PRODUCT DATASHEET
LN SF 1500 ZB P 45W 840 WT IP44

LINEAR SURFACE IP44 ZIGBEE | Robust IP44 luminaire with direct light emission, integrated Zigbee 3.0 driver, up to 137 lm/W



PERFOR-
MANCE
CLASS

Areas of application

- Efficient replacement for traditional T8 and T5 luminaires
- Public buildings
- General illumination
- Libraries, schools

Product benefits

- Suitable luminaire for DIRECT EASY / VIVARES Zigbee and other Zigbee 3.0 Light Management Systems
- Low maintenance and low operational costs
- Protection against cover falling, theft and vandalism thanks to safety screws
- Cable entry on the back of the luminaire and on each end-caps for easy electrical connection
- Easy and quick installation
- Low flicker light thanks to special electronic control gear

Product features

- IoT-ready luminaire with Zigbee 3.0 technology
- Surface mounted luminaires with direct light emission
- Type of protection: IP44
- Impact resistance: IK08
- Available in 3 different lengths: 600 mm, 1200 mm and 1500 mm
- Luminous efficacy: up to 137 lm/W
- Through-wiring cable already installed
- Lifetime (L80/B10): 70,000 h (at 25 °C)
- White painted steel housing (like RAL: 9003)
- Diffuser material: UV-stable polycarbonate
- End caps (made of polycarbonate) screwed to the housing

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TECHNICAL DATA

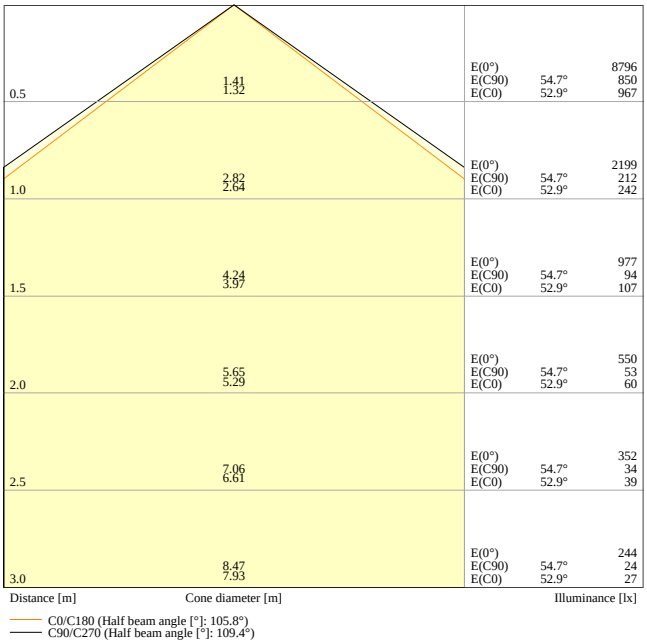
Electrical data

Nominal wattage	45.00 W
Nominal voltage	220…240 V
Mains frequency	50…60 Hz
Nominal current	195.000 mA
Inrush current	< 15 A
Inrush current time T_{h50}	200 µs
Max. number of luminaires per miniature circuit breaker B16	25
Max. number of luminaires per miniature circuit breaker C10	21
Max. number of luminaires per miniature circuit breaker C16	34
Power factor λ	> 0.90
Maximum total harmonic distortion	< 20 %
Protection class	I
Dimming interface	Zigbee Direct / IoT

