

# PRODUCT DATASHEET

## SF SQUARE 330 SEN V 24W 3CCT IP44

SURFACE SQUARE 330 3CCT SENSOR | Wall and ceiling luminaire with IP44, high frequency sensor and selectable CCT



### Areas of application

- Corridors
- Stairways
- Bathrooms
- Foyers

### Product benefits

- Easy adjustment of sensor range, daylight detection and hold time
- Indoor luminaire with high luminous efficacy
- Highly versatile due to selectable CCT in 3000K, 4000K and 5000K
- Energy savings of up to 55 % compared to luminaires that use CFL
- Easy and quick installation
- Very homogenous light
- 5 years guarantee

### Product features

- High frequency sensor for daylight and motion detection
- Type of protection: IP44 (ceiling mounting), IP20 (wall mounting)
- Impact resistance: IK03
- Metal housing, PMMA cover
- Ambient temperature in operation: -20...+40 °C



– Indoor use only, not suitable for outdoor use

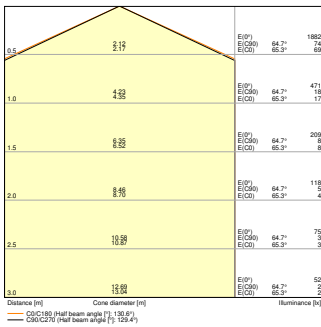
## TECHNICAL DATA

### Electrical data

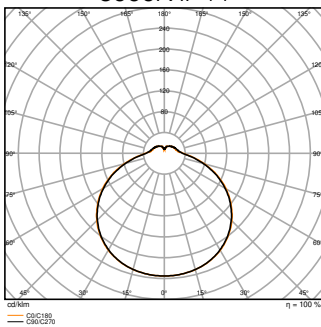
|   |                       |
|---|-----------------------|
| Nominal wattage   | 24.00 W               |
| Nominal voltage   | 220...240 V           |
| Mains frequency   | 50...60 Hz            |
| Nominal current   | 115.000 mA            |
| Inrush current  | 7.2 A                 |
| Inrush current time $T_{h50}$                               | 5.9 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 104                   |
| Max. number of luminaires per miniature circuit breaker C10 | 66                    |
| Max. number of luminaires per miniature circuit breaker C16 | 106                   |
| Power factor $\lambda$                                      | > 0.70                |
| Total harmonic distortion                                   | < 60 %                |
| Protection class  | I                     |
| Operating mode  | Integrated LED driver |

### Photometrical data

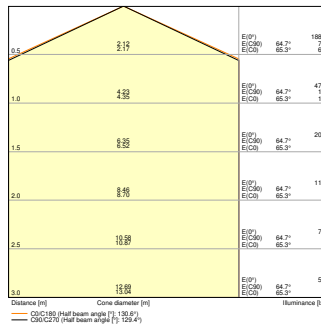
|  |                                    |
|--|------------------------------------|
| Luminous flux  | 2000 lm                            |
| Luminous efficacy  | 83 lm/W                            |
| Color temperature  | 3000 K / 4000 K / 5000 K           |
| Reference control setting of contained light source (Kelvin) | 4000 K                             |
| Light color (designation)                                    | Warm White / Cool White / Daylight |
| Color rendering index Ra                                     | > 80                               |
| Standard deviation of color matching                         | < 6 sdc <sub>m</sub>               |
| Low flicker  | Yes                                |
| Flickering metric (Pst LM)                                   | < 1                                |
| Stroboscope effect metric (SVM)                              | < 0.4                              |
| Photobiological safety group acc. to EN62778                 | RG0                                |
| Beam angle   | 120 °                              |



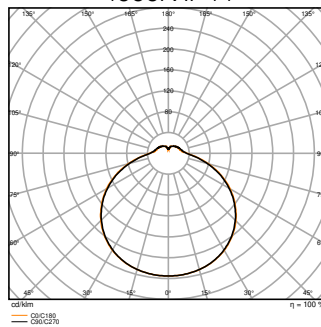
SF SQUARE 330 SEN V 24W 3CCT  
3000K IP44



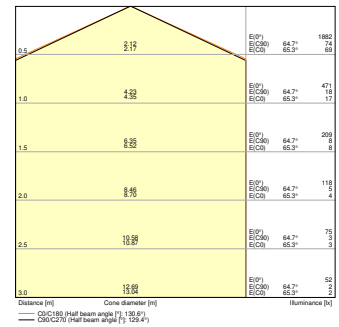
SF SQUARE 330 SEN V 24W 3CCT  
3000K IP44



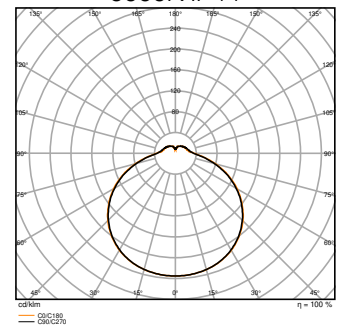
SF SQUARE 330 SEN V 24W 3CCT  
4000K IP44



SF SQUARE 330 SEN V 24W 3CCT  
4000K IP44



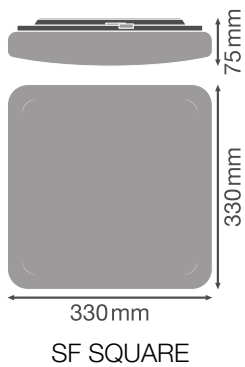
SF SQUARE 330 SEN V 24W 3CCT  
5000K IP44



SF SQUARE 330 SEN V 24W 3CCT  
5000K IP44

Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 330.00 mm |
| Width          | 330.00 mm |
| Height         | 75.00 mm  |
| Product weight | 755.00 g  |



