

# PRODUCT DATASHEET

## LN SF 1500 ZB P 45W 840 WT IP44

LINEAR SURFACE IP44 ZIGBEE | Robust IP44 luminaire with direct light emission, integrated Zigbee 3.0 driver, up to 137 lm/W

### Areas of application

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



### Product benefits

- Suitable luminaire for DIRECT EASY / VIVARES Zigbee and other Zigbee 3.0 Light Management Systems
- 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

### Product features

- IoT-ready luminaire with Zigbee 3.0 technology
- 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
- High 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
- End caps (made of polycarbonate) screwed to the housing

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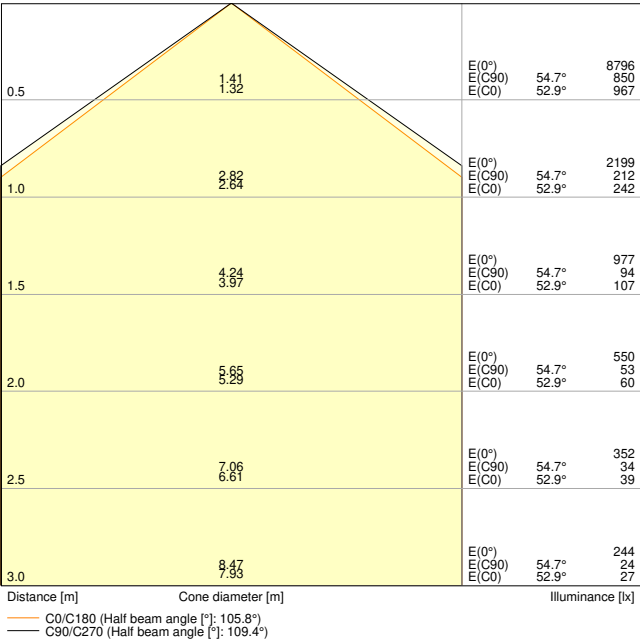
## TECHNICAL DATA

### Electrical data

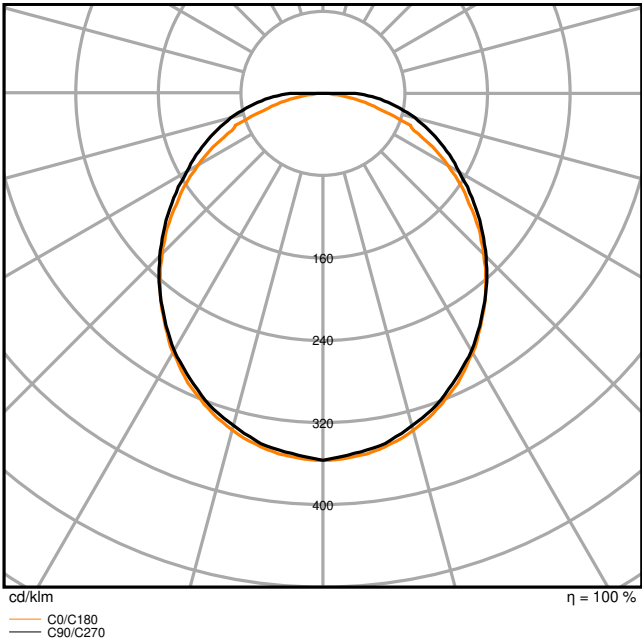
|                                                             |                     |
|-------------------------------------------------------------|---------------------|
| Nominal wattage                                             | 45.00 W             |
| Nominal voltage                                             | 220...240 V         |
| Mains frequency                                             | 50...60 Hz          |
| Nominal current                                             | 195.000 mA          |
| Inrush current                                              | < 15 A              |
| Inrush current time $T_{h50}$                               | 200 $\mu$ s         |
| Max. number of luminaires per miniature circuit breaker B16 | 25                  |
| Max. number of luminaires per miniature circuit breaker C10 | 21                  |
| Max. number of luminaires per miniature circuit breaker C16 | 34                  |
| Power factor $\lambda$                                      | > 0.90              |
| Total harmonic distortion                                   | < 20 %              |
| Protection class                                            | I                   |
| Dimming interface                                           | Zigbee Direct / IoT |

### 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 sdc <sub>cm</sub> |
| Low flicker                                  | Yes                   |
| Flickering metric (Pst LM)                   | < 1                   |
| Stroboscope effect metric (SVM)              | < 0.4                 |
| Photobiological safety group acc. to EN62778 | RG0                   |
| Beam angle                                   | 110 °                 |



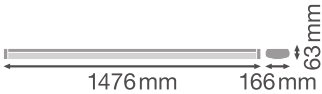
LN SF 1500 ZB P 45W 840 WT IP44



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Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1476.00 mm |
| Width          | 166.00 mm  |
| Height         | 64.00 mm   |
| Product weight | 3120.00 g  |



