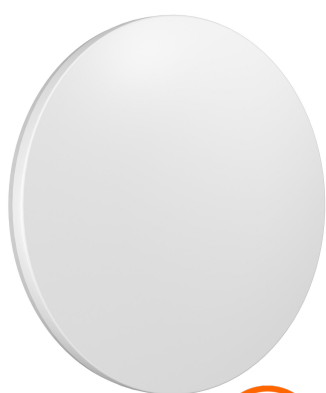


# PRODUCT DATASHEET

## SF FLAT RD DALI 500 P 27W CS

SURFACE FLAT ROUND DALI | Versatile round 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

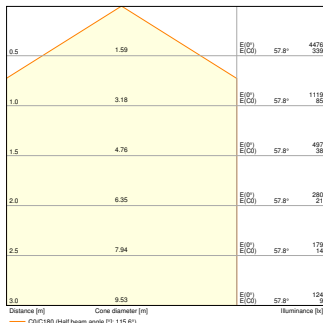
Nominal wattage	27.00 W <sup>1)</sup>
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	120.000 mA
Inrush current	17.8 A
Inrush current time T <sub>h50</sub>	200 µs
Max. number of luminaires per miniature circuit breaker B16	11
Max. number of luminaires per miniature circuit breaker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

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

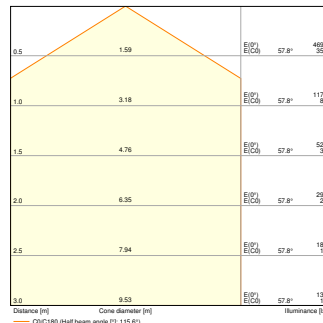
### Photometrical data

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 °

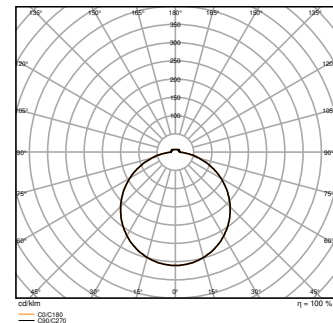
<sup>1)</sup> For possible options refer to lumen/power table image



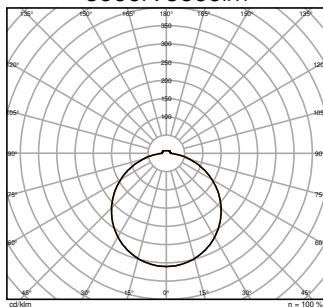
SF FLAT RD DALI 500 P 27W  
3000K 3600lm



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



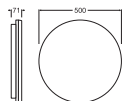
SF FLAT RD DALI 500 P 27W  
3000K 3600lm



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

Dimensions & Weight

Diameter	500.00 mm
Height	71.00 mm
Product weight	3129.00 g



SF FLAT RD 500 27W 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
LED module replaceable	Not replaceable
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 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

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




## Certificates & Standards

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

## Additional product data

Product remark	Available from September 2024
Added function	EVERLOOP / MULTI SELECT








## Accessories Optional




Product image	Product name	EAN
	LISOEV 500 R 27W 830 840 SF FLAT	4099854312236
	SF FLAT 500 ROUND FRAME SI	4099854292972
	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	UI Surface Flat
 Addon Technical Information	LISO Insert SF FLAT
 Legal information	Legal Insert SF FLAT
 Declarations of conformity	CE Declaration SF FLAT DALI
 Declarations Of Conformity UKCA	UKCA Declaration SF FLAT DALI
 Certificates	ENEC SF FLAT
 Certificates	CEE Eligibility Attestation BAT-EQ-127 FR

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


Photometric and lighting design files		Document name
	LDT file (Eulumdat)	SF FLAT RD DALI 500 P 27W 4000K 3780lm
	UGR file (UGR table)	SF FLAT RD DALI 500 P 27W 3000K 3600lm
	UGR file (UGR table)	SF FLAT RD DALI 500 P 27W 4000K 3780lm
	LDC typ cone	SF FLAT RD DALI 500 P 27W 3000K 3600lm
	LDC typ cone	SF FLAT RD DALI 500 P 27W 4000K 3780lm
	LDC typ polar	SF FLAT RD DALI 500 P 27W 3000K 3600lm
	LDC typ polar	SF FLAT RD DALI 500 P 27W 4000K 3780lm
CAD/BIM files		Document name
	CAD_STEP_3D	SF FLAT RD 500

**LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854292774	Folding box 1	77 mm x 507 mm x 507 mm	3390.00 g	19.79 dm <sup>3</sup>
4099854292781	Shipping box 4	520 mm x 327 mm x 530 mm	14410.00 g	90.12 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.

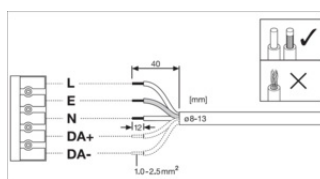
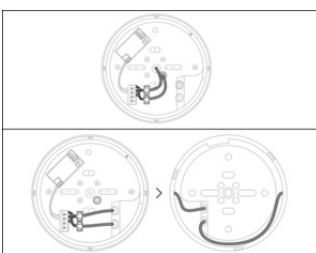
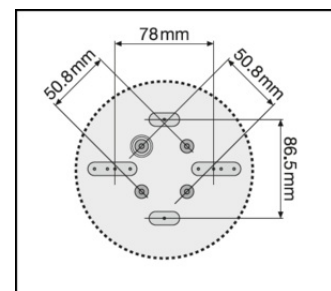
**ADDITIONAL CATALOG INFORMATION**



SP FLAT RD 7 500	ORDER	CO2	W	h	h <sub>tot</sub>	EM W STEP DC	EM W STEP DC	EM W/IN STEP DC	EM W/IN STEP DC
SP FLAT 500	SP-UD-5000- P-UGR-3000K-3600lm-SP-FL- DALI-4000K-3780lm	4000K	18	1000	140	120	-	-	-
SP FLAT 500 500	SP-UD-5000- P-UGR-3000K-3600lm-SP-FL- DALI-4000K-3780lm	3000K	18	1000	120	120	-	-	-
SP FLAT 500	SP-UD-5000- P-UGR-4000K-3780lm-SP-FL- DALI-4000K-3780lm	4000K	18	1000	140	120	-	-	-
SP FLAT 500 500	SP-UD-5000- P-UGR-4000K-3780lm-SP-FL- DALI-4000K-3780lm	3000K	18	1000	120	120	-	-	-
SP FLAT 500 500	SP-UD-5000- P-UGR-4000K-3780lm-SP-FL- DALI-4000K-3780lm	4000K	27	1000	140	120	-	-	-
SP FLAT 500 500	SP-UD-5000- P-UGR-4000K-3780lm-SP-FL- DALI-4000K-3780lm	3000K	27	1000	120	120	-	-	-



[www.ledvance.com/everloop-replacement](http://www.ledvance.com/everloop-replacement)



## 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.