

# PRODUCT DATASHEET

## DP FLEX EL 1500 P 42W ML 840 IP66

DAMP PROOF FLEX EMERGENCY | Flexible damp-proof luminaires with 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 in normal operation

### Product features

- High luminous efficacy: up to 165 lm/W
- Luminaire suitable for normal lighting and emergency lighting
- Suitable for emergency central battery installations acc. to EN 60598-2-22
- Self-contained luminaires
- Luminous flux in emergency operation mode: 500 lm
- Emergency lighting function: battery discharge time of 3 h
- Function test of emergency lighting: automatic (AT)



- Battery technology: LiFePO4
- Protection rating: IP66
- Impact resistance: IK08

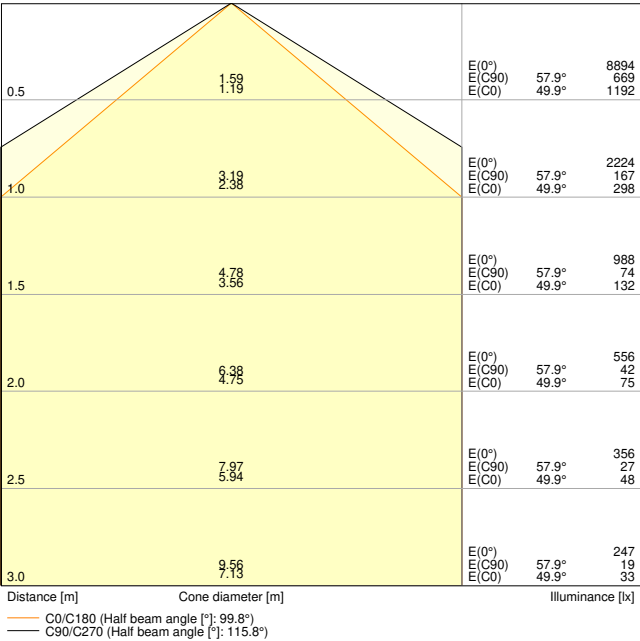
## TECHNICAL DATA

### Electrical data

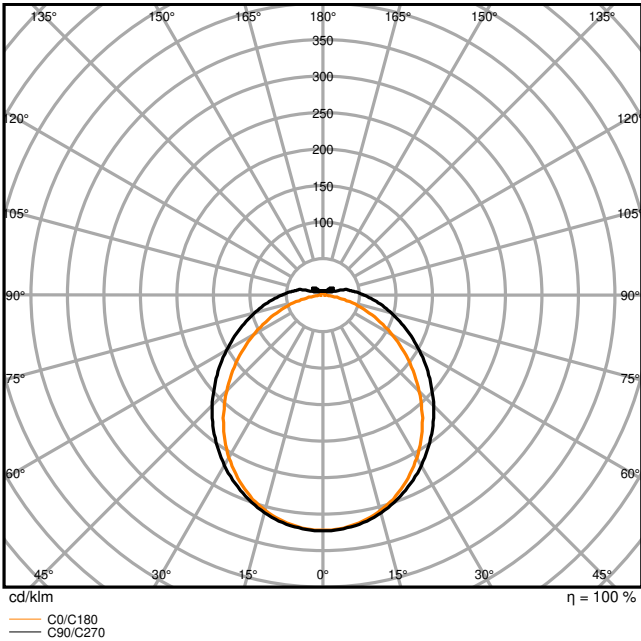
|                                                             |                                |
|-------------------------------------------------------------|--------------------------------|
| Nominal wattage                                             | 42 W / 38 W / 31 W / 23 W      |
| Nominal voltage                                             | 220...240 V                    |
| Mains frequency                                             | 50...60 Hz                     |
| Nominal current                                             | 190mA / 175mA / 144mA / 110 mA |
| Inrush current                                              | 20 A                           |
| Inrush current time $T_{h50}$                               | 212 $\mu$ s                    |
| Max. number of luminaires per miniature circuit breaker B16 | 26                             |
| Max. number of luminaires per miniature circuit breaker C10 | 28                             |
| Max. number of luminaires per miniature circuit breaker C16 | 42                             |
| Power factor $\lambda$                                      | > 0.90                         |
| Total harmonic distortion                                   | $\leq$ 25 %                    |
| Protection class                                            | II                             |
| Surge capability (L-N)                                      | 1000 V                         |
| Operating mode                                              | Integrated LED driver          |

