

# PRODUCT DATASHEET

## DL IP44 DN 165 13W 840 WT

DOWNLIGHT IP44 | Downlights with IP44 grade



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### Areas of application

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

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### Product benefits

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

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### Product features

- Type of protection: IP44
- Luminous efficacy: 100 lm/W



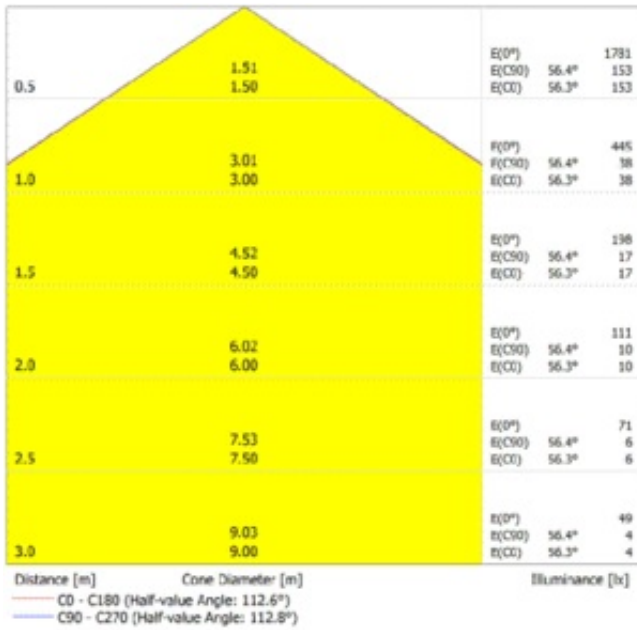
## TECHNICAL DATA

### Electrical data

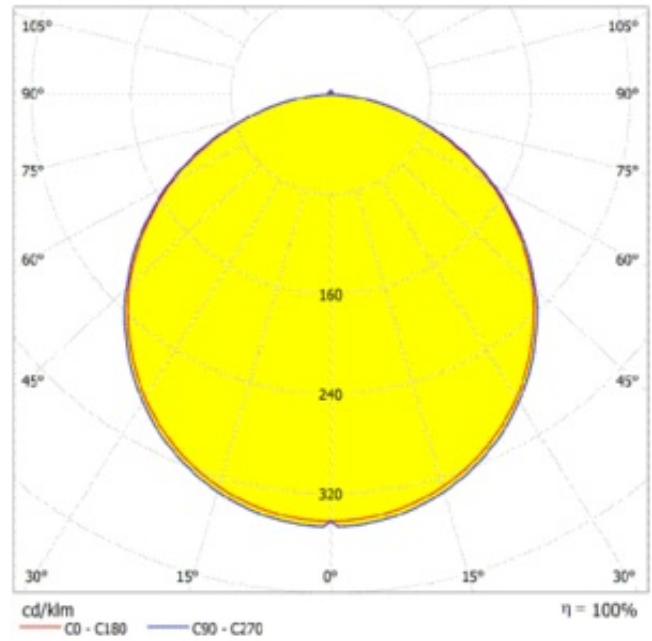
Nominal wattage	13.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	100.000 mA
Inrush current	2.9 A
Inrush current time $T_{h50}$	250 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	112
Max. number of luminaires per miniature circuit breaker C10	60
Max. number of luminaires per miniature circuit breaker C16	96
Power factor $\lambda$	0.50
Total harmonic distortion	< 90 %
Protection class	II
Operating mode	Integrated LED driver

### Photometrical data

Luminous flux	1300 lm
Luminous efficacy	100 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	< 6 sdc <sub>m</sub>
Low flicker	Yes
Photobiological safety group acc. to EN62778	RG0
Photobiological safety group acc. to EN62471	RG0
Beam angle	100 °



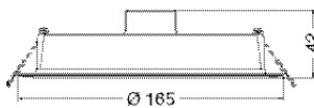
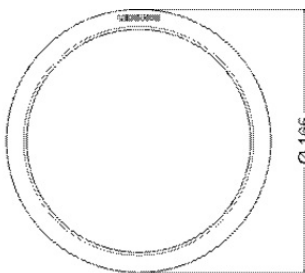
DL IP44 DN 165 13W



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Dimensions & Weight

Diameter	165.00 mm
Height	42.00 mm
Product weight	140.00 g



DL IP44 DN 165 13W

## 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
Mounting diameter	150 mm
Mounting depth	40 mm
Adjustable	No
With light source	Yes

## Lifespan

Lifespan L70/B50 at 25 °C	20000 h <sup>1)</sup>
Lifespan L80/B10 at 25 °C	18000 h <sup>1)</sup>
Lifespan L80/B50 at 25 °C	18000 h
Lifespan L90/B10 at 25 °C	15000 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	95 mA
ECG - Output ripple current	< 5 %

## Certificates & Standards

Standards	CE / EMC / ROHS 2.0 / REACH
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
Replaceable light source (EPREL)	Not replaceable







Accessories Optional



Product image	Product name	EAN
	DL IP44 FRAME DN 165 WT	4058075709928






EQUIPMENT / ACCESSORIES



– Surface mounting frames available as accessories


DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	DL IP44 DN 115 8W 830 WT
	Legal information	Informationstext 18 Abs 4 ElektroG
	Legal information	DL IP44 DN 115 8W 830 WT
	Legal information	DL IP44 DN WT
	Declarations of conformity	CE Declaration of Conformity DOWNLIGHT IP44 DN WT
	Declarations of conformity UKCA	UKCA Declaration of Conformity DOWNLIGHT IP44 DN WT

Photometric and lighting design files		Document name
	IES file (IES)	DL IP44 DN 165 13W 840 WT
	LDT file (Eulumdat)	DL IP44 DN 165 13W 840 WT

Photometric and lighting design files		Document name
	ULD file (DIALux)	DL IP44 DN 165 13W 840 WT
	ROLF file (RELUX)	DL IP44 DN 165 13W 840 WT
	UGR file (UGR table)	DL IP44 DN 165 13W
	Light distribution curve type cone	DL IP44 DN 165 13W
	Light distribution curve type polar	DL IP44 DN 165 13W

CAD/BIM files		Document name
	BIM Revit 3D	DL IP44
	CAD STEP 3D	DL IP44 DN 165

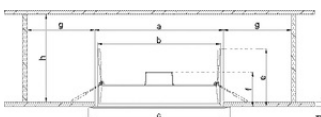
Tender texts		Document name
	Tender documents	DOWNLIGHT IP44 DN 165 13W 840 WT-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075703087	Folding box 1	170 mm x 51 mm x 170 mm	184.00 g	1.47 dm <sup>3</sup>
4058075703094	Shipping box 10	350 mm x 269 mm x 186 mm	2113.00 g	17.51 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



Model	a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	g [mm]	h [mm]
DL IP44 DN165	170	51	170	3-25	68	42	-102	-170
DL IP44 DN115	110	51	110	3-25	68	42	-102	-110
DL IP44 DN165	170	51	170	3-25	68	42	-102	-170
DL IP44 DN190	170	51	190	3-25	68	42	-102	-170
DL IP44 DN215	200	51	215	3-25	68	42	-102	-170

## DISCLAIMER

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