

CALUMMA™ S MC

Featuring an optical design using three high efficacy multi-chip LEDs and available with optional LED colour variants and various beam angles, the small-sized Calumma S MC luminaire creates powerful and beautiful light output for a spot, accent or flood lighting solution. Its durable housing is built to withstand any exterior conditions, and its special finish for harsh and marine environments provides an exceptional outdoor LED luminaire in an elegant design. Complemented by a wide range of accessories, control protocols and connection options, this luminaire is an effective and versatile tool to get the most out of architectural lighting applications.



KEY FEATURES

Lumen output & Light source

Luminaire with three high-power, multi-chip LEDs provides up to 998 lumen output. Multiple LED colour variants. No light spills. Perfectly homogenised light output with efficacy up to 33 lm/w.

Design & Durability

Compact, durable and stylish housing made of high-pressure die cast aluminium. IP67 and IK10 certification; suitable for marine applications (Harsh Environment Finish required) and traffic applications. Supported with a 5 year warranty.

Flexibility

Exceptional outdoor or indoor LED luminaire with a wide range of accessories, custom colour finishes, multiple light output variants and beam angles.

Connectivity

Calumma S MC can be connected via an E-Box for almost effortless installation. DMX512+RDM and wide range of Ethernet protocols are available for E-Box control. DMX/RDM or DALI 2 interface protocols facilitate standard connection options.

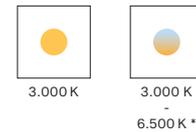
COLOURS

* UPON REQUEST



COLOUR TEMPERATURE

* UPON REQUEST

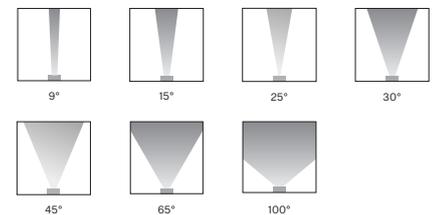


CONTROL & PROTOCOLS

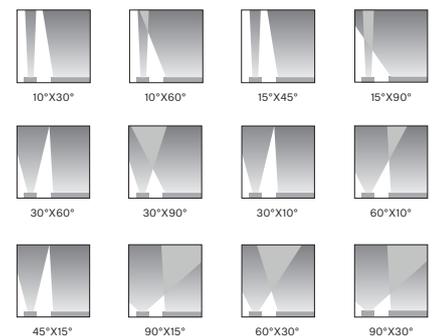


OPTIC OPTIONS

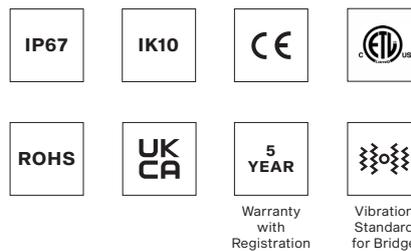
SYMMETRICAL



BI-SYMMETRICAL



STANDARD & SPECIFICATION



FINISH OPTIONS

* CLOSEST RAL TONE
* HE = Harsh Environment



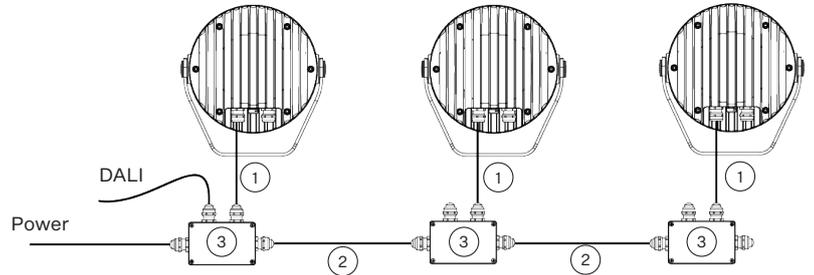
SPECIFICATION

ELECTRICAL	Input Voltage	120–277 V AC 50/60 Hz (US)		
	Typical Power Consumption	30 W +/-10 %		
OPTICAL	Light Source	High Power Multichip LEDs		
	Colour Variants	RGBW (W - 6500 K) RGBA PW (W - 3000 K)		
		Other Variants On Request (TW 3000 - 6500 K)		
	Beam Angle	9° 15° 25° 30° 45° 65° 100°		
		10°x30° 30°x10° 10°x60° 60°x10° 15°x45° 45°x15° 15°x90° 90°x15° 30°x60° 60°x30° 30°x90° 90°x30°		
	Lumen Output Delivered	998 lm (@9° RGBW)		
Projected Lumen Maintenance	L90B10 >90.000 hrs, Ta = 25°C / 77°F			
CONTROL	Interface Protocol	DMX/RDM, DALI 2 (DALI Device Type: DT 8)		
	Control System	Third Party DMX Controllers		
	Operating Modes	DMX, Stand-alone		
	Settings / Addressing	E-Box, RDM communicator		
	Power Supply	Integrated		
PHYSICAL	Width x Height x Depth	189 x 196 x 119 mm (7.4 x 7.7 x 4.7 in.)		
	Weight	3.44 kg 7.6 lbs		
	Housing	High Pressure Die-Cast Aluminium Body		
		Tempered Glass		
	Finish Options	Standard Colour	Graphite Black RAL 9011 Grey Aluminium RAL 9007 Pure White RAL 9010 Sandstone RAL 1014	
		Standard Colour Harsh Environment	Graphite Black RAL 9011 Grey Aluminium RAL 9007 Pure White RAL 9010 Sandstone RAL 1014	
		Cost Option	Custom RAL	
	Cables / Connections	IN (for DMX, DALI):	<ul style="list-style-type: none"> - 1 m cable with bare end - Other cable length - custom - Junction box - optional 	
	Mounting Method	Yoke or Yoke for Pole Adaptor		
	Adjustability	+180° / -180°		
Protection Factor	IP67 / Suitable For Wet Locations			
IK Rating	IK10			
Cooling System	Convection			
Operating Ambient Temperature	-20 °C / +50 °C (-4 °F / +122 °F)			
CERTIFICATION	Listings	ETL / cETL, CE, RoHS, UKCA		
ACCESSORIES	Not Included Items	Junction Box for Calumma S-XL / Eminere (CE or US)		
		Re-enterable Electrical Insulating Resin		
		Optical Demo Set for Calumma S (for demo purposes)		
		Outdoor Foil Holder for Calumma S „OFH“ version only (for permanent installation)		
		Optical Foil Set for Outdoor Foil Holder Calumma S		
		Land Spike for Calumma S		
		Top Hat Calumma S		
		Half Top Hat Calumma S		
Floor Stand for Calumma S, M				
Pole Adaptor (ø 102 mm) (Yoke for Pole Adaptor Required)				

