

# CALUMMA™ REMOTE M MC

Featuring an optical design using high efficacy multi-chip LEDs and available with optional LED colour variants and various beam angles, the medium-sized Calumma Remote M 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 wide range of accessories and control protocols via E-Box Remote, this luminaire is an effective and versatile unit to get the most out of architectural lighting applications.



## KEY FEATURES

### Lumen output & Light source

Luminaire with high-power, multi-chip LEDs provides up to 2328 lumen output. Multiple LED colour variants. No light spills. Perfectly homogenised light output with efficacy up to 35 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

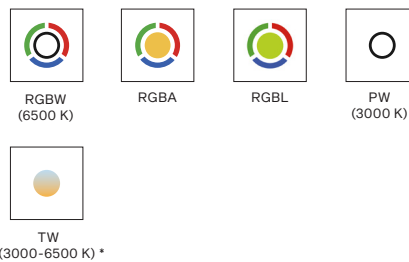
Exceptional outdoor or indoor LED luminaire with a wide range of accessories, custom colour finishes, multiple light output variants and beam angles.

### Connectivity

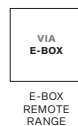
Utilising the innovative E-Box Remote series of power and data interfaces, Calumma Remote M MC can communicate via numerous wired, wireless, and Ethernet based control protocols.

