

# PRODUCT DATASHEET

## SF FLAT SQ DALI 500 P 27W CS

SURFACE FLAT SQUARE DALI | Versatile square wall and ceiling luminaire with DALI-2 technology



### Areas of application

- Direct replacement for surface luminaires with integrated CFLni lamps
- Corridors
- Stairways
- Bathrooms
- Foyers

### Product benefits

- Easy upgradeability of light source, driver and sensor (EVERLOOP design)
- Suitable luminaire for VIVARES and other DALI-2 Light Management Systems
- Highly versatile due to selectable CCT (Multi Color) on the driver
- Indoor luminaire with high luminous efficacy up to 140 lm/W
- High color consistency with SDCM 3
- Tool-free electrical connection due to push button connector
- Very homogenous light with a slight backlight effect
- Extended services such as energy monitoring and remote maintenance possible with DALI versions
- 5 years guarantee

### Product features

- IoT-ready luminaire with DALI-2 technology
- Suitable for central battery emergency installations acc. to EN 60598-2-22
- Type of protection: IP54 (wall and ceiling)
- Impact resistance: IK08



- Lifetime (L80/B10): 100,000 h (at 25 °C), (L90/B10): 50,000 h (at 25 °C)
- Polycarbonate (PC) housing, PC-diffusor
- Ambient temperature in operation: -20...+45 °C
- Glow Wire Test according to IEC 60695-2-12: 850 °C
- 5-pole terminal block, cable cross section up to 5 x 2.5 mm<sup>2</sup>
- Through-wiring possible
- Indoor use only, not suitable for outdoor use

## TECHNICAL DATA

### Electrical data

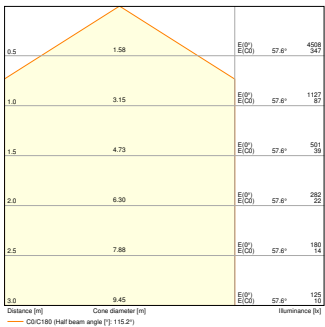
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 27.00 W <sup>1)</sup> |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 0/50/60 Hz            |
| Nominal current                                             | 120.000 mA            |
| Inrush current                                              | 17.8 A                |
| Inrush current time T <sub>h50</sub>                        | 200 µs                |
| Max. number of luminaires per miniature circuit breaker B16 | 11                    |
| Max. number of luminaires per miniature circuit breaker C10 | 10                    |
| Max. number of luminaires per miniature circuit breaker C16 | 16                    |
| Power factor $\lambda$                                      | > 0.90                |
| Total harmonic distortion                                   | < 20 %                |
| Protection class                                            | II                    |
| Operating mode                                              | Integrated LED driver |
| Dimming interface                                           | DALI-2                |

<sup>1)</sup> For possible options refer to lumen/power table image

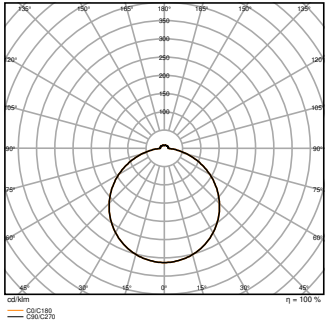
### Photometrical data

|                                              |                         |
|----------------------------------------------|-------------------------|
| Luminous flux                                | 3780 lm <sup>1)</sup>   |
| Luminous efficacy                            | 140 lm/W <sup>1)</sup>  |
| Color temperature                            | 3000 K / 4000 K         |
| Light color (designation)                    | Warm White / Cool White |
| Color rendering index Ra                     | > 80                    |
| Standard deviation of color matching         | 3 sdcn                  |
| Low flicker                                  | Yes                     |
| Flickering metric (Pst LM)                   | <1                      |
| Stroboscope effect metric (SVM)              | <0.4                    |
| Photobiological safety group acc. to EN62778 | RG0                     |
| Beam angle                                   | 120 °                   |

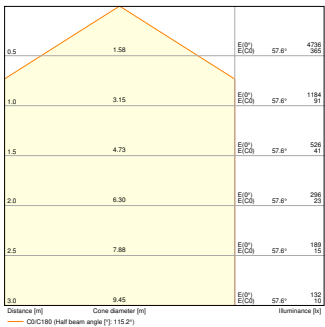
<sup>1)</sup> For possible options refer to lumen/power table image



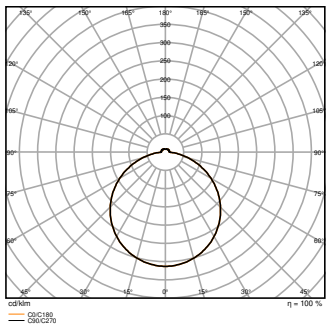
SF FLAT SQ DALI 500 P 27W  
3000K 3600lm



SF FLAT SQ DALI 500 P 27W  
4000K 3780lm



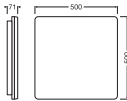
SF FLAT SQ DALI 500 P 27W  
4000K 3780lm



SF FLAT SQ DALI 500 P 27W  
3000K 3600lm

Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 500.00 mm |
| Width          | 500.00 mm |
| Height         | 71.00 mm  |
| Product weight | 3727.00 g |



SF FLAT SQ 500/SEN/DALI CPS

Materials & Colors

|               |                    |
|---------------|--------------------|
| Product color | White              |
| Housing color | White              |
| Body material | Polycarbonate (PC) |

|                                            |                    |
|--------------------------------------------|--------------------|
| Cover material                             | Polycarbonate (PC) |
| Light emitting surface material            | Polycarbonate (PC) |
| Glow Wire Test according to IEC 60695-2-12 | 850 °C             |
| Mercury content                            | 0.0 mg             |

### Application & Mounting

|                                        |                                                 |
|----------------------------------------|-------------------------------------------------|
| Ambient temperature range              | -20...+45 °C                                    |
| Temperature range at storage           | -40...+80 °C                                    |
| Type of connection                     | Screwless terminal, 5-Pole (L, N, PE, DA+, DA-) |
| Type of protection                     | IP54                                            |
| Protection class IK (shock resistance) | IK08                                            |
| Dimmable                               | Yes                                             |
| Type of dimming                        | DALI2                                           |
| Mounting type                          | Surface                                         |
| Mounting location                      | Ceiling / Wall                                  |
| Application environment                | Indoor                                          |
| With light source                      | Yes                                             |

### Lifespan

|                            |                        |
|----------------------------|------------------------|
| Lifespan L70/B50 at 25 °C  | 100000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 100000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 100000 h               |
| Lifespan L90/B10 at 25 °C  | 50000 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              | 650 mA |
| ECG - Output ripple current | < 5 %  |

### Emergency lighting

|                                           |        |
|-------------------------------------------|--------|
| Wattage in emergency operation mode       | 5.5 W  |
| Luminous flux in emergency operation mode | 510 lm |

### Certificates & Standards

|                                                      |                                   |
|------------------------------------------------------|-----------------------------------|
| Standards                                            | CE / CB / ENEC / UKCA / EAC / EPD |
| Luminaire with limited surface temperature, "D sign" | Yes                               |

|                                  |                      |
|----------------------------------|----------------------|
| Ball shot safe                   | No                   |
| EPD                              | LEDV-00028-V01.01-EN |
| Replaceable light source (EPREL) | Not replaceable      |

Additional product data

|                |                                   |
|----------------|-----------------------------------|
| Added function | EVERLOOP / MULTI SELECT / VIVARES |
|----------------|-----------------------------------|

Accessories Optional

| Product image                                                                      | Product name                      | EAN           |
|------------------------------------------------------------------------------------|-----------------------------------|---------------|
|   | LISOEV 500 SQ 27W 830 840 SF FLAT | 4099854312274 |
|   | SF FLAT 500 SQUARE FRAME SI       | 4099854292958 |
|  | OTi DALI 50/220...240/1A4 NFC     | 4062172061889 |

EQUIPMENT / ACCESSORIES

- EVERLOOP luminaire: upgrades and replacements available
- Decorative silver frame separately available

DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                      |
|------------------------------------------------------------------------------------|----------------------------------------|------------------------------------|
|  | User instruction / safety instructions | UI Surface Flat                    |
|  | Legal information                      | LISO Insert SF FLAT                |
|  | Legal information                      | Legal Insert SF FLAT               |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG |
|  | Declarations of conformity             | CE Declaration SF FLAT DALI        |

| Documents and certificates                                                          |                                     | Document name                            |
|-------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------|
|    | Declarations of conformity UKCA     | UKCA Declaration SF FLAT DALI            |
|    | Certificates                        | ENEC SF FLAT                             |
| Photometric and lighting design files                                               |                                     | Document name                            |
|    | IES file (IES)                      | SF FLAT SQ DALI 500 P 27W 3000K 3600lm   |
|    | IES file (IES)                      | SF FLAT SQ DALI 500 P 27W 4000K 3780lm   |
|    | LDT file (Eulumdat)                 | SF FLAT SQ DALI 500 P 27W 3000K 3600lm   |
|    | LDT file (Eulumdat)                 | SF FLAT SQ DALI 500 P 27W 4000K 3780lm   |
|    | ULD file (DIALux)                   | SF FLAT SQ DALI 500 P 27W CS             |
|   | ROLF file (RELUX)                   | SF FLAT SQ DALI 500 P 27W CS             |
|  | UGR file (UGR table)                | SF FLAT SQ DALI 500 P 27W 3000K 3600lm   |
|  | UGR file (UGR table)                | SF FLAT SQ DALI 500 P 27W 4000K 3780lm   |
|  | Light distribution curve type cone  | SF FLAT SQ DALI 500 P 27W 3000K 3600lm   |
|  | Light distribution curve type cone  | SF FLAT SQ DALI 500 P 27W 4000K 3780lm   |
|  | Light distribution curve type polar | SF FLAT SQ DALI 500 P 27W 3000K 3600lm   |
|  | Light distribution curve type polar | SF FLAT SQ DALI 500 P 27W 4000K 3780lm   |
| CAD/BIM files                                                                       |                                     | Document name                            |
|  | BIM Revit 3D                        | Surface Flat                             |
|  | CAD STEP 3D                         | SF FLAT SQ 500                           |
| Tender texts                                                                        |                                     | Document name                            |
|  | Tender documents                    | SURFACE FLAT SQUARE DALI 500 P 27W CS-EN |

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.

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

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