

CALUMMA™ XS MC

Using a single high-power, multi-chip LED inside a compact, elegant, and durable housing, the smallest Calumma is a great choice for many different lighting applications. Complementing both outdoor environments and interior designs, its wide range of beam angles, LED chip colour variant options and accessories make the Calumma XS MC an ideal, extra small lighting solution for any architectural design.



KEY FEATURES

Lumen output & Light source

Luminaire with one high-power, multi-chip LED provides light output up to 333 lumens with an efficacy of 33 lm/w. Offering a choice of multiple LED colour variants, precise beam control with no light spill, and perfectly homogenised light output, it's an excellent solution for applications requiring high performance in a compact luminaire.

Design & Durability

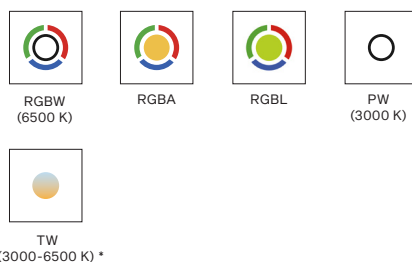
Lightweight, compact, durable and stylish housing made of high-pressure die cast aluminium. IP67 and IK10 certification; suitable for marine applications (Harsh Environment Finish required) and traffic applications. Supported with a 5 year warranty.

Flexibility

An exceptionally compact luminaire available with a wide range of accessories, custom colour finishes, LED choices, and beam angle options, Calumma XS offers the lighting designer a flexible solution for the most demanding applications.

COLOURS

* UPON REQUEST

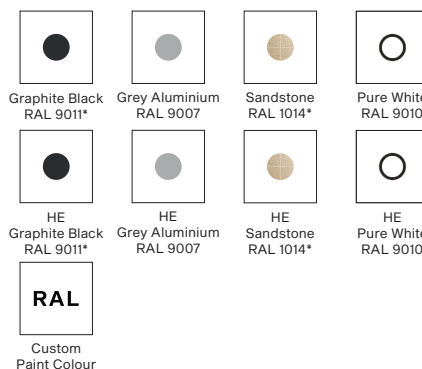


CONTROL & PROTOCOLS



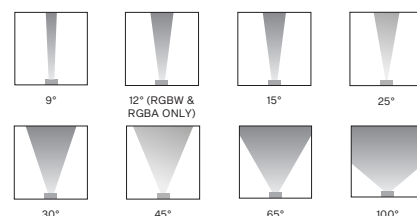
FINISH OPTIONS

* CLOSEST RAL TONE
* HE = Harsh Environment

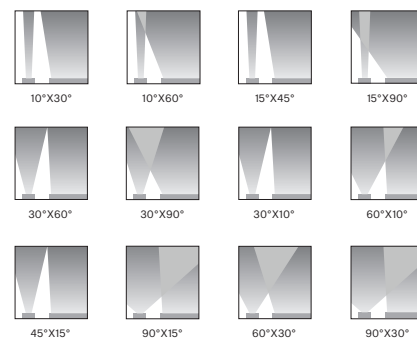


OPTIC OPTIONS

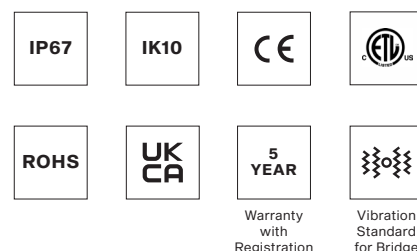
SYMMETRICAL



BI-SYMMETRICAL



STANDARD & SPECIFICATION



SPECIFICATION

ELECTRICAL	Typical Power Consumption	10 W	
	Input Voltage	48 V +/-10 %	
OPTICAL	Light Source	High Power Multichip LED	
	Colour Variants	RGBW (W - 6500 K) RGBA RGBL Pure White (W - 3000 K) On Request: Tuneable White (3000–6500 K)	
	Beam Angle	9° 12° (RGBW & RGBA only) 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	333 lm (@9°RGBW)	
	Projected Lumen Maintenance	L90B10 >90.000 hrs, Ta = 25°C / 77°F	
CONTROL	Interface protocol	Via E-box Remote or E-box Remote Basic	
	E-Box Remote control protocol	USITT DMX512/RDM, ArtNet, MA Net, MA Net2, sACN, Kling-Net	
	Setting / adresssing	E-box Remote, RDM communicator	
	Connectivity & Power Supply	E-Box Remote Remote Basic	
PHYSICAL	Width x Height x Depth	94 x 108 x 76 mm (3.7 x 4.2 x 2.99 in.)	
	Weight	0.59 kg 1.3 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
	Mounting Method	Yoke or Yoke for Pole Adaptor	
	Adjustability	+180° / -180°	
	Protection Factor	IP67 (IP66 Junction Box) / 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	Optical Demo Set for Calumma XS (for demo purposes)	
		Outdoor Foil Holder for Calumma XS (for permanent installation)	
		Optical Foil Set for Outdoor Foil Holder Calumma XS	
		Re-enterable Electrical Insulating Resin	
		Land Spike for Calumma XS	
		Top Hat Calumma XS	
		Half Top Hat Calumma XS	
		Twin Wall Cover Calumma XS	
		Pole Adaptor (ø 102 mm) (Yoke for Pole Adaptor Required)	

