

# PRODUCT DATASHEET

## DP HE EL 1500 P 40W ML 840 IP65

**DAMP PROOF HIGH EFFICIENCY EMERGENCY** | Robust damp-proof luminaires with very high efficiency and integrated emergency lighting function



### Areas of application

- Emergency illumination of escape routes
- Antipanic lighting
- Buildings requiring up to 3 h emergency light operation
- Industrial and storage facilities
- Workshops, assembly lines
- Passages, underpasses
- Parking garages
- Underground parking



### Product benefits

- Seamless integration of luminaires with emergency lighting function into general lighting
- Easy wiring thanks to included prewired driver and battery for Emergency lighting function
- 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
- Operation of integrated emergency lighting function with long life LiFePO4 battery with 3h battery discharge time
- Uniform light distribution
- Enables participation in funding programs in certain countries to replace light source and driver
- Easy installation, no tools required for connection
- Energy savings up to 68 % (compared to luminaires that use fluorescent lamps)

### Product features

- Luminaire suitable for normal lighting and emergency lighting
- Certified according to European norms (EN 60598-1:2020; EN 60598-2-22:2021)
- Self-contained luminaires



- Luminous flux in emergency operation mode: 450 lm
- Emergency lighting function: battery discharge time of 3 h
- Function test of emergency lighting: automatic (AT)
- Battery technology: LiFePO4
- Housing and diffuser material: polycarbonate (PC)
- Multi Lumen function: power steps selectable
- Compatible to Zhaga Book 26 LED light sources
- Beam angle: 120°
- Protection rating: IP65

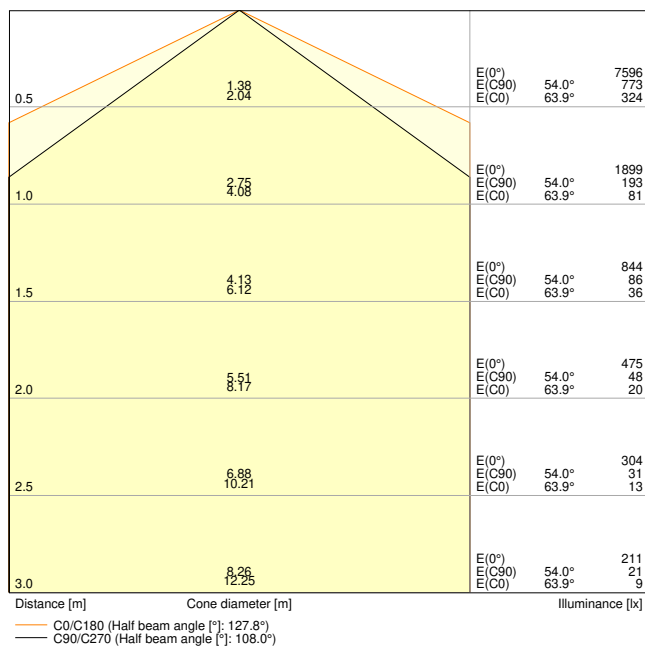
## TECHNICAL DATA

### Electrical data

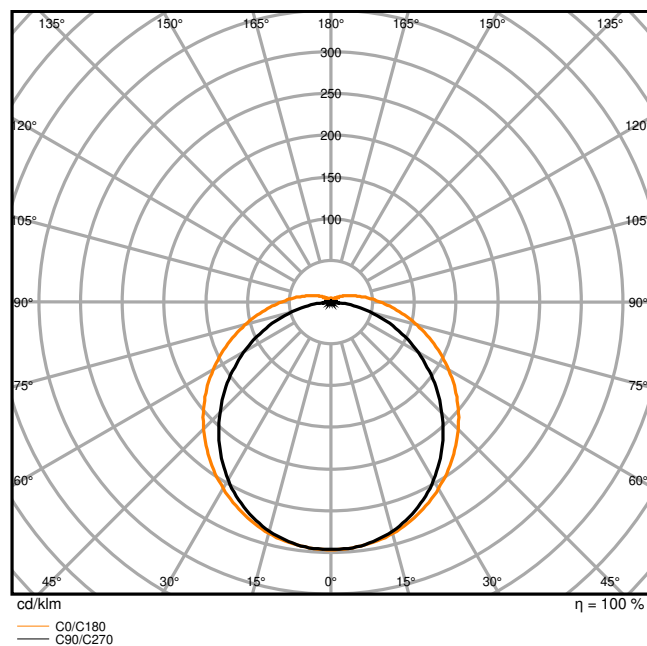
|                                                             |                                                              |
|-------------------------------------------------------------|--------------------------------------------------------------|
| Nominal wattage                                             | 39.8 W / 35.6 W / 31.7 W / 27.5 W / 24.0 W / 20.6 W / 16.6 W |
| Nominal voltage                                             | 220...240 V                                                  |
| Mains frequency                                             | 50/60 Hz                                                     |
| Nominal current                                             | 175/165/150/130/115/100/85 mA                                |
| Inrush current                                              | 9.8 A                                                        |
| Inrush current time $T_{h50}$                               | 565 $\mu$ s                                                  |
| Max. number of luminaires per miniature circuit breaker B16 | 14                                                           |
| Max. number of luminaires per miniature circuit breaker C10 | 15                                                           |
| Max. number of luminaires per miniature circuit breaker C16 | 25                                                           |
| Power factor $\lambda$                                      | > 0.90                                                       |
| Total harmonic distortion                                   | < 15 %                                                       |
| Protection class                                            | I                                                            |
| Operating mode                                              | Integrated LED driver                                        |

