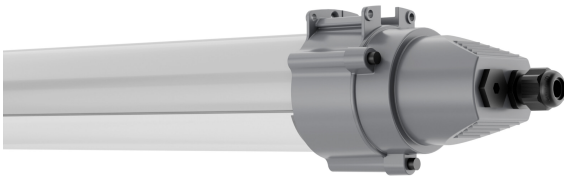


# PRODUCT DATASHEET

## DP MAX EL 1500 S 41W 840 VW IP69

DAMP PROOF MAX EMERGENCY | Tubular damp-proof luminaires with extra high IP, IK protection and integrated emergency lighting function



SUPERIOR  
CLASS

### Areas of application

- Emergency illumination of escape routes
- Antipanic lighting
- Buildings requiring up to 3 h emergency light operation
- Food industry
- Open car parks and underpasses
- Car wash facilities
- Outdoor applications
- Industrial and storage facilities

### 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 in normal operation
- Versatile applications due to resistance to many chemicals and UV light

### Product features

- Luminaire suitable for normal lighting and emergency lighting
- Suitable for emergency central battery installations acc. to EN 60598-2-22
- Self-contained luminaires
- Emergency lighting function: battery discharge time of 3 h
- Function test of emergency lighting: automatic (AT)



- Battery technology: LiFePO<sub>4</sub>
- Type of protection: IP66, IP69 (80 °C)
- Impact resistance: IK10
- Ammonia resistant
- UV-resistant PMMA diffuser
- Compatible to Zhaga Book 7 LED light sources

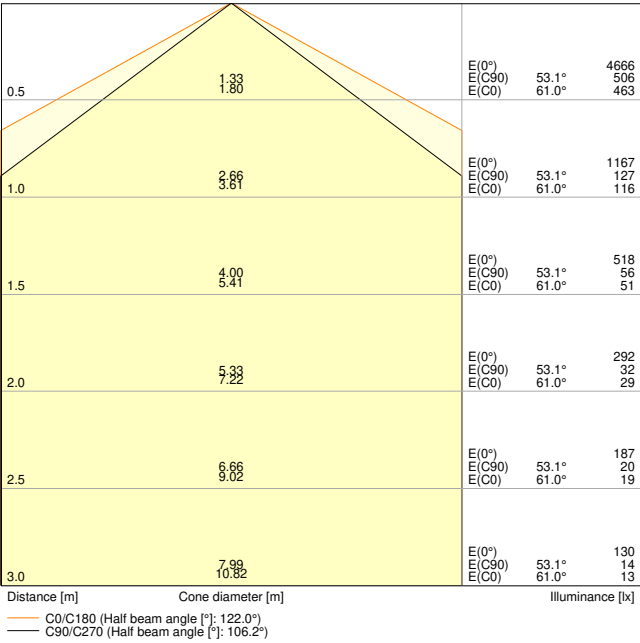
## TECHNICAL DATA

### Electrical data

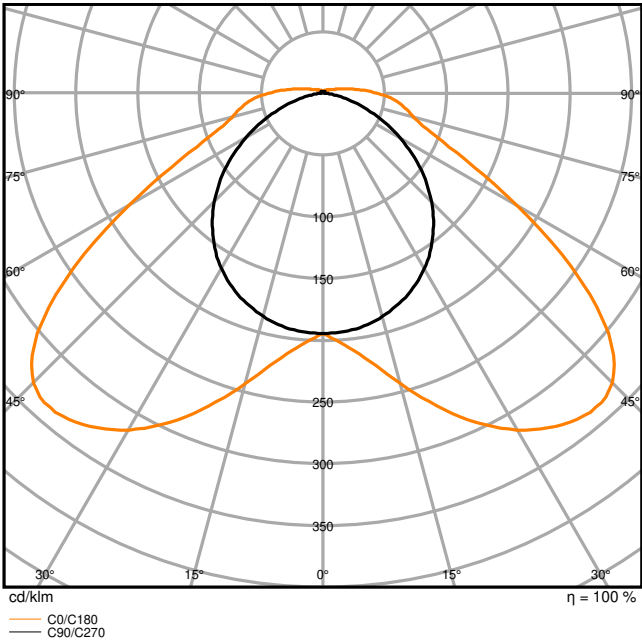
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 41.00 W               |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 0/50/60 Hz            |
| Nominal current                                             | 165.000 mA            |
| Inrush current                                              | 22.64 A               |
| Inrush current time $T_{h50}$                               | 203 $\mu$ s           |
| Max. number of luminaires per miniature circuit breaker B16 | 27                    |
| Max. number of luminaires per miniature circuit breaker C10 | 28                    |
| Max. number of luminaires per miniature circuit breaker C16 | 45                    |
| Power factor $\lambda$                                      | 0.95                  |
| Total harmonic distortion                                   | < 10 %                |
| Protection class                                            | I                     |
| Surge capability (L-N)                                      | 1 kV                  |
| Surge capability (L/N-Ground)                               | 2 kV                  |
| Operating mode                                              | Integrated LED driver |