ACCESSORIES	DMX CONNECTOR SOLUTION	Cable CE (5x20 AWG), 0.1 m, with connector MINI-05 FF (13053978)
		Cable CE (5x20 AWG), 0.5 m, with connector MINI-05 MM (13053935-03)
		T-connector MINI-05 MFF (13053941-01)
		T-connector MID-05 MFF (13054130)
		Field Installable Connector MID-05 MM (14–22 AWG) - (13054126)
		Adaptor MINI2MID (13054150)
		Adaptor MID2MINI (13054149)
		Waterproof Cap for connector MINI-05 FF (13053943)
		Cable SJTW (5x14 AWG), standard with bare-end, black (13053336)
		Cable SJTW (5x14 AWG), standard with bare-end, white (on request) - (13053697)
Not Included Items	DMX BARE-END SOLUTION	Jumper Cable CE/US MID-05 MM/FF (14 AWG) - 0.5/1/3/5/10 m
		Jumper Cable MINI-05 FF/MM (20 AWG), 0.5 m (13053937-02) - 0.5/1/3/5/10 m
		Cable SJTW (5x14 AWG), standard with bare-end, black (13053336)
		Cable SJTW (5x14 AWG), standard with bare-end, white (on request) - (13053697)
		Cable UL 20969 (5x20 AWG), 1 m, (13053481), black
		Cable UL 20969 (5x20 AWG), 1 m, (13053696), white (on request)
		Junction Box Remote (1x Output) - (10980715)
		Junction Box Remote (4x Output) - (10980716)

CONTROL AND CONNECTION OPTIONS (CE)

DMX/RDM SETUP WITH CONNECTORS

MINI Connector Wiring Diagram

- 1)

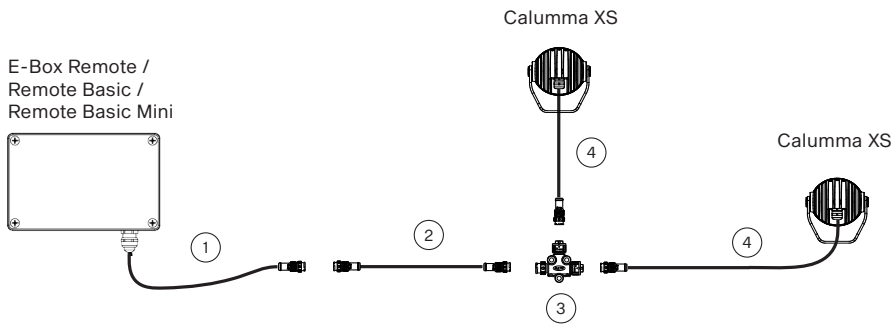
Cable CE (5x20 AWG), 0.1 m, with connector MINI-05 FF (13053978)
- 2)

Jumper Cable MINI-05 FF/MM (20 AWG), 0.5 m (13053937-02)
- 3)

T-connector MINI-05 MFF (13053941-01)
- 4)

Cable CE (5x20 AWG), 0.5 m, with connector MINI-05 MM (13053935-03)

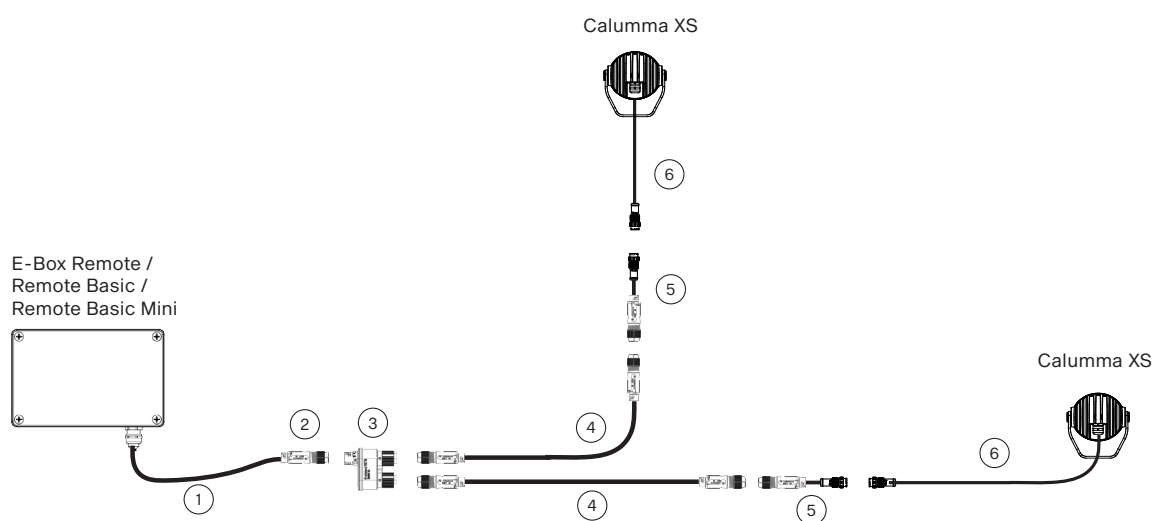
Note: The last unmated connector must be fitted with an Waterproof Cap to protect the IP rating.



