

Features

• Ceiling / wall luminaire with integrated LED. Perfect solution for hallways, circulation spaces or foyers. Body Size diameter 400mm. Besa mounting box compatible, hole distance 51 & 78mm. DualTone functionality enables switch between 3000K and 4000K colour temperatures. With the help of DIP Switch multiple lumen outputs can be set up in 4 steps (4000K: 24W 2500lm, 28W 3000lm, 32W 3500lm, 36W 4000lm). Efficacy up to 111lm/W. Non-dimmable. Equipped with integrated self test 3 hours LiFePO4 emergency kit. Lumen output in emergency mode: 400lm (3000K) / 430lm (4000K). IK03, IP54. Low maintenance with lifespan 120,000 hours L70:B50.

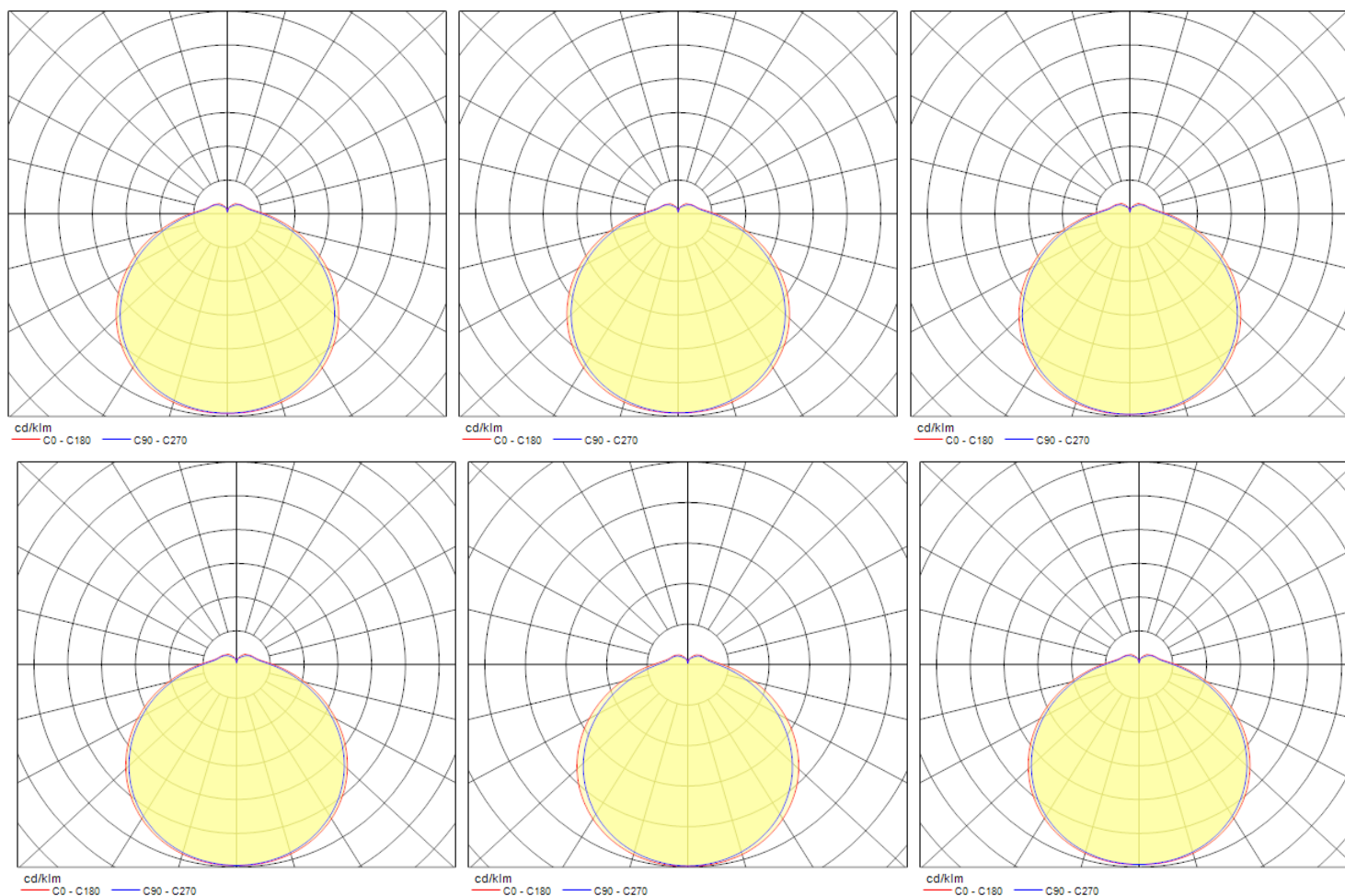
Product Overview

Product name	START Surface IP54 2500-4000lm 830/840 EM
Technology	LED
Cap/Base	N/A
Housing	PC Polycarbonate
Mount	Ceiling surface mounting
General application	Hospitality, Museums & Galleries
