

# PRODUCT DATASHEET

## LN INV D 1200 P 40W 930 PS WT

LINEAR INDIVILED DIRECT 1200 PS | Surface mounted luminaire for single or light line office application with CRI90 and power select (PS) feature, 1200 mm



### Areas of application

- Direct replacement for luminaires with fluorescent lamps
- Offices, education, public buildings
- Single and continuous line configuration
- Direct lighting

### Product benefits

- Easy upgradeability of light source and driver (EVERLOOP design)
- Homogenous light distribution and reduced glare ( $UGR \leq 19$ ) thanks to IndiviLED® optics
- High performance with CRI90 and up to 130 lm/W
- Highly versatile due to selectable power steps (Power Select - PS) on the driver
- Symmetric and asymmetric light distribution for various application areas
- High color consistency with SDCM 3
- Easy installation
- Low flicker light thanks to special electronic control gear
- Multiple mounting options thanks to different accessories
- 5 years guarantee

### Product features

- Minimalistic LEDVANCE SCALE design in extruded aluminum housing
- Includes EVERLOOP: Convenient replacement of light source and LED driver



- Linkable into seamless light line with accessories (surface or pendant mounting)
- Pendant mounting with suspension kit (to be ordered separately)
- Glow Wire Test according to IEC 60695-2-12: 850 °C
- 5-pole terminal block, cable cross section up to 5 x 2.5 mm<sup>2</sup>
- Lifetime (L80/B10): 70,000 h (at 25 °C)

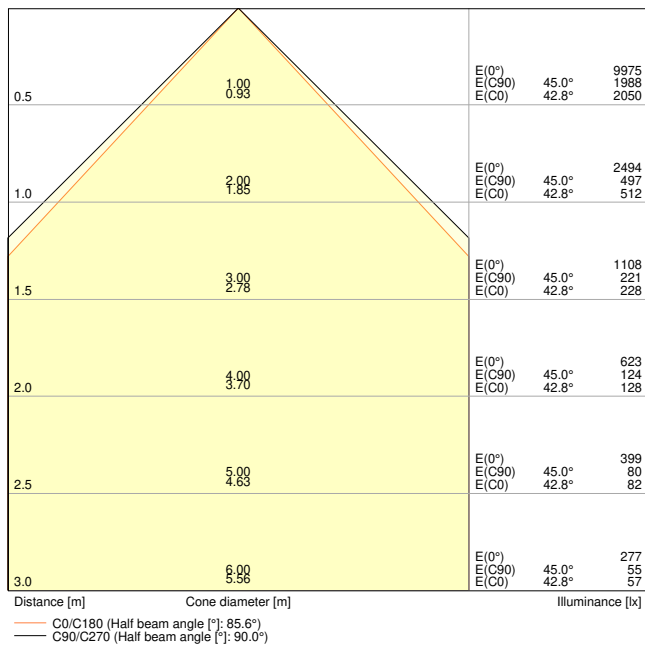
## TECHNICAL DATA

### Electrical data

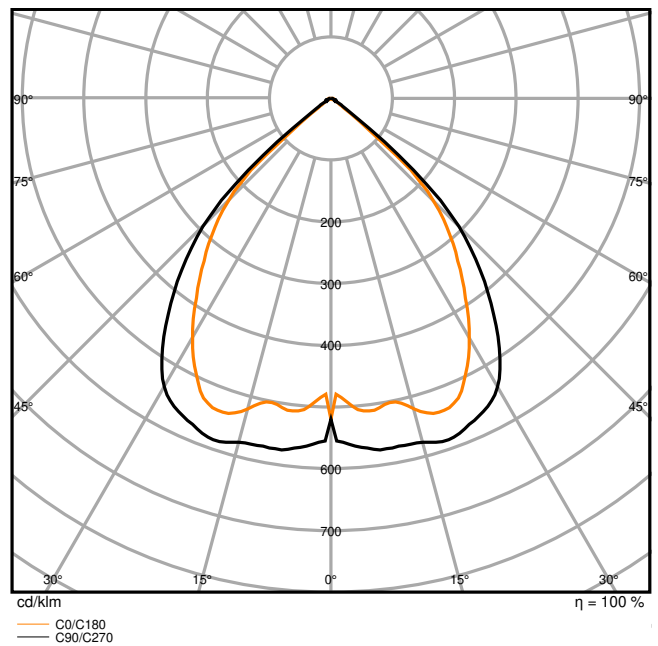
|   |                           |
|---|---------------------------|
| Nominal wattage   | 40 W / 36 W / 30 W / 25 W |
| Nominal voltage   | 220...240 V               |
| Mains frequency   | 50...60 Hz                |
| Nominal current   | 185...170...140...120 mA  |
| Inrush current  | 15 A                      |
| Inrush current time $T_{h50}$                               | 50 $\mu$ s                |
| Max. number of luminaires per miniature circuit breaker B16 | 50                        |
| Max. number of luminaires per miniature circuit breaker C10 | 36                        |
| Max. number of luminaires per miniature circuit breaker C16 | 58                        |
| Power factor $\lambda$                                      | $\geq 0.90$               |
| Total harmonic distortion                                   | $\leq 20$ %               |
| Protection class  | I                         |
| Operating mode  | Integrated LED driver     |

