

# 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.

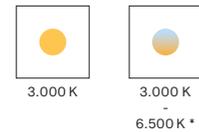
## COLOURS

\* UPON REQUEST



## COLOUR TEMPERATURE

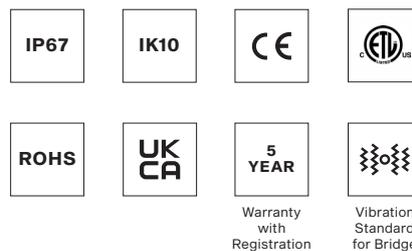
\* UPON REQUEST



## CONTROL & PROTOCOLS



## STANDARD & SPECIFICATION



## FINISH OPTIONS

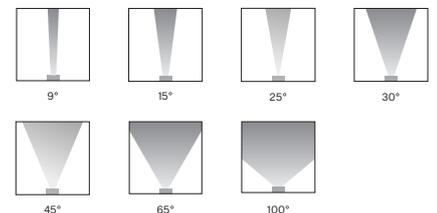
\* CLOSEST RAL TONE

\* HE = Harsh Environment

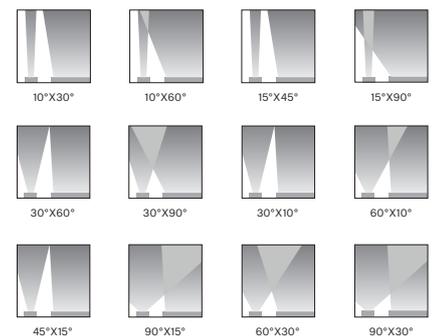


## OPTIC OPTIONS

### SYMMETRICAL



### BI-SYMMETRICAL



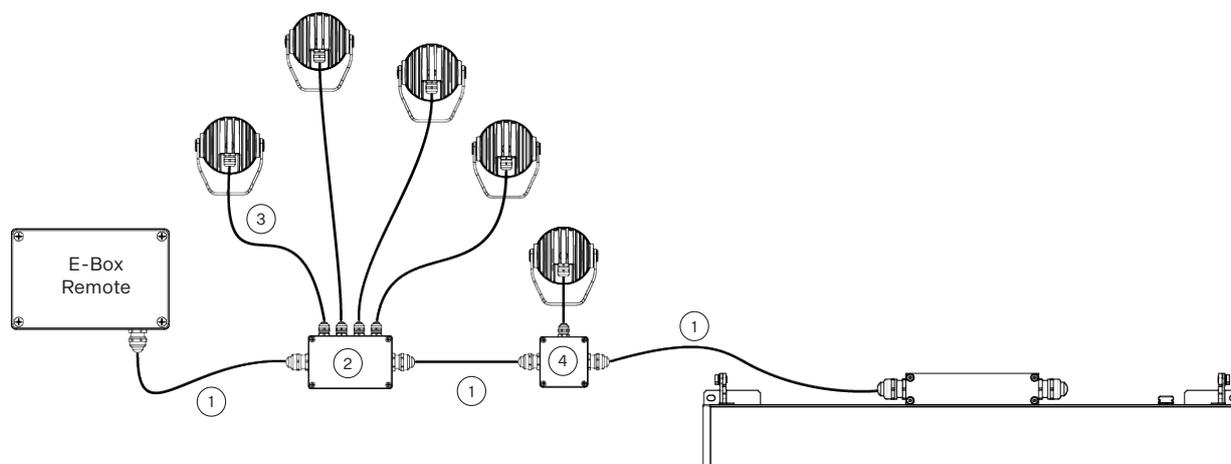
**SPECIFICATION**

<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   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	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)

