

Candela

Luminaire

Gonzalo Milá
2009



Product description

Certificates



Finishes



Light grey



Medium grey



Dark grey

The finishes shown are purely indicative. With **Superior** protection: high corrosion resistance for environments with demanding climate conditions. For coastal areas with severe climate conditions, check out our Premium protection finish. Other colours are available upon request.

Materials

- Anodised injection-moulded aluminium EN-AC-47100 luminaire with powder-coated finish.
- Tempered optical glass diffuser.
- A2 stainless steel hardware and metal cable gland.

Installation and maintenance

- The Candela luminaire includes an adjustable accessory for Ø 50/60/62 mm column sleeves. Once installed, the luminaire can be angled from -5° to +90°, adapting the orientation in line with the needs of the project.
- The luminaire is supplied as two components: the luminaire and the sleeve.
 - Instructions and hardware included.
 - Includes pressure compensation valve and 10kV surge protector (CE).
 - Clean using pH neutral, alcohol-free, non-abrasive cleaning products. The optical glass can be cleaned with non-abrasive cleaning products.

Regulations

- UNE-EN 60529
- UNE-EN 60598
- UNE-EN 55015
- UNE-EN 61000
- UNE-EN 50102
- UNE-EN 62031
- UL 1598
- UL 8750
- E-505192
- Lighting system with CE marking from a laboratory certified by ENAC [Spanish National Accreditation Body].
- IP66 (hermetically protected from penetration of dust and water jets).
- Suitable for wet areas.
- IK08 (protected from external mechanical impacts).
- Electrical class: Class I (CE)

Technical information

System power (W)

High efficiency optical unit
 24 LEDs 27W, 38W, 53W
 48 LEDs 51W, 73W, 102W
 72 LEDs 78W, 111W, 156W
 96 LEDs 100W, 145W, 202W

Operating current (mA)

350 / 500 / 700

Colour temperature (K)

4000 CRI min80 2200 CRI min70
 3000 CRI min80 PC Amber CRI min40
 2700 CRI min80

Other colour temperatures and/or CRIs are available upon request.

Power supply

Constant current driver.

Protocols and control

Protocols
 - 1-10V protocol
 - Dali protocol

Control
 - Dynamic programming
 - Analogue control

Functionalities
 - Constant Luminous Management (CLM)
 - Temperature control
 - Surge protector (CE)

Recommended cable

0.6-1kV
 5 x 1.5 mm² (AWG18)
 3 x 2.5 mm² (AWG16)

Operating voltage

220-240V 50-60Hz (CE)
 120-277V 60Hz (UL)

Nominal operating temperature (°C)

Ta 35

Service life

TM21 L90 (10k) > 100,000 h
 Luminous flux is maintained at 90% after 100,000 h.

Upper Hemisphere Flux (UHF%)

0

Surface exposed to wind (m2)

SW 0.07

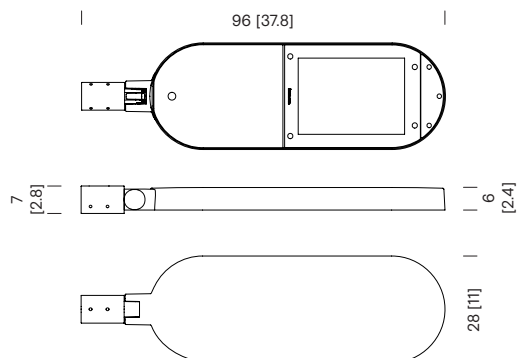
Weight kg [lb]

Luminaire: 11.5 [25.4]
 Approximate weight without packaging.

