

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

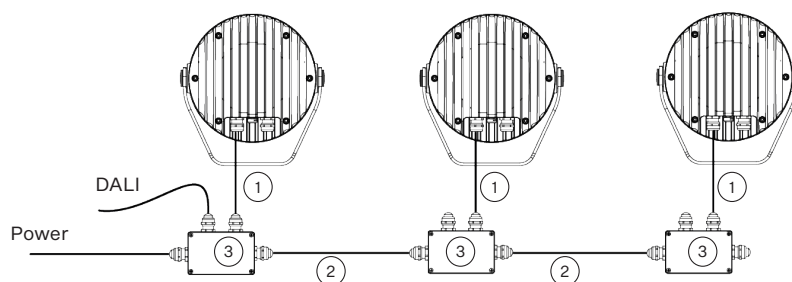
SPECIFICATION

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°	
	Lumen Output Delivered	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°	
		3478 lm (@10° RGBW)	
CONTROL	Projected Lumen Maintenance	L90B10 >90.000 hrs, Ta = 25°C / 77°F	
	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	IN (for DMX, DALI, ON/OFF): - 1 m cable with bare end - Other cable length - custom - Junction box - optional	
	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 3xAWG 16 + 1x (2xAWG 24) (CE, black) - for DMX or E-Box versions		
	Cable HYB-5731ZH LSZH (CE, white) - for DMX or E-Box versions		
	Cable SJTW 6x AWG 14 (US, black) - for E-Box versions		
	Cable SJTW 6x AWG 14 (US, white) - for E-Box versions		
Re-enterable Electrical Insulating Resin			

CONTROL AND CONNECTION OPTIONS - CE

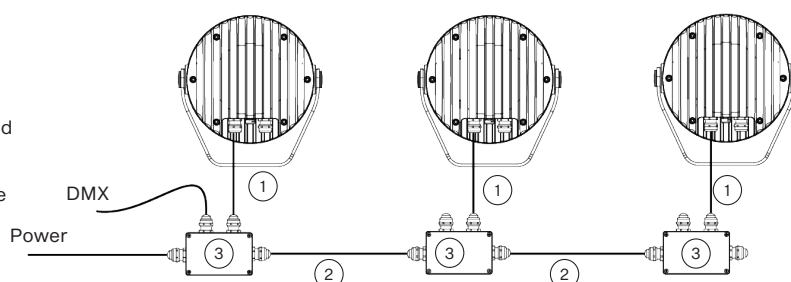
DALI

- 1) Hybrid Cable (1305 3693), Standard 1 m with bare-end
- 2) Hybrid Cable (1305 3693) or Scope of Others
- 3) Junction Box



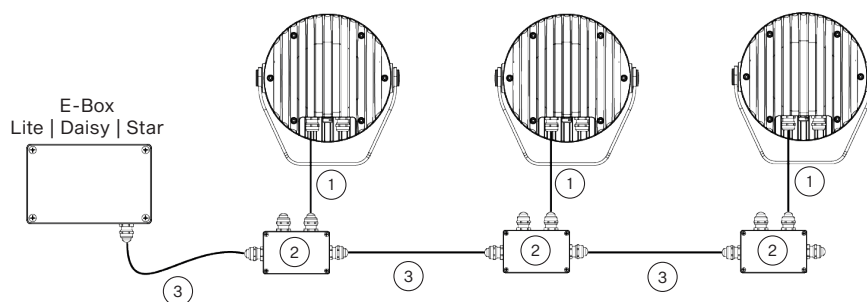
DMX

- 1) Flamar 3x AWG 16 + 1 x (2x AWG 24) black, Standard 1 m with bare-end (1305 1508), or Hybrid Cable HYB-5731ZH LSZH white (1305 3694)
- 2) Flamar 3x AWG 16 + 1 x (2x AWG 24) black (13051508), or Hybrid Cable HYB-5731ZH LSZH white (1305 3694), or Scope of Others
- 3) Junction Box



DMX or ETHERNET via E-BOX

- 1) Flamar 3x AWG 16 + 1x (2x AWG 24) (13051508), Standard 1 m with bare-end, black or Hybrid Cable HYB-5731ZH LSZH (13053694), white
- 2) Junction Box
- 3) Flamar 3x AWG 16 + 1 x (2x AWG 24), (13051508), black or Hybrid Cable HYB-5731ZH LSZH (13053694) white or Scope of Others

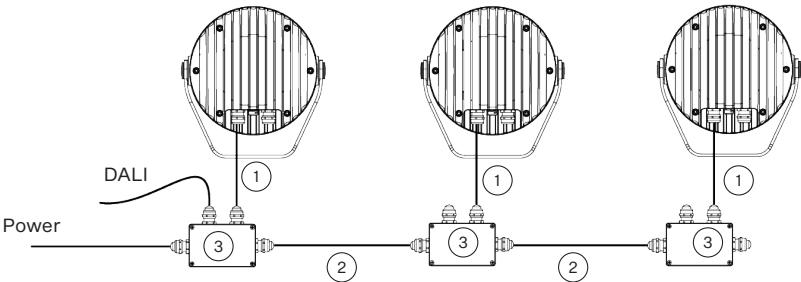


Note: This type of connection is available for S, M, L, and XL versions. E-Box has to be in Pass Through mode only.