CONTROL AND CONNECTION OPTIONS - CE

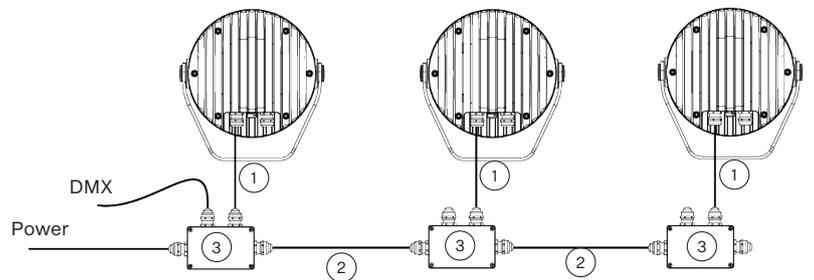
DALI

- 1) Hybrid Cable (13053693) Standard 1 m with bare-end, black or on request Hybrid Cable (13053697), 1 m with bare-end, white
- 2) Hybrid Cable (13053693) Standard 1 m with bare-end, black, or on request Hybrid Cable (13053697), 1 m with bare-end, white or Scope of Others
- 3) Junction Box



DMX

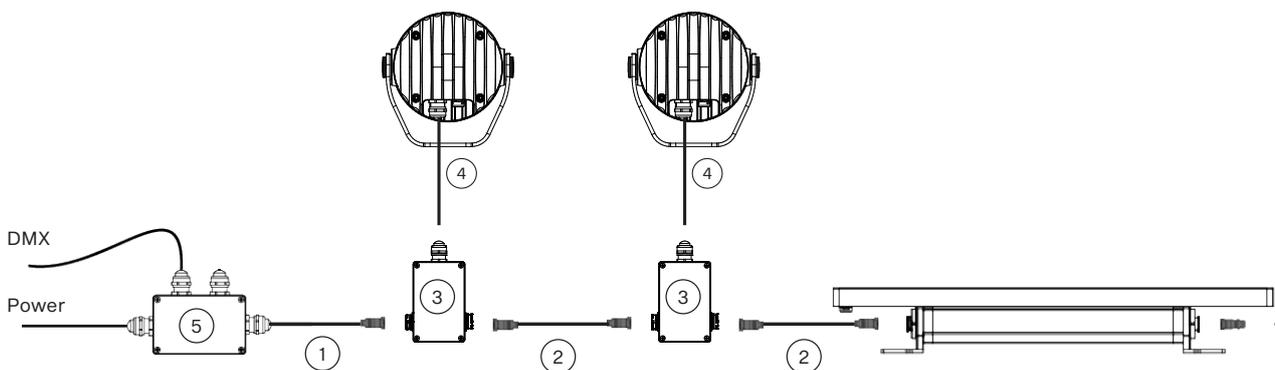
- 1) Flamar 3x16 AWG + 1x(2x24 AWG) Standard 1 m with bare-end, (13051508), black or Hybrid Cable HYB-5731ZH LSZH (13053694), white
- 2) Flamar 3x16 AWG + 1x(2x24 AWG), (13051508), black or Hybrid Cable HYB-5731ZH LSZH (13053694), white or Scope of Others
- 3) Junction Box



DMX WITH JUNCTION BOX FOR CALUMMA S/ EMINERE (CE)

- 1) Leader Cables FF - 2 | 5 | 10 | 25 | 50 m
- 2) Jumper Cables FF/FM - 0.25 | 0.5 | 1 | 2 | 3 | 5 | 10 m
- 3) Junction Box for Calumma S-XL / Eminere CE (10981268 for RAL9011)
- 4) Flamar 3x16 AWG + 1x(2x24 AWG) Standard 1 m with bare-end (13051508), black or Hybrid Cable HYB-5731ZH LSZH (13053694), white
- 5) Junction Box

Note: The last unplugged connector must be fitted with a Waterproof Cap to protect the IP rating.

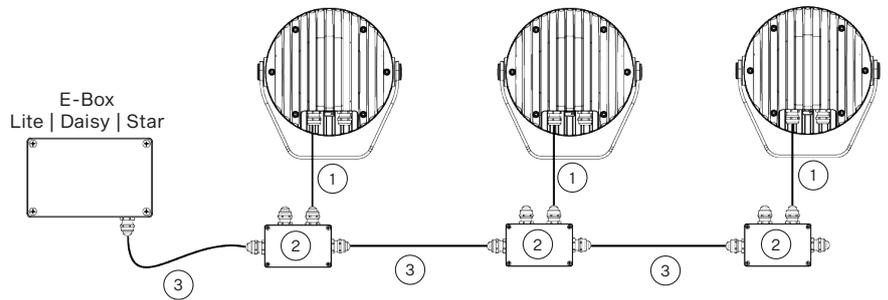


CONTROL AND CONNECTION OPTIONS - CE

DMX or ETHERNET via E-BOX

- 1) Flamar 3x16 AWG + 1x(2x24 AWG) - (13051508), Standard 1 m with bare-end, black or HYB-5731ZH LSZH (13053694), Hybrid Cable, white
- 2) Junction Box
- 3) Flamar 3x16 AWG + 1x(2x24 AWG) - (13051508), black or HYB-5731ZH LSZH (13053694), Hybrid Cable, white or Scope of Others

