

CALUMMA™ L MC

Featuring an optical design using twelve high efficacy multichip LEDs and available with optional LED colour variants and various beam angles, the large-sized Calumma L 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. Additionally, Calumma L MC can be connected in long In/Out daisy-chains via an E-Box and hybrid Plug & Play connections for almost effortless installation. Complemented by wide range of accessories and control protocols, 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 twelve high-power, multi-chip LEDs provides up to 3970 lumen output. Multiple LED colour variants. No light spills. Perfectly homogenised light output with efficacy up to 36 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 series of power and data interfaces, Calumma L MC can communicate via numerous wired, wireless, and Ethernet based control protocols. Various wiring topologies are supported using hybrid power / data cables with Plug & Play connectors or standard connection options.

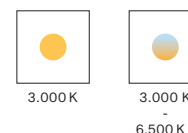
COLOURS

* UPON REQUEST



COLOUR TEMPERATURE

* UPON REQUEST

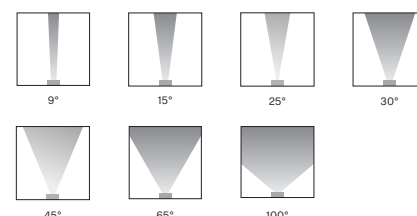


CONTROL & PROTOCOLS

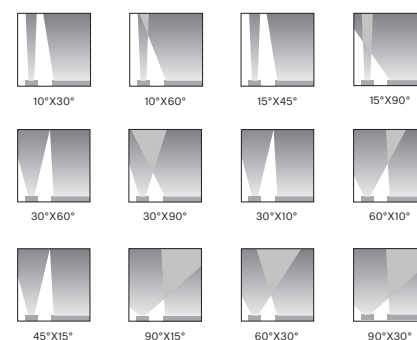


OPTIC OPTIONS

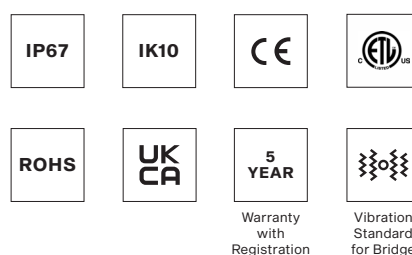
SYMMETRICAL



BI-SYMMETRICAL



STANDARD & SPECIFICATION



FINISH OPTIONS

* CLOSEST RAL TONE
* HE = Harsh Environment



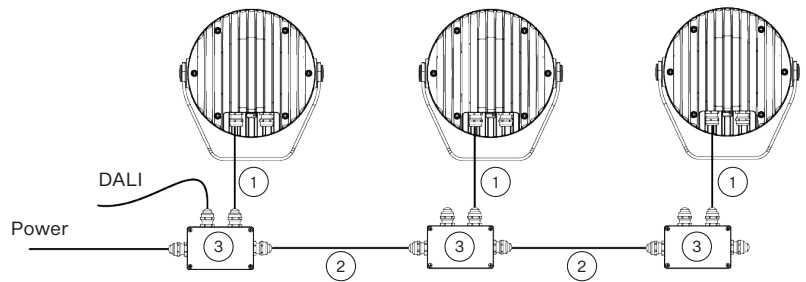
SPECIFICATION

ELECTRICAL	Input Voltage	120–277 V AC 50/60 Hz (US)		
	Typical Power Consumption	110 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	3970 lm (@9° RGBW)		
	Projected Lumen Maintenance	L90B10 >90.000 hrs, Ta = 25°C / 77°F		
CONTROL	Interface Protocol	Via E-box range, DMX/RDM, wireless DMX, DALI 2		
	E-box control protocol	USITT DMX512+RDM, ArtNet, MA Net, MA Net2, sACN, Kling-Net		
	DALI 2 Device Type	DT 8		
	Wireless DMX (Option)	Lumen Radio CRMX Technology		
	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 Weight	338 x 360 x 116 mm (13.31 x 14.13 x 4.57 in.) 9.43 kg (20.79 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/OUT (for E- Box version): - 0,5 m cables with hybrid connectors - Jumper cables		IN (for DMX, DALI): - 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)			
	Optical Demo Set for Calumma L (for demo purposes)			
	Outdoor Foil Holder for Calumma L „OFH“ version only (for permanent installation)			
	Optical Foil Set for Outdoor Foil Holder Calumma L			
	Land Spike for Calumma L			
	Top Hat Calumma L			
	Half Top Hat Calumma L			
	Re-enterable Electrical Insulating Resin			
	Floor stand for Calumma L, XL			
	Tenon Adaptor			
	Pole Adaptor (ø 102mm) (Yoke for Pole Adaptor Required)			