## COLOURS

\* UPON REQUEST



## CONTROL & PROTOCOLS



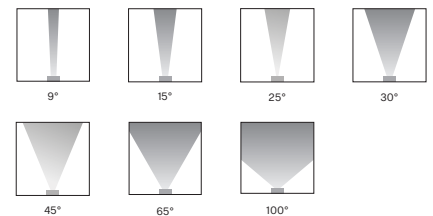
## FINISH OPTIONS

\* CLOSEST RAL TONE  
\* HE = Harsh Environment

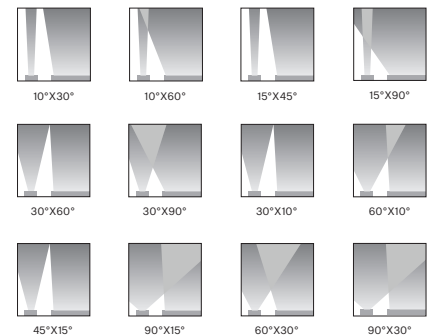


## OPTIC OPTIONS

### SYMMETRICAL



### BI-SYMMETRICAL



## STANDARD & SPECIFICATION



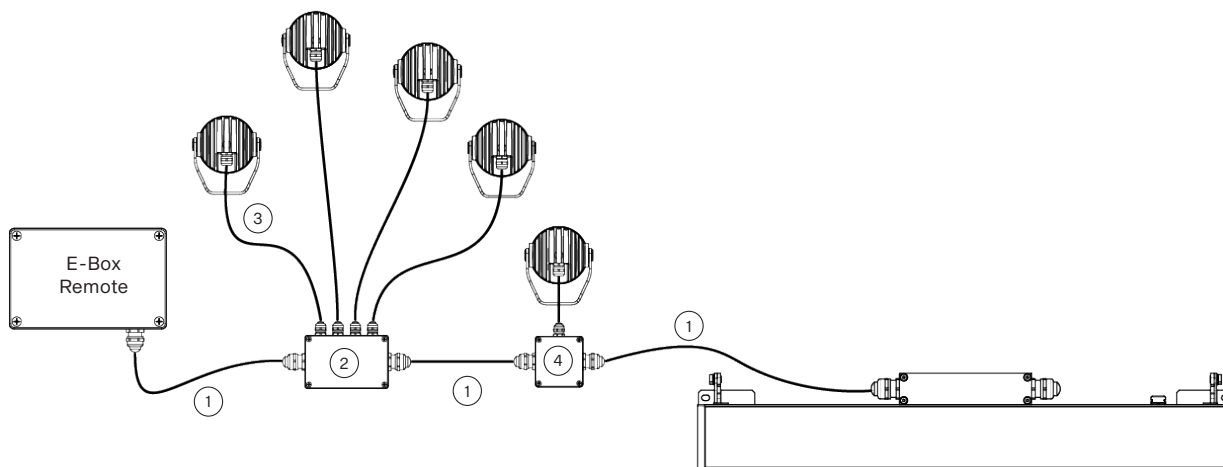
**SPECIFICATION**

<b>ELECTRICAL</b>	Input Voltage	48 V		
	Typical Power Consumption	65 W +/-10 %		
<b>OPTICAL</b>	Light Source	High Power Multichip LEDs		
	Colour Variants	RGBW (W - 6500 K)   RGBA   RGBL   Pure White (W - 3000 K) <b>On Request:</b> Tuneable White (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	2328 lm (@9° RGBW)		
	Projected Lumen Maintenance	L90B10 >90.000 hrs, Ta = 25°C / 77°F		
<b>CONTROL</b>	Interface Protocol	Via E-box Remote, E-box Remote Basic or E-Box Remote Basic Mini		
	E-box control protocol	USITT DMX512+RDM, ArtNet, MA Net, MA Net2, sACN, Kling-Net		
	Settings / Addressing	Via Two Row LCD Display with Control Buttons on E-Box Remote or RDM communicator		
	Power Supply	Via E-Box Remote range		
<b>PHYSICAL</b>	Width x Height x Depth	264 x 278 x 106 mm (10.4 x 10.94 x 4.17 in.)		
	Weight	5.43 kg   12 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	<b>IN:</b> - Cable with bare end (Standard 1m, Longer upon Request) - 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)			
<b>CERTIFICATION</b>	Listings	ETL / cETL, CE, RoHS, UKCA		
<b>ACCESSORIES</b>	Not Included Items	Junction Box Remote (1x or 4x Output)		
		Cable UL20969 5x20 AWG (black or white) - Calumma Remote input cable		
		Cable SJTW 5x14 AWG (black or white) - main connection between Junction Boxes		
		Optical Demo Set for Calumma M (for demo purposes)		
		Outdoor Foil Holder for Calumma M „OFH“ version only (for permanent installation)		
		Optical Foil Set for Outdoor Foil Holder Calumma M		
		Land Spike for Calumma M		
		Top Hat Calumma M		
		Half Top Hat Calumma M		
		Re-enterable Electrical Insulating Resin		
Floor Stand for Calumma S, M				
Pole Adaptor (ø 102 mm) (Yoke for Pole Adaptor Required)				

**CONTROL AND CONNECTION OPTIONS**

**VIA E-BOX REMOTE**

- 1) SJTW 5x14 AWG (13053693), black  
or on request Cable SJTW 5x14 AWG (13053697), white
- 2) Junction Box Remote, (4x Output)
- 3) UL 20969 5x20 AWG (13053481), black  
or on request Cable UL 20969 5x20 AWG (13053696), white
- 4) Junction Box Remote, (1x Output)

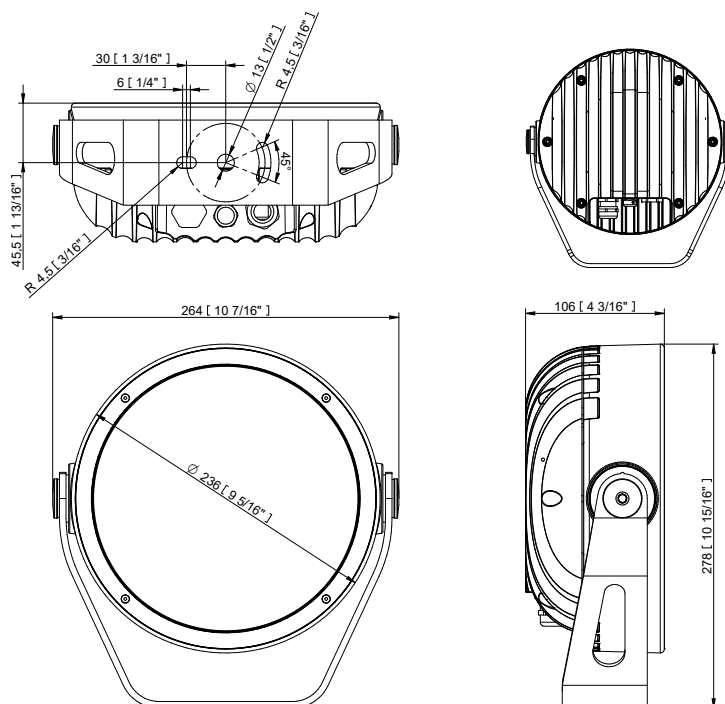


**PROJECTED AREA**

	Front (rear) - m <sup>2</sup>	Front (rear) ft <sup>2</sup>	Side - m <sup>2</sup>	Side - ft <sup>2</sup>	Top - m <sup>2</sup>	Top - ft <sup>2</sup>
<b>Calumma Remote M</b>	0.047	0.500	0.026	0.280	0.024	0.258
<b>with Top Hat</b>	0.047	0.500	0.054	0.581	0.052	0.559
<b>with Half Top Hat</b>	0.047	0.500	0.037	0.398	0.052	0.559

