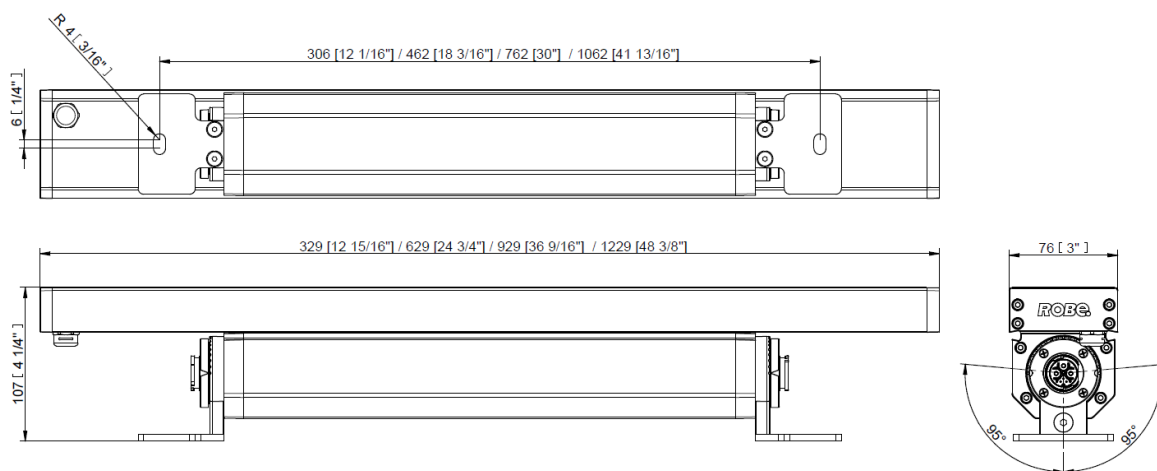


Eminere™

Client: _____ Specifier: _____

Project: _____ Type: _____ QTY: _____



Key features:

Application Flexibility Eminere's optics can be used for various applications including wall grazing, flood lighting, wall washing, wide flood lighting, spot lighting and accent lighting.

Quick and Easy Installation Plug&Play system means easy installation, fast adjustment and intuitive programming with self-addressing.

Naturally looking result Full spectrum coverage by using RGBW colour mixing with precise wave lengths of each colour for modern architecture or specifically designed combination of RGBA to highlight every single detail of historical buildings or monuments.

Durability Eminere is rated IP 67, suitable for wet locations and has a protection rating of IK06. Marine grade finish option also available for harsh environmental conditions.

Specification:

ELECTRICAL	Input Voltage	120 - 277 V AC 50/60 Hz
	Typical Power Consumption	Eminere 1: 25 W, Eminere 2: 45 W, Eminere 3: 65 W, Eminere 4: 85 W
OPTICAL	Light Source	12, 24, 36, 48 x High Power Single Chip LEDs
	Colour Variants	RGBW (W - 6500 K), RGBA, PW (W - 3000 K)
		Other Variants On Request (2500 K, 2700 K, 3000 K, 3500 K, 4000 K, 5000 K, 6500 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	Eminere 1: 1.147 lm, RGBW @ 9°
Eminere 2: 2.294 lm, RGBW @ 9°		
Eminere 3: 3.441 lm, RGBW @ 9°		
Eminere 4: 4.588 lm, RGBW @ 9°		
Projected Lumen Maintenance	60.000 hrs (L70 @ 25 °C / 77 °F)	
CONTROL	Interface Protocol	Via E-Box range
	Control System	E-box With Self Addressing Feature or Custom Setting Via LCD Display
	Wireless DMX (Option)	Lumen Radio CRMX Technology
	Operating Modes	Pixel (12 LEDs/300mm) or Fixture mode
	Settings / Addressing	Via Two Row LCD Display with Control Buttons or RDM communicator
	Power Supply	Integrated
	Connectivity	E-box Lite: 144 of Eminere 1 (@ 230 V and 40m cable) via 1 Output E-box Daisy: 144 of Eminere 1 (@ 230 V and 40m cable) via 1 Output E-box Star: 144 of Eminere 1 (@ 230 V and 40m cable) via 6 Outputs E-box PRO: 6 x 144 of Eminere 1 (@ 230 V and 40m cable) via 6 Outputs
PHYSICAL	Width x Height x Length	76 x 107 x 329 / 629 / 929 / 1229 mm (2.99 x 3.58 x 12.95 / 24.76 / 36.57 / 48.38 in.)
	Weight	2.5 kg / 5.5 lbs, 4.05 kg / 8.92 lbs, 6.1 kg / 13.44 lbs, 7.68 kg / 16.93 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)
	Connections	IP67 Hybrid Connection (Power + Data)
	Mounting Method	Surface Mount With Different Type of Brackets
	Adjustability	+/- 95°
	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)	
CERTIFICATION	Listings	ETL / cETL, CE, RoHS

ACCESSORIES	Mounting Brackets	Mounting Brackets 50 mm
		Mounting Brackets 100 mm
		Mounting Brackets 200 mm
		Mounting Brackets 300 mm
		Mounting Bracket- Custom length
	Cable Covers	Cable Cover For Eminere 1
		Cable Cover For Eminere 2
		Cable Cover For Eminere 3
		Cable Cover For Eminere 4
	Shields	Shield For Eminere 1
		Shield For Eminere 2
		Shield For Eminere 3
		Shield For Eminere 4
	Optical Demo Set	Optical Demo Set For Eminere 1
		Optical Demo Set For Eminere 2
		Optical Demo Set For Eminere 3
		Optical Demo Set For Eminere 4
	Cables and Connectors	Field Installable Connector FF
		Field Installable Connector FM
		Cable CE WCA
		Cable US WCA
		Waterproof Cover Cap FM ZAHB-0006
		CE/UL Leader Cables FF for Eminere:
		Leader Cable FF 2m
		Leader Cable FF 5m
		Leader Cable FF 10m
		Leader Cable FF 25m
		Leader Cable FF 50m
		CE/UL Jumper Cables FF/FM for Eminere:
		Jumper Cable FF/FM 0,25m
		Jumper Cable FF/FM 0,5m
Jumper Cable FF/FM 1m		
Jumper Cable FF/FM 2m		
Jumper Cable FF/FM 3m		
Jumper Cable FF/FM 5m		
Jumper Cable FF/FM 10m		
Booster Box		Booster Box

E-Box Specification:

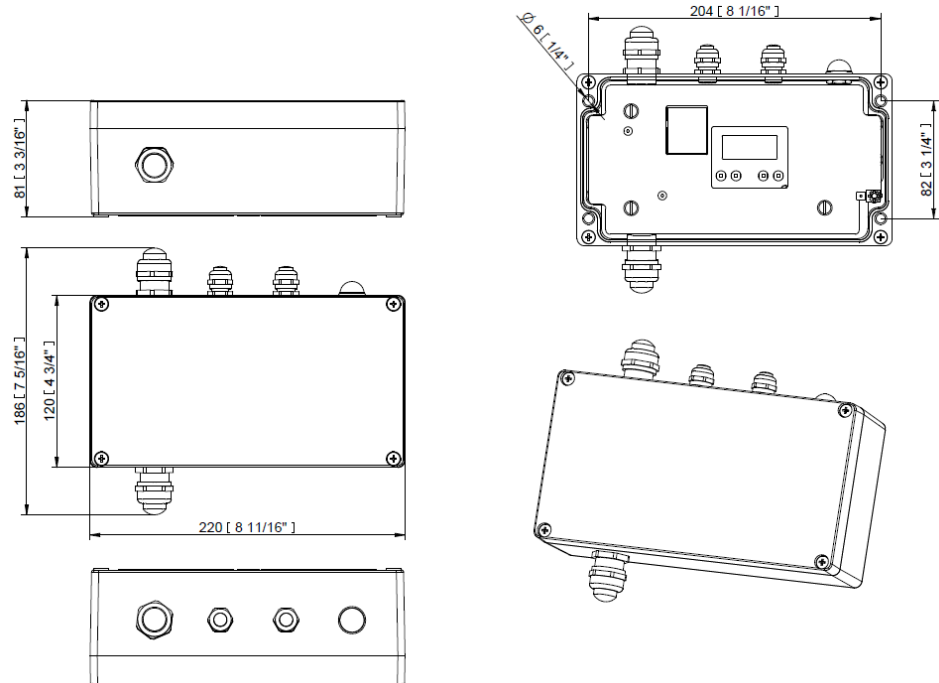
ELECTRICAL	Input Voltage	120 - 277 V AC 50/60 Hz
	Wireless DMX (Option)	Lumen Radio CRMX Technology
CONTROL	Interface Protocol	E-box Lite: USITT DMX512, RDM, Kling-Net
		E-box Daisy: USITT DMX512, RDM, ArtNet, MA Net, MA Net2, sACN, Kling-Net
		E-box Star: USITT DMX512, RDM, ArtNet, MA Net, MA Net2, sACN, Kling-Net
		E-box PRO: USITT DMX512, RDM, ArtNet, MA Net, MA Net2, sACN, Kling-Net
	Operating Modes	Pixel (12 LEDs) or Fixture mode
	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	E-box Lite: 144 of Eminere 1 (@ 230 V and 40m cable) via 1 Output	
	E-box Daisy: 144 of Eminere 1 (@ 230 V and 40m cable) via 1 Output	
	E-box Star: 144 of Eminere 1 (@ 230 V and 40m cable) via 6 Outputs	
	E-box PRO: 6 x 144 of Eminere 1 (@ 230 V and 40m cable) via 6 Outputs	
PHYSICAL	Width x Height x Length	E-box Lite: 220 x 120 x 81 mm (8.66 x 4.72 x 3.18 in.)
		E-box Daisy: 260 x 160 x 91 mm (10.24 x 6.30 x 3.58 in.)
		E-box Star: 280 x 230 x 111 mm (11.02 x 9.06 x 4.37 in.)
		E-box PRO: 280 x 230 x 111 mm (11.02 x 9.06 x 4.37 in.)
	Weight	1.75 kg / 3.85 lbs, 2.71 kg / 5.97 lbs, 2.85 kg / 6.28 lbs, 3 kg / 6.61 lbs
	Housing	Die-Cast Aluminium Case
	Finish Options	Standard Colour - Graphite Black (RAL 9011)
		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)	
CERTIFICATION	Listings	ETL / cETL (pending), CE, RoHS

Comparison

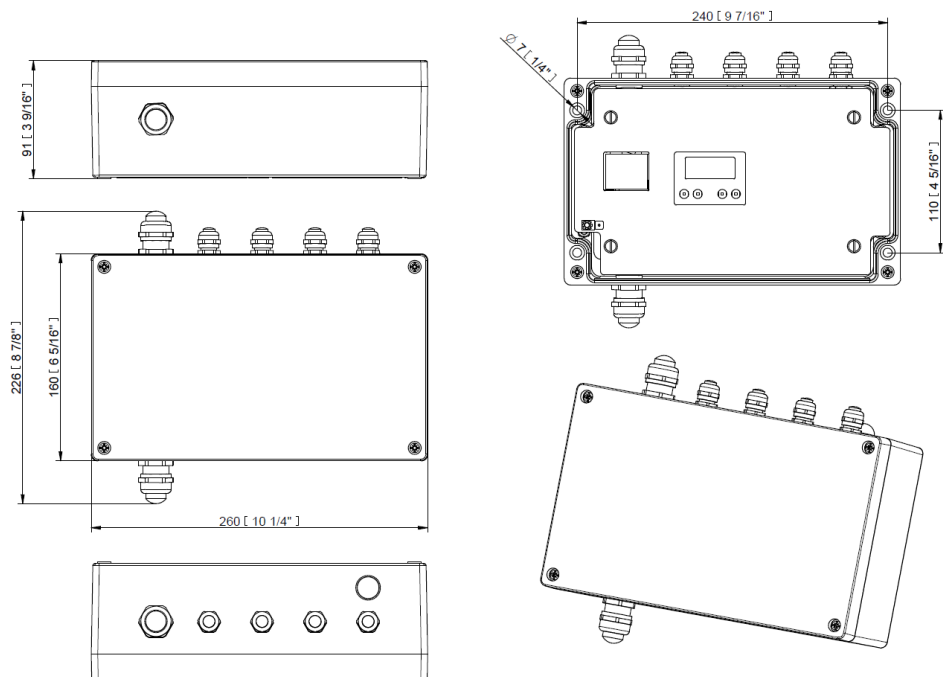
	E-Box Lite	E-Box Daisy	E-Box Star	E-Box PRO
Power input	1	1	1	6
Fixture Output	1	1	6	6
Total load (current)	16A	16A	16A	6 x 16A
DMX control	YES	YES	YES	YES
RDM	YES	YES	YES	YES
Art-Net	NO	YES	YES	YES
Ethernet switch	NO	YES	YES	YES
Kling-Net	NO	YES	YES	YES
sACN	NO	YES	YES	YES
MA Net, MA Net2	NO	YES	YES	YES

E-Box Dimensions:

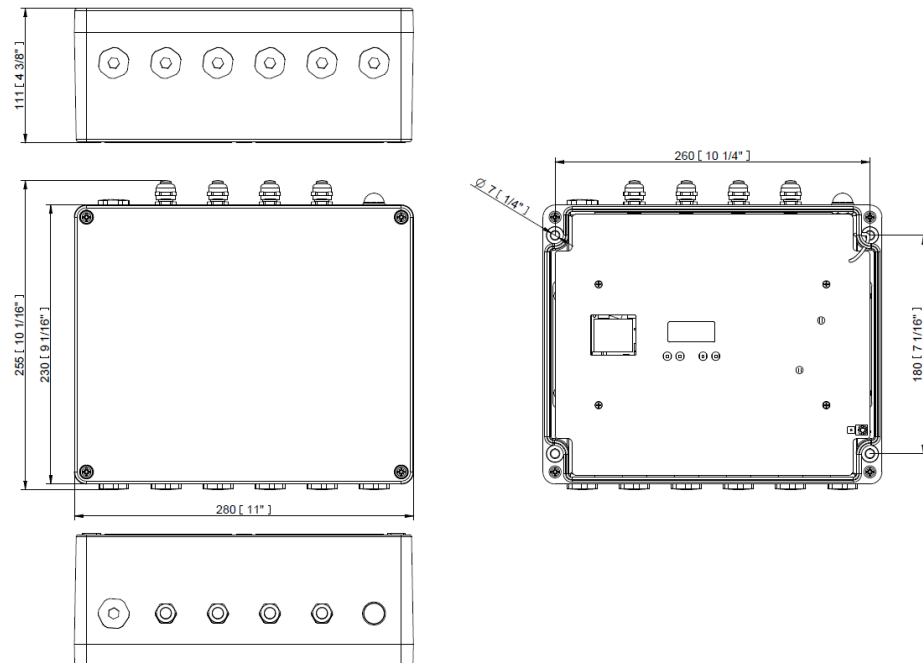
E-Box Lite



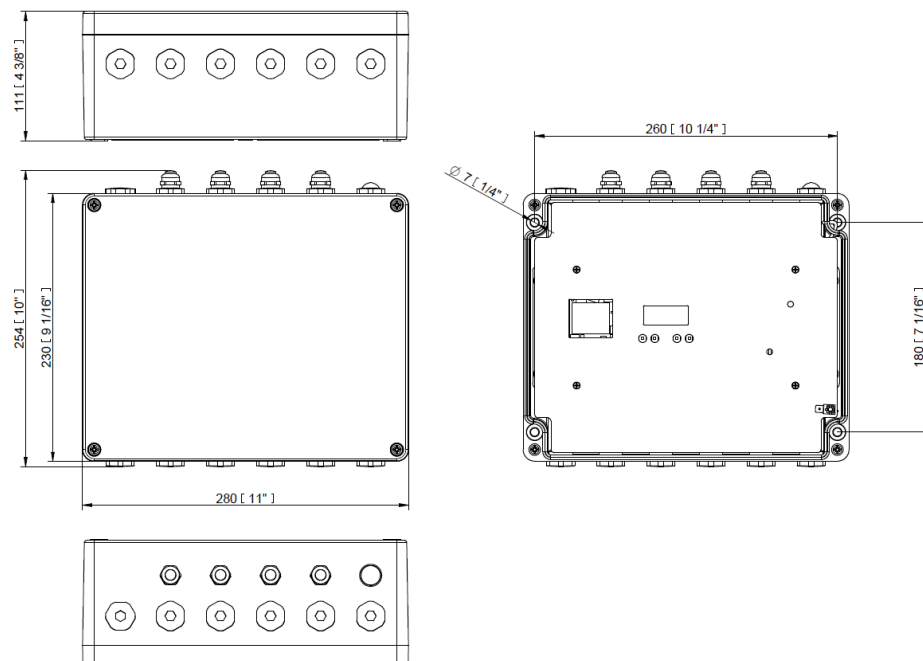
E-Box Daisy



E-Box Star

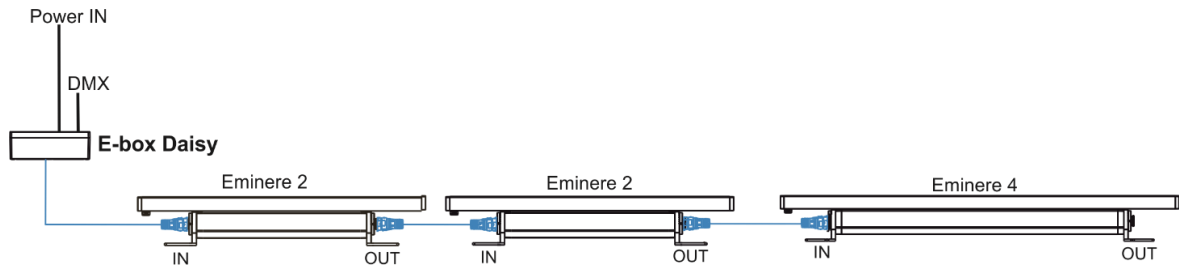


E-Box PRO

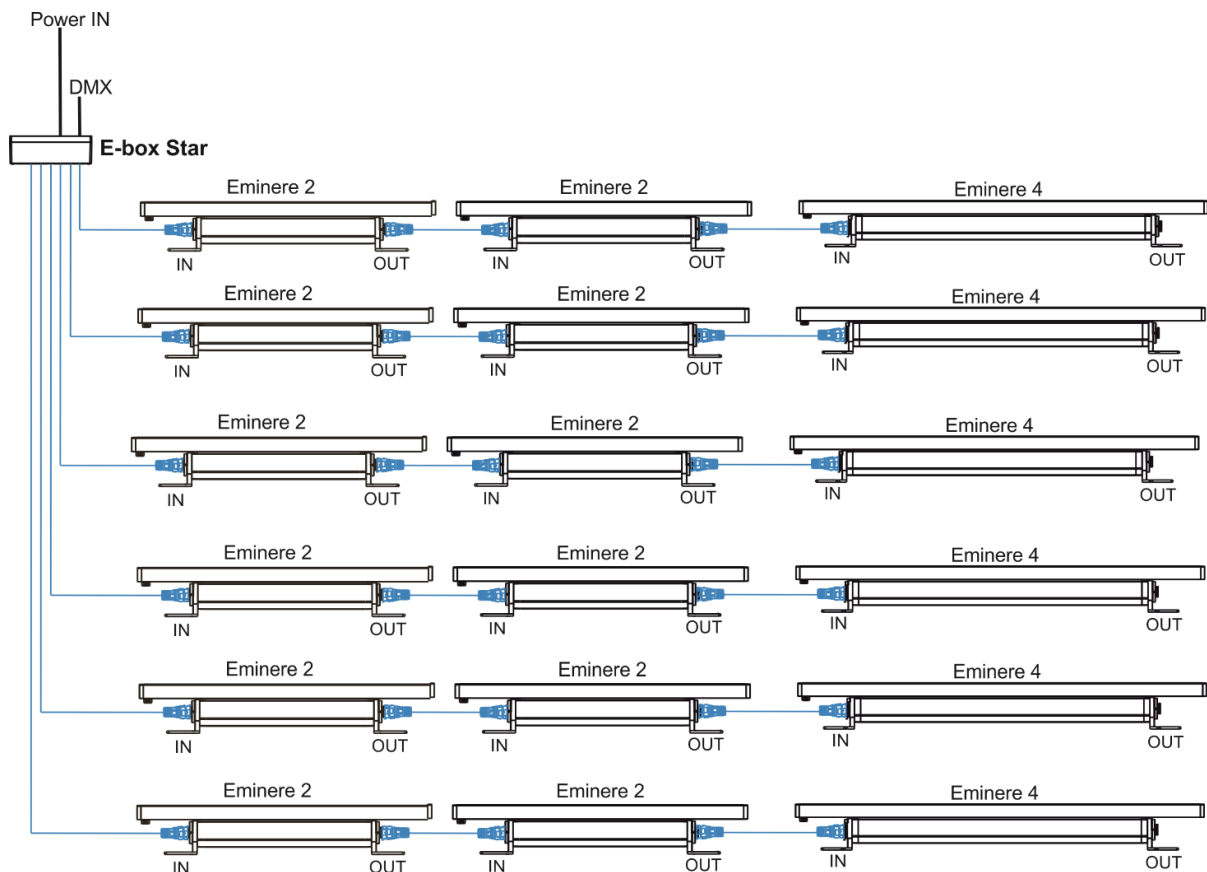


Connection:

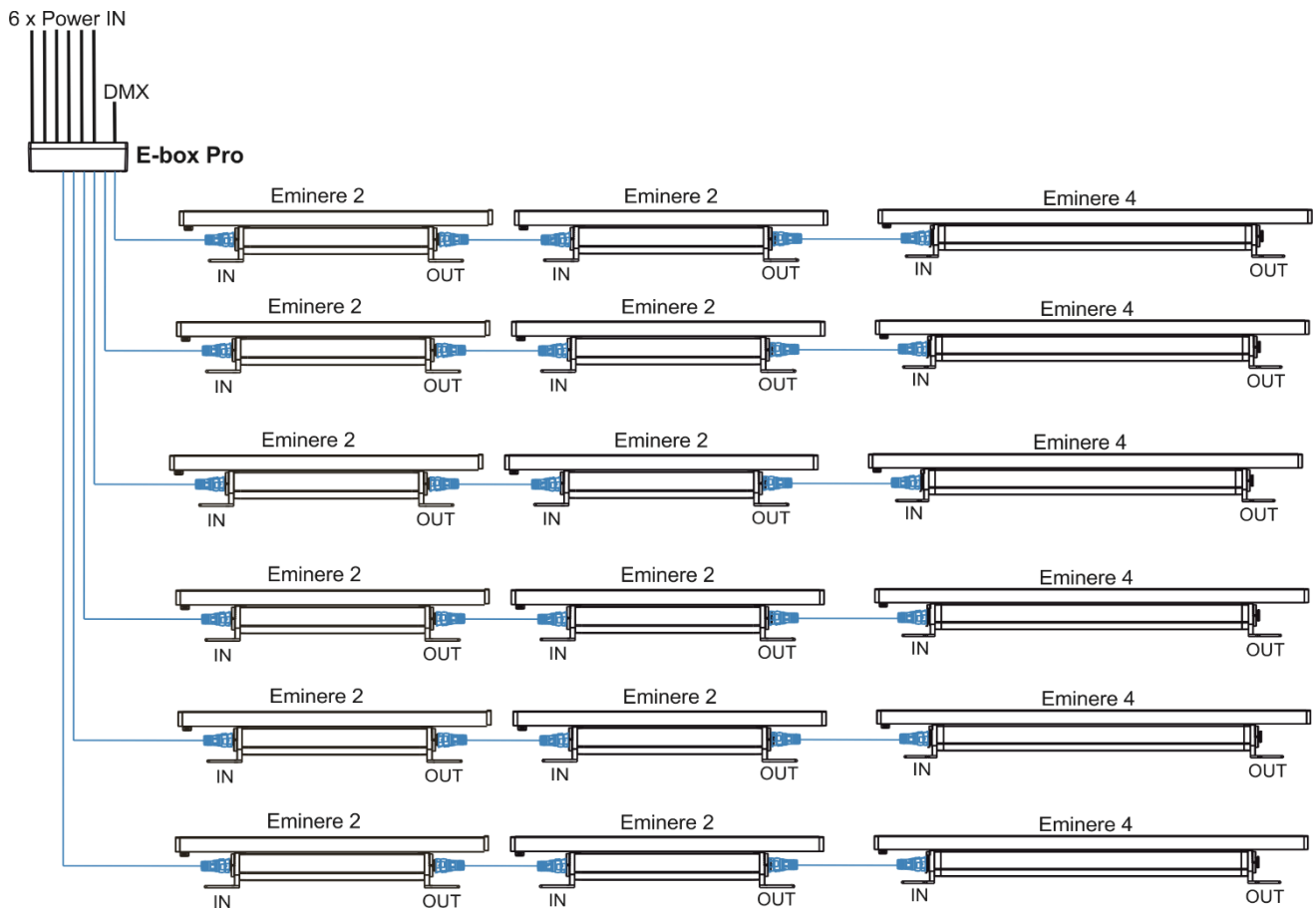
E-Box Lite / Daisy



E-Box Star



E-Box PRO



Connectivity:

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

	Cable length (m)	Voltage (V)				
		100	120	190	230	277
Eminere 1	10	69	83	131	159	191
	20	61	83	131	159	191
	30	40	58	131	159	191
	50	24	35	88	128	186
	70	17	25	63	92	133
	100	12	17	44	64	93
	200	6	9	22	32	47

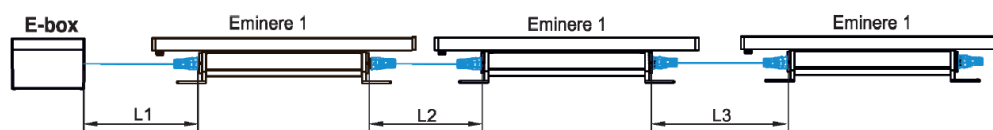
	Cable length (m)	Voltage (V)				
		100	120	190	230	277
Eminere 2	10	34	41	64	78	94
	20	30	41	64	78	94
	30	20	28	64	78	94
	50	12	17	43	63	91
	70	8	12	31	45	65
	100	6	9	21	31	46
	200	3	4	11	16	23

	Cable length (m)	Voltage (V)				
		100	120	190	230	277
Eminere 3	10	23	28	44	53	64
	20	20	28	44	53	64
	30	13	19	44	53	64
	50	8	12	29	43	62
	70	6	8	21	31	44
	100	4	6	15	21	31
	200	2	3	7	11	16

	Cable length (m)	Voltage (V)				
		100	120	190	230	277
Eminere 4	10	17	21	33	40	48
	20	15	21	33	40	48
	30	10	15	33	40	48
	50	6	9	22	32	47
	70	4	6	16	23	38
	100	3	4	11	16	23
	200	2	2	5	8	12

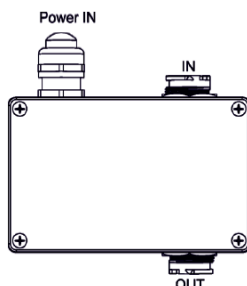
*Cable length is a total cable length between E-box and last connected Eminere

Example: Total cable length=L1+L2+L3



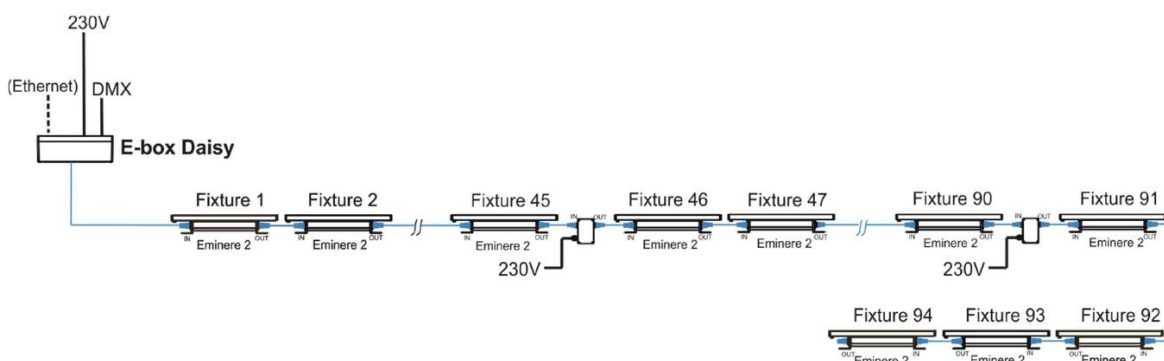
The Booster Box

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

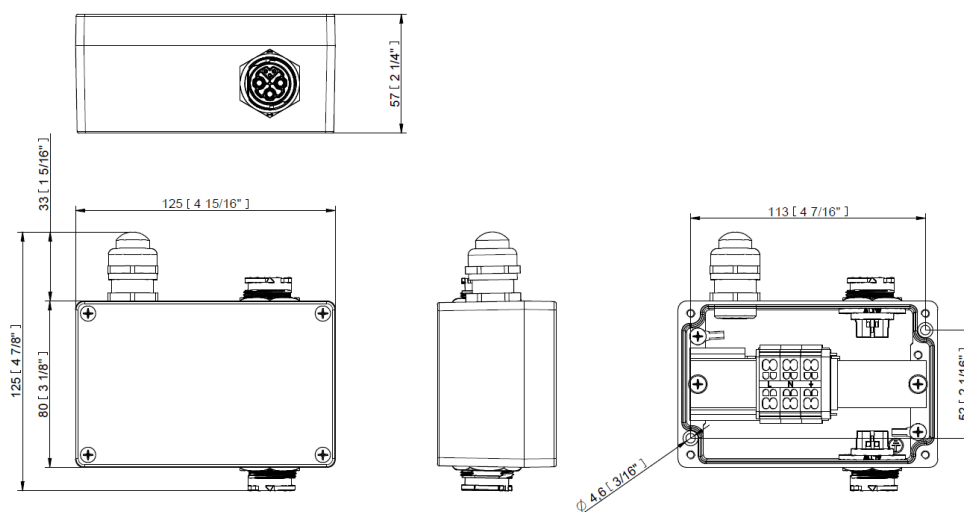


Example: E-box Daisy, Power supply= 230V, Cable length=70m, fixture=Eminere 2.

The Booster box has to be connected after every 45th Eminere 2 (fixture 45 and fixture 90) from 94 fixtures.

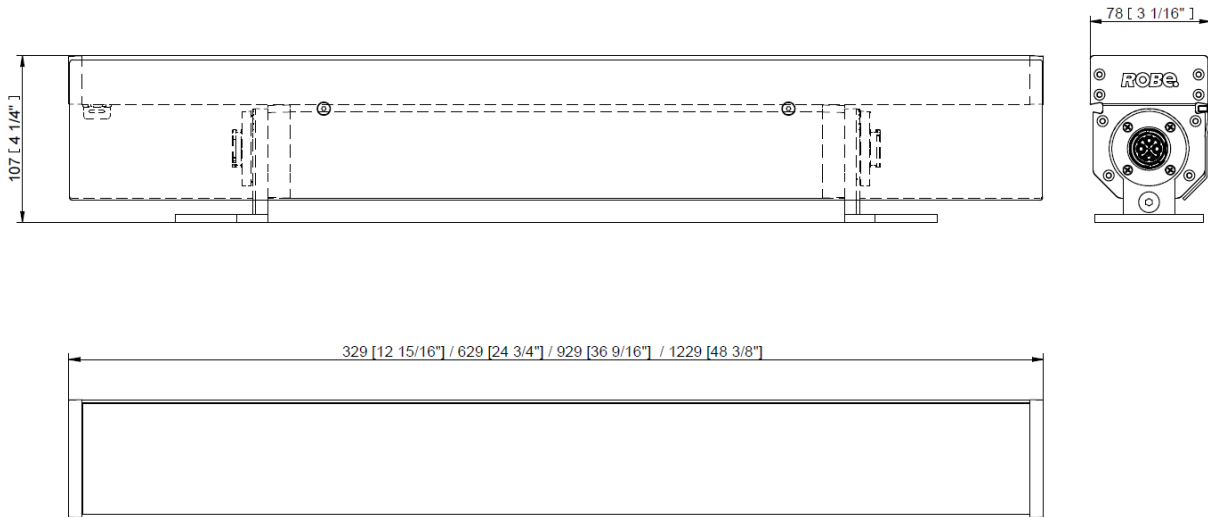


Dimensions

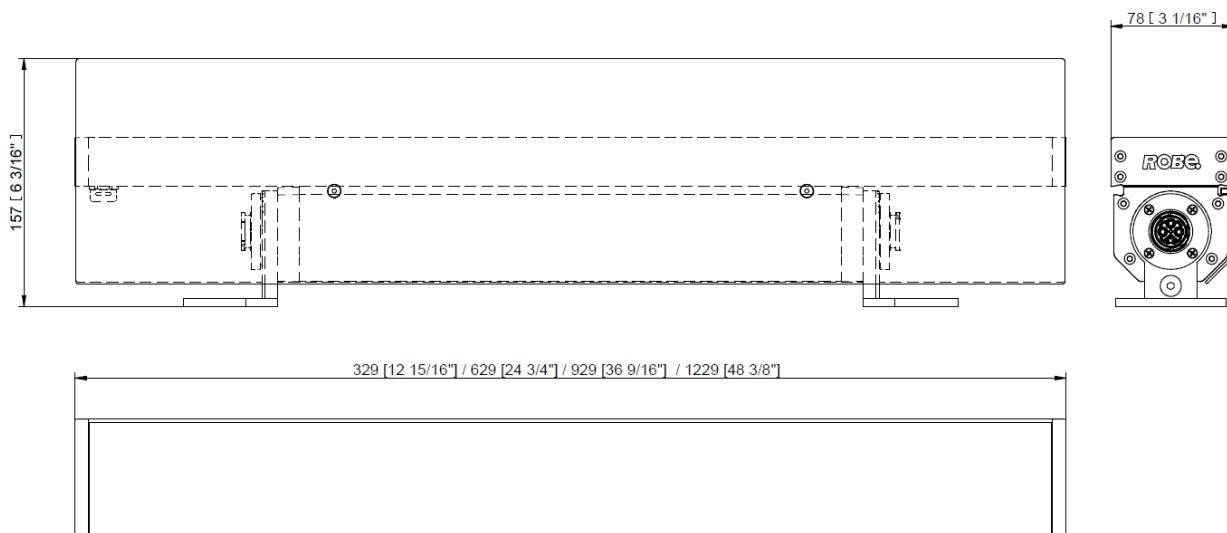


Accessories:

Cable Cover for Eminere

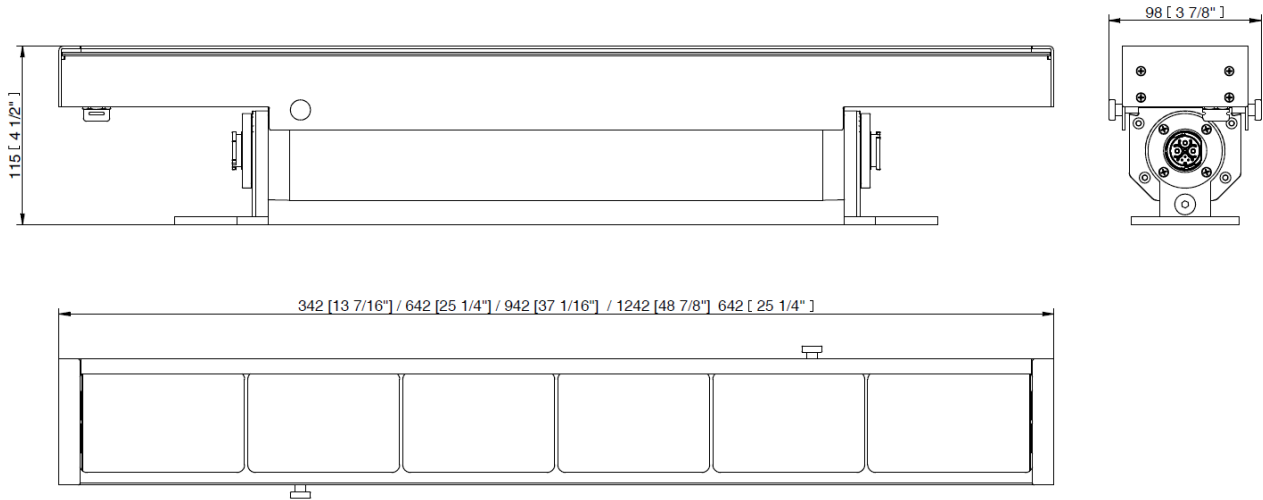


Shield for Eminere

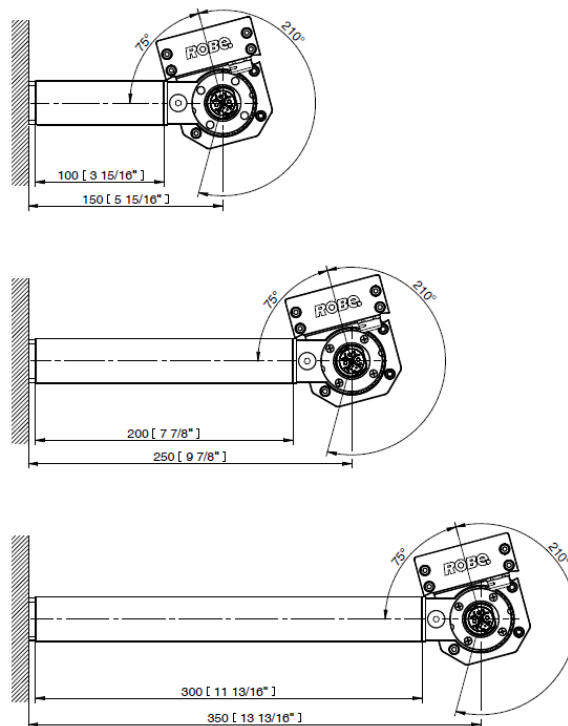


Accessories:

Optical Demo Set



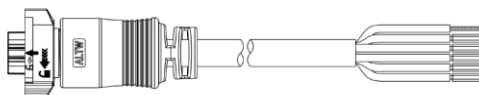
Mounting brackets



Cables:

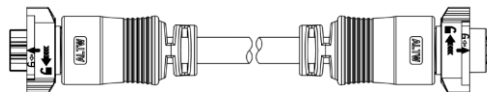
Leader Cable - for connecting E-Box with first Eminere. Comes with