# PRODUCT DATASHEET
# LN UO 1200 P 27W ML 83040 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

- Highly versatile due to selectable CCT and lumen steps (Multi Select)
- SMD LEDs are moisture-proof and corrosion-proof thanks to tri-proof coating
- 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
- Luminous efficacy: up to 150 lm/W
- Robust metal housing and PC diffuser
- Through wiring possible


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# 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 µs |
| 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 λ | > 0.90 |
| Maximum total harmonic distortion | ≤ 20 % |
| Protection class | I |
| Operating mode | Integrated LED driver |

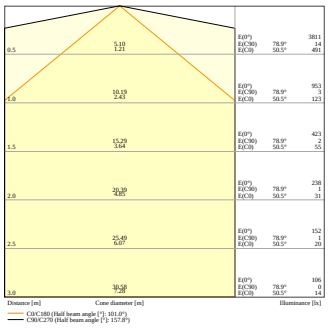
## Photometrical data

| | |
|---|---|
| Luminous flux | 4050 lm / 3525 lm / 3000 lm / 2475 lm [1)] |
| Luminous efficacy | 150 lm/W [2)] |
| Color temperature | 3000 K / 4000 K |
| Light color (designation) | Warm White / 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 ° |

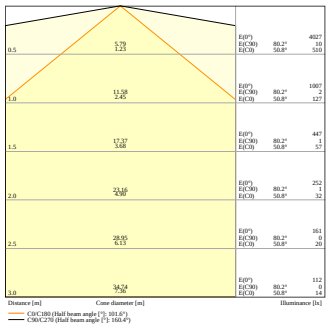
1) 3780lm / 3290lm / 2800lm / 2310lm @3000K

2) 140 lm/W @3000K

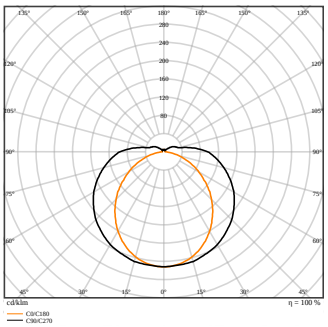

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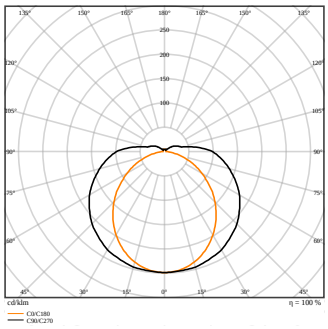
LN UO P 1200 27W 3000K CPS



LN UO P 1200 27W 4000K CPS



LN UO P 1200 27W 3000K CPS

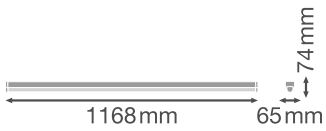


LN UO P 1200 27W 4000K CPS

## Dimensions & Weight

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


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# LN UO P 1200 27W CPS WT

## 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 | 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 |
| Mechanically adjustable | No |
| With light source | Yes |
| Replaceable light source | No |

## Lifespan

| | |
|---|---|
| Lifespan L70/B50 at 25 °C | 88000 h [1)] |


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| | |
|---|---|
| Lifespan L80/B10 at 25 °C | 70000 h [1)] |
| Lifespan L80/B50 at 25 °C | 70000 h |
| Lifespan L90/B10 at 25 °C | 30000 h [1)] |
| Number of switching cycles | 50000 |

1) 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 |
| EPD | LEDV-00055-V01.01-EN |
| Replaceable light source (EPREL) | Not replaceable |

## Additional product data

| | |
|---|---|
| Added function | MULTI LUMEN / MULTI COLOR |

## 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 |
|---|---|---|
| PDF | User instruction / safety instructions | LINEAR ULTRA OUTPUT GEN2 |
| PDF | Legal information | Light Source Insert LINEAR ULTRA OUTPUT |
| PDF | Legal information | Informationstext 18 Abs 4 ElektroG |
| PDF | Legal information | Safety Insert G11205497 |
| PDF | Legal information | Legal Insert G11120689 |
| PDF | Declarations of conformity | LN UO |


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| | Documents and certificates | Document name |
|---|---|---|
| PDF | EPD | ENVIRONMENTAL PRODUCT DECLARATION LINEAR ULTRA OUTPUT GEN 2 |

| | Photometric and lighting design files | Document name |
|---|---|---|
| IES | IES file (IES) | LN UO P 1200 27W 3000K CPS |
| IES | IES file (IES) | LN UO P 1200 27W 4000K CPS |
| LDT | LDT file (Eulumdat) | LN UO P 1200 27W 3000K CPS |
| LDT | LDT file (Eulumdat) | LN UO P 1200 27W 4000K CPS |
| ULD | ULD file (DIALux) | LN UO P 1200 27W CPS WT |
| ROLF | ROLF file (RELUX) | LN UO P 1200 27W CPS WT |
| | UGR file (UGR table) | LN UO P 1200 27W 3000K CPS |
| | 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 |
|---|---|---|
| RFA | BIM Revit 3D | Linear Ultra Output G2 |
| STEP | CAD STEP 3D | LN UO8 G2 1200 |


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| | Tender texts | Document name |
|---|---|---|
| | Tender documents | LINEAR ULTRA OUTPUT GEN 2 P 1200 27W CPS WT-EN |

## LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4099854296192 | Folding box<br>1 | 76 mm x 1,176 mm x 84 mm | 1285.00 g | 7.51 $dm^3$ |
| 4099854296208 | Shipping box<br>6 | 1,189 mm x 245 mm x 192 mm | 8365.00 g | 55.93 $dm^3$ |

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.

## References / Links

– For Guarantee see www.ledvance.com/guarantee

## DISCLAIMER

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