

# PRODUCT DATASHEET

## LN SF IP44 1200 P 32W 840 WT

LINEAR SURFACE IP44 | Robust IP44 luminaires with direct light emission and integrated driver for surface applications, up to 137 lm/W

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### Areas of application

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



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### 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

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### 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
- 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

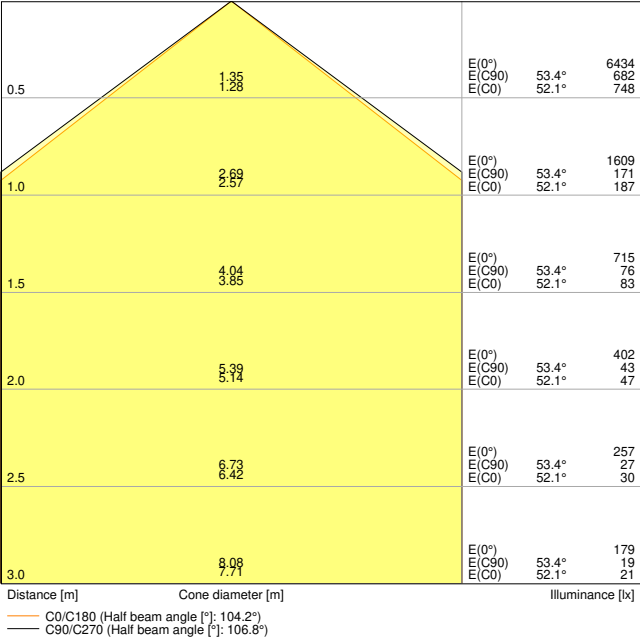
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**TECHNICAL DATA****Electrical data**

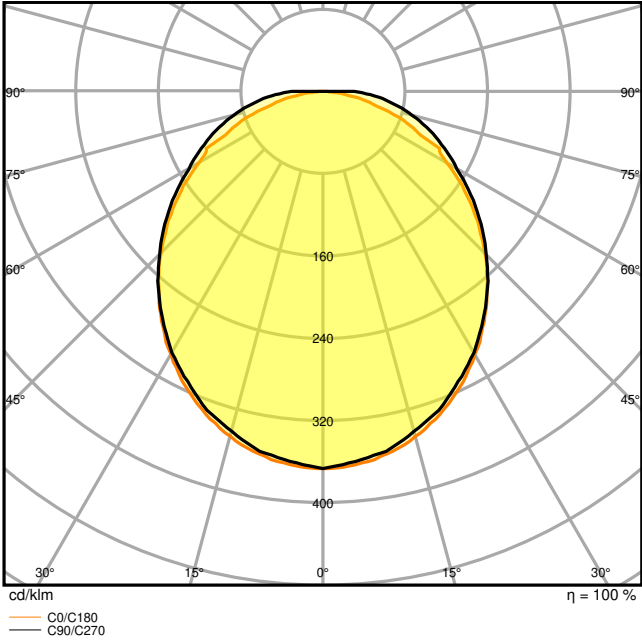
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 32.00 W               |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 50...60 Hz            |
| Nominal current                                             | 150.000 mA            |
| Inrush current                                              | 22 A                  |
| Inrush current time $T_{h50}$                               | 100 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 33                    |
| Max. number of luminaires per miniature circuit breaker C10 | 20                    |
| Max. number of luminaires per miniature circuit breaker C16 | 33                    |
| Power factor $\lambda$                                      | > 0.90                |
| Total harmonic distortion                                   | < 20 %                |
| Protection class                                            | I                     |
| Operating mode                                              | Integrated LED driver |

**Photometrical data**

|                                              |                      |
|----------------------------------------------|----------------------|
| Luminous flux                                | 4384 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>m</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 °                |



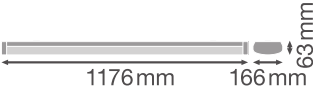
LN SF 1200 P 32W 840 WT IP44



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Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1176.00 mm |
| Width          | 166.00 mm  |
| Height         | 63.00 mm   |
| Product weight | 2600.00 g  |



LN SF 1200 P 32W WT IP44

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, 3-Pole |
| Type of protection                     | IP44                       |
| Protection class IK (shock resistance) | IK08                       |
| Dimmable                               | No                         |
| Mounting type                          | Surface                    |
| Mounting location                      | Wall / Ceiling             |
| Application environment                | Indoor                     |
| Adjustable                             | No                         |
| With light source                      | Yes                        |
| Replaceable light source               | No                         |

