

# PRODUCT DATASHEET

## LN INV DI 1200 P 54W 940 DAVR WT

LINEAR INDIVILED DIRECT/INDIRECT 1200 DALI | Pendant luminaire for single or light line office application with CRI90 and DALI-2 IoT technology, 1200 mm



### Areas of application

- Direct replacement for luminaires with fluorescent lamps
- Offices, education, public buildings
- Single and continuous line configuration
- Direct and indirect 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
- Pendant luminaires with direct light emission (70%) and indirect light emission (30%)
- High performance with CRI90 and up to 137 lm/W
- IoT-ready luminaire with DALI-2 driver, suitable for VIVARES and other Light Management Systems
- 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
- 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)
- Multi lumen function: programmable DALI-2 driver

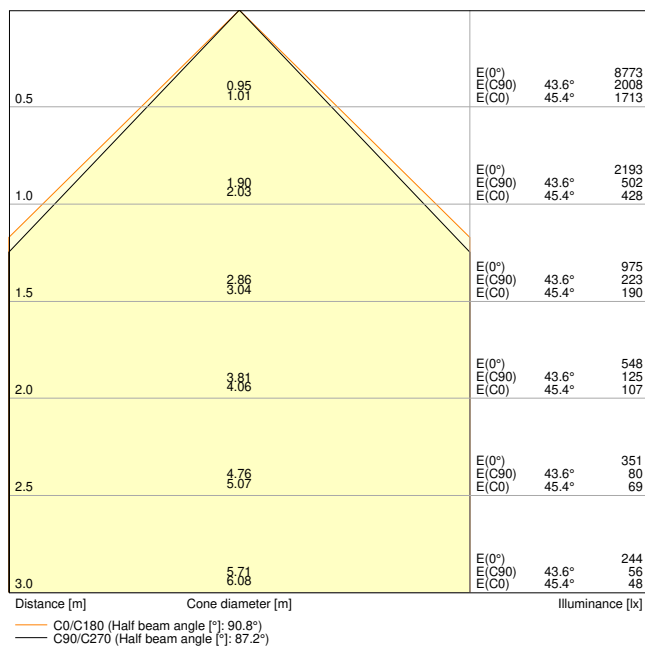
## TECHNICAL DATA

### Electrical data

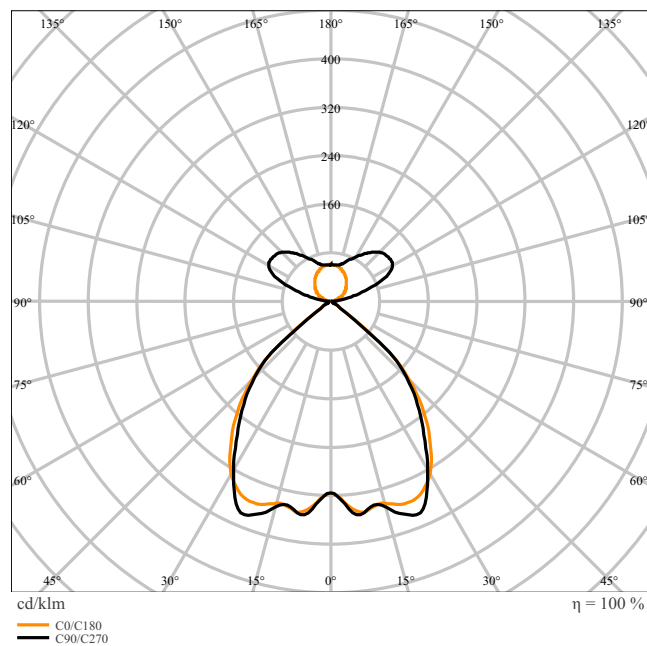
|                                                             |                           |
|-------------------------------------------------------------|---------------------------|
| Nominal wattage                                             | 54 W / 48 W / 43 W / 34 W |
| Nominal voltage                                             | 220...240 V               |
| Mains frequency                                             | 0/50/60 Hz                |
| Nominal current                                             | 233...205...195...160 mA  |
| Inrush current                                              | 25.2 A                    |
| Inrush current time $T_{h50}$                               | 40 $\mu$ s                |
| Max. number of luminaires per miniature circuit breaker B16 | 29                        |
| Max. number of luminaires per miniature circuit breaker C10 | 23                        |
| Max. number of luminaires per miniature circuit breaker C16 | 38                        |
| 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                                | 6950 lm / 6050 lm / 5600 lm / 4650 lm     |
| Luminous efficacy                            | 129 lm/W / 126 lm/W / 132 lm/W / 137 lm/W |
| Color temperature                            | 4000 K                                    |
| Light color (designation)                    | Cool 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 | RG1                                       |
| Photobiological safety group acc. to EN62471 | RG0                                       |
| Beam angle                                   | 90 ° + 130 °                              |
| UGR                                          | < 19                                      |
| 1                                            |                                           |