MID/MINI Connector Wiring Diagram

- 1) Cable SJTW (5x14 AWG), standard with bare-end, black (13053336)
- 2) Field Installable Connector MID-05 FF (14–22 AWG) - (13054127)
- 3) T-connector MID-05 MFF (13054130)
- 4) Jumper Cable CE/US MID-05 FF/MM (5x14 AWG), 0.5 m (13054131)
- 5) Adaptor MID2MINI (13054149)
- 6) Cable CE (5x20 AWG), 0.5 m, with connector MINI-05 MM (13053935-03)

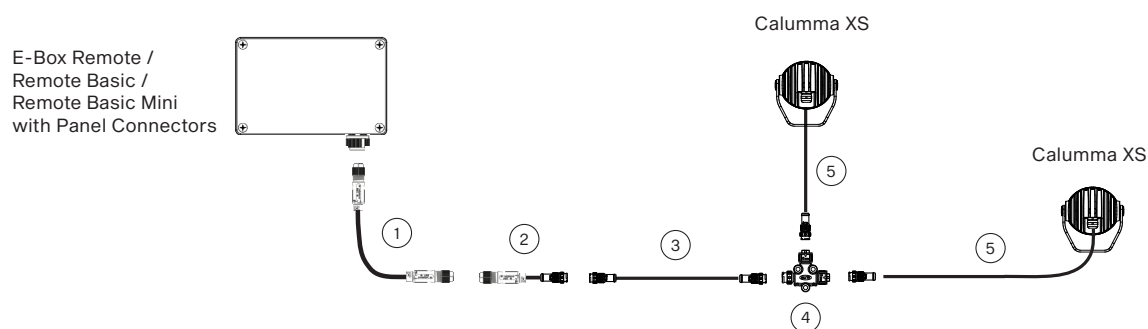
Note: The last unmated connector must be fitted with an Waterproof Cap to protect the IP rating.



MID/MINI Connector Wiring Diagram with Panel Connector

- 1) Jumper Cable CE/US MID-05 FF/MM (5x14 AWG), 0.5 m (13054131)
- 2) Adaptor MID2MINI (13054149)
- 3) Jumper Cable MINI-05 FF/MM (20 AWG), 0.5 m (13053937-02)
- 4) T-connector MINI-05 MFF (13053941-01)
- 5) Cable CE (5x20 AWG), 0.5 m, with connector MINI-05 MM (13053935-03)

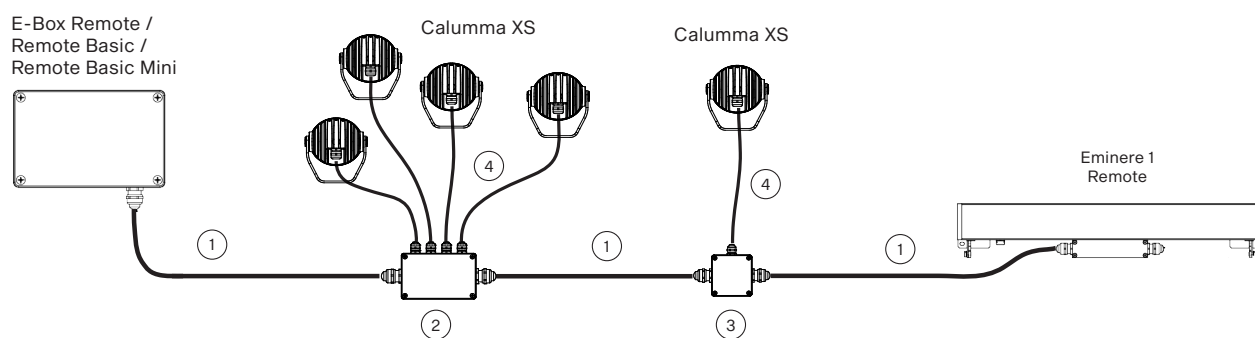
Note: The last unmated connector must be fitted with an Waterproof Cap to protect the IP rating.