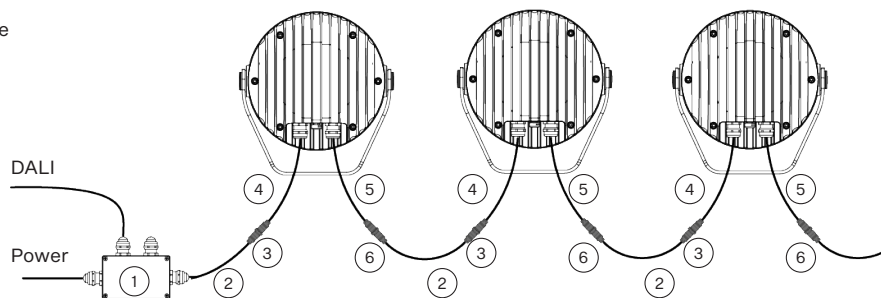
CONTROL AND CONNECTION OPTIONS - CE

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



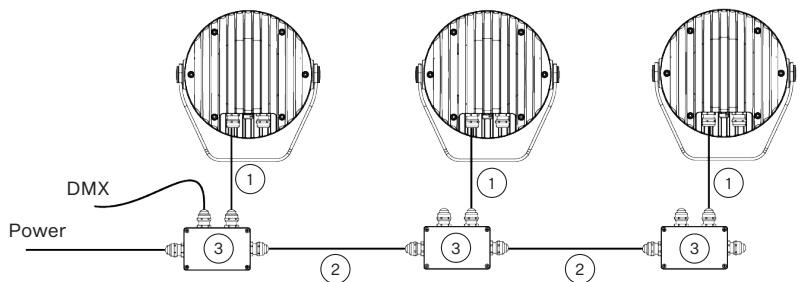
- 1) Junction Box
- 2) Hybrid Cable (13053693) Standard 1 m with bare-end, black or on request Hybrid cable (13053697), 1 m with bare-end, white
- 3) Field Installable Connector FF DC-05 (13053971)
- 4) Hybrid Cable (13053693), black, standard 0,5 m with Field Installable Connector MM DC-05 (13053972), black or on request Hybrid cable (13053697), white, 0,5 m with Field Installable Connector MM DC-05 (13053972), black
- 5) Hybrid Cable (13053693), black, standard 0,5 m with Field Installable Connector FF DC-05 (13053971), black or on request Hybrid cable (13053697), white, 0,5 m with Field Installable Connector FF DC-05 (13053971), black
- 6) Field Installable Connector MM DC-05 (13053972)



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

DMX

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



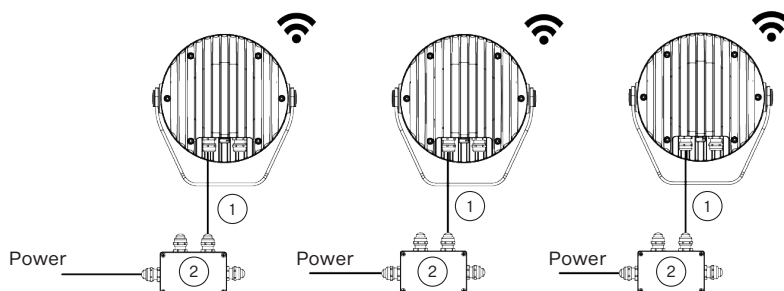
CONTROL AND CONNECTION OPTIONS - CE

WIRELESS DMX

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

- 2) Junction Box

Note: This type of connection is available for M, L, XL versions.

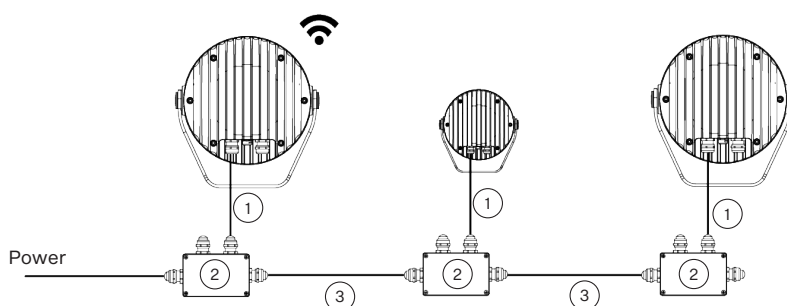


- 1) Flamar 3x16 AWG + 1x(2x24 AWG) - (13051508), Standard 1 m bare-end, black or Hybrid Cable HYB-5731ZH LSZH (13053694), white

- 2) Junction Box

- 3) Flamar 3x16 AWG + 1x(2x24 AWG) - (13051508) or HYB-5731ZH LSZH (13053694), Hybrid Cable, white or Scope of Others

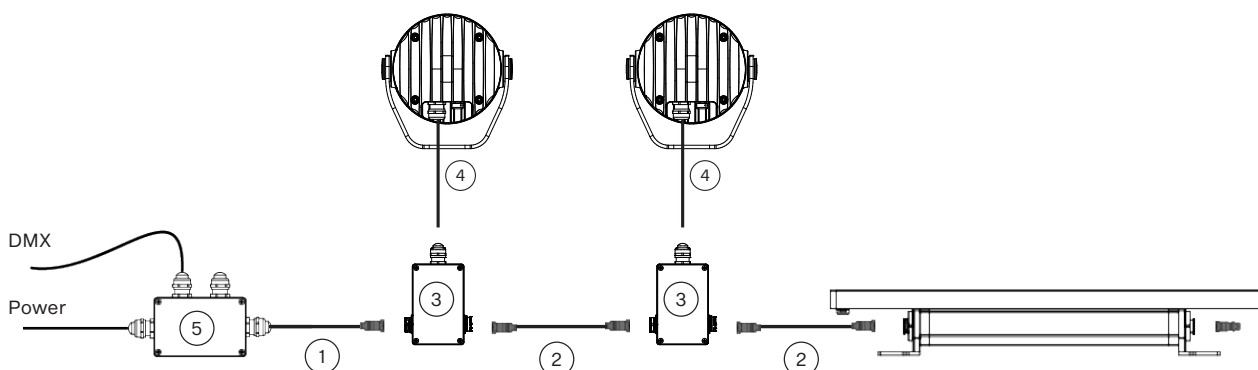
Note: This type of connection must have M, L or XL versions as the first luminaire in a row could be chosen from S, M, L or XL versions.



DMX WITH JUNCTION BOX FOR CALUMMA L / 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) - (13051508) Standard 1 m with bare-end, black or HYB-5731ZH LSZH (13053694), Hybrid Cable, white
- 5) Junction Box

