

## START eco Surface IP44

START ECO SURFACE IP44 DUAL TONE 2000LM 830/40 DIM

0043123



### Product features

- Ceiling / wall luminaire with integrated LED. Perfect solution for hallways, circulation spaces or foyer. Even and uniform light distribution with a halo lighting effect on the wall surface. Body Size diameter 360mm. Power 24W, output 2000 lumens. Supplied with LED driver (leading edge/trailing edge dimmable) and color light temperature switch that enables to choose between 3000K and 4000K. IK03 PMMA diffuser. Low maintenance with 30,000 hours LED life expectancy



### PRODUCT OVERVIEW

Product name	START ECO SURFACE IP44 DUAL TONE 2000LM 830/40 DIM
Technology	LED
Housing	Aluminium
Mount	Ceiling surface mounting
Environment	Indoor
General application	Residential & Consumer
ETIM Class	EC002892
E-number FI	4170567
Warranty	3 years
Fixture luminous flux (lm)	2000
Luminaire efficacy (lm/W)	83
Colour temperature (K)	4000
Light colour	Amber White or Neutral White
CRI (Ra)	80
Colour Variation Initial (SDCM)	SDCM6
Colour Consistency (SDCM)	5
Beam Angle (°)	120
Glare control	< 28
Photobiological Risk Group	RG1
Total power consumption (W)	24
Electrical protection	Class I
Dimmable	Yes
Minimum dimming level (%)	10
Housing colour	White
IP rating	IP44
IK rating	IK03
Product EAN number	5410288431239

### DATA TABLE

General data

Product name	START ECO SURFACE IP44 DUAL TONE 2000LM 830/40 DIM
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Technology	LED
Housing	Aluminium
Mount	Ceiling surface mounting
Environment	Indoor
General application	Residential & Consumer
Operating temperature range (°C)	-20°C - 40°C
Performance ambient temperature Tq (°C)	25
ETIM Class	EC002892
E-number FI	4170567
Warranty	3 years

### Optical data

Fixture luminous flux (lm)	2000
Luminaire efficacy (lm/W)	83
Colour temperature (K)	4000
Correlated colour temperature range (K)	3000 - 4000
Light colour	Amber White or Neutral White
CRI (Ra)	80
Colour Variation Initial (SDCM)	SDCM6
Colour Consistency (SDCM)	5
Beam Angle (°)	120
Distribution type	Direct
Glare control	< 28
Photobiological Risk Group	RG1

### Electrical data

Total power consumption (W)	24
Mains voltage (V)	220-240V~
Lamp power factor	0.8
Electrical protection	Class I
Dimmable	Yes
Minimum dimming level (%)	10
Drive current (mA)	270
Inrush Current (A)	4.64
Inrush Duration (µs)	5
Glow Wire Test (°C)	650
Nominal Frequency (Hz)	50Hz
Max. Luminaires per 10A C Breaker	10
Max. Luminaires per 13A C Breaker	13
Max. Luminaires per 16A C Breaker	16
Max. Luminaires per 20A C Breaker	20

### Lifetime data

Lifespan L70 B50	30000
Lifespan L80 B50	18700

### Physical data

Housing colour	White
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IP rating	IP44
IK rating	IK03
Diffuser finish	Opal
Diffuser material	PMMA Acrylic
Nominal Product Length (mm)	360
Nominal Product Width (mm)	360
Nominal Product Height (mm)	100
Weight (kg)	0.65

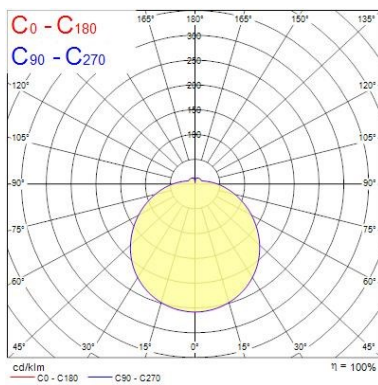
### Packaging

Single packaging type	Carton
Product EAN number	5410288431239
Packaging single length / height (cm)	39.0
Packaging single width (cm)	10.5
Packaging single depth (cm)	39.0
DUN14 (outer)	15410288431236
Units per outer package	6
Packaging outer length / height (cm)	66.5
Packaging outer width (cm)	40.0
Packaging outer depth (cm)	42.2

### Safety data

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



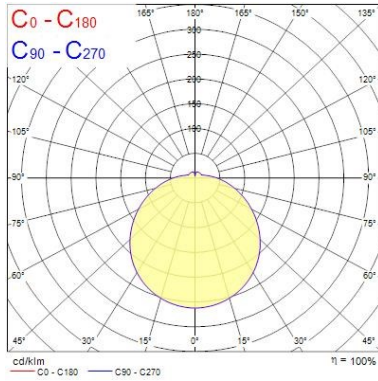
Distance [m]	Cone diameter [m]	E <sub>0</sub> [lx]	E <sub>1</sub> [lx]	E <sub>2</sub> [lx]	Illuminance [lx]
0.5	1.80	2099	525	209	121
1.0	3.59	525	131	52	30
1.5	5.39	233	59	23	15
2.0	7.19	131	33	13	8
2.5	8.98	84	21	8	5
3.0	10.78	58	15	6	3

Distance [m] Cone diameter [m] Illuminance [lx]  
C0 - C180 (Half beam angle: 121.8°)

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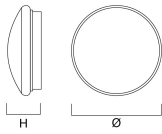
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Distance [m]	Cone diameter [m]	Beam angle [°]	Beam angle [°]	Beam angle [°]	Beam angle [°]	Illuminance [lx]
0.5	1.83 1.85	123.2°	61.6°	1900	157	104
1.0	3.65 3.70	123.2°	61.6°	480	217	26
1.5	5.48 5.55	123.2°	61.6°	213	12	12
2.0	7.31 7.40	123.2°	61.6°	130	7	6
2.5	9.13 9.25	123.2°	61.6°	77	4	4
3.0	10.96 11.10	123.2°	61.6°	63	3	3

Distance [m]      Cone diameter [m]      Illuminance [lx]  
 C0 - C180 (Half beam angle: 123.2°)  
 C90 - C270 (Half beam angle: 122.6°)

## TECHNICAL DRAWINGS



Version	Ø	H
6W	180	75
12W	250	80
17/18W	330	96
24W	360	100