DMX/RDM SETUP WITH BARE-END FIXTURES

- 1) Cable SJTW (5x14 AWG), standard with bare-end, black (13053336)
- 2) Junction Box Remote (4x Output) - (10980716)
- 3) Junction Box Remote (1x Output) - (10980715)
- 4) Cable UL 20969 (5x20 AWG), black, (13053481)

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



CONNECTIVITY

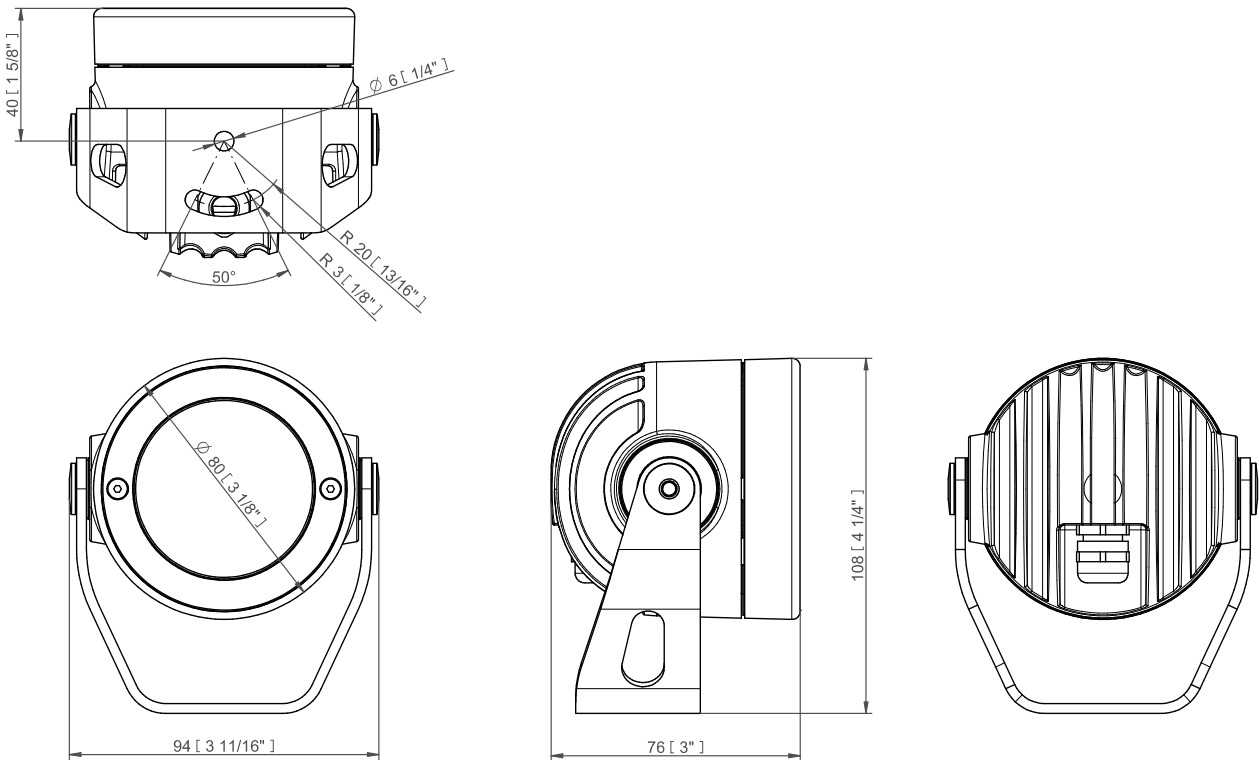
Following table shows maximum connected Calummas XS SC in a row with respect of cable length.

Cable length	Per E-Box Remote	Per 1 LED output
50 m (max per 1 output)	40 pcs	20 pcs
100 m (total length, 2x output)		20 pcs

PROJECTED AREA

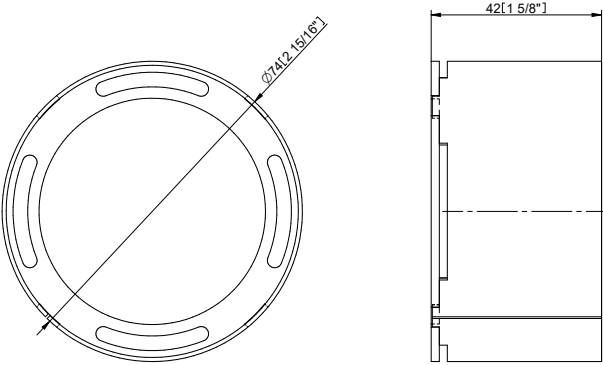
	Front (rear) - m²	Front (rear) ft²	Side - m²	Side - ft²	Top - m²	Top - ft²
Calumma XS	0.006	0.065	0.007	0.070	0.006	0.065
with Top Hat	0.006	0.065	0.014	0.151	0.014	0.151
with Half Top Hat	0.006	0.065	0.008	0.082	0.014	0.151