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

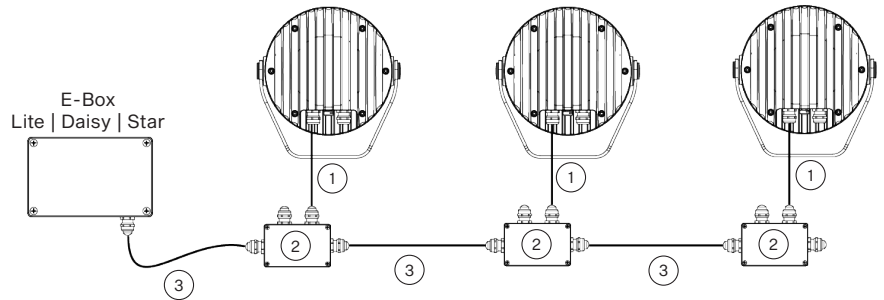


CONTROL AND CONNECTION OPTIONS - CE

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

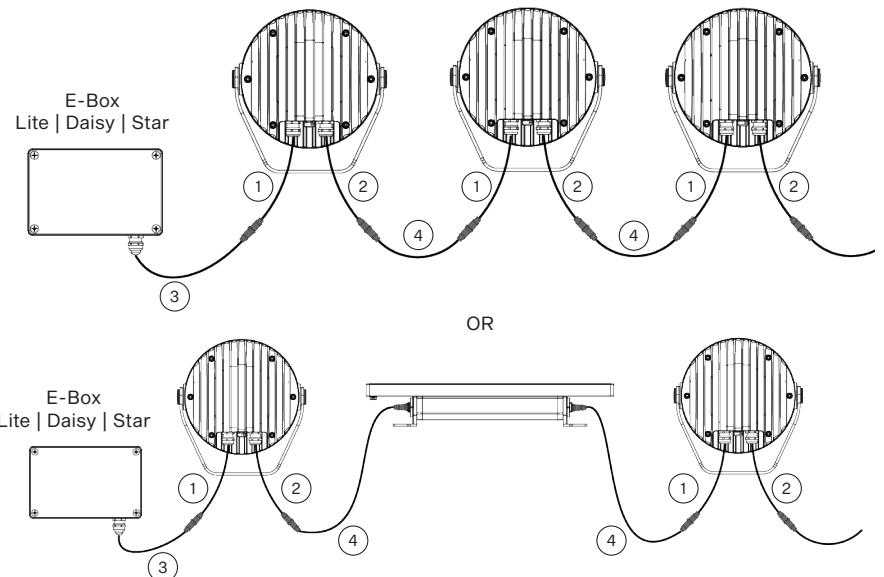
Note: This type of connection is available for S, M, L, and XL versions. E-Box has to be in Pass Through mode only.



- 1) Leader Cable MM (13053493)
Standard 0,5 m with hybrid connector
- 2) Leader Cable MF (13053494)
Standard 0,5 m with hybrid connector
- 3) Leader Cable FF 2 m (13053438)
Leader Cable FF 5 m (13053440)
Leader Cable FF 10 m (13053436)
Leader Cable FF 25 m (13053437)
Leader Cable FF 50 m (13053439)

- 4) Jumper Cable FF/FM 0,25 m (13053422)
Jumper Cable FF/FM 0,5 m (13053423)
Jumper Cable FF/FM 1 m (13053425)
Jumper Cable FF/FM 2 m (13053427)
Jumper Cable FF/FM 3 m (13053428)
Jumper Cable FF/FM 5 m (13053430)
Jumper Cable FF/FM 10 m (13053424)

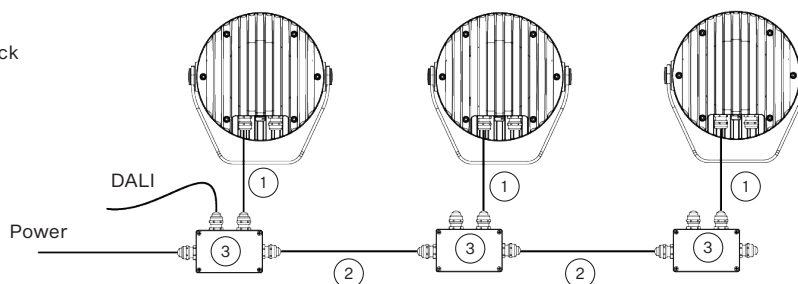
Note: With this type of connection is possible to connect Calumma (M, L, XL) and Eminere (Eminere, Eminere Side) luminaires in a row.



CONTROL AND CONNECTION OPTIONS - US

DALI

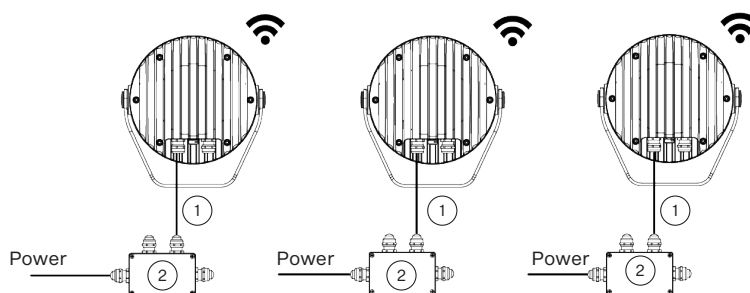
- 1) SJTW 5x14 AWG (13053693), Standard 1 m with bare-end, black or Cable SJTW 5x14 AWG (13053697), white
- 2) SJTW 5x14 AWG (13053693), black or Cable SJTW 5x14 AWG (13053697), white or Scope of Others
- 3) Junction Box



WIRELESS DMX

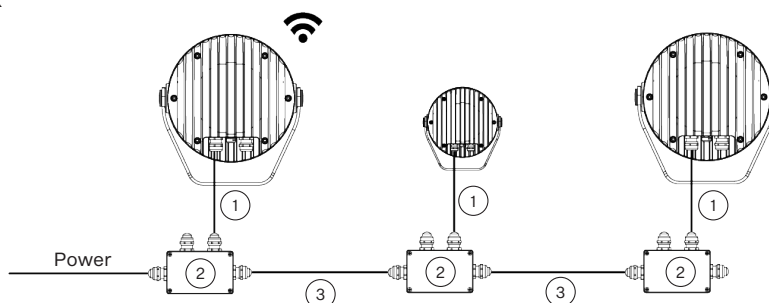
- 1) SJTW 6x14 AWG (13053480), Standard 1 m with bare-end, black or Cable SJTW 6x14 AWG (13053695), white
- 2) Junction Box

Note: This type of connection is available for M, L, XL versions



- 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

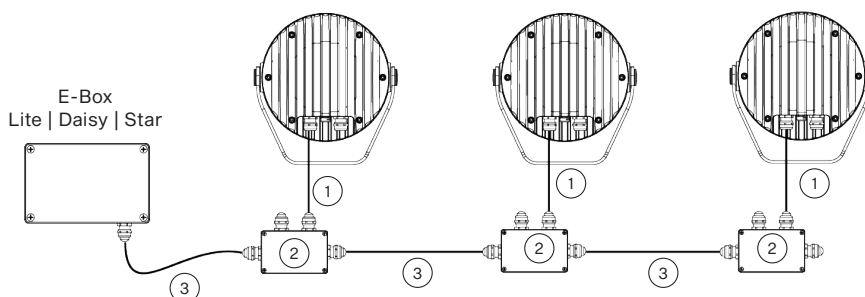
Note: This type of connection must have M, L or XL versions as the first luminaire. Next luminaires in a row could be chosen from S, M, L or XL versions.