### Photometrical data

|                                              |                                                                     |
|----------------------------------------------|---------------------------------------------------------------------|
| Luminous flux                                | 6400 lm / 5700 lm / 5070 lm / 4360 lm / 3810 lm / 3240 lm / 2590 lm |
| Luminous efficacy                            | 161 lm/W / 160 lm/W / 159 lm/W / 157 lm/W / 156 lm/W                |
| Color temperature                            | 4000 K                                                              |
| Light color (designation)                    | Cool White                                                          |
| Color rendering index Ra                     | $\geq 80$                                                           |
| Standard deviation of color matching         | < 4 sdc <sub>m</sub>                                                |
| 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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## Adjustable attributes

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|-----------------|-------------------|---------------|-------------------|
| 39.8 W          | 4000 K            | 6400 lm       | 161 lm/W          |
| 35.6 W          | 4000 K            | 5700 lm       | 160 lm/W          |
| 31.7 W          | 4000 K            | 5070 lm       | 160 lm/W          |
| 27.5 W          | 4000 K            | 4360 lm       | 159 lm/W          |
| 24.0 W          | 4000 K            | 3810 lm       | 159 lm/W          |
| 20.6 W          | 4000 K            | 3240 lm       | 157 lm/W          |
| 16.6 W          | 4000 K            | 2590 lm       | 156 lm/W          |

## Dimensions &amp; Weight

|                |            |
|----------------|------------|
| Length         | 1500.00 mm |
| Width          | 82.00 mm   |
| Height         | 68.00 mm   |
| Product weight | 1930.00 g  |



Materials & Colors

|                                            |                    |
|--------------------------------------------|--------------------|
| Product color                              | Gray               |
| Housing color                              | Gray               |
| RAL Color (most similar)                   | RAL 9018           |
| 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              | +5...+35 °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                               | No                         |
| Mounting type                          | Suspended/Surface          |
| Mounting location                      | Ceiling                    |
| Application environment                | Indoor                     |
| With light source                      | Yes                        |
| Replaceable light source               | Yes                        |

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  | 59000 h                |
| 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)

### Control gear

|                             |        |
|-----------------------------|--------|
| Output current              | 250 mA |
| ECG - Output ripple current | < 5 %  |

### BATTERY

|                             |          |
|-----------------------------|----------|
| Type of Battery             | LiFePO4  |
| Battery size [GMS]          | Others   |
| Nominal voltage of battery  | 3.2 V    |
| Nominal capacity of battery | 6000 mAh |
| Battery charging time       | 24 h     |

### Emergency lighting

|                                            |                                                                   |
|--------------------------------------------|-------------------------------------------------------------------|
| Type of Emergency Lighting (EL)            | EL unit (battery and controller) for decentral operation included |
| Area of emergency application              | Anti-panic lighting / Escape route lighting                       |
| Type of emergency light operation          | Maintained / Non-maintained                                       |
| Type of emergency operation test           | Automatic                                                         |
| Wattage in maintained operation mode       | 40 W                                                              |
| Wattage in emergency operation mode        | 3 W                                                               |
| Luminous flux in maintained operation mode | 6400 lm                                                           |
| Luminous flux in emergency operation mode  | 450 lm                                                            |
| Battery life in emergency operation mode   | 3 h                                                               |

### 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

|                |                         |
|----------------|-------------------------|
| Added function | EVERLOOP / MULTI SELECT |
|----------------|-------------------------|

### 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 |
|---------------|--------------|-----|
|---------------|--------------|-----|

|                                                                                   |                               |               |
|-----------------------------------------------------------------------------------|-------------------------------|---------------|
|  | DR DS-P -40/220-240/475 L NSV | 4099854258497 |
|-----------------------------------------------------------------------------------|-------------------------------|---------------|

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 | G11235944 DAMP PROOF HE EL IP65    |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG |
|  | Legal information                      | Safety Insert G11205497            |
|  | Legal information                      | LSI DAMP PROOF HE EMERGENCY        |
|  | Legal information                      | Legal Insert DP HE EL              |
|  | Declarations of conformity             | DP HE                              |
|  | Declarations of conformity UKCA        | DP HE                              |

| Photometric and lighting design files                                            |                                     | Document name                   |
|----------------------------------------------------------------------------------|-------------------------------------|---------------------------------|
|  | IES file (IES)                      | DP HE EM 1500 P 40W ML 840 IP65 |
|  | LDT file (Eulumdat)                 | DP HE EM 1500 P 40W ML 840 IP65 |
|  | UGR file (UGR table)                | DP HE EM 1500 P 40W ML 840 IP65 |
|  | Light distribution curve type cone  | DP HE EM 1500 P 40W ML 840 IP65 |
|  | Light distribution curve type polar | DP HE EM 1500 P 40W ML 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                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854407079 | Folding box<br>1             | 72 mm x 87 mm x 1,518 mm             | 2117.00 g    | 9.51 dm <sup>3</sup>  |
| 4099854407086 | Shipping box<br>6            | 1,538 mm x 196 mm x 256 mm           | 13435.00 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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