**DIMENSIONS**

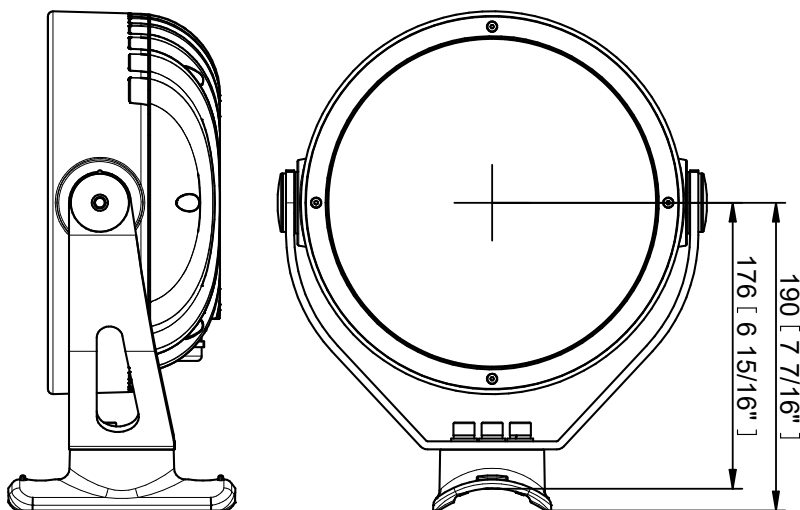
Standard Yoke



**ACCESSORIES**

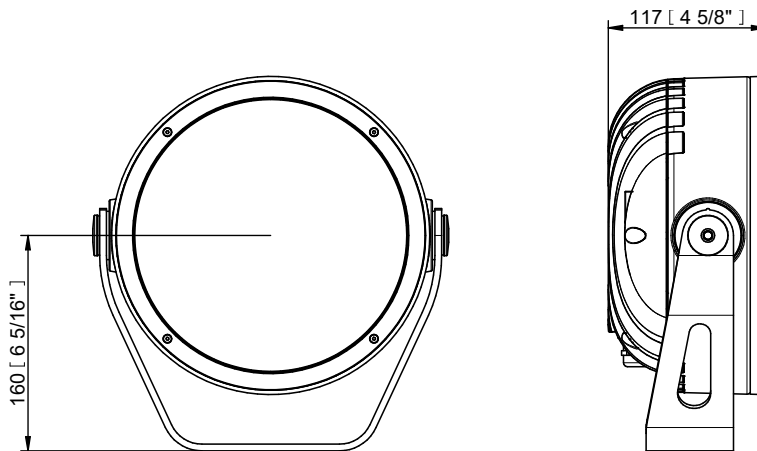
Yoke for Pole Adaptor (with Pole Adaptor / PA)

**Example of ordering code:** Calumma Remote M MC RGBCW 15° PA

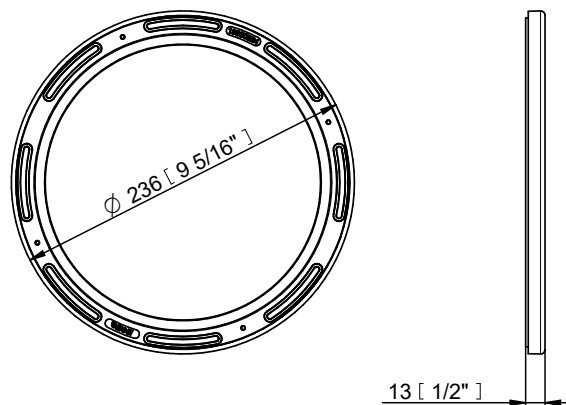


Outdoor Foil Holder for Calumma M „OFH“ version only (for permanent installation)