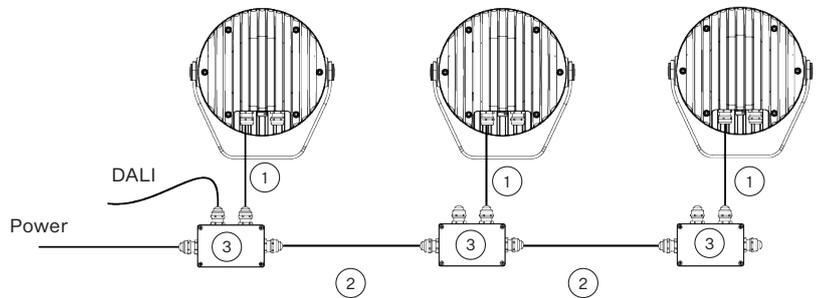
Note: This type of connection is available for S, M, L, and XL versions. E-Box has to be in Pass Through mode only.



CONTROL AND CONNECTION OPTIONS - US

DALI

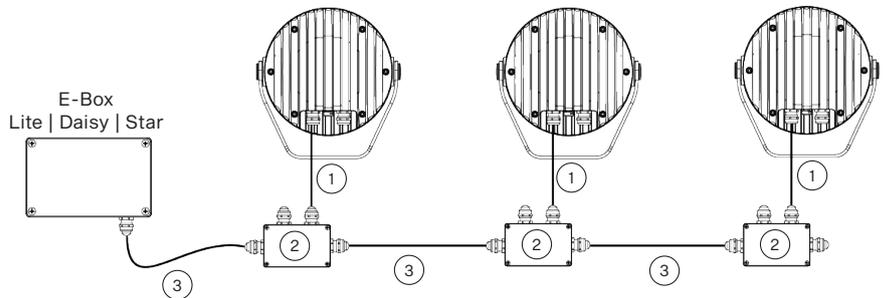
- 1) SJTW 5x14 AWG (13053693), Standard 1 m with bare-end, black or Cable SJTW 5x14 AWG (13053697), white
- 2) SJTW 5x14 AWG (13053693), black or Cable SJTW 5x14 AWG (13053697), white or Scope of Others
- 3) Junction Box



DMX or ETHERNET via E-BOX

- 1) SJTW 6x14 AWG (13053480) Standard 1 m with bare-end, black or Cable SJTW 6x14 AWG (13053695), white
- 2) Junction Box
- 3) SJTW 6x14 AWG (13053480), black or Cable SJTW 6x14 AWG (13053695), white or Scope of Others

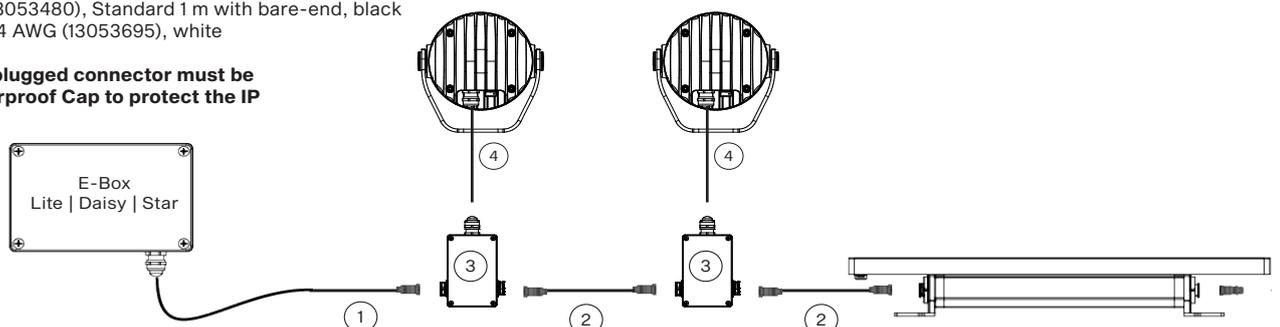
Note: This type of connection is available for S, M, L, and XL versions. E-Box has to be in Pass Through mode only.



DMX WITH JUNCTION BOX FOR CALUMMA S / EMINERE (US)

- 1) Leader Cables FF - 2 | 5 | 10 | 25 | 50 m
- 2) Jumper Cables FF/FM - 0.25 | 0.5 | 1 | 2 | 3 | 5 | 10 m
- 3) Junction Box for Calumma S-XL / Eminere US (10981269 for RAL9011)
- 4) SJTW 6x14 AWG (13053480), Standard 1 m with bare-end, black or Cable SJTW 6x14 AWG (13053695), white

Note: The last unplugged connector must be fitted with a Waterproof Cap to protect the IP rating.



CONNECTIVITY

Following table shows maximum connected Calummas S SC in a row with respect of cable length.

