Rama Liviana
Luminaire
Gonzalo Milá, 2012

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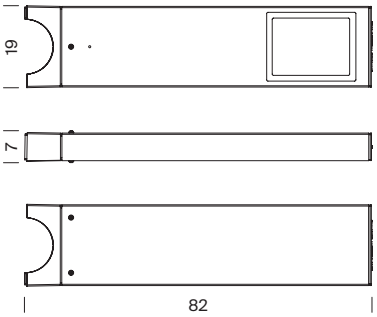


Sizes in cm

CE RoHS UL IP 66 IK 08

Materials: Anodized extruded aluminium luminaire with paint finish.
Painted injected aluminium accessories with same paint finish. Tempered optical glass diffuser.
Adaptable to 127 mm cylindrical pole.
Delivered in two parts: luminaire and clamp.
Instructions, screws, template and pole anchor bolts included.
Finishes:

Light grey (RAL 9006)
(Other colors available to order)
Sizes (cm): 82 x 19 x 7
Weight (Kg): 9.2

Dark grey (RAL 7024).

Installation: Suitable for pole and wall attachment using a range of fastening accessories.
The element is delivered in two parts: luminaire and fastening attachments.
(For further information log onto urbidermis.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 (protegido herméticamente contra la penetración de polvo y los chorros de agua), *Wet locations* (ubicación mojada), IK08 (protegido contra los impactos mecánicos externos)
Electrical class: Class I (CE)

Light source: Grupo óptico de alta eficiencia de 24, 48 LEDs
Nominal lamp power (W):
24 LEDs: 24 / 34
48 LEDs: 48 / 68
System power (W):
24 LEDs: 28 / 40
48 LEDs: 53 / 75
Operating current (mA): 350, 500
Color temperature (K): 3000 IRC min80, 4000 IRC tip70
Power supply: Driver corriente constante
Regulation:
1-10V/ DALI/ Regulación de flujo en cabecera/ Regulación automática programada
La luminaria LED puede ser regulada a través de diferentes interfaces. Estos controles permiten un control de luz individual y preciso, reduciendo de forma sostenible el consumo de energía.
Flujo Luminoso Constante (CLO)
Asegura una salida de lumen constante de la luminaria a lo largo de su vida útil.

Power factor (cos φ):

N° LEDs	Operating current (mA)	P (W) 100%, CLO 80%	P (W) 70%, CLO 80%
24	350	0.97	0.95
	500	0.98	0.97
48	350	0.97	0.95
	500	0.98	0.97

Operating voltage: 220-240V 50Hz (CE) / 120-277V 60Hz (UL)
Wire:
0,6/1 kV 3x1,5mm^2
0,6/1 kV 5x1,5mm^2 (prog.)
Temperature operating range Ta (°C): between -25 and 30 (500mA)
Lifetime: TM21 L70 (10k) > 50.000 h
Thanks to an optimised thermal design, the luminous flux is maintained up to 70% after 50.000 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.

Light distributions:
Asymmetric: Type II, Type III or Type IV (according to IESNA classification)
Upper Light Output Ratio (FHS): -

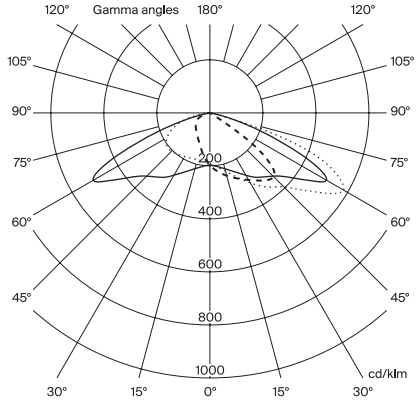
Configurations

						IESNA TII		IESNA TIII		IESNA TIV	
Reference	N° LEDs	T°color (K)	Operating Current (mA)	Lamp power (W)	System power (W)	Luminaire luminous flux (lm)	Efficacy (lm/W)	Luminaire luminous flux (lm)	Efficacy (lm/W)	Luminaire luminous flux (lm)	Efficacy (lm/W)
RLF24A1xx	24	3000 IRC min 80	350	24	28	2802	100	3248	116	3017	108
RLF24B1xx			500	34	40	3962	99	4591	115	4266	107
RLF24A2xx		4000 IRC tip 70	350	24	28	3081	110	3571	128	3317	118
RLF24B2xx			500	34	40	4356	109	5048	126	4690	117
RLF48A1xx	48	3000 IRC min 80	350	48	53	5378	101	6232	118	5790	109
RLF48B1xx			500	68	75	7356	98	8525	114	7920	106
RLF48A2xx		4000 IRC tip 70	350	48	53	6300	119	7302	138	6783	128
RLF48B2xx			500	68	75	8632	115	10003	133	9293	124

Asymmetric
TII Distribution
LOR 100%
ULOR 0%±3%

Max. intensity 573,26 cd/klm

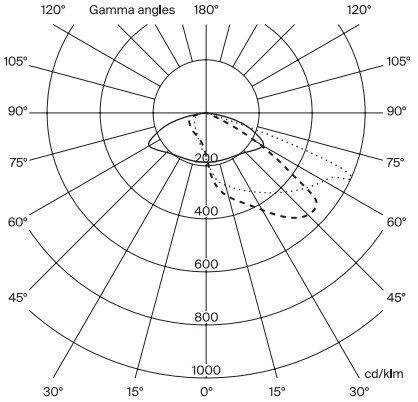
C Halfplanes
0° ——— 180°
90° - - - - 270°
25° ····· 205°