CONTROL AND CONNECTION OPTIONS - US

DMX or ETHERNET via E-BOX

- 1) SJTW 6x 14AWG (13053480)
Standard 1 m with bare-end, black
or Cable SJTW 6x 14AWG (13053695), white
- 2) Junction Box
- 3) SJTW 6x 14AWG (13053480), black
or Cable SJTW 6x 14AWG (13053695), white
or Scope of Others

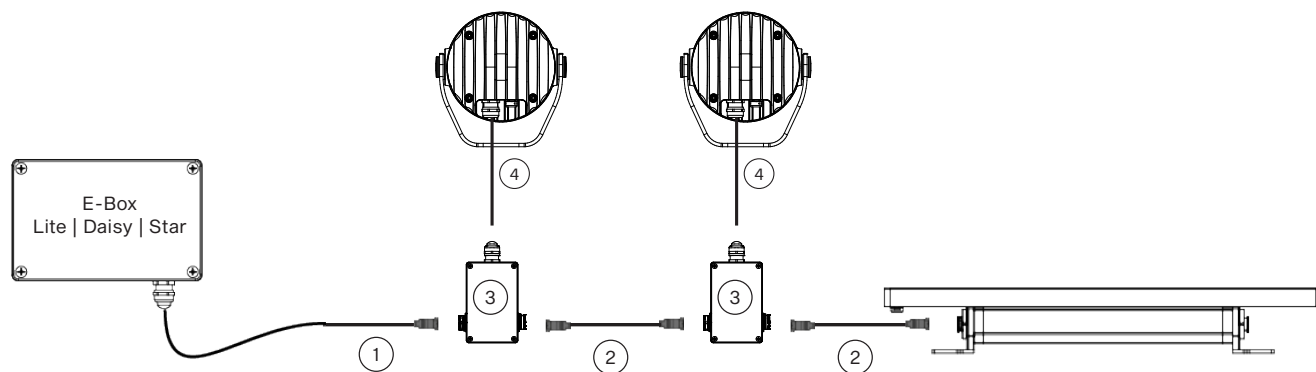


Note: This type of connection is available for S, M, L and XL versions. E-Box has to be in Pass Through mode only.

DMX WITH JUNCTION BOX FOR CALUMMA L / 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 6x 14AWG (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 L MC in a row with respect of cable length.

STANDARD MODE		Cable length (m)	Voltage (V)			
			120	190	230	277
CALUMMA L MC	10	17	26	32	38	
	20	17	26	32	38	
	30	12	26	32	38	
	50	7	18	26	37	
	70	5	13	18	27	
	100	3	9	13	19	
	200	3	4	6	9	
	500	1	2	3	4	

PASS-THROUGH MODE		Cable length (m)	Voltage (V)			
			120	190	230	277
CALUMMA L MC	10	17	26	32	32	
	20	17	26	32	32	
	30	12	26	32	32	
	50	7	18	26	32	
	70	5	13	18	27	
	100	3	9	13	19	

BOOSTER BOX POSITIONS

		Cable length (m)	Max. number of Calummas L MC= 191 (in Standard mode)			
			120 V	190 V	230 V	277 V
CALUMMA L MC	10 m	17		26	-	-
	20 m	17, 34, 51		26, 32	32	38
	30 m	12, 24, 36, 48, 60, 71, 84		26, 52, 78	32, 64	38, 76
	50 m	7, 14, 21, 28, 35, 42, 49, 56, 63...		18, 32, 54, 72, 90...	26, 52, 78, 104...	37, 74, 111....
	70 m	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80...		13, 26, 39, 52, 65, 78, 91, 104, 117...	18, 36, 54, 72, 90 108...	27, 54, 81, 108, 135...
	100 m	3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60, 63, 66, 69, 72, 75, 78, 81...		9, 18, 27, 36, 45, 54, 72, 81, 90, 99, 108, ...	13, 26, 39, 52, 65, 78, 91, 104...	19, 38, 57, 76, 95, 114...
	200 m	3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60, 63, 66, 69, 72, 75, 78, 81...		4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84....	6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72, 78, 84, 90, 96, 102....	9, 18, 27, 36, 45, 54, 63, 81, 90, 99, 108, 117....
	500 m	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11....		2, 4, 6, 8, 10, 12, 14, 16, 18....	3, 6, 9, 12, 15, 18, 21....	4, 8, 12, 16, 20, 24, 28....

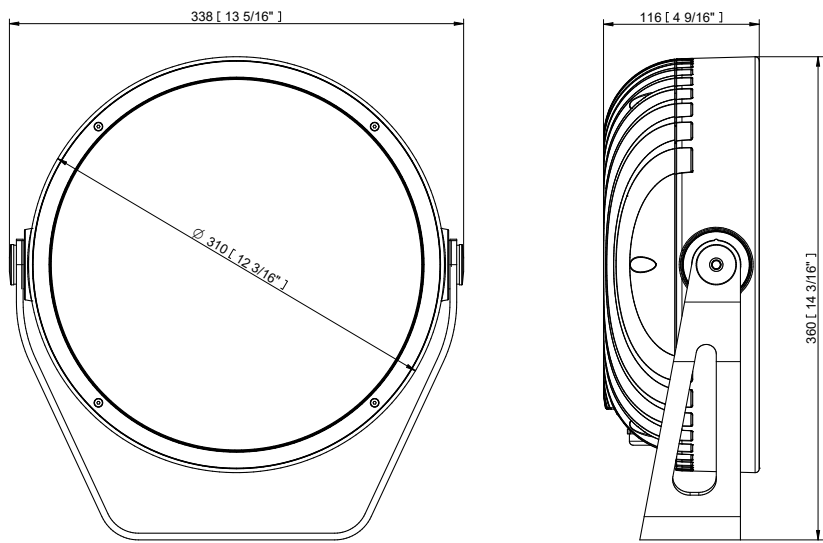
NOTE: For more detail see the User manual.

