

## 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



RGBW



RGBA



Pure White



Tuneable White

### CONTROL & PROTOCOLS



OPTIONAL



OPTIONAL

### COLOUR TEMPERATURE



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 \*

\* UPON REQUEST

### STANDARD & SPECIFICATION



IP67



IK06



CE



ETL



ROHS



UK CA



5 YEAR

Warranty with Registration



Vibration Standard for Bridge

### FINISH OPTIONS



Graphite Black



Silver



RAL

Custom Paint Colour



Harsh Environment

### OPTIC OPTIONS

#### SYMMETRICAL



9°



15°



30°



50°



65°



100°

#### BI-SYMMETRICAL



10°x30°



10°x60°



15°x90°



35°x70°



30°x10°



60°x10°



90°x15°



70°x35°

#### ASYMMETRICAL



WIDE WALLWASHER

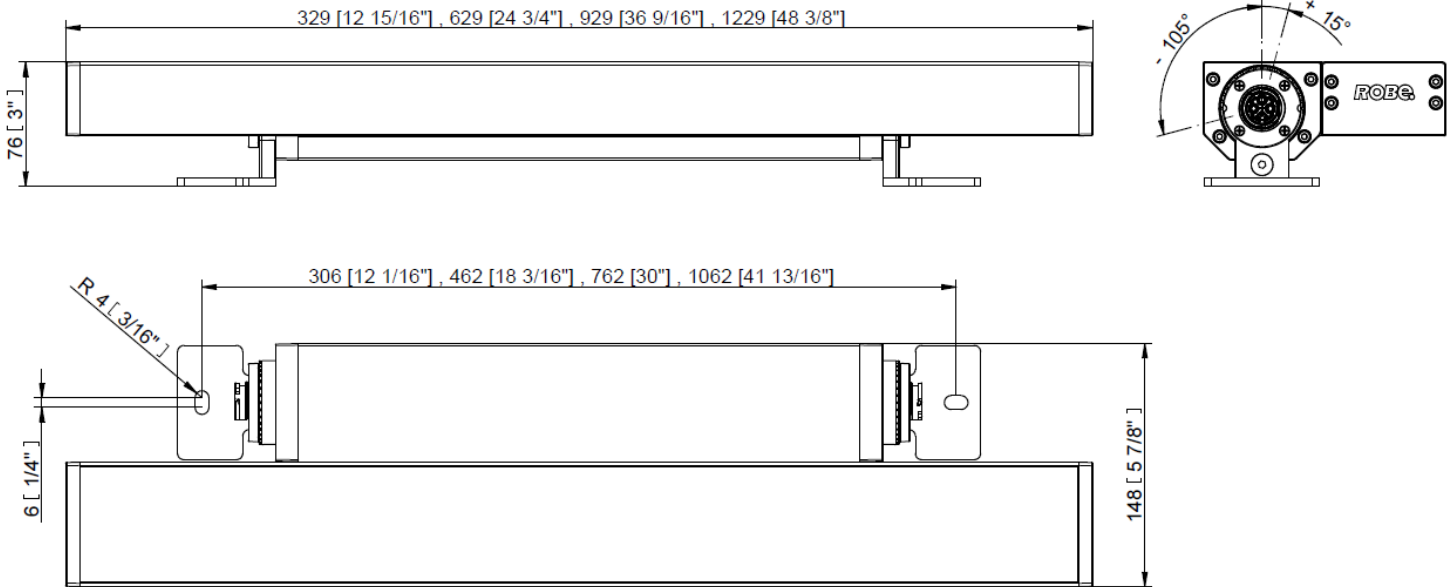


WALLWASHER

EMINERE SIDE SPECIFICATION

<b>ELECTRICAL</b>	Input Voltage	120 - 277 V AC 50/60 Hz			
	Typical Power Consumption	<b>Eminere Side 1 / 2 / 3 / 4</b>		25 W / 45W / 65W / 85W	
<b>OPTICAL</b>	Light Source	12, 24, 36, 48 x High Power Single Chip LEDs			
	Colour Variants	RGBW (W - 6.500 K)		PW (W - 3.000 K)	
		Variants 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°   30° x 10°   10° x 60°   60° x 10°   35° x 70°   70° x 35°   15° x 90°   90° x 15°		
		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 or Wireless DMX (excluded Eminere Side 1)			
	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	144 of Eminere Side 1 (@ 230 V and 40m cable) via 1 Output		
		E-box Daisy	144 of Eminere Side 1 (@ 230 V and 40m cable) via 1 Output		
		E-box Star	144 of Eminere Side 1 (@ 230 V and 40m 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	
Housing		High Pressure Extruded Aluminium Body   End Caps - Die-Cast Aluminium   Tempered Glass			
Finish Options		Standard Colour	Graphite Black (RAL 9011)   Silver (RAL 9006)		
		Cost Option	Custom RAL   Harsh Environment (RAL 9016, RAL 9011)		
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 / +40 °C (-4 °F / +104 °F)			
Operating Temperature		+67 °C @ Ambient +40 °C (+153 °F @ Ambient +104 °F)			
<b>CERTIFICATION</b>	Listings	ETL / cETL, CE, RoHS, UKCA			
<b>ACCESSORIES</b>	Mounting Brackets	Mounting Brackets 50   100   200   300 mm   Custom length			
	Shields	Shield For Eminere Side 1   2   3   4			
	Cables and Connectors	Field Installable Connector FF	Field Installable Connector FM		
		Cable CE WCA	Cable US WCA		
		Waterproof Cover Cap FM ZAHB-0006			
		<b>CE/UL Leader Cables FF for Eminere:</b>	Leader Cable FF 2   5   10   25   50m		
		<b>CE/UL Jumper Cables FF/FM for Eminere:</b>	Jumper Cable FF/FM 0,25   0,5   1   2   3   5   10m		
	Booster Box	Booster Box			

