# PRODUCT DATASHEET
# LN INV D 1500 P 52W 940 PS WT

LINEAR INDIVILED DIRECT 1500 PS | Surface mounted luminaire for single or light line office application with CRI90 and Multi Lumen function, 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 130 lm/W
- Highly versatile due to selectable lumen steps (Multi Lumen) on the driver
- Symmetric 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

## 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)
- Glow Wire Test according to IEC 60695-2-12: 850 °C
- 5-pole terminal block, cable cross section up to 5 x 2.5 $mm^2$


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– Lifetime (L80/B10): 70,000 h (at 25 °C)


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# TECHNICAL DATA

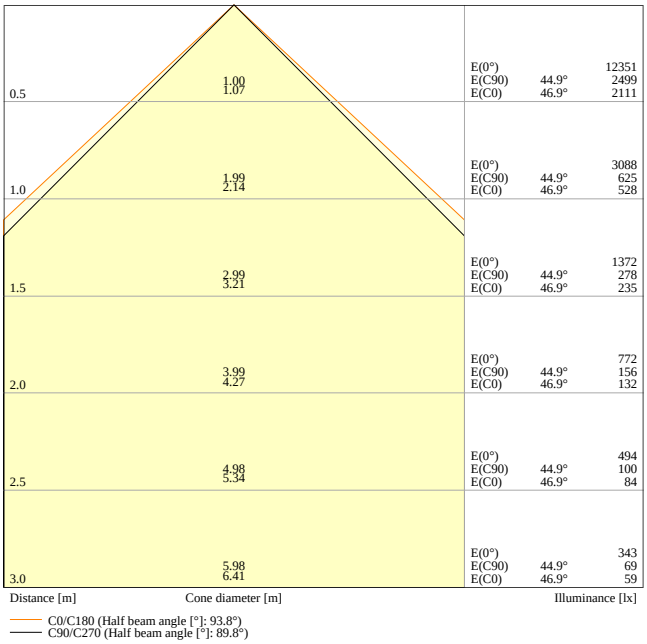
## Electrical data

| | |
|---|---|
| Nominal wattage | 52 W / 48 W / 46 W / 40 W |
| Nominal voltage | 220…240 V |
| Mains frequency | 50…60 Hz |
| Nominal current | 240…220…205…185 mA |
| Inrush current | 14.6 A |
| Inrush current time $T_{h50}$ | 170 µs |
| Max. number of luminaires per miniature circuit breaker B16 | 28 |
| 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 |

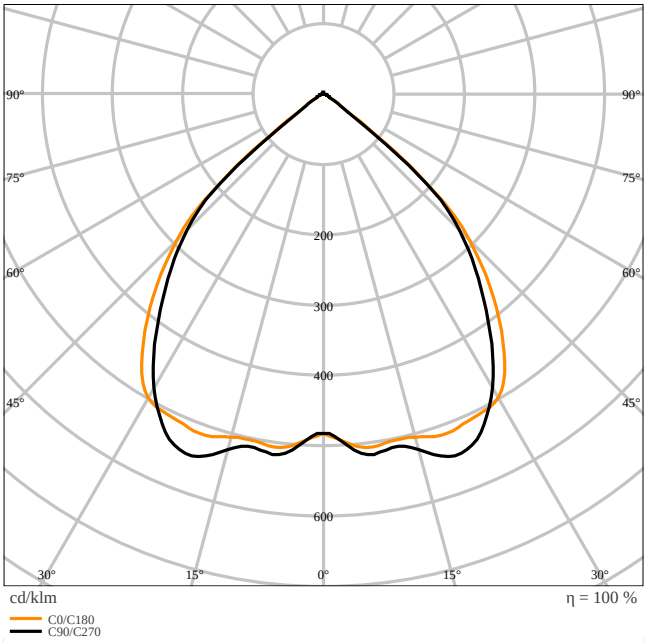
## Photometrical data

| | |
|---|---|
| Luminous flux | 6360 lm / 5920 lm / 5900 lm / 5200 lm |
| Luminous efficacy | 126 lm/W / 127 lm/W / 128 lm/W / 130 lm/W |
| Color temperature | 4000 K |
| Light color (designation) | Cool 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 940 PS WT 1050mA




LN INV D 1500 P 52W 940 PS WT

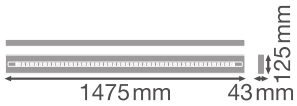
## Adjustable attributes

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|---|---|---|---|
| 52 W | 4000 K | 6550 lm | 126 lm/W |
| 48 W | 4000 K | 6100 lm | 127 lm/W |
| 46 W | 4000 K | 5900 lm | 128 lm/W |
| 40 W | 4000 K | 5200 lm | 130 lm/W |

