PRODUCT DATASHEET
SF CIRC 500 V 42W 830 IP44 DALI

SURFACE CIRCULAR 500 DALI | Wall and ceiling luminaire with IP44 and DALI-2 technology

VALUE CLASS

Areas of application

- Corridors
- Stairways
- Bathrooms
- Foyers

Product benefits

- Indoor luminaire with high luminous efficacy
- Integrated DALI-2 driver for extended functionalities
- Energy savings of up to 55 % compared to luminaires that use CFL
- Easy and quick installation
- Very homogenous light
- 5 years guarantee

Product features

- Type of protection: IP44 (ceiling mounting), IP20 (wall mounting)
- Suitable for central battery emergency installations acc. to EN 60598-2-22
- Push DIM function for dimming and switching directly on a pushbutton
- Extended lifetime (L70/B10): up to 50,000 h (at 25°C)
- Impact resistance: IK03
- Metal housing, PMMA cover
- Ambient temperature in operation: -20…+40 °C
- Indoor use only, not suitable for outdoor use



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TECHNICAL DATA

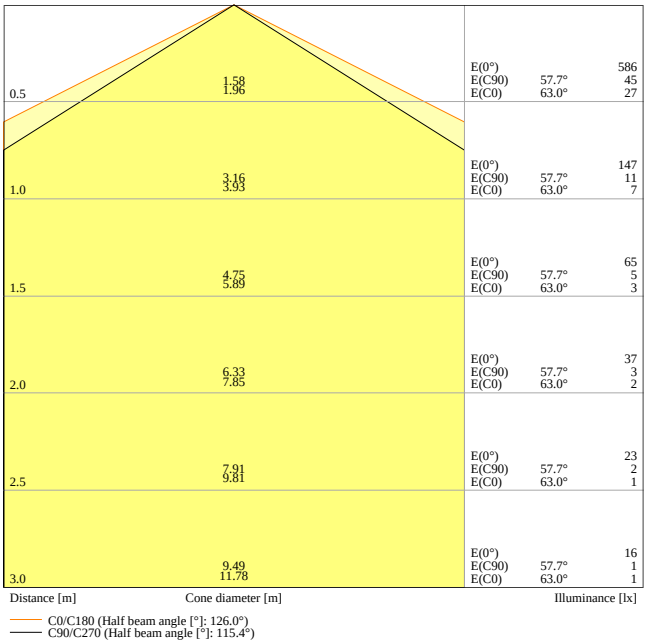
Electrical data

Nominal wattage	42.00 W
Nominal voltage	220…240 V
Mains frequency	0/50/60 Hz
Nominal current	180.000 mA
Inrush current	10.90 A
Inrush current time T_{h50}	330 µs
Max. number of luminaires per miniature circuit breaker B16	25
Max. number of luminaires per miniature circuit breaker C10	26
Max. number of luminaires per miniature circuit breaker C16	43
Power factor λ	> 0.90
Maximum total harmonic distortion	< 10 %
Protection class	I
Operating mode	Integrated LED driver
Dimming interface	DALI-2 / IoT / Push-DIM

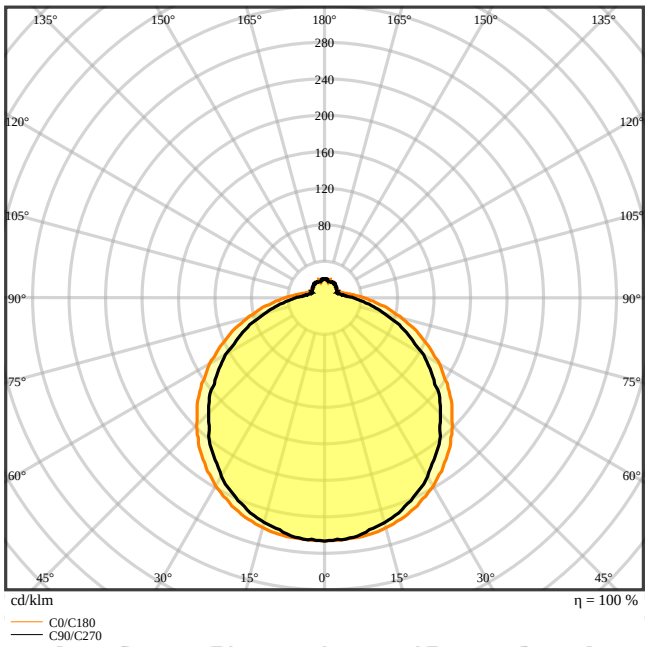
Photometrical data

Luminous flux	3500 lm
Luminous efficacy	83 lm/W
Color temperature	3000 K
Light color (designation)	Warm White
Color rendering index Ra	> 80
Standard deviation of color matching	< 5 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 °

