PRODUCT DATASHEET
SF FLAT RD SN 500 P 27W ML 83040

SURFACE FLAT ROUND SENSOR | Versatile round wall and ceiling luminaire with integrated sensor



Areas of application

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

Product benefits

- Multiple settings for sensor range, daylight detection, hold time and DIM-level /-period by DIP switches
- Wireless (radio frequency) communication with other sensor luminaires in a distance of up to 15 m
- Assignment of up to 15 groups and cross-group interaction (leader/follower or swarm function)
- Easy upgradeability of light source, driver and sensor (EVERLOOP design)
- Highly versatile due to selectable CCT and lumen steps (Multi Select) on the driver
- Indoor luminaire with high luminous efficacy up to 140 lm/W
- High color consistency with SDCM 3
- Tool-free electrical connection with plug connectors
- Very homogenous light with a slight backlight effect
- For comfortable configuration the sensor can be removed from luminaire
- 5 years guarantee

Product features

- High frequency sensor for daylight and motion detection, corridor- and grouping function
- 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



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

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TECHNICAL DATA

Electrical data

Nominal wattage	27 W / 19 W [1)]
Nominal voltage	220…240 V
Mains frequency	50…60 Hz
Nominal current	120.000 mA
Inrush current	13 A
Inrush current time T_{h50}	112 µs
Max. number of luminaires per miniature circuit breaker B16	57
Max. number of luminaires per miniature circuit breaker C10	46
Max. number of luminaires per miniature circuit breaker C16	73
Power factor λ	> 0.90
Maximum total harmonic distortion	< 20 %
Protection class	II
Operating mode	Integrated LED driver

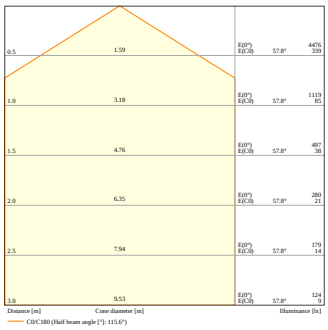
1) For possible options refer to lumen/power table image

Photometrical data

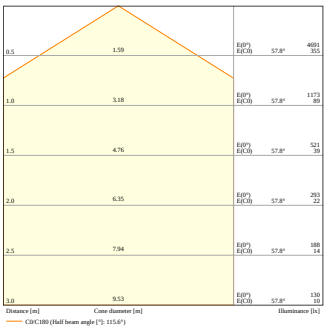
Luminous flux	3780 lm / 2660 lm [1)]
Luminous efficacy	140 lm/W / 133 lm/W [1)]
Color temperature	3000 K / 4000 K
Light color (designation)	Warm White / Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	3 sdcm
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	<0.4
Photobiological safety group acc. to EN62778	RG0
Beam angle	120 °

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

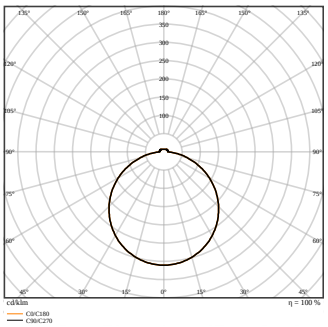
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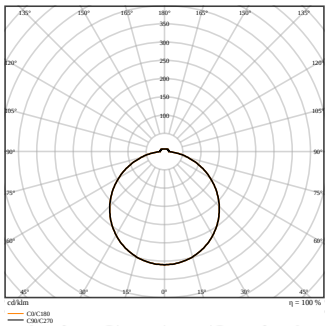
SF FLAT RD SEN 500 P 27W 3000K 3600lm



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



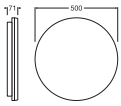
SF FLAT RD SEN 500 P 27W 3000K 3600lm



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

Dimensions & Weight

Diameter	500.00 mm
Height	71.00 mm
Product weight	3056.00 g



SF FLAT RD 500 27W CPS

Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003

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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
Type of protection	IP54
Protection class IK (shock resistance)	IK08
Dimmable	No
Mounting type	Surface
Mounting location	Ceiling / Wall
Application environment	Indoor
With light source	Yes
Replaceable light source	Yes

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 %

Sensor

Type of sensor	Motion / Light
Sensor technology	Microwave
Sensor detection angle	120 °
Sensor controlled switching time	5 s…20 min
Detection range of motion sensor	3…7 m