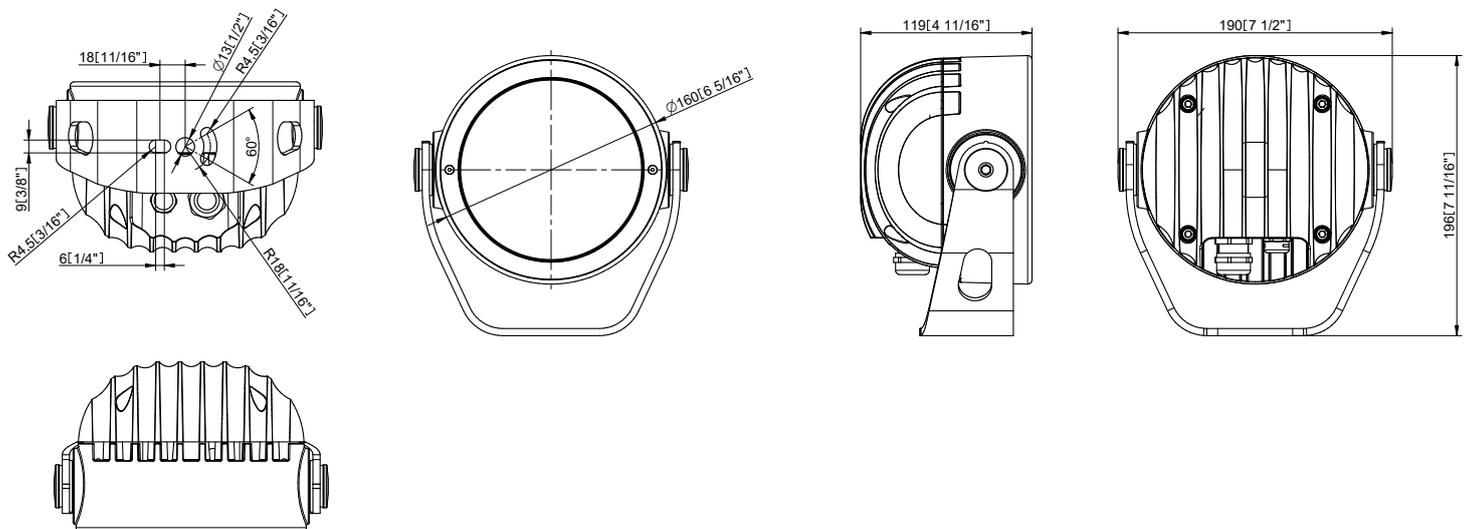
	Cable length (m)	Voltage (V)			
		120	190	230	277
CALUMMA S SC	10	32	32	32	32
	20	32	32	32	32
	30	32	32	32	32
	50	26	32	32	32
	70	18	32	32	32
	100	13	32	32	32

PROJECTED AREA

	Front (rear) - m ²	Front (rear) ft ²	Side - m ²	Side - ft ²	Top - m ²	Top - ft ²
Calumma S	0.023	0.250	0.019	0.207	0.018	0.196
with Top Hat	0.023	0.250	0.027	0.290	0.027	0.290
with Half Top Hat	0.023	0.250	0.022	0.232	0.027	0.290

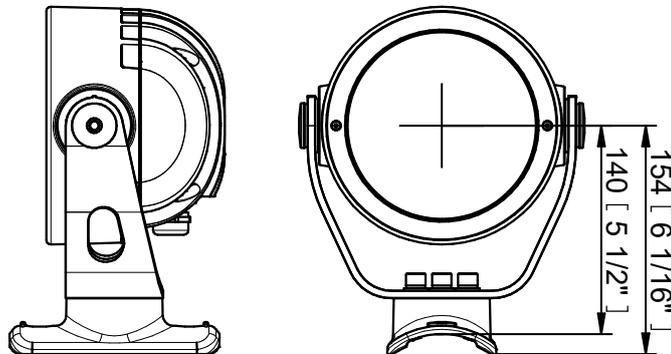
DIMENSIONS

Standard Yoke



Yoke for Pole Adaptor (with Pole Adaptor / PA)

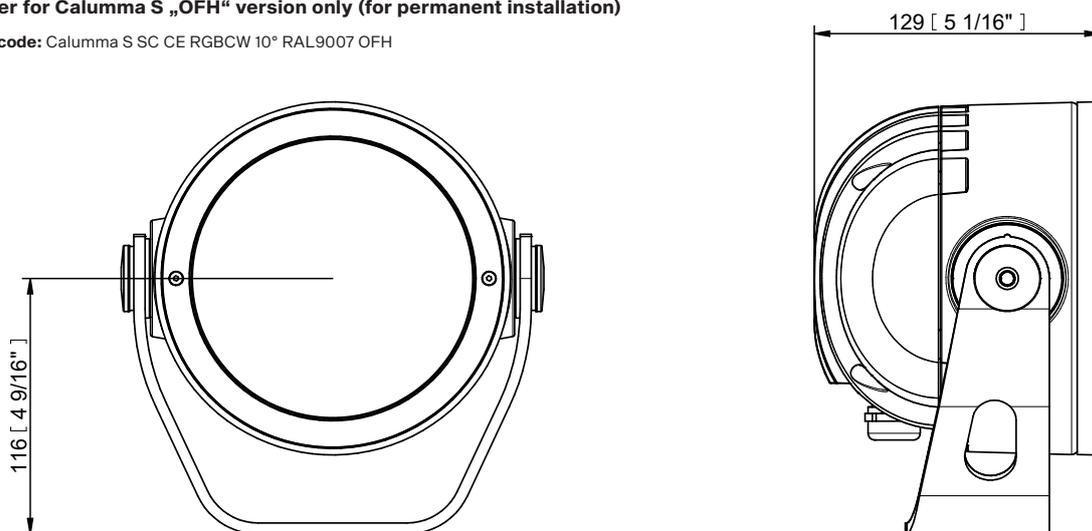
Example of ordering code: Calumma S SC RGBCW 15° PA