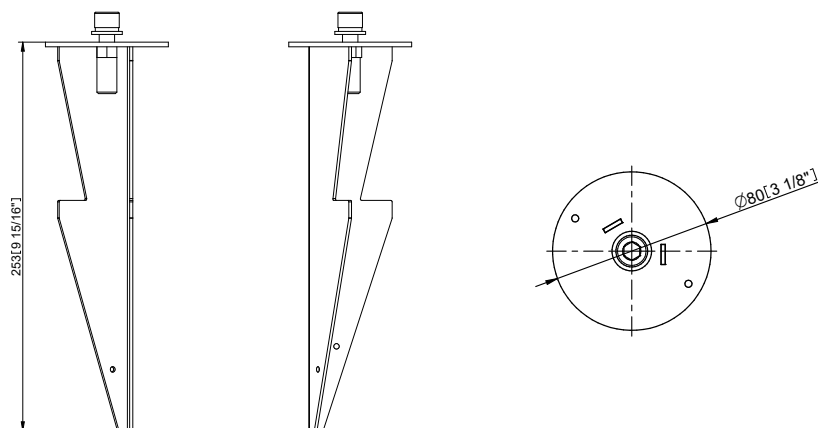
Example of ordering code: Calumma Remote M MC CE RGBCW 9° RAL9007 OFH



Outdoor Foil Holder for Calumma M

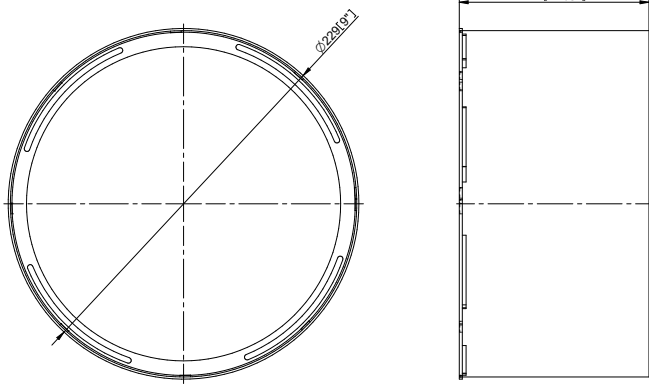


Land Spike for Calumma (S, M, L, XL)