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Detection threshold of daylight sensor	15…150 lx

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 LUMEN / MULTI COLOR

Accessories Optional

Product image	Product name	EAN
	LISOEV 500 R 27W 830 840 SF FLAT	4099854312236
	SF FLAT 500 ROUND FRAME SI	4099854292972
	DR DS SENS-P- 27/220-240V/650 SF FL	4099854292873
	SENSOR SF FLAT LEADER FOLLOWER	4099854292897

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 R 27W 830 840 SF FLAT	4099854312236

Components Driver

Product image	Product name	EAN
	DR DS SENS-P- 27/220-240V/650 SF FL	4099854292873

Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	SF FLAT
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
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	SF FLAT RD SQ SEN P CPS
PDF	Declarations of conformity UKCA	SF FLAT RD SQ SEN P CPS
PDF	Certificates	ENEC SF FLAT
PDF	EPD	EPD EN SURFACE FLAT

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	Photometric and lighting design files	Document name
	IES file (IES)	SF FLAT RD SEN 500 P 27W 3000K 3600lm
	IES file (IES)	SF FLAT RD SEN 500 P 27W 4000K 3780lm
	LDT file (Eulumdat)	SF FLAT RD SEN 500 P 27W 3000K 3600lm
	LDT file (Eulumdat)	SF FLAT RD SEN 500 P 27W 4000K 3780lm
	ULD file (DIALux)	SF FLAT RD SEN 500 P 27W CPS
	ROLF file (RELUX)	SF FLAT RD SEN 500 P 27W CPS
	UGR file (UGR table)	SF FLAT RD SEN 500 P 27W 3000K 3600lm
	UGR file (UGR table)	SF FLAT RD SEN 500 P 27W 4000K 3780lm
	Light distribution curve type cone	SF FLAT RD SEN 500 P 27W 3000K 3600lm
	Light distribution curve type cone	SF FLAT RD SEN 500 P 27W 4000K 3780lm
	Light distribution curve type polar	SF FLAT RD SEN 500 P 27W 3000K 3600lm
	Light distribution curve type polar	SF FLAT RD SEN 500 P 27W 4000K 3780lm

	CAD/BIM files	Document name
	BIM Revit 3D	Surface Flat
	CAD STEP 3D	SF FLAT RD 500

	Tender texts	Document name
	Tender documents	SURFACE FLAT ROUND SENSOR 500 P 27W CPS-EN

LOGISTICAL DATA

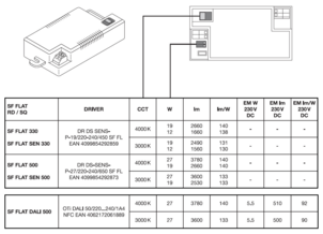
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854292736	Folding box 1	77 mm x 507 mm x 507 mm	3317.00 g	19.79 dm^3

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Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854292743	Shipping box 4	520 mm x 327 mm x 530 mm	14118.00 g	90.12 dm^3

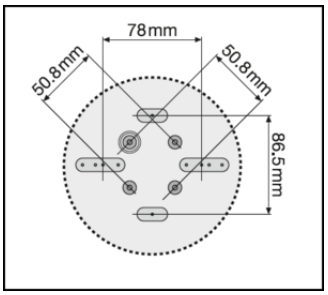
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

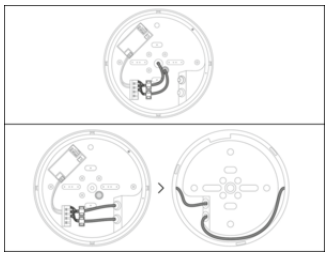
ADDITIONAL CATALOG INFORMATION

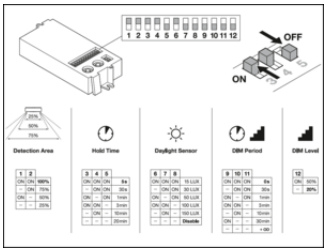


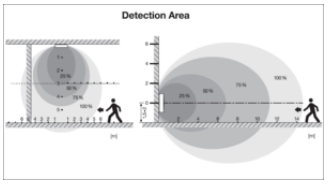


www.ledvance.com/everloop-replacement









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.

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