**DIMENSIONS**



**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

**PHOTOMETRIC OVERVIEW**

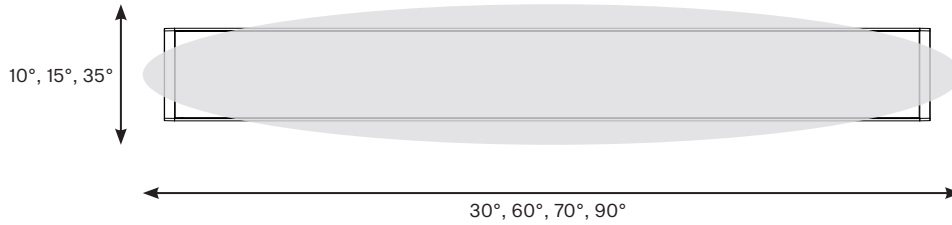
Based on RGBW version, all leds @ full

Lumen Output (lm)

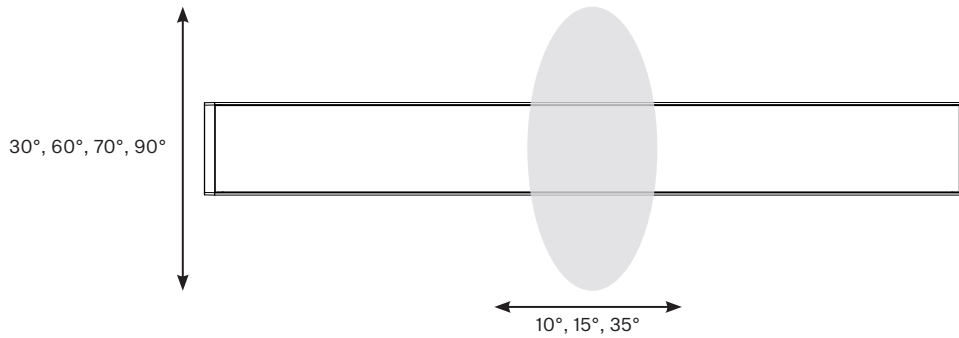
	EMINERE SIDE 1	EMINERE SIDE 2	EMINERE SIDE 3	EMINERE SIDE 4
<b>9°</b>	1147	2 294	3 441	4 588
<b>15°</b>	978	1 956	2 910	3 912
<b>30°</b>	1 046	2 092	3 138	4 184
<b>50°</b>	1 039	2 078	3 117	4 156
<b>65°</b>	1 040	2 080	3 120	4 160
<b>100°</b>	996	1 992	2 988	3 984
<b>10° x 30°</b>	1 032	2 064	3 096	4 128
<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>WallWasher</b>	952	1 904	2 856	3 806
<b>Wide WallWasher</b>	854	1 708	2 562	3 416

**BI-SYMMETRICAL BEAM ANGLES**

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



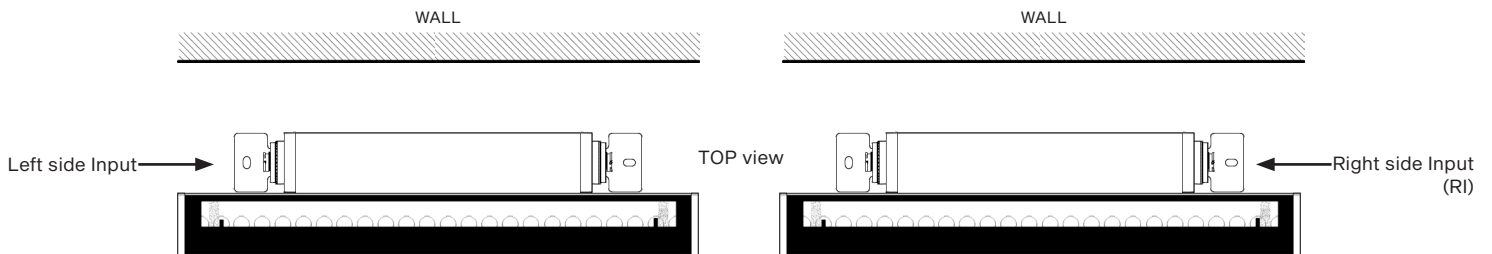
Bi-symmetrical: 30°x10°, 60°x10°, 70°x35°, 90°x15°



**EMINERE SIDE INPUT OPTIONS**

STANDARD

UPON REQUEST

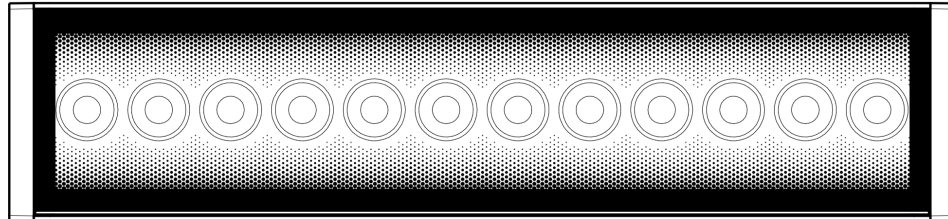


**Note: Applies for all optic versions.**

COLOUR MIXING PRINTS

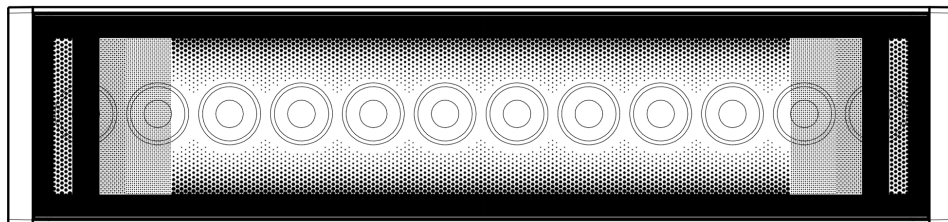
**STAND ALONE** Specially designed glass printing to achieve optimal colour mixing and intensity distribution.