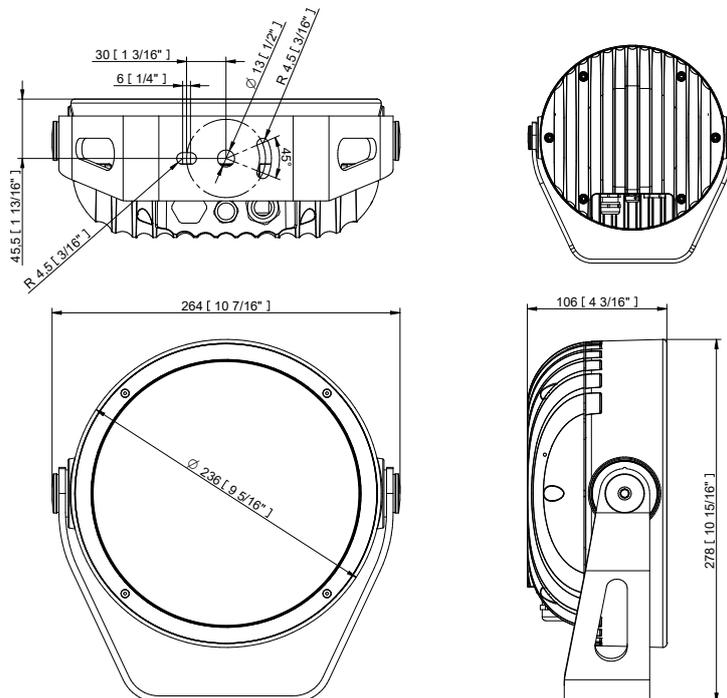


**PROJECTED AREA**

	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**

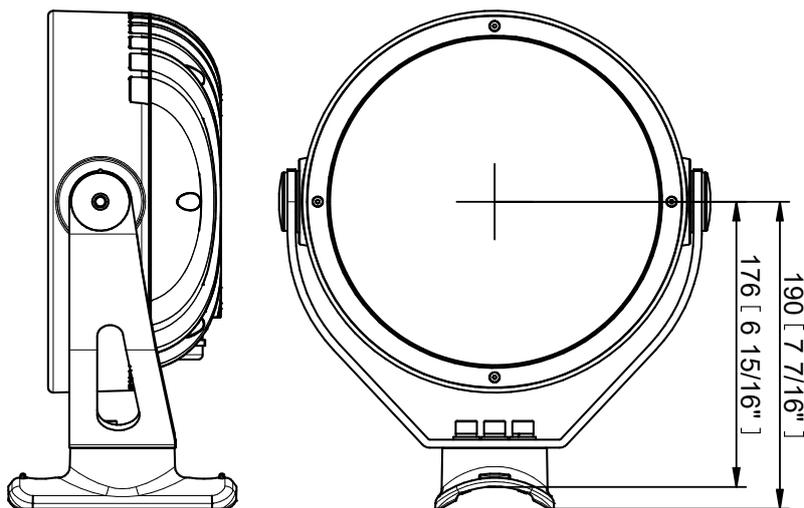
Standard Yoke



**ACCESSORIES**

Yoke for Pole Adaptor (with Pole Adaptor / PA)

