

# PRODUCT DATASHEET

## LN INV D 1200 P 40W 930 DAVR SN BK

LINEAR INDIVILED DIRECT 1200 DALI SENSOR | Surface mounted luminaire for single or light line office application with CRI90 and DALI sensor, 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 131 lm/W
- Highly versatile due to selectable power steps (Power Select - PS) on the driver
- Symmetric light distribution for various application areas
- Extended services such as energy monitoring and remote maintenance possible with DALI versions
- High color consistency with SDCM 3
- Easy installation
- Low flicker light thanks to special electronic control gear
- Suitable for battery emergency installations acc. to EN 60598-2-22
- Multiple mounting options thanks to different accessories

### Product features

- Minimalistic LEDVANCE SCALE design in extruded aluminum housing, available in white and black color



- Includes EVERLOOP: Convenient replacement of light source and LED driver
- PIR-Sensor with leader-follower function
- Combined daylight and motion detection
- Individual adjustment of the parameters with configuration software or remote control
- 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)

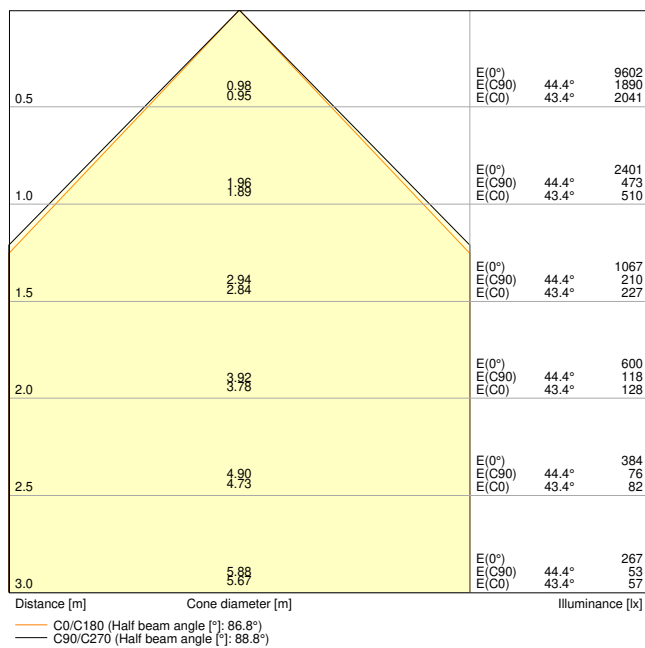
## TECHNICAL DATA

### Electrical data

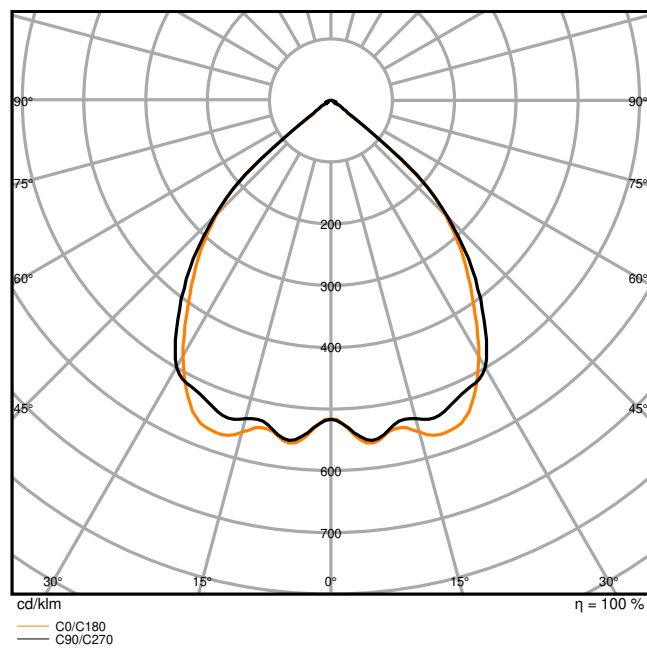
|                                                             |                           |
|-------------------------------------------------------------|---------------------------|
| Nominal wattage                                             | 40 W / 34 W / 30 W / 25 W |
| Nominal voltage                                             | 220...240 V               |
| Mains frequency                                             | 0/50/60 Hz                |
| Nominal current                                             | 177...160...140...120 mA  |
| Inrush current                                              | 9.92 A                    |
| Inrush current time $T_{h50}$                               | 360 $\mu$ s               |
| Max. number of luminaires per miniature circuit breaker B16 | 20                        |
| Max. number of luminaires per miniature circuit breaker C10 | 20                        |
| Max. number of luminaires per miniature circuit breaker C16 | 32                        |
| Power factor $\lambda$                                      | > 0.90                    |
| Total harmonic distortion                                   | $\leq$ 20 %               |
| Protection class                                            | I                         |
| Operating mode                                              | Integrated LED driver     |
| Dimming interface                                           | DALI-2 / IoT              |

