

# PRODUCT DATASHEET

## LN UO P 1500 48W CPS WT

LINEAR ULTRA OUTPUT GEN 2 | Surface luminaire with high luminous efficacy up to 150 lm/W

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### Areas of application

- Direct replacement for luminaires with fluorescent lamps
- Indoor applications
- Industrial and commercial halls
- Public areas
- Corridors, stairwells, basements



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### Product benefits

- SMD LEDs are moisture-proof and corrosion-proof thanks to tri-proof coating
- Replacement of conventional T8 tubes with up to 4050 lm (1.2m version) and up to 7200 lm (1.5m version)
- Energy savings up to 70 % (compared to luminaires that use fluorescent lamps)
- Robust structure with IK08
- Easy installation and versatile application
- 5 years guarantee

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### Product features

- Three-proof coating to improve the protection of the SMD LEDs
- Very high luminous efficacy: up to 150 lm/W
- Robust metal housing and PC diffuser
- Through wiring possible





## TECHNICAL DATA

### Electrical data

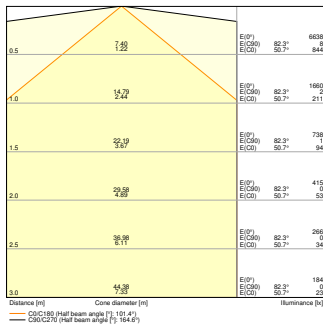
Nominal wattage	48 W / 40 W / 32 W / 24 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	207 ...175 ...146...114 mA
Inrush current	37 A
Inrush current time $T_{h50}$	120 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	18
Max. number of luminaires per miniature circuit breaker C10	13
Max. number of luminaires per miniature circuit breaker C16	21
Power factor $\lambda$	> 0.90
Total harmonic distortion	$\leq$ 20 %
Protection class	I
Operating mode	Integrated LED driver

### Photometrical data

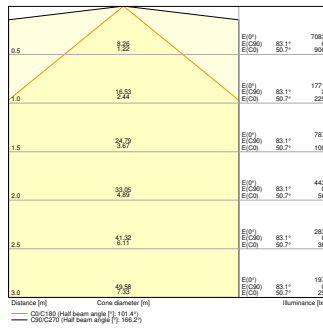
Luminous flux	6270 lm / 5600 lm / 4480 lm / 3360 lm <sup>1)</sup>
Luminous efficacy	150 lm/W <sup>2)</sup>
Color temperature	3000 K / 4000 K
Light color (designation)	Warm White / Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	3 sdc <sub>m</sub>
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	< 0.4
Photobiological safety group acc. to EN62778	RG0
Beam angle	110 °

