

# EMINERE® SIDE 1 / 2 / 3 / 4

Eminere Side is specifically designed for applications where a low form factor is required whilst keeping installation of the luminaire neat and clean. With only 76 mm in height, it keeps all of the Eminere series strengths. Wide range of optics options, durability, connectivity, application flexibility make this luminaire ideal solution for flood lighting, wall grazing, wall washing and accent lighting.



## KEY FEATURES

### Quick and Easy Installation

Easy and quick installation using click-on connectors overmolded on combo cable (Power + Data).

### Durability

High durability of IK06 in combination of ingress factor IP67.

### Application Flexibility

Complete solution for illuminating buildings, monuments, walls, statues, bridges, covers, arches and much more. With PSU on its side, Eminere Side is only 76 mm in height.

### Optics & Colours

Wide range of optics allows to place product anywhere needed with no limitation. Full spectral LEDs selection with custom option on request. Output up to 1.147 lm (RGBW) or 1.652 lm (PW) per one foot of Eminere.

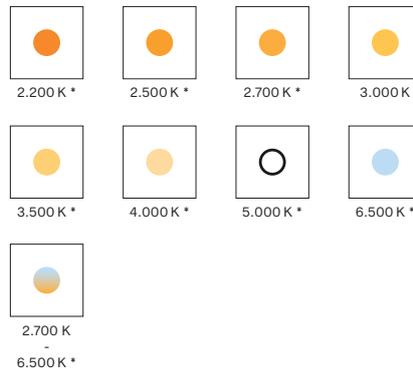
## COLOURS

\* UPON REQUEST

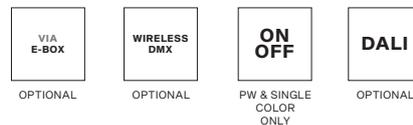


## COLOUR TEMPERATURE

\* UPON REQUEST



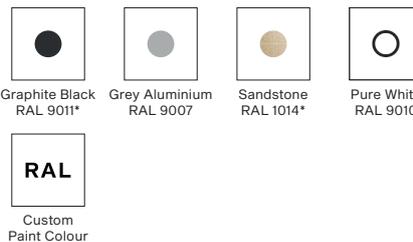
## CONTROL & PROTOCOLS



## FINISH OPTIONS

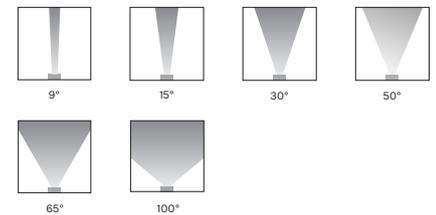
\* CLOSEST RAL TONE

All standard finish options are available in a harsh environment finish.

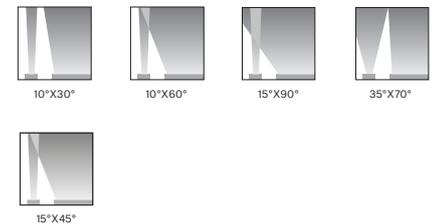


## OPTIC OPTIONS

### SYMMETRICAL



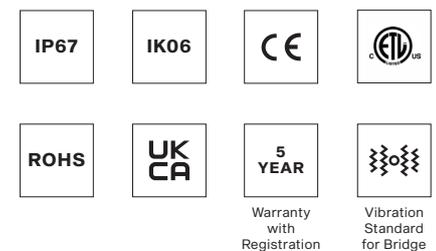
### BI-SYMMETRICAL



### ASYMMETRICAL



## STANDARD & SPECIFICATION



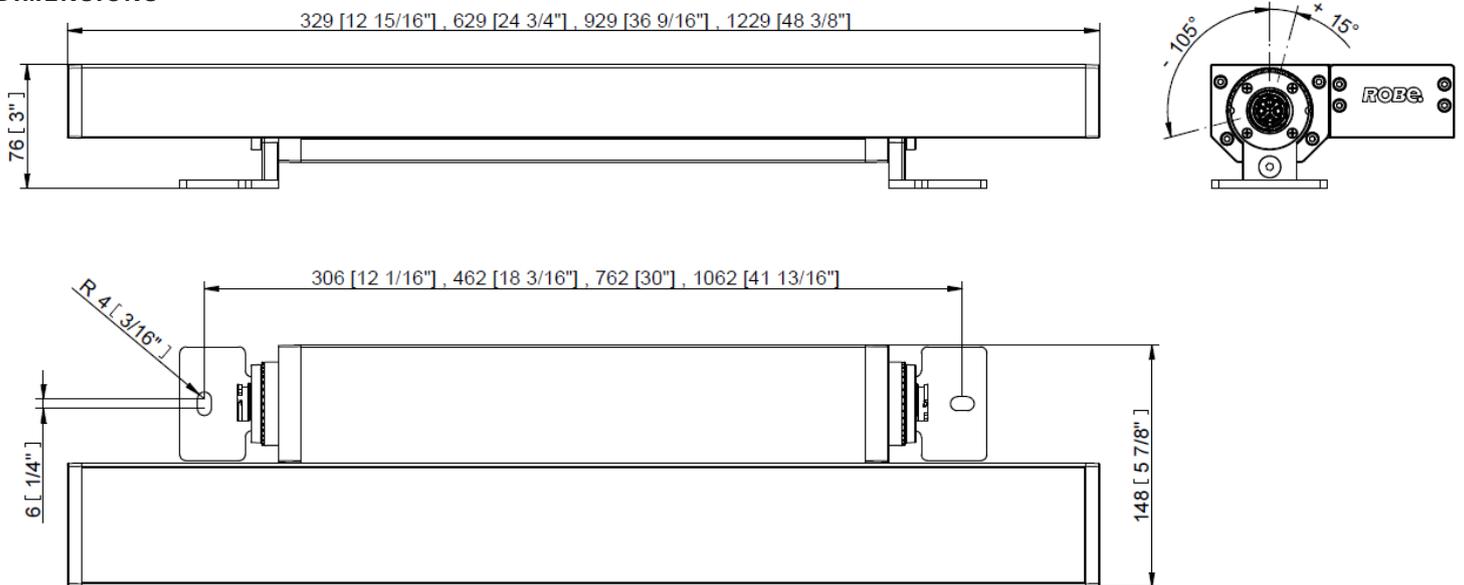
**SPECIFICATION**

<b>ELECTRICAL</b>	Input Voltage	120 - 277 V AC 50/60 Hz				
	Typical Power Consumption	<b>Eminere Side 1:</b> 25 W		<b>Eminere Side 3:</b> 65W		
		<b>Eminere Side 2:</b> 45W		<b>Eminere Side 4:</b> 85W		
<b>OPTICAL</b>	Light Source	<b>Eminere Side 1:</b> 12 x High Power Single Chip LEDs		<b>Eminere Side 3:</b> 36 x High Power Single Chip LEDs		
		<b>Eminere Side 2:</b> 24 x High Power Single Chip LEDs		<b>Eminere Side 4:</b> 48 x High Power Single Chip LEDs		
	Colour Variants	RGBW (W - 6.500 K)		RGBA	PW (W - 3.000 K)	
		On Request: TW (2700 - 6500 K)   2.200 K   2.500 K   2.700 K   3.500 K   4.000 K   5.000 K   6.500 K				
	Beam Angle	Symmetrical:	9°   15°   30°   50°   65°   100°			
		Bi-symmetrical:	10° x 30°   10° x 60°   35° x 70°   15° x 90°   15° x 45°			
Asymmetrical:		Wallwasher   Wide Wallwasher				
Lumen Output Delivered	<b>Eminere Side 1:</b> 1.147 lm, RGBW @ 9°		<b>Eminere Side 3:</b> 3.441 lm, RGBW @ 9°			
	<b>Eminere Side 2:</b> 2.294 lm, RGBW @ 9°		<b>Eminere Side 4:</b> 4.588 lm, RGBW @ 9°			
Projected Lumen Maintenance	L90B10 >90.000 hrs, Ta = 25°C / 77°F					
<b>CONTROL</b>	Interface Protocol	Via E-Box range, Wireless DMX (excluded Eminere Side 1), ON/OFF (PW & single color only, No dimming), DALI 2 (CE only)				
	E-Box Control Protocols	USITT DMX512, RDM, ArtNet, MA Net, MA Net2, sACN, Kling-Net				
	Wireless DMX (Option)	Lumen Radio CRMX Technology				
	Operating Modes	Pixel (12 LEDs/300mm) or Fixture mode				
	Setting / Addressing	Via Two Row LCD Display with Control Buttons or RDM communicator				
	Power Supply	Integrated				
	Connectivity	E-box Lite   E-box Daisy	127 of Eminere Side 1 (@ 230 V and 30m cable) via 1 Output			
		E-box Star	127 of Eminere Side 1 (@ 230 V and 30m cable) via 6 Outputs			
<b>PHYSICAL</b>	Width x Height x Length	<b>Eminere Side 1 / 2 / 3 / 4</b>	148 x 76 x 329 / 629 / 929 / 1229 mm			
			5.82 x 2.99 x 12.95 / 24.76 / 36.57 / 48.38 in.			
	Weight	2.95 kg / 6.5 lbs	4.75 kg / 10.47 lbs	7 kg / 15.43 lbs	8.92 kg / 19.67 lbs	
		High Pressure Extruded Aluminium Body				
	Housing	End Caps - Die-Cast Aluminium				
		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	IP67 Hybrid Connection (Power + Data)				
Mounting Method	Surface Mount With Different Type of Brackets					
Adjustability	-105° / +15°					
Protection Factor	IP67 / Suitable For Wet Locations					
IK Rating	IK06					
Cooling System	Convection					
Operating Ambient Temperature	-20 °C / +50 °C (-4 °F / +122 °F)					
Operating Temperature	+67 °C @ Ambient +50 °C (+153 °F @ Ambient +122 °F)					
<b>CERTIFICATION</b>	Listings	ETL / cETL, CE, RoHS, UKCA				