PROJECTED AREA

	Front (rear) - m²	Front (rear) ft²	Side - m²	Side - ft²	Top - m²	Top - ft²
Calumma L	0,080	0,861	0,037	0,398	0,035	0,373
with Top Hat	0,080	0,861	0,087	0,936	0,085	0,911
with Half Top Hat	0,080	0,861	0,059	0,635	0,082	0,882

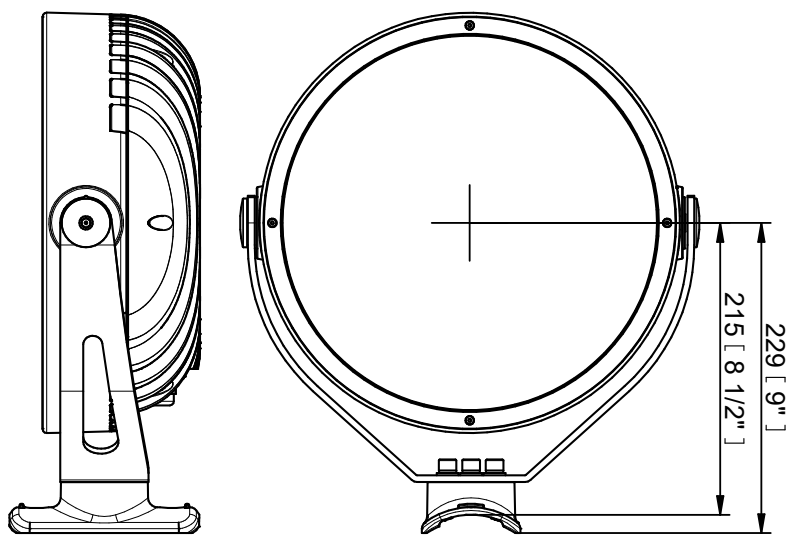
DIMENSIONS

Standard Yoke



Yoke for Pole Adaptor (with Pole Adaptor / PA)

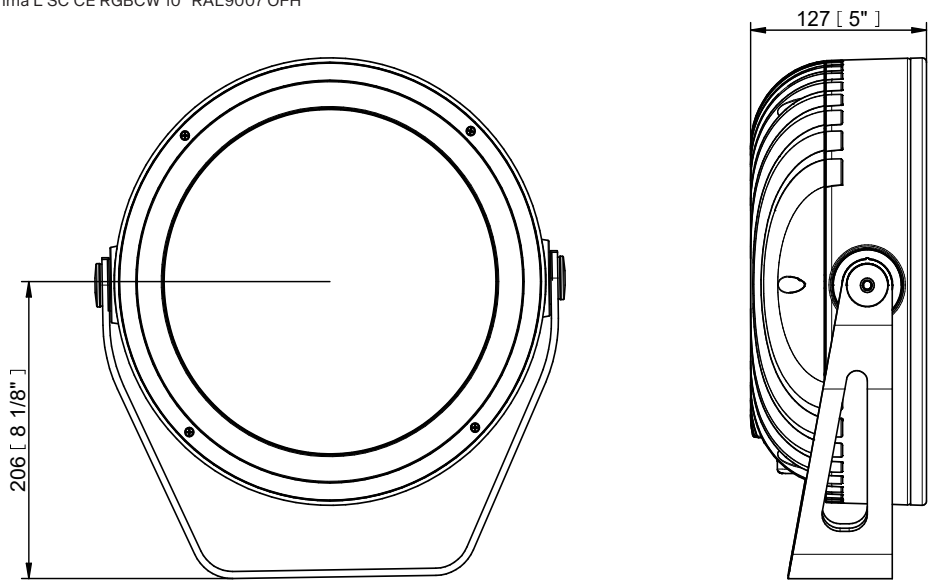
Example of ordering code: Calumma L SC RGBCW 15° PA



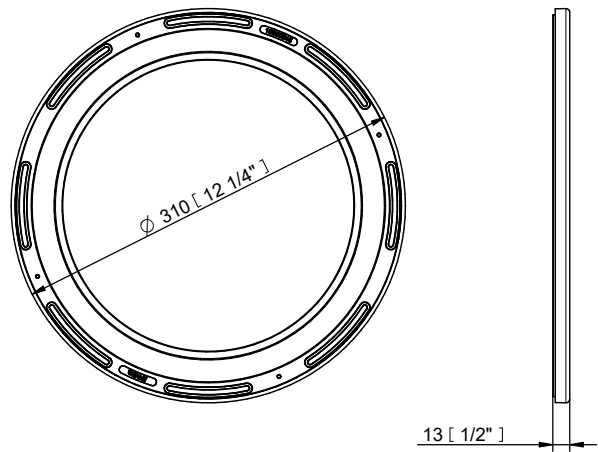
ACCESSORIES

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

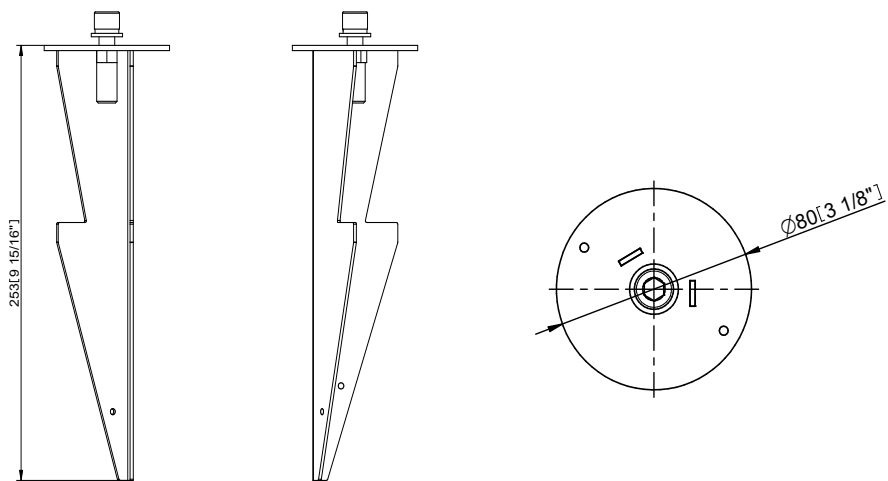
Example of ordering code: Calumma L SC CE RGCW 10° RAL9007 OFH