DIMENSIONS

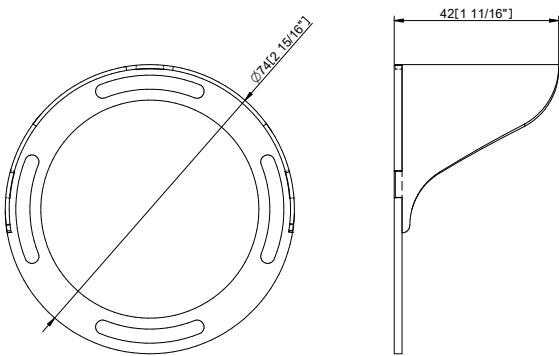


ACCESSORIES

Top Hat

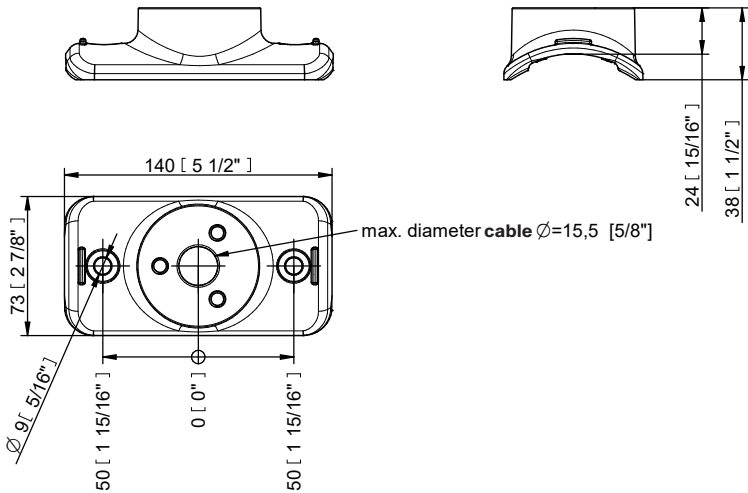


Half Top Hat

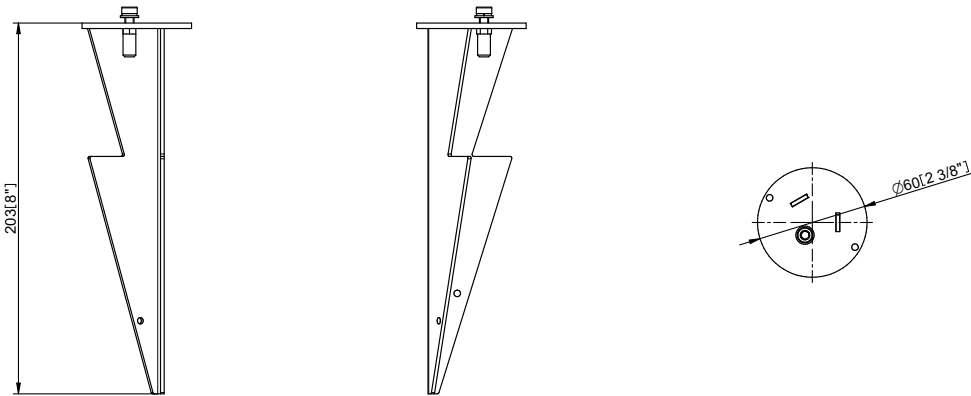


Pole Adaptor (ø 102 mm, Yoke for pole Adaptor Required / PA)

Example of ordering code: Calumma XS MC RBCW 15° PA



Land Spike for Calumma XS

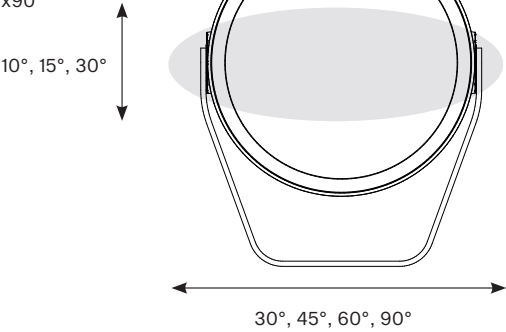


PHOTOMETRIC OVERVIEW

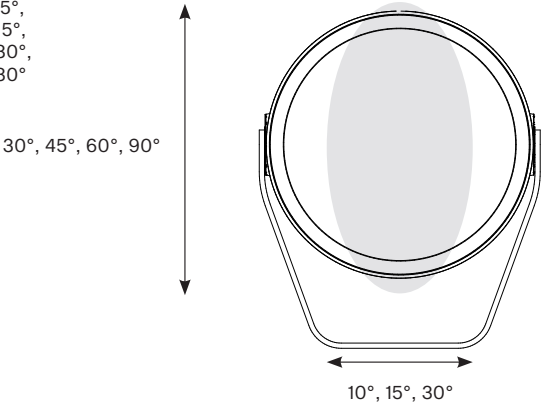
	Lumen Output (lm)		
	RGBCW (W 6500 K)	RGBA	WW (W 3000 K)
9°	333	285	283
12°	368	315	313
15°	283	243	241
25°	283	243	242
30°	278	238	237
45°	283	243	242
65°	283	243	242
100°	279	239	238
10° x 30°, 30° x 10°	267	229	228
10° x 60°, 60° x 10°	297	255	254
15° x 45°, 45° x 15°	303	259	258
30° x 60°, 60° x 30°	281	240	239
30° x 90°, 90° x 30°	302	258	257
15° x 90°, 90° x 15°	301	258	257