### Photometrical data

|                                                |               |
|------------------------------------------------|---------------|
| Luminous flux                                  | 6000 lm       |
| Total luminous flux of contained light sources | 6650 lm       |
| Luminous efficacy                              | 146 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)                     | $\leq 1$      |
| Stroboscope effect metric (SVM)                | $\leq 0.4$    |
| Photobiological safety group acc. to EN62778   | RG1           |
| Beam angle                                     | 133 ° x 107 ° |
| UGR                                            | < 25          |



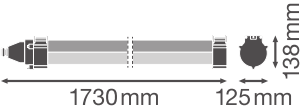
DP MAX EL 1500 S 41W 840 VW IP69 LEDV



DP MAX EL 1500 S 41W 840 VW IP69 LEDV

Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1730.00 mm |
| Width          | 125.00 mm  |
| Height         | 138.00 mm  |
| Product weight | 5400.00 g  |



DP MAX 1500 S 840

Materials & Colors

|                                            |                               |
|--------------------------------------------|-------------------------------|
| Product color                              | Gray                          |
| Housing color                              | Gray                          |
| Body material                              | Polymethylmethacrylate (PMMA) |
| Cover material                             | Polymethylmethacrylate (PMMA) |
| Light emitting surface material            | Polymethylmethacrylate (PMMA) |
| Glow Wire Test according to IEC 60695-2-12 | 650 °C                        |
| Mercury content                            | 0.0 mg                        |

### Application & Mounting

|                                        |                            |
|----------------------------------------|----------------------------|
| Ambient temperature range              | 0...+35 °C                 |
| Temperature range at storage           | -20...+35 °C               |
| Type of connection                     | Screwless terminal, 3-Pole |
| Type of protection                     | IP66~IP69K                 |
| Protection class IK (shock resistance) | IK10                       |
| Dimmable                               | No                         |
| Mounting type                          | Surface/Suspended          |
| Mounting location                      | Ceiling / Wall             |
| Application environment                | Outdoor                    |
| With light source                      | Yes                        |
| Replaceable light source               | No                         |

### Lifespan

|                            |                        |
|----------------------------|------------------------|
| Lifespan L70/B50 at 25 °C  | 100000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 100000 h <sup>1)</sup> |
| Number of switching cycles | > 200000               |

<sup>1)</sup> t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L80 / B50 @ 35 °C (Ta)

### Control gear

|                             |                                      |
|-----------------------------|--------------------------------------|
| Output current              | 75...400 mA                          |
| ECG - Output ripple current | 1.5 %                                |
| Recommended control gear    | OT FIT 100/220...240/700 D NFC IND L |

### BATTERY

|                            |         |
|----------------------------|---------|
| Type of Battery            | LiFePO4 |
| Battery size [GMS]         | Others  |
| Nominal voltage of battery | 3.2 V   |

|                             |          |
|-----------------------------|----------|
| Nominal capacity of battery | 4500 mAh |
| Battery charging time       | < 24 h   |

### Emergency lighting

|                                            |                                             |
|--------------------------------------------|---------------------------------------------|
| 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       | 41 W                                        |
| Wattage in emergency operation mode        | 2.3 W                                       |
| Luminous flux in maintained operation mode | 6000 lm                                     |
| Luminous flux in emergency operation mode  | 500 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)                     | Not replaceable             |

### Accessories Optional

| Product image                                                                      | Product name                       | EAN           |
|------------------------------------------------------------------------------------|------------------------------------|---------------|
|  | DP MAX MOUNTING BRACKET CLAMPS V4A | 4099854583360 |
|  | DP MAX MOUNTING TUBE CLAMPS V4A    | 4099854583384 |

