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



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- 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^2
- Through-wiring possible
- Indoor use only, not suitable for outdoor use

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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
Maximum total harmonic distortion	< 20 %
Protection class	II
Operating mode	Integrated LED driver
Dimming interface	DALI-2 / IoT / Push-DIM

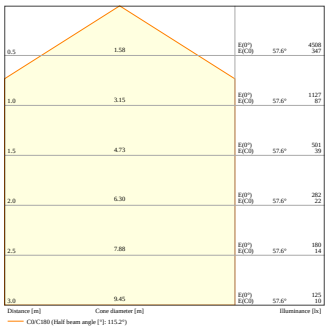
1) For possible options refer to lumen/power table image

Photometrical data

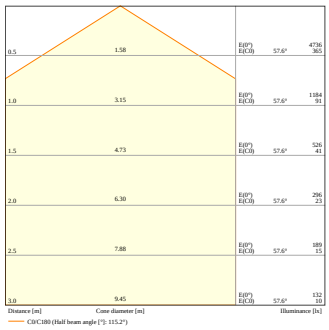
Luminous flux	3780 lm [1)]
Luminous efficacy	140 lm/W [1)]
Color temperature	3000 K / 4000 K
Light color (designation)	Warm White / Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	3 sdcm
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	<0.4
Photobiological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

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

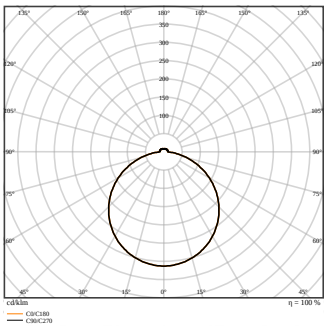
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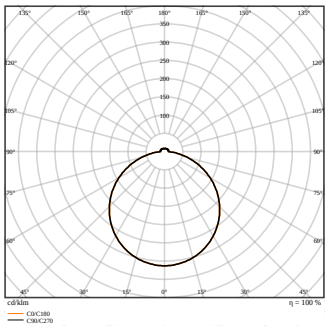
SF FLAT SQ DALI 500 P 27W 3000K 3600lm



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



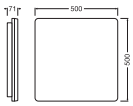
SF FLAT SQ DALI 500 P 27W 3000K 3600lm



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

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

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RAL Color (most similar)	RAL 9003
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	DALI-2
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 [1)]
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
Output ripple current (100 Hz)	< 5 %

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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 COLOR / 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

Upgrade and replacement components

Components Light Source

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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 for light control

Components Light Control

Product image	Product name	EAN
	MANUAL CONTROL UNIT GROUP DALI-2 TW	4099854748691
	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

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Product image	Product name	EAN
	PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075837584
	PUSH CONTROL UNIT FM DALI-2 DIM	4099854846922
	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 CEILING MOUNTING KIT LIGHT/PRESENCE-6	4099854748714
	SENSOR DALI-2 LIGHT/PRESENCE-8 INFRARED CEILING INTEGRATION	4058075841949

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Product image	Product name	EAN
	SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION	4058075843868
	SENSOR DALI-2 LIGHT/PRESENCE-24 INFRARED CEILING MOUNTING	4058075843882
	HIGHBAY SENSOR DALI-2 LIGHT/PRESENCE -21 INFRARED CEILING MOUNTING	4058075857537
	DALI sensors -8 IR CI, -40X5 IR CI, -24 IR CM, -21 IR CM	4058075843905
	RELAY DALI-2 RAIL MOUNTING	4099854709159
	RELAY DALI-2 CEILING MOUNTING	4099854709135
	REPEATER DALI-2 RAIL MOUNTING	4099854709111
	REPEATER DALI-2 CEILING MOUNTING	4099854709098

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	UI Surface Flat
PDF	User instruction / safety instructions	SEN SF FLAT LEADER FOLLOWER
PDF	Legal information	LISO Insert SF FLAT
PDF	Legal information	Legal Insert SF FLAT

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	Documents and certificates	Document name
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Safety Insert G11218810
PDF	Declarations of conformity	CE Declaration SF FLAT DALI
PDF	Declarations of conformity UKCA	UKCA Declaration SF FLAT DALI
PDF	Certificates	ENEC SF FLAT
PDF	EU Data Act	DALI LED Driver and Luminaires
PDF	EPD	EPD EN SURFACE FLAT

	Photometric and lighting design files	Document name
IES	IES file (IES)	SF FLAT SQ DALI 500 P 27W 3000K 3600lm
IES	IES file (IES)	SF FLAT SQ DALI 500 P 27W 4000K 3780lm
LDT	LDT file (Eulumdat)	SF FLAT SQ DALI 500 P 27W 3000K 3600lm
LDT	LDT file (Eulumdat)	SF FLAT SQ DALI 500 P 27W 4000K 3780lm
ULD	ULD file (DIALux)	SF FLAT SQ DALI 500 P 27W CS
ROLF	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

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	Photometric and lighting design files	Document name
	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

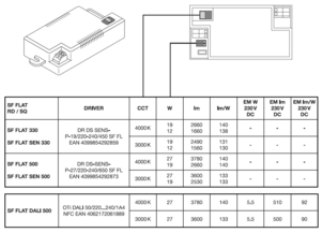
	Tender texts	Document name
	Tender documents	SURFACE FLAT SQUARE DALI 500 P 27W CS-EN

LOGISTICAL DATA

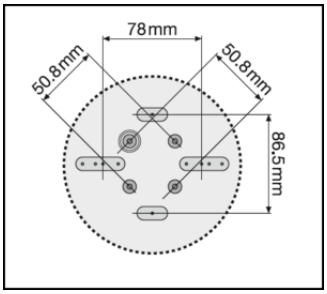
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854292798	Folding box 1	77 mm x 507 mm x 507 mm	3899.00 g	19.79 dm^3
4099854292804	Shipping box 4	520 mm x 327 mm x 530 mm	16446.00 g	90.12 dm^3

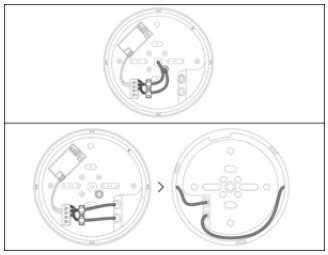
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

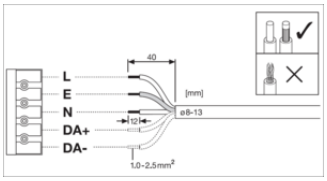
ADDITIONAL CATALOG INFORMATION











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References / Links

– For Guarantee see www.ledvance.com/guarantee

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