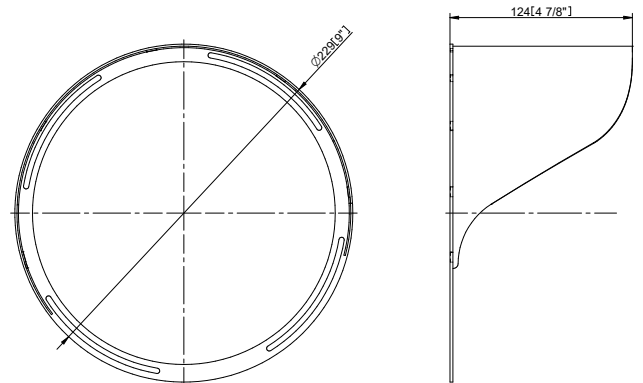


ACCESSORIES

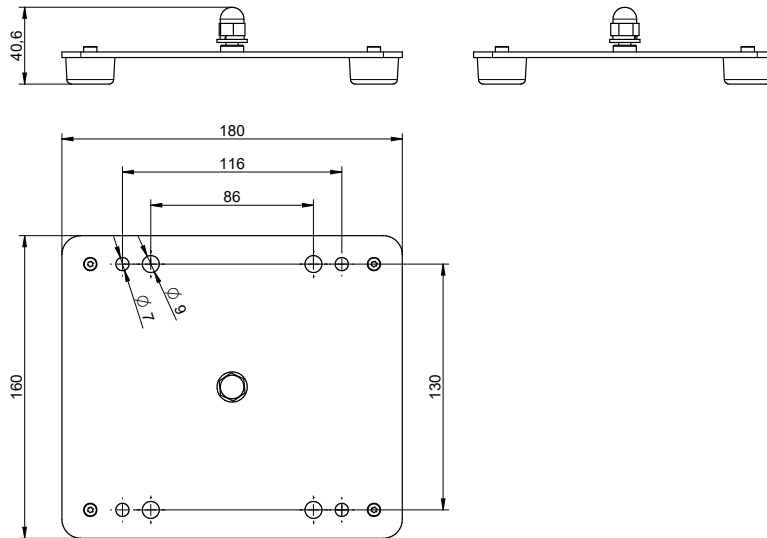
Top Hat



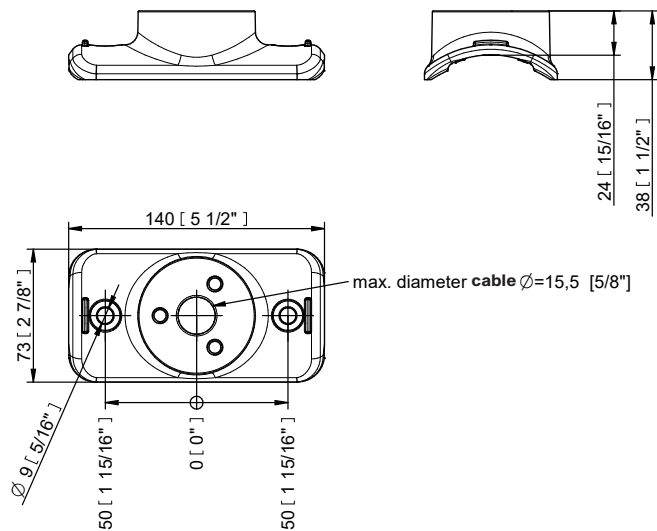
Half Top Hat



Floor Stand



Pole Adaptor

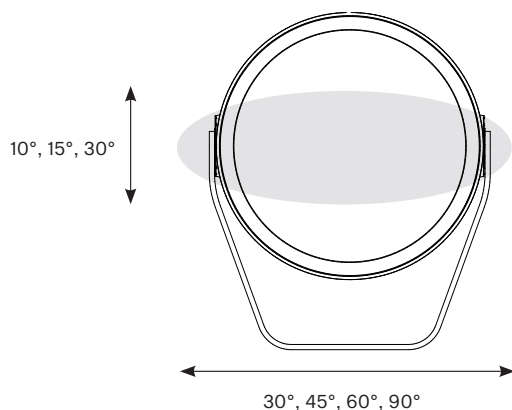


PHOTOMETRIC OVERVIEW

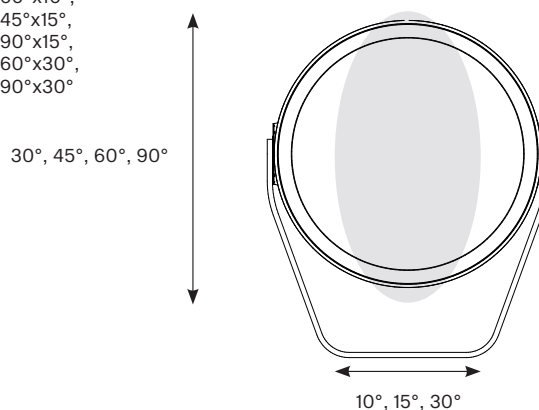
	Lumen Output (lm)		
	RGCW (W 6500 K)	RGBA	WW (W 3000 K)
9°	2328	1996	1985
15°	1980	1698	1688
25°	1981	1699	1689
30°	1949	1670	1661
45°	1975	1694	1684
65°	1977	1696	1686
100°	1954	1676	1666
10° x 30°, 30° x 10°	1871	1605	1595
10° x 60°, 60° x 10°	2080	1784	1774
15° x 45°, 45° x 15°	2122	1819	1809
30° x 60°, 60° x 30°	1964	1685	1676
30° x 90°, 90° x 30°	2123	1821	1810
15° x 90°, 90° x 15°	2108	1808	1798