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

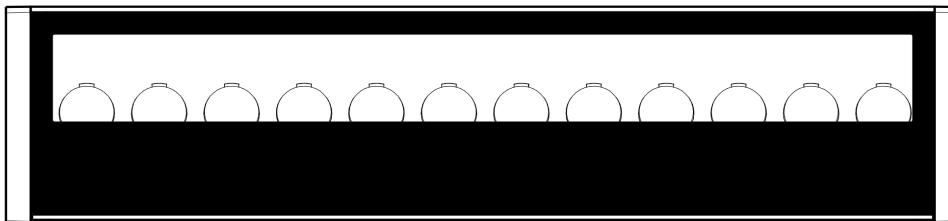


HEAD2HEAD

SYMMETRICAL

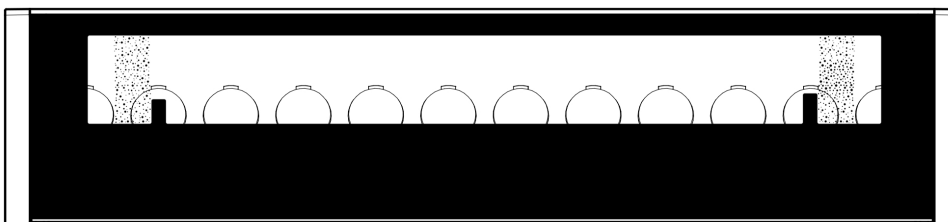


STAND ALONE



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**

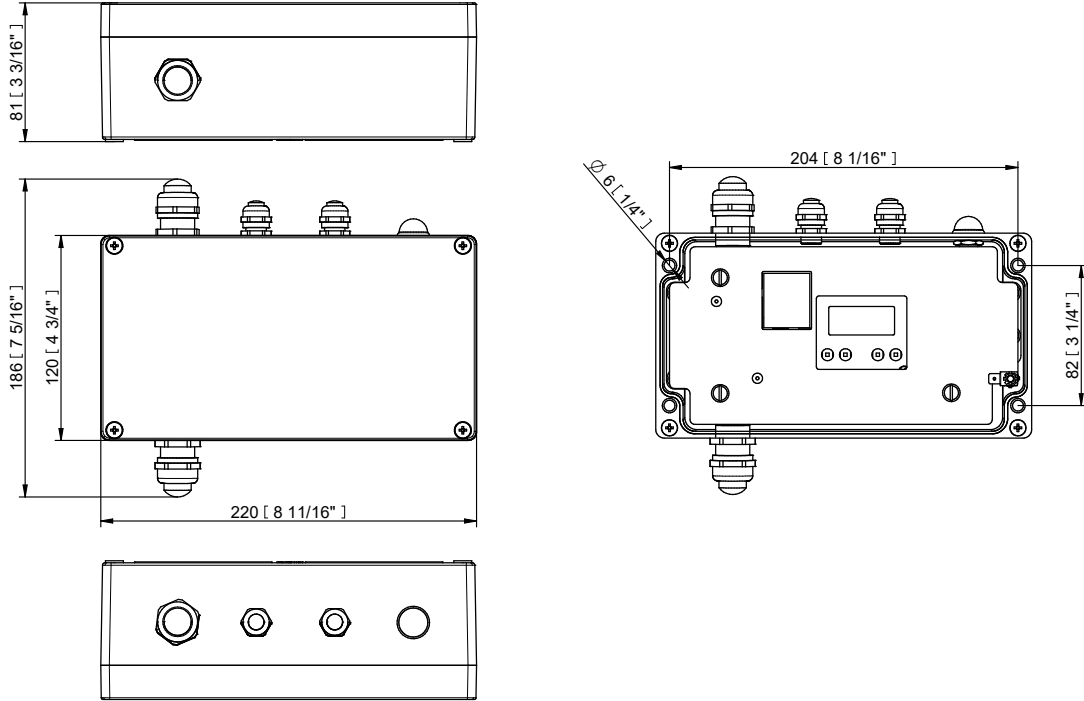
<b>ELECTRICAL</b>	Input Voltage	120 – 277 V AC 50/60 Hz		
	Wireless DMX (Option)	Lumen Radio CRMX Technology		
	Interface Protocol	<b>E-box Lite:</b> USITT DMX512, RDM		
		<b>E-box Daisy / Star:</b> USITT DMX512, RDM, ArtNet, MA Net, MA Net2, sACN, Kling-Net		
Operating Modes	<b>E-box Lite / Daisy:</b> 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>	144 of Eminere Side 1 (@ 230 V and 40m cable) via 1 Output	
		<b>E-box Daisy</b>	144 of Eminere Side 1 (@ 230 V and 40m cable) via 1 Output	
		<b>E-box Star</b>	144 of Eminere Side 1 (@ 230 V and 40m 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**

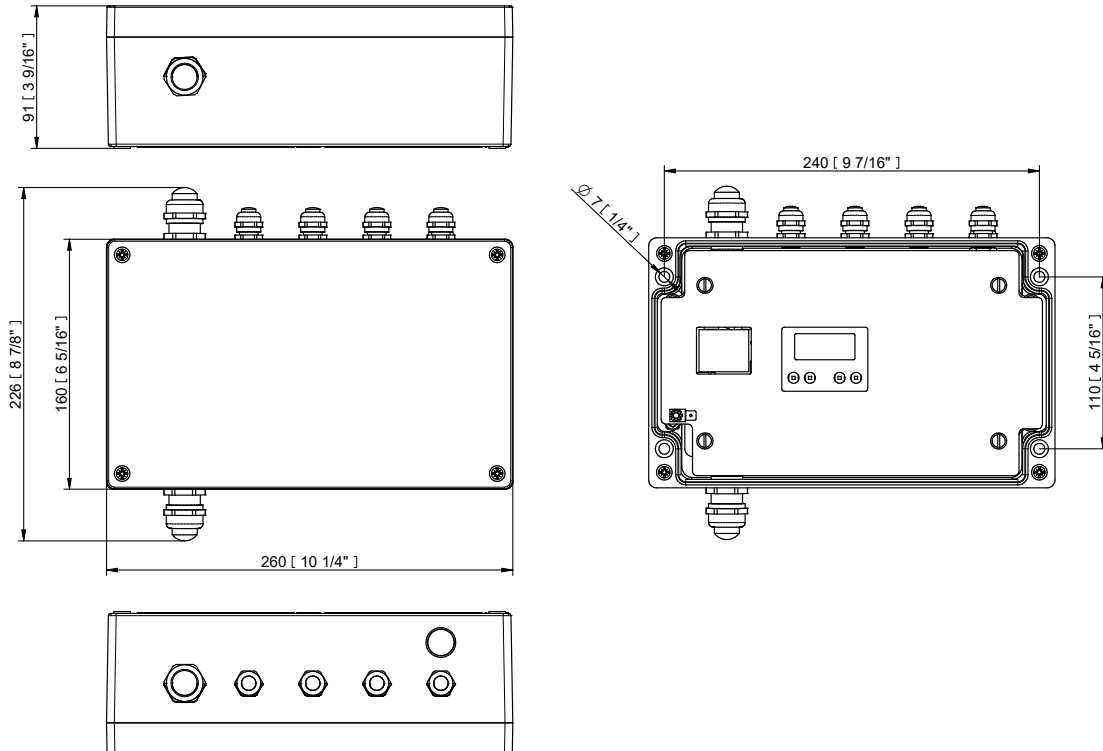
	<b>E-BOX LITE</b>	<b>E-BOX DAISY</b>	<b>E-BOX STAR</b>
<b>Power input</b>	1	1	1
<b>Fixture Output</b>	1	1	6
<b>Total load (current)</b>	16A	16A	16A
<b>DMX control</b>	YES	YES	YES
<b>RDM</b>	YES	YES	YES
<b>Art-Net</b>	NO	YES	YES
<b>Ethernet switch</b>	NO	YES	YES
<b>Kling-Net</b>	NO	YES	YES
<b>sACN</b>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

