

CALUMMA™ CATENARY M SC

Featuring an optical design using 37 high efficacy single-chip LEDs and available with optional LED colour variants and various beam angles, the medium-sized Calumma Catenary M SC luminaire creates powerful and beautiful light output for a spot 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.



KEY FEATURES

Lumen output & Light source
Luminaire with 37 high-power, singlechip LEDs provides up to 3478 lumen output. Multiple LED colour variants. No light spills. Well homogenised light output with great efficacy up to 57 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 custom colour finishes, multiple light output variants and beam angles.

Connectivity
Utilising the innovative E-Box series of power and data interfaces, Calumma Catenary M SC can communicate via numerous control protocols.

COLOURS

* UPON REQUEST


RGBW


RGBA


Pure White


Tuneable White *

CONTROL & PROTOCOLS


OPTIONAL


OPTIONAL


OPTIONAL

OPTIC OPTIONS

SYMMETRICAL


10°


15°


25°


30°


45°


65°


100°

BI-SYMMETRICAL


10°X30°


10°X60°


15°X45°


15°X90°


30°X60°


30°X90°


30°X10°


60°X10°


45°X15°


90°X15°


60°X30°


90°X30°

COLOUR TEMPERATURE

* UPON REQUEST


2.200 K *


2.500 K *


2.700 K *


3.000 K


3.500 K *


4.000 K *


5.000 K *


6.500 K *


2.700 K
-
6.500 K *

STANDARD & SPECIFICATION


IP67


IK10


CE


ETL


ROHS


UK CA


5 YEAR
Warranty with
Registration


Vibration
Standard for
Bridge

FINISH OPTIONS

* CLOSEST RAL TONE
* HE = Harsh Environment


Graphite Black
RAL 9011*


Grey Aluminium
RAL 9007


Sandstone
RAL 1014*


Pure White
RAL 9010


HE
Graphite Black
RAL 9011*


HE
Grey Aluminium
RAL 9007


HE
Sandstone
RAL 1014*


HE
Pure White
RAL 9010


RAL
Custom
Paint Colour

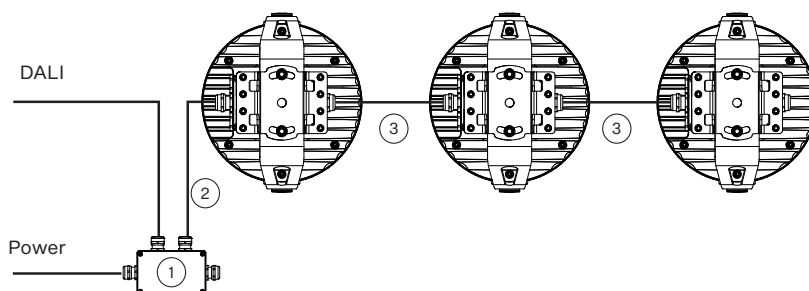
SPECIFICATION

ELECTRICAL	Input Voltage	120–277 V AC 50/60 Hz (US)		
	Typical Power Consumption	60 W +/-10 %		
OPTICAL	Light Source	37x High Power Single Chip LEDs		
	Colour Variants	RGBW (W - 6500 K) RGBA PW (W - 3000 K)		
		Other Variants On Request (TW (2700–6500 K), 2200 K, 2500 K, 2700 K, 3500 K, 4000 K, 5000 K, 6500 K)		
	Beam Angle	10° 15° 25° 30° 45° 65° 100°		
		10°x30° 30°x10° 10°x60° 60°x10° 15°x45° 45°x 15° 15°x90° 90°x15° 30°x60° 60°x30° 30°x90° 90°x30°		
	Lumen Output Delivered	3478 lm (@10° RGBW)		
	Projected Lumen Maintenance	L90B10 >90.000 hrs, Ta = 25°C / 77°F		
CONTROL	Interface Protocol	Via E-box range, DMX/RDM, DALI 2		
	E-box control protocol	USITT DMX512+RDM, ArtNet, MA Net, MA Net2, sACN, Kling-Net		
	DALI 2 Device Type	DT 8		
	Control System	Third Party DMX Controllers or third party DALI 2 controllers, Ethernet		
	Operating Modes	DMX, Stand-alone		
	Settings / Addressing	E-Box, RDM communicator		
	Power Supply	Integrated		
PHYSICAL	Width x Height x Depth Weight	264 x 238 x 236 mm (10.4 x 9.37 x 9.3 in.) 7.4 kg (16.31 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	Integrated Junction Box		
	Mounting Method	Catenary Mounting / Mounting Brackets		
	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 CE or US		
		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		
		Cable Hybrid 3x16 AWG + 1x(2x24 AWG), CE, black - for DMX or E-Box versions		
		Cable HYB-5731ZH LSZH (CE), white - for DMX or E-Box versions		
		Cable SJTW 6x14 AWG (US), black - for E-Box versions		
		Cable SJTW 6x14 AWG (US), white - for E-Box versions		
		Re-enterable Electrical Insulating Resin		