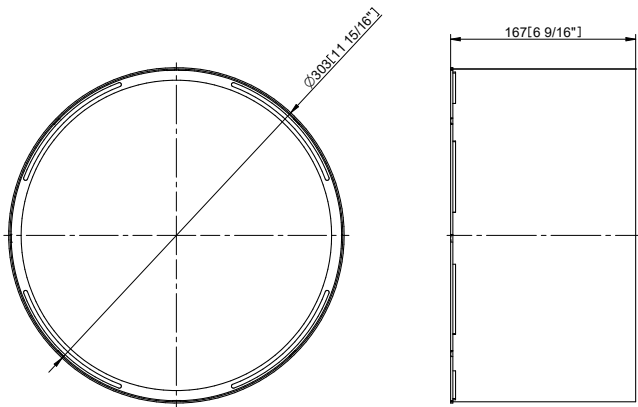
Outdoor Foil Holder for Calumma L



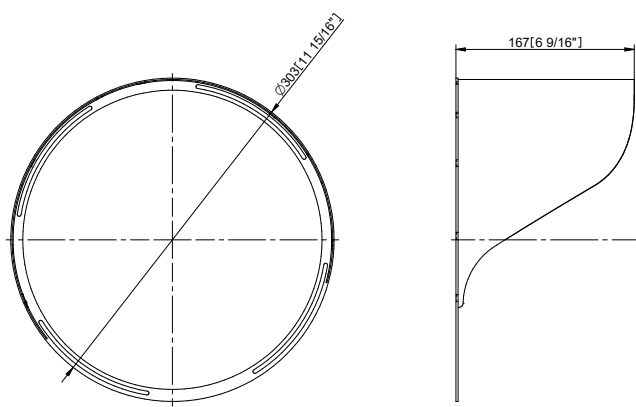
Land Spike for Calumma (S, M, L, XL)