### Photometrical data

|                                              |                                       |
|----------------------------------------------|---------------------------------------|
| Luminous flux                                | 6900 lm / 6300 lm / 5000 lm / 3700 lm |
| Luminous efficacy                            | 164 lm/W / 166 lm/W / 161 lm/W        |
| Color temperature                            | 4000 K                                |
| Light color (designation)                    | Cool White                            |
| Color rendering index Ra                     | $\geq$ 80                             |
| Standard deviation of color matching         | $\leq$ 5 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                                   | 120 °                                 |
| UGR                                          | $\leq$ 25.4                           |



DP FLEX EL 1500 P 42W ML 840 IP66 LEDV



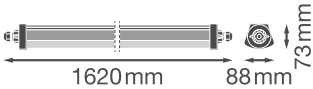
DP FLEX EL 1500 P 42W ML 840 IP66 LEDV

Adjustable attributes

|                  |                               |
|------------------|-------------------------------|
| upper attributes | Array / Array / Array / Array |
|------------------|-------------------------------|

Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1620.00 mm |
| Width          | 88.00 mm   |
| Height         | 73.00 mm   |
| Product weight | 1811.00 g  |



DP FLEX DA/EL

## Materials & Colors

|                                            |                    |
|--------------------------------------------|--------------------|
| Product color                              | Gray               |
| Housing color                              | Gray               |
| RAL Color (most similar)                   | RAL 7045           |
| 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           | +5...+35 °C                |
| Type of connection                     | Screwless terminal, 5-Pole |
| Type of protection                     | IP66                       |
| 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  | 83000 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              | 275/150 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 emergency operation mode       | 3.2 W                                                             |
| Luminous flux in emergency operation mode | 500 lm                                                            |
| Battery life in emergency operation mode  | 3 h                                                               |

### Certificates & Standards

|                                                      |                                       |
|------------------------------------------------------|---------------------------------------|
| Standards                                            | CE / CB / ENEC / TÜV SÜD / 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 | Available from December 2025 |
| Added function | EVERLOOP                     |

### EQUIPMENT / ACCESSORIES

- Stainless steel clamps with safety screws included
- Mounting accessories included (suspension kit, theft protection kit)
- EVERLOOP luminaire: upgrades and replacements available

### Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.

### DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                                       |
|------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------|
|    | User instruction / safety instructions | User Instruction G11254811 DAMP PROOF FLEX EL       |
|    | Legal information                      | Informationstext 18 Abs 4 ElektroG                  |
|    | Legal information                      | Legal Insert DP HE EL                               |
|    | Legal information                      | Safety Insert G11201420                             |
|    | Legal information                      | Light source insert G11255045 DAMP PROOF FLEX EL    |
| Photometric and lighting design files                                              |                                        | Document name                                       |
|    | IES file (IES)                         | DP FLEX EL 1500 P 42W ML 840 IP66 LEDV              |
|    | LDT file (Eulumdat)                    | DP FLEX EL 1500 P 42W ML 840 IP66 LEDV              |
|   | UGR file (UGR table)                   | DP FLEX EL 1500 P 42W ML 840 IP66 LEDV              |
|  | Light distribution curve type cone     | DP FLEX EL 1500 P 42W ML 840 IP66 LEDV              |
|  | Light distribution curve type polar    | DP FLEX EL 1500 P 42W ML 840 IP66 LEDV              |
| CAD/BIM files                                                                      |                                        | Document name                                       |
|  | BIM Revit 3D                           | Damp Proof Flex                                     |
|  | CAD STEP 3D                            | DP FLEX EL 1500                                     |
| Tender texts                                                                       |                                        | Document name                                       |
|  | Tender documents                       | DAMP PROOF FLEX EMERGENCY 1500 P 42W ML 840 IP66-en |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854717871 | Folding box<br>1             | 1,328 mm x 95 mm x 78 mm             | 2043.00 g    | 9.84 dm <sup>3</sup>  |
| 4099854717888 | Shipping box<br>6            | 1,650 mm x 248 mm x 215 mm           | 13825.00 g   | 87.98 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.

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### References / Links

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

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