

# PRODUCT DATASHEET

## LN SF IP44 DALI 1500 P 45W 840 WT

LINEAR SURFACE IP44 DALI | Robust IP44 luminaires with direct light emission, integrated DALI driver, up to 137 lm/W

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### Areas of application

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



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### 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

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### 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)
- Diffusor material: UV-stable polycarbonate
- End caps (made of polycarbonate) screwed to the housing

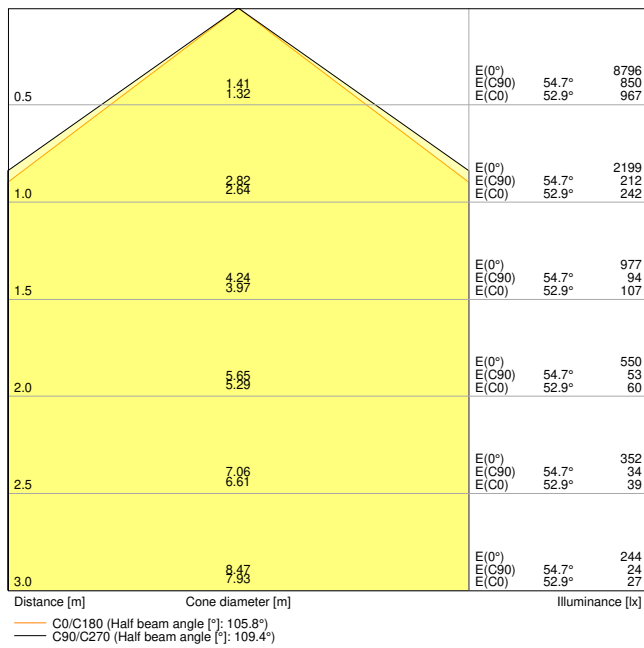
## TECHNICAL DATA

### Electrical data

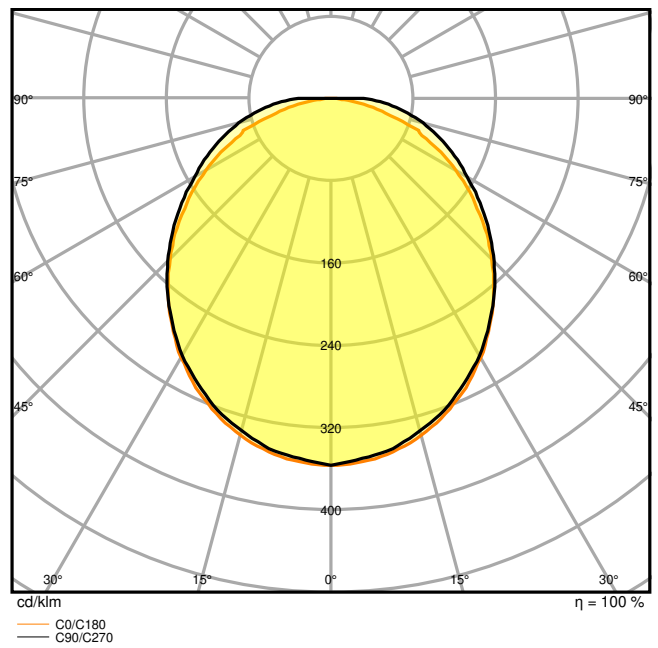
Nominal wattage	45.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	200 mA
Inrush current	< 21 A
Inrush current time $T_{h50}$	230 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	20
Max. number of luminaires per miniature circuit breaker C10	21
Max. number of luminaires per miniature circuit breaker C16	35
Power factor $\lambda$	> 0.90
Total harmonic distortion	< 20 %
Protection class	I
Operating mode	Integrated LED driver
Dimming interface	DALI-2

### 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 sdc <sub>m</sub>
Low flicker	Yes
Flickering metric (Pst LM)	< 1
Stroboscope effect metric (SVM)	< 0.4
Photobiological safety group acc. to EN62778	RG0
Beam angle	110 °