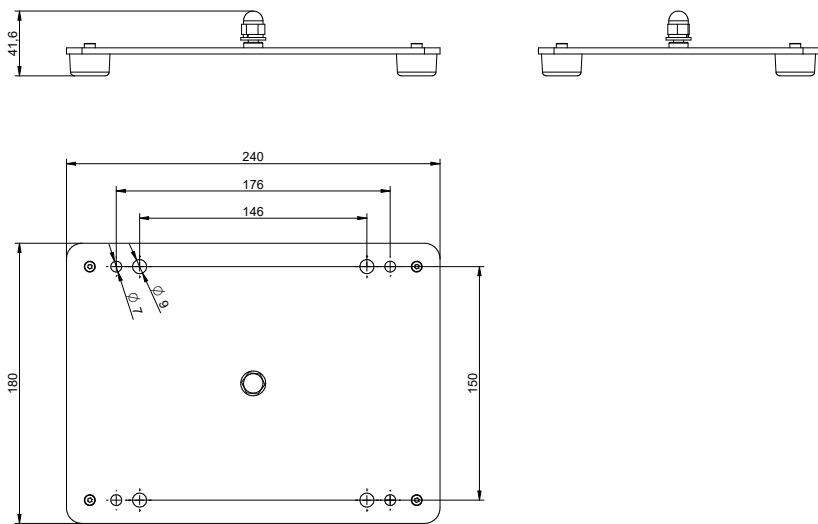
Top Hat



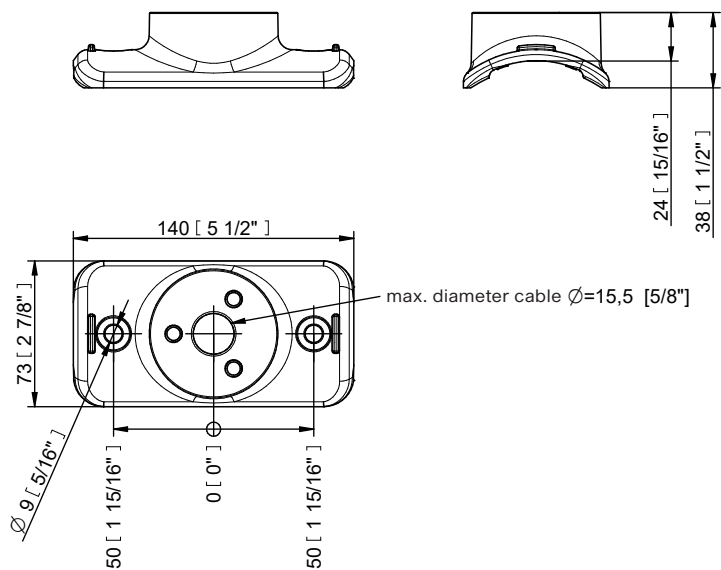
Half Top Hat



Floor Stand

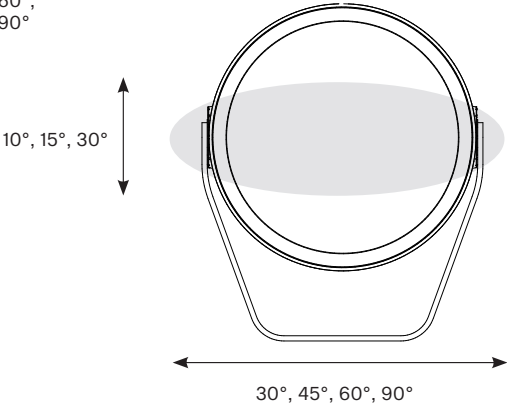


Pole Adaptor

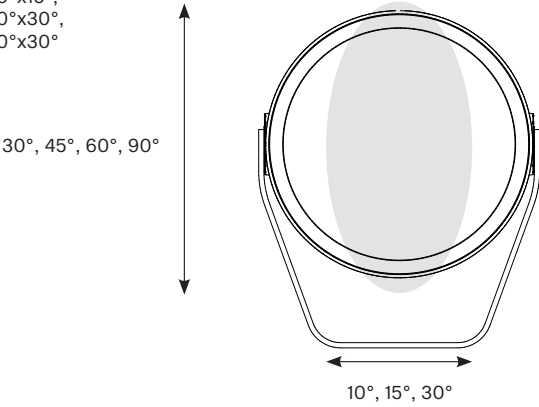


BI-SYMMETRICAL BEAM ANGLES

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°

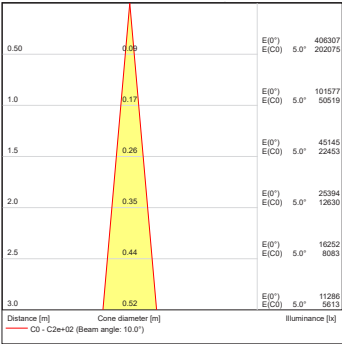
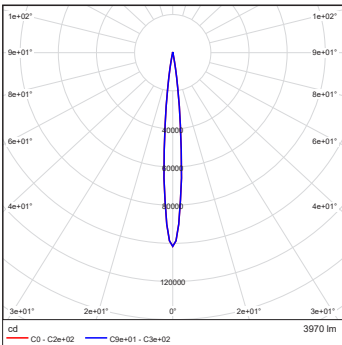


PHOTOMETRIC OVERVIEW

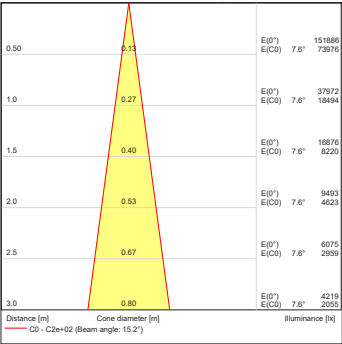
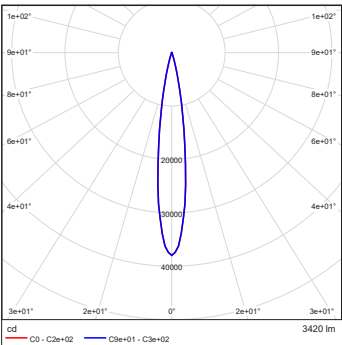
Lumen Output (lm)			
	RGBCW (W 6500 K)	RGBA	WW (W 3000 K)
10°	7900	5539	9779
15°	7198	5047	8910
25°	7035	4933	8708
30°	6905	4842	8548
45°	7051	4944	8728
65°	6912	4847	8556
100°	6998	4907	8663
10°x30°, 30°x10°	6951	4874	8604
10°x60°, 60°x10°	6917	4850	8562
15°x45°, 45°x15°	7216	5060	8933
30°x60°, 60°x30°	6876	4821	8512
30°x90°, 90°x30°	6481	4544	8023
15°x90°, 90°x15°	6805	4772	8424

PHOTOMETRIC DATA

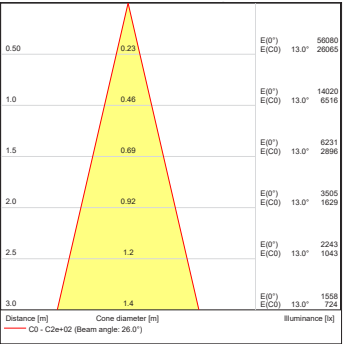
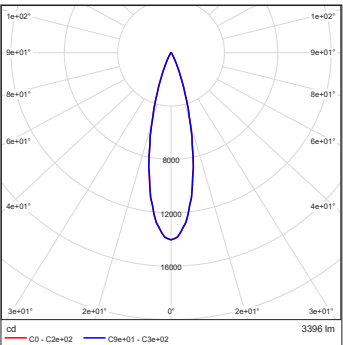
Calumma L MC RGBW 6500K 10dg



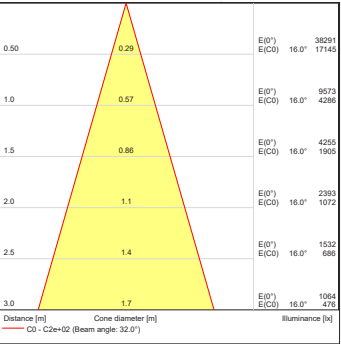
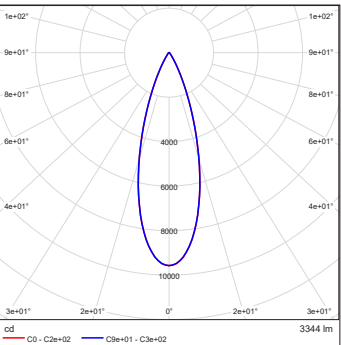
Calumma L MC RGBW 6500K 15dg



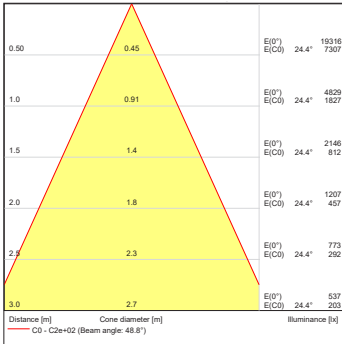
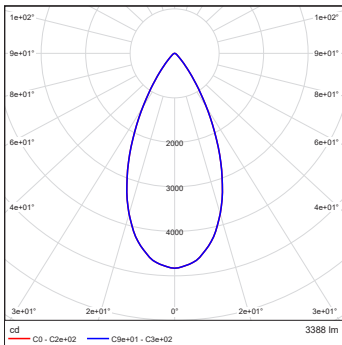
Calumma L MC RGBW 6500K 25dg