CONTROL AND CONNECTION OPTIONS - US

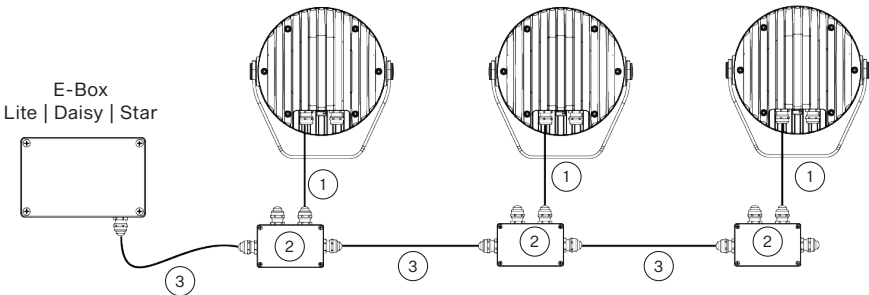
DALI

- 1) SJTW 5x 14AWG (13053336), Standard 1 m with bare-end, black or Cable SJTW 5x 14AWG (13053697), white
- 2) SJTW 5x 14AWG (13053336), black or Cable SJTW 5x 14AWG (13053697), white or Scope of Others
- 3) Junction Box



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.

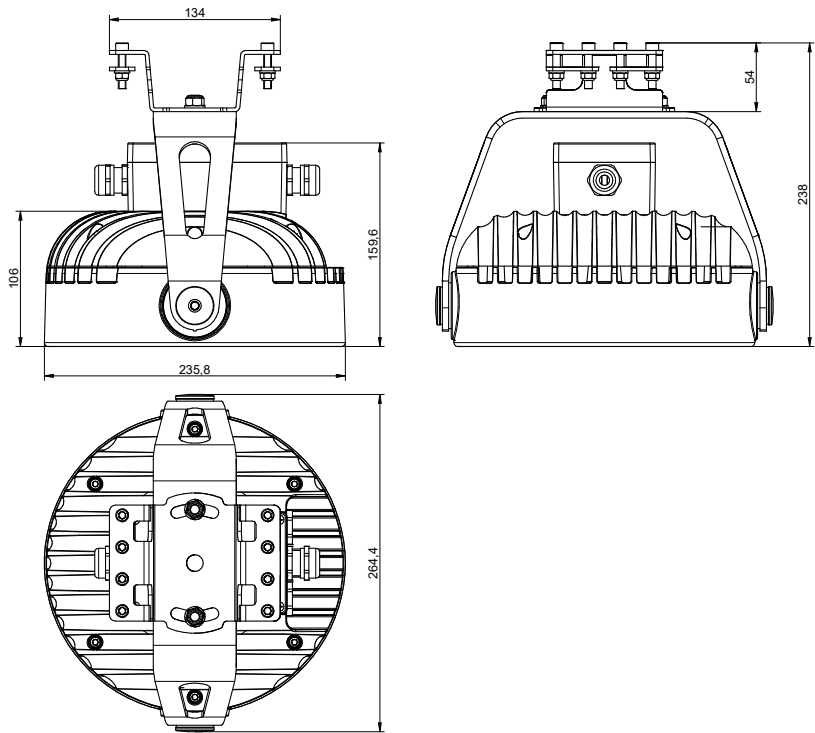
CONNECTIVITY

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	

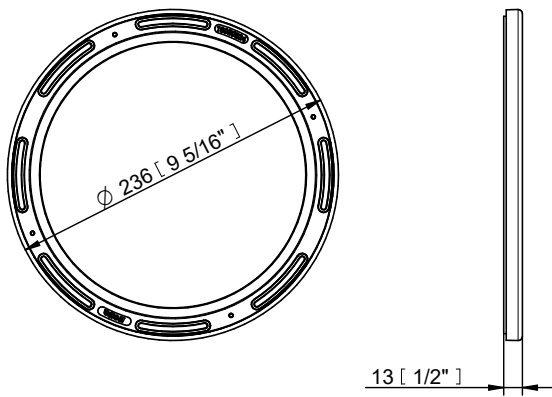
DIMENSIONS



ACCESSORIES

Outdoor Foil Holder for Calumma M

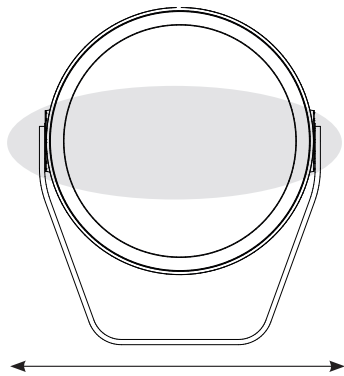
Outdoor Foil Holder for Calumma M „OFH“ version only (for permanent installation). **Example of ordering code:** Calumma M SC CE RGBCW 10° RAL9007 OFH