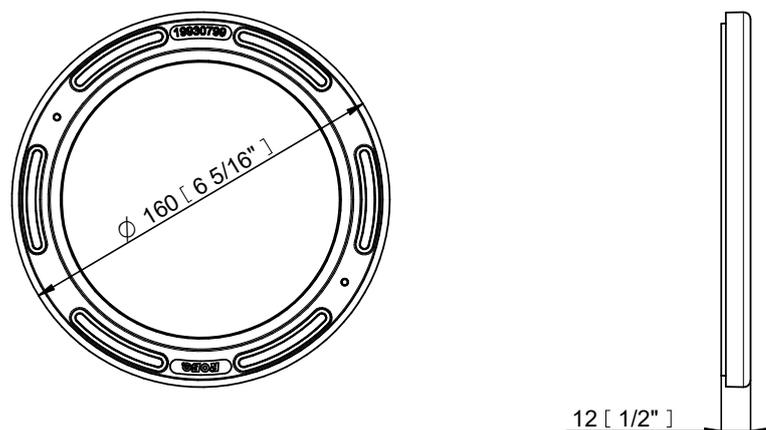
ACCESSORIES

Outdoor Foil Holder for Calumma S „OFH“ version only (for permanent installation)

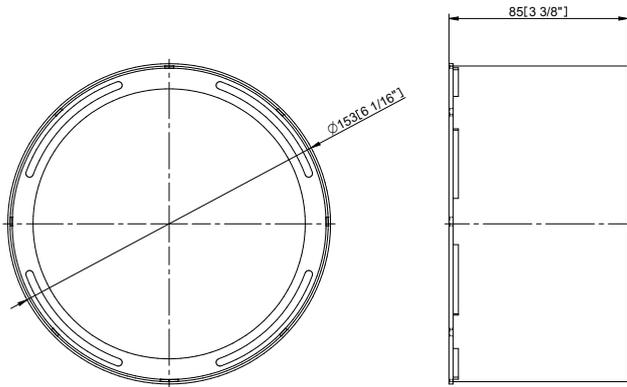
Example of ordering code: Calumma S SC CE RGBCW 10° RAL9007 OFH



