# PRODUCT DATASHEET
# LN INV DI 1200 P 54W 940 DA EL BK

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




## Areas of application

- Emergency illumination of escape routes
- Buildings requiring up to 3 h emergency light operation
- Direct replacement for luminaires with fluorescent lamps
- Offices, education, public buildings
- Single and continuous line configuration
- Direct and indirect lighting

## Product benefits

- Seamless integration of luminaires with emergency lighting function into general lighting
- Operation of integrated emergency lighting function with long life LiFePO4 battery with 3h battery discharge time
- Simple testing of luminaires with emergency lighting function thanks to integrated automatic test function
- Convenient visualization of results of automatic test with an included control LED
- 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
- Multiple mounting options thanks to different accessories

## Product features

- Certified according to European norms (EN 60598-2-22)
- Luminaire suitable for normal lighting and emergency lighting
- Emergency lighting function: battery discharge time of 3 h
- Function test of emergency lighting: automatic (AT)




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- Battery technology: LiFePO4
- 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)
- 5-pole terminal block, cable cross section up to 5 x 2.5 $mm^2$
- Lifetime (L80/B10): 70,000 h (at 25 °C)


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# TECHNICAL DATA

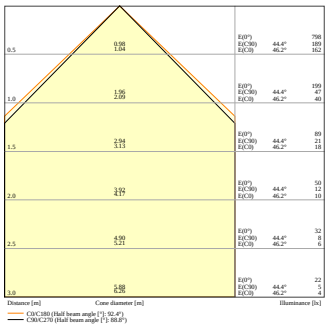
## Electrical data

| | |
|---|---|
| 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 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 |
| Surge capability (L-N) | 1000 V |
| Surge capability (L/N-Ground) | 2000 V |
| Operating mode | Integrated LED driver |
| Dimming interface | DALI-2 / IoT |

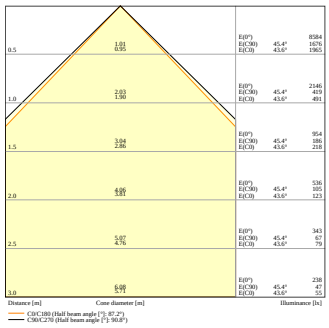
## Photometrical data

| | |
|---|---|
| Luminous flux | 6800 lm / 5950 lm / 5500 lm / 4550 lm |
| Luminous efficacy | 126 lm/W / 124 lm/W / 129 lm/W / 134 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 |
| Beam angle | 90 ° + 130 ° |
| UGR | < 19 |

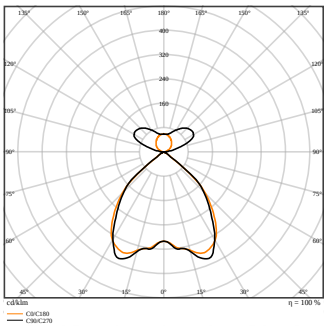

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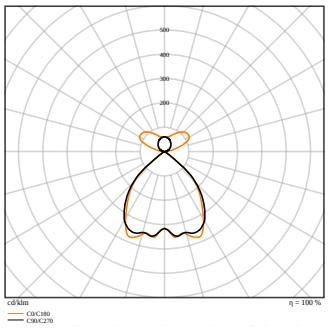
LN INV DI 1200 P 54W 940 DAVR EM BK



LN INV DI 1200 P 55W 940 DA EL BK 1100mA



LN INV DI 1200 P 54W 940 DAVR EM BK



LN INV DI 1200 P 55W 940 DA EL BK 1100mA

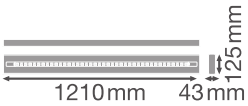
## Adjustable attributes

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|---|---|---|---|
| 54 W | 4000 K | 6800 lm | 126 lm/W |
| 48 W | 4000 K | 5950 lm | 124 lm/W |
| 43 W | 4000 K | 5500 lm | 129 lm/W |
| 34 W | 4000 K | 4550 lm | 134 lm/W |

## Dimensions & Weight

| | |
|---|---|
| Length | 1210.00 mm |
| Width | 125.00 mm |
| Height | 43.00 mm |
| Product weight | 3800.00 g |


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LN INV 1200 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 | 0…+40 °C |
| Temperature range at storage | -25…+25 °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 |
| IoT ready | Support of DALI data type PART 251, 252, 253 [1)] |
| Mounting type | Suspended |
| 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 | 1100mA / 950mA / 850mA / 700 mA |
| Output ripple current (100 Hz) | ≤ 5 % |
| Recommended control gear | OSRAM type OTI DALI 50/220-240/1A4 NFC L |

## BATTERY

| | |
|---|---|
| Type of Battery | LiFePO4 |
| Battery size [GMS] | Others |
| Nominal voltage of battery | 3.2 V |
| Nominal capacity of battery | 4500 mAh |
| Battery charging time | 24 h |