ETIM Class	EC002892
E-number FI	4279515
Fixture luminous flux (lm)	4000
Luminaire efficacy (lm/W)	111
Light colour	Warm White or Neutral White
CRI (Ra)	80
Colour Variation Initial (SDCM)	6
Beam Angle (°)	120
Photobiological Risk Group	RG1
Luminous flux (emergency) (lm)	430

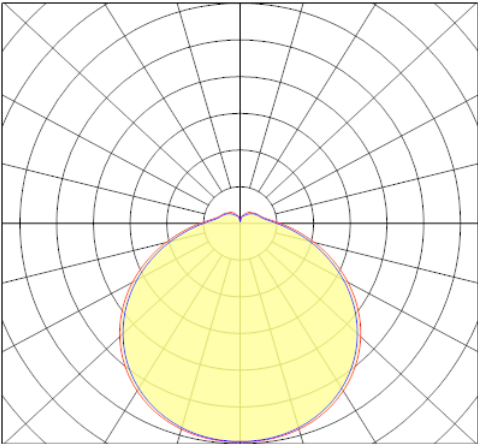
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Total power consumption (W)	36
Electrical protection	Class II
Control gear type	LED driver constant current
Dimmable	No
LED Flickering Rate	Low (6% - 20%)
Housing colour	RAL9003
IP rating	IP54
IK rating	IK03
Product EAN number	5410288434131
Warranty	5 years
Dimming method	N/A

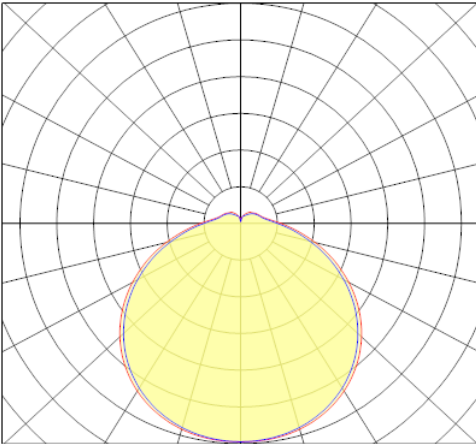
Photometry



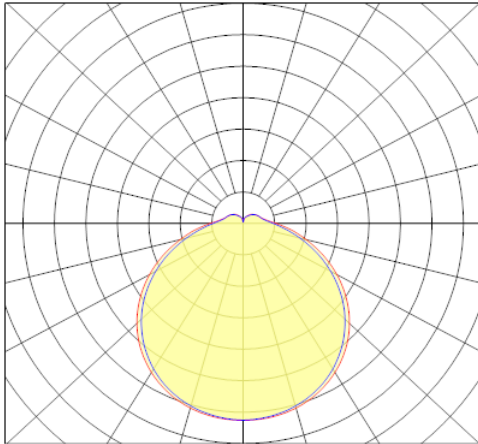
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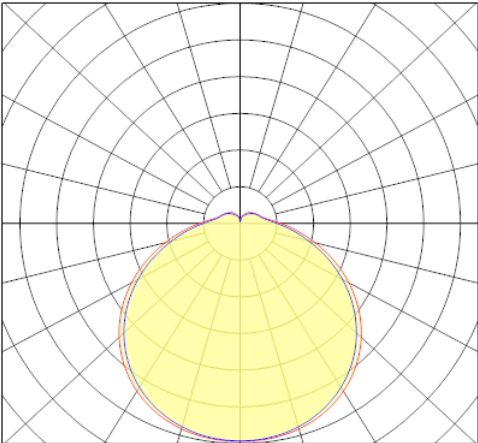
cd/klm
C0 - C180 C90 - C270