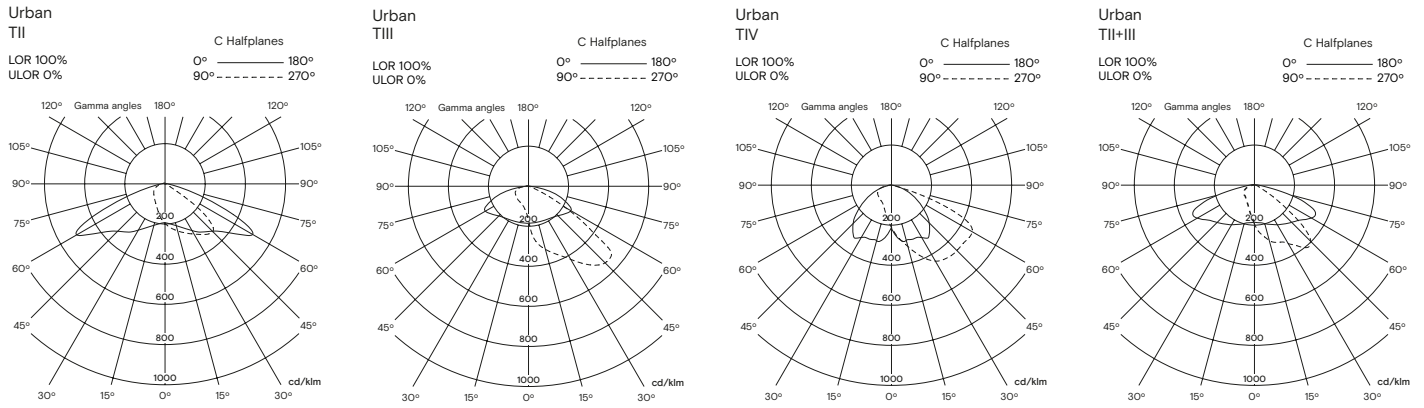
Power factor (cos Φ)

Current (mA)	P (W) 100% CLO 90%			
	24 LEDs	48 LEDs	72 LEDs	96 LEDs
350	0.97	0.97	0.98	0.97
500	0.98	0.99	0.99	0.97
700	0.99	0.99	1.00	0.98

Dimensions cm [in]



Lighting distributions



Candela					IESNA **TII		IESNA **TIII		IESNA **TIV		IESNA **TII+III	
Reference	System power (W)	No. of LEDs	Colour temperature (K)	Current (mA)	Luminous flux (lm)	Luminous efficacy (lm/W)	Luminous flux (lm)	Luminous efficacy (lm/W)	Luminous flux (lm)	Luminous efficacy (lm/W)	Luminous flux (lm)	Luminous efficacy (lm/W)
CAL24A2**	27	24	4000 CRI min80	350	3418	127	3219	119	3348	124	3318	123
CAL24B2**	38			500	4676	123	4404	116	4581	121	4540	119
CAL24C2**	53			700	6139	116	5781	109	6013	113	5960	112
CAL24A1**	27		3000 CRI min80	350	3085	114	2905	108	3021	112	2995	111
CAL24B1**	38			500	4220	111	3974	105	4134	109	4097	108
CAL24C1**	53			700	5540	105	5217	98	5427	102	5379	101
CAL24A3**	27		2700 CRI min80	350	3085	114	2905	108	3021	112	2995	111
CAL24B3**	38			500	4220	111	3974	105	4134	109	4097	108
CAL24C3**	53			700	5540	105	5217	98	5427	102	5379	101
CAL24A4**	27		2200 CRI min70	350	2709	100	2551	94	2654	98	2630	97
CAL24B4**	38			500	3707	98	3491	92	3631	96	3599	95
CAL24C4**	53			700	4866	92	4583	86	4767	90	4724	89
CAL24A5**	27		PC Amber CRI min40	350	1883	70	1773	66	1845	68	1828	68
CAL24B5**	38			500	2497	66	2351	62	2446	64	2424	64
CAL24C5**	53			700	2966	56	2793	53	2905	55	2879	54
CAL48A2**	51	48	4000 CRI min80	350	6947	136	6542	128	6805	133	6745	132
CAL48B2**	73			500	9449	129	8899	122	9256	127	9174	126
CAL48C2**	102			700	12314	121	11596	114	12062	118	11955	117
CAL48A1**	51		3000 CRI min80	350	6269	123	5904	116	6141	120	6087	119
CAL48B1**	73			500	8528	117	8031	110	8353	114	8279	113
CAL48C1**	102			700	11112	109	10465	103	10885	107	10788	106
CAL48A3**	51		2700 CRI min80	350	6269	123	5904	116	6141	120	6087	119
CAL48B3**	73			500	8528	117	8031	110	8353	114	8279	113
CAL48C3**	102			700	11112	109	10465	103	10885	107	10788	106
CAL48A4**	51		2200 CRI min70	350	5507	108	5186	102	5394	106	5346	105
CAL48B4**	73			500	7490	103	7054	97	7337	101	7272	100
CAL48C4**	102			700	9761	96	9192	90	9561	94	9476	93
CAL48A5**	51		PC Amber CRI min40	350	3827	75	3604	71	3749	74	3716	73
CAL48B5**	73			500	5045	69	4751	65	4942	68	4898	67
CAL48C5**	102			700	5949	58	5602	55	5827	57	5775	57

