

## Start eco Surface IP44 DualTone

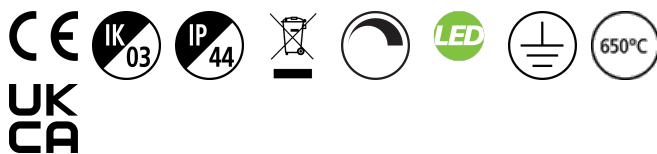
START ECO SURFACE IP44 2050LM DIM 830/840 DUALTONE

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### 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. Besa mounting box compatible, hole distance 51mm. DualTone functionality enables switch between 3000K and 4000K colour temperatures. Power 24W, output 2050 lumens (4000k). Dimmable, leading/trailing edge. IK03, IP44. Low maintenance with 30,000 hours LED life expectancy. Energy Class: A++, A+, A



### PRODUCT OVERVIEW

Product name	START ECO SURFACE IP44 2050LM DIM 830/840 DUALTONE
Technology	LED
Housing	Steel
General application	Hospitality
ETIM Class	EC002892
Warranty	3 years
Fixture luminous flux (lm)	2050
Luminaire efficacy (lm/W)	90
Colour temperature (K)	4000
Light colour	Amber White or Neutral White
CRI (Ra)	80
Colour Variation Initial (SDCM)	SDCM6
Beam Angle (°)	120
Photobiological Risk Group	RG0
Electrical protection	Class I
Dimmable	Yes
Minimum dimming level (%)	10
LED Flickering Rate	High (>40%)
Housing colour	White
IP rating	IP44
IK rating	IK03
Product EAN number	5410288434346

### DATA TABLE

#### General data

Product name	START ECO SURFACE IP44 2050LM DIM 830/840 DUALTONE
Technology	LED
Housing	Steel
General application	Hospitality
Operating temperature range (°C)	-20°C - 40°C
Performance ambient temperature Tq (°C)	25

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ETIM Class	EC002892
Warranty	3 years

### Optical data

Fixture luminous flux (lm)	2050
Luminaire efficacy (lm/W)	90
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
Beam Angle (°)	120
Distribution type	Diffuse
Photobiological Risk Group	RG0

### Electrical data

Mains voltage (V)	220-240V~
Lamp power factor	0.9
Electrical protection	Class I
Dimmable	Yes
Minimum dimming level (%)	10
Drive current (mA)	174
Inrush Current (A)	3
Inrush Duration (µs)	30
Glow Wire Test (°C)	650
Nominal Frequency (Hz)	50/60Hz
LED Flickering Rate	High (>40%)
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
Max. Luminaires per 10A B Breaker	6
Max. Luminaires per 13A B Breaker	8
Max. Luminaires per 16A B Breaker	10
Max. Luminaires per 20A B Breaker	12

### Lifetime data

Lifespan L70 B50	30000
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### Physical data

Housing colour	White
IP rating	IP44
IK rating	IK03
Diffuser finish	Opal
Diffuser material	Polypropylene
Nominal Product Length (mm)	360
Nominal Product Width (mm)	360
Nominal Product Height (mm)	100
Nominal Product Diameter (mm)	360

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Weight (kg) 0.6

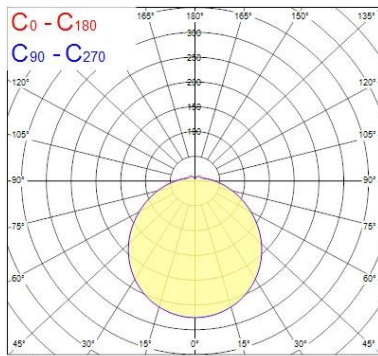
### Packaging

Single packaging type	Carton
Product EAN number	5410288434346
Packaging single length / height (cm)	39.0
Packaging single width (cm)	10.5
Packaging single depth (cm)	39.0
DUN14 (outer)	15410288434343
Units per outer package	6
Packaging outer length / height (cm)	65.6
Packaging outer width (cm)	40.0
Packaging outer depth (cm)	40.5

### Safety data

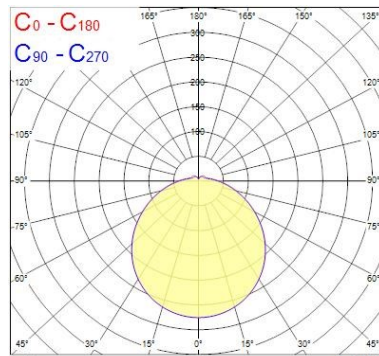
Optimal operating condition (°C)	-20-40
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## PHOTOMETRY



Distance [m]	Cone diameter [m]	Beam type	E <sub>0</sub> [lx]	E <sub>10</sub> [lx]	E <sub>30</sub> [lx]
0.5	1.64 1.66	C0 - C180 C90 - C270	2288 189	58.7 158	58.9 158
1.0	3.29 3.32	C0 - C180 C90 - C270	568 40	58.7 39	58.9 39
1.5	4.93 4.97	C0 - C180 C90 - C270	251 18	58.7 17	58.9 17
2.0	6.58 6.63	C0 - C180 C90 - C270	141 10	58.7 10	58.9 10
2.5	8.22 8.29	C0 - C180 C90 - C270	90 8	58.7 8	58.9 8
3.0	9.87 9.95	C0 - C180 C90 - C270	63 4	58.7 4	58.9 4

Distance [m] Cone diameter [m] Illuminance [lx]  
 — C0 - C180 (Half beam angle: 117.8°)  
 — C90 - C270 (Half beam angle: 117.4°)



Distance [m]	Cone diameter [m]	Beam type	E <sub>0</sub> [lx]	E <sub>10</sub> [lx]	E <sub>30</sub> [lx]
0.5	1.64 1.66	C0 - C180 C90 - C270	2121 149	58.7 148	58.9 148
1.0	3.29 3.32	C0 - C180 C90 - C270	530 37	58.7 37	58.9 37
1.5	4.93 4.97	C0 - C180 C90 - C270	236 17	58.7 16	58.9 16
2.0	6.58 6.63	C0 - C180 C90 - C270	133 9	58.7 9	58.9 9
2.5	8.22 8.29	C0 - C180 C90 - C270	85 8	58.7 8	58.9 8
3.0	9.87 9.95	C0 - C180 C90 - C270	59 4	58.7 4	58.9 4

Distance [m] Cone diameter [m] Illuminance [lx]  
 — C0 - C180 (Half beam angle: 117.8°)  
 — C90 - C270 (Half beam angle: 117.4°)

## TECHNICAL DRAWINGS

## Start eco Surface IP44 DualTone

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