BI-SYMMETRICAL BEAM ANGLES

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

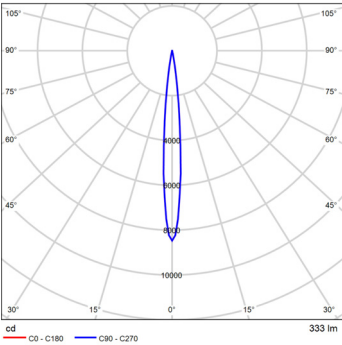


Bi-symmetrical:
30°x10°,
60°x10°,
45°x15°,
90°x15°,
60°x30°,
90°x30°

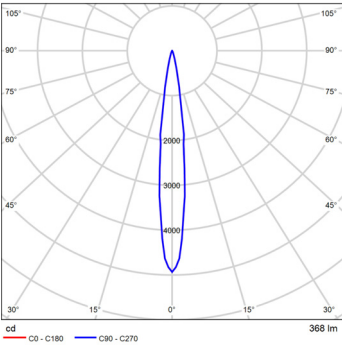


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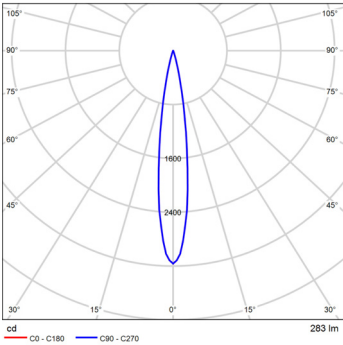
Calumma XS MC RGBW 6500K 9dg



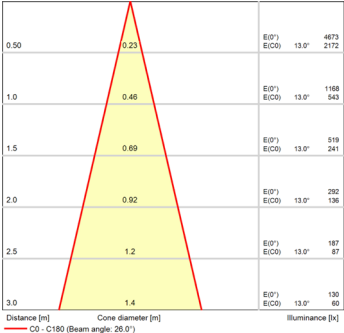
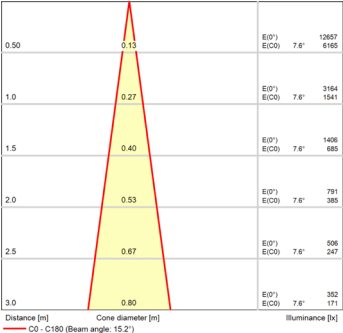
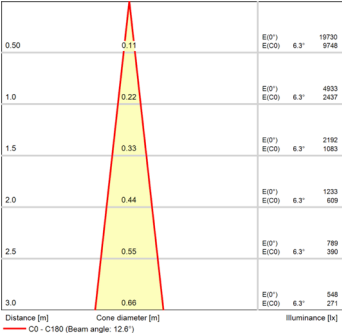
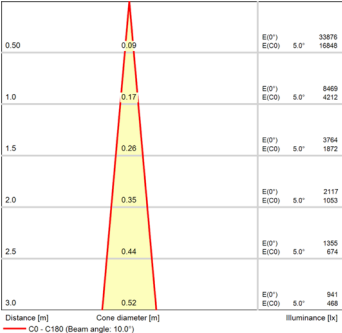
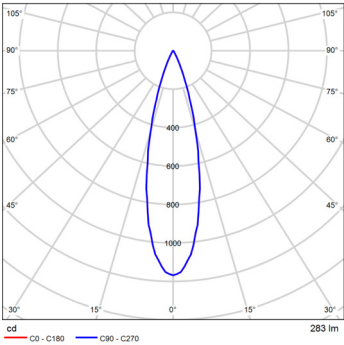
Calumma XS MC RGBW 6500K 12dg