BI-SYMMETRICAL BEAM ANGLES

Bi-symmetrical:  
10°x30°,  
10°x60°,  
15°x45°,  
15°x90°,  
30°x60°,  
30°x90°

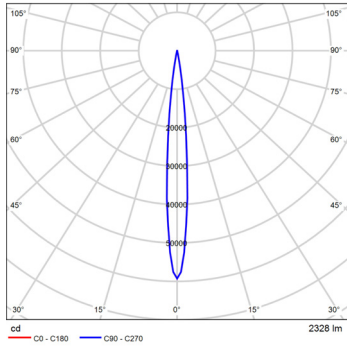


Bi-symmetrical:  
30°x10°,  
60°x10°,  
45°x15°,  
90°x15°,  
60°x30°,  
90°x30°



PHOTOMETRIC DATA

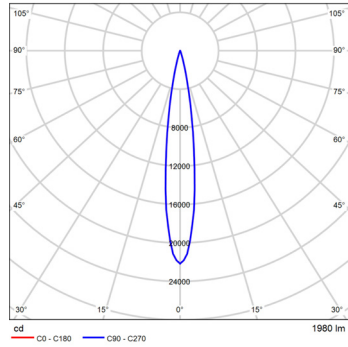
Calumma M MC RGBW 6500K 9dg



Distance [m]	Cone diameter [m]	Illuminance [lx]	E(0°) E(C0)
0.50	0.09	237030	5.0° 11785
1.0	0.17	59257	5.0° 29471
1.5	0.26	26337	5.0° 13098
2.0	0.35	14814	5.0° 7368
2.5	0.44	9481	5.0° 4715
3.0	0.52	6584	5.0° 3275

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

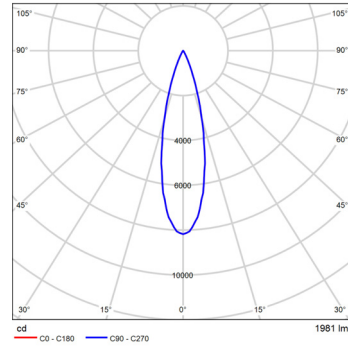
Calumma M MC RGBW 6500K 15dg



Distance [m]	Cone diameter [m]	Illuminance [lx]	E(0°) E(C0)
0.50	0.13	8860	7.6° 4312
1.0	0.27	22150	7.6° 10788
1.5	0.40	9844	7.6° 4795
2.0	0.53	5538	7.6° 2697
2.5	0.67	3544	7.6° 1726
3.0	0.80	2461	7.6° 1199

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

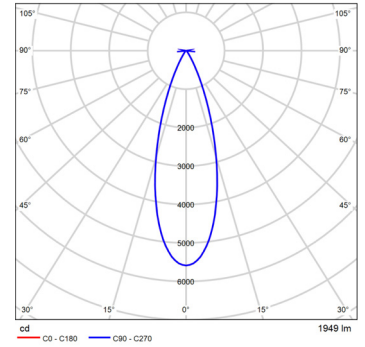
Calumma M MC RGBW 6500K 25dg



Distance [m]	Cone diameter [m]	Illuminance [lx]	E(0°) E(C0)
0.50	0.23	32713	13.0° 15204
1.0	0.46	8178	13.0° 3801
1.5	0.69	3635	13.0° 1689
2.0	0.92	2045	13.0° 950
2.5	1.2	1359	13.0° 608
3.0	1.4	909	13.0° 422

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

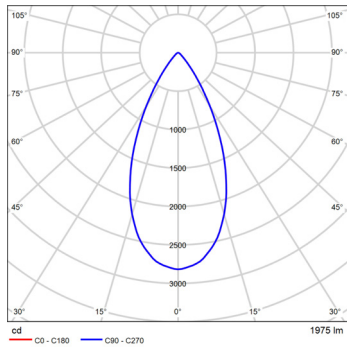
Calumma M MC RGBW 6500K 30dg



Distance [m]	Cone diameter [m]	Illuminance [lx]	E(0°) E(C0)
0.50	0.29	22341	16.0° 10003
1.0	0.57	5585	16.0° 2501
1.5	0.86	2482	16.0° 1111
2.0	1.1	1396	16.0° 625
2.5	1.4	894	16.0° 400
3.0	1.7	621	16.0° 278

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

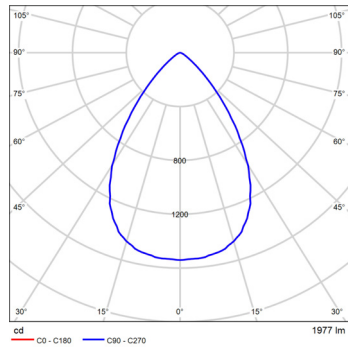
Calumma M MC RGBW 6500K 45dg



Distance [m]	Cone diameter [m]	Illuminance [lx]	E(0°) E(C0)
0.50	0.45	11266	24.4° 4262
1.0	0.91	2816	24.4° 1065
1.5	1.4	1352	24.4° 474
2.0	1.8	704	24.4° 266
2.5	2.3	451	24.4° 170
3.0	2.7	313	24.4° 118