Asymmetric
TIII Distribution
LOR 100%
ULOR 0%±3%

Max. intensity 593,70 cd/klm

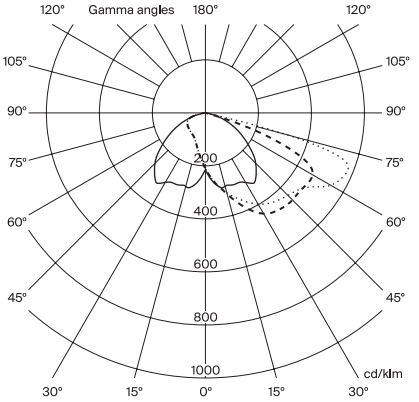
C Halfplanes
0° ——— 180°
90° - - - - 270°
40° ····· 220°



Asymmetric
TIV Distribution
LOR 100%
ULOR 0%±3%

Max. intensity 579,34 cd/klm

C Halfplanes
0° ——— 180°
90° - - - - 270°
65° ····· 245°



For calculation in ground type II (according to UNE-40) and wind speed of 29 m/s, with soil formed by loose or wet dirt or sand of medium compactness (E_0 = 4800 KN/m²), with HM-20 concrete. Non- binding information. We advise to carry out checks for each situation.

Rama Liviana
Pole attachment support

Gonzalo Milá, 2013

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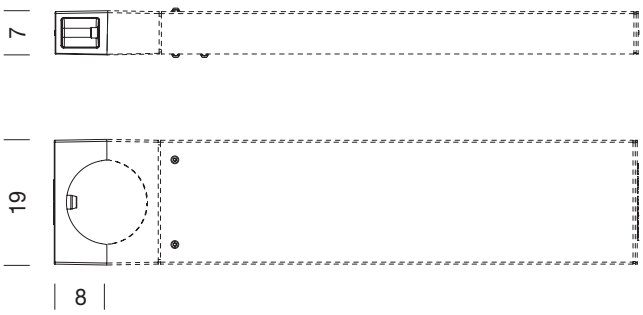

Sizes in cm

CE RoHS UL IP 66 IK 08 with Rama Liviana luminaire

Code: RAF03L
Accessory allowing a single luminaire to poles of Ø127-129 mm.
Materials: Anodized extruded aluminium bracket.
Stainless steel screws.
Finishes:

Light grey (RAL 9006)
(Other colors available to order)
Sizes (cm): 8 x 7 x 19
Weight (Kg): 3

Dark grey (RAL 7024).

Installation: to a pole with a fastening accessory. The element is delivered disassembled.
(For further information log onto urbidermis.com).

*Luminaire not included

For calculation in ground type II (according to UNE-40) and wind speed of 29 m/s, with soil formed by loose or wet dirt or sand of medium compactness (E_o = 4800 KN/m^2), with HM-20 concrete. Non- binding information. We advise to carry out checks for each situation.

Rama Liviana
Poles
Gonzalo Milá, 2012

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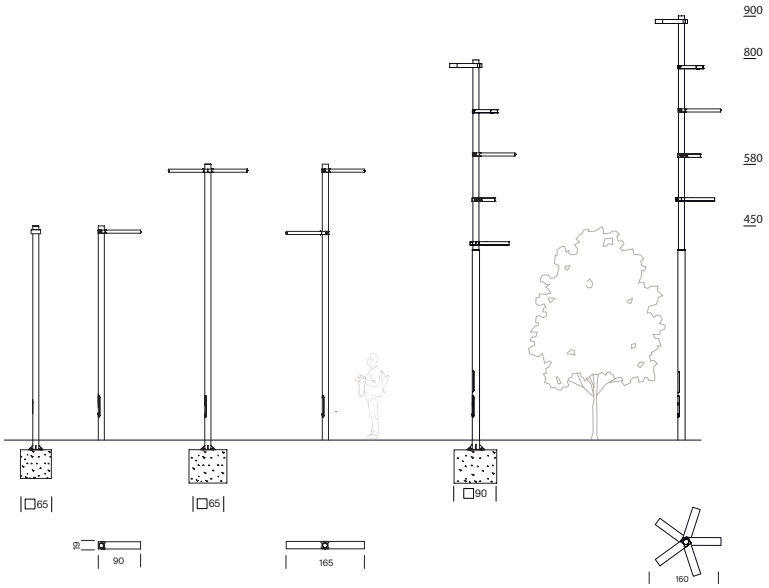

Sizes in cm

CE

Materials: Poles manufactured in class 1 S-275 JR steel cylindrical tube, in one or two segments depending on the height.
Hot-galvanised painted finish.
Finishes:

Light grey (RAL 9006)
(Other colors available to order)

Dark grey (RAL 7024)

Heights:
One section: (Ø 127 mm): 4.7 m / 6 m
Two sections: (Ø 152 mm / 127 mm): 8.2 m / 9.2 m
Installation:
By means of a base plate and bolts fastened to a foundation block
Distance between bolts:
(4.7 m / 6 m) 210 x 210 mm
(8.2 m / 9.2 m) 300 x 300 mm
Bolts: (4x) M18 x 500 incluidos
Applicable standards: EN 40, EN ISO 1461, EN 10025, EN 1090, ISO 12944, EN ISO 7599

Configurations

Total height (m)	Visible height (m)	Outer pole diameter (mm)	Thickness (mm)	Base plate (mm)	Distance between bolts (mm)	Bolts (x4)	Doors	Weights (Kg)	Foundation (xyz) (mm)	N° luminaires allowed
4.7	4.5	127	3	300x300x10	210x210	M18x500	1	48	650x650x600	1/2
6	5.8	127	3	300x300x10	210x210	M18x500	1	58	650x650x600	1/2
8.2	8	127/152	3	400x400x10	300x300	M18x500	1/2	94	900x900x700	1/5
9.2	9	127/152	3	400x400x10	300x300	M18x500	1/2	102	900x900x700	1/5