



PRODUCT DATASHEET

DL IP44 DN DN 190 18W 840 2070LM WT

DL DOWNLIGHT IP44 GEN2 | Downlights with IP44 grade



Areas of application

- Direct replacement for luminaires with compact fluorescent lamps
- General illumination
- Public areas
- Stairways
- Corridors
- Shops
- Bathrooms

Product benefits

- High luminous efficacy
- Very homogenous light
- Simple installation thanks to integrated driver

Product features

- Luminous efficacy: up to 115 lm/W
- Type of protection: IP44
- Available in black and white color
- Lifetime (L70/B50): up to 35,000 h (at 25 °C)



TECHNICAL DATA

Electrical data

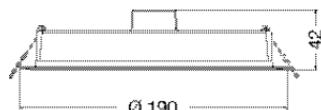
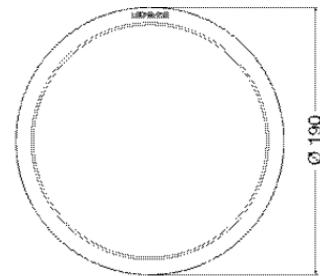
| | |
|---|-----------------------|
| Nominal wattage | 18.00 W |
| Nominal voltage | 220...240 V |
| Mains frequency | 50...60 Hz |
| Nominal current | 140.000 mA |
| Inrush current | 5.2 A |
| Inrush current time T_{h50} | 264 μ s |
| Max. number of luminaires per miniature circuit breaker B16 | 49 |
| Max. number of luminaires per miniature circuit breaker C10 | 48 |
| Max. number of luminaires per miniature circuit breaker C16 | 76 |
| Power factor λ | > 0.5 |
| Total harmonic distortion | < 20 % |
| Protection class | II |
| Operating mode | Integrated LED driver |

Photometrical data

| | |
|--|------------|
| Luminous flux | 2070 lm |
| Luminous efficacy | 115 lm/W |
| Color temperature | 4000 K |
| Light color (designation) | Cool White |
| Color rendering index Ra | > 80 |
| Standard deviation of color matching | < 6 sdcm |
| Flickering metric (Pst LM) | - |
| Stroboscope effect metric (SVM) | - |
| Photobiological safety group acc. to EN62778 | RG0 |
| Photobiological safety group acc. to EN62471 | RG0 |
| Beam angle | 100 ° |

Dimensions & Weight

| | |
|----------------|-----------|
| Diameter | 190.00 mm |
| Height | 42.00 mm |
| Product weight | 170.00 g |



DL IP44 DN 190 18W

Materials & Colors

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

Application & Mounting

| | |
|--|---------------|
| Ambient temperature range | -20...+40 °C |
| Temperature range at storage | -20...+80 °C |
| Type of connection | Cable, 2-pole |
| Type of protection | IP44 |
| Protection class IK (shock resistance) | IK03 |
| Dimmable | No |
| Mounting type | Recessed |
| Mounting location | Ceiling |
| Application environment | Indoor |
| With light source | Yes |
| Replaceable light source | No |

Lifespan

| | |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C | 35000 h ¹⁾ |
| 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 | 120 mA |
| ECG - Output ripple current | < 5 % |

Certificates & Standards

| | |
|--|-----------------|
| Luminaire with limited surface temperature, "D sign" | No |
| Ball shot safe | No |
| Replaceable light source (EPREL) | Not replaceable |

Additional product data

| | |
|-----------------------|--------------|
| Number of illuminants | Not relevant |
|-----------------------|--------------|

Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- The external flexible cable or cord of this luminaire cannot be replaced; if the cord is damaged, the luminaire must be disposed of.

DOWNLOAD DATA

| Documents and certificates | Document name |
|---|------------------|
|  User instruction / safety instructions | DL IP44 DN WT/BK |
|  Addon technical information | DL IP44 DN WT/BK |
|  Legal information | DL IP44 DN WT/BK |
|  Declarations of conformity | DL IP44 DN |
|  Declarations of conformity UKCA | DL IP44 DN |

| Photometric and lighting design files | Document name |
|---|----------------------------------|
|  IES file (IES) | DL IP44 DN 190 18W 840 2070lm WT |
|  LDT file (Eulumdat) | DL IP44 DN 190 18W 840 2070lm WT |

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854561368 | Folding box 1 | 195 mm x 51 mm x 195 mm | 214.00 g | 1.94 dm ³ |
| 4099854561375 | Shipping box 10 | 400 mm x 269 mm x 211 mm | 2539.00 g | 22.70 dm ³ |

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.

DISCLAIMER

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