### Photometrical data

|                                              |                                       |
|----------------------------------------------|---------------------------------------|
| Luminous flux                                | 4650 lm / 4150 lm / 3600 lm / 3000 lm |
| Luminous efficacy                            | 116 lm/W / 122 lm/W / 120 lm/W        |
| Color temperature                            | 3000 K                                |
| Light color (designation)                    | Warm White                            |
| Color rendering index Ra                     | $\geq$ 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                                  |



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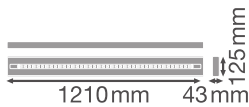
LN INV D 1200 P 40W 930 DAVR SN BK

## Adjustable attributes

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|-----------------|-------------------|---------------|-------------------|
| 40 W            | 3000 K            | 4650 lm       | 116 lm/W          |
| 34 W            | 3000 K            | 4150 lm       | 122 lm/W          |
| 30 W            | 3000 K            | 3600 lm       | 120 lm/W          |
| 25 W            | 3000 K            | 3000 lm       | 120 lm/W          |

## Dimensions &amp; Weight

|                |            |
|----------------|------------|
| Length         | 1210.00 mm |
| Width          | 125.00 mm  |
| Height         | 43.00 mm   |
| Product weight | 3290.00 g  |



LN INV 1200 P

Materials & Colors

|                                            |                               |
|--------------------------------------------|-------------------------------|
| Product color                              | Black                         |
| Housing color                              | Black                         |
| 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                               | Yes                                                        |
| Type of dimming                        | DALI2                                                      |
| IoT ready                              | Support of DALI data type PART 251, 252, 253 <sup>1)</sup> |
| Mounting type                          | Suspended/Surface                                          |
| Mounting location                      | Ceiling                                                    |
| Application environment                | Indoor                                                     |
| Adjustable                             | No                                                         |
| With light source                      | Yes                                                        |
| Replaceable light source               | Yes                                                        |

1) Internet of Things. Supports data transfer via gateway to cloud-based monitoring platforms, such as LEDVANCE VIVARES Cloud

### Lifespan

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

1) 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              | 1400mA / 1300mA / 1200mA / 1100 mA       |
| ECG - Output ripple current | ≤ 5 %                                    |
| Recommended control gear    | OSRAM type OTI DALI 50/220-240/1A4 NFC L |

### Sensor

|                                  |                            |
|----------------------------------|----------------------------|
| Type of sensor                   | Motion / Light             |
| Sensor technology                | Passive infrared/Photocell |
| Sensor detection angle           | 80 °                       |
| Sensor controlled switching time | 10 s ... 30 min            |
| Detection range of motion sensor | 1.7 m ... 4 m              |

### Certificates & Standards

|                                                      |                                       |
|------------------------------------------------------|---------------------------------------|
| Standards                                            | CE / CB / ENEC / TÜV SÜD / UKCA / EAC |
| Luminaire with limited surface temperature, "D sign" | No                                    |
| Ball shot safe                                       | No                                    |
| Replaceable light source (EPREL)                     | By the end consumer                   |

### Additional product data

|                |                                     |
|----------------|-------------------------------------|
| Added function | EVERLOOP / Programmable Multi Lumen |
|----------------|-------------------------------------|

### Accessories Optional

| Product image                                                                       | Product name             | EAN           |
|-------------------------------------------------------------------------------------|--------------------------|---------------|
|  | LN INV SUSPENSION KIT BK | 4099854297069 |

| Product image                                                                      | Product name                  | EAN           |
|------------------------------------------------------------------------------------|-------------------------------|---------------|
|   | LN INV SUSPENSION WIRE        | 4099854323980 |
|    | LN INV 1200 THROUGHWIRING KIT | 4099854214820 |
|    | LN INV INLINE CONNECTOR       | 4099854215612 |
|    | LN INV CORNER CONNECTOR BK    | 4099854308079 |
|    | LN INV INFILL 600 BK          | 4099854297045 |
|  | LN INV INFILL 1200 BK         | 4099854297007 |
|  | LN INV INFILL 1500 BK         | 4099854297021 |

