

# PRODUCT DATASHEET

## DP HE DA 1500 P 23W 840 IP65

DAMP PROOF HIGH EFFICIENCY DALI | Robust damp-proof luminaires with very high efficiency and DALI-2 technology



### Areas of application

- Industrial and storage facilities
- DALI installations
- Workshops, assembly lines
- Passages, underpasses
- Parking garages
- Underground parking



### Product benefits

- High compatibility thanks to DALI-2 certification
- Driver suitable for Emergency escape lighting systems acc. to EN 50172
- Uniform light distribution
- Easy upgradeability of light source and driver (EVERLOOP design)
- Enables participation in funding programs in certain countries to replace light source and driver
- Easy installation, no tools required for connection
- Low flicker  $\leq 5\%$
- Energy savings up to 68 % (compared to luminaires that use fluorescent lamps)

### Product features

- Very high luminous efficacy: up to 163 lm/W
- Lifetime (L80/B50): up to 100,000 h (at 25 °C)
- Housing and diffuser material: polycarbonate (PC)
- Compatible to Zhaga Book 26 LED light sources



- Beam angle: 120°
- Protection rating: IP65
- Impact resistance: IK08

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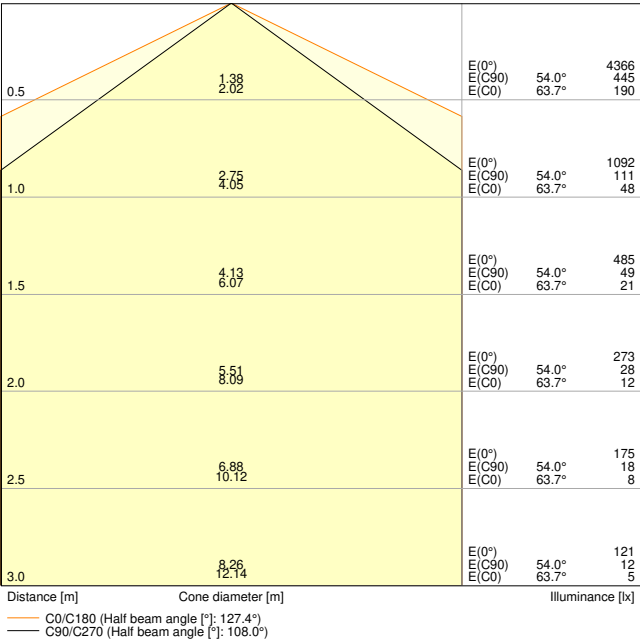
## TECHNICAL DATA

### Electrical data

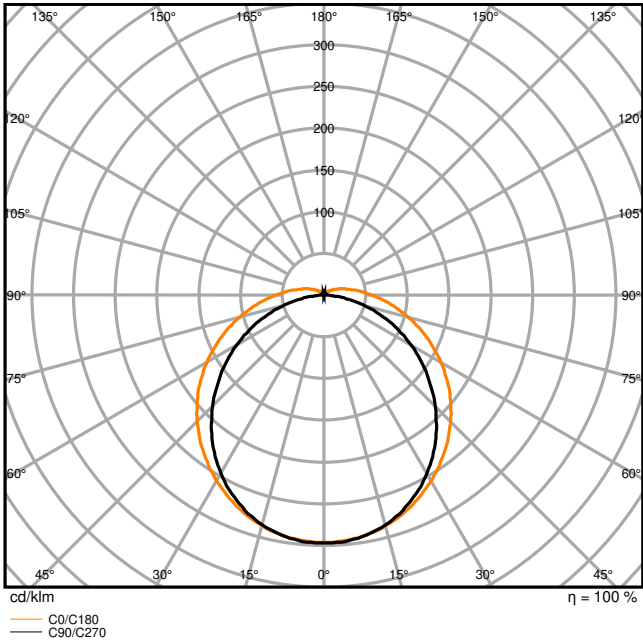
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 23.00 W               |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 0/50/60 Hz            |
| Nominal current                                             | 110 mA                |
| Inrush current                                              | 8.8 A                 |
| Inrush current time $T_{h50}$                               | 400 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 32                    |
| Max. number of luminaires per miniature circuit breaker C10 | 33                    |
| Max. number of luminaires per miniature circuit breaker C16 | 53                    |
| Power factor $\lambda$                                      | > 0.90                |
| Total harmonic distortion                                   | < 15 %                |
| Protection class                                            | I                     |
| Operating mode                                              | Integrated LED driver |
| Dimming interface                                           | DALI-2 / IoT          |

### Photometrical data

|                                              |            |
|----------------------------------------------|------------|
| Luminous flux                                | 3680 lm    |
| Luminous efficacy                            | 160 lm/W   |
| Color temperature                            | 4000 K     |
| Light color (designation)                    | Cool White |
| Color rendering index Ra                     | $\geq 80$  |
| Standard deviation of color matching         | < 4 sdcn   |
| Low flicker                                  | Yes        |
| Flickering metric (Pst LM)                   | < 1        |
| Stroboscope effect metric (SVM)              | < 0.4      |
| Photobiological safety group acc. to EN62778 | RG1        |
| Beam angle                                   | 120 °      |



