

# PRODUCT DATASHEET

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

DAMP PROOF FLEX THROUGHWIRING | Flexible damp-proof luminaires with through-wiring and Multi Lumen function

### Areas of application

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



### Product benefits

- Uniform light distribution
- Easy upgradeability of light source and driver (EVERLOOP design)
- Enables participation in funding programs to replace light source and driver
- Easy access to electrical terminal thanks to end caps with twist and lock mechanism
- Easy installation as mounting brackets can be positioned freely on the luminaire
- Tool-free electrical connection due to push button connector
- Energy savings of up to 66 % (compared to luminaires that use fluorescent lamps)
- Low flicker  $\leq 5$  %

### Product features

- High luminous efficacy: up to 165 lm/W
- Lifetime (L80/B50): up to 100,000 h (at 25 °C)
- Housing and diffuser material: polycarbonate (PC)
- Multi Lumen function: power steps selectable



- Through-wiring 3x1.5mm<sup>2</sup> already installed
- Beam angle: 120°
- Protection rating: IP65
- Impact resistance: IK08

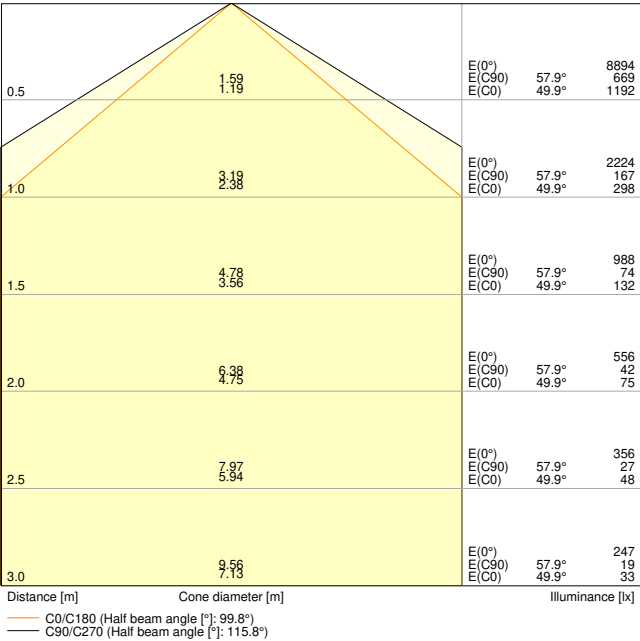
## TECHNICAL DATA

### Electrical data

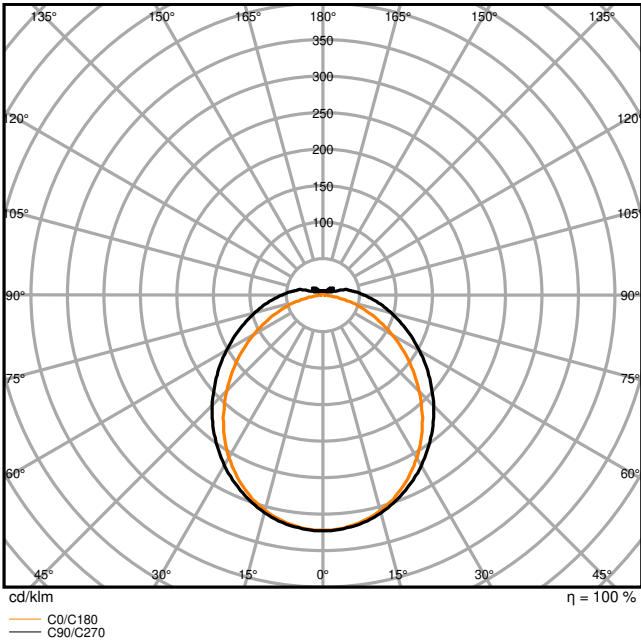
|                                                             |                       |
|-------------------------------------------------------------|-----------------------|
| Nominal wattage                                             | 42 W / 23 W           |
| Nominal voltage                                             | 220...240 V           |
| Mains frequency                                             | 0/50/60 Hz            |
| Nominal current                                             | 187/104 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 $\lambda$                                      | $\geq 0.90$           |
| Total harmonic distortion                                   | $\leq 23$ %           |
| Protection class                                            | II                    |
| Operating mode                                              | Integrated LED driver |

### Photometrical data

|                                              |                           |
|----------------------------------------------|---------------------------|
| Luminous flux                                | 6900 lm / 3700 lm         |
| Luminous efficacy                            | 164 lm/W / 161 lm/W       |
| Color temperature                            | 4000 K                    |
| Light color (designation)                    | Cool White                |
| Color rendering index Ra                     | > 80                      |
| Standard deviation of color matching         | $\leq 5$ sdc <sub>m</sub> |
| Low flicker                                  | Yes                       |
| Flickering metric (Pst LM)                   | $\leq 1$                  |
| Stroboscope effect metric (SVM)              | < 0.4                     |
| Photobiological safety group acc. to EN62778 | RG0                       |
| Beam angle                                   | 120 °                     |