LN SF 1500 P 45W WT IP44

Materials & Colors

|                          |          |
|--------------------------|----------|
| Product color            | White    |
| Housing color            | White    |
| RAL Color (most similar) | RAL 9010 |

|                                            |                    |
|--------------------------------------------|--------------------|
| 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...+45 °C                                                                                                                                         |
| Temperature range at storage           | -20...+80 °C                                                                                                                                         |
| Type of connection                     | Screwless terminal, 3-POLE (L, N, PE)                                                                                                                |
| Type of protection                     | IP44                                                                                                                                                 |
| Protection class IK (shock resistance) | IK08                                                                                                                                                 |
| Dimmable                               | Yes                                                                                                                                                  |
| IoT ready                              | Support of Zigbee Data Clusters: 0x0302 (Luminaire Asset Management), 0x0702 (Smart Energy: Metering), 0x0B04 (Electrical Measurement) <sup>1)</sup> |
| Mounting type                          | Surface                                                                                                                                              |
| Mounting location                      | Ceiling                                                                                                                                              |
| Application environment                | Indoor                                                                                                                                               |
| Adjustable                             | No                                                                                                                                                   |
| With light source                      | Yes                                                                                                                                                  |
| Replaceable light source               | No                                                                                                                                                   |

<sup>1)</sup> 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 <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 70000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 70000 h               |
| Lifespan L90/B10 at 25 °C  | 50000 h               |
| Number of switching cycles | 100000                |

<sup>1)</sup> 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              | 1070 mA |
| ECG - Output ripple current | < 5 %   |
| ECG - Length                | 178 mm  |
| ECG - Width                 | 45 mm   |
| ECG - Height                | 25 mm   |

## Emergency lighting

|                                  |                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------|
| Type of Emergency Lighting (EL)  | EL certified driver (0Hz / DC operation) for central battery operation included |
| Type of emergency operation test | None                                                                            |

### Certificates & Standards

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

### Additional product data

|                |                               |
|----------------|-------------------------------|
| Product remark | Available from September 2025 |
| Added function | VIVARES                       |

### EQUIPMENT / ACCESSORIES

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

### Upgrade and replacement components

| Components Light Control                                                            |                                                     |               |
|-------------------------------------------------------------------------------------|-----------------------------------------------------|---------------|
| Product image                                                                       | Product name                                        | EAN           |
|  | MANUAL CONTROL UNIT SELECT DIRECT 100-240 TW RGB ZB | 4099854476334 |
|   | SENSOR DIRECT LS-PD-7 IR CI ZB                      | 4099854476358 |
|  | SWITCH KINETIC DIRECT 4B WT M ZB                    | 4099854589799 |
|  | SWITCH KINETIC DIRECT 4B WT G ZB                    | 4099854589812 |
|  | SWITCH KINETIC DIRECT 4B BK ZB                      | 4099854589836 |

| Product image                                                                       | Product name                   | EAN           |
|-------------------------------------------------------------------------------------|--------------------------------|---------------|
|    | SWITCH KINETIC DIRECT 4B GR ZB | 4099854589850 |
|     | VIVARES ZB CONTROL             | 4058075427488 |
|     | VIVARES ZB L/O SENS 220-240    | 4058075446182 |
|     | VIVARES ZB O SENS 220-240      | 4058075544222 |
|     | VIVARES ZB COUPLER             | 4058075463806 |
|  | VIVARES ZB SENS ADAPTER        | 4058075650107 |

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                                  |
|------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------|
|  | User instruction / safety instructions | User instruction G11230681 Linear Surface P ZB |
|  | Legal information                      | LN SF ZB P IP44                                |
|  | Legal information                      | Safety Insert                                  |
|  | Legal information                      | App Download guide                             |
|  | Legal information                      | Safety insert G11254727                        |

| Documents and certificates                                                         |                                     | Document name                     |
|------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------|
|    | Declarations of conformity          | LN SF ZB P WT IP44                |
|    | Declarations of conformity UKCA     | LN SF ZB P WT IP44                |
|    | EU Data Act                         | SMART ZigBee Lamps and Luminaires |
| Photometric and lighting design files                                              |                                     | Document name                     |
|    | IES file (IES)                      | LN SF 1500 ZB P 45W 840 WT IP44   |
|    | LDT file (Eulumdat)                 | LN SF 1500 ZB P 45W 840 WT IP44   |
|    | UGR file (UGR table)                | LN SF 1500 ZB P 45W 840 WT IP44   |
|    | Light distribution curve type cone  | LN SF 1500 ZB P 45W 840 WT IP44   |
|    | Light distribution curve type polar | LN SF 1500 ZB P 45W 840 WT IP44   |
| CAD/BIM files                                                                      |                                     | Document name                     |
|  | BIM Revit 3D                        | Linear Surface IP44 G2            |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854515156 | Folding box<br>1             | 1,489 mm x 172 mm x 70 mm            | 3550.00 g    | 17.93 dm <sup>3</sup> |
| 4099854515163 | Shipping box<br>4            | 1,503 mm x 302 mm x 200 mm           | 15385.00 g   | 90.78 dm <sup>3</sup> |

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.

## References / Links

– For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

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