### Photometrical data

|  |   |
|--|---|
| Luminous flux                                | 4660 lm / 4270 lm / 3590 lm / 3060 lm     |
| Luminous efficacy                            | 120 lm/W / 122 lm/W / 123 lm/W / 126 lm/W |
| Color temperature                            | 3000 K                                    |
| Light color (designation)                    | Warm White                                |
| Color rendering index Ra                     | > 90                                      |
| Standard deviation of color matching         | 3 sdc <sub>m</sub>                        |
| Low flicker                                  | Yes                                       |
| Flickering metric (Pst LM)                   | $\leq 1$                                  |
| Stroboscope effect metric (SVM)              | $\leq 0.4$                                |
| Photobiological safety group acc. to EN62778 | RG0                                       |
| Photobiological safety group acc. to EN62471 | RG0                                       |
| Beam angle                                   | 90 °                                      |
| UGR  | < 19                                      |



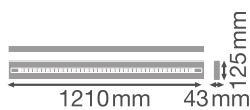
LN INV D 1200 P 40W 930 PS WT 800mA



LN INV D 1200 P 40W 930 PS WT 800mA

Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1210.00 mm |
| Width          | 125.00 mm  |
| Height         | 43.00 mm   |
| Product weight | 3200.00 g  |



LN INV 1200 P

Materials & Colors

|  |                               |
|--|-------------------------------|
| Product color                              | White                         |
| Housing color                              | White                         |
| Body material                              | Aluminum                      |
| Cover material                             | Polymethylmethacrylate (PMMA) |
| Light emitting surface material            | Polymethylmethacrylate (PMMA) |
| Glow Wire Test according to IEC 60695-2-12 | 850 °C                        |
| Mercury content                            | 0.0 mg                        |

### Application & Mounting

|  |   |
|--|---|
| Ambient temperature range              | -20...+50 °C                                    |
| Temperature range at storage           | -20...+80 °C                                    |
| Type of connection                     | Screwless terminal, 5-Pole (L, N, PE, DA+, DA-) |
| Type of protection                     | IP20  |
| Protection class IK (shock resistance) | IK06  |
| Dimmable                               | No  |
| Mounting type                          | Suspended/Surface                               |
| Mounting location                      | Ceiling   |
| Application environment                | Indoor  |
| Adjustable                             | No  |
| LED module replaceable                 | By the end consumer                             |
| With light source                      | Yes   |

### Lifespan

|                            |                        |
|----------------------------|------------------------|
| Lifespan L70/B50 at 25 °C  | 100000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 70000 h <sup>1)</sup>  |
| Lifespan L90/B10 at 25 °C  | 35000 h                |
| Number of switching cycles | 25000                  |

<sup>1)</sup> t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

### Control gear

|                             |                                       |
|-----------------------------|---------------------------------------|
| Output current              | 800 mA                                |
| ECG - Output ripple current | ≤ 5 %                                 |
| Recommended control gear    | OSRAM type IT FIT 40/220-240/800 CS L |

### Certificates & Standards

|           |                                       |
|-----------|---------------------------------------|
| Standards | CE / CB / ENEC / TÜV SÜD / UKCA / EAC |
|-----------|---------------------------------------|

|  |    |
|--|----|
| Luminaire with limited surface temperature, "D sign" | No |
| Ball shot safe                                       | No |





**Additional product data**








|                       |                         |
|-----------------------|-------------------------|
| Number of illuminants | 1                       |
| Added function        | EVERLOOP / MULTI SELECT |


**EQUIPMENT / ACCESSORIES**

- Suspension kit available for pendant luminaire version (to be ordered separately)
- Inline, corner and infill connectors available as separate accessory
- Through-wiring cable kit available