E-BOX DIMENSIONS

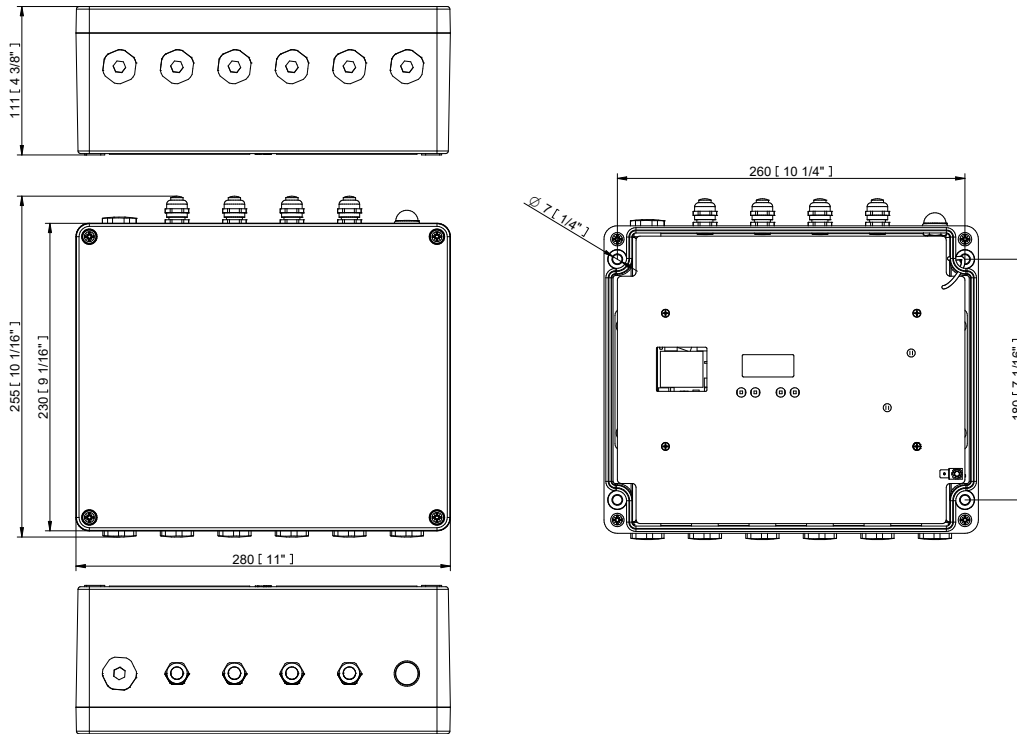
E-BOX LITE



E-BOX DAISY



E-BOX STAR

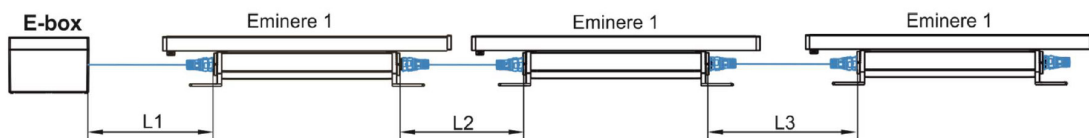


**CONNECTIVITY**

Following table shows maximum connected Emineres on each output of E-Box with respect of cable length.

	Cable length (m)	Voltage (V)						Cable length (m)	Voltage (V)				
		100	120	190	230	277			100	120	190	230	277
<b>EMINERE 1</b>	10	69	83	131	159	191	<b>EMINERE 3</b>	10	23	28	44	53	64
	20	61	83	131	159	191		20	20	28	44	53	64
	30	40	58	131	159	191		30	13	19	44	53	64
	50	24	35	88	128	186		50	8	12	29	43	62
	70	17	25	63	92	133		70	6	8	21	31	44
	100	12	17	44	64	93		100	4	6	15	21	31
	200	6	9	22	32	47		200	2	3	7	11	16
<b>EMINERE 2</b>	10	34	41	64	78	94	<b>EMINERE 4</b>	10	17	21	33	40	48
	20	30	41	64	78	94		20	15	21	33	40	48
	30	20	28	64	78	94		30	10	15	33	40	48
	50	12	17	43	63	91		50	6	9	22	32	47
	70	8	12	31	45	65		70	4	6	16	23	38
	100	6	9	21	31	46		100	3	4	11	16	23
	200	3	4	11	16	23		200	2	2	5	8	12

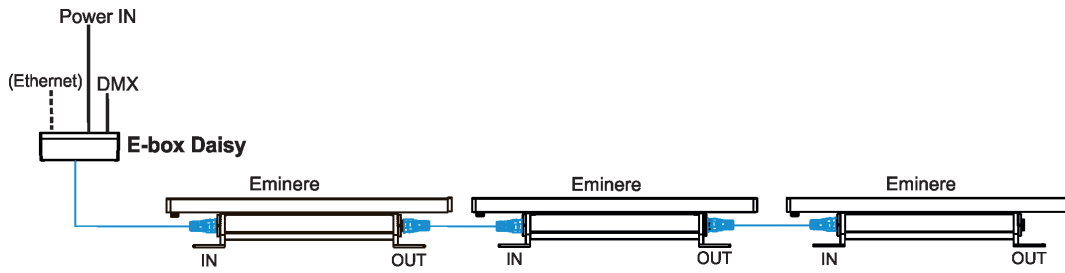
\* Cable length is a total cable length between E-box and last connected Eminere. Example: Total cable length=L1+L2+L3