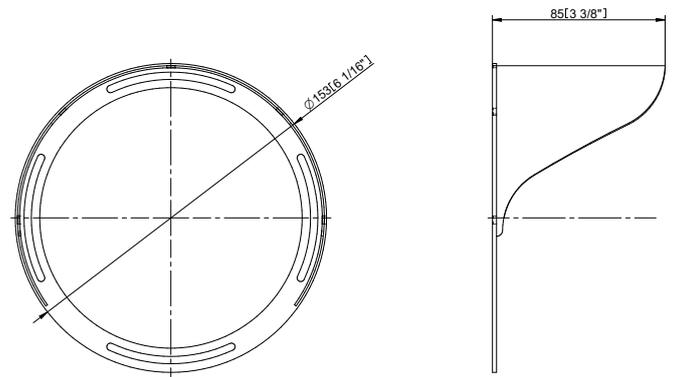
Outdoor Foil Holder for Calumma S



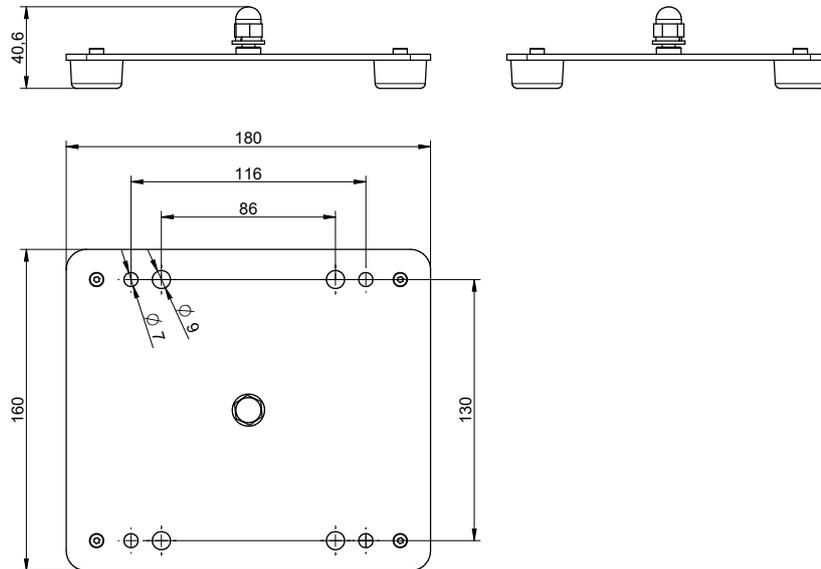
Top Hat



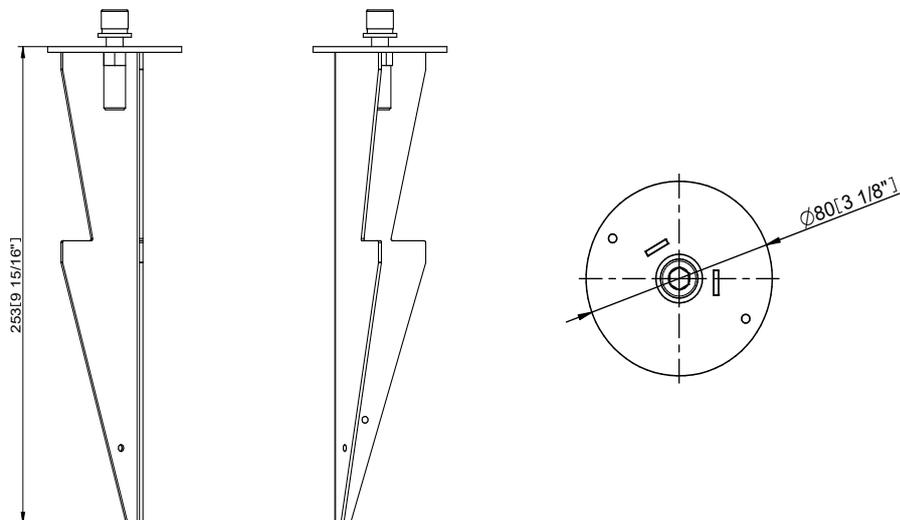
Half Top Hat



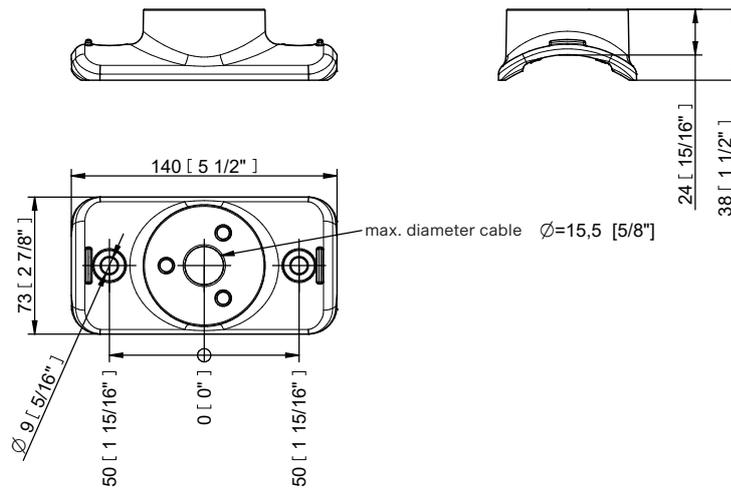
Floor Stand



Land Spike for Calumma (S, M, L, XL)



Pole Adaptor



PHOTOMETRIC OVERVIEW

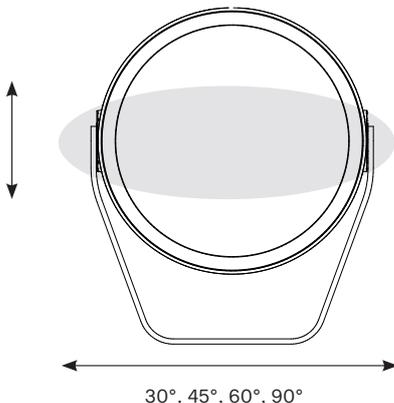
	Lumen Output (lm)		
	RGBCW (W 6500 K)	RGBA	WW (W 3000 K)
9°	998	856	851
15°	849	728	723
25°	848	727	724
30°	835	716	712
45°	847	727	723
65°	847	727	723
100°	837	718	714
10°x30°, 30°x10°	801	686	683
10°x60°, 60°x10°	891	764	759
15°x45°, 45°x15°	906	778	774
30°x60°, 60°x30°	843	723	718
30°x90°, 90°x30°	906	776	772
15°x90°, 90°x15°	902	773	769

BI-SYMMETRICAL BEAM ANGLES

Bi-symmetrical:

10°x30°,
10°x60°,
15°x45°,
15°x90°,
30°x60°,
30°x90°

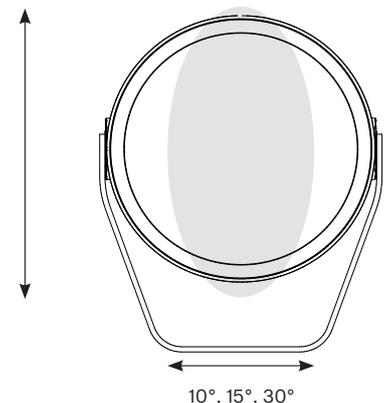
10°, 15°, 30°



Bi-symmetrical:

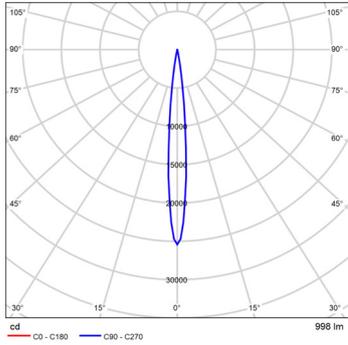
30°x10°,
60°x10°,
45°x15°,
90°x15°,
60°x30°,
90°x30°

30°, 45°, 60°, 90°

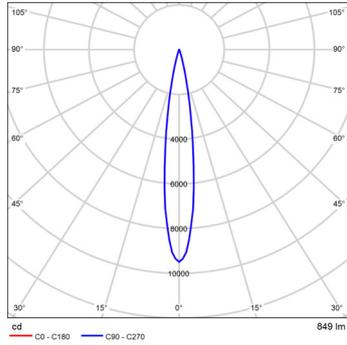


PHOTOMETRIC DATA

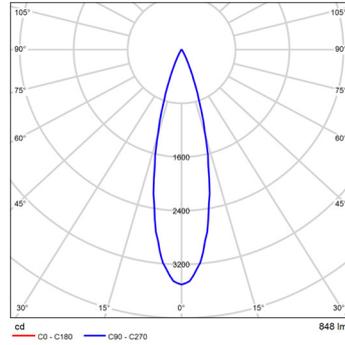
Calumma S MC RGBW 6500K 9dg



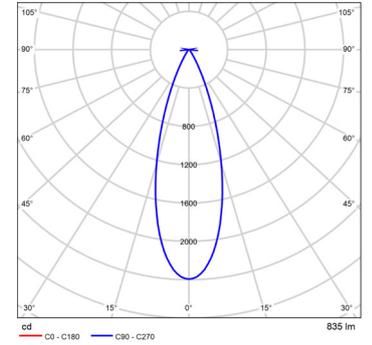
Calumma S MC RGBW 6500K 15dg



Calumma S MC RGBW 6500K 25dg



Calumma S MC RGBW 6500K 30dg



Distance [m]	Cone diameter [m]	E ₀ [lx]	E ₁₀ [lx]	E ₁₅ [lx]
0.50	0.09	101628	50814	25407
1.0	0.17	25407	12703	6351
1.5	0.26	11292	5646	2823
2.0	0.35	6351	3175	1587
2.5	0.44	4068	2034	1058
3.0	0.52	2823	1411	707

