

PRODUCT DATASHEET

LN SF IP44 600 P 18W 840 WT

LINEAR SURFACE IP44 | Robust IP44 luminaires with direct light emission and integrated driver for surface applications, up to 137 lm/W

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
- High 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

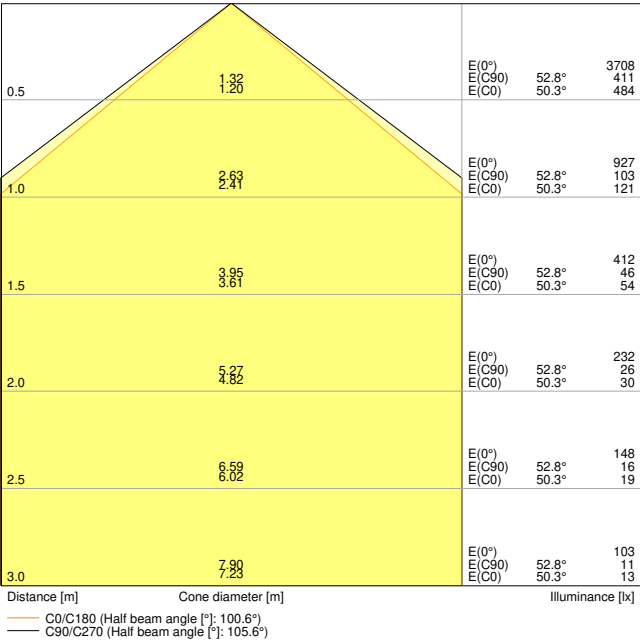
TECHNICAL DATA

Electrical data

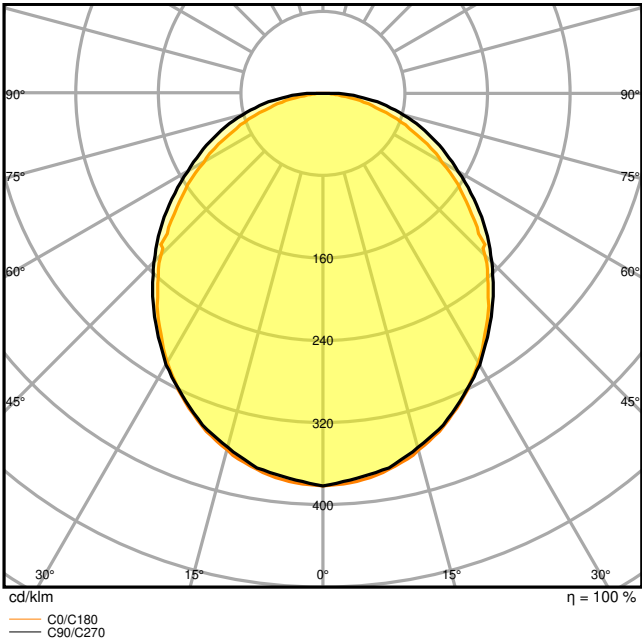
Nominal wattage	18.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	90.000 mA
Inrush current	11 A
Inrush current time T_{h50}	100 μ s
Max. number of luminaires per miniature circuit breaker B16	49
Max. number of luminaires per miniature circuit breaker C10	30
Max. number of luminaires per miniature circuit breaker C16	49
Power factor λ	> 0.90
Total harmonic distortion	< 20 %
Protection class	I
Operating mode	Integrated LED driver

Photometrical data

Luminous flux	2430 lm
Luminous efficacy	135 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	< 3 sdc _{cm}
Low flicker	Yes
Flickering metric (Pst LM)	< 1
Stroboscope effect metric (SVM)	< 0.4
Photobiological safety group acc. to EN62778	RG0
Beam angle	110 °



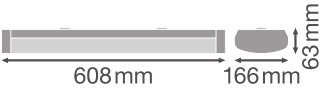
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Dimensions & Weight

Length	608.00 mm
Width	166.00 mm
Height	63.00 mm
Product weight	1400.00 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
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	51000 h
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	440 mA
ECG - Output ripple current	< 10 %

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

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	UI LN SF P
	Legal information	Light Source Insert LN SF P WT IP44
	Legal information	Legal insert
	Legal information	Informationstext 18 Abs 4 ElektroG
	Declarations of conformity	LN SF IP44
	Declarations of conformity UKCA	UKCA Declaration of conformity LN SF IP44
	Certificates	ENEC LN SF IP44 ONOFF
	EPD	EPD EN LINEAR SURFACE IP44

Photometric and lighting design files		Document name
	IES file (IES)	LN SF 600 P 18W 840 WT IP44
	LDT file (Eulumdat)	LN SF 600 P 18W 840 WT IP44
	ULD file (DIALux)	LN SF 600 P 18W 840

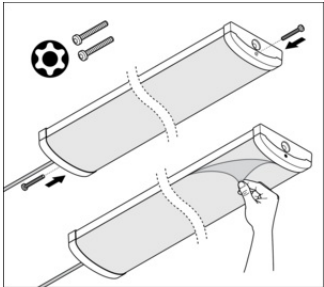
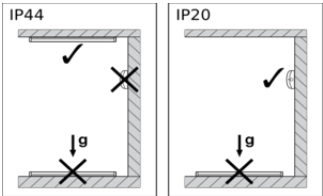
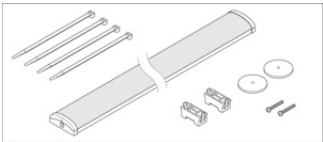
Photometric and lighting design files		Document name
	ROLF file (RELUX)	LN SF 600 P 18W 840
	UGR file (UGR table)	LN SF 600 P 18W 840 WT IP44
	Light distribution curve type cone	LN SF 600 P 18W 840 WT IP44
	Light distribution curve type polar	LN SF 600 P 18W 840 WT IP44
CAD/BIM files		Document name
	BIM Revit 3D	Linear Surface IP44 G2
	CAD STEP 3D	LN ST IP44 G2 600
Tender texts		Document name
	Tender documents	LINEAR SURFACE IP44 600 P 18W 840 WT-EN

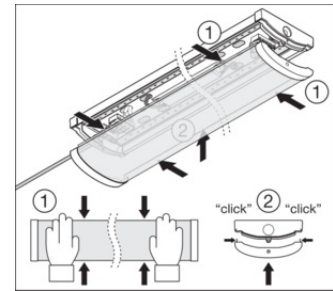
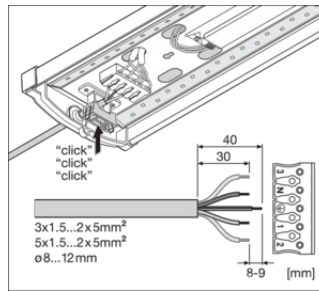
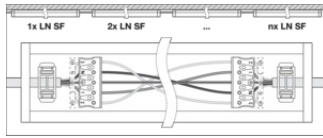
LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075733091	Folding box 1	621 mm x 172 mm x 70 mm	1850.00 g	7.48 dm³
4058075733107	Shipping box 4	635 mm x 302 mm x 200 mm	8020.00 g	38.35 dm³

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.