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

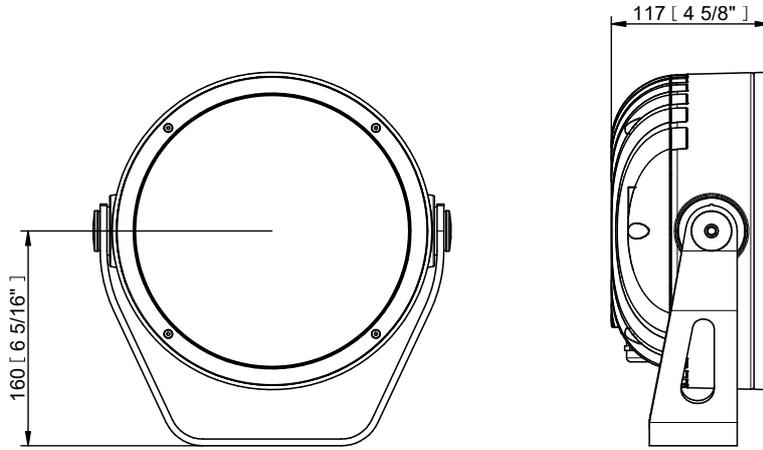


# SPECIFICATION SHEET

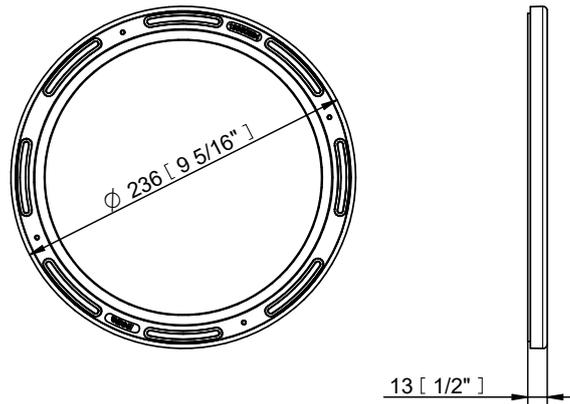
## CALUMMA REMOTE M MC

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

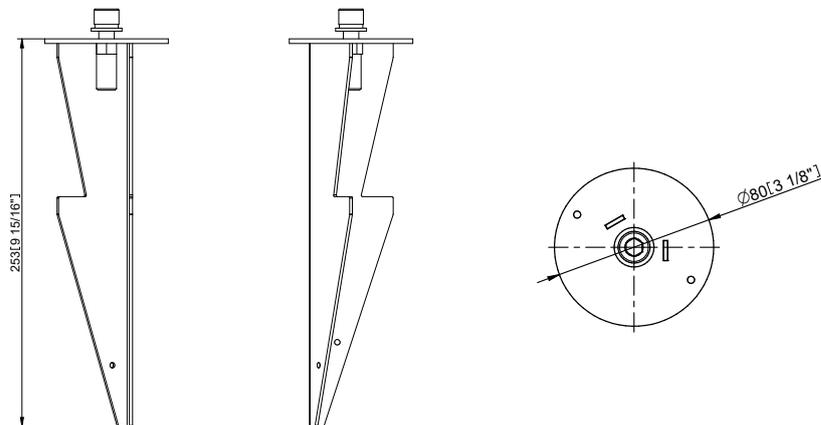
**Example of ordering code:** Calumma Remote M MC CE RGBCW 9° RAL9007 OFH



Outdoor Foil Holder for Calumma M

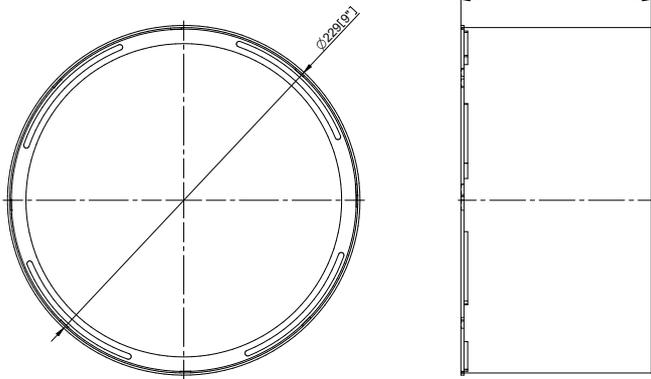


Land Spike for Calumma (S, M, L, XL)

