm              | 327.00 g     | 0.96 dm³  |
| 4099854459955 | Shipping box<br>30           | 590 mm x 246 mm x 242 mm             | 10510.00 g   | 35.12 dm³ |

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.

References / Links

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

DISCLAIMER

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