

# PRODUCT DATASHEET

## LN UO EL 1500 P 48W ML 83040 WT

LINEAR ULTRA OUTPUT EMERGENCY GEN 2 | 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

- Highly versatile due to selectable CCT and power steps (Multi Color / Multi Lumen)
- 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 7200 lm
- Energy savings up to 70 % (compared to luminaires that use fluorescent lamps)
- Robust structure with IK08



## Product features

- Certified according to European norms (EN 60598-1:2020; EN 60598-2-22:2021)
- Luminaire suitable 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: LiFePO4
- Very high luminous efficacy: up to 150 lm/W
- Robust metal housing and PC diffuser
- Wiring at back side of luminaire
- Through wiring possible

## TECHNICAL DATA

### Electrical data

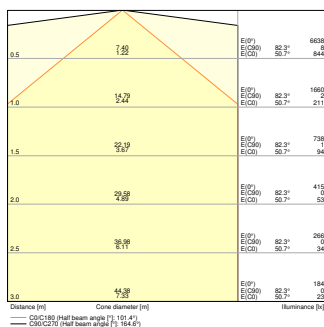
|                                                             |                           |
|-------------------------------------------------------------|---------------------------|
| Nominal wattage                                             | 48 W / 40 W / 32 W / 24 W |
| Nominal voltage                                             | 220...240 V               |
| Mains frequency                                             | 50...60 Hz                |
| Nominal current                                             | 228/196/166/135 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                                | 7200 lm / 6000 lm / 4800 lm / 3600 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 sdcn                                            |
| 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

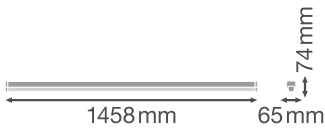
2) 140 lm/W @3000K

[illegible]

LN UO EL 1500 P 48W 3000K CPS  
WT LEDV

## Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1458.00 mm |
| Width          | 65.00 mm   |
| Height         | 74.00 mm   |
| Product weight | 1660.00 g  |



LN UO P 1500 48W 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 | 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 |
| 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                |
| Replaceable light source               | No                 |

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               |
| 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)

## BATTERY

|                             |          |
|-----------------------------|----------|
| Type of Battery             | LiFePO4  |
| Battery size [GMS]          | Others   |
| Nominal voltage of battery  | 3.2 V    |
| Nominal capacity of battery | 6000 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      | 48 W                                        |
| Wattage in emergency operation mode       | 3,0 W                                       |
| Luminous flux in emergency operation mode | 450 lm                                      |
| Battery life in emergency operation mode  | 3 h                                         |
| Integrated test switch                    | No                                          |

## Certificates & Standards

|                                                      |                      |
|------------------------------------------------------|----------------------|
| Standards                                            | CE / CB / 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 | MULTI SELECT |
|----------------|--------------|

## 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 | LN UO EL                                  |
|    | Legal information                      | Informationstext 18 Abs 4 ElektroG        |
|    | Legal information                      | LISO Insert LINEAR ULTRA OUTPUT EMERGENCY |
|    | Legal information                      | Safety Insert G11205497                   |
|    | Legal information                      | LN OU                                     |
|   | Declarations of conformity             | LN UO EL                                  |
|  | Declarations of conformity UKCA        | LN UO EL                                  |
| Photometric and lighting design files                                              |                                        | Document name                             |
|  | IES file (IES)                         | LN UO EL 1500 P 48W 3000K CPS WT LEDV     |
|  | IES file (IES)                         | LN UO EL 1500 P 48W 4000K CPS WT LEDV     |
|  | LDT file (Eulumdat)                    | LN UO EL 1500 P 48W 3000K CPS WT LEDV     |
|  | LDT file (Eulumdat)                    | LN UO EL 1500 P 48W 4000K CPS WT LEDV     |
|  | ULD file (DIALux)                      | LN UO EL 1500 P 48W CPS WT                |
|  | ROLF file (RELUX)                      | LN UO EL 1500 P 48W CPS WT                |
|  | UGR file (UGR table)                   | LN UO EL 1500 P 48W 3000K CPS WT LEDV     |

| Photometric and lighting design files                                             |                                     | Document name                                               |
|-----------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------|
|  | UGR file (UGR table)                | LN UO EL 1500 P 48W 4000K CPS WT LEDV                       |
|   | Light distribution curve type cone  | LN UO EL 1500 P 48W 3000K CPS WT LEDV                       |
|   | Light distribution curve type cone  | LN UO EL 1500 P 48W 4000K CPS WT LEDV                       |
|   | Light distribution curve type polar | LN UO EL 1500 P 48W 3000K CPS WT LEDV                       |
|   | Light distribution curve type polar | LN UO EL 1500 P 48W 4000K CPS WT LEDV                       |
| CAD/BIM files                                                                     |                                     | Document name                                               |
|   | BIM Revit 3D                        | Linear Ultra Output EL                                      |
|   | CAD STEP 3D                         | LN UO G2 1500                                               |
| Tender texts                                                                      |                                     | Document name                                               |
|   | Tender documents                    | LINEAR ULTRA OUTPUT EMERGENCY GEN 2 EL 1500 P 48W CPS WT-en |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075850477 | Folding box<br>1             | 69 mm x 1,464 mm x 77 mm             | 1760.00 g    | 7.78 dm <sup>3</sup>  |
| 4058075850484 | Shipping box<br>6            | 1,474 mm x 225 mm x 170 mm           | 11310.00 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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