CONTROL AND CONNECTION OPTIONS - CE

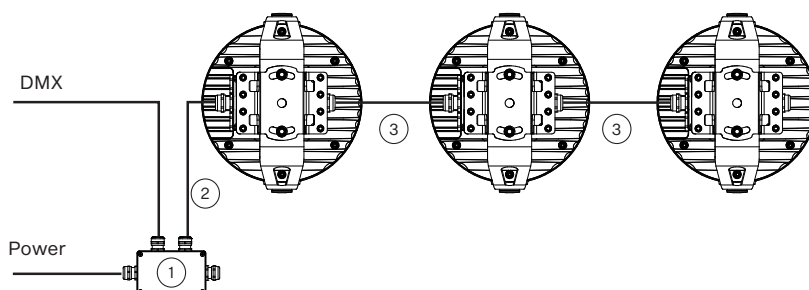
DALI

- 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) 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



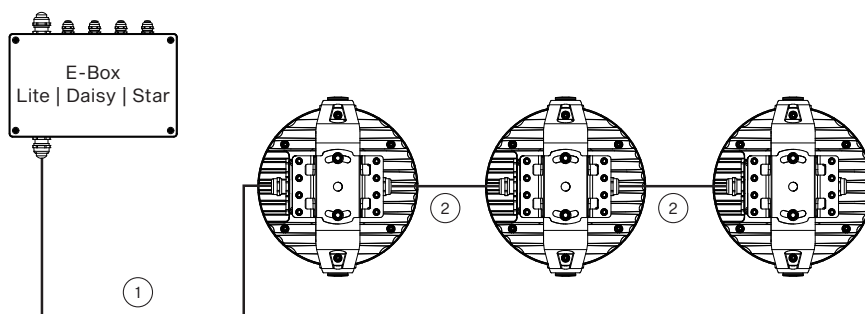
DMX

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



DMX or ETHERNET via E-BOX

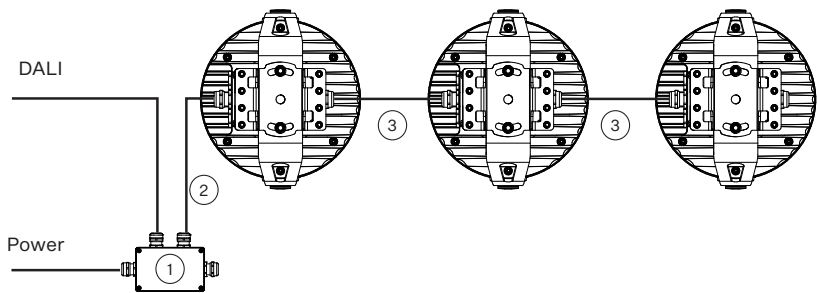
- 1) Flamar 3x16 AWG + 1x(2x24 AWG) Standard 1 m with bare-end, (13051508), black or Hybrid Cable HYB-5731ZH LSZH (13053694), white
- 2) Flamar 3x16 AWG + 1x(2x24 AWG), (13051508), black or Hybrid Cable HYB-5731ZH LSZH (13053694), white or Scope of Others



