

PRODUCT DATASHEET

LN INV D 1500 P 52W 940 DAVR BK

LINEAR INDIVILED DIRECT 1500 DALI | Surface mounted luminaire for single or light line office application with CRI90 and DALI-2 IoT technology, 1500 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 135 lm/W
- IoT-ready luminaire with DALI-2 driver, suitable for VIVARES and other Light Management Systems
- Symmetric and asymmetric 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
- 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 mm²
- Lifetime (L80/B10): 70,000 h (at 25 °C)

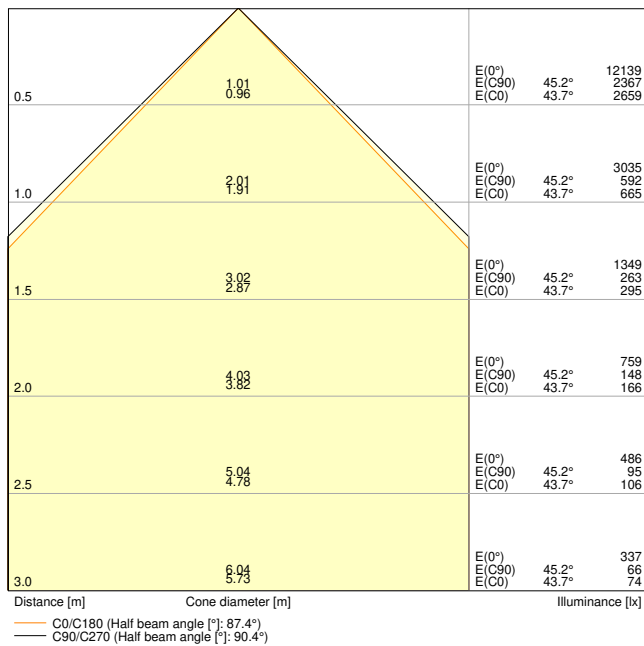
TECHNICAL DATA

Electrical data

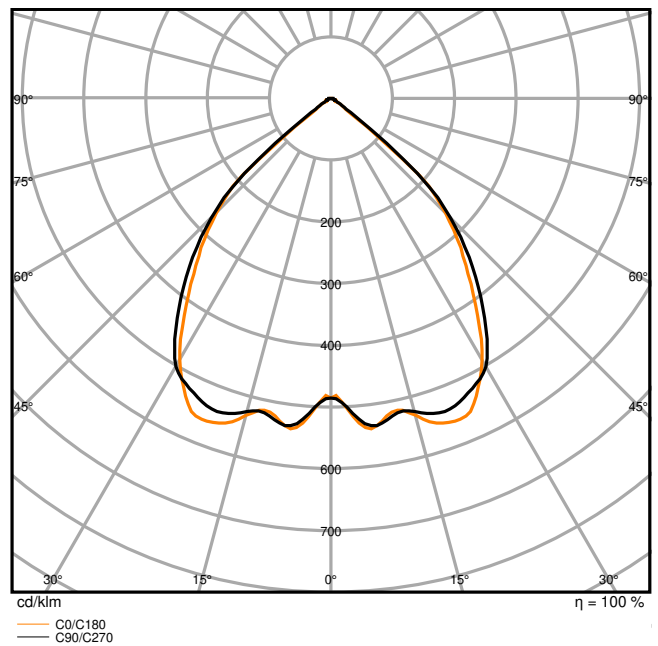
| | |
|---|---------------------------|
| Nominal wattage | 52 W / 48 W / 44 W / 39 W |
| Nominal voltage | 220...240 V |
| Mains frequency | 0/50/60 Hz |
| Nominal current | 232...210...200...185 mA |
| Inrush current | 25.2 A |
| Inrush current time T_{h50} | 40 μ s |
| Max. number of luminaires per 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 λ | ≥ 0.90 |
| Total harmonic distortion | ≤ 20 % |
| Protection class | I |
| Operating mode | Integrated LED driver |
| Dimming interface | DALI-2 / IoT |

Photometrical data

| | |
|--|---|
| Luminous flux | 5100 lm / 5700 lm / 5850 lm / 6250 lm |
| Luminous efficacy | 131 lm/W / 130 lm/W / 122 lm/W / 120 lm/W |
| Color temperature | 4000 K |
| Light color (designation) | Cool White |
| Color rendering index Ra | > 90 |
| Standard deviation of color matching | 3 sdc _m |
| Low flicker | Yes |
| Flickering metric (Pst LM) | ≤ 1 |
| Stroboscope effect metric (SVM) | ≤ 0.4 |
| Photobiological safety group acc. to EN62778 | RG0 |
| Photobiological safety group acc. to EN62471 | RG0 |
| Beam angle | 90 ° |
| UGR | < 19 |