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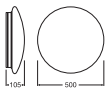
SF CIRC 500 V 42W 830 IP44 PS 3500LM DALI



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Dimensions & Weight

Diameter	500.00 mm
Height	105.00 mm
Product weight	1260.00 g



SF CIRC 500

Materials & Colors

Product color	White
Housing color	White
Body material	Steel
Cover material	Polymethylmethacrylate (PMMA)
Light emitting surface material	Polymethylmethacrylate (PMMA)

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Glow Wire Test according to IEC 60695-2-12	650 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	-20…+45 °C
Temperature range at storage	-20…+80 °C
Type of connection	Terminal, 5-pin
Type of protection	IP44
Protection class IK (shock resistance)	IK03
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	No

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	50000 h [1)]
Lifespan L80/B10 at 25 °C	45000 h [1)]
Lifespan L80/B50 at 25 °C	45000 h
Lifespan L90/B10 at 25 °C	40000 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	1000 mA
Output ripple current (100 Hz)	< 30 %

Emergency lighting

Type of Emergency Lighting (EL)	EL certified driver (0Hz / DC operation) for central battery operation included
Wattage in emergency operation mode	6 W
Luminous flux in emergency operation mode	550 lm

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Certificates & Standards

Standards	CE / CB / TÜV / UKCA / EAC
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
Replaceable light source (EPREL)	Not replaceable

Additional product data

Added function	VIVARES

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
	PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075837584

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Product image	Product name	EAN
	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
	SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION	4058075843868

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Product image	Product name	EAN
	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

EQUIPMENT / ACCESSORIES

– Replacement cover optionally available

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	SF CIRC 500
PDF	Legal information	LISO Insert SF CIRCULAR 500
PDF	Legal information	Legal Insert SF CIRCULAR 500
PDF	Legal information	Informationstext 18 Abs 4 ElektroG

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	Documents and certificates	Document name
PDF	Declarations of conformity	SF CIRCULAR
PDF	Declarations of conformity UKCA	SF CIRCULAR
PDF	EU Data Act	DALI LED Driver and Luminaires

	Photometric and lighting design files	Document name
IES	IES file (IES)	SF CIRC 500 V 42W 830 IP44 PS 3500LM DALI
LDT	LDT file (Eulumdat)	SF CIRC 500 V 42W 830 IP44 PS 3500LM DALI
ULD	ULD file (DIALux)	SF CIRC 500V 42W 830 IP44 DALI
ROLF	ROLF file (RELUX)	SURFACE CIRCULAR 500 DALI 42W 830
	UGR file (UGR table)	SF CIRC 500 V 42W 830 IP44 PS 3500LM DALI
	Light distribution curve type cone	SF CIRC 500 V 42W 830 IP44 PS 3500LM DALI
	Light distribution curve type polar	SF CIRC 500 V 42W 830 IP44 PS 3500LM DALI

	CAD/BIM files	Document name
RFA	BIM Revit 3D	SURFACE CIRCULAR
STEP	CAD STEP 3D	SF CIRC 500

	Tender texts	Document name
TXT	Tender documents	SURFACE CIRCULAR 500 DALI 42W 830 IP44 DALI-EN

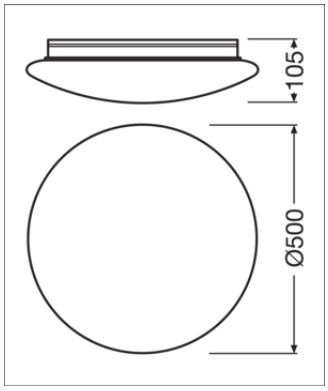
LOGISTICAL DATA

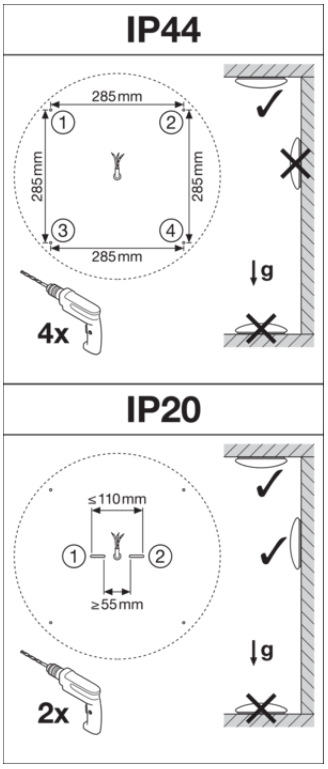
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854077890	Folding box 1	112 mm x 527 mm x 534 mm	1732.00 g	31.52 dm^3
4099854077906	Shipping box 5	582 mm x 547 mm x 564 mm	10699.00 g	179.55 dm^3

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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





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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