CONTROL AND CONNECTION OPTIONS - US

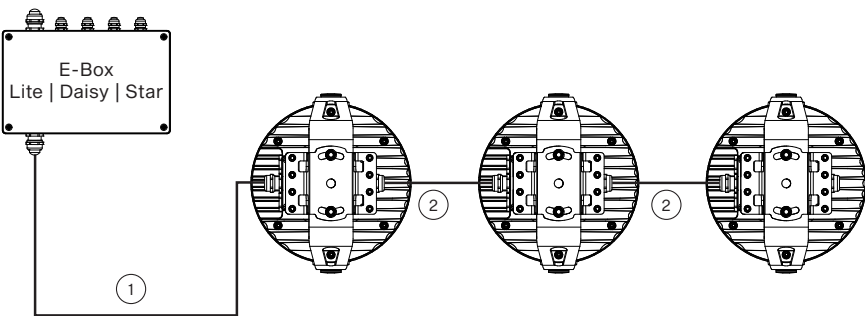
DALI

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



DMX or ETHERNET via E-BOX

- 1) SJTW 6x14 AWG (13053480), black or Cable SJTW 6x14 AWG (13053695), white or Scope of Others
- 2) SJTW 6x14 AWG (13053480), bare-end, black or Cable SJTW 6x14 AWG (13053695), white



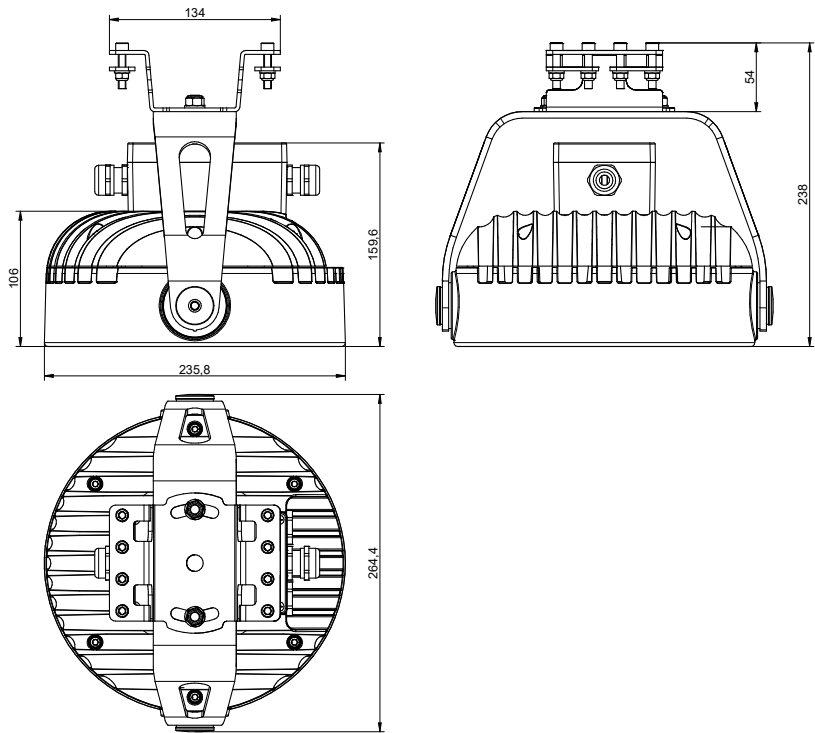
CONNECTIVITY

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

STANDARD MODE		Cable length (m)	Voltage (V)			
			120	190	230	277
CALUMMA M SC	10	30	48	58	70	
	20	30	48	58	70	
	30	21	48	58	70	
	50	13	32	47	68	
	70	9	23	34	49	
	100	6	16	24	34	
	200	3	8	12	17	
	500	1	3	5	7	

PASS-THROUGH MODE		Cable length (m)	Voltage (V)			
			120	190	230	277
CALUMMA M SC	10	30	32	32	32	
	20	30	32	32	32	
	30	21	32	32	32	
	50	13	32	32	32	
	70	9	23	32	32	
	100	6	16	24	32	
	500	1	3	5	7	