LN INV DI 1200 P 54W 940 DAVR WT 1100mA



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## Adjustable attributes

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|-----------------|-------------------|---------------|-------------------|
| 54 W            | 4000 K            | 6950 lm       | 129 lm/W          |
| 48 W            | 4000 K            | 6050 lm       | 126 lm/W          |
| 43 W            | 4000 K            | 5600 lm       | 132 lm/W          |
| 34 W            | 4000 K            | 4650 lm       | 137 lm/W          |

## Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1210.00 mm |
| Width          | 125.00 mm  |
| Height         | 43.00 mm   |
| Product weight | 3540.00 g  |



LN INV 1200 P

Materials & Colors

|                                            |                               |
|--------------------------------------------|-------------------------------|
| Product color                              | White                         |
| Housing color                              | White                         |
| RAL Color (most similar)                   | RAL 9003                      |
| 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                                                  |
| 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              | 1100mA / 950mA / 850mA / 700 mA          |
| ECG - Output ripple current | ≤ 5 %                                    |
| Recommended control gear    | OSRAM type OTI DALI 50/220-240/1A4 NFC L |

### Certificates & Standards

|                                                      |                                             |
|------------------------------------------------------|---------------------------------------------|
| Standards                                            | CE / CB / ENEC / TÜV SÜD / UKCA / EAC / EPD |
| Luminaire with limited surface temperature, "D sign" | No                                          |
| Ball shot safe                                       | No                                          |
| EPD                                                  | LEDV-00026-V01.01-EN                        |
| Replaceable light source (EPREL)                     | By the end consumer                         |

### Additional product data

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Number of illuminants | 2                                             |
| Added function        | EVERLOOP / VIVARES / Programmable Multi Lumen |

### Accessories Mandatory

| Product image                                                                       | Product name             | EAN           |
|-------------------------------------------------------------------------------------|--------------------------|---------------|
|  | LN INV SUSPENSION KIT WT | 4099854215537 |
|  | LN INV SUSPENSION WIRE   | 4099854323980 |

### Accessories Optional

| Product image                                                                      | Product name                  | EAN           |
|------------------------------------------------------------------------------------|-------------------------------|---------------|
|    | LN INV 1200 THROUGHWIRING KIT | 4099854214820 |
|    | LN INV INLINE CONNECTOR       | 4099854215612 |
|    | LN INV CORNER CONNECTOR WT    | 4099854308093 |
|    | LN INV INFILL 600 WT          | 4099854214882 |
|    | LN INV INFILL 1200 WT         | 4099854214868 |
|  | LN INV INFILL 1500 WT         | 4099854214844 |

## 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

## Upgrade and replacement components

| Components Light Source                                                            |                                     |               |
|------------------------------------------------------------------------------------|-------------------------------------|---------------|
| Product image                                                                      | Product name                        | EAN           |
|  | LISOEV 1074x29 50 40W 940 S90U19 GY | 4099854284809 |

| Product image                                                                    | Product name                   | EAN           |
|----------------------------------------------------------------------------------|--------------------------------|---------------|
|  | LISOEV 1200x31 23 18W 940 S130 | 4099854284960 |

## Components Driver

| Product image                                                                     | Product name                    | EAN           |
|-----------------------------------------------------------------------------------|---------------------------------|---------------|
|  | OTi DALI 50/220...240/1A4 NFC L | 4062172074988 |

## 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 D PS                        |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG |
|  | Legal information                      | Safety Insert G11205497            |
|  | Legal information                      | Legal Insert G11235610             |
|  | Legal information                      | LN INV D DI                        |
|  | Declarations of conformity             | LN INV                             |
|  | Declarations of conformity UKCA        | LN INV                             |
|  | EU Data Act                            | DALI LED Driver and Luminaires     |