**Not Included Items**

Mounting Brackets	Mounting Brackets 50   100   200   300 mm   Custom length	
Shields	Shield For Eminere Side 1   2   3   4	
Barndoors	Barndoor (with or without Side Covers) for Eminere Side 1   2   3   4	
	Optical Demo Set for Eminere Side	
<b>ACCESSORIES</b>	Field Installable Connector FF	Field Installable Connector FM
	Cable CE WCA	Cable US WCA
Cables and Connectors	Waterproof Cover Cap FM ZAHB-0006	
	CE/UL Leader Cables FF for Eminere 2   5   10   25   50m	
	CE/UL Jumper Cables FF/FM for Eminere 0.25   0.5   1   2   3   5   10m	
	Junction Box for Calumma S / Eminere	
Booster Box	Booster Box	

**DIMENSIONS**



**PHOTOMETRIC OVERVIEW**

Based on RGBW version, all leds @ full

Lumen Output (lm)

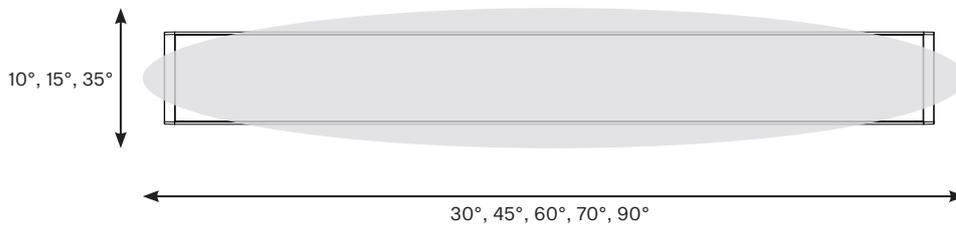
	EMINERE SIDE 1	EMINERE SIDE 2	EMINERE SIDE 3	EMINERE SIDE 4
<b>9°</b>	1147	2 294	3 441	4 588
<b>15°</b>	978	1 956	2 910	3 912
<b>30°</b>	1 046	2 092	3 138	4 184
<b>50°</b>	1 039	2 078	3 117	4 156
<b>65°</b>	1 040	2 080	3 120	4 160
<b>100°</b>	996	1 992	2 988	3 984
<b>10° x 30°</b>	1 032	2 064	3 096	4 128
<b>10° x 60°</b>	1 051	1 874	2 811	3 748
<b>15° x 90°</b>	970	1 940	2 934	3 880
<b>35° x 70°</b>	1 040	2 080	3 120	4 160
<b>15° x 45°</b>	1 060	2 120	3 180	4 240
<b>WallWasher</b>	952	1 904	2 856	3 806
<b>Wide WallWasher</b>	854	1 708	2 562	3 416

**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>Eminere Side 1</b>   with Shield	<b>0,024</b>   0,041	<b>0,258</b>   0,441	<b>0,007</b>   -	<b>0,075</b>   -	<b>0,050</b>   0,051	<b>0,538</b>   0,549
<b>Eminere Side 2</b>   with Shield	<b>0,041</b>   0,074	<b>0,441</b>   0,796	<b>0,007</b>   -	<b>0,075</b>   -	<b>0,084</b>   0,085	<b>0,904</b>   0,914
<b>Eminere Side 3</b>   with Shield	<b>0,063</b>   0,111	<b>0,678</b>   1,194	<b>0,007</b>   -	<b>0,075</b>   -	<b>0,129</b>   0,131	<b>1,388</b>   1,409
<b>Eminere Side 4</b>   with Shield	<b>0,115</b>   0,150	<b>0,925</b>   1,614	<b>0,007</b>   -	<b>0,075</b>   -	<b>0,173</b>   0,175	<b>1,861</b>   1,883

**BI-SYMMETRICAL BEAM ANGLES**

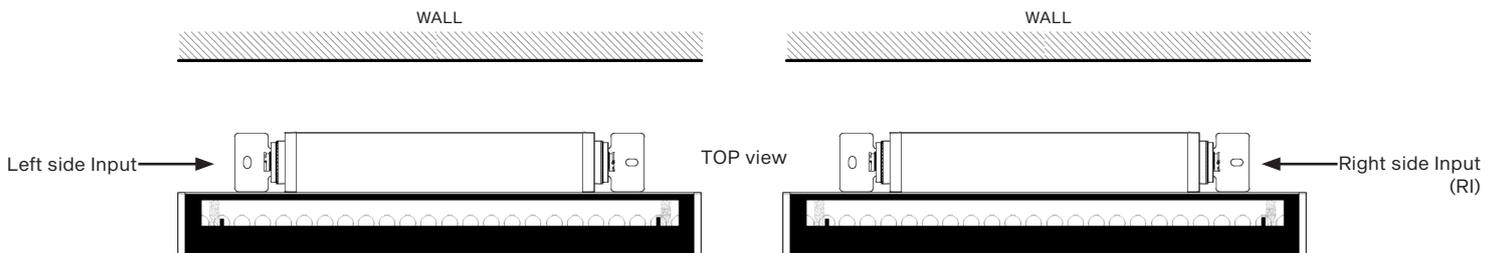
Bi-symmetrical: 10°x30°, 10°x60°, 35°x70°, 15°x90°



**EMINERE SIDE INPUT OPTIONS**

STANDARD

UPON REQUEST

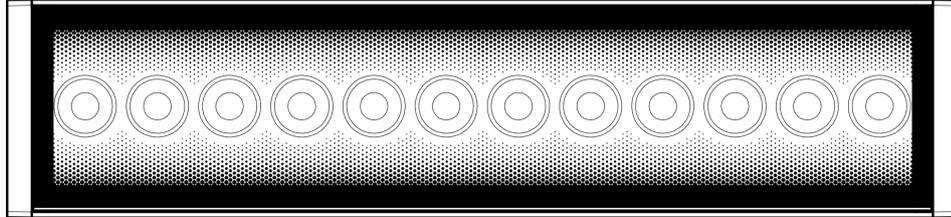


**Note: Applies for all optic versions.**

COLOUR MIXING PRINTS

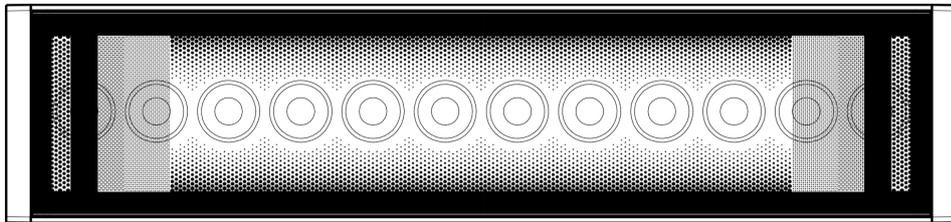
**STAND ALONE** Specially designed glass printing to achieve optimal colour mixing and intensity distribution.

**HEAD2HEAD** Fixtures without special end glass print installed right next to each other create absolutely perfect colour and intensity overlap.

