# PRODUCT DATASHEET
# LN INV D 1500 P 52W 930 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 ≤ 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 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 separetely)


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- Glow Wire Test according to IEC 60695-2-12: 850 °C
- 5-pole terminal block, cable cross section up to 5 x 2.5 $mm^2$
- Lifetime (L80/B10): 70,000 h (at 25 °C)
- Multi Lumen function: programmable DALI-2 driver


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# TECHNICAL DATA

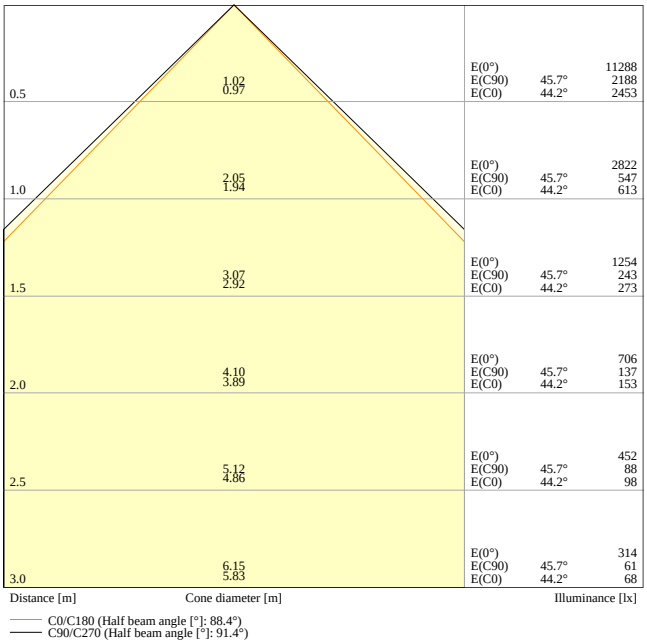
## Electrical data

| | |
|---|---|
| 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 µs |
| 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 |
| Maximum total harmonic distortion | ≤ 20 % |
| Protection class | I |
| Operating mode | Integrated LED driver |
| Dimming interface | DALI-2 / IoT |

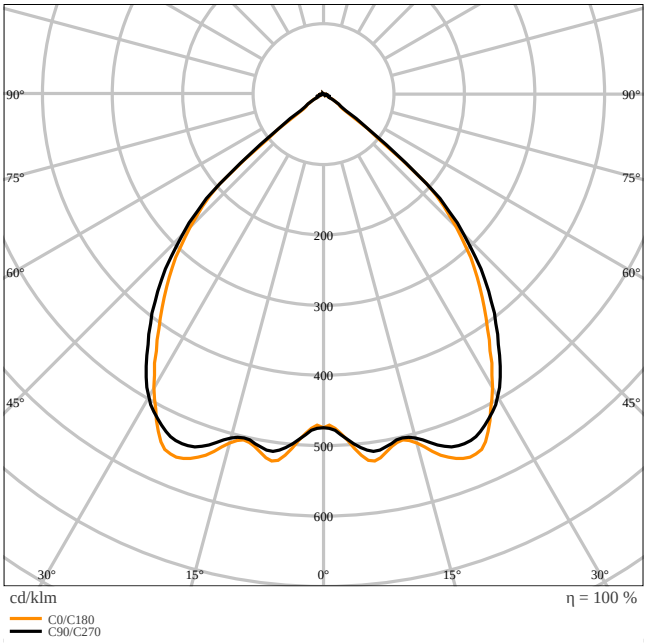
## Photometrical data

| | |
|---|---|
| Luminous flux | 5950 lm / 5450 lm / 5250 lm / 4700 lm |
| Luminous efficacy | 114 lm/W / 114 lm/W / 119 lm/W / 121 lm/W |
| Color temperature | 3000 K |
| Light color (designation) | Warm White |
| Color rendering index Ra | ≥90 |
| Standard deviation of color matching | 3 sdcm |
| Low flicker | Yes |
| Flickering metric (Pst LM) | ≤1 |
| Stroboscope effect metric (SVM) | ≤0.4 |
| Photobiological safety group acc. to EN62778 | RG1 |
| Photobiological safety group acc. to EN62471 | RG0 |
| Beam angle | 90 ° |
| UGR | < 19 |


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LN INV D 1500 P 52W 930 DAVR BK 1050mA