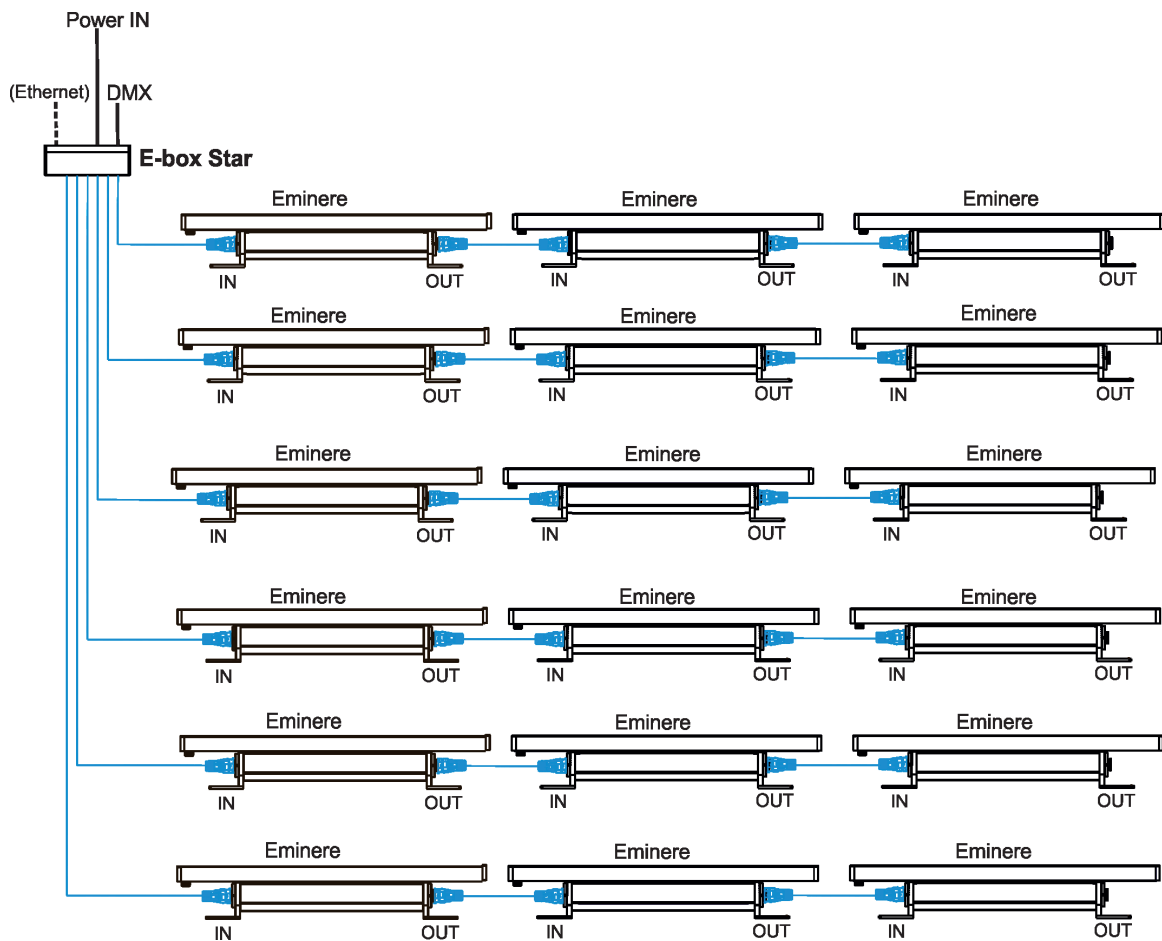


**CONNECTION**

**E-BOX LITE / DAISY**



**E-BOX STAR**



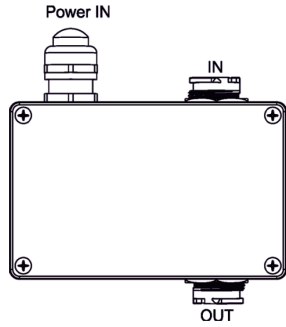
**CONNECTION - WIRELESS VERSION**

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

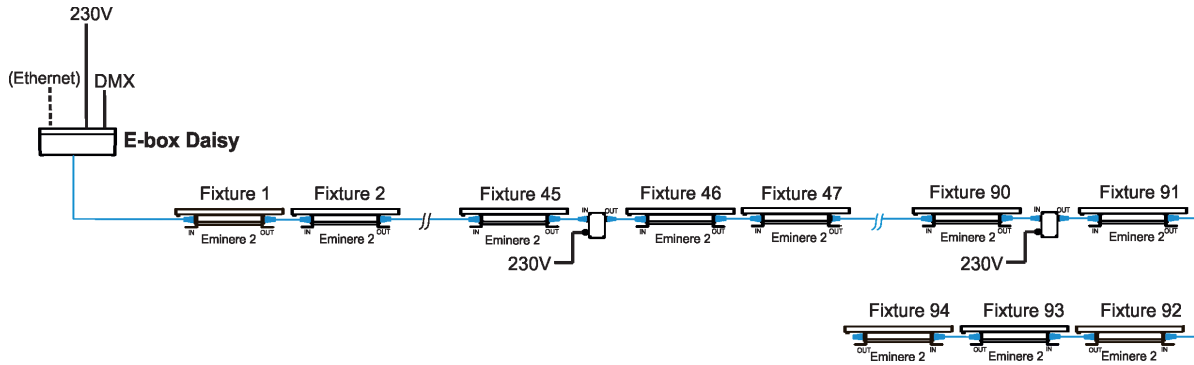


**THE BOOSTER BOX**

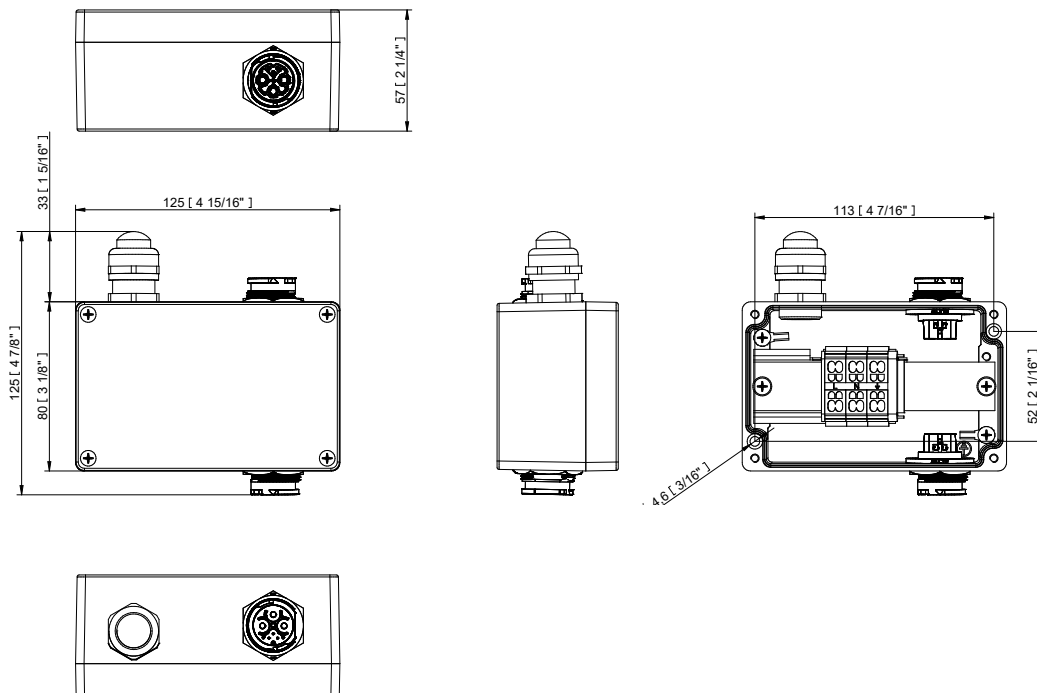
To compensate a voltage drop in a large installation, the Booster boxes have to be connected in the chain of Eminere modules.



Example: E-box Daisy, Power supply= 230V, Cable length=70m, fixture=Eminere 2.  
The Booster box has to be connected after every 45th Eminere 2 (fixture 45 and fixture 90) from 94 fixtures.



