

# PRODUCT DATASHEET

## LN INDV D 1500 25 W 4000 K EM

LINEAR IndiviLED® DIRECT EMERGENCY GEN 1 | Surface mounted luminaire for single luminaire or light line application with emergency lighting



### Areas of application

- Direct replacement for luminaires with fluorescent lamps
- Offices, schools
- General indoor illumination
- Corridors, entrance areas
- Seamless linear lighting
- Shop lighting

PERFORMANCE  
CLASS

### Product benefits

- Homogenous light distribution and reduced glare thanks to the IndiviLED® optics
- Emergency lighting according to IEC 60598-2-22 with emergency lighting driver and battery
- Low flicker light thanks to special electronic control gear
- Multiple mounting options
- Energy savings of up to 50 % compared to T5 batten luminaires
- Further variants additionally available with DALI ECG or through wiring
- Robust structure with IK06

### Product features

- Each LED with individual lens and reflector for UGR < 16 and homogenous light distribution



- Conversion kit for emergency lighting according to IEC 60598-2-22 (driver and battery for 3 h emergency lighting operation) included
- Easy maintenance due to automatic self test function for emergency lighting according to IEC 60598-2-22
- Pendant mounting with suspension kit
- Linkable into seamless light line with line connection adapter (surface or pendant mounting)
- Available with length of 1200 or 1500 mm
- Luminous flux up to 5700 lm
- Luminous efficacy: up to 125 lm/W
- Initial color consistency: 3 SDCM

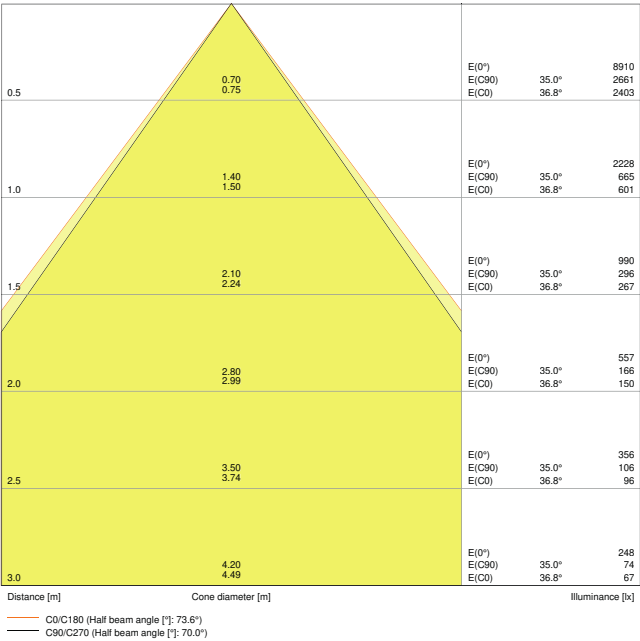
## TECHNICAL DATA

## Electrical data

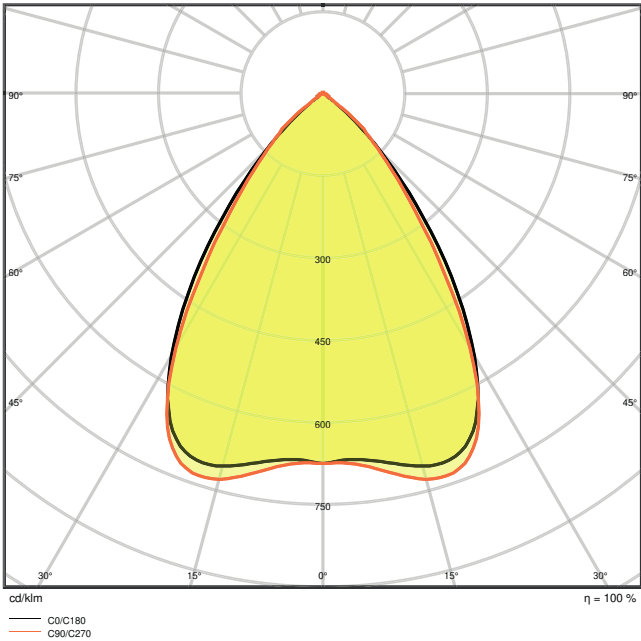
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 25.00 W               |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 50...60 Hz            |
| Nominal current                                             | 140 mA                |
| Inrush current                                              | 20 A                  |
| Inrush current time $T_{h50}$                               | 100 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 50                    |
| Max. number of luminaires per miniature circuit breaker C10 | 40                    |
| Max. number of luminaires per miniature circuit breaker C16 | 64                    |
| Power factor $\lambda$                                      | > 0.90                |
| Total harmonic distortion                                   | < 18 %                |
| Protection class                                            | I                     |
| Operating mode                                              | Integrated LED driver |