## Materials & Colors

|  |                               |
|--|-------------------------------|
| Product color                              | White                         |
| Housing color                              | White                         |
| Body material                              | Steel                         |
| 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                     | Terminal, 3-pin |
| Type of protection                     | IP44            |
| Protection class IK (shock resistance) | IK03            |
| Dimmable                               | No              |
| Mounting type                          | Surface         |
| Mounting location                      | Ceiling / Wall  |
| Application environment                | Indoor          |
| With light source                      | Yes             |

## Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 50000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 33000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 33000 h               |
| Lifespan L90/B10 at 25 °C  | 15000 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              | 300 mA |
| ECG - Output ripple current | < 5 %  |

## Sensor

|                   |                |
|-------------------|----------------|
| Type of sensor    | Motion / Light |
| Sensor technology | Microwave      |

|  |              |
|--|--------------|
| Sensor detection angle                 | 120 °        |
| Sensor controlled switching time       | 5 s...30 min |
| Detection range of motion sensor       | 4...7 m      |
| Detection threshold of daylight sensor | 2...50 lx    |
| Sensor IK rating                       | IK03         |

### Certificates & Standards

|  |                            |
|--|----------------------------|
| Standards  | CE / CB / TÜV / UKCA / EAC |
| Luminaire with limited surface temperature, "D sign" | No                         |
| Ball shot safe                                       | No                         |
| Replaceable light source (EPREL)                     | Not replaceable            |








### Additional product data

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

### EQUIPMENT / ACCESSORIES

– Replacement cover optionally available

### DOWNLOAD DATA

| Documents and certificates   |  | Document name                              |
|--|--|--|
|  | User instruction / safety instructions | UI SF SQUARE 330 V and SF SQUARE 330 SEN V |
|  | Legal information                      | LSI SF SQUARE 330 V 24W                    |
|  | Legal information                      | Legal Insert SF CIRC SEN V IP44            |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG         |
|  | Declarations of conformity             | SF SQUARE and SF CIRC                      |
|  | Declarations of conformity UKCA        | SF SQUARE and SF CIRC                      |
| Photometric and lighting design files  |  | Document name                              |
|  | IES file (IES)                         | SF SQUARE 330 SEN V 24W 3CCT 3000K IP44    |

| Photometric and lighting design files  |                                     | Document name                                   |
|--|-------------------------------------|---|
|    | IES file (IES)                      | SF SQUARE 330 SEN V 24W 3CCT 4000K IP44         |
|    | IES file (IES)                      | SF SQUARE 330 SEN V 24W 3CCT 5000K IP44         |
|    | LDT file (Eulumdat)                 | SF SQUARE 330 SEN V 24W 3CCT 3000K IP44         |
|    | LDT file (Eulumdat)                 | SF SQUARE 330 SEN V 24W 3CCT 4000K IP44         |
|    | LDT file (Eulumdat)                 | SF SQUARE 330 SEN V 24W 3CCT 5000K IP44         |
|    | ULD file (DIALux)                   | SF SQUARE 330V SEN 24W 3CCT IP44                |
|    | ROLF file (RELUX)                   | SF SQUARE 330 3CCT SEN 24W 3CCT IP44            |
|    | UGR file (UGR table)                | SF SQUARE 330 SEN V 24W 3CCT 3000K IP44         |
|   | UGR file (UGR table)                | SF SQUARE 330 SEN V 24W 3CCT 4000K IP44         |
|  | UGR file (UGR table)                | SF SQUARE 330 SEN V 24W 3CCT 5000K IP44         |
|  | Light distribution curve type cone  | SF SQUARE 330 SEN V 24W 3CCT 3000K IP44         |
|  | Light distribution curve type cone  | SF SQUARE 330 SEN V 24W 3CCT 4000K IP44         |
|  | Light distribution curve type cone  | SF SQUARE 330 SEN V 24W 3CCT 5000K IP44         |
|  | Light distribution curve type polar | SF SQUARE 330 SEN V 24W 3CCT 3000K IP44         |
|  | Light distribution curve type polar | SF SQUARE 330 SEN V 24W 3CCT 4000K IP44         |
|  | Light distribution curve type polar | SF SQUARE 330 SEN V 24W 3CCT 5000K IP44         |
| CAD/BIM files  |                                     | Document name                                   |
|  | BIM Revit 3D                        | SF SQUARE                                       |
|  | CAD STEP 3D                         | SF SQUARE 330                                   |
| Tender texts   |                                     | Document name                                   |
|  | Tender documents                    | SURFACE SQUARE 330 3CCT SENSOR 24W 3CCT IP44-EN |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854042058 | Folding box<br>1             | 87 mm x 367 mm x 369 mm              | 1016.00 g    | 11.78 dm <sup>3</sup> |
| 4099854042065 | Shipping box<br>5            | 457 mm x 387 mm x 404 mm             | 6271.00 g    | 71.45 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

**IP44**

**4x**

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**IP20**

**2x**

SURFACE SQUARE 330 SENSOR / SURFACE SQUARE 330 SENSOR 3CCT

| Detection Area |    |    | Hold Time |    |    | Daylight Sensor |    |    |         |
|----------------|----|----|-----------|----|----|-----------------|----|----|---------|
| 1              | 2  | 3  | 4         | 5  | 6  | 7               | 8  | 9  |         |
| ON             | ON | ON | 100%      | ON | ON | 5s              | ON | ON | 30LUX   |
| -              | ON | ON | 75%       | -  | ON | 30s             | ON | ON | 50LUX   |
| ON             | -  | ON | 50%       | ON | ON | 90%             | -  | ON | 30LUX   |
| -              | -  | ON | 25%       | -  | ON | 3min            | ON | -  | 30LUX   |
| -              | -  | -  | 10%       | -  | -  | 30min           | -  | -  | Disable |

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.