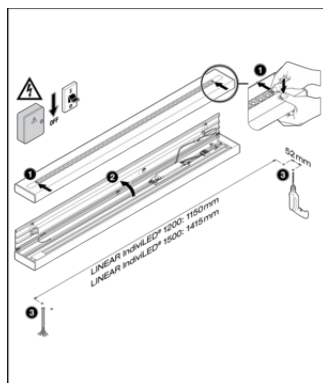
| Documents and certificates                                                          |                                     | Document name                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------|
|    | EPD                                 | EPD EN LINEAR INDIVILED DIRECT INDIRECT                             |
| Photometric and lighting design files                                               |                                     | Document name                                                       |
|    | IES file (IES)                      | LN INV DI 1200 P 54W 940 DAVR WT 1100mA                             |
|    | LDT file (Eulumdat)                 | LN INV DI 1200 P 54W 940 DAVR WT 1100mA                             |
|    | ULD file (DIALux)                   | LN INV DI 1200 P 54W 940 DAVR WT                                    |
|    | ROLF file (RELUX)                   | LN INV DI 1200 P 54W 940 DAVR WT                                    |
|    | UGR file (UGR table)                | LN INV DI 1200 P 54W 940 DAVR WT 1100mA                             |
|    | Light distribution curve type cone  | LN INV DI 1200 P 54W 940 DAVR WT 1100mA                             |
|    | Light distribution curve type polar | LN INV DI 1200 P 54W 940 DAVR WT 1100mA                             |
|    | Light distribution curve type polar | LN INV DI 1200 P 54W 940 DAVR WT                                    |
| CAD/BIM files                                                                       |                                     | Document name                                                       |
|  | BIM Revit 3D                        | Linear Indiviled G2                                                 |
|  | CAD STEP 3D                         | LN INV D I 1200 G2                                                  |
| Tender texts                                                                        |                                     | Document name                                                       |
|  | Tender documents                    | LINEAR INDIVILED DIRECTINDIRECT 1200 DALI 1200 P 54W 940 DAVR WT-EN |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4099854135576 | Folding box<br>1             | 178 mm x 1,263 mm x 103 mm           | 4140.00 g    | 23.16 dm³ |
| 4099854135583 | Shipping box<br>2            | 1,277 mm x 187 mm x 189 mm           | 9680.00 g    | 45.13 dm³ |

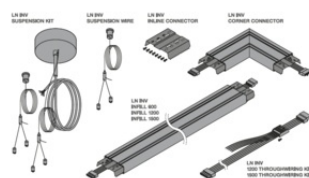
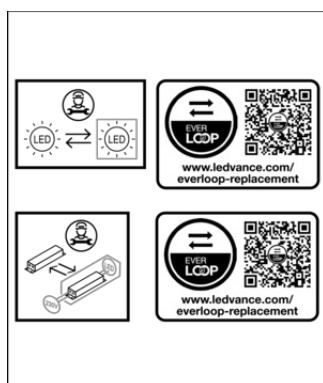
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