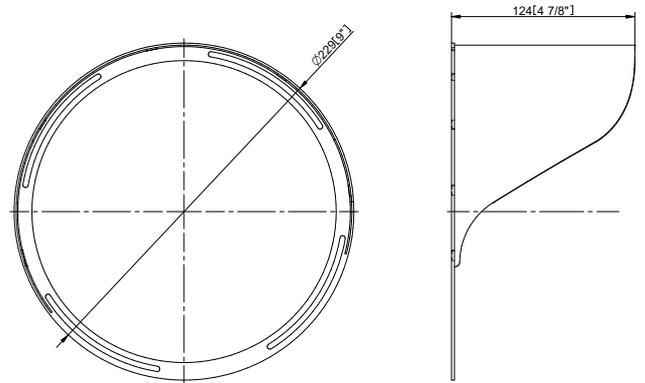


ACCESSORIES

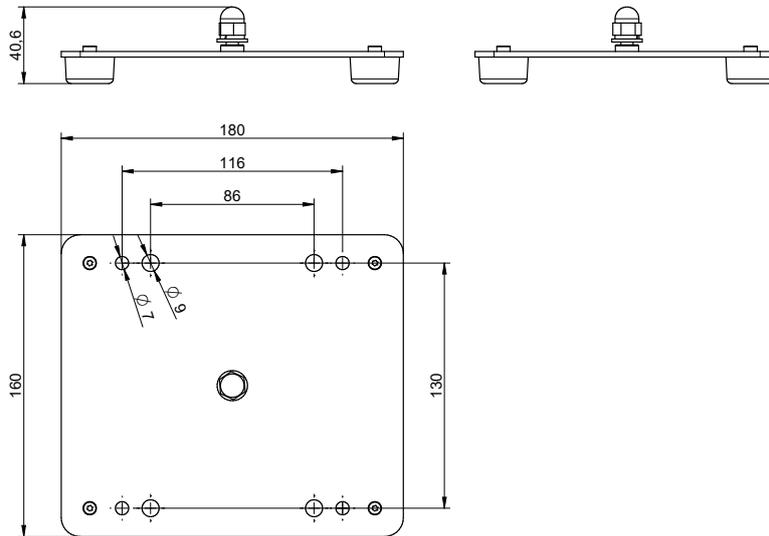
Top Hat



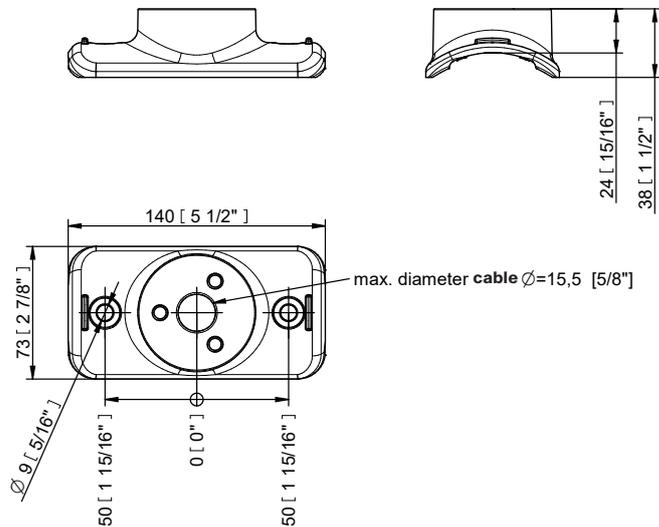
Half Top Hat



Floor Stand



Pole Adaptor

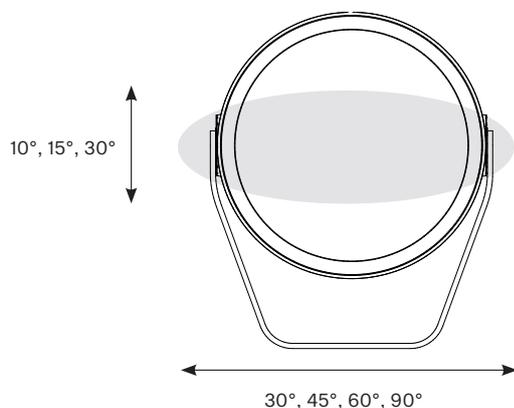


PHOTOMETRIC OVERVIEW

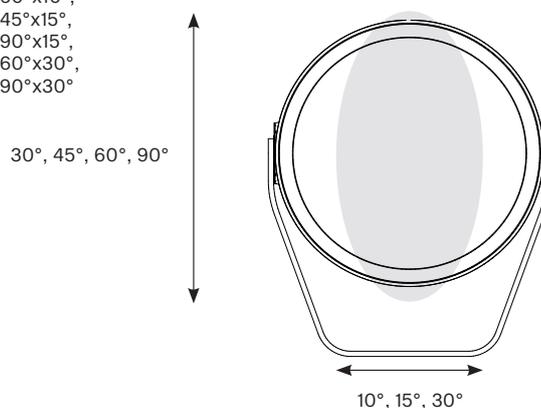
	Lumen Output (lm)		
	RGCW (W 6500 K)	RGBA	WW (W 3000 K)
9°	2328	1996	1985
15°	1980	1698	1688
25°	1981	1699	1689
30°	1949	1670	1661
45°	1975	1694	1684
65°	1977	1696	1686
100°	1954	1676	1666
10° x 30°, 30° x 10°	1871	1605	1595
10° x 60°, 60° x 10°	2080	1784	1774
15° x 45°, 45° x 15°	2122	1819	1809
30°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