### EQUIPMENT / ACCESSORIES

- Stainless steel clamps and M25 cable gland included

### 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 MAX                        |
|    | Legal information                      | Informationstext 18 Abs 4 ElektroG    |
|    | Legal information                      | DP MAX EL                             |
|    | Legal information                      | Safety Insert G11205497               |
|    | Legal information                      | Legal Insert G11251141                |
|    | Declarations of conformity             | DP MAX Emergency                      |
|    | Declarations of conformity UKCA        | DP MAX Emergency                      |
| Photometric and lighting design files                                              |                                        | Document name                         |
|  | IES file (IES)                         | DP MAX EL 1500 S 41W 840 VW IP69 LEDV |
|  | LDT file (Eulumdat)                    | DP MAX EL 1500 S 41W 840 VW IP69 LEDV |
|  | UGR file (UGR table)                   | DP MAX EL 1500 S 41W 840 VW IP69 LEDV |
|  | Light distribution curve type cone     | DP MAX EL 1500 S 41W 840 VW IP69 LEDV |
|  | Light distribution curve type polar    | DP MAX EL 1500 S 41W 840 VW IP69 LEDV |
| CAD/BIM files                                                                      |                                        | Document name                         |
|  | BIM Revit 3D                           | DP MAX                                |
|  | CAD STEP 3D                            | DP MAX 1500                           |

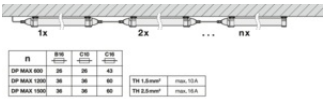
## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854538278 | Shipping box<br>1            | 1,861 mm x 165 mm x 146 mm           | 6644.00 g    | 44.83 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.

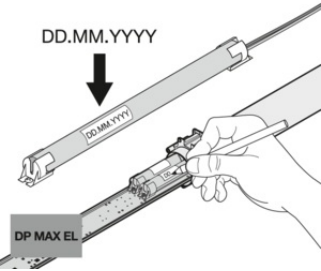
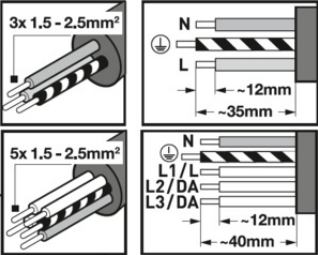
ADDITIONAL CATALOG INFORMATION

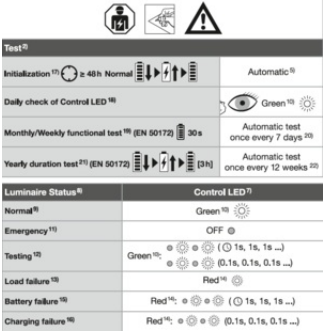




| DP          | W   | H  | D  | W  | H  | D  |
|-------------|-----|----|----|----|----|----|
| DP MAX 800  | 80  | 25 | 25 | 40 | 40 | 40 |
| DP MAX 1200 | 120 | 25 | 25 | 60 | 60 | 60 |
| DP MAX 1500 | 150 | 25 | 25 | 75 | 75 | 75 |

| DP          | W   | H  | D  | W  | H  | D  |
|-------------|-----|----|----|----|----|----|
| DP MAX 800  | 80  | 25 | 25 | 40 | 40 | 40 |
| DP MAX 1200 | 120 | 25 | 25 | 60 | 60 | 60 |
| DP MAX 1500 | 150 | 25 | 25 | 75 | 75 | 75 |





| Test                                                          | Control LED                                       |
|---------------------------------------------------------------|---------------------------------------------------|
| Initialization <sup>(1)</sup> ≥ 48h Normal                    | Automatic <sup>(2)</sup>                          |
| Daily check of Control LED <sup>(3)</sup>                     | Green <sup>(4)</sup>                              |
| Monthly/Weekly functional test <sup>(5)</sup> (EN 50172) 90 s | Automatic test once every 7 days <sup>(6)</sup>   |
| Yearly duration test <sup>(7)</sup> (EN 50172) 3h             | Automatic test once every 12 weeks <sup>(8)</sup> |
| Luminaire Status <sup>(9)</sup>                               | Control LED <sup>(10)</sup>                       |
| Normal <sup>(11)</sup>                                        | Green <sup>(12)</sup>                             |
| Emergency <sup>(13)</sup>                                     | OFF <sup>(14)</sup>                               |
| Testing <sup>(15)</sup>                                       | Green <sup>(16)</sup> (1s, 1s, 1s ...)            |
| Load failure <sup>(17)</sup>                                  | Red <sup>(18)</sup> (0.1s, 0.1s, 0.1s ...)        |
| Battery failure <sup>(19)</sup>                               | Red <sup>(20)</sup> (1s, 1s, 1s ...)              |
| Charging failure <sup>(21)</sup>                              | Red <sup>(22)</sup> (0.1s, 0.1s, 0.1s ...)        |

References / Links

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

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.