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

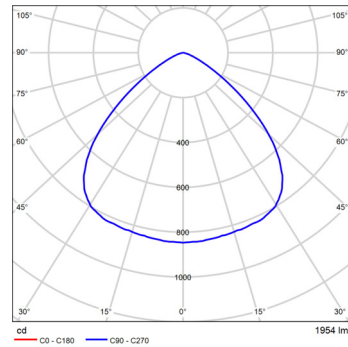
Calumma M MC RGBW 6500K 65dg



Distance [m]	Cone diameter [m]	Illuminance [lx]	E(0°) E(C0)
0.50	0.70	6163	34.9° 1710
1.0	1.4	1541	34.9° 428
1.5	2.1	685	34.9° 190
2.0	2.8	385	34.9° 107
2.5	3.5	247	34.9° 88
3.0	4.2	171	34.9° 48

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

Calumma M MC RGBW 6500K 100dg

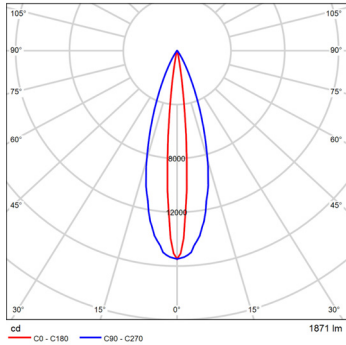


Distance [m]	Cone diameter [m]	Illuminance [lx]	E(0°) E(C0)
0.50	1.2	3389	49.7° 461
1.0	2.4	847	49.7° 115
1.5	3.5	377	49.7° 51
2.0	4.7	212	49.7° 29
2.5	5.9	136	49.7° 18
3.0	7.1	94	49.7° 13

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

PHOTOMETRIC DATA

Calumma M MC RGBW 6500K  
10x30dg

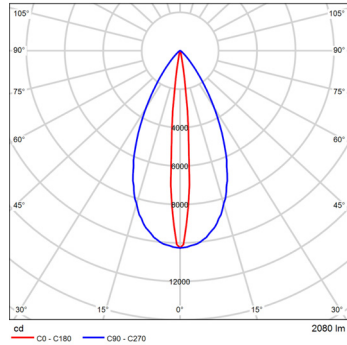


Distance [m]	Cone diameter [m]	E(I) <sup>0</sup>	E(I)C90	E(I)C0
0.50	0.25 0.09	6194	18.4	2148
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		15478	16.4	6887
1.0	0.50 0.18	15478	16.4	6887
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		6879	16.4	2061
1.5	0.88 0.27	6879	16.4	2061
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		3870	16.4	1722
2.0	1.2 0.38	3870	16.4	1722
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		2477	16.4	1102
2.5	1.5 0.46	2477	16.4	1102
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		1720	16.4	785
3.0	1.8 0.55	1720	16.4	785
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		1244	16.4	564

Distance [m]    Cone diameter [m]    Illuminance [lx]

— C0 - C180 (Beam angle: 10.4°)    — C90 - C270 (Beam angle: 32.8°)

Calumma M MC RGBW 6500K  
10x60dg

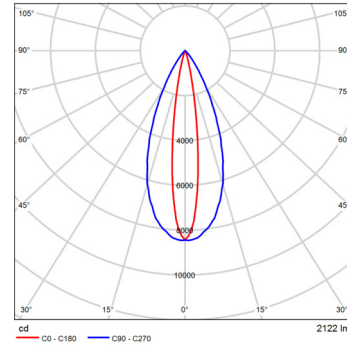


Distance [m]	Cone diameter [m]	E(I) <sup>0</sup>	E(I)C90	E(I)C0
0.50	0.50 0.09	41035	28.9	15072
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		10288	25.9	3753
1.0	0.97 0.17	10288	25.9	3753
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		4599	25.9	1668
1.5	1.5 0.26	4599	25.9	1668
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		2965	25.9	938
2.0	1.9 0.35	2965	25.9	938
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		1841	25.9	600
2.5	2.4 0.44	1841	25.9	600
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		1140	25.9	417
3.0	2.9 0.52	1140	25.9	417
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		820	25.9	370

Distance [m]    Cone diameter [m]    Illuminance [lx]

— C0 - C180 (Beam angle: 10.0°)    — C90 - C270 (Beam angle: 51.8°)

