

# PRODUCT DATASHEET

## DL IP44 DN DN 190 18W 840 2070LM WT

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

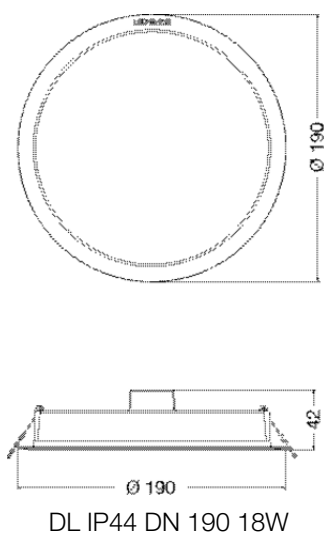
Nominal wattage	18.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	140.000 mA
Inrush current	5.2 A
Inrush current time $T_{h50}$	264 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	49
Max. number of luminaires per miniature circuit breaker C10	48
Max. number of luminaires per miniature circuit breaker C16	76
Power factor $\lambda$	> 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 sdc <sub>cm</sub>
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



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 <sup>1)</sup>
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	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
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## 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 <sup>3</sup>
4099854561375	Shipping box 10	400 mm x 269 mm x 211 mm	2539.00 g	22.70 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.

DISCLAIMER

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