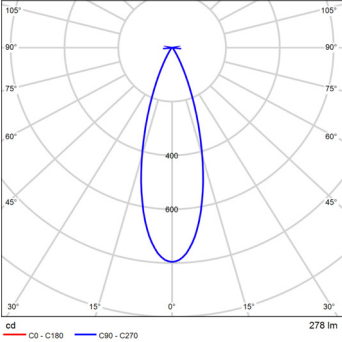
Calumma XS MC RGBW 6500K 15dg



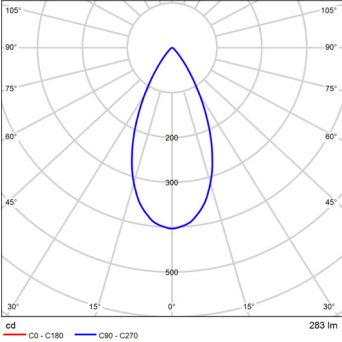
Calumma XS MC RGBW 6500K 25dg



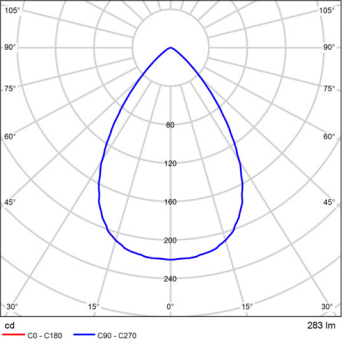
Calumma XS MC RGBW 6500K 30dg



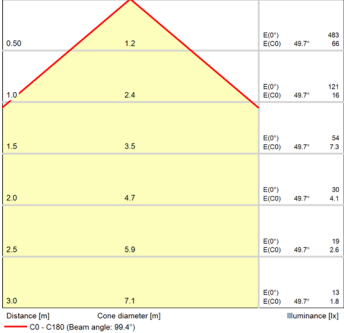
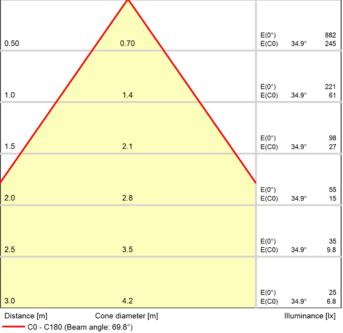
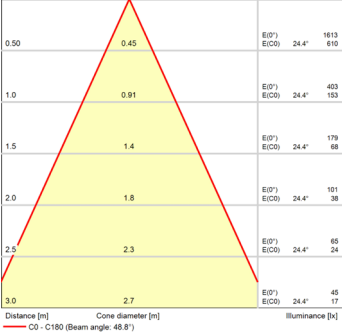
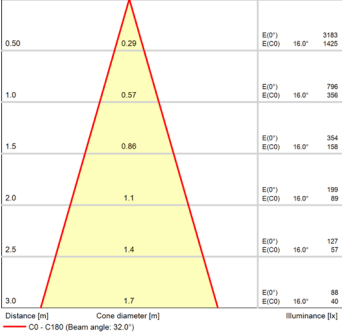
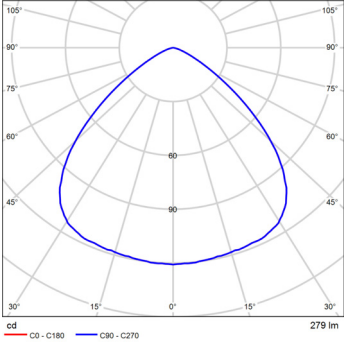
Calumma XS MC RGBW 6500K 45dg



Calumma XS MC RGBW 6500K 65dg

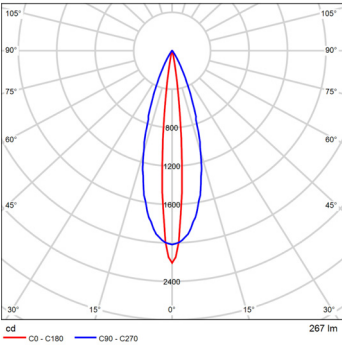


Calumma XS MC RGBW 6500K 100dg



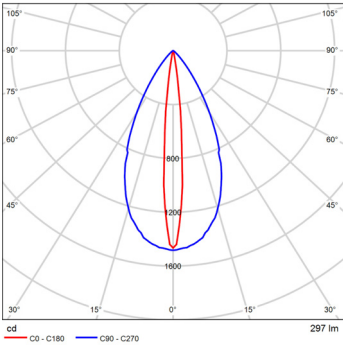
PHOTOMETRIC DATA

Calumma XS MC RGBW 6500K
10x30dg



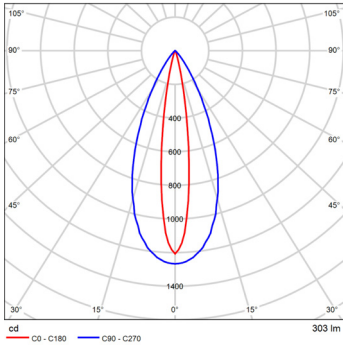
Distance [m]	Cone diameter [m]	Illuminance [lx]	E(0°)	E(C90)	E(C180)
0.50	0.35 0.09	8831	16.7°	3860	4494
1.0	0.69 0.18	2208	16.7°	890	1108
1.5	0.90 0.27	981	16.7°	396	493
2.0	1.2 0.36	552	16.7°	223	277
2.5	1.5 0.46	353	16.7°	142	177
3.0	1.8 0.55	245	16.7°	99	123
Distance [m] Cone diameter [m] Illuminance [lx]					
C0 - C180 (Beam angle: 10.4°)					
C90 - C270 (Beam angle: 33.4°)					