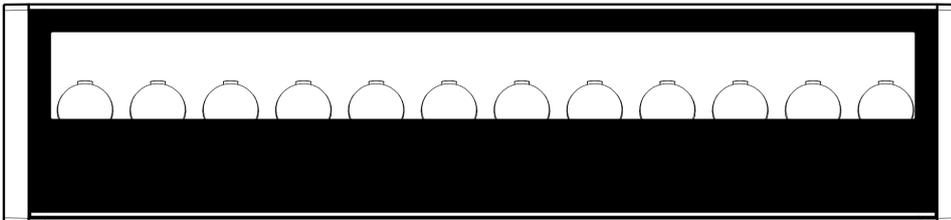


HEAD2HEAD

SYMMETRICAL

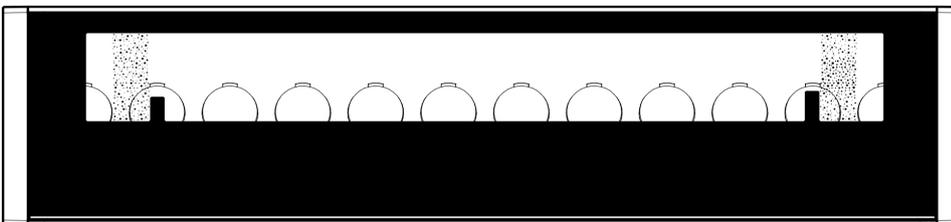


STAND ALONE



HEAD2HEAD

WALLWASHER



STAND ALONE

**Note: Applies for RGBW, RGBA versions. Pure white and Tunable white versions are always without the end print (no matter on their position to other fixture).**

## E-BOX SPECIFICATION

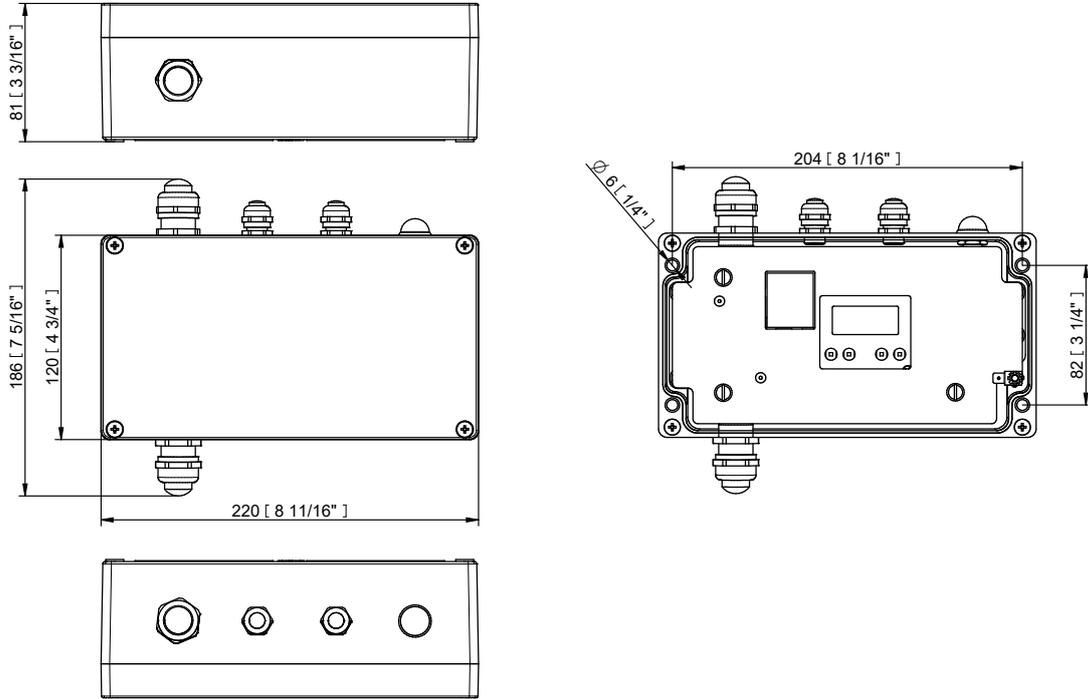
<b>ELECTRICAL</b>	Input Voltage	120 – 277 V AC 50/60 Hz		
	Wireless DMX (Option)	Lumen Radio CRMX Technology		
	Interface Protocol	<b>E-box Lite:</b> USITT DMX512, RDM		
		<b>E-box Daisy / Star:</b> USITT DMX512, RDM, ArtNet, MA Net, MA Net2, sACN, Kling-Net		
Operating Modes	<b>E-box Lite / Daisy:</b> Fixture Mode, Pixel Mode, Output Mode			
	<b>E-Box Star:</b> Total Mode, Fixture Mode, Pixel Mode, Output Mode			
<b>CONTROL</b>	Display	Via Two Row LCD Display with Control Buttons or RDM communicator		
	Control System	E-box With Self Addressing Feature or Custom Setting Via LCD Display/RDM		
	Power Supply	Integrated		
	Connectivity	<b>E-box Lite</b>	127 of Eminere Side 1 (@ 230 V and 30m cable) via 1 Output	
		<b>E-box Daisy</b>	127 of Eminere Side 1 (@ 230 V and 30m cable) via 1 Output	
		<b>E-box Star</b>	127 of Eminere Side 1 (@ 230 V and 30m cable) via 6 Outputs	
	Length x Width x Height	<b>E-box Lite</b>	220 x 120 x 81 mm (8.66 x 4.72 x 3.18 in.)	
		<b>E-box Daisy</b>	260 x 160 x 91 mm (10.24 x 6.30 x 3.58 in.)	
		<b>E-box Star</b>	280 x 230 x 111 mm (11.02 x 9.06 x 4.37 in.)	
	Weight	1.67 kg   3.85 lbs	2.78 kg   6.13 lbs	4.4 kg   9.7 lbs
Housing	Die-Cast Aluminium Case			
Finish Options	Standard Colour - Graphite Black (RAL 9011)   Silver (RAL 9006)			
	Cost Option - Custom RAL   Harsh Environment (RAL 9016, RAL 9011)			
Cables / Connections	Cable Grommet (stainless steel)			
Mounting Method	Surface Mount , 4 Mounting Holes			
Protection Factor	IP67 / Suitable For Wet Locations			
IK Rating	IK10			
Cooling System	Convection			
Operating Ambient Temperature	-20 °C / +40 °C (-4 °F / +104 °F)			
<b>CERTIFICATION</b>	Listings	ETL / cETL, CE, RoHS, UKCA		

## COMPARISON

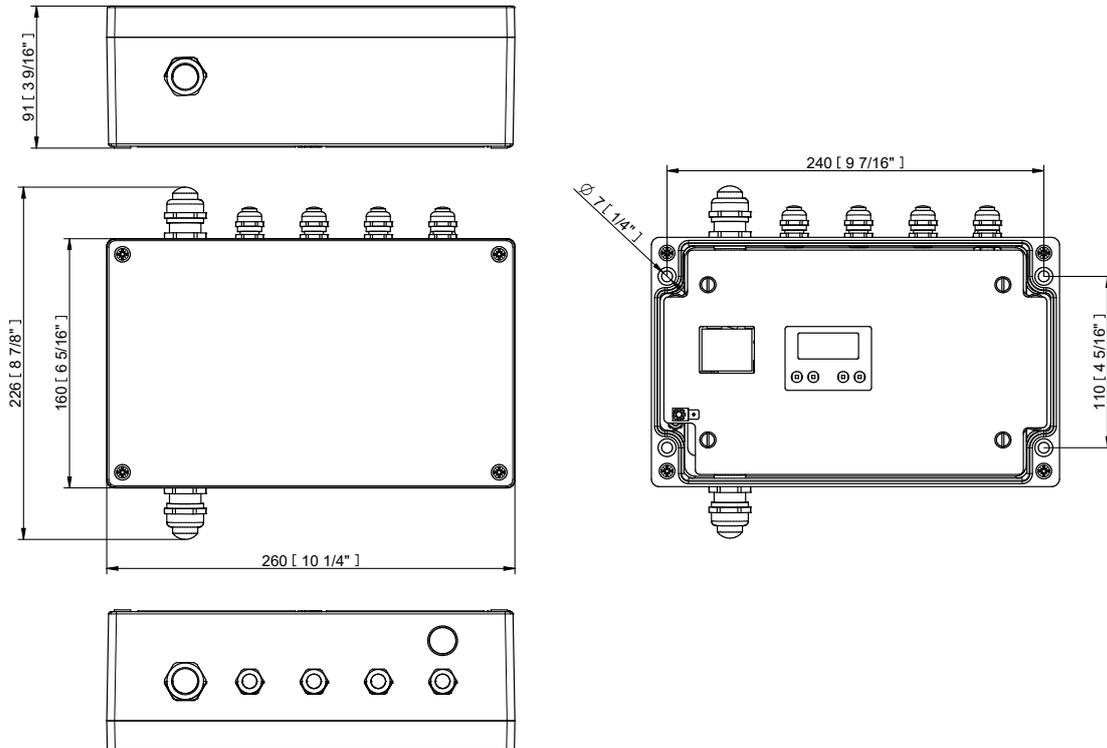
	E-BOX LITE	E-BOX DAISY	E-BOX STAR
<b>Power input</b>	1	1	1
<b>Fixture Output</b>	1	1	6
<b>Total load (current)</b>	16A	16A	16A
<b>DMX control</b>	YES	YES	YES
<b>RDM</b>	YES	YES	YES
<b>Art-Net</b>	NO	YES	YES
<b>Ethernet switch</b>	NO	YES	YES
<b>Kling-Net</b>	NO	YES	YES
<b>sACN</b>	NO	YES	YES
<b>MA Net, MA Net2</b>	NO	YES	YES