### 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  | 41000 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              | 780 mA |
| ECG - Output ripple current | < 10 % |

### Certificates & Standards

|                                                      |                                             |
|------------------------------------------------------|---------------------------------------------|
| Standards                                            | CE / CB / ENEC / TÜV SÜD / UKCA / EAC / EPD |
| Luminaire with limited surface temperature, "D sign" | Yes                                         |
| Ball shot safe                                       | No                                          |
| EPD                                                  | LEDV-00047-V01.01-EN                        |
| Replaceable light source (EPREL)                     | Not replaceable                             |

## EQUIPMENT / ACCESSORIES

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

## DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                             |
|------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------|
|    | User instruction / safety instructions | UI LN SF P                                |
|    | Legal information                      | Light Source Insert LN SF P WT IP44       |
|  | Legal information                      | Legal insert                              |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG        |
|  | Declarations of conformity             | LN SF IP44                                |
|  | Declarations of conformity UKCA        | UKCA Declaration of conformity LN SF IP44 |
|  | Certificates                           | ENEC LN SF IP44 ONOFF                     |
|  | EPD                                    | EPD EN LINEAR SURFACE IP44                |

| Photometric and lighting design files                                              |                     | Document name                |
|------------------------------------------------------------------------------------|---------------------|------------------------------|
|  | IES file (IES)      | LN SF 1200 P 32W 840 WT IP44 |
|  | LDT file (Eulumdat) | LN SF 1200 P 32W 840 WT IP44 |
|  | ULD file (DIALux)   | LN SF 1200 P 32W 840         |

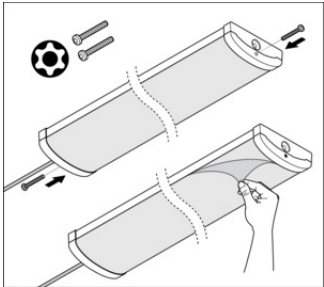
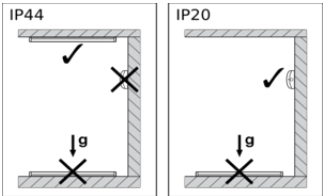
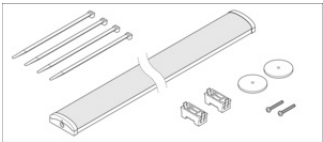
| Photometric and lighting design files                                             |                                     | Document name                            |
|-----------------------------------------------------------------------------------|-------------------------------------|------------------------------------------|
|  | ROLF file (RELUX)                   | LN SF 1200 P 32W 840                     |
|  | UGR file (UGR table)                | LN SF 1200 P 32W 840 WT IP44             |
|  | Light distribution curve type cone  | LN SF 1200 P 32W 840 WT IP44             |
|  | Light distribution curve type polar | LN SF 1200 P 32W 840 WT IP44             |
| CAD/BIM files                                                                     |                                     | Document name                            |
|  | BIM Revit 3D                        | Linear Surface IP44 G2                   |
|  | CAD STEP 3D                         | LN SF IP44 G2 1200                       |
| Tender texts                                                                      |                                     | Document name                            |
|  | Tender documents                    | LINEAR SURFACE IP44 1200 P 32W 840 WT-EN |

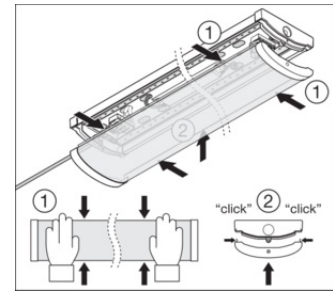
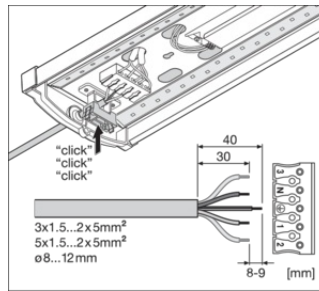
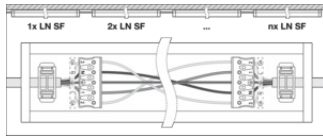
LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075733114 | Folding box<br>1             | 1,189 mm x 172 mm x 70 mm            | 2955.00 g    | 14.32 dm <sup>3</sup> |
| 4058075733121 | Shipping box<br>4            | 1,203 mm x 302 mm x 200 mm           | 12820.00 g   | 72.66 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.

ADDITIONAL CATALOG INFORMATION





## References / Links

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

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