LN INV D 1500 P 52W 930 DAVR BK

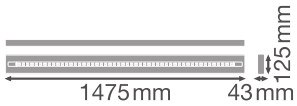
## Adjustable attributes

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|---|---|---|---|
| 52 W | 3000 K | 5950 lm | 114 lm/W |
| 48 W | 3000 K | 5450 lm | 114 lm/W |
| 44 W | 3000 K | 5250 lm | 119 lm/W |
| 39 W | 3000 K | 4700 lm | 121 lm/W |

## Dimensions & Weight

| | |
|---|---|
| Length | 1475.00 mm |
| Width | 125.00 mm |
| Height | 43.00 mm |
| Product weight | 3800.00 g |


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LN INV 1500 P

## Materials & Colors

| | |
|---|---|
| Product color | Black |
| Housing color | Black |
| RAL Color (most similar) | RAL 9005 |
| 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 | DALI-2 |
| IoT ready | Support of DALI data type PART 251, 252, 253 [1)] |
| Mounting type | Suspended/Surface |
| Mounting location | Ceiling |
| Application environment | Indoor |
| Mechanically adjustable | No |
| With light source | Yes |
| Replaceable light source | Yes |


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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 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 1) |
| 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 | 1050mA / 975mA / 900mA / 800 mA |
| Output ripple current (100 Hz) | ≤ 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-00027-V01.01-EN |
| Replaceable light source (EPREL) | Only by an expert |

## Additional product data

| | |
|---|---|
| Number of illuminants | 1 |
| Added function | EVERLOOP / VIVARES / Programmable Multi Lumen |

## Accessories Optional

| Product image | Product name | EAN |
|---|---|---|
|  | LN INV SUSPENSION KIT BK | 4099854297069 |
|  | LN INV SUSPENSION WIRE | 4099854323980 |


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| Product image | Product name | EAN |
|---|---|---|
|  | LN INV 1500 THROUGHWIRING KIT | 4099854214806 |
|  | 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 |

## 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 1339x29 59 52W 930 S90U19 BK | 4099854652110 |

## Components for light control

Components Light Control


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| Product image | Product name | EAN |
|---|---|---|
|  | MANUAL CONTROL UNIT GROUP DALI-2 TW | 4099854748691 |
|  | MANUAL CONTROL UNIT SELECT DALI-2 | 4058075837485 |
|  | MANUAL CONTROL UNIT SELECT DALI-2 TW | 4058075837508 |
|  | MANUAL CONTROL UNIT SELECT DALI-2 EXCHANGEABLE COVER TW | 4058075837522 |
|  | MANUAL CONTROL UNIT TOUCH DALI-2 TW | 4058075837560 |
|  | MANUAL CONTROL UNIT TOUCH DALI-2 | 4058075837546 |
|  | PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW | 4058075837584 |
|  | PUSH CONTROL UNIT FM DALI-2 DIM | 4099854846922 |
|  | SURFACE MOUNT FRAME | 4058075843561 |
|  | PUSHBUTTON COUPLER DALI-2 | 4058075837607 |
|  | FLEX CONTROL UNIT IOT DALI-2 HCL TW | 4058075841888 |


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| Product image | Product name | EAN |
|---|---|---|
|  | FLEX CONTROL UNIT FLUSH MOUNT DALI-2 TW | 4058075841901 |
|  | FLEX CONTROL UNIT DALI-2 TW | 4058075843844 |
|  | FLEX CONTROL UNIT REAL-TIME-CLOCK DALI-2 HCL TW | 4058075841925 |
|  | SENSOR DALI-2 LIGHT/PRESENCE-6 INFRARED CEILING INTEGRATION | 4058075837621 |
|  | SENSOR CEILING MOUNTING KIT LIGHT/PRESENCE-6 | 4099854748714 |
|  | SENSOR DALI-2 LIGHT/PRESENCE-8 INFRARED CEILING INTEGRATION | 4058075841949 |
|  | SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION | 4058075843868 |
|  | SENSOR DALI-2 LIGHT/PRESENCE-24 INFRARED CEILING MOUNTING | 4058075843882 |
|  | HIGHBAY SENSOR DALI-2 LIGHT/PRESENCE -21 INFRARED CEILING MOUNTING | 4058075857537 |
|  | DALI sensors -8 IR CI, -40X5 IR CI, -24 IR CM, -21 IR CM | 4058075843905 |
|  | RELAY DALI-2 RAIL MOUNTING | 4099854709159 |