E-BOX DIMENSIONS

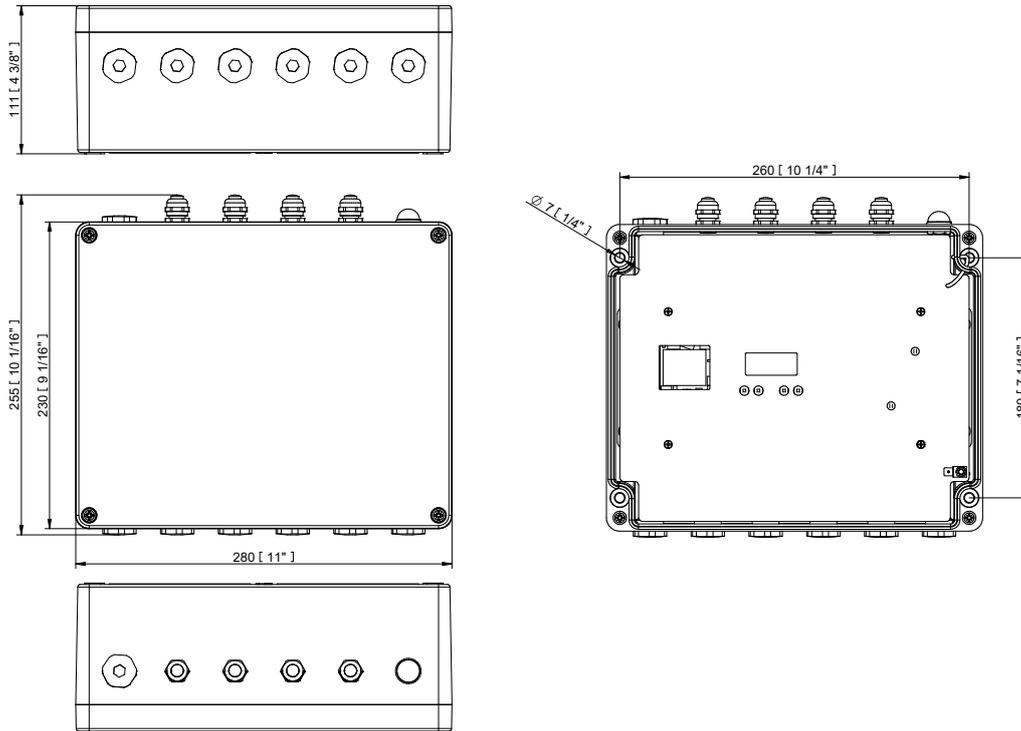
E-BOX LITE



E-BOX DAISY



E-BOX STAR

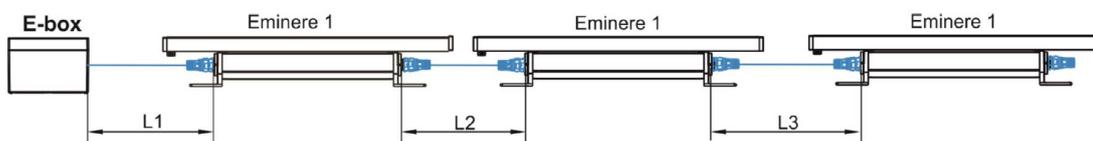


CONNECTIVITY

The tables below state max. theoretical number of Emineres connected to the one LED output of the E-box without using Booster boxes.

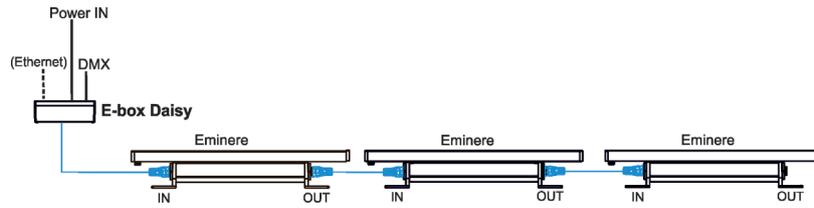
	Cable length (m)	Voltage (V)			
		120	190	230	277
EMINERE 1	10	66	104	127	152
	20	66	104	127	152
	30	46	104	127	152
	50	28	70	102	148
	70	20	50	73	106
	100	13	35	51	74
	200	7	17	25	37
EMINERE 2	10	36	56	69	83
	20	36	56	69	83
	30	24	56	69	83
	50	15	38	56	80
	70	10	27	40	57
	100	9	18	28	40
	200	3	9	16	20

	Cable length (m)	Voltage (V)			
		120	190	230	277
EMINERE 3	10	25	40	48	59
	20	25	40	48	59
	30	17	40	48	59
	50	11	26	39	57
	70	7	19	28	40
	100	5	13	19	28
	200	2	6	10	14
EMINERE 4	10	19	31	37	45
	20	19	31	37	45
	30	14	31	37	45
	50	8	20	30	44
	70	5	15	21	35
	100	3	10	15	21
	200	1	4	7	11

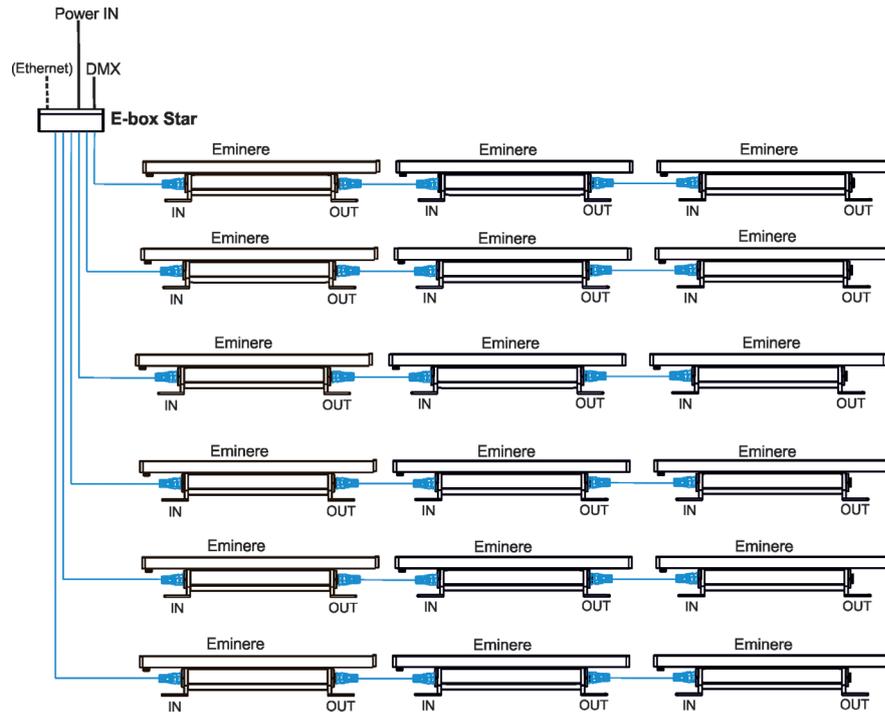


**Note:** Cable length is a total cable length between E-box and last connected Eminere. Example: Total cable length=L1+L2+L3. For more information see User Manual.

**CONNECTION**  
**E-BOX LITE / DAISY**



**E-BOX STAR**



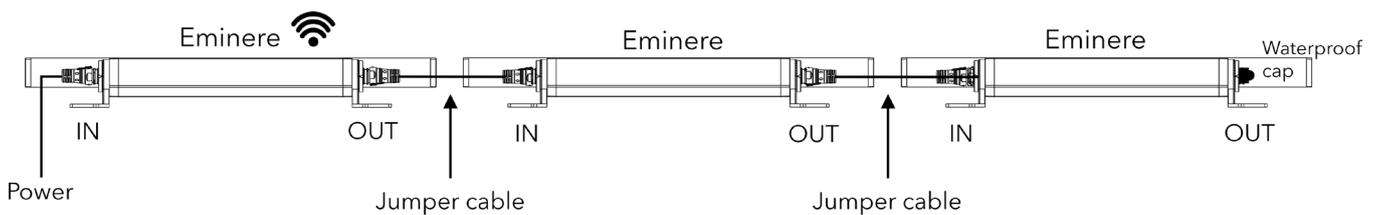
**CONNECTION - WIRELESS VERSION**

Connection setup, where every Eminere is independently accepting data from WIFI.

