

# PRODUCT DATASHEET

## LN UO P 1200 27W CPS WT

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

### Areas of application

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



### 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

### 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

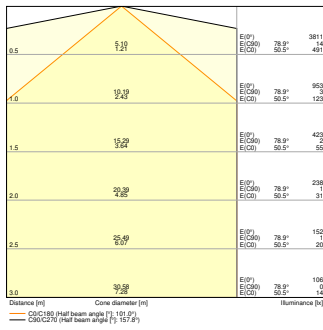
Nominal wattage	27 W / 23.5 W / 20.0 W / 16.5 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	123...108...96...83 mA
Inrush current	24 A
Inrush current time $T_{h50}$	120 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	27
Max. number of luminaires per miniature circuit breaker C10	20
Max. number of luminaires per miniature circuit breaker C16	33
Power factor $\lambda$	> 0.90
Total harmonic distortion	$\leq$ 20 %
Protection class	I
Operating mode	Integrated LED driver

### Photometrical data

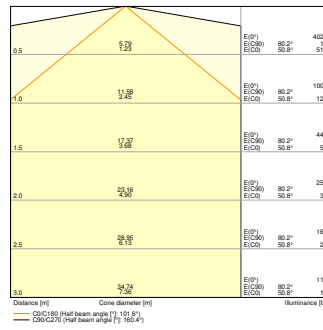
Luminous flux	4050 lm / 3525 lm / 3000 lm / 2475 lm <sup>1)</sup>
Luminous efficacy	150 lm/W <sup>2)</sup>
Color temperature	3000 K / 4000 K
Light color (designation)	Warm White / Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	3 sdc <sub>m</sub>
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	< 0.4
Photobiological safety group acc. to EN62778	RG0
Beam angle	110 °

1) 3780lm / 3290lm / 2800lm / 2310lm @3000K

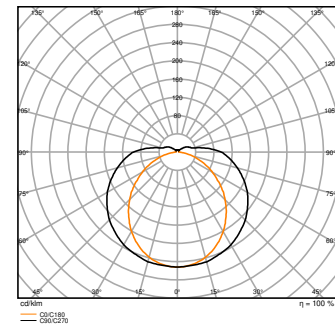
2) 140 lm/W @3000K



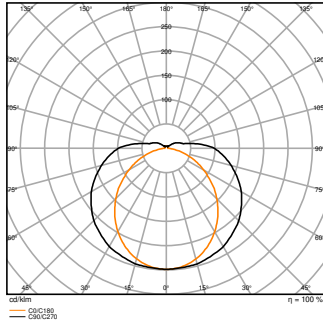
LN UO P 1200 27W 3000K CPS



LN UO P 1200 27W 4000K CPS



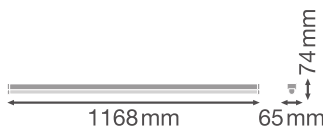
LN UO P 1200 27W 3000K CPS



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Dimensions & Weight

Length	1168.00 mm
Width	65.00 mm
Height	74.00 mm
Product weight	1200.00 g



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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
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 L80/B50 at 25 °C	70000 h
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
Replaceable light source (EPREL)	Not replaceable














### EQUIPMENT / ACCESSORIES







– Mounting screws and dowels 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
	User instruction / safety instructions	LINEAR ULTRA OUTPUT GEN2
	Legal information	Light Source Insert LINEAR ULTRA OUTPUT
	Legal information	Legal Insert LINEAR ULTRA OUTPUT
	Legal information	Informationstext 18 Abs 4 ElektroG
	Legal information	Safety Insert G11205497
	Declarations of conformity	LN UO
Photometric and lighting design files		Document name
	IES file (IES)	LN UO P 1200 27W 3000K CPS
	IES file (IES)	LN UO P 1200 27W 4000K CPS
	LDT file (Eulumdat)	LN UO P 1200 27W 3000K CPS
	LDT file (Eulumdat)	LN UO P 1200 27W 4000K CPS
	ULD file (DIALux)	LN UO P 1200 27W CPS WT
	ROLF file (RELUX)	LN UO P 1200 27W CPS WT
	UGR file (UGR table)	LN UO P 1200 27W 3000K CPS

Photometric and lighting design files		Document name
	UGR file (UGR table)	LN UO P 1200 27W 4000K CPS
	Light distribution curve type cone	LN UO P 1200 27W 3000K CPS
	Light distribution curve type cone	LN UO P 1200 27W 4000K CPS
	Light distribution curve type polar	LN UO P 1200 27W 3000K CPS
	Light distribution curve type polar	LN UO P 1200 27W 4000K CPS
	Spectral power distribution	LN UO P 1200 27W CPS WT

CAD/BIM files		Document name
	BIM Revit 3D	Linear Ultra Output G2
	CAD STEP 3D	LN UO8 G2 1200

**LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854296192	Folding box 1	69 mm x 1,174 mm x 77 mm	1285.00 g	6.24 dm <sup>3</sup>
4099854296208	Shipping box 6	1,184 mm x 225 mm x 170 mm	8365.00 g	45.29 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**

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.