**DOWNLOAD DATA**

| Documents and certificates   |                             | Document name    |
|--|-----------------------------|------------------|
|    | User Instruction            | LN INV           |
|   | Addon Technical Information | LSI LN INDIVILED |
|  | Legal information           | LN INV PS        |
|  | Declarations of conformity  | LN INV           |

| Photometric and lighting design files  |                      | Document name                       |
|--|----------------------|-------------------------------------|
|  | IES file (IES)       | LN INV D 1200 P 40W 930 PS WT 800mA |
|  | LDT file (Eulumdat)  | LN INV D 1200 P 40W 930 PS WT 800mA |
|  | ULD file (DIALux)    | LN INV D 1200 P 40W 930 PS WT       |
|  | ROLF file (RELUX)    | LN INV D 1200 P 40W 930 PS WT       |
|  | UGR file (UGR table) | LN INV D 1200 P 40W 930 PS WT 800mA |
|  | LDC typ cone         | LN INV D 1200 P 40W 930 PS WT 800mA |
|  | LDC typ polar        | LN INV D 1200 P 40W 930 PS WT 800mA |

| CAD/BIM files  |             | Document name    |
|--|-------------|------------------|
|  | CAD_STEP_3D | LN INV D 1200 G2 |

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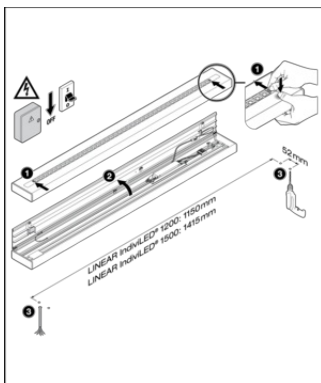
| Tender texts   |                  | Document name   |
|--|------------------|---|
|  | Tender documents | LINEAR INDIVILED DIRECT 1200 PS 1200 P 40W 930 PS WT-EN |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854135316 | Folding box<br>1             | 178 mm x 1,263 mm x 103 mm           | 3800.00 g    | 23.16 dm <sup>3</sup> |
| 4099854135323 | Shipping box<br>2            | 1,277 mm x 187 mm x 189 mm           | 9000.00 g    | 45.13 dm <sup>3</sup> |

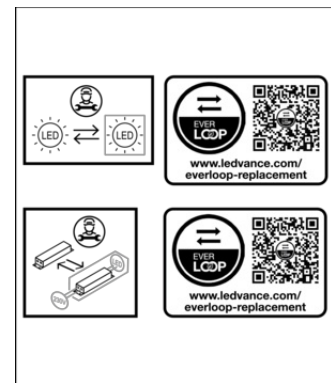
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

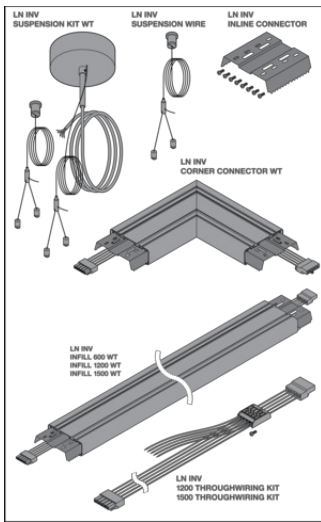
ADDITIONAL CATALOG INFORMATION



dip switch Preset: ON/ON

| LINEAR IndivILED <sup>®</sup> DIRECT | DRIVER  |       | chip number |     |    |        |     |
|--------------------------------------|---------|-------|-------------|-----|----|--------|-----|
|                                      | Pin 1   | Pin 2 | Pinset      | MA  | W  | Ma / W |     |
| LN INV D 1200 P 40W 930 PS WT        | CSRAM   | OFF   | OFF         | 500 | 25 | 3750   | 120 |
|                                      | SPD_SMD | ON    | ON          | 400 | 20 | 2000   | 100 |
|                                      | MS-CCL  | ON    | ON          | 700 | 35 | 4000   | 120 |
| LN INV D 1200 P 40W 940 PS WT        | CSRAM   | OFF   | OFF         | 500 | 25 | 3750   | 120 |
|                                      | SPD_SMD | ON    | ON          | 400 | 20 | 2000   | 100 |
|                                      | MS-CCL  | ON    | ON          | 700 | 35 | 4000   | 120 |
| LN INV D 1200 P 52W 930 PS WT        | CSRAM   | OFF   | OFF         | 500 | 25 | 3750   | 120 |
|                                      | SPD_SMD | ON    | ON          | 400 | 20 | 2000   | 100 |
|                                      | MS-CCL  | ON    | ON          | 700 | 35 | 4000   | 120 |
| LN INV D 1200 P 52W 940 PS WT        | CSRAM   | OFF   | OFF         | 500 | 25 | 3750   | 120 |
|                                      | SPD_SMD | ON    | ON          | 400 | 20 | 2000   | 100 |
|                                      | MS-CCL  | ON    | ON          | 700 | 35 | 4000   | 120 |





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.