**A**



**B**



**CONNECTION - ON / OFF VERSION**

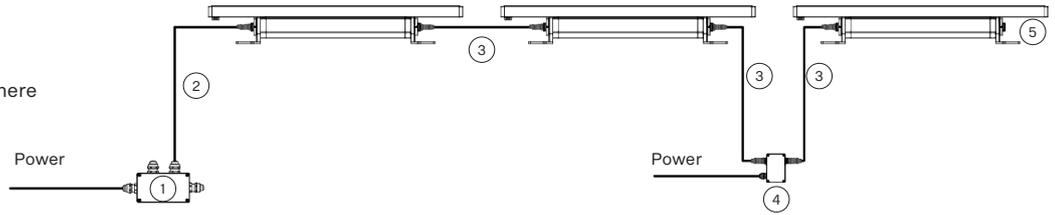
**A** 1) Junction Box or by Others

2) CE/UL Leader Cables FF for Eminere  
2 | 5 | 10 | 25 | 50 m

3) CE/UL Jumper Cables FF/FM for Eminere  
0.25 | 0.5 | 1 | 2 | 3 | 5 | 10 m

4) Booster Box

5) Waterproof Cap

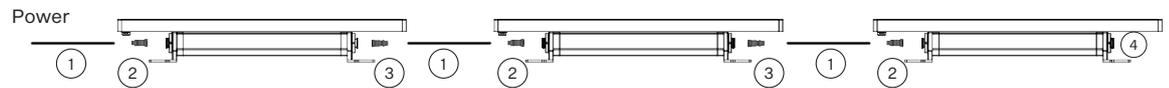


**B** 1) Power Cable (by Others)

2) Field Installable Connector FF (13053003)

3) Field Installable Connector FM (13053004)

4) Waterproof Cap



**CONNECTION - DALI VERSION (CE)**

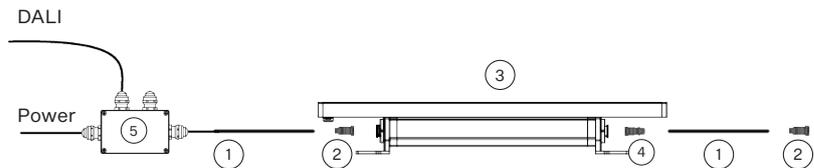
1) Hybrid Cable (13053693) Standard with bare-end

2) Field Installable Connector FF DC-05 (13053971)

3) Eminere DALI with Panel Connector MM (13053975) &  
Panel Connector MF (13053974)

4) Field Installable Connector FM DC-05 (13053973)

5) Junction Box



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

**CONNECTION - DALI VERSION (US)**

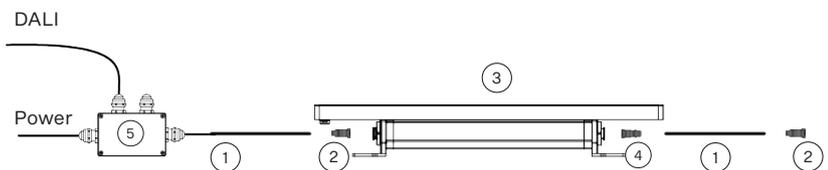
1) SJTW 5x14 AWG (13053693), Standard 1 m with bare-end, black  
or on request Cable SJTW 5x14 AWG (13053697), with bare-end, white

2) Field Installable Connector FF DC-05 (13053971)

3) Eminere DALI with Panel Connector MM (13053975)  
& Panel Connector MF (13053974)

4) Field Installable Connector FM DC-05 (13053973)

5) Junction Box

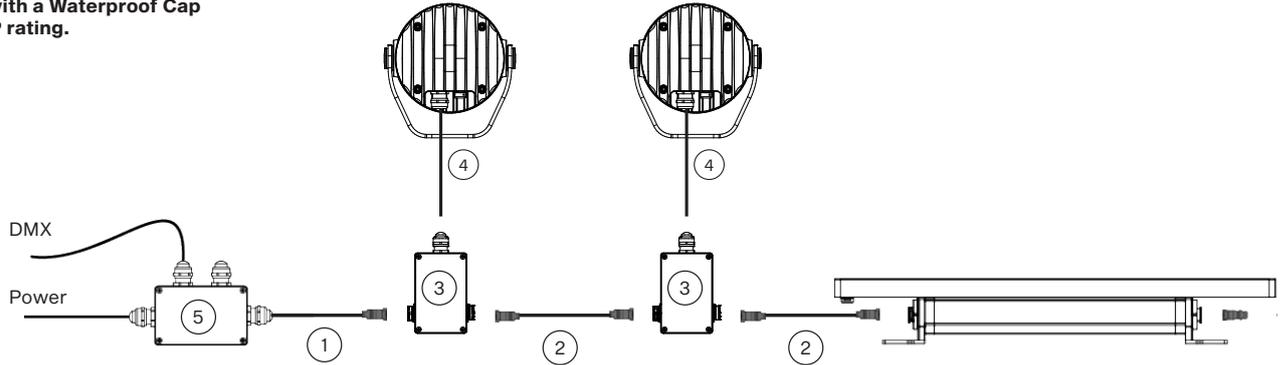


**Note: The last unplugged connector must be fitted with a Waterproof Cap to protect the IP rating.**

**DMX WITH JUNCTION BOX FOR CALUMMA S / EMINERE (CE)**

- 1) Leader Cables FF for Eminere - 2 | 5 | 10 | 25 | 50 m
- 2) Jumper Cables FF/FM for Eminere - 0.25 | 0.5 | 1 | 2 | 3 | 5 | 10 m
- 3) Junction Box for Calumma S / Eminere (10981268 for RAL9011)
- 4) Flamar 3x16 AWG + 1x(2x24 AWG) Standard 1 m with bare-end, (13051508), black or Hybrid Cable HYB-5731ZH LSZH (13053694), white
- 5) Junction Box

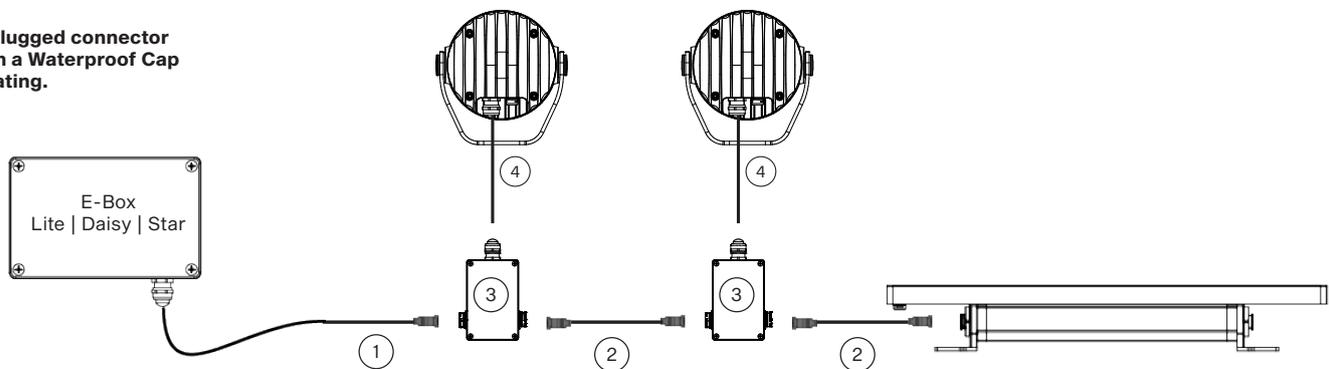
**Note: The last unplugged connector must be fitted with a Waterproof Cap to protect the IP rating.**