Distance [m] Cone diameter [m] Illuminance [lx]
— C0 - C180 (Beam angle: 10.0°)

Distance [m]	Cone diameter [m]	E ₀ [lx]	E ₁₀ [lx]	E ₁₅ [lx]
0.50	0.13	37972	18986	9493
1.0	0.27	9493	4746	2373
1.5	0.40	4219	2118	1058
2.0	0.53	2373	1186	594
2.5	0.67	1518	740	371
3.0	0.80	1058	524	261

Distance [m] Cone diameter [m] Illuminance [lx]
— C0 - C180 (Beam angle: 15.2°)

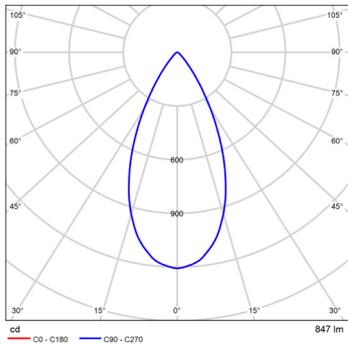
Distance [m]	Cone diameter [m]	E ₀ [lx]	E ₁₀ [lx]	E ₁₅ [lx]
0.50	0.23	14004	7002	3501
1.0	0.46	3501	1750	875
1.5	0.69	1556	778	389
2.0	0.92	875	437	218
2.5	1.2	560	280	140
3.0	1.4	389	194	97

Distance [m] Cone diameter [m] Illuminance [lx]
— C0 - C180 (Beam angle: 26.0°)

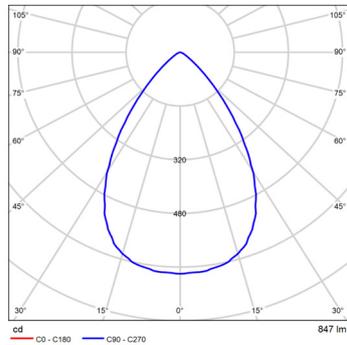
Distance [m]	Cone diameter [m]	E ₀ [lx]	E ₁₀ [lx]	E ₁₅ [lx]
0.50	0.29	1073	536	268
1.0	0.57	268	134	67
1.5	0.86	1064	532	266
2.0	1.1	598	299	149
2.5	1.4	383	191	96
3.0	1.7	266	133	67

Distance [m] Cone diameter [m] Illuminance [lx]
— C0 - C180 (Beam angle: 32.0°)

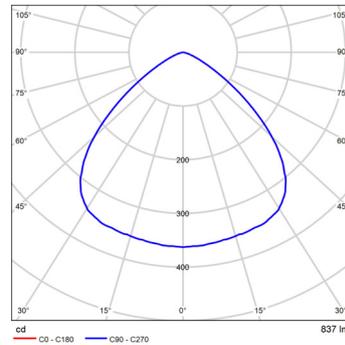
Calumma S MC RGBW 6500K 45dg



Calumma S MC RGBW 6500K 65dg



Calumma S MC RGBW 6500K 100dg



Distance [m]	Cone diameter [m]	E ₀ [lx]	E ₁₀ [lx]	E ₁₅ [lx]
0.50	0.45	4828	2414	1207
1.0	0.91	1207	603	301
1.5	1.4	637	321	161
2.0	1.8	302	151	75
2.5	2.3	193	97	48
3.0	2.7	134	67	33

Distance [m] Cone diameter [m] Illuminance [lx]
— C0 - C180 (Beam angle: 48.8°)

Distance [m]	Cone diameter [m]	E ₀ [lx]	E ₁₀ [lx]	E ₁₅ [lx]
0.50	0.70	2640	1320	660
1.0	1.4	660	330	165
1.5	2.1	293	146	73
2.0	2.8	165	82	41
2.5	3.5	106	53	26
3.0	4.2	73	37	18

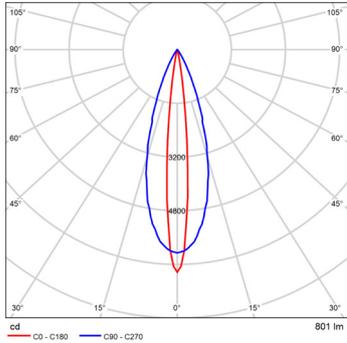
Distance [m] Cone diameter [m] Illuminance [lx]
— C0 - C180 (Beam angle: 69.8°)

Distance [m]	Cone diameter [m]	E ₀ [lx]	E ₁₀ [lx]	E ₁₅ [lx]
0.50	1.2	1482	741	370
1.0	2.4	363	181	90
1.5	3.5	161	80	40
2.0	4.7	91	45	22
2.5	5.9	56	28	14
3.0	7.1	40	20	10

Distance [m] Cone diameter [m] Illuminance [lx]
— C0 - C180 (Beam angle: 99.4°)

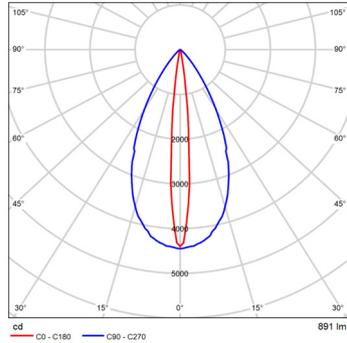
PHOTOMETRIC DATA

Calumma S MC RGBW 6500K
10x30dg



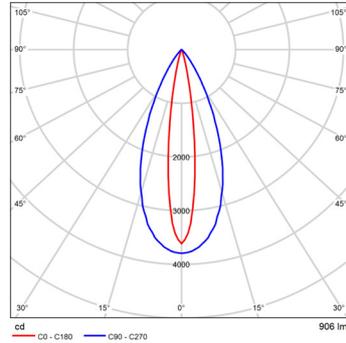
Distance [m]	Cone diameter [m]	E ₀ ^(°)	E ₁₀ ^(°)	E ₃₀ ^(°)	E ₄₅ ^(°)	E ₆₀ ^(°)	E ₇₅ ^(°)	E ₉₀ ^(°)	Beam angle
0.50	0.25	2622	1678	1066	663	428	297	237	33.4°
1.0	0.50	1678	1066	663	428	297	237	237	33.4°
1.5	0.75	1118	711	442	297	237	237	237	33.4°
2.0	1.00	839	537	332	237	237	237	237	33.4°
2.5	1.25	655	428	297	237	237	237	237	33.4°
3.0	1.50	537	332	237	237	237	237	237	33.4°