Calumma XS MC RGBW 6500K
10x60dg



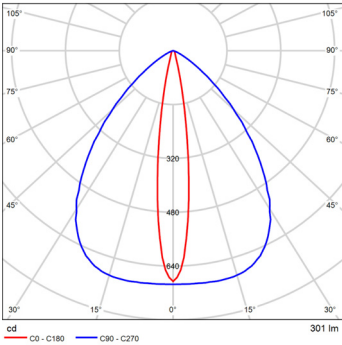
Distance [m]	Cone diameter [m]	Illuminance [lx]	E(0°)	E(C90)	E(C180)
0.50	0.45 0.09	5862	28.3°	2146	2330
1.0	0.99 0.17	1466	28.3°	536	732
1.5	1.5 0.26	651	28.3°	238	326
2.0	2.0 0.35	366	28.3°	134	183
2.5	2.5 0.44	234	28.3°	88	117
3.0	3.0 0.52	163	28.3°	60	81
Distance [m] Cone diameter [m] Illuminance [lx]					
C0 - C180 (Beam angle: 10.0°)					
C90 - C270 (Beam angle: 52.6°)					

Calumma XS MC RGBW 6500K
15x45dg



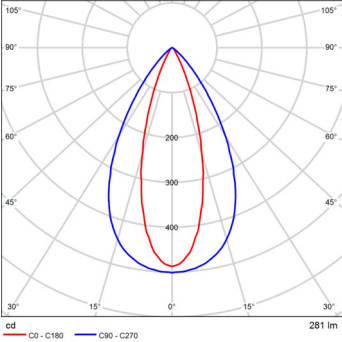
Distance [m]	Cone diameter [m]	Illuminance [lx]	E(0°)	E(C90)	E(C180)
0.50	0.45 0.14	4829	22.0°	2021	2354
1.0	0.91 0.27	1207	22.0°	508	589
1.5	1.2 0.41	537	22.0°	226	262
2.0	1.6 0.54	302	22.0°	127	147
2.5	2.0 0.68	193	22.0°	81	94
3.0	2.4 0.81	134	22.0°	56	65
Distance [m] Cone diameter [m] Illuminance [lx]					
C0 - C180 (Beam angle: 15.4°)					
C90 - C270 (Beam angle: 44.0°)					

Calumma XS MC RGBW 6500K
15x90dg



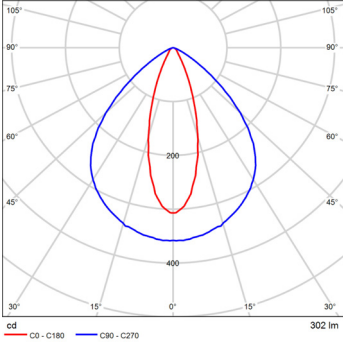
Distance [m]	Cone diameter [m]	Illuminance [lx]	E(0°)	E(C90)	E(C180)
0.50	0.85 0.13	2742	41.3°	380	1201
1.0	1.6 0.27	686	41.3°	96	338
1.5	2.6 0.40	305	41.3°	46	150
2.0	3.5 0.53	171	41.3°	37	84
2.5	4.4 0.67	110	41.3°	24	54
3.0	5.3 0.80	76	41.3°	16	38
Distance [m] Cone diameter [m] Illuminance [lx]					
C0 - C180 (Beam angle: 15.2°)					
C90 - C270 (Beam angle: 82.6°)					

Calumma XS MC RGBW 6500K
30x60dg



Distance [m]	Cone diameter [m]	Illuminance [lx]	E(0°)	E(C90)	E(C180)
0.50	0.58 0.28	1950	29.9°	655	871
1.0	1.2 0.56	488	29.9°	164	218
1.5	1.7 0.84	217	29.9°	73	97
2.0	2.3 1.1	122	29.9°	41	54
2.5	2.9 1.4	76	29.9°	26	35
3.0	3.5 1.7	54	29.9°	18	24
Distance [m] Cone diameter [m] Illuminance [lx]					
C0 - C180 (Beam angle: 31.4°)					
C90 - C270 (Beam angle: 59.6°)					

Calumma XS MC RGBW 6500K
30x90dg



Distance [m]	Cone diameter [m]	Illuminance [lx]	E(0°)	E(C90)	E(C180)
0.50	1.0 0.30	1227	45.3°	260	539
1.0	2.0 0.60	307	45.3°	63	135
1.5	3.0 0.91	136	45.3°	28	60
2.0	4.0 1.2	77	45.3°	16	34
2.5	5.1 1.5	49	45.3°	10	22
3.0	6.1 1.8	34	45.3°	6.9	15
Distance [m] Cone diameter [m] Illuminance [lx]					
C0 - C180 (Beam angle: 33.8°)					
C90 - C270 (Beam angle: 50.6°)					