**DIMENSIONS**



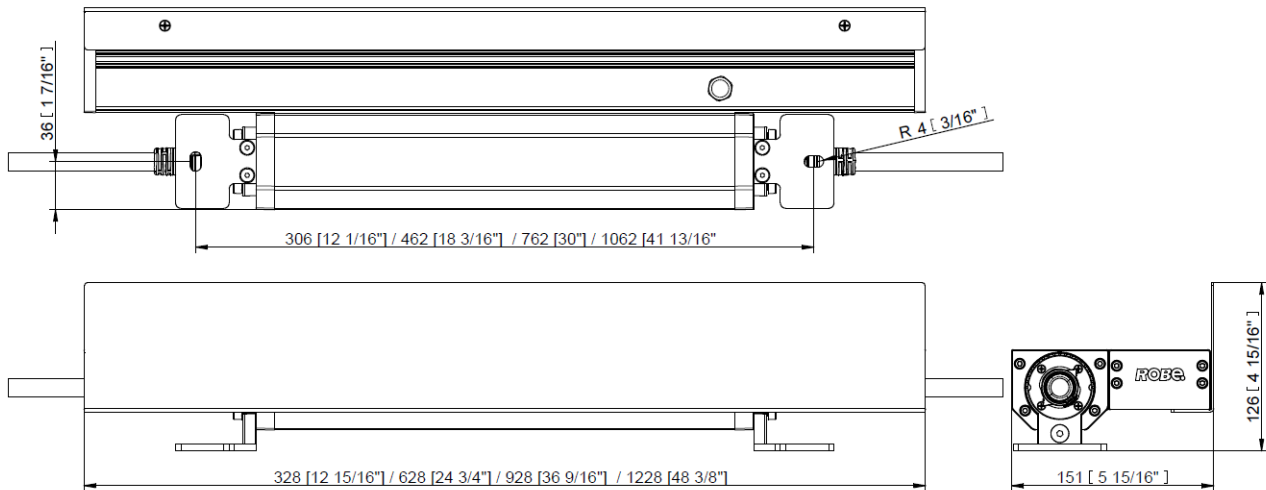
**BOOSTER BOX POSITIONS**

	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	83,166	131	159	-
	20 m	83,166	131	159	-
	30 m	58,116,174	131	159	-
	50 m	35,70,105,140,175	88,176	128	186
	70 m	25,50,75,100,125,150,175	63,126,189	92,184	133
	100 m	17,34,51,68,85,102,119,136,153,170,187	44,88,132,176	64,128	93,186
	200 m	9,18,27,36,45,54,60,72,81,90,99,108,117,126,135,144, 153,162,171,180,189,	22,44,66,88,110,132,154,176	32,64,96,128,	47,94,141,188

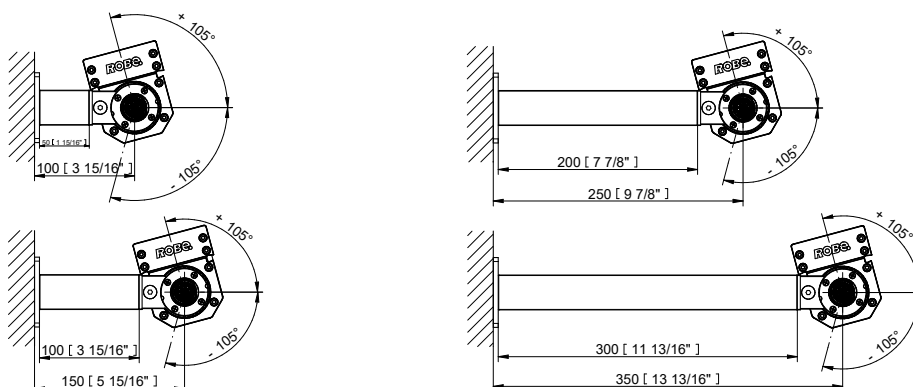
**NOTE:** For more detail see the User manual.