Calumma S MC RGBW 6500K
10x60dg



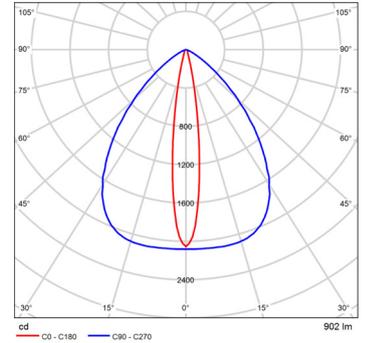
Distance [m]	Cone diameter [m]	E ₀ ^(°)	E ₁₀ ^(°)	E ₃₀ ^(°)	E ₄₅ ^(°)	E ₆₀ ^(°)	E ₇₅ ^(°)	E ₉₀ ^(°)	Beam angle
0.50	0.26	1787	1118	711	442	297	237	237	52.6°
1.0	0.52	1118	711	442	297	237	237	237	52.6°
1.5	0.78	745	487	311	237	237	237	237	52.6°
2.0	1.04	559	365	237	237	237	237	237	52.6°
2.5	1.30	447	297	237	237	237	237	237	52.6°
3.0	1.56	370	237	237	237	237	237	237	52.6°

Calumma S MC RGBW 6500K
15x45dg



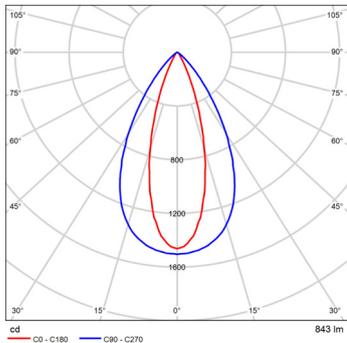
Distance [m]	Cone diameter [m]	E ₀ ^(°)	E ₁₀ ^(°)	E ₃₀ ^(°)	E ₄₅ ^(°)	E ₆₀ ^(°)	E ₇₅ ^(°)	E ₉₀ ^(°)	Beam angle
0.50	0.40	1454	906	584	365	237	186	146	44.0°
1.0	0.81	906	584	365	237	186	146	146	44.0°
1.5	1.21	604	396	255	186	146	146	146	44.0°
2.0	1.62	453	297	186	146	146	146	146	44.0°
2.5	2.03	363	237	146	146	146	146	146	44.0°
3.0	2.43	303	186	146	146	146	146	146	44.0°

Calumma S MC RGBW 6500K
15x90dg



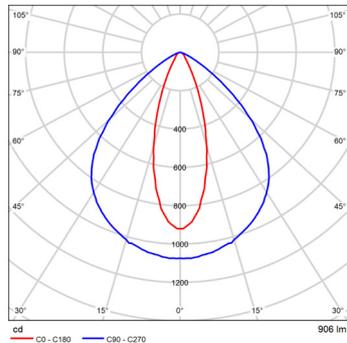
Distance [m]	Cone diameter [m]	E ₀ ^(°)	E ₁₀ ^(°)	E ₃₀ ^(°)	E ₄₅ ^(°)	E ₆₀ ^(°)	E ₇₅ ^(°)	E ₉₀ ^(°)	Beam angle
0.50	0.40	827	514	332	211	138	106	82	82.6°
1.0	0.80	514	332	211	138	106	82	82	82.6°
1.5	1.20	343	211	138	106	82	82	82	82.6°
2.0	1.60	257	159	106	82	82	82	82	82.6°
2.5	2.00	205	127	82	82	82	82	82	82.6°
3.0	2.40	171	106	82	82	82	82	82	82.6°

Calumma S MC RGBW 6500K
30x60dg



Distance [m]	Cone diameter [m]	E ₀ ^(°)	E ₁₀ ^(°)	E ₃₀ ^(°)	E ₄₅ ^(°)	E ₆₀ ^(°)	E ₇₅ ^(°)	E ₉₀ ^(°)	Beam angle
0.50	0.58	880	543	354	228	150	113	87	31.4°
1.0	1.16	543	354	228	150	113	87	87	31.4°
1.5	1.74	388	255	169	113	87	87	87	31.4°
2.0	2.32	303	199	134	87	87	87	87	31.4°
2.5	2.90	242	159	106	87	87	87	87	31.4°
3.0	3.48	200	127	87	87	87	87	87	31.4°

Calumma S MC RGBW 6500K
30x90dg



Distance [m]	Cone diameter [m]	E ₀ ^(°)	E ₁₀ ^(°)	E ₃₀ ^(°)	E ₄₅ ^(°)	E ₆₀ ^(°)	E ₇₅ ^(°)	E ₉₀ ^(°)	Beam angle
0.50	0.90	3681	2289	1512	972	648	486	368	50.8°
1.0	1.80	2289	1512	972	648	486	368	368	50.8°
1.5	2.70	1512	972	648	486	368	368	368	50.8°
2.0	3.60	1134	729	486	368	368	368	368	50.8°
2.5	4.50	906	584	368	368	368	368	368	50.8°
3.0	5.40	755	486	368	368	368	368	368	50.8°