**DMX WITH JUNCTION BOX FOR CALUMMA S / EMINERE (US)**

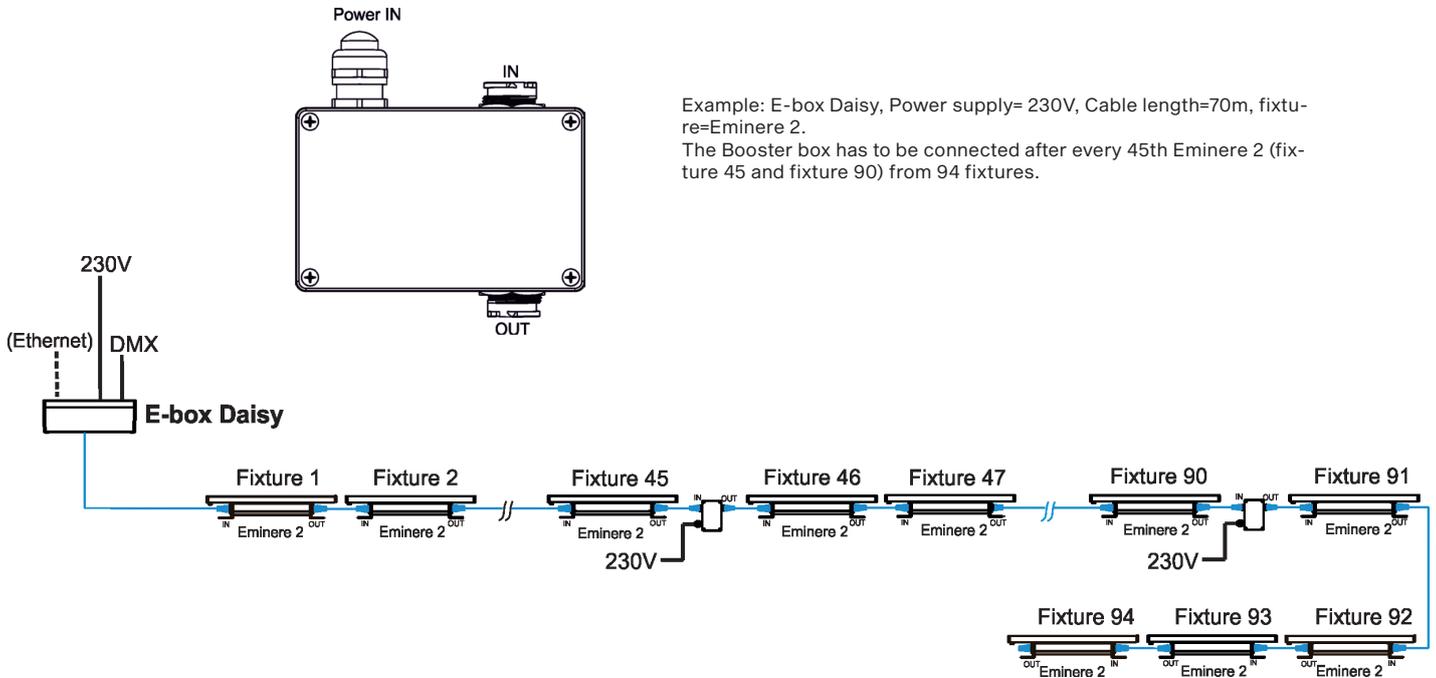
- 1) Leader Cables FF for Eminere - 2 | 5 | 10 | 25 | 50 m
- 2) Jumper Cables FF/FM for Eminere - 0.25 | 0.5 | 1 | 2 | 3 | 5 | 10 m
- 3) Junction Box for Calumma S / Eminere (10981269 for RAL9011)
- 4) SJTW 6x14 AWG (13053480) Standard 1 m with bare-end, black or Cable SJTW 6x14 AWG (13053695), white

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

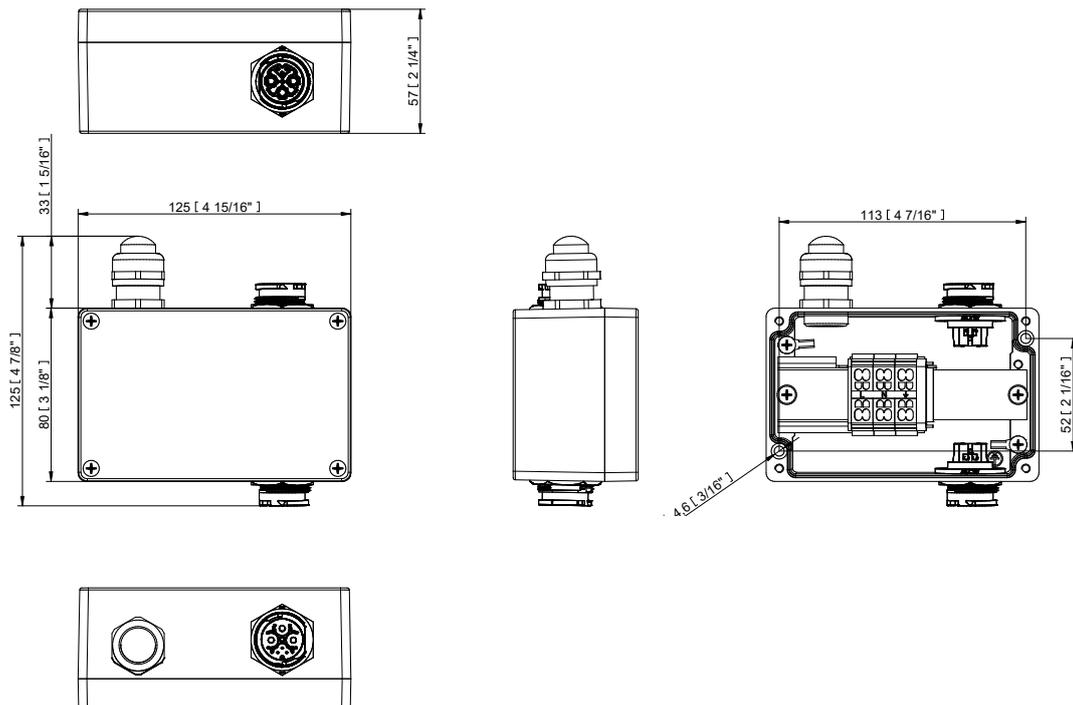


**THE BOOSTER BOX**

To compensate a voltage drop in a large installation, the Booster boxes have to be connected in the chain of Eminere modules.



**BOOSTER BOX DIMENSIONS**



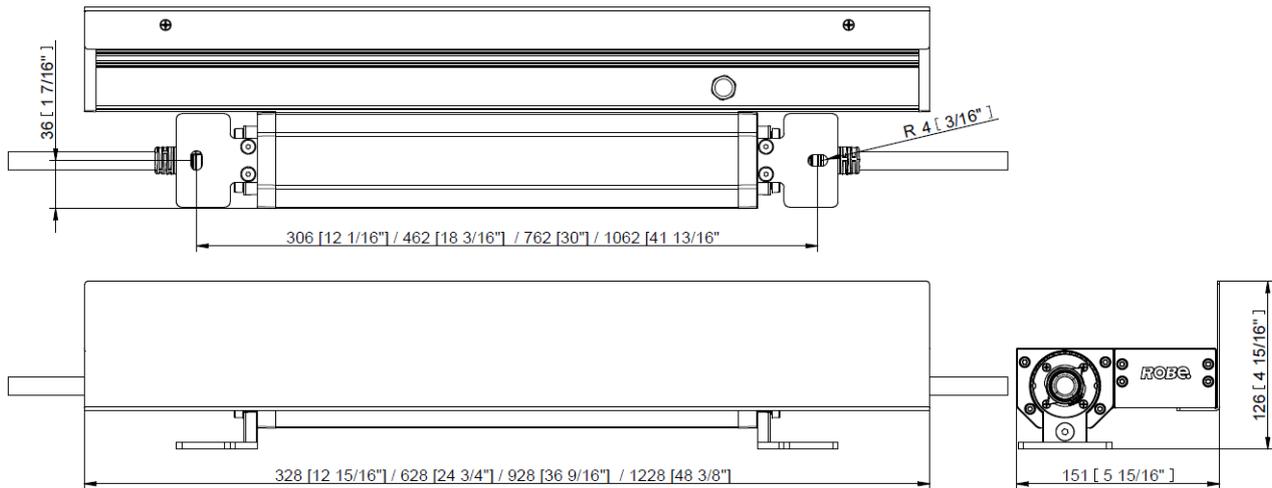
**BOOSTER BOX POSITIONS**

	Cable length (m)	Max. number of Emineres 1 = 191 (in Standard mode)			
		120 V	190 V	230 V	277 V
<b>EMINERE 1</b>	10 m	66,132	104	127	-
	20 m	66,132	104	127	-
	30 m	46,92,138	104	127	-
	50 m	28,56,84,112,140	70,140	102	148
	70 m	20,40,60,80,100,120,140	50,100,150	73,146	106
	100 m	13,26,39,52,65,78,91,104,117,130,143	35,70,105,140	51,102	74,148
	200 m	7,14,21,28,35,42,49,56,63,70,77,84,91,98,105,112, 119,126,133,140,147	17,34,51,68,85,102,119,136	25,50,75,100,125,150	37,74,111,148

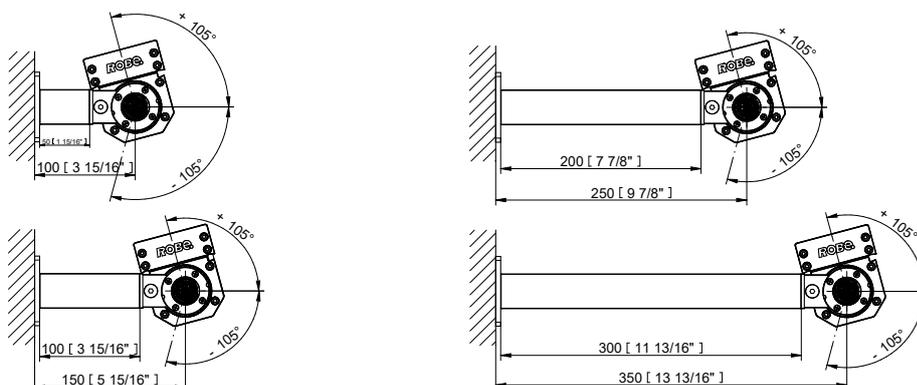
**Note:** For more detail see the User manual.