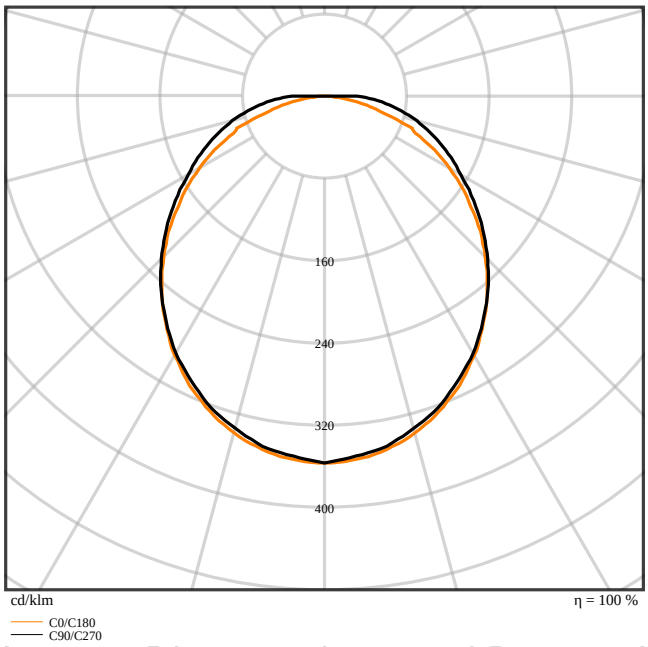
Photometrical data

Luminous flux	6165 lm
Luminous efficacy	137 lm/W
Color temperature	4000 K
Light color (designation)	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	110 °

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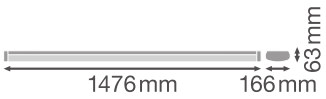
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Dimensions & Weight

Length	1476.00 mm
Width	166.00 mm
Height	64.00 mm
Product weight	3120.00 g



LN SF 1500 P 45W WT IP44

Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9010

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Body material	Steel
Cover material	Polycarbonate (PC)
Light emitting surface material	Polycarbonate (PC)
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	Screwless terminal, 3-POLE (L, N, PE)
Type of protection	IP44
Protection class IK (shock resistance)	IK08
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
Application environment	Indoor
Mechanically adjustable	No
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	70000 h [1)]
Lifespan L80/B10 at 25 °C	70000 h [1)]
Lifespan L80/B50 at 25 °C	70000 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	1070 mA
Output ripple current (100 Hz)	< 5 %
ECG - Length	178 mm
ECG - Width	45 mm
ECG - Height	25 mm

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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

Certificates & Standards

Standards	CE / UKCA / ROHS / TÜV
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 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

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Product image	Product name	EAN
	VIVARES ZB L/O SENS 220-240	4058075446182
	VIVARES ZB O SENS 220-240	4058075544222
	VIVARES ZB COUPLER	4058075463806
	VIVARES ZB SENS ADAPTER	4058075650107

EQUIPMENT / ACCESSORIES

- Equipped with through-wiring cables and connectors
- Tool-free cable strain reliefs included

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	User instruction G11230681 Linear Surface P ZB
PDF	Extended installation guide	App Download Guide
PDF	Legal information	LN SF ZB P IP44
PDF	Legal information	Safety Insert
PDF	Legal information	Safety insert G11254727
PDF	Declarations of conformity	LN SF ZB P WT IP44
PDF	Declarations of conformity UKCA	LN SF ZB P WT IP44
PDF	EU Data Act	SMART ZigBee Lamps and Luminaires

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	Photometric and lighting design files	Document name
	IES file (IES)	LN SF 1500 ZB P 45W 840 WT IP44
	LDT file (Eulumdat)	LN SF 1500 ZB P 45W 840 WT IP44
	UGR file (UGR table)	LN SF 1500 ZB P 45W 840 WT IP44
	Light distribution curve type cone	LN SF 1500 ZB P 45W 840 WT IP44
	Light distribution curve type polar	LN SF 1500 ZB P 45W 840 WT IP44

	CAD/BIM files	Document name
	BIM Revit 3D	Linear Surface IP44 G2

	Tender texts	Document name
	Tender documents	LINEAR SURFACE IP44 ZIGBEE 45W 840 WT IP44-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854515156	Folding box 1	1,489 mm x 172 mm x 70 mm	3550.00 g	17.93 dm^3
4099854515163	Shipping box 4	1,503 mm x 302 mm x 200 mm	15385.00 g	90.78 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.

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