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| Product image | Product name | EAN |
|---|---|---|
|  | RELAY DALI-2 CEILING MOUNTING | 4099854709135 |
|  | REPEATER DALI-2 RAIL MOUNTING | 4099854709111 |
|  | REPEATER DALI-2 CEILING MOUNTING | 4099854709098 |

## 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 |
|---|---|---|
| PDF | User instruction / safety instructions | LN INV D PS |
| PDF | Legal information | Safety Insert G11205497 |
| PDF | Legal information | Informationstext 18 Abs 4 ElektroG |
| PDF | Legal information | Legal Insert G11235610 |
| PDF | Legal information | LN INV D DI |
| PDF | Declarations of conformity | LN INV |
| PDF | Declarations of conformity UKCA | LN INV |
| PDF | Certificates | LN INV |
| PDF | EU Data Act | DALI LED Driver and Luminaires |
| PDF | EPD | EPD EN LINEAR INDIVILED DIRECT DALI |


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| | Photometric and lighting design files | Document name |
|---|---|---|
| | IES file (IES) | LN INV D 1500 P 52W 930 DAVR BK 1050mA |
| | LDT file (Eulumdat) | LN INV D 1500 P 52W 930 DAVR BK 1050mA |
| | ULD file (DIALux) | LN INV D 1500 P 52W 930 DAVR BK |
| | ROLF file (RELUX) | LN INV D 1500 P 52W 930 DAVR BK |
| | UGR file (UGR table) | LN INV D 1500 P 52W 930 DAVR BK 1050mA |
| | Light distribution curve type cone | LN INV D 1500 P 52W 930 DAVR BK 1050mA |
| | Light distribution curve type polar | LN INV D 1500 P 52W 930 DAVR BK |

| | 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 930 DAVR BK-EN |

## LOGISTICAL DATA

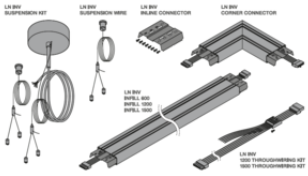
| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4099854296765 | Folding box<br>1 | 177 mm x 1,530 mm x 102 mm | 4500.00 g | 27.62 $dm^3$ |
| 4099854296772 | Shipping box<br>2 | 1,550 mm x 197 mm x 224 mm | 10600.00 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.


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## ADDITIONAL CATALOG INFORMATION

| LINEAR IndiviLED® DIRECT DALI BK | DRIVER | mA | W | lm | lm/W | NFC |
|---|---|---|---|---|---|---|
| LN INV D 1200 P 40W 930 DAVR BK | OSRAM OTi DALI 50/ 220-240/ 1A4 NFC L | 500 | 25 | 3010 | 120 | NFC |
| | | 600 | 30 | 3580 | 120 | NFC |
| | | 700 | 34 | 4130 | 121 | NFC |
| | | 800 | 40 | 4660 | 117 | Preset |
| LN INV D 1200 P 40W 940 DAVR BK | OSRAM OTi DALI 50/ 220-240/ 1A4 NFC L | 500 | 25 | 3160 | 126 | NFC |
| | | 600 | 30 | 3750 | 125 | NFC |
| | | 700 | 34 | 4320 | 127 | NFC |
| | | 800 | 40 | 4900 | 123 | Preset |
| LN INV D 1500 P 52W 930 DAVR BK | OSRAM OTi DALI 50/ 220-240/ 1A4 NFC L | 800 | 39 | 4710 | 121 | NFC |
| | | 900 | 44 | 5240 | 119 | NFC |
| | | 975 | 48 | 5440 | 113 | NFC |
| | | 1050 | 52 | 5920 | 114 | Preset |
| LN INV D 1500 P 52W 940 DAVR BK | OSRAM OTi DALI 50/ 220-240/ 1A4 NFC L | 800 | 39 | 5100 | 131 | NFC |
| | | 900 | 44 | 5680 | 129 | NFC |
| | | 975 | 48 | 5820 | 121 | NFC |
| | | 1050 | 52 | 6210 | 119 | Preset |



## References / Links

– For Guarantee see www.ledvance.com/guarantee

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