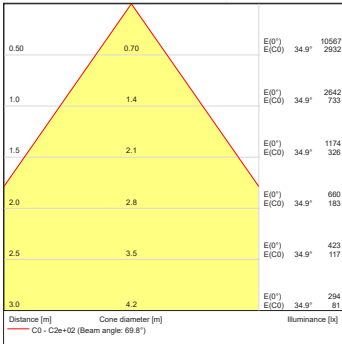
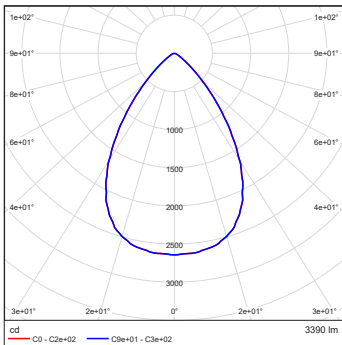
Calumma L MC RGBW 6500K 30dg



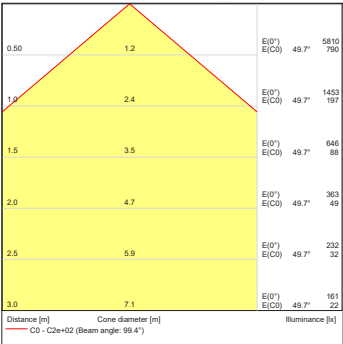
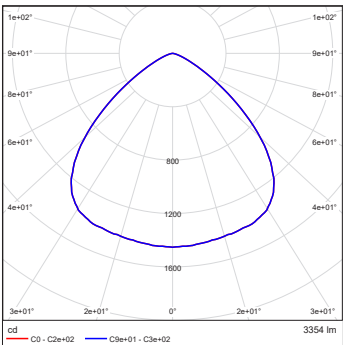
Calumma L MC RGBW 6500K 45dg



Calumma L MC RGBW 6500K 65dg

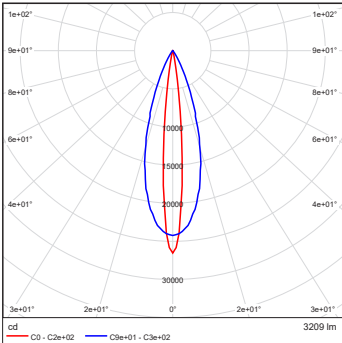


Calumma L MC RGBW 6500K 100dg

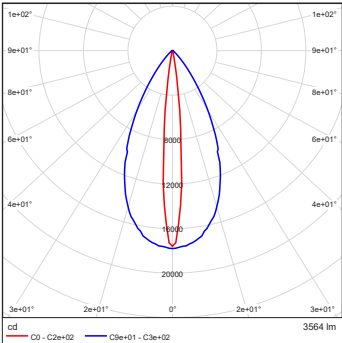


PHOTOMETRIC DATA

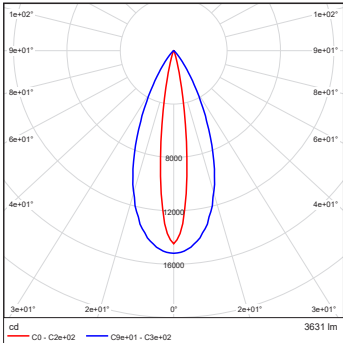
Calumma L MC RGBW 6500K
10x30dg



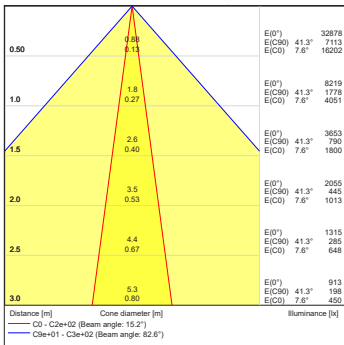
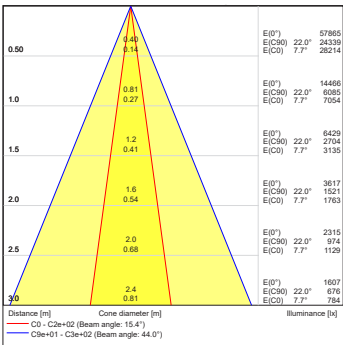
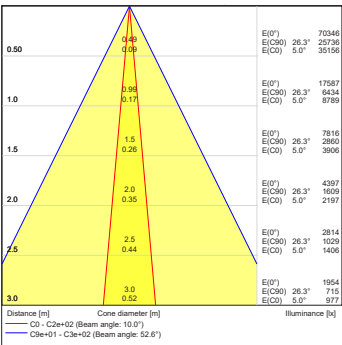
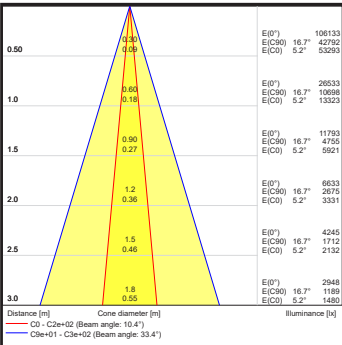
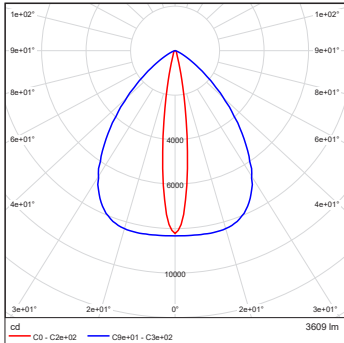
Calumma L MC RGBW 6500K
10x60dg



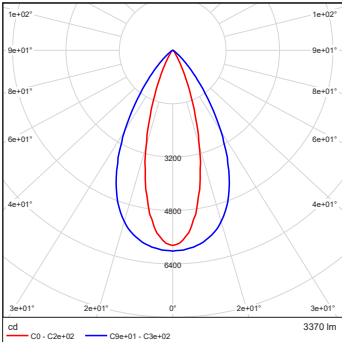
Calumma L MC RGBW 6500K
15x45dg



Calumma L MC RGBW 6500K
15x90dg



Calumma L MC RGBW 6500K
30x30dg



Calumma L MC RGBW 6500K
30x60dg