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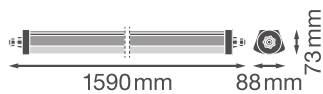
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Adjustable attributes

| Nominal wattage | Color temperature | Luminous flux | Luminous efficacy |
|-----------------|-------------------|---------------|-------------------|
| 42 W            | 4000 K            | 6900 lm       | 164 lm/W          |
| 23 W            | 4000 K            | 3700 lm       | 161 lm/W          |

Dimensions & Weight

|                |            |
|----------------|------------|
| Length         | 1590.00 mm |
| Width          | 88.00 mm   |
| Height         | 73.00 mm   |
| Product weight | 1450.00 g  |



DP FLEX TH 1500 P 42W ML

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              | -30...+50 °C                         |
| Temperature range at storage           | -40...+80 °C                         |
| Type of connection                     | Screwless terminal, 3-Pole (N, E, L) |
| 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                                  |

Lifespan

|                           |                        |
|---------------------------|------------------------|
| Lifespan L70/B50 at 25 °C | 100000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C | 90000 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  |

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              | 275/150 mA |
| ECG - Output ripple current | 5 %        |

### 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 March 2025 / When used in very cold applications as in cold storage, a special membrane might be required to ensure lifetime |
| Added function | EVERLOOP / MULTI SELECT                                                                                                                     |

### 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 | DP FLEX TH                         |
|  | Legal information                      | Safety Insert G11201420            |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG |

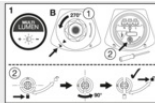
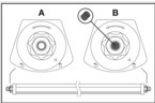
| Documents and certificates                                                          |                                     | Document name                     |
|-------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------|
|    | Legal information                   | LSI DP FLEX TH IP66               |
|    | Declarations of conformity          | DP FLEX TH                        |
|    | Declarations of conformity UKCA     | DP FLEX TH                        |
|    | Certificates                        | DAMP PROOF FLEX TH                |
| Photometric and lighting design files                                               |                                     | Document name                     |
|    | IES file (IES)                      | DP FLEX TH 1500 P 42W ML 840 IP66 |
|    | LDT file (Eulumdat)                 | DP FLEX TH 1500 P 42W ML 840 IP66 |
|    | ULD file (DIALux)                   | DP FLEX TH 1500 P 42W ML 840 IP66 |
|   | ROLF file (RELUX)                   | DP FLEX TH 1500 P 42W ML 840 IP66 |
|  | UGR file (UGR table)                | DP FLEX TH 1500 P 42W ML 840 IP66 |
|  | Light distribution curve type cone  | DP FLEX TH 1500 P 42W ML 840 IP66 |
|  | Light distribution curve type polar | DP FLEX TH 1500 P 42W ML 840 IP66 |
| CAD/BIM files                                                                       |                                     | Document name                     |
|  | BIM Revit 3D                        | Damp Proof Flex                   |
|  | CAD STEP 3D                         | DP FLEX TH 1500                   |

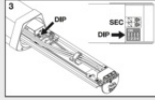
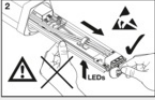
LOGISTICAL DATA

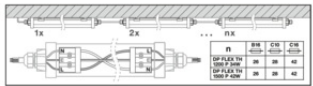
| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4099854440663 | Folding box<br>1             | 1,328 mm x 95 mm x 78 mm             | 1682.00 g    | 9.84 dm³  |
| 4099854440670 | Shipping box<br>6            | 1,650 mm x 248 mm x 215 mm           | 11660.00 g   | 87.98 dm³ |

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.

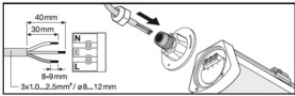
ADDITIONAL CATALOG INFORMATION







| Model                               | Power | Length | Width | Height | Weight | Material | Color | Finish | Notes |
|-------------------------------------|-------|--------|-------|--------|--------|----------|-------|--------|-------|
| DP FLEX TH 1500 P 30W ML 840 IP66   | 30W   | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 42W ML 840 IP66   | 42W   | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 60W ML 840 IP66   | 60W   | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 80W ML 840 IP66   | 80W   | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 100W ML 840 IP66  | 100W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 120W ML 840 IP66  | 120W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 150W ML 840 IP66  | 150W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 200W ML 840 IP66  | 200W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 250W ML 840 IP66  | 250W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 300W ML 840 IP66  | 300W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 350W ML 840 IP66  | 350W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 400W ML 840 IP66  | 400W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 450W ML 840 IP66  | 450W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 500W ML 840 IP66  | 500W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 550W ML 840 IP66  | 550W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 600W ML 840 IP66  | 600W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 650W ML 840 IP66  | 650W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 700W ML 840 IP66  | 700W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 750W ML 840 IP66  | 750W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 800W ML 840 IP66  | 800W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 850W ML 840 IP66  | 850W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 900W ML 840 IP66  | 900W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 950W ML 840 IP66  | 950W  | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |
| DP FLEX TH 1500 P 1000W ML 840 IP66 | 1000W | 1500mm | 28mm  | 28mm   | 42g    | Aluminum | White | Matte  |       |



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.