cd/klm
C0 - C180 C90 - C270



cd/klm
C0 - C180 C90 - C270



cd/klm
C0 - C180 C90 - C270

0.5	2.04 2.25	E(0°) E(C90) E(C0)	63.8° 63.8° 66.0°	3545 151 129
1.0	4.08 4.49	E(0°) E(C90) E(C0)	63.8° 63.8° 66.0°	886 38 30
1.5	6.12 6.74	E(0°) E(C90) E(C0)	63.8° 63.8° 66.0°	394 17 13
2.0	8.17 8.96	E(0°) E(C90) E(C0)	63.8° 63.8° 66.0°	222 9 7
2.5	10.21 11.23	E(0°) E(C90) E(C0)	63.8° 63.8° 66.0°	142 6 5
3.0	12.25 13.48	E(0°) E(C90) E(C0)	63.8° 63.8° 66.0°	98 4 3

Distance [m] Cone diameter [m]
C0 - C180 (Half beam angle: 132.0°)
C90 - C270 (Half beam angle: 127.8°)

0.5	2.05 2.26	E(0°) E(C90) E(C0)	64.0° 64.0° 66.1°	3067 129 102
1.0	4.10 4.51	E(0°) E(C90) E(C0)	64.0° 64.0° 66.1°	767 32 26
1.5	6.15 6.77	E(0°) E(C90) E(C0)	64.0° 64.0° 66.1°	341 14 11
2.0	8.20 9.03	E(0°) E(C90) E(C0)	64.0° 64.0° 66.1°	192 8 6
2.5	10.25 11.28	E(0°) E(C90) E(C0)	64.0° 64.0° 66.1°	123 5 4
3.0	12.30 13.54	E(0°) E(C90) E(C0)	64.0° 64.0° 66.1°	85 4 3

Distance [m] Cone diameter [m]
C0 - C180 (Half beam angle: 132.2°)
C90 - C270 (Half beam angle: 128.0°)

0.5	2.03 2.20	E(0°) E(C90) E(C0)	63.8° 63.8° 65.6°	2661 115 94
1.0	4.06 4.41	E(0°) E(C90) E(C0)	63.8° 63.8° 65.6°	665 29 24
1.5	6.10 6.61	E(0°) E(C90) E(C0)	63.8° 63.8° 65.6°	296 13 10
2.0	8.13 8.82	E(0°) E(C90) E(C0)	63.8° 63.8° 65.6°	166 7 6
2.5	10.16 11.02	E(0°) E(C90) E(C0)	63.8° 63.8° 65.6°	106 5 4
3.0	12.19 13.23	E(0°) E(C90) E(C0)	63.8° 63.8° 65.6°	74 3 3

Distance [m] Cone diameter [m]
C0 - C180 (Half beam angle: 131.2°)
C90 - C270 (Half beam angle: 127.6°)