BI-SYMMETRICAL BEAM ANGLES

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

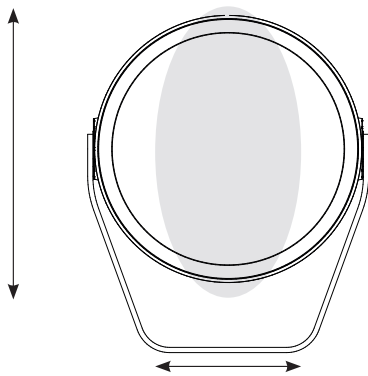
10°, 15°, 30°



30°, 45°, 60°, 90°

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

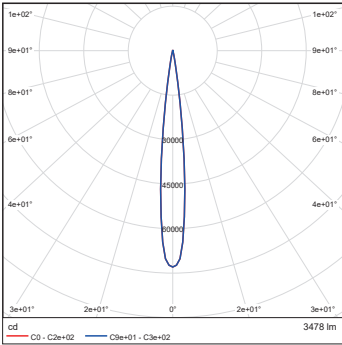
30°, 45°, 60°, 90°



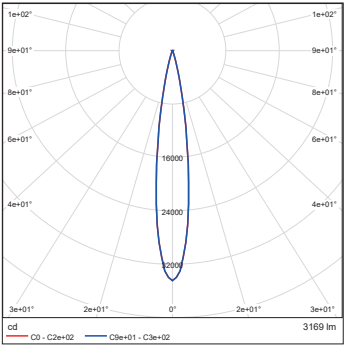
10°, 15°, 30°

PHOTOMETRIC DATA

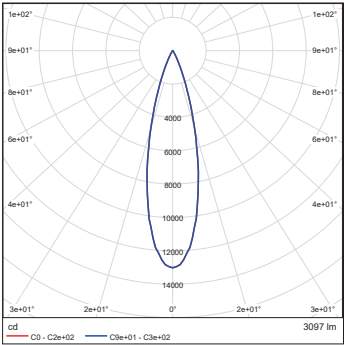
Calumma M SC RGBW 6500K 10dg



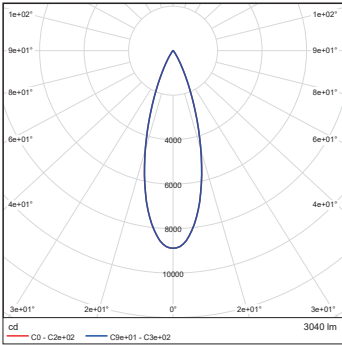
Calumma M SC RGBW 6500K 15dg



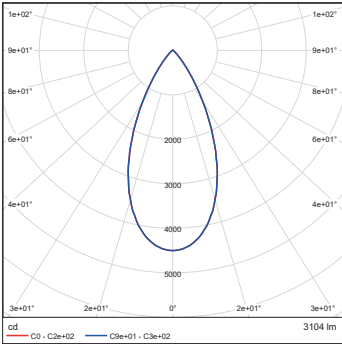
Calumma M SC RGBW 6500K 25dg



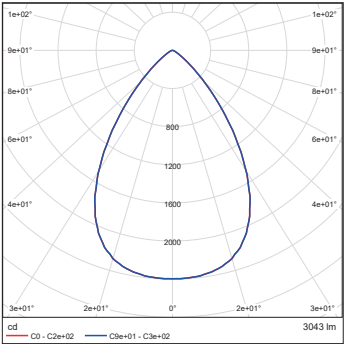
Calumma M SC RGBW 6500K 30dg



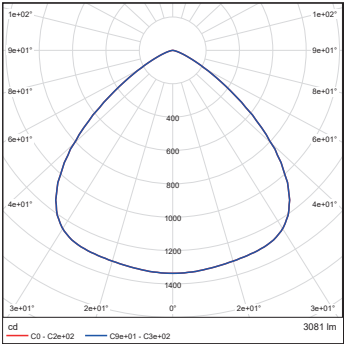
Calumma M SC RGBW 6500K 45dg



Calumma M SC RGBW 6500K 65dg



Calumma M SC RGBW 6500K 100dg



Calumma M SC RGBW 6500K
10x30dq