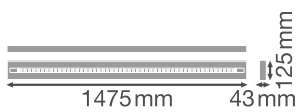
LN INV D 1500 P 52W 940 DAVR BK 1050mA



LN INV D 1500 P 52W 940 DAVR BK 1050mA

Dimensions & Weight

| | |
|----------------|------------|
| Length | 1475.00 mm |
| Width | 125.00 mm |
| Height | 43.00 mm |
| Product weight | 3820.00 g |



LN INV 1500 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 |
| Mounting type | Suspended/Surface |
| Mounting location | Ceiling |
| Application environment | Indoor |
| Adjustable | No |
| With light source | Yes |

Lifespan

| | |
|----------------------------|------------------------|
| Lifespan L70/B50 at 25 °C | 100000 h ¹⁾ |
| Lifespan L80/B10 at 25 °C | 70000 h ¹⁾ |
| 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 | 1050 mA |
| ECG - Output ripple current | ≤ 3 % |
| 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-00027-V01.01-EN |
| Replaceable light source (EPREL) | By the end consumer |

Additional product data

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

Accessories Optional

| Product image | Product name | EAN |
|---|-------------------------------|---------------|
|  | | 4099854297083 |
|  | LN INV SUSPENSION KIT BK | 4099854297069 |
|  | LN INV INFILL 600 BK | 4099854297045 |
|  | LN INV INFILL 1200 BK | 4099854297007 |
|  | LN INV INFILL 1500 BK | 4099854297021 |
|  | LN INV SUSPENSION WIRE | 4099854215551 |
|  | LN INV 1500 THROUGHWIRING KIT | 4099854214806 |

| Product image | Product name | EAN |
|--|-------------------------|---------------|
|  | LN INV INLINE CONNECTOR | 4099854215612 |







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









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 | LN INV D PS |
|  | Legal information | LSI LN INV DAVR WT |
|  | Legal information | Legal Insert LN INV P 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 1500 P 52W 940 DAVR BK 1050mA |
|  | LDT file (Eulumdat) | LN INV D 1500 P 52W 940 DAVR BK 1050mA |

| Photometric and lighting design files | | Document name |
|---|-------------------------------------|--|
|  | ULD file (DIALux) | LN INV D 1500 P 52W 940 DAVR BK |
|  | ROLF file (RELUX) | LN INV D 1500 P 52W 940 DAVR BK |
|  | UGR file (UGR table) | LN INV D 1500 P 52W 940 DAVR BK 1050mA |
|  | Light distribution curve type cone | LN INV D 1500 P 52W 940 DAVR BK 1050mA |
|  | Light distribution curve type polar | LN INV D 1500 P 52W 940 DAVR BK 1050mA |
| CAD/BIM files | | Document name |
|  | BIM Revit 3D | Linear Indiviled G2 |
|  | CAD STEP 3D | LN INV D 1500 G2 |
| Tender texts | | Document name |
|  | Tender documents | LINEAR INDIVILED DIRECT 1500 DALI P 52W 940 DAVR BK-EN |

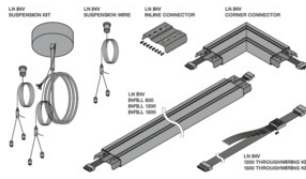
LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854296802 | Folding box 1 | 177 mm x 1,530 mm x 102 mm | 4520.00 g | 27.62 dm ³ |
| 4099854296819 | Shipping box 2 | 1,550 mm x 197 mm x 224 mm | 10640.00 g | 68.40 dm ³ |

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 InduLED® DIRECT DALI BK | DRIVER | mA | W | lm | lm/W | MPC |
|---------------------------------|----------------------|------|----|------|------|--------|
| LN INV D 1200 P 40W 930 DAVR BK | OSRAM | 500 | 25 | 3015 | 120 | MPC |
| | 071 DALI 9V | 600 | 30 | 3300 | 110 | MPC |
| | 250-340 1A4 MPC L | 700 | 34 | 4125 | 121 | MPC |
| LN INV D 1200 P 42W 940 DAVR BK | OSRAM | 600 | 25 | 3100 | 126 | MPC |
| | 071 DALI 9V | 700 | 30 | 3700 | 123 | MPC |
| | 250-340 1A4 MPC L | 800 | 40 | 4800 | 120 | Phosor |
| LN INV D 1500 P 52W 940 DAVR BK | OSRAM | 800 | 39 | 4710 | 121 | MPC |
| | 071 DALI 9V | 900 | 44 | 5040 | 116 | MPC |
| | 250-340 1A4 MPC L | 1000 | 50 | 5900 | 118 | Phosor |
| LN INV D 1500 P 52W 940 DAVR BK | OSRAM | 800 | 39 | 5100 | 131 | MPC |
| | 071 DALI 9V | 900 | 44 | 5500 | 126 | MPC |
| | 250-340 1A4 MPC L | 1000 | 48 | 5800 | 121 | MPC |



References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

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