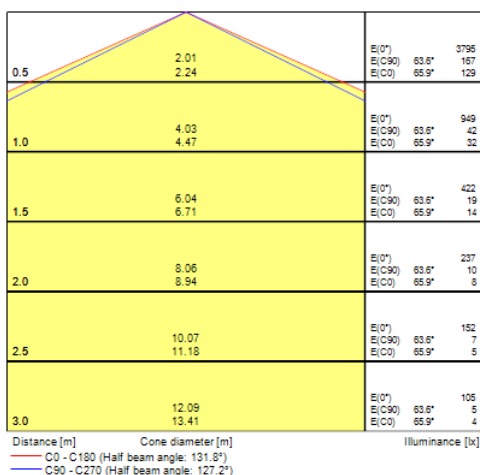
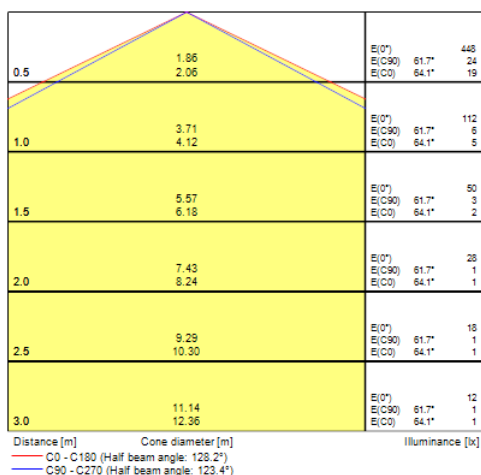
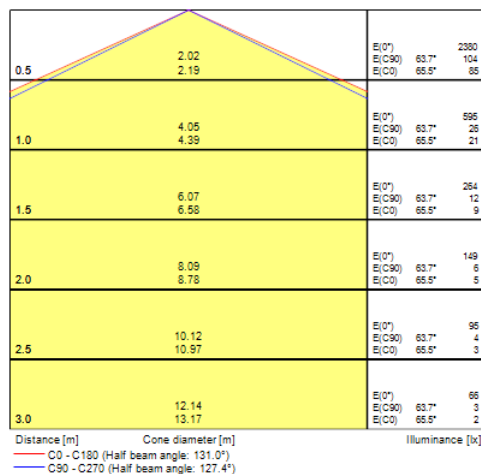
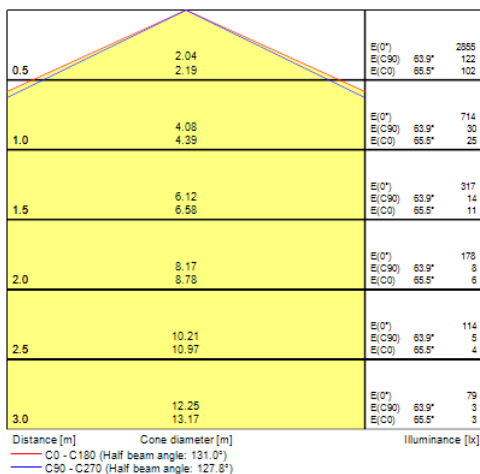
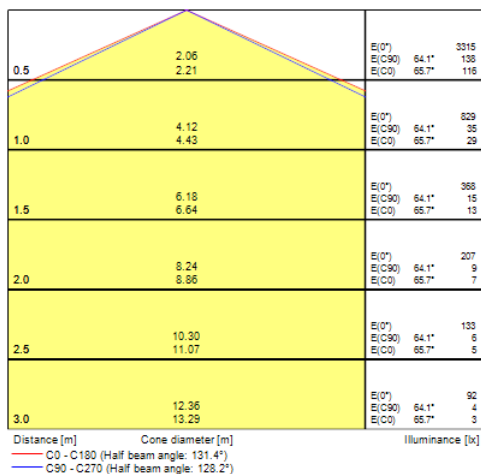
0.5	2.03 2.19	E(0°) E(C90) E(C0)	63.8° 63.8° 65.5°	2238 97 80
1.0	4.06 4.39	E(0°) E(C90) E(C0)	63.8° 63.8° 65.5°	560 24 20
1.5	6.10 6.58	E(0°) E(C90) E(C0)	63.8° 63.8° 65.5°	249 11 9
2.0	8.13 8.78	E(0°) E(C90) E(C0)	63.8° 63.8° 65.5°	140 6 5
2.5	10.16 10.97	E(0°) E(C90) E(C0)	63.8° 63.8° 65.5°	90 4 3
3.0	12.19 13.17	E(0°) E(C90) E(C0)	63.8° 63.8° 65.5°	62 3 2

Distance [m] Cone diameter [m]
C0 - C180 (Half beam angle: 131.0°)
C90 - C270 (Half beam angle: 127.5°)

0.5	1.85 2.14	E(0°) E(C90) E(C0)	61.6° 61.6° 65.0°	422 23 16
1.0	3.70 4.29	E(0°) E(C90) E(C0)	61.6° 61.6° 65.0°	106 6 4
1.5	5.55 6.43	E(0°) E(C90) E(C0)	61.6° 61.6° 65.0°	47 3 2
2.0	7.40 8.58	E(0°) E(C90) E(C0)	61.6° 61.6° 65.0°	26 1 1
2.5	9.25 10.72	E(0°) E(C90) E(C0)	61.6° 61.6° 65.0°	17 1 1
3.0	11.10 12.87	E(0°) E(C90) E(C0)	61.6° 61.6° 65.0°	12 1 0