## Emergency lighting

| | |
|---|---|
| Type of Emergency Lighting (EL) | EL unit (battery and controller) for decentral operation included / EL certified driver (0Hz / DC operation) for central battery operation included |
| Area of emergency application | Anti-panic lighting / Escape route lighting |
| Type of emergency light operation | Non-maintained / Maintained |
| Type of emergency operation test | Automatic |
| Wattage in emergency operation mode | 2.3 W |
| Luminous flux in emergency operation mode | 400 lm |
| Battery life in emergency operation mode | 3 h |

## Certificates & Standards

| | |
|---|---|
| Standards | CE / CB / ENEC / TÜV SÜD / UKCA / EAC / EPD |
| Luminaire with limited surface temperature, "D sign" | No |
| Ball shot safe | No |
| Replaceable light source (EPREL) | Only by an expert |


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## Additional product data

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

## Required Accessories and Components

| Product image | Product name | EAN |
|---|---|---|
|  | LN INV SUSPENSION KIT BK | 4099854297069 |
|  | 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 BK | 4099854308079 |
|  | LN INV INFILL 600 BK | 4099854297045 |
|  | LN INV INFILL 1200 BK | 4099854297007 |
|  | LN INV INFILL 1500 BK | 4099854297021 |


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## 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 49 40W 940 S90U19 BK | 4099854652080 |
|  | LISOEV 1200x31 23 18W 940 S130 | 4099854284960 |

## Components for light control

Components Light Control

| 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 |


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| Product image | Product name | EAN |
|---|---|---|
|  | 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 |
|  | 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 |


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| Product image | Product name | EAN |
|---|---|---|
|  | 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 |
|  | 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.


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## DOWNLOAD DATA

| | Documents and certificates | Document name |
|---|---|---|
| PDF | User instruction / safety instructions | LN INV D/DI 1200/1500 P DA EL |
| PDF | Legal information | Safety Insert G11205497 |
| PDF | Legal information | Legal Insert G11235610 |
| PDF | Legal information | Informationstext 18 Abs 4 ElektroG |
| PDF | Legal information | LN IND DALI EM |
| PDF | Declarations of conformity | CE declaration LN IND D P DA EL |
| PDF | Declarations of conformity UKCA | UKCA declaration LN INV D P DA EL |
| PDF | EU Data Act | DALI LED Driver and Luminaires |

| | Photometric and lighting design files | Document name |
|---|---|---|
| IES | IES file (IES) | LN INV DI 1200 P 54W 940 DAVR EM BK |
| IES | IES file (IES) | LN INV DI 1200 P 55W 940 DA EL BK 1100mA |
| LDT | LDT file (Eulumdat) | LN INV DI 1200 P 54W 940 DAVR EM BK |
| LDT | LDT file (Eulumdat) | LN INV DI 1200 P 55W 940 DA EL BK 1100mA |
| | UGR file (UGR table) | LN INV DI 1200 P 54W 940 DAVR EM BK |
| | UGR file (UGR table) | LN INV DI 1200 P 55W 940 DA EL BK 1100mA |
| | Light distribution curve type cone | LN INV DI 1200 P 54W 940 DAVR EM BK |
| | Light distribution curve type cone | LN INV DI 1200 P 55W 940 DA EL BK 1100mA |
| | Light distribution curve type polar | LN INV DI 1200 P 54W 940 DAVR EM BK |
| | Light distribution curve type polar | LN INV DI 1200 P 55W 940 DA EL BK 1100mA |


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| | CAD/BIM files | Document name |
|---|---|---|
| | CAD STEP 3D | LN INV D I 1200 G2 |

| | Tender texts | Document name |
|---|---|---|
| | Tender documents | LINEAR INDIVILED DIRECT INDIRECT 1200 DALI EMERGENCY 1200 P 54W 940 DA EL BK-en |

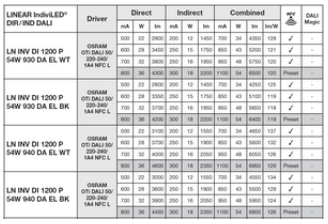
## LOGISTICAL DATA

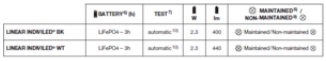
| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4099854297793 | Folding box<br>1 | 178 mm x 1,263 mm x 103 mm | 4440.00 g | 23.16 $dm^3$ |
| 4099854297809 | Shipping box<br>2 | 1,297 mm x 197 mm x 224 mm | 10280.00 g | 57.23 $dm^3$ |

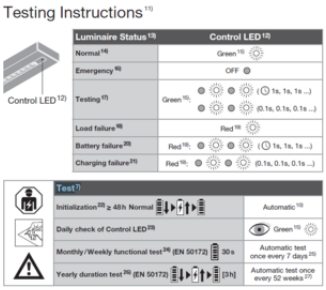
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

## ADDITIONAL CATALOG INFORMATION



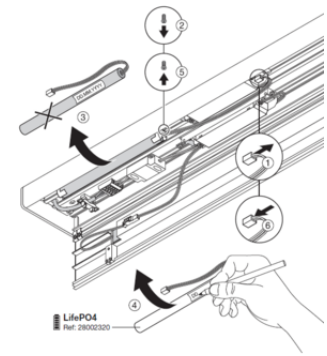















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## References / Links

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