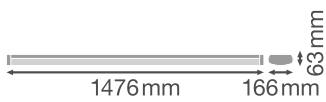
LN SF 1500 P 45W 840 WT IP44 DALI



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Dimensions & Weight

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



LN SF 1500 P 45W WT IP44

Materials & Colors

Product color	White
Housing color	White
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, 5-Pole (L, N, PE, DA+, DA-)
Type of protection	IP44
Protection class IK (shock resistance)	IK08
Dimmable	Yes
Type of dimming	DALI2
Mounting type	Surface
Mounting location	Wall / Ceiling
Application environment	Indoor
Adjustable	No
With light source	Yes

### Lifespan

Lifespan L70/B50 at 25 °C	70000 h <sup>1)</sup>
Lifespan L80/B10 at 25 °C	70000 h <sup>1)</sup>
Lifespan L80/B50 at 25 °C	70000 h
Lifespan L90/B10 at 25 °C	50000 h
Number of switching cycles	100000

<sup>1)</sup> 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	1050 mA
ECG - Output ripple current	< 10 %
Recommended control gear	OTi DALI 50/220-240/1A4 NFC L

### Certificates & Standards

Standards	CE / CB / ENEC / TÜV SÜD / 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
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Accessories Optional







Product image	Product name	EAN
	OTi DALI 50/220...240/1A4 NFC L	4062172074988



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 IP44 DALI
	Legal information	Light Source Insert LN SF P WT IP44 DALI
	Legal information	Legal insert LN SF P IP44 DALI
	Legal information	Informationstext 18 Abs 4 ElektroG
	Declarations of conformity	LN SF P WT IP44 DALI
	Declarations of conformity UKCA	LN SF WT IP44 DALI
	Certificates	ENEC LN SF IP44 DALI
Photometric and lighting design files		Document name
	IES file (IES)	LN SF 1500 P 45W 840 WT IP44 DALI

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

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

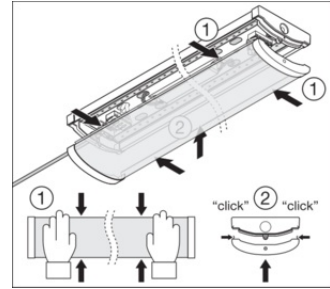
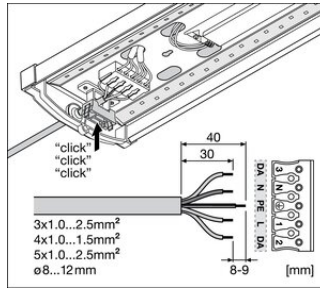
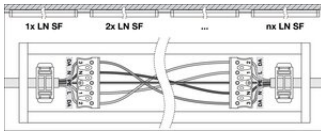
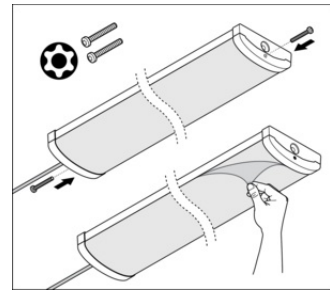
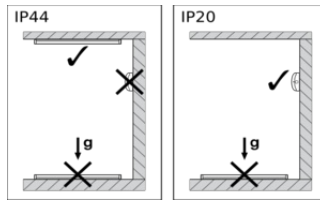
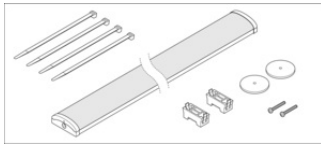
Tender texts		Document name
	Tender documents	LINEAR SURFACE IP44 DALI 1500 P 45W 840 WT-EN

**LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075733374	Folding box 1	1,489 mm x 172 mm x 70 mm	3750.00 g	17.93 dm <sup>3</sup>
4058075733381	Shipping box 4	1,503 mm x 302 mm x 200 mm	16185.00 g	90.78 dm <sup>3</sup>

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](http://www.ledvance.com/guarantee)

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