

# PRODUCT DATASHEET

## LN UO EM 1200 33 W 3000 K

LINEAR ULTRA OUTPUT EMERGENCY GEN 1 | Surface luminaire with high luminous flux and integrated emergency lighting function



### Areas of application

- Emergency illumination of escape routes
- Antipanic lighting
- Buildings requiring up to 3 h emergency light operation
- Direct replacement for luminaires with fluorescent lamps
- Indoor applications
- Industrial and commercial halls
- Public areas
- Corridors, stairwells, basements

PERFOR-  
MANCE  
CLASS

### Product benefits

- Seamless integration of luminaires with emergency lighting function into general lighting
- Easy wiring thanks to included prewired driver and battery for Emergency lighting function
- Simple testing of luminaires with emergency lighting function thanks to integrated automatic test function
- Convenient visualization of results of automatic test with an included control LED
- Operation of integrated emergency lighting function with long life LiFePO4 battery with 3h battery discharge time
- High luminous efficacy in normal operation
- Replacement of conventional T8 luminaires with up to 7100 lm
- Energy savings up to 60 % (compared to luminaires that use fluorescent lamps)
- Robust structure with IK08
- 3 years guarantee



## Product features

- Certified according to European norms (EN 60598-1:2015; EN 60598-2-22:2014)
- Luminaire suited for normal lighting and emergency lighting
- Self-contained luminaires
- Emergency lighting function: battery discharge time of 3 h
- Function test of emergency lighting: automatic (AT)
- Battery technology: LiFePO<sub>4</sub>
- Very high luminous efficacy: up to 125 lm/W
- Robust metal housing and PC diffuser
- Wiring at back side of luminaire
- Through wiring possible

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**TECHNICAL DATA****Electrical data**

|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 33.00 W               |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 50...60 Hz            |
| Nominal current                                             | 150 mA                |
| Inrush current                                              | 20 A                  |
| Inrush current time $T_{h50}$                               | 100 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 41                    |
| Max. number of luminaires per miniature circuit breaker C10 | 33                    |
| Max. number of luminaires per miniature circuit breaker C16 | 53                    |
| Power factor $\lambda$                                      | > 0.90                |
| Total harmonic distortion                                   | $\leq$ 20 %           |
| Protection class                                            | I                     |
| Operating mode                                              | Integrated LED driver |

**Photometrical data**

|                                              |                           |
|----------------------------------------------|---------------------------|
| Luminous flux                                | 3700 lm                   |
| Luminous efficacy                            | 110 lm/W                  |
| Color temperature                            | 3000 K                    |
| Light color (designation)                    | Warm White                |
| Color rendering index Ra                     | $\geq$ 80                 |
| Standard deviation of color matching         | $\leq$ 5 sdc <sub>m</sub> |
| Photobiological safety group acc. to EN62778 | RG0                       |
| Beam angle                                   | 120 °                     |



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Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1168.00 mm |
| Width          | 62.00 mm   |
| Height         | 74.00 mm   |
| Product weight | 1410.00 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              | 0...+35 °C         |
| Temperature range at storage           | 0...+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             |
| With light source                      | Yes                |
| Replaceable light source               | No                 |

### Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 50000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 40000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 40000 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)

### BATTERY

|                             |          |
|-----------------------------|----------|
| Type of Battery             | LiFePO4  |
| Battery size [GMS]          | Others   |
| Nominal voltage of battery  | 3.2 V    |
| Nominal capacity of battery | 4500 mAh |
| Battery charging time       | < 24 h   |

### Emergency lighting

|                                   |                                             |
|-----------------------------------|---------------------------------------------|
| Area of emergency application     | Anti-panic lighting / Escape route lighting |
| Type of emergency light operation | Maintained / Non-maintained                 |
| Type of emergency operation test  | Automatic                                   |

|                                           |        |
|-------------------------------------------|--------|
| Wattage in maintained operation mode      | 33 W   |
| Wattage in emergency operation mode       | 3,0 W  |
| Luminous flux in emergency operation mode | 370 lm |
| Battery life in emergency operation mode  | 3 h    |
| Integrated test switch                    | No     |

### 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

### DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                      |
|------------------------------------------------------------------------------------|----------------------------------------|------------------------------------|
|  | User instruction / safety instructions | UI_Linear Ultra Output Emergency   |
|  | Legal information                      | LS Insert Linear Ultra Output EM   |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG |
|  | Declarations of conformity             | LN UO EM                           |
|  | Declarations of conformity UKCA        | LN UO 1200                         |
| Photometric and lighting design files                                              |                                        | Document name                      |
|  | IES file (IES)                         | LN UO 1200 33W3000K EM             |
|  | LDT file (Eulumdat)                    | LN UO 1200 33W3000K EM             |
|  | ULD file (DIALux)                      | LN UO 1200 33W-3000K               |

| Photometric and lighting design files                                            |                                     | Document name                                     |
|----------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------|
|  | ROLF file (RELUX)                   | LN UO 1200 33W-3000K                              |
|  | UGR file (UGR table)                | LN UO 1200 33W3000K EM                            |
|  | Light distribution curve type cone  | LN UO 1200 33W3000K EM                            |
|  | Light distribution curve type polar | LN UO 1200 33W3000K EM                            |
| CAD/BIM files                                                                    |                                     | Document name                                     |
|  | BIM Revit 3D                        | Linear Ultra Output                               |
|  | CAD STEP 3D                         | LN UO 1200                                        |
| Tender texts                                                                     |                                     | Document name                                     |
|  | Tender documents                    | LINEAR ULTRA OUTPUT EMERGENCY 1200 33 W 3000 K-EN |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075515246 | Folding box<br>1             | 69 mm x 1,174 mm x 77 mm             | 1495.00 g    | 6.24 dm <sup>3</sup>  |
| 4058075515253 | Shipping box<br>6            | 1,184 mm x 225 mm x 170 mm           | 9625.00 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)

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