## Dimensions & Weight

| | |
|---|---|
| Length | 1475.00 mm |
| Width | 125.00 mm |
| Height | 43.00 mm |
| Product weight | 3960.00 g |


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LN INV 1500 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 |
| Type of protection | IP20 |
| Protection class IK (shock resistance) | IK06 |
| Dimmable | No |
| 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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## 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 OT FIT 55/220–240/1A0 CS L AP |

## 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 / MULTI LUMEN |

## Accessories Optional

| Product image | Product name | EAN |
|---|---|---|
|  | LN INV SUSPENSION KIT WT | 4099854215537 |
|  | LN INV SUSPENSION WIRE | 4099854323980 |
|  | LN INV 1500 THROUGHWIRING KIT | 4099854214806 |


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| Product image | Product name | EAN |
|---|---|---|
|  | 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 1339x29 65 52W 940 S90U19 GY | 4099854284854 |

Components Driver

| Product image | Product name | EAN |
|---|---|---|
|  | OT FIT 55/220…240/1A0 CS L G2 | 4052899522558 |


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## 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 |
| PDF | Legal information | Informationstext 18 Abs 4 ElektroG |
| PDF | Legal information | Safety Insert G11205497 |
| PDF | Legal information | Legal Insert G11235609 |
| PDF | Legal information | LN INV D DI |
| PDF | Declarations of conformity | LN INV |
| PDF | Declarations of conformity UKCA | LN INV |
| PDF | EPD | EPD EN LINEAR INDIVILED DIRECT DALI |

| | Photometric and lighting design files | Document name |
|---|---|---|
| IES | IES file (IES) | LN INV D 1500 P 52W 940 PS WT 1050mA |
| LDT | LDT file (Eulumdat) | LN INV D 1500 P 52W 940 PS WT 1050mA |
| ULD | ULD file (DIALux) | LN INV D 1500 P 52W 940 PS WT |
| ROLF | ROLF file (RELUX) | LN INV D 1500 P 52W 940 PS WT |
| | UGR file (UGR table) | LN INV D 1500 P 52W 940 PS WT 1050mA |
| | Light distribution curve type cone | LN INV D 1500 P 52W 940 PS WT 1050mA |
| | Light distribution curve type polar | LN INV D 1500 P 52W 940 PS WT |


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| | CAD/BIM files | Document name |
|---|---|---|
| | BIM Revit 3D | Linear Indiviled G2 |
| | CAD STEP 3D | LN INV D 1500 G2 |

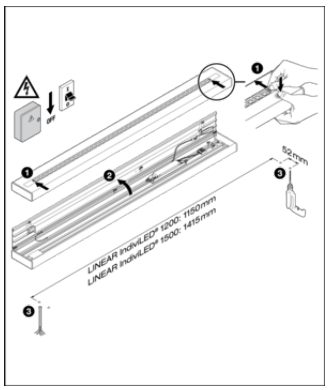
| | Tender texts | Document name |
|---|---|---|
| | Tender documents | LINEAR INDIVILED DIRECT 1500 PS 1500 P 52W 940 PS WT-EN |

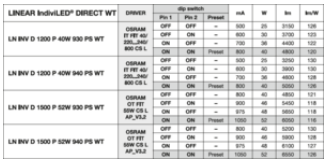
## LOGISTICAL DATA

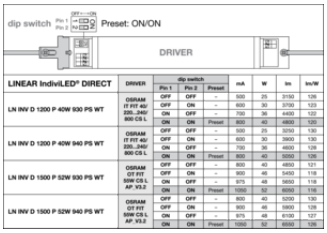
| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4099854135491 | Folding box<br>1 | 1,252 mm x 167 mm x 87 mm | 4660.00 g | 18.19 $dm^3$ |
| 4099854135507 | Shipping box<br>2 | 1,547 mm x 187 mm x 189 mm | 10920.00 g | 54.68 $dm^3$ |

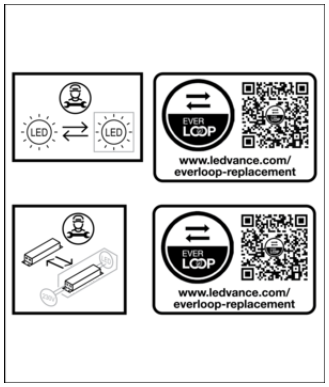
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

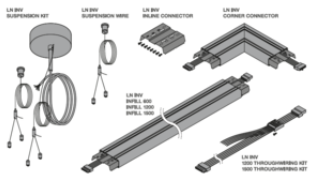
## ADDITIONAL CATALOG INFORMATION






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## References / Links

– For Guarantee see www.ledvance.com/guarantee

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