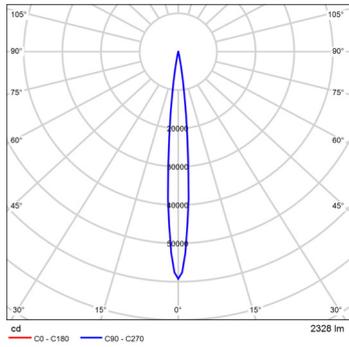


Bi-symmetrical:  
30°x10°,  
60°x10°,  
45°x15°,  
90°x15°,  
60°x30°,  
90°x30°

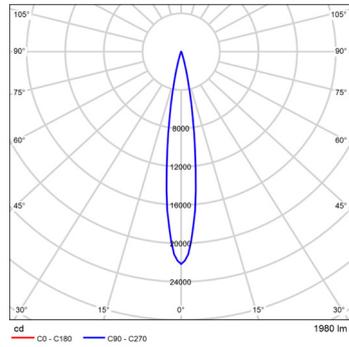


PHOTOMETRIC DATA

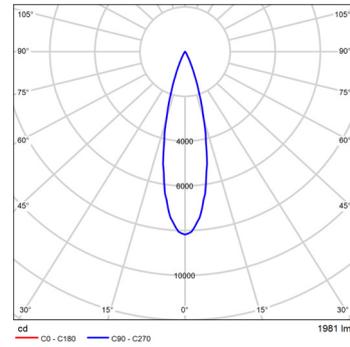
Calumma M MC RGBW 6500K 9dg



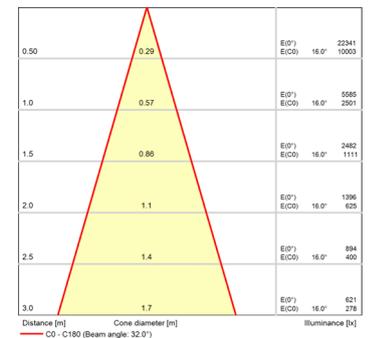
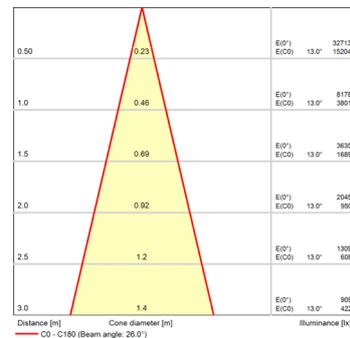
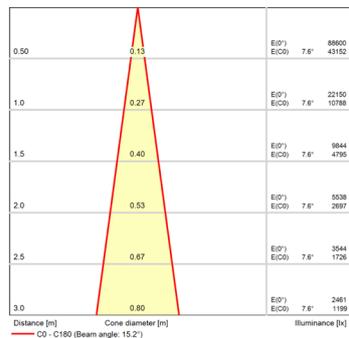
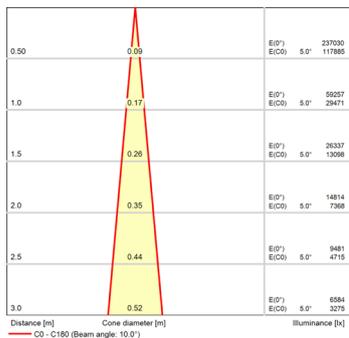
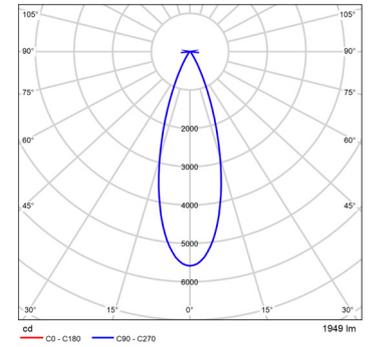
Calumma M MC RGBW 6500K 15dg