**ACCESSORIES**

Shield for Eminere side



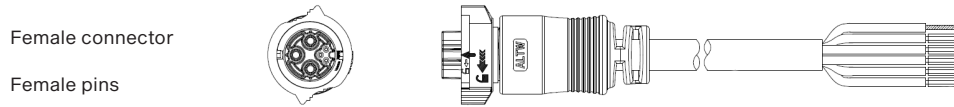
Mounting Brackets for Eminere Side



**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.



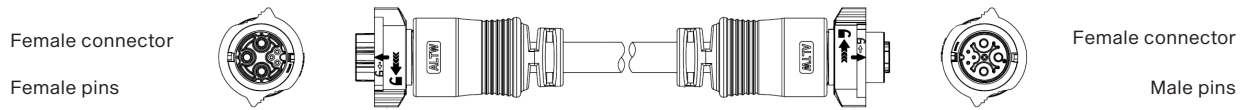
Female connector

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

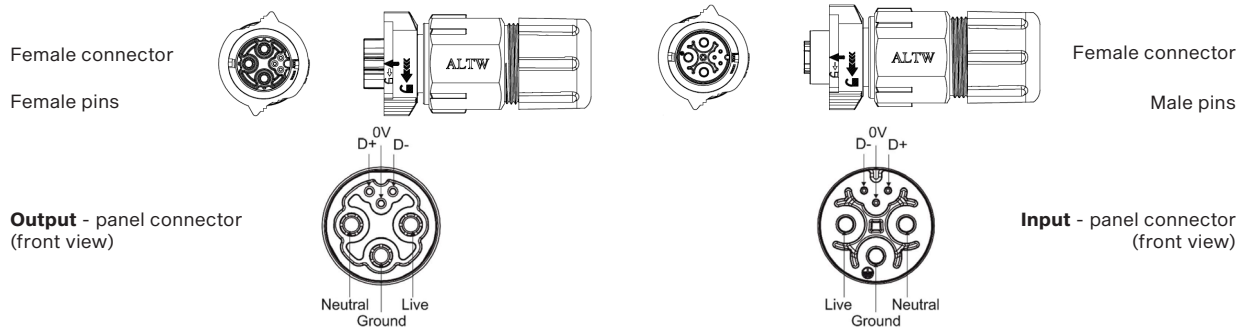
Female pins

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

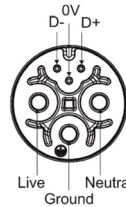
Female connector

Male pins

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

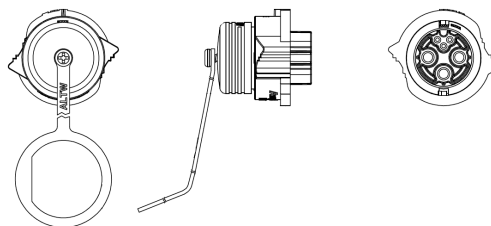


**Input** - panel connector  
(front view)



**Waterproof End Cap**

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



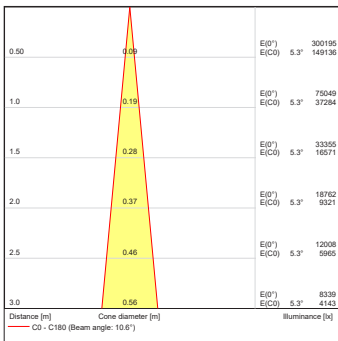
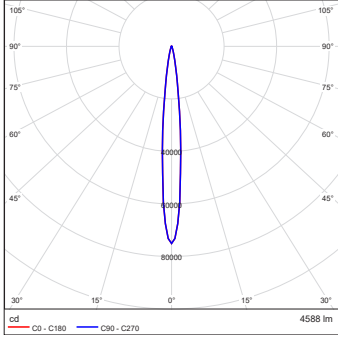
**Cable lengths available**

IN METRES	LEADER CABLE	JUMPER CABLE
0,25	-	YES
0,5	-	YES
1	-	YES
2	YES	YES
3	-	YES

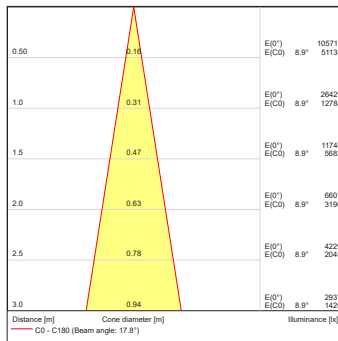
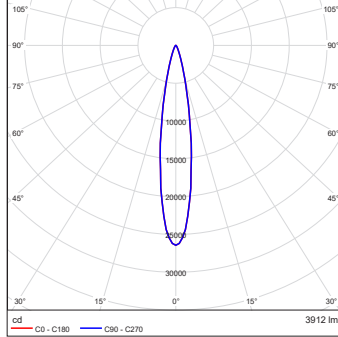
IN METRES	LEADER CABLE	JUMPER CABLE
5	YES	YES
10	YES	YES
25	YES	-
50	YES	-
<b>Other lengths</b>	On Request	

PHOTOMETRIC DATA

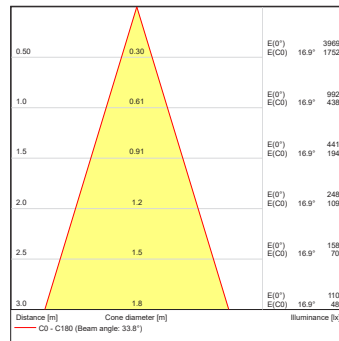
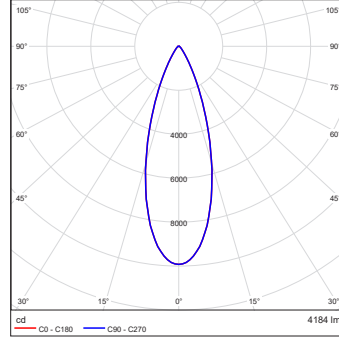
Eminere Side 4 RGBCW 9dg



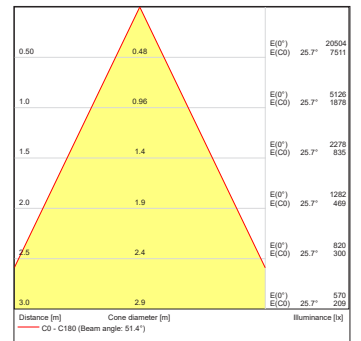
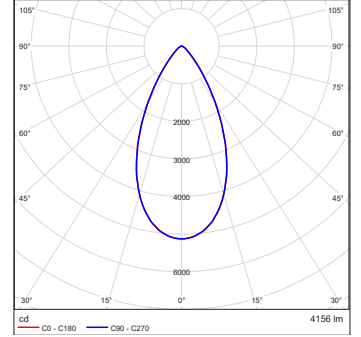
Eminere Side 4 RGBCW 15dg



