

Sizes in cm



Materials: Powder-coated finish aluminium injection luminaire.
Anodised aluminium extrusion internal heat sink.
Tempered optical glass seal and vulcanised extruded silicone water-resistant seals.
Colours: light grey (RAL 9006).
(other colours available to order)
Size (cm): 109 x 20 x 10
Weight (kg): 15
Surface exposed to wind (m²): 0.29

Installation: Suitable for pole attachment using a range of fastening accessories.
Component delivered in two parts: luminaire and fastening attachments.
(for further information about accessories, log onto the website www.santacole.com)

Applicable standards: UNE-EN 60529, UNE-EN 60598, UNE-EN 55015, UNE-EN 61000, UNE-EN 50102, UNE-EN 62031
UL 1598, UL 8750, (file E-336377)
Protections: IP66 (protection from dust ingress and high-pressure water jets), suitable for wet locations, IK08 (protection against external mechanical impacts)
Electrical rating: Class I (CE), Non Class II (UL)

Light source: High-efficiency optical unit with 24, 48 or 72 LEDs
Nominal lamp power (W): 24 - 144
System power (W): 28 - 157
Operating current (mA): 350, 500 or 700
Colour temperature (K°): 3000 / 4000
Luminous flux and efficacy:
3000K
CRI min80
Luminous flux (lm): 2802 - 18514
Luminous efficacy (lm/W): 100 - 118

4000K
CRI typ70
Luminous flux (lm): 3081 - 19613
Luminous efficacy (lm/W): 110 - 124

Light distributions:

Asymmetrical: Type II, Type III o Type IV (according to IESNA classification)

ULOR (Upper Light Output Ratio): 0 %

Power supply: constant current driver

Regulation:

1-10V / Dali / Header flux regulation / Programmable automatic regulation

The LED luminaire may be regulated using a number of differing interfaces. These controls allow specific, individual control of light, reducing energy consumption in a sustainable manner.

Constant light output (CLO)

Assures a constant lumen output from the luminaire throughout its lifetime.

Power factor (cos ϕ):

N° LEDs	Current (mA)	P (W) 100%, CLO 80%	P (W) 70%, CLO 80%
24	350	0.97	0.95
	500	0.98	0.97
	700	0.98	0.98
48	350	0.97	0.95
	500	0.98	0.97
	700	0.99	0.98
72	350	0.93	0.89
	500	0.96	0.93
	700	0.97	0.96

Operating voltage: 220-240V 50Hz (CE) / 120-277V 60Hz (UL)

Wire:

0,6/1 kV 3x1,5 mm²

0,6/1 kV 5x1,5 mm² (prog.)

Temperature operating range Ta (°C): between -25 and 30 (700mA)

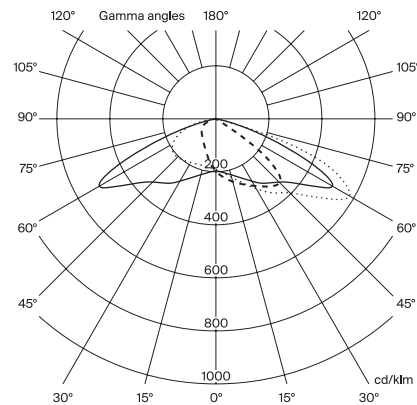
Lifetime: TM21 L70 (10k) > 60.000 h

Thanks to an optimised thermal design, the luminous flux is maintained up to 70% after 60,000 h.

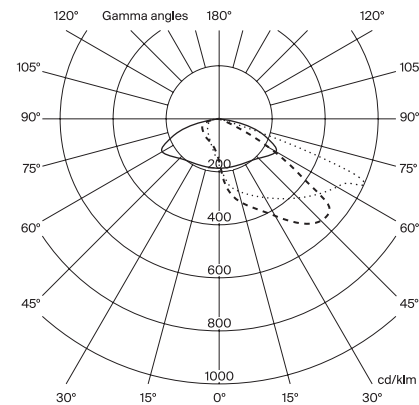
Under exceptional cases when the ambient temperature is excessive, the output may be reduced using the (NTC) active control system that ensures the right operating temperature is maintained.

Reference	N° LEDs	T°colour (K)	Current (mA)	Lamp power (W)	System power (W)	IESNA TII optics		IESNA TIII optics		IESNA TIV optics	
						Luminous flux (lm)	Efficacy (lm/W)	Luminous flux (lm)	Efficacy (lm/W)	Luminous flux (lm)	Efficacy (lm/W)
RAFL24A1xx	24	3000K CRI min80	350	24	28	2802	100	3248	116	3017	108
RAFL24B1xx			500	34	40	3962	99	4591	115	4266	107
RAFL24C1xx			700	48	56	5218	93	6047	108	5618	100
RAFL24A2xx		4000K CRI typ70	350	24	28	3081	110	3571	128	3317	118
RAFL24B2xx			500	34	40	4356	109	5048	126	4690	117
RAFL24C2xx			700	48	56	5652	101	6550	117	6085	109
RAFL48A1xx	48	3000K CRI min80	350	48	53	5905	111	6844	129	6358	120
RAFL48B1xx			500	68	75	8129	108	9421	126	8752	117
RAFL48C1xx			700	96	106	10706	101	12408	117	11527	109
RAFL48A2xx		4000K CRI typ70	350	48	53	6300	119	7302	138	6783	128
RAFL48B2xx			500	68	75	8697	116	10079	134	9363	125
RAFL48C2xx			700	96	106	11284	106	13077	123	12149	115
RAFL72A1xx	72	3000K CRI min80	350	72	78	8824	113	10226	131	9500	122
RAFL72B1xx			500	103	112	12130	108	14057	126	13059	117
RAFL72C1xx			700	144	157	15975	102	18514	118	17200	110
RAFL72A2xx		4000K CRI typ70	350	72	78	9415	121	10911	140	10136	130
RAFL72B2xx			500	103	112	12977	116	15039	134	13971	125
RAFL72C2xx			700	144	157	16837	107	19513	124	18128	115

Asymmetric
Distribution TII
LOR 100%
ULOR 0%±3%
Max. intensity 573.26 cd/klm



Asymmetric
Distribution TIII
LOR 100%
ULOR 0%±3%
Max. intensity 593.70 cd/klm



Asymmetric
Distribution TIV
LOR 100%
ULOR 0%±3%
Max. intensity 579.34 cd/klm