### 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 INV P DAVR SN |

| Documents and certificates                                                         |                                     | Document name                                                    |
|------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------------------------|
|    | Legal information                   | Legal Insert LN INV P DA                                         |
|    | Legal information                   | LSI LN INV DA                                                    |
|    | Declarations of conformity          | LN INV                                                           |
|    | Declarations of conformity UKCA     | LN INV                                                           |
|    | Certificates                        | LN INV                                                           |
| Photometric and lighting design files                                              |                                     | Document name                                                    |
|    | IES file (IES)                      | LN INV D 1200 P 40W 930 DAVR SN BK                               |
|    | LDT file (Eulumdat)                 | LN INV D 1200 P 40W 930 DAVR SN BK                               |
|   | ULD file (DIALux)                   | LN INV D 1200 P 40W 930 DAVR SN BK                               |
|  | ROLF file (RELUX)                   | LN INV D 1200 P 40W 930 DAVR SN BK                               |
|  | UGR file (UGR table)                | LN INV D 1200 P 40W 930 DAVR SN BK                               |
|  | Light distribution curve type cone  | LN INV D 1200 P 40W 930 DAVR SN BK                               |
|  | Light distribution curve type polar | LN INV D 1200 P 40W 930 DAVR SN BK                               |
| CAD/BIM files                                                                      |                                     | Document name                                                    |
|  | BIM Revit 3D                        | Linear Indiviled G2                                              |
|  | CAD STEP 3D                         | LN INV D 1200 G2                                                 |
| Tender texts                                                                       |                                     | Document name                                                    |
|  | Tender documents                    | LINEAR INDIVILED DIRECT 1200 DALI SENSOR P 40W 930 DAVR SN BK-EN |

## LOGISTICAL DATA

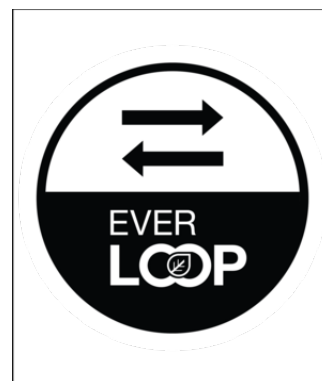
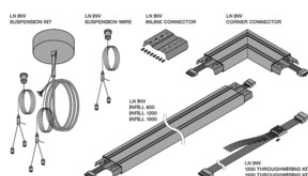


| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854371721 | Folding box<br>1             | 178 mm x 1,263 mm x 103 mm           | 3890.00 g    | 23.16 dm <sup>3</sup> |
| 4099854371738 | Shipping box<br>2            | 1,297 mm x 197 mm x 224 mm           | 9180.00 g    | 57.23 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

| LINEAR IndivLED® DIRECT DALI SN BK | DRIVER                                        | mA                       | W                    | lm                           | lm/W                     | °    |
|------------------------------------|-----------------------------------------------|--------------------------|----------------------|------------------------------|--------------------------|------|
| LN INV D 1200 P 40W 930 DAVR SN BK | OSRAM<br>OTI DALI SV<br>220-240V<br>1A4 NPL L | 500<br>400<br>300<br>200 | 25<br>20<br>15<br>10 | 3000<br>2400<br>1800<br>1200 | 120<br>120<br>120<br>120 | 180° |
| LN INV D 1200 P 40W 940 DAVR SN BK | OSRAM<br>OTI DALI SV<br>220-240V<br>1A4 NPL L | 500<br>400<br>300<br>200 | 25<br>20<br>15<br>10 | 2700<br>2160<br>1620<br>1080 | 108<br>108<br>108<br>108 | 180° |
| LN INV D 1500 P 52W 930 DAVR SN BK | OSRAM<br>OTI DALI SV<br>220-240V<br>1A4 NPL L | 600<br>480<br>360<br>240 | 30<br>24<br>18<br>12 | 3600<br>2880<br>2160<br>1440 | 120<br>120<br>120<br>120 | 180° |
| LN INV D 1500 P 52W 940 DAVR SN BK | OSRAM<br>OTI DALI SV<br>220-240V<br>1A4 NPL L | 600<br>480<br>360<br>240 | 30<br>24<br>18<br>12 | 3240<br>2592<br>1944<br>1296 | 108<br>108<br>108<br>108 | 180° |



## References / Links

– For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

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