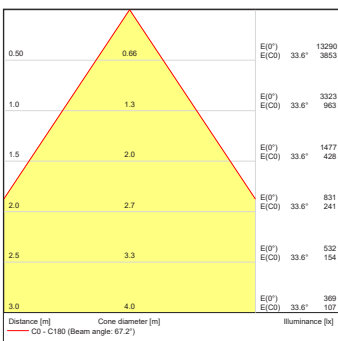
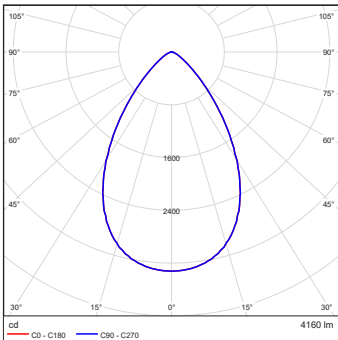
Eminere Side 4 RGBCW 30dg



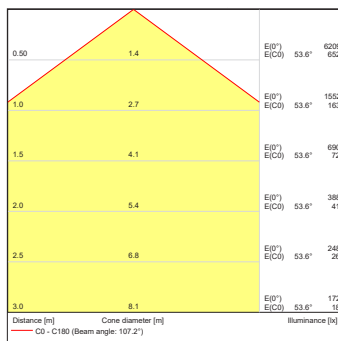
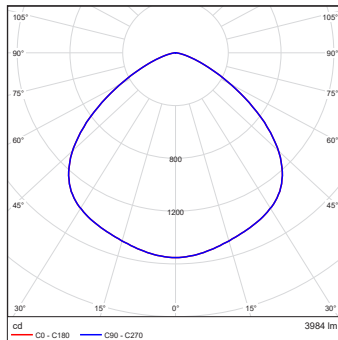
Eminere Side 4 RGBCW 50dg



Eminere Side 4 RGBCW 65dg

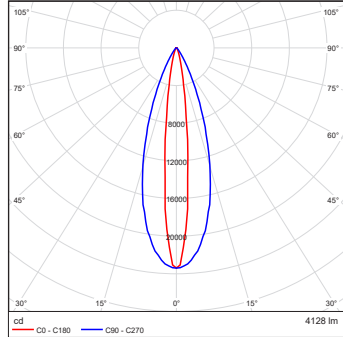


Eminere Side 4 RGBCW 100dg

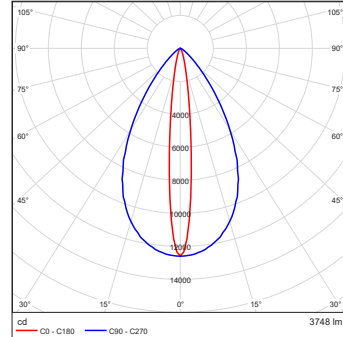


PHOTOMETRIC DATA

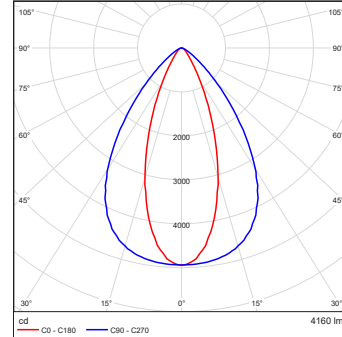
Eminere Side 4 RGBCW 10dg x 30 dg



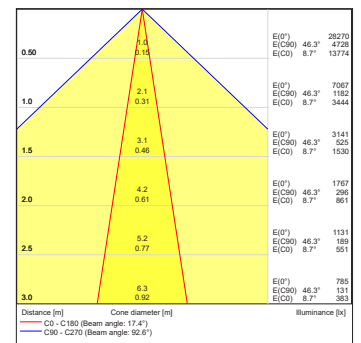
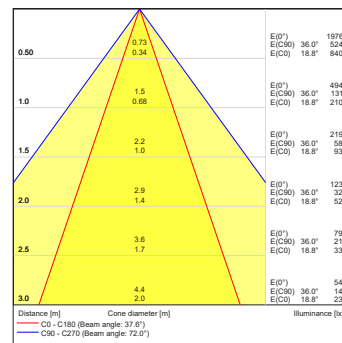
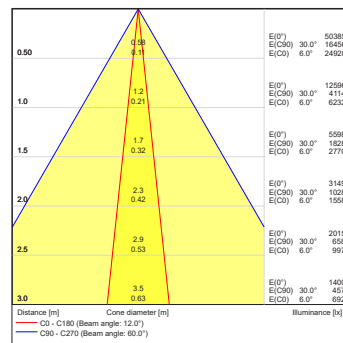
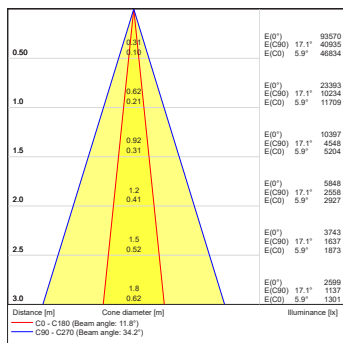
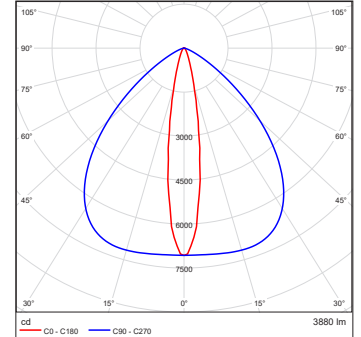
Eminere Side 4 RGBCW 10dg x 60 dg



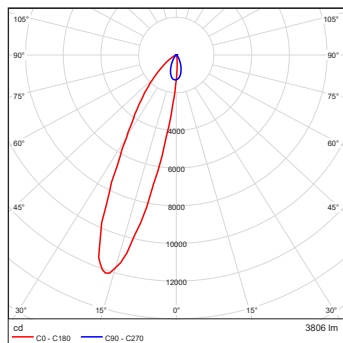
Eminere Side 4 RGBCW 35dg x 70dg



Eminere Side 4 RGBCW 15dg x 90dg



Eminere Side 4 RGBCW WallWasher



Eminere Side 4 RGBCW Wide WallWasher