Candela				IESNA **TII		IESNA **TIII		IESNA **TIV		IESNA **TII+III		
Reference	System power (W)	No. of LEDs	Colour temperature (K)	Current (mA)	Luminous flux (lm)	Luminous efficacy (lm/W)	Luminous flux (lm)	Luminous efficacy (lm/W)	Luminous flux (lm)	Luminous efficacy (lm/W)	Luminous flux (lm)	Luminous efficacy (lm/W)
CAL72A2**	78	72	4000 CRI min80	350	10319	132	9718	125	10108	130	10018	128
CAL72B2**	111			500	13955	126	13141	118	13669	123	13548	122
CAL72C2**	156			700	18049	116	16997	109	17680	113	17523	112
CAL72A1**	78		3000 CRI min80	350	9312	119	8770	112	9122	117	9041	116
CAL72B1**	111			500	12593	113	11859	107	12336	111	12226	110
CAL72C1**	156			700	16288	104	15339	98	15955	102	15814	101
CAL72A3**	78		2700 CRI min80	350	9312	119	8770	112	9122	117	9041	116
CAL72B3**	111			500	12593	113	11859	107	12336	111	12226	110
CAL72C3**	156			700	16288	104	15339	98	15955	102	15814	101
CAL72A4**	78		2200 CRI min70	350	8180	105	7703	99	8013	103	7941	102
CAL72B4**	111			500	11062	100	10417	94	10836	98	10739	97
CAL72C4**	156			700	14307	92	13474	86	14015	90	13890	89
CAL72A5**	78		PC Amber CRI min40	350	5685	73	5354	69	6110	78	5519	71
CAL72B5**	111			500	7450	67	7016	63	8007	72	7233	65
CAL72C5**	156			700	8720	56	8211	53	9371	60	8466	54
CAL96A2**	100	96	4000 CRI min80	350	13099	131	12336	123	12831	128	12717	127
CAL96B2**	145			500	17908	124	16865	116	17542	121	17386	120
CAL96C2**	202			700	23577	117	22203	110	23095	114	22890	113
CAL96A1**	100		3000 CRI min80	350	11821	118	11132	111	11579	116	11477	115
CAL96B1**	145			500	16161	111	15219	105	15831	109	15690	108
CAL96C1**	202			700	21277	105	20037	99	20842	103	20657	102
CAL96A3**	100		2700 CRI min80	350	11821	118	11132	111	11579	116	11477	115
CAL96B3**	145			500	16161	111	15219	105	15831	109	15690	108
CAL96C3**	202			700	21277	105	20037	99	20842	103	20657	102
CAL96A4**	100		2200 CRI min70	350	10383	104	9778	98	10171	102	10081	101
CAL96B4**	145			500	14195	98	13368	92	13905	96	13782	95
CAL96C4**	202			700	18689	93	17600	87	18307	91	18145	90
CAL96A5**	100		PC Amber CRI min40	350	7217	72	6796	68	7069	71	7006	70
CAL96B5**	145			500	9561	66	9004	62	9366	65	9283	64
CAL96C5**	202			700	11390	56	10726	53	11157	55	11058	55