PRODUCT DATASHEET
SF CIRC 500 ZB V 42W 830 IP44

SURFACE CIRCULAR 500 ZIGBEE | Wall and ceiling luminaire with IP44 and Zigbee 3.0 technology

VALUE CLASS

Areas of application

- Corridors
- Stairways
- Bathrooms
- Foyers

Product benefits

- Suitable luminaire for DIRECT EASY / VIVARES Zigbee and other Zigbee 3.0 Light Management Systems
- Indoor luminaire with high luminous efficacy
- Integrated Zigbee 3.0 driver for extended functionalities
- Energy savings of up to 55 % compared to luminaires that use CFL
- Easy and quick installation
- Very homogenous light

Product features

- IoT-ready luminaire with Zigbee 3.0 technology
- Suitable for central battery emergency installations acc. to EN 60598-2-22
- Extended lifetime (L70/B10): up to 50,000 h (at 25°C)
- Type of protection: IP44 (ceiling mounting), IP20 (wall mounting)
- Metal housing, PMMA cover
- Ambient temperature in operation: -20…+40 °C
- Indoor use only, not suitable for outdoor use

© 2026, LEDVANCE GmbH. All rights reserved.

TECHNICAL DATA

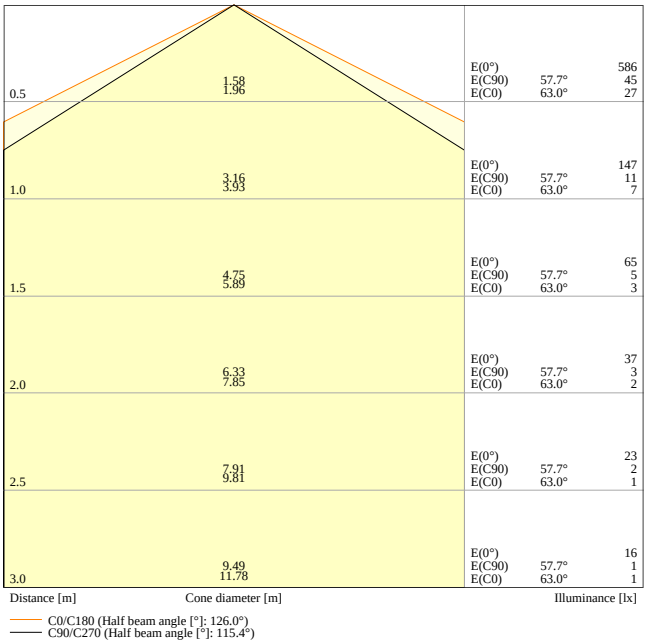
Electrical data

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
Dimming interface	Zigbee Direct / IoT

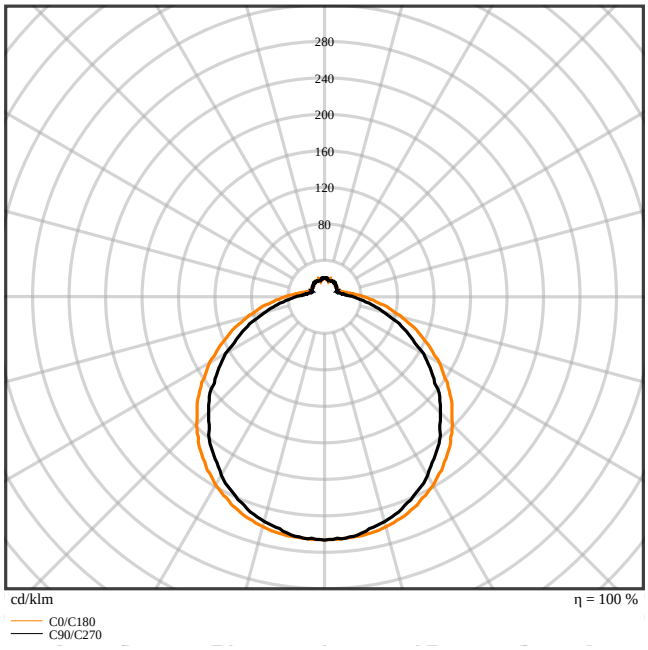
Photometrical data

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 °

© 2026, LEDVANCE GmbH. All rights reserved.



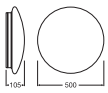
SF CIRC 500 ZB V 42W 830 IP44



SF CIRC 500 ZB V 42W 830 IP44

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

© 2026, LEDVANCE GmbH. All rights reserved.

Application & Mounting

Ambient temperature range	-20…+45 °C
Temperature range at storage	-20…+80 °C
Type of connection	Terminal, 3-pin
Type of protection	IP44
Protection class IK (shock resistance)	IK03
Dimmable	Yes
IoT ready	Support of Zigbee Data Clusters: 0x0302 (Luminaire Asset Management), 0x0702 (Smart Energy: Metering), 0x0B04 (Electrical Measurement) [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
Type of emergency operation test	None
Wattage in emergency operation mode	6 W
Luminous flux in emergency operation mode	600 lm

Certificates & Standards

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

© 2026, LEDVANCE GmbH. All rights reserved.

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 SELECT DIRECT 100-240 TW RGB ZB	4099854476334
	SENSOR DIRECT LS-PD-7 IR CI ZB	4099854476358
	SWITCH KINETIC DIRECT 4B WT M ZB	4099854589799
	SWITCH KINETIC DIRECT 4B WT G ZB	4099854589812
	SWITCH KINETIC DIRECT 4B BK ZB	4099854589836
	SWITCH KINETIC DIRECT 4B GR ZB	4099854589850
	VIVARES ZB CONTROL	4058075427488
	VIVARES ZB L/O SENS 220-240	4058075446182
	VIVARES ZB O SENS 220-240	4058075544222

© 2026, LEDVANCE GmbH. All rights reserved.

Product image	Product name	EAN
	VIVARES ZB COUPLER	4058075463806
	VIVARES ZB SENS ADAPTER	4058075650107

EQUIPMENT / ACCESSORIES

- Replacement cover optionally available

Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- Product in protection class I. All electrically conductive, metallic housing parts that can absorb voltage during operation or during maintenance in the event of a fault must be continuously connected to the protective earthing conductor.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	G11230682 SURFACE CIRCULAR
PDF	Extended installation guide	App Download Guide
PDF	Legal information	SF CIRC ZB V IP44
PDF	Legal information	Safety Insert
PDF	Legal information	Safety insert G11254727
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	SF CIRC 500 ZB V 42W IP44
PDF	Declarations of conformity UKCA	SF CIRC 500 ZB V 42W IP44
PDF	EU Data Act	SMART ZigBee Lamps and Luminaires

	Photometric and lighting design files	Document name
IES	IES file (IES)	SF CIRC 500 ZB V 42W 830 IP44

© 2026, LEDVANCE GmbH. All rights reserved.

	Photometric and lighting design files	Document name
	LDT file (Eulumdat)	SF CIRC 500 ZB V 42W 830 IP44
	UGR file (UGR table)	SF CIRC 500 ZB V 42W 830 IP44
	Light distribution curve type cone	SF CIRC 500 ZB V 42W 830 IP44
	Light distribution curve type polar	SF CIRC 500 ZB V 42W 830 IP44

	CAD/BIM files	Document name
	BIM Revit 3D	SURFACE CIRCULAR

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854514739	Folding box 1	112 mm x 527 mm x 534 mm	1732.00 g	31.52 dm^3
4099854514746	Shipping box 5	582 mm x 547 mm x 564 mm	10699.00 g	179.55 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.

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.

© 2026, LEDVANCE GmbH. All rights reserved.