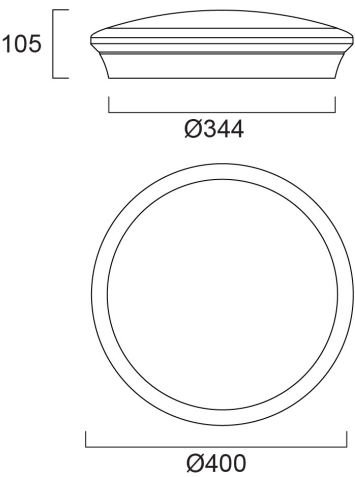
Distance [m] Cone diameter [m]
C0 - C180 (Half beam angle: 130.0°)
C90 - C270 (Half beam angle: 123.2°)

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Technical drawings



Data table

GENERAL DATA

Product name	START Surface IP54 2500-4000lm 830/840 EM
Technology	LED
Cap/Base	N/A
Housing	PC Polycarbonate
Mount	Ceiling surface mounting
General application	Hospitality, Museums & Galleries
Operating temperature range (°C)	1°C...+40°C
ETIM Class	EC002892
E-number FI	4279515
Warranty	5 years

OPTICAL DATA

Fixture luminous flux (lm)	4000
Luminaire efficacy (lm/W)	111
Light colour	Warm White or Neutral White
CRI (Ra)	80

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Colour Variation Initial (SDCM)	6
Beam Angle (°)	120
Distribution type	Symmetric
Photobiological Risk Group	RG1
Luminous flux (emergency) (lm)	430

ELECTRICAL DATA

Total power consumption (W)	36
Primary Supply/Product voltage - min (V)	220.0
Primary Supply/Product voltage - max (V)	240.0
Lamp power factor	0.8
THD (at 230 V, 50 Hz, full load, at 100% dimming level) ≤ xx.x %	20
Electrical protection	Class II
Control gear required	No
Control gear type	LED driver constant current
No. Of switching cycles before premature failures	>100000
Dimmable	No
Dimming method	N/A
Drive current (mA)	176
Inrush Current (A)	18
Inrush Duration (µs)	100
Energy Efficiency Class (A->G) of contained light source	C
Nominal Frequency (Hz)	50/60Hz
LED Flickering Rate	Low (6% - 20%)
Max. products per 10A C Breaker	31
Max. products per 13A C Breaker	40
Max. products per 16A C Breaker	50
Max. products per 20A C Breaker	62
Max. products per 10A B Breaker	19
Max. products per 13A B Breaker	24
Max. products per 16A B Breaker	30
Max. products per 20A B Breaker	37

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Connectable conductor cross section - Max (mm ²)	1.5
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LIFETIME DATA

Lifespan L70 B50	120000
Lifespan L70 B20	120000
Lifespan L70 B10	120000
Lifespan L80 B50	105000
Lifespan L80 B20	95000
Lifespan L80 B10	89000
Lifespan L90 B50	51000
Lifespan L90 B20	47000
Lifespan L90 B10	44000

PHYSICAL DATA

Housing colour	RAL9003
IP rating	IP54
IK rating	IK03
Diffuser finish	Opal
Diffuser material	PMMA Acrylic
Nominal Product Height (mm)	105
Nominal Product Diameter (mm)	400
Weight (kg)	1.339

PACKAGING

Product EAN number	5410288434131
Packaging single length / height (cm)	43.4
Packaging single width (cm)	11.8
Packaging single depth (cm)	43.4
DUN14 (inner)	15410288434138
Units per outer package	5
Packaging outer length / height (cm)	59.4
Packaging outer width (cm)	45.1
Packaging outer depth (cm)	45.5



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SAFETY DATA

Glow Wire Test (°C)	850
Optimal operating condition (°C)	1-40
Special purpose lamp	No
Dry applications use only	No
Suitable for household illumination	No