**ACCESSORIES**

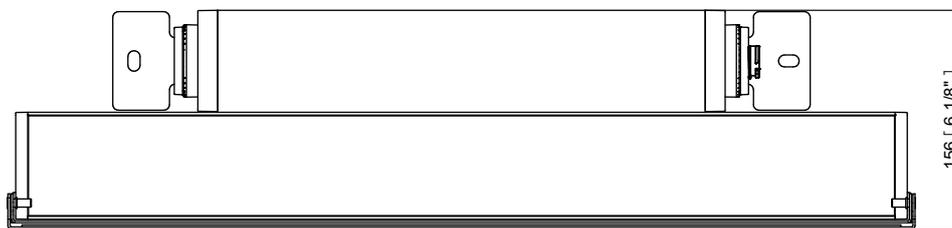
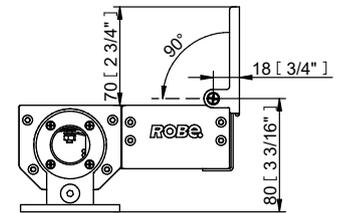
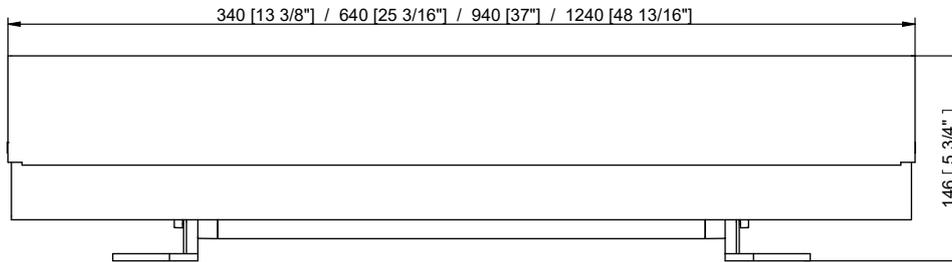
Shield for Eminere side



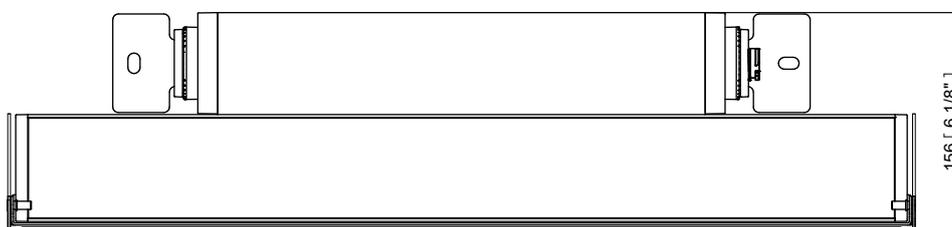
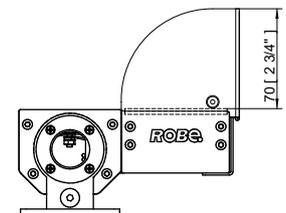
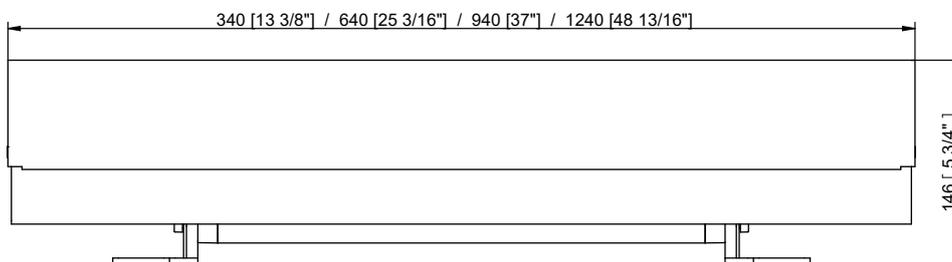
Mounting Brackets for Eminere Side



Barndoor without side cover



Barndoor without side cover



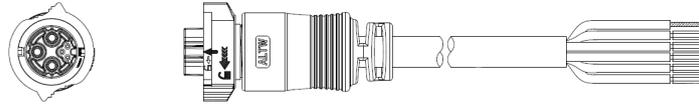
**CABLES**

**Leader Cable**

For connecting E-Box with first Eminere. Comes with Waterproof End Cap which has to be installed to the last Eminere's output connector.

Female connector

Female pins



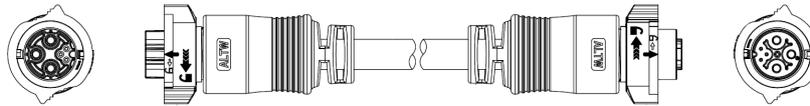
**Jumper Cable**

For connection between two Emineres.

NOTE: Custom length of Jumper cable depends on the distance between two Eminere luminaires (length includes cable and connectors).

Female connector

Female pins



Female connector

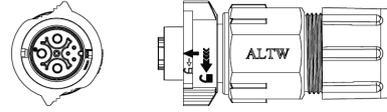
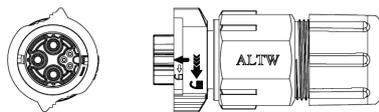
Male pins

**Field installable connector**

For special cases, where Jumper Cable can't be used. Then use Leader Cable with Field installable connector to make a connection between Emineres.

Female connector

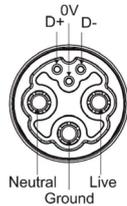
Female pins



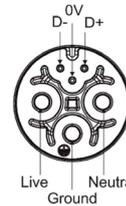
Female connector

Male pins

**Output** - panel connector  
(front view)

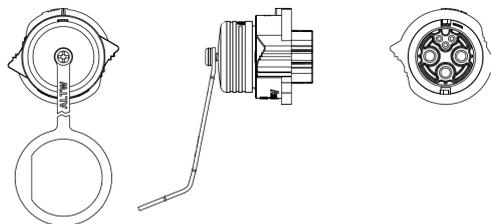


**Input** - panel connector  
(front view)



**Waterproof End Cap**

Install at the end of line to the last Emineres output connector.



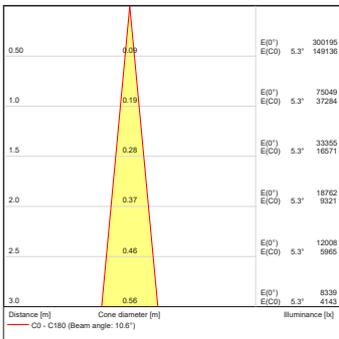
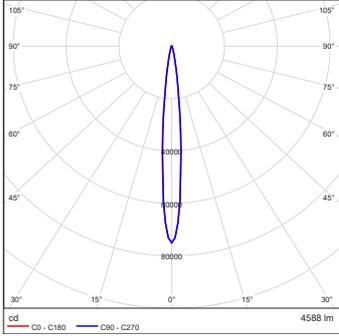
**Cable lengths available**

IN METRES	LEADER CABLE	JUMPER CABLE
0.25	-	YES
0.5	-	YES
1	-	YES
2	YES	YES
3	-	YES

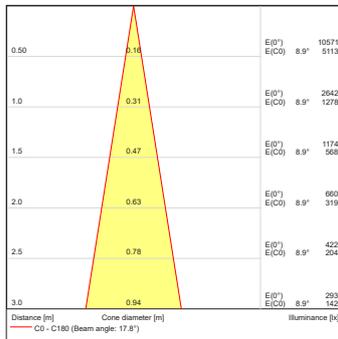
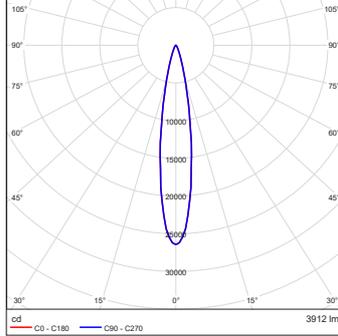
IN METRES	LEADER CABLE	JUMPER CABLE
5	YES	YES
10	YES	YES
25	YES	-
50	YES	-
<b>Other lengths</b>	On Request	