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Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1500.00 mm |
| Width          | 82.00 mm   |
| Height         | 68.00 mm   |
| Product weight | 1616.00 g  |



Materials & Colors

|                |                    |
|----------------|--------------------|
| Product color  | Gray               |
| Housing color  | Gray               |
| Body material  | Polycarbonate (PC) |
| Cover material | Polycarbonate (PC) |

|                                            |                    |
|--------------------------------------------|--------------------|
| Light emitting surface material            | Polycarbonate (PC) |
| Glow Wire Test according to IEC 60695-2-12 | 850 °C             |
| Mercury content                            | 0.0 mg             |

### Application & Mounting

|                                        |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Ambient temperature range              | -20...+40 °C                                               |
| Temperature range at storage           | -20...+80 °C                                               |
| Type of connection                     | Screwless terminal, 5-Pole                                 |
| Type of protection                     | IP65                                                       |
| Protection class IK (shock resistance) | IK08                                                       |
| Dimmable                               | Yes                                                        |
| Type of dimming                        | DALI2                                                      |
| IoT ready                              | Support of DALI data type PART 251, 252, 253 <sup>1)</sup> |
| Mounting type                          | Suspended/Surface                                          |
| Mounting location                      | Ceiling                                                    |
| Application environment                | Indoor                                                     |
| With light source                      | Yes                                                        |
| Replaceable light source               | Yes                                                        |

<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  | 100000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 100000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 100000 h               |
| Lifespan L90/B10 at 25 °C  | 61000 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              | 150 mA |
| ECG - Output ripple current | < 5 %  |

### 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 / CB / ENEC / UKCA / EAC |
| Luminaire with limited surface temperature, "D sign" | Yes                         |
| Ball shot safe                                       | No                          |
| Replaceable light source (EPREL)                     | Only by an expert           |

## Additional product data

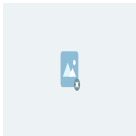
|                |                                                                                                                 |
|----------------|-----------------------------------------------------------------------------------------------------------------|
| Product remark | When used in very cold applications as in cold storage, a special membrane might be required to ensure lifetime |
| Added function | EVERLOOP / VIVARES                                                                                              |

## EQUIPMENT / ACCESSORIES

- Mounting brackets, Antitheft protection, triangle, 2nd cable gland and 2 grommets included
- EVERLOOP luminaire: upgrades and replacements available

## Upgrade and replacement components

| Components Light Source |
|-------------------------|
|-------------------------|

| Product image                                                                      | Product name                      | EAN           |
|------------------------------------------------------------------------------------|-----------------------------------|---------------|
|  | LISOEV 1445X26 64 40W 840 S120 AL | 4099854416774 |

| Components Driver |
|-------------------|
|-------------------|

| Product image | Product name | EAN           |
|---------------|--------------|---------------|
|               |              | 9006210779386 |

## 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 | DAMP PROOF HE DALI IP65            |
|    | Legal information                      | Informationstext 18 Abs 4 ElektroG |
|    | Legal information                      | Safety Insert G11205497            |
|    | Legal information                      | LSI DAMP PROOF HE DALI             |
|    | Legal information                      | Legal Insert G11231526             |
|    | Declarations of conformity             | DP HE                              |
|    | Declarations of conformity UKCA        | DP HE                              |
|    | Certificates                           | ENEC DAMP PROOF HE ON OFF DALI 5TH |
| Photometric and lighting design files                                              |                                        | Document name                      |
|  | IES file (IES)                         | DP HE DA 1500 P 23W 840 IP65       |
|  | LDT file (Eulumdat)                    | DP HE DA 1500 P 23W 840 IP65       |
|  | ULD file (DIALux)                      | DP HE DA 1500 P 23W 840 IP65       |
|  | ROLF file (RELUX)                      | DP HE DA 1500 P 23W 840 IP65       |
|  | UGR file (UGR table)                   | DP HE DA 1500 P 23W 840 IP65       |
|  | Light distribution curve type cone     | DP HE DA 1500 P 23W 840 IP65       |
|  | Light distribution curve type polar    | DP HE DA 1500 P 23W 840 IP65       |
| CAD/BIM files                                                                      |                                        | Document name                      |
|  | BIM Revit 3D                           | DP HE                              |
|  | CAD STEP 3D                            | DP-Gen2 1500                       |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854406911 | Folding box<br>1             | 72 mm x 87 mm x 1,518 mm             | 1803.00 g    | 9.51 dm <sup>3</sup>  |
| 4099854406928 | Shipping box<br>6            | 1,538 mm x 196 mm x 256 mm           | 11551.00 g   | 77.17 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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Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.