

## START eco Downlight 165mm Round Surface

*START eco Downlight 165 950lm 840 Surface*  
0054106



### Product features

- START eco Downlight is an integrated LED surface mounted downlight with built-in non dimmable driver; 12W; 950Lm; 79Lm/W; 4000K.



### PRODUCT OVERVIEW

Product name	START eco Downlight 165 950lm 840 Surface
Technology	LED
Housing	PC Polycarbonate
Mount	Ceiling surface mounting
General application	Retail
ETIM Class	EC002892
Warranty	3 years
Fixture luminous flux (lm)	950
Luminaire efficacy (lm/W)	79
Colour temperature (K)	4000
Light colour	Neutral White
CRI (Ra)	80
Colour Variation Initial (SDCM)	SDCM6
Beam Angle (°)	110
Glare control	< 28
Photobiological Risk Group	RG0
Total power consumption (W)	12
Electrical protection	Class II
Dimmable	No
Dimming method	N/A
LED Flickering Rate	Medium (21% - 40%)
Housing colour	RAL 9003 - Signal white
IP rating	IP20
IK rating	IK02
Product EAN number	5410288541068

### DATA TABLE

#### General data

Product name	START eco Downlight 165 950lm 840 Surface
Technology	LED
Housing	PC Polycarbonate
Mount	Ceiling surface mounting

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General application	Retail
Operating temperature range (°C)	-20°C...+40°C
Performance ambient temperature Tq (°C)	25
ETIM Class	EC002892
Warranty	3 years

### Optical data

Fixture luminous flux (lm)	950
Luminaire efficacy (lm/W)	79
Colour temperature (K)	4000
Light colour	Neutral White
CRI (Ra)	80
Colour Variation Initial (SDCM)	SDCM6
Beam Angle (°)	110
Distribution type	Symmetric
Glare control	< 28
Photobiological Risk Group	RG0

### Electrical data

Total power consumption (W)	12
Mains voltage (V)	220-240V
Lamp power factor	0.5
THD (at 230 V, 50 Hz, full load, at 100% dimming level) xx.x %	115.0
Electrical protection	Class II
Control gear required	No
Dimmable	No
Dimming method	N/A
Drive current (mA)	85
Inrush Current (A)	9
Inrush Duration (µs)	180
Glow Wire Test (°C)	650
Energy Efficiency Class (A->G) of contained light source	F
Nominal Frequency (Hz)	50/60Hz
LED Flickering Rate	Medium (21% - 40%)
Max. Luminaires per 10A C Breaker	109
Max. Luminaires per 13A C Breaker	142
Max. Luminaires per 16A C Breaker	175
Max. Luminaires per 20A C Breaker	220
Max. Luminaires per 10A B Breaker	64
Max. Luminaires per 13A B Breaker	84
Max. Luminaires per 16A B Breaker	104
Max. Luminaires per 20A B Breaker	131

### Lifetime data

Lifespan L70 B50	30000
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#### Physical data

Housing colour	RAL 9003 - Signal white
IP rating	IP20
IK rating	IK02
Diffuser finish	Opal
Diffuser material	PC Polycarbonate
Nominal Product Length (mm)	165
Nominal Product Width (mm)	165
Nominal Product Height (mm)	34
Nominal Product Diameter (mm)	165
Weight (kg)	0.22

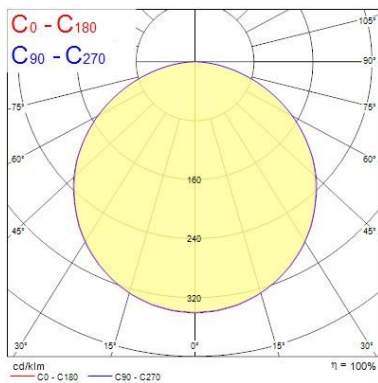
#### Packaging

Single packaging type	Carton
Product EAN number	5410288541068
Packaging single length / height (cm)	16.8
Packaging single width (cm)	4.8
Packaging single depth (cm)	17.0
DUN14 (outer)	15410288541065
Units per outer package	12
Packaging outer length / height (cm)	52.0
Packaging outer width (cm)	18.0
Packaging outer depth (cm)	22.0

#### Safety data

Optimal operating condition (°C)	-20-40
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## PHOTOMETRY



Distance [m]	Cone diameter [m]	E <sub>0°</sub> [lx]	E <sub>15°</sub> [lx]	E <sub>30°</sub> [lx]	E <sub>45°</sub> [lx]	E <sub>60°</sub> [lx]	E <sub>75°</sub> [lx]	E <sub>90°</sub> [lx]
0.5	1.56	1237	103	57.3°	57.3°	57.3°	57.3°	57.3°
1.0	3.12	324	28	57.3°	57.3°	57.3°	57.3°	57.3°
1.5	4.67	144	11	57.3°	57.3°	57.3°	57.3°	57.3°
2.0	6.23	81	6	57.3°	57.3°	57.3°	57.3°	57.3°
2.5	7.79	52	4	57.3°	57.3°	57.3°	57.3°	57.3°
3.0	9.35	36	3	57.3°	57.3°	57.3°	57.3°	57.3°

Distance [m]      Cone diameter [m]      Illuminance [lx]

— C0 - C180 (Half beam angle: 114.6°)

— C90 - C270 (Half beam angle: 114.6°)

## TECHNICAL DRAWINGS

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