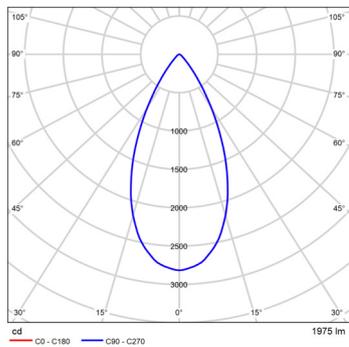
Calumma M MC RGBW 6500K 25dg



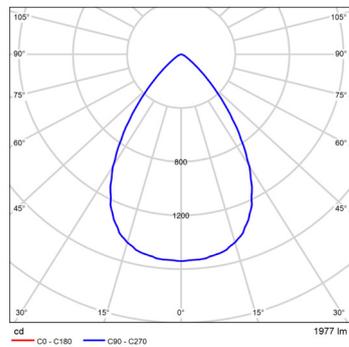
Calumma M MC RGBW 6500K 30dg



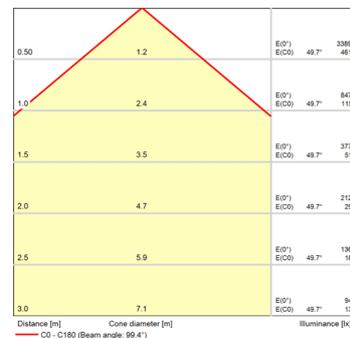
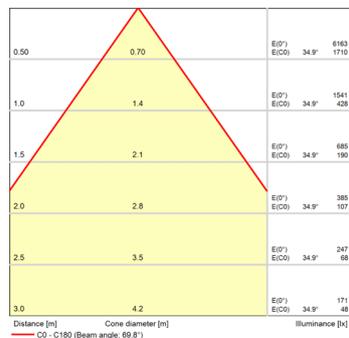
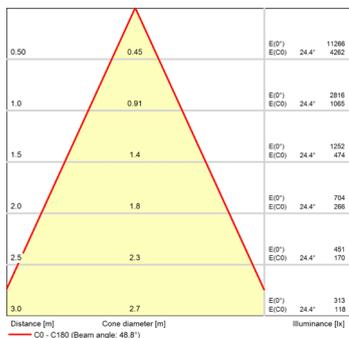
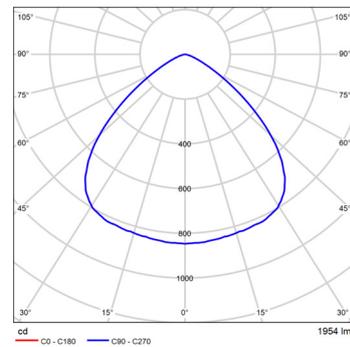
Calumma M MC RGBW 6500K 45dg



Calumma M MC RGBW 6500K 65dg

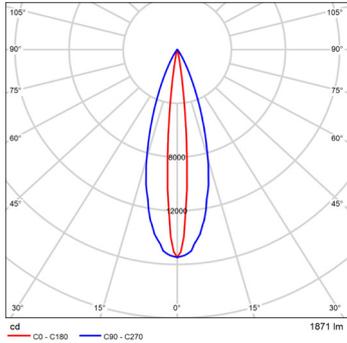


Calumma M MC RGBW 6500K 100dg



PHOTOMETRIC DATA

Calumma M MC RGBW 6500K  
10x30dg

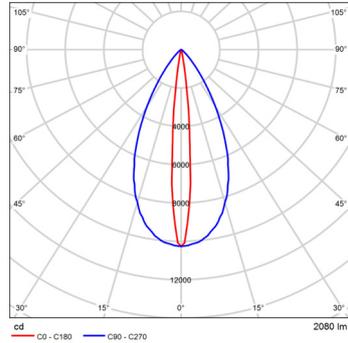


Distance [m]	Cone diameter [m]	E(0°)	E(C90)	E(C0)	Illuminance [lx]
0.50	0.25 0.09	6194	18.4	2148	
		E(C0)	5.2°	3189	
1.0	0.53 0.18	15478	16.4	6887	
		E(C0)	5.2°	7772	
1.5	0.88 0.27	6879	16.4	3061	
		E(C0)	5.2°	3454	
2.0	1.2 0.38	3870	16.4	1722	
		E(C0)	5.2°	1943	
2.5	1.5 0.46	2477	16.4	1102	
		E(C0)	5.2°	1244	
3.0	1.8 0.55	1720	16.4	785	
		E(C0)	5.2°	864	

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

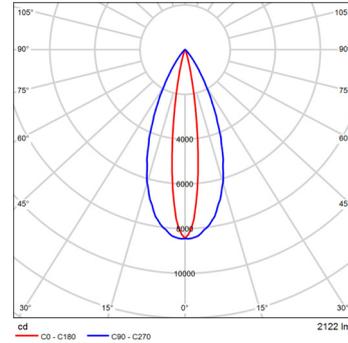


Distance [m]	Cone diameter [m]	E(0°)	E(C90)	E(C0)	Illuminance [lx]
0.50	0.50 0.09	41035	29.9°	19172	
		E(C0)	5.0°	20208	
1.0	0.97 0.17	10289	29.9°	3753	
		E(C0)	5.0°	5197	
1.5	1.5 0.26	4599	29.9°	1668	
		E(C0)	5.0°	2279	
2.0	1.9 0.35	2965	29.9°	938	
		E(C0)	5.0°	1382	
2.5	2.4 0.44	1841	29.9°	600	
		E(C0)	5.0°	820	
3.0	2.9 0.52	1140	29.9°	417	
		E(C0)	5.0°	570	