## ADDITIONAL CATALOG INFORMATION



| DRIVER                                    |  | LN INV CP 1500 P 5AW 50 GAUS WIT - Present 5AW |      | LN INV CP 1500 P 5BW 50 GAUS WIT - Present 5BW |      |            |      |
|-------------------------------------------|--|------------------------------------------------|------|------------------------------------------------|------|------------|------|
|                                           |  |                                                |      |                                                |      |            |      |
| LINEAR InductED <sup>®</sup> DRIVING DAIS |  | DIRECT                                         |      | INDIRECT                                       |      | Total      |      |
|                                           |  | W                                              | D    | W                                              | D    | W          | D    |
| LN INV CP 1500 P 5AW 50 GAUS WIT          |  | 0.00                                           | 0.00 | 0.00                                           | 0.00 | 0.00       | 0.00 |
|                                           |  | COILS                                          |      | COILS                                          |      | COILS      |      |
|                                           |  | OPT-DAL 50                                     |      | OPT-DAL 50                                     |      | OPT-DAL 50 |      |
|                                           |  | 1500 WIT                                       |      | 1500 WIT                                       |      | 1500 WIT   |      |
|                                           |  | 15A WFL C                                      |      | 15A WFL C                                      |      | 15A WFL C  |      |
|                                           |  | COILS                                          |      | COILS                                          |      | COILS      |      |
| LN INV CP 1500 P 5AW 50 GAUS WIT          |  | 0.00                                           | 0.00 | 0.00                                           | 0.00 | 0.00       | 0.00 |
|                                           |  | COILS                                          |      | COILS                                          |      | COILS      |      |
|                                           |  | OPT-DAL 50                                     |      | OPT-DAL 50                                     |      | OPT-DAL 50 |      |
|                                           |  | 1500 WIT                                       |      | 1500 WIT                                       |      | 1500 WIT   |      |
|                                           |  | 15A WFL C                                      |      | 15A WFL C                                      |      | 15A WFL C  |      |
|                                           |  | COILS                                          |      | COILS                                          |      | COILS      |      |
| LN INV CP 1500 P 5BW 50 GAUS WIT          |  | 0.00                                           | 0.00 | 0.00                                           | 0.00 | 0.00       | 0.00 |
|                                           |  | COILS                                          |      | COILS                                          |      | COILS      |      |
|                                           |  | OPT-DAL 75                                     |      | OPT-DAL 75                                     |      | OPT-DAL 75 |      |
|                                           |  | 1500 WIT                                       |      | 1500 WIT                                       |      | 1500 WIT   |      |
|                                           |  | 15A WFL C                                      |      | 15A WFL C                                      |      | 15A WFL C  |      |
|                                           |  | COILS                                          |      | COILS                                          |      | COILS      |      |
| LN INV CP 1500 P 5BW 50 GAUS WIT          |  | 0.00                                           | 0.00 | 0.00                                           | 0.00 | 0.00       | 0.00 |
|                                           |  | COILS                                          |      | COILS                                          |      | COILS      |      |
|                                           |  | OPT-DAL 75                                     |      | OPT-DAL 75                                     |      | OPT-DAL 75 |      |
|                                           |  | 1500 WIT                                       |      | 1500 WIT                                       |      | 1500 WIT   |      |
|                                           |  | 15A WFL C                                      |      | 15A WFL C                                      |      | 15A WFL C  |      |
|                                           |  | COILS                                          |      | COILS                                          |      | COILS      |      |

| LINEAR INDICATOR* DRIVING DATA W/ | DRIVER                                                | DIRTY                    | INCOMPLETE           | Total                    | AVG                      | DA                       |
|-----------------------------------|-------------------------------------------------------|--------------------------|----------------------|--------------------------|--------------------------|--------------------------|
| LN INV 08 1300 P 5AM 800 500W W/  | OSRAM<br>ETI-DALY 10<br>10A-10L<br>10A-10L<br>10A-10L | 407<br>387<br>387<br>387 | 10<br>10<br>10<br>10 | 427<br>407<br>407<br>407 | 100<br>100<br>100<br>100 | 100<br>100<br>100<br>100 |
| LN INV 08 1300 P 5AM 800 500W W/  | OSRAM<br>ETI-DALY 10<br>10A-10L<br>10A-10L            | 407<br>387<br>387<br>387 | 10<br>10<br>10<br>10 | 427<br>407<br>407<br>407 | 100<br>100<br>100<br>100 | 100<br>100<br>100<br>100 |
| LN INV 08 1300 P 5AM 800 500W W/  | OSRAM<br>ETI-DALY 10<br>10A-10L<br>10A-10L            | 407<br>387<br>387<br>387 | 10<br>10<br>10<br>10 | 427<br>407<br>407<br>407 | 100<br>100<br>100<br>100 | 100<br>100<br>100<br>100 |
| LN INV 08 1300 P 5AM 800 500W W/  | OSRAM<br>ETI-DALY 10<br>10A-10L<br>10A-10L            | 407<br>387<br>387<br>387 | 10<br>10<br>10<br>10 | 427<br>407<br>407<br>407 | 100<br>100<br>100<br>100 | 100<br>100<br>100<br>100 |
| LN INV 08 1300 P 5AM 800 500W W/  | OSRAM<br>ETI-DALY 10<br>10A-10L<br>10A-10L            | 407<br>387<br>387<br>387 | 10<br>10<br>10<br>10 | 427<br>407<br>407<br>407 | 100<br>100<br>100<br>100 | 100<br>100<br>100<br>100 |
| LN INV 08 1300 P 5AM 800 500W W/  | OSRAM<br>ETI-DALY 10<br>10A-10L<br>10A-10L            | 407<br>387<br>387<br>387 | 10<br>10<br>10<br>10 | 427<br>407<br>407<br>407 | 100<br>100<br>100<br>100 | 100<br>100<br>100<br>100 |



## References / Links

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

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