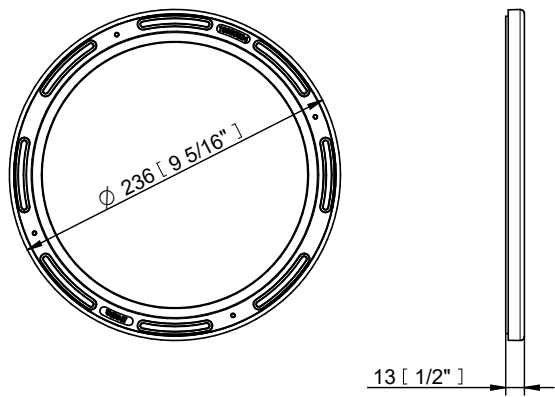
DIMENSIONS



ACCESSORIES

Outdoor Foil Holder for Calumma M

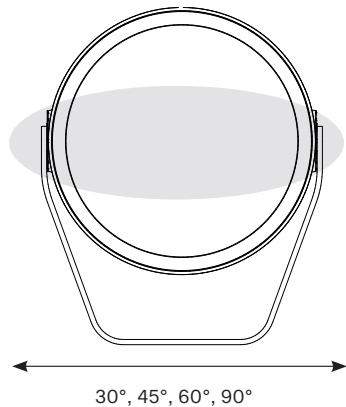
Outdoor Foil Holder for Calumma M „OFH“ version only (for permanent installation). **Example of ordering code:** Calumma M SC CE RGBCW 10° RAL9007 OFH



BI-SYMMETRICAL BEAM ANGLES

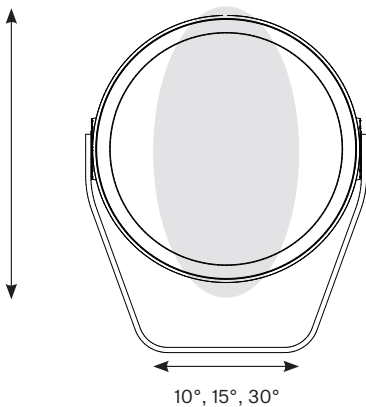
Bi-symmetrical:
10°x30°,
10°x60°,
15°x45°,
15°x90°,
30°x60°,
30°x90°

10°, 15°, 30°



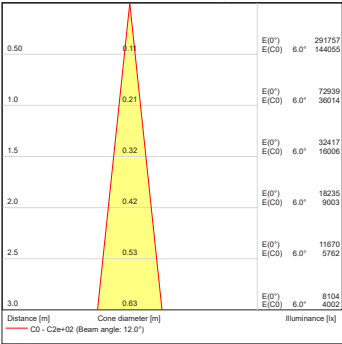
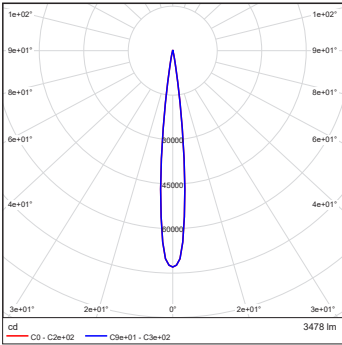
Bi-symmetrical:
30°x10°,
60°x10°,
45°x15°,
90°x15°,
60°x30°,
90°x30°

30°, 45°, 60°, 90°

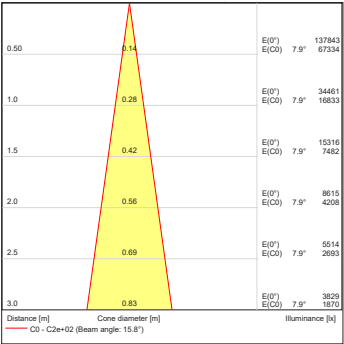
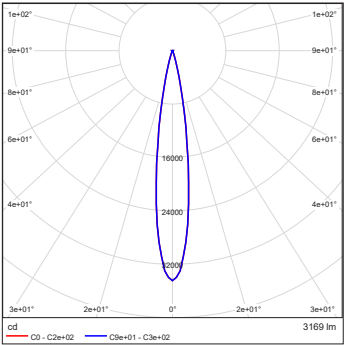


PHOTOMETRIC DATA

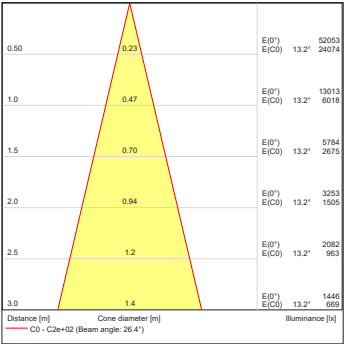
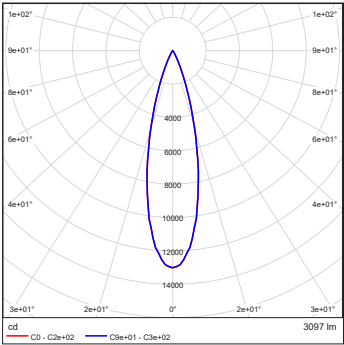
Calumma M SC RGBW 6500K 10dg



