PRODUCT DATASHEET
LN SF IP44 1500 P 45W 840 WT

LINEAR SURFACE IP44 | Robust IP44 luminaires with direct light emission and integrated driver for surface applications, 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

- 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
- 5 years guarantee

Product features

- 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



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– End caps (made of polycarbonate) screwed to the housing

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TECHNICAL DATA

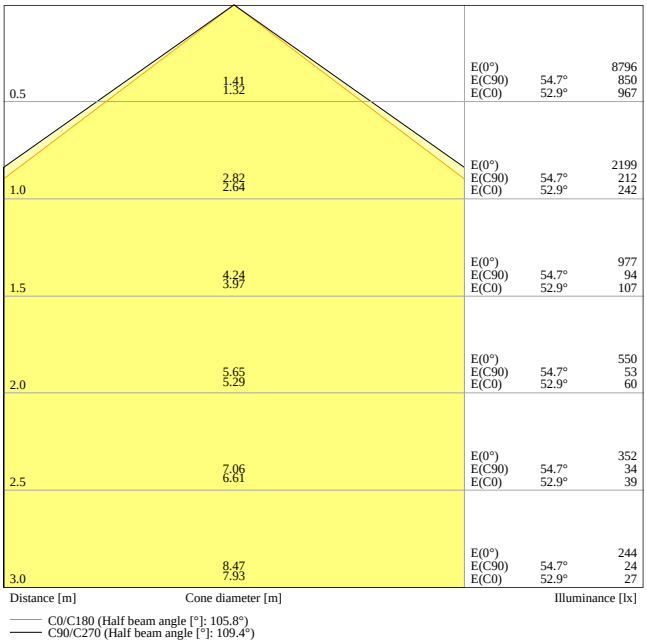
Electrical data

Nominal wattage	45.00 W
Nominal voltage	220…240 V
Mains frequency	50…60 Hz
Nominal current	210.000 mA
Inrush current	24 A
Inrush current time T_{h50}	100 µs
Max. number of luminaires per miniature circuit breaker B16	22
Max. number of luminaires per miniature circuit breaker C10	14
Max. number of luminaires per miniature circuit breaker C16	22
Power factor λ	> 0.90
Maximum total harmonic distortion	< 20 %
Protection class	I
Operating mode	Integrated LED driver

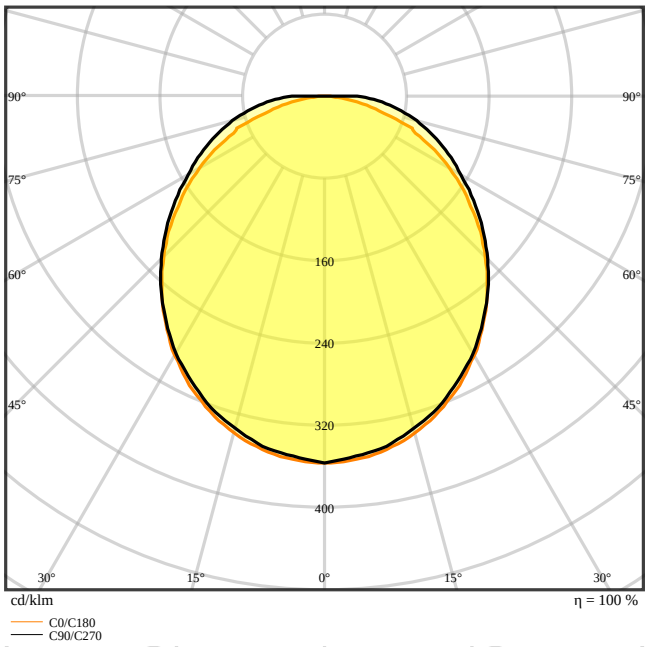
Photometrical data

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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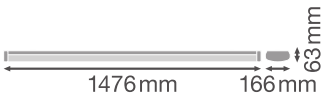
LN SF 1500 P 45W 840 WT IP44



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Dimensions & Weight

Length	1476.00 mm
Width	166.00 mm
Height	63.00 mm
Product weight	3000.00 g



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Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
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…+40 °C
Temperature range at storage	-40…+80 °C
Type of connection	Screwless terminal, 3-Pole
Type of protection	IP44
Protection class IK (shock resistance)	IK08
Dimmable	No
Mounting type	Surface
Mounting location	Wall / Ceiling
Application environment	Indoor
Mechanically adjustable	No
With light source	Yes
Replaceable light source	No

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	43000 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)	< 10 %

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Certificates & Standards

Standards	CE / CB / ENEC / TÜV SÜD / UKCA / EAC / EPD
Luminaire with limited surface temperature, "D sign"	Yes
Ball shot safe	No
EPD	LEDV-00047-V01.01-EN
Replaceable light source (EPREL)	Not replaceable

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	UI LN SF P
PDF	Legal information	Light Source Insert LN SF P WT IP44
PDF	Legal information	Legal insert
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	LN SF IP44
PDF	Declarations of conformity UKCA	UKCA Declaration of conformity LN SF IP44
PDF	Certificates	ENEC LN SF IP44 ONOFF
PDF	EPD	EPD EN LINEAR SURFACE IP44

	Photometric and lighting design files	Document name
IES	IES file (IES)	LN SF 1500 P 45W 840 WT IP44

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

	CAD/BIM files	Document name
	BIM Revit 3D	Linear Surface IP44 G2
	CAD STEP 3D	LN SF IP44 G2 1500

	Tender texts	Document name
	Tender documents	LINEAR SURFACE IP44 1500 P 45W 840 WT-EN

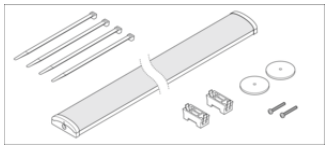
LOGISTICAL DATA

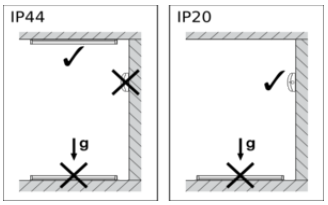
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075733138	Folding box 1	1,489 mm x 172 mm x 70 mm	3730.00 g	17.93 dm^3
4058075733145	Shipping box 4	1,503 mm x 302 mm x 200 mm	16105.00 g	90.78 dm^3

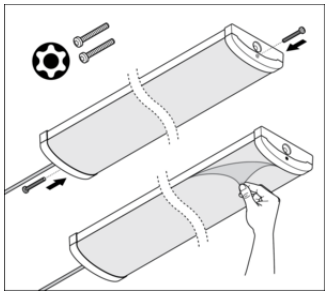
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

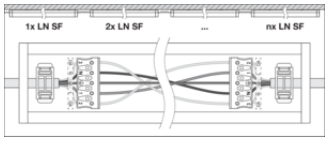
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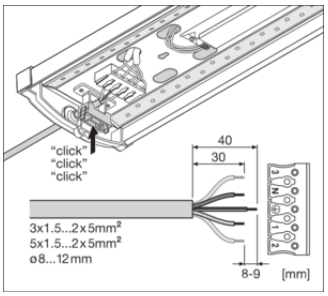
ADDITIONAL CATALOG INFORMATION

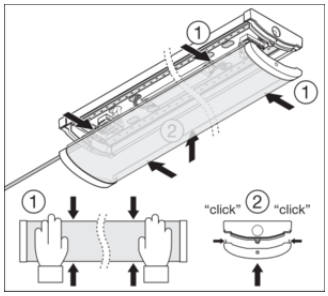












References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

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