1) 6720lm / 5600lm / 4480lm / 3360lm @3000K

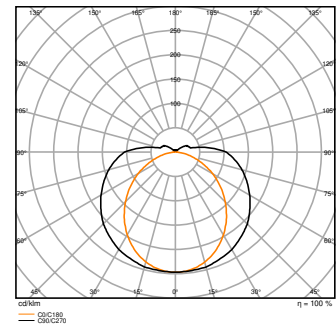
2) 140 lm/W @3000K



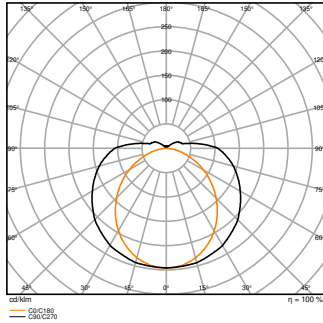
LN UO P 1500 48W 3000K CPS



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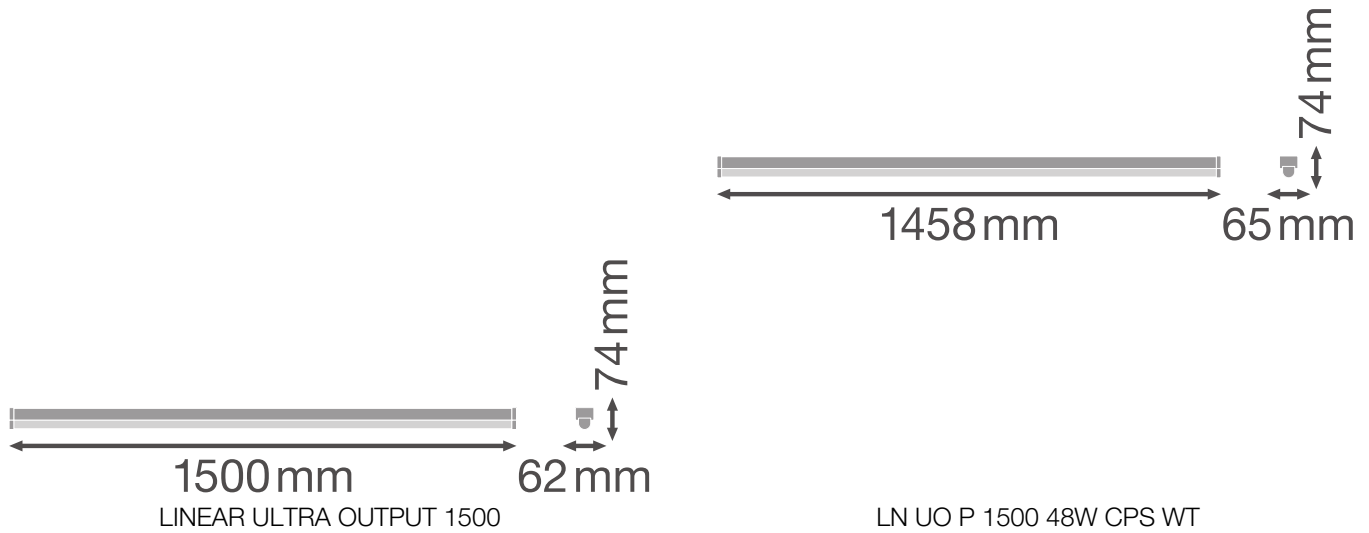
LN UO P 1500 48W 3000K CPS



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### Dimensions & Weight

Length	1458.00 mm
Width	65.00 mm
Height	74.00 mm
Product weight	1400.00 g



### 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	850 °C
Mercury content	0.0 mg

### Application & Mounting

Ambient temperature range	-20...+40 °C
Type of connection	Screwless terminal
Type of protection	IP20
Protection class IK (shock resistance)	IK08
Dimmable	No
Mounting type	Surface
Mounting location	Ceiling / Wall
Application environment	Indoor

Adjustable	No
LED module replaceable	Not replaceable
With light source	Yes

**Lifespan**

Lifespan L70/B50 at 25 °C	88000 h <sup>1)</sup>
Lifespan L80/B10 at 25 °C	70000 h <sup>1)</sup>
Lifespan L90/B10 at 25 °C	30000 h
Number of switching cycles	50000

<sup>1)</sup> t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

**Certificates & Standards**

Standards	CE / CB / ENEC / TÜV SÜD / EAC
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No




**Additional product data**



Product remark	Available from September 2024
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



**EQUIPMENT / ACCESSORIES**

– Mounting screws and dowels included

**DOWNLOAD DATA**

Documents and certificates		Document name
	User Instruction	LINEAR ULTRA OUTPUT GEN2
	Addon Technical Information	Light Source Insert LINEAR ULTRA OUTPUT
	Legal information	Legal Insert LINEAR ULTRA OUTPUT

Photometric and lighting design files		Document name
	IES file (IES)	LN UO P 1500 48W 3000K CPS
	IES file (IES)	LN UO P 1500 48W 4000K CPS

Photometric and lighting design files		Document name
	LDT file (Eulumdat)	LN UO P 1500 48W 3000K CPS
	LDT file (Eulumdat)	LN UO P 1500 48W 4000K CPS
	UGR file (UGR table)	LN UO P 1500 48W 3000K CPS
	UGR file (UGR table)	LN UO P 1500 48W 4000K CPS
	LDC typ cone	LN UO P 1500 48W 3000K CPS
	LDC typ cone	LN UO P 1500 48W 4000K CPS
	LDC typ polar	LN UO P 1500 48W 3000K CPS
	LDC typ polar	LN UO P 1500 48W 4000K CPS
CAD/BIM files		Document name
	BIM_Revit_3D	Linear Ultra Output G2
	CAD_STEP_3D	LN UO G2 1500

### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854296215	Folding box 1	69 mm x 1,464 mm x 77 mm	1700.00 g	7.78 dm <sup>3</sup>
4099854296222	Shipping box 6	1,474 mm x 225 mm x 170 mm	10950.00 g	56.38 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.

### References / Links

– For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

### DISCLAIMER

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