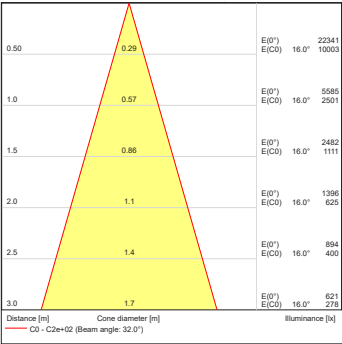
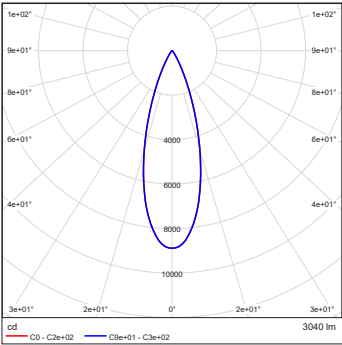
Calumma M SC RGBW 6500K 15dg



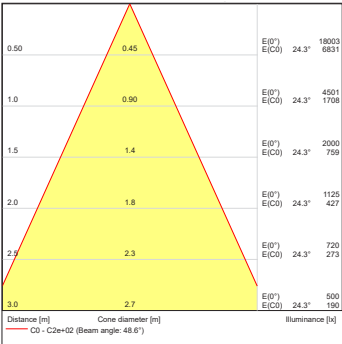
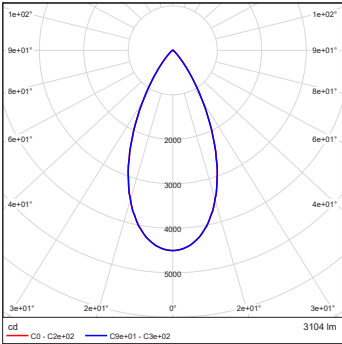
Calumma M SC RGBW 6500K 25dg



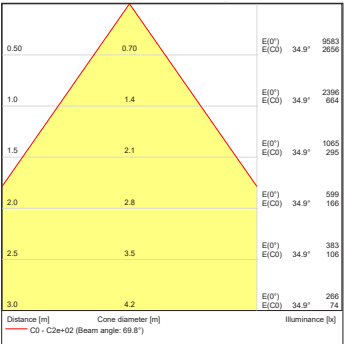
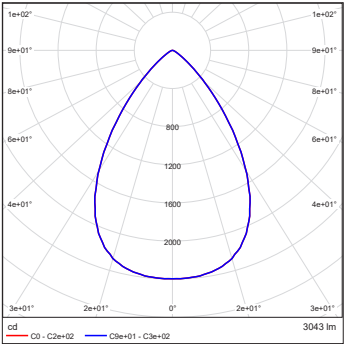
Calumma M SC RGBW 6500K 30dg



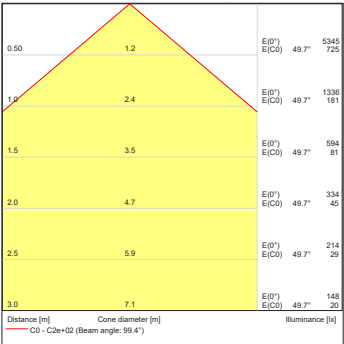
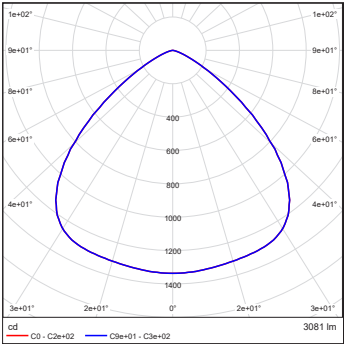
Calumma M SC RGBW 6500K 45dg



Calumma M SC RGBW 6500K 65dg



Calumma M SC RGBW 6500K 100dg



Calumma M SC RGBW 6500K
10x30dq