Calumma M MC RGBW 6500K  
15x45dg

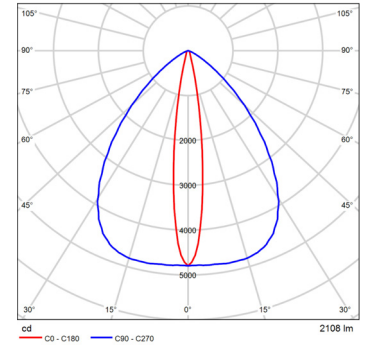


Distance [m]	Cone diameter [m]	E(I) <sup>0</sup>	E(I)C90	E(I)C0
0.50	0.40 0.14	33783	22.0	13587
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		8438	22.0	3389
1.0	0.81 0.27	8438	22.0	3389
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		3790	22.0	1629
1.5	1.2 0.41	3790	22.0	1629
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		2110	22.0	847
2.0	1.6 0.54	2110	22.0	847
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		1380	22.0	542
2.5	2.0 0.68	1380	22.0	542
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		939	22.0	377
3.0	2.4 0.81	939	22.0	377
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		658	22.0	287

Distance [m]    Cone diameter [m]    Illuminance [lx]

— C0 - C180 (Beam angle: 15.4°)    — C90 - C270 (Beam angle: 44.0°)

Calumma M MC RGBW 6500K  
15x90dg

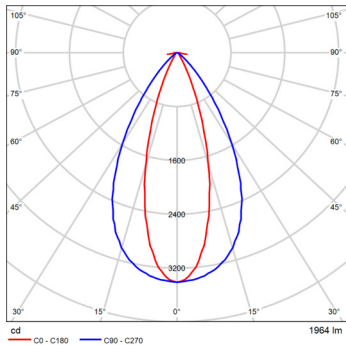


Distance [m]	Cone diameter [m]	E(I) <sup>0</sup>	E(I)C90	E(I)C0
0.50	0.88 0.13	19177	41.2	4128
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		4794	41.2	1031
1.0	1.8 0.27	4794	41.2	1031
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		2131	41.2	458
1.5	2.6 0.40	2131	41.2	458
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		1199	41.2	288
2.0	3.5 0.53	1199	41.2	288
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		787	41.2	185
2.5	4.4 0.67	787	41.2	185
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		533	41.2	115
3.0	5.3 0.80	533	41.2	115
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		283	41.2	76

Distance [m]    Cone diameter [m]    Illuminance [lx]

— C0 - C180 (Beam angle: 15.2°)    — C90 - C270 (Beam angle: 82.4°)

Calumma M MC RGBW 6500K  
30x60dg

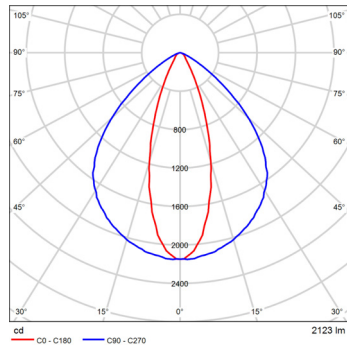


Distance [m]	Cone diameter [m]	E(I) <sup>0</sup>	E(I)C90	E(I)C0
0.50	0.57 0.28	13644	29.8	4486
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		3411	29.8	1122
1.0	1.1 0.58	3411	29.8	1122
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		1518	29.8	498
1.5	1.7 0.84	1518	29.8	498
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		853	29.8	290
2.0	2.3 1.1	853	29.8	290
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		546	29.8	179
2.5	2.9 1.4	546	29.8	179
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		379	29.8	125
3.0	3.4 1.7	379	29.8	125
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		244	29.8	86

Distance [m]    Cone diameter [m]    Illuminance [lx]

— C0 - C180 (Beam angle: 10.4°)    — C90 - C270 (Beam angle: 31.4°)

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Distance [m]	Cone diameter [m]	E(I) <sup>0</sup>	E(I)C90	E(I)C0
0.50	0.99 0.30	8589	44.8	1540
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		2147	44.8	385
1.0	2.0 0.60	2147	44.8	385
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		964	44.8	171
1.5	3.0 0.91	964	44.8	171
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		597	44.8	96
2.0	4.0 1.2	597	44.8	96
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		344	44.8	62
2.5	5.0 1.5	344	44.8	62
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		239	44.8	42
3.0	6.0 1.8	239	44.8	42
		E(I) <sup>0</sup>	E(I)C90	E(I)C0
		105	44.8	28

Distance [m]    Cone diameter [m]    Illuminance [lx]

— C0 - C180 (Beam angle: 15.4°)    — C90 - C270 (Beam angle: 69.6°)