# PRODUCT DATASHEET
# LN SF IP44 DALI 1500 P 45W 840 WT

LINEAR SURFACE IP44 DALI | Robust IP44 luminaires with direct light emission, integrated DALI driver, up to 137 lm/W



PERFOR-MANCE CLASS

## Areas of application

- Efficient replacement for traditional T8 and T5 luminaires
- Public buildings
- General illumination
- Libraries, schools

## Product benefits

- Low maintenance and low operational costs
- Protection against cover falling, theft and vandalism thanks to safety screws
- Cable entry on the back of the luminaire and on each end-caps for easy electrical connection
- Easy and quick installation
- Low flicker light thanks to special electronic control gear
- 5 years guarantee

## Product features

- Surface mounted luminaires with direct light emission
- Type of protection: IP44
- Impact resistance: IK08
- Available in 3 different lengths: 600 mm, 1200 mm and 1500 mm
- Luminous efficacy: up to 137 lm/W
- Through-wiring cable already installed
- Lifetime (L80/B10): 70,000 h (at 25 °C)
- White painted steel housing (like RAL: 9003)
- Diffuser material: UV-stable polycarbonate




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– End caps (made of polycarbonate) screwed to the housing


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# TECHNICAL DATA

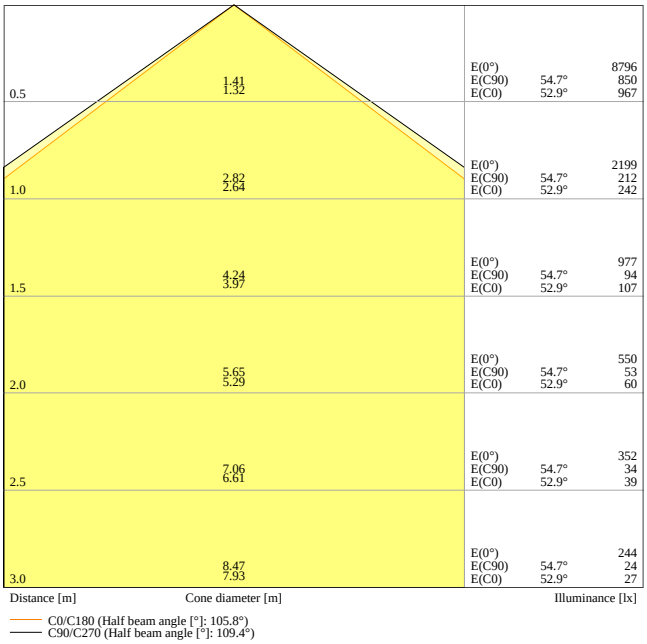
## Electrical data

| | |
|---|---|
| Nominal wattage | 45.00 W |
| Nominal voltage | 220…240 V |
| Mains frequency | 50…60 Hz |
| Nominal current | 200 mA |
| Inrush current | < 21 A |
| Inrush current time $T_{h50}$ | 230 µs |
| Max. number of luminaires per miniature circuit breaker B16 | 20 |
| Max. number of luminaires per miniature circuit breaker C10 | 21 |
| Max. number of luminaires per miniature circuit breaker C16 | 35 |
| Power factor λ | > 0.90 |
| Maximum total harmonic distortion | < 20 % |
| Protection class | I |
| Operating mode | Integrated LED driver |
| Dimming interface | DALI-2 / IoT / Push-DIM |

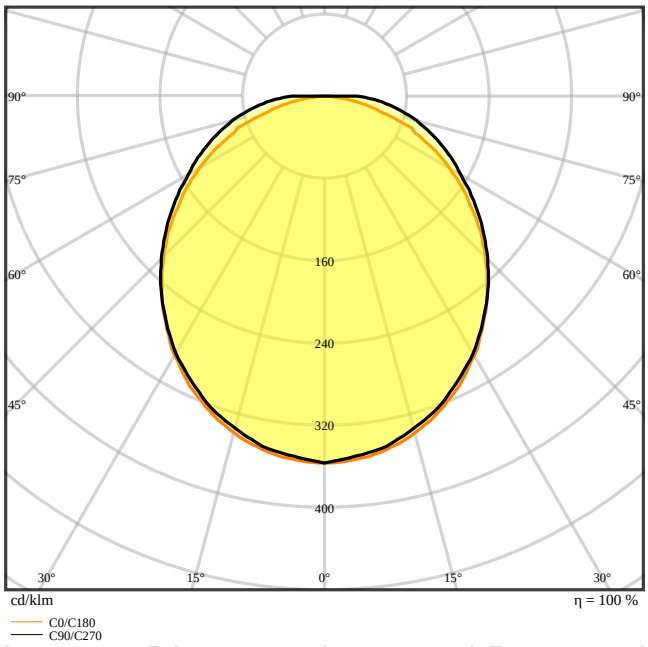
## Photometrical data

| | |
|---|---|
| Luminous flux | 6165 lm |
| Luminous efficacy | 137 lm/W |
| Color temperature | 4000 K |
| Light color (designation) | Cool White |
| Color rendering index Ra | > 80 |
| 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 | RG0 |
| Beam angle | 110 ° |


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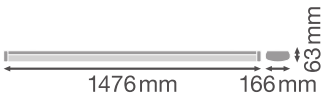

LN SF 1500 P 45W 840 WT IP44 DALI




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## Dimensions & Weight

| | |
|---|---|
| Length | 1476.00 mm |
| Width | 166.00 mm |
| Height | 63.00 mm |
| Product weight | 3000.00 g |