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

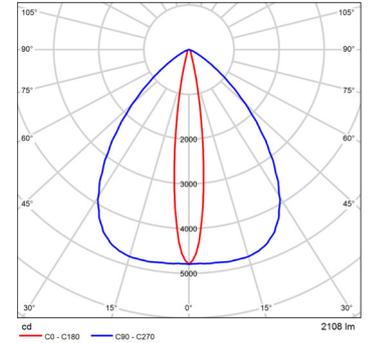


Distance [m]	Cone diameter [m]	E(0°)	E(C90)	E(C0)	Illuminance [lx]
0.50	3.40 0.14	33783	22.0°	15857	
		E(C0)	7.7°	16458	
1.0	0.81 0.27	8438	22.0°	3389	
		E(C0)	7.7°	4114	
1.5	1.2 0.41	3790	22.0°	1847	
		E(C0)	7.7°	1029	
2.0	1.6 0.54	2110	22.0°	847	
		E(C0)	7.7°	1029	
2.5	2.0 0.68	1380	22.0°	542	
		E(C0)	7.7°	658	
3.0	2.4 0.81	939	22.0°	377	
		E(C0)	7.7°	457	

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

— C0 - C180 (Beam angle: 15.6°)    — C90 - C270 (Beam angle: 44.0°)

Calumma M MC RGBW 6500K  
15x90dg

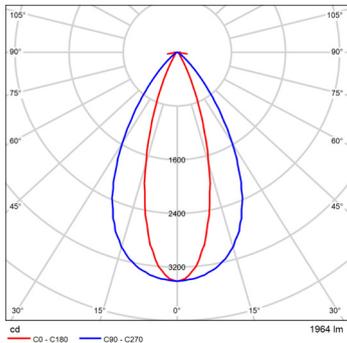


Distance [m]	Cone diameter [m]	E(0°)	E(C90)	E(C0)	Illuminance [lx]
0.50	0.80 0.13	19177	41.2°	4125	
		E(C0)	7.6°	5840	
1.0	1.6 0.27	4794	41.2°	1031	
		E(C0)	7.6°	2383	
1.5	2.4 0.40	2131	41.2°	588	
		E(C0)	7.6°	1050	
2.0	3.2 0.53	1199	41.2°	388	
		E(C0)	7.6°	591	
2.5	4.0 0.67	767	41.2°	288	
		E(C0)	7.6°	378	
3.0	4.8 0.80	533	41.2°	215	
		E(C0)	7.6°	263	

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

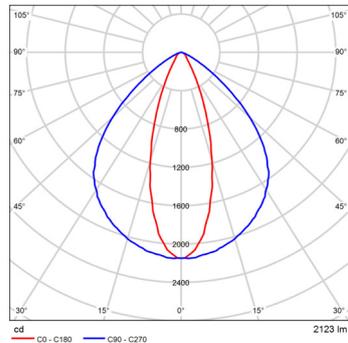


Distance [m]	Cone diameter [m]	E(0°)	E(C90)	E(C0)	Illuminance [lx]
0.50	0.57 0.28	13644	29.8°	4486	
		E(C0)	15.7°	6091	
1.0	1.1 0.58	3411	29.8°	1122	
		E(C0)	15.7°	1523	
1.5	1.7 0.84	1516	29.8°	498	
		E(C0)	15.7°	677	
2.0	2.3 1.1	853	29.8°	290	
		E(C0)	15.7°	381	
2.5	2.9 1.4	546	29.8°	179	
		E(C0)	15.7°	244	
3.0	3.4 1.7	379	29.8°	125	
		E(C0)	15.7°	169	

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

— C0 - C180 (Beam angle: 31.4°)    — C90 - C270 (Beam angle: 39.8°)

Calumma M MC RGBW 6500K  
30x90dg



Distance [m]	Cone diameter [m]	E(0°)	E(C90)	E(C0)	Illuminance [lx]
0.50	0.99 0.30	8589	44.8°	1540	
		E(C0)	18.8°	2173	
1.0	2.0 0.60	2147	44.8°	385	
		E(C0)	18.8°	543	
1.5	3.0 0.91	964	44.8°	171	
		E(C0)	18.8°	419	
2.0	4.0 1.2	597	44.8°	96	
		E(C0)	18.8°	236	
2.5	5.0 1.5	344	44.8°	62	
		E(C0)	18.8°	151	
3.0	6.0 1.8	239	44.8°	42	
		E(C0)	18.8°	105	

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

— C0 - C180 (Beam angle: 33.8°)    — C90 - C270 (Beam angle: 49.8°)