## Photometrical data

|                                              |            |
|----------------------------------------------|------------|
| Luminous flux                                | 3300 lm    |
| Luminous efficacy                            | 120 lm/W   |
| Color temperature                            | 4000 K     |
| Light color (designation)                    | Cool White |
| Color rendering index Ra                     | $\geq 80$  |
| Standard deviation of color matching         | 3 sdcm     |
| Luminous intensity                           | -          |
| Low flicker                                  | Yes        |
| Flickering metric (Pst LM)                   | -          |
| Stroboscope effect metric (SVM)              | -          |
| Photobiological safety group acc. to EN62778 | RG1        |
| Photobiological safety group acc. to EN62471 | RG0        |
| Beam angle                                   | 70 °       |
| UGR                                          | < 16       |



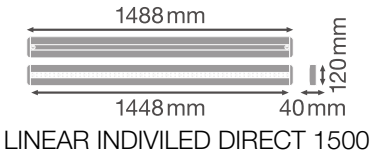
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Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1488.00 mm |
| Width          | 120.00 mm  |
| Height         | 40.00 mm   |
| Product weight | 3100.00 g  |



Materials & Colors

|                          |          |
|--------------------------|----------|
| Product color            | White    |
| Housing color            | White    |
| RAL Color (most similar) | RAL 9003 |
| Body material            | Aluminum |
| Cover material           | Aluminum |

|                                            |                    |
|--------------------------------------------|--------------------|
| 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              | 5...+35 °C                                  |
| Temperature range at storage           | 5...+35 °C                                  |
| Type of connection                     | Screw terminal, 2-POLE (N, L. L switchable) |
| Type of protection                     | IP20                                        |
| Protection class IK (shock resistance) | IK06                                        |
| Dimmable                               | No                                          |
| Mounting type                          | Suspended/Surface                           |
| Mounting location                      | Ceiling                                     |
| Application environment                | Indoor                                      |
| With light source                      | Yes                                         |
| Replaceable light source               | No                                          |

### Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 60000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 50000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 50000 h               |
| Lifespan L90/B10 at 25 °C  | 35000 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 | 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       | 25 W    |
| Wattage in emergency operation mode        | 3,0 W   |
| Luminous flux in maintained operation mode | 3300 lm |
| Luminous flux in emergency operation mode  | 410 lm  |
| Battery life in emergency operation mode   | 3 h     |
| Integrated test switch                     | No      |

### Certificates & Standards

|                                                      |                         |
|------------------------------------------------------|-------------------------|
| Standards                                            | CE / CB / TÜV SÜD / EAC |
| Luminaire with limited surface temperature, "D sign" | No                      |
| Ball shot safe                                       | No                      |
| Replaceable light source (EPREL)                     | Not replaceable         |

### EQUIPMENT / ACCESSORIES

- Ceiling connection box available
- Suspension kit available
- Line connection adapter available
- Through-wiring cable kit available

### Safety advice

- All electrical connections must be made by a qualified person.
- If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by a qualified person in order to avoid a hazard.
- 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 | UI_Linear IndiviLED Emergency      |
|  | On-Pack-Info                           | Legal Insert Linear                |
|  | Legal information                      | LSI LINEAR IndiviLED EMERGENCY     |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG |

| Documents and certificates                                                          |                                     | Document name               |
|-------------------------------------------------------------------------------------|-------------------------------------|-----------------------------|
|    | Declarations of conformity          | LN INDV EM                  |
| Photometric and lighting design files                                               |                                     | Document name               |
|    | IES file (IES)                      | LN INDV D 1500 25W 4000K EM |
|    | LDT file (Eulumdat)                 | LN INDV D 1500 25W 4000K EM |
|    | ULD file (DIALux)                   | LN INDV D 1500 25W-4000K    |
|    | ROLF file (RELUX)                   | LN INDV D 1500              |
|    | UGR file (UGR table)                | LN INDV D 1500 25W 4000K EM |
|    | Light distribution curve type cone  | LN INDV D 1500 25W 4000K EM |
|    | Light distribution curve type polar | LN INDV D 1500 25W 4000K EM |
| CAD/BIM files                                                                       |                                     | Document name               |
|  | BIM Revit 3D                        | Linear IndiviLED G1         |
|  | CAD STEP 3D                         | LN INDV 1500                |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4058075109582 | Folding box<br>1             | 132 mm x 1,624 mm x 52 mm            | 3442.00 g    | 11.15 dm³ |
| 4058075109599 | Shipping box<br>4            | 1,641 mm x 207 mm x 169 mm           | 16450.00 g   | 57.41 dm³ |

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.

DISCLAIMER

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