PHOTOMETRIC DATA

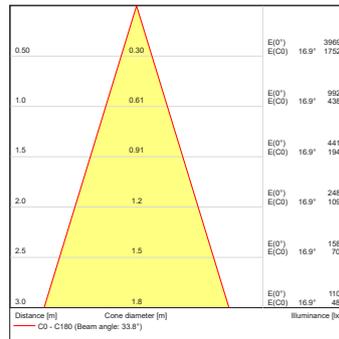
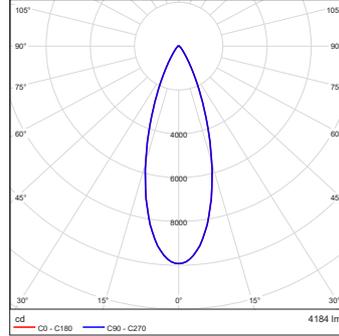
Eminere Side 4 RGBCW 9dg



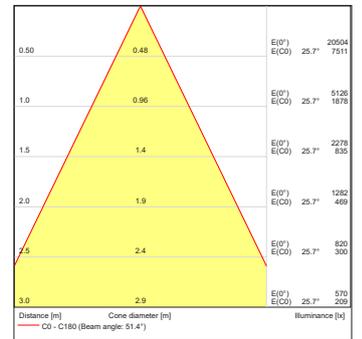
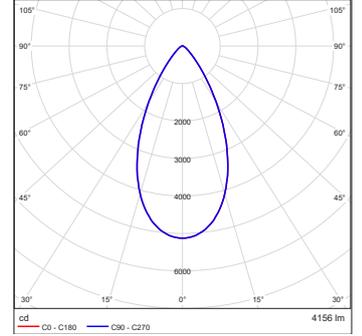
Eminere Side 4 RGBCW 15dg



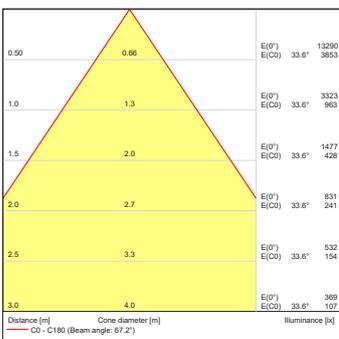
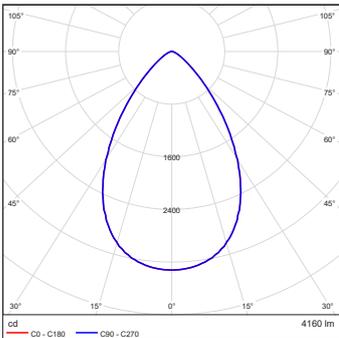
Eminere Side 4 RGBCW 30dg



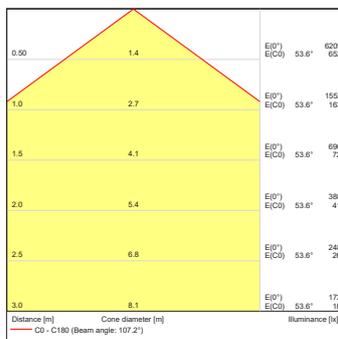
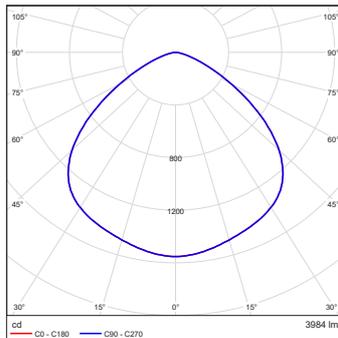
Eminere Side 4 RGBCW 50dg



Eminere Side 4 RGBCW 65dg

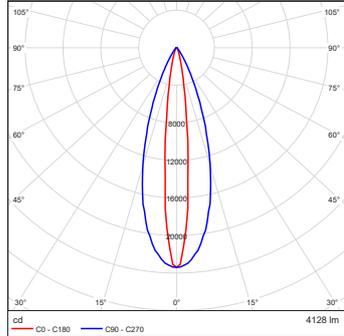


Eminere Side 4 RGBCW 100dg

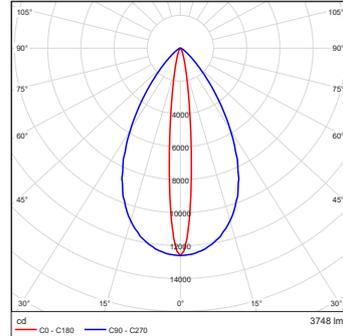


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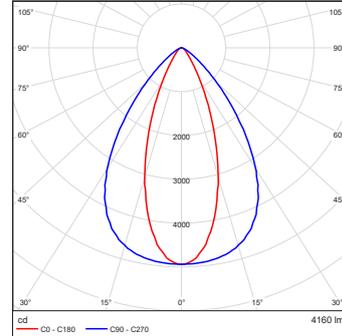
Eminere Side 4 RGBCW 10dg x 30 dg



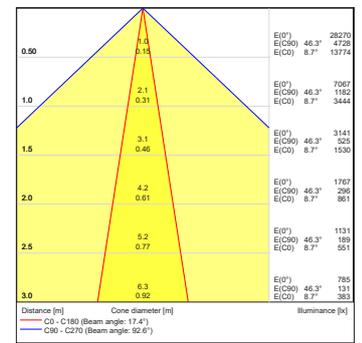
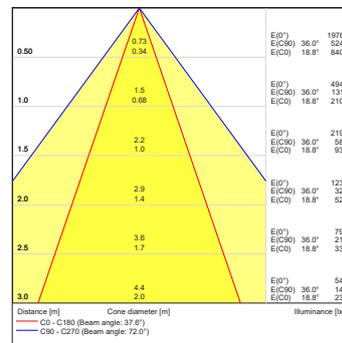
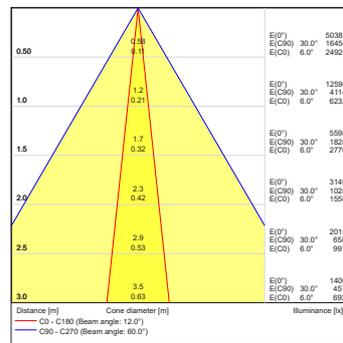
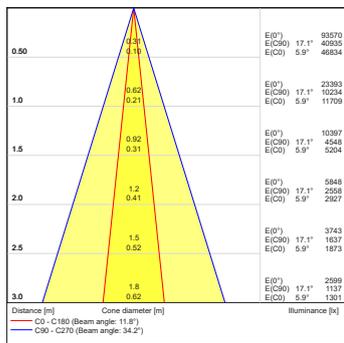
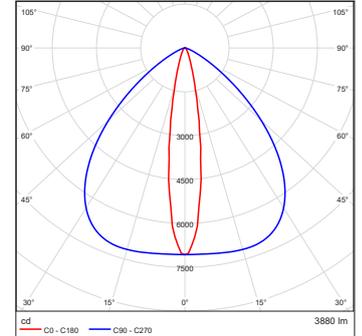
Eminere Side 4 RGBCW 10dg x 60 dg



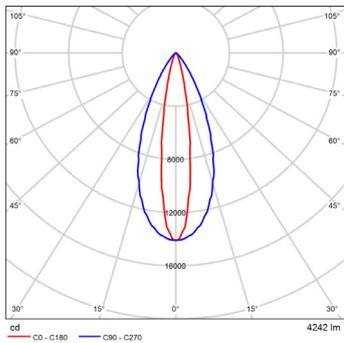
Eminere Side 4 RGBCW 35dg x 70dg



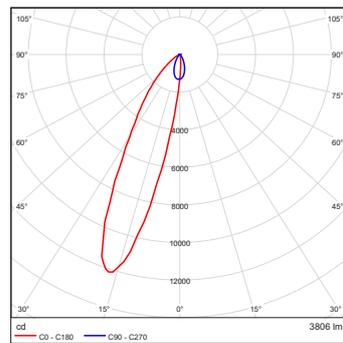
Eminere Side 4 RGBCW 15dg x 90dg



Eminere Side 4 RGBCW 15dg x 45dg



Eminere Side 4 RGBCW WallWasher



Eminere Side 4 RGBCW Wide WallWasher