LN SF 1500 P 45W WT IP44


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## Materials & Colors

| | |
|---|---|
| Product color | White |
| Housing color | White |
| RAL Color (most similar) | RAL 9003 |
| Body material | Steel |
| Cover material | Polycarbonate (PC) |
| Light emitting surface material | Polycarbonate (PC) |
| Glow Wire Test according to IEC 60695-2-12 | 650 °C |
| Mercury content | 0.0 mg |

## Application & Mounting

| | |
|---|---|
| Ambient temperature range | -20…+40 °C |
| Temperature range at storage | -40…+80 °C |
| Type of connection | Screwless terminal, 5-Pole (L, N, PE, DA+, DA-) |
| Type of protection | IP44 |
| Protection class IK (shock resistance) | IK08 |
| Dimmable | Yes |
| Type of dimming | DALI-2 |
| IoT ready | Support of DALI data type PART 251, 252, 253 [1)] |
| Mounting type | Surface |
| Mounting location | Wall / Ceiling |
| Application environment | Indoor |
| Mechanically adjustable | No |
| With light source | Yes |
| Replaceable light source | No |

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 | 70000 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 | 50000 h [1)] |
| Number of switching cycles | 100000 |

1) t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)


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## Control gear

| | |
|---|---|
| Output current | 1050 mA |
| Output ripple current (100 Hz) | < 10 % |
| Recommended control gear | OTi DALI 50/220-240/1A4 NFC L |

## Certificates & Standards

| | |
|---|---|
| Standards | CE / CB / ENEC / TÜV SÜD / UKCA / EAC |
| Luminaire with limited surface temperature, "D sign" | No |
| Ball shot safe | No |
| Replaceable light source (EPREL) | Not replaceable |

## Additional product data

| | |
|---|---|
| Added function | VIVARES |

## Accessories Optional

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

## 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 |


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


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

## EQUIPMENT / ACCESSORIES

- Equipped with through-wiring cables and connectors
- Tool-free cable strain reliefs included


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## DOWNLOAD DATA

| | Documents and certificates | Document name |
|---|---|---|
| PDF | User instruction / safety instructions | UI LN SF IP44 DALI |
| PDF | Legal information | Light Source Insert LN SF P WT IP44 DALI |
| PDF | Legal information | Legal insert LN SF P IP44 DALI |
| PDF | Legal information | Informationstext 18 Abs 4 ElektroG |
| PDF | Declarations of conformity | LN SF P WT IP44 DALI |
| PDF | Declarations of conformity UKCA | LN SF WT IP44 DALI |
| PDF | Certificates | ENEC LN SF IP44 DALI |
| PDF | EU Data Act | DALI LED Driver and Luminaires |

| | Photometric and lighting design files | Document name |
|---|---|---|
| IES | IES file (IES) | LN SF 1500 P 45W 840 WT IP44 DALI |
| LDT | LDT file (Eulumdat) | LN SF 1500 P 45W 840 WT IP44 DALI |
| ULD | ULD file (DIALux) | LN SF 1500 P 45W 840 WT IP44 DALI |
| ROLF | ROLF file (RELUX) | LN SF 1500 P 45W 840 WT IP44 DALI |
| | UGR file (UGR table) | LN SF 1500 P 45W 840 WT IP44 DALI |
| | Light distribution curve type cone | LN SF 1500 P 45W 840 WT IP44 DALI |
| | Light distribution curve type polar | LN SF 1500 P 45W 840 WT IP44 DALI |

| | CAD/BIM files | Document name |
|---|---|---|
| RFA | BIM Revit 3D | Linear Surface IP44 G2 |
| STEP | CAD STEP 3D | LN SF IP44 G2 1500 |


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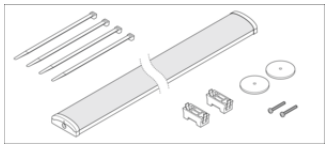
| | Tender texts | Document name |
|---|---|---|
| | Tender documents | LINEAR SURFACE IP44 DALI 1500 P 45W 840 WT-EN |

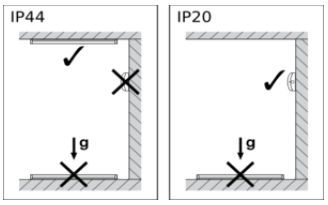
## LOGISTICAL DATA

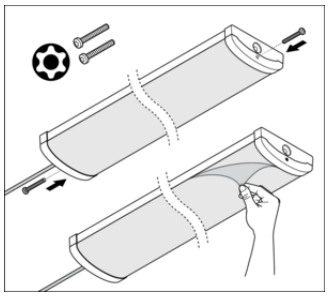
| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4058075733374 | Folding box<br>1 | 1,489 mm x 172 mm x 70 mm | 3750.00 g | 17.93 $dm^3$ |
| 4058075733381 | Shipping box<br>4 | 1,503 mm x 302 mm x 200 mm | 16185.00 g | 90.78 $dm^3$ |

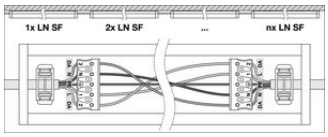
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

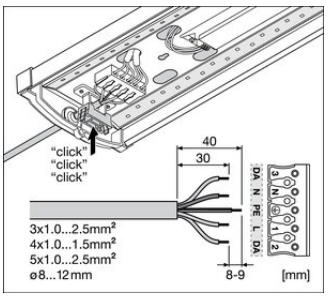
## ADDITIONAL CATALOG INFORMATION

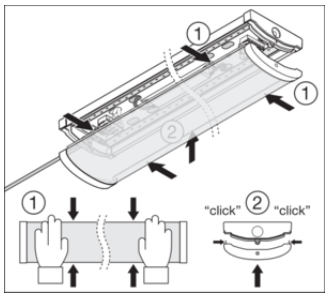







## References / Links

– For Guarantee see www.ledvance.com/guarantee

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