

PRODUCT DATASHEET

SF FLAT SQ DA 500 P 27W 83040

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-diffuser
- 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 mm²
- Through-wiring possible
- Indoor use only, not suitable for outdoor use

TECHNICAL DATA

Electrical data

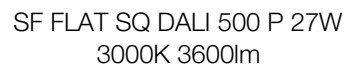
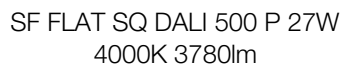
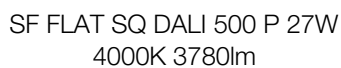
Nominal wattage	27.00 W ¹⁾
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	120.000 mA
Inrush current	17.8 A
Inrush current time T _{h50}	200 µs
Max. number of luminaires per miniature circuit breaker B16	11
Max. number of luminaires per miniature circuit breaker C10	10
Max. number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

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

Photometrical data

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

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



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
IoT ready	Support of DALI data type PART 251, 252, 253 ¹⁾
Mounting type	Surface
Mounting location	Ceiling / Wall
Application environment	Indoor
With light source	Yes
Replaceable light source	Yes

¹⁾ Internet of Things. Supports data transfer via gateway to cloud-based monitoring platforms, such as LEDVANCE VIVARES Cloud

Lifespan

Lifespan L70/B50 at 25 °C	100000 h ¹⁾
Lifespan L80/B10 at 25 °C	100000 h ¹⁾
Lifespan L80/B50 at 25 °C	100000 h
Lifespan L90/B10 at 25 °C	50000 h
Number of switching cycles	100000

¹⁾ 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

Type of Emergency Lighting (EL)	EL certified driver (0Hz / DC operation) for central battery operation included
Type of emergency operation test	None
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
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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

Upgrade and replacement components

Components Light Source

Product image	Product name	EAN
	LISOEV 500 SQ 27W 830 840 SF FLAT	4099854312274
Components Driver		
Product image	Product name	EAN
	OTi DALI 50/220...240/1A4 NFC	4062172061889
Components Light Control		
Product image	Product name	EAN
	MANUAL CONTROL UNIT SELECT DALI-2	4058075837485
	MANUAL CONTROL UNIT SELECT DALI-2 TW	4058075837508
	MANUAL CONTROL UNIT SELECT DALI-2 EXCHANGEABLE COVER TW	4058075837522
	MANUAL CONTROL UNIT TOUCH DALI-2 TW	4058075837560
	MANUAL CONTROL UNIT TOUCH DALI-2	4058075837546
	PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075837584

Product image	Product name	EAN
	SURFACE MOUNT FRAME	4058075843561
	PUSHBUTTON COUPLER DALI-2	4058075837607
	FLEX CONTROL UNIT IOT DALI-2 HCL TW	4058075841888
	FLEX CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075841901
	FLEX CONTROL UNIT DALI-2 TW	4058075843844
	FLEX CONTROL UNIT REAL-TIME-CLOCK DALI-2 HCL TW	4058075841925
	SENSOR DALI-2 LIGHT/PRESENCE-6 INFRARED CEILING INTEGRATION	4058075837621
	SENSOR DALI-2 LIGHT/PRESENCE-8 INFRARED CEILING INTEGRATION	4058075841949
	SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION	4058075843868
	SENSOR DALI-2 LIGHT/PRESENCE-24 INFRARED CEILING MOUNTING	4058075843882
	SENSOR CEILING MOUNTING KIT	4058075843905

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
	Declarations of conformity UKCA	UKCA Declaration SF FLAT DALI
	Certificates	ENEC SF FLAT
	EU Data Act	DALI LED Driver and Luminaires
	EPD	EPD EN SURFACE 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

Photometric and lighting design files		Document name
	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

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854292798	Folding box 1	77 mm x 507 mm x 507 mm	3899.00 g	19.79 dm ³
4099854292804	Shipping box 4	520 mm x 327 mm x 530 mm	16446.00 g	90.12 dm ³

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.

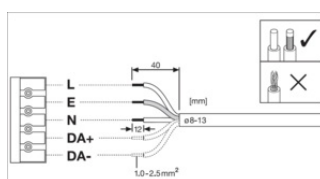
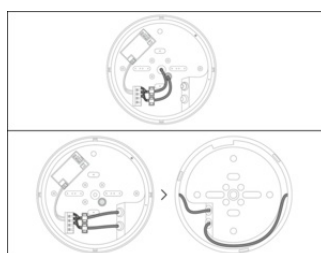
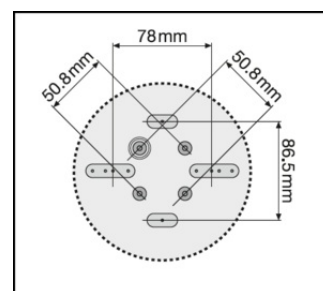
ADDITIONAL CATALOG INFORMATION



Product code	Product name	Color temperature	Power	Beam angle	Beam diameter	Beam diameter at 10m	Beam diameter at 15m	Beam diameter at 20m
4099854292798	SF FLAT SQ DALI 500 P 27W 4000K 3780lm	4000K	27W	120°	1000mm	1000mm	1000mm	1000mm
4099854292804	SF FLAT SQ DALI 500 P 27W 3000K 3600lm	3000K	27W	120°	1000mm	1000mm	1000mm	1000mm
4099854292805	SF FLAT SQ DALI 500 P 27W 3000K 3600lm	3000K	27W	120°	1000mm	1000mm	1000mm	1000mm
4099854292806	SF FLAT SQ DALI 500 P 27W 4000K 3780lm	4000K	27W	120°	1000mm	1000mm	1000mm	1000mm
4099854292807	SF FLAT SQ DALI 500 P 27W 4000K 3780lm	4000K	27W	120°	1000mm	1000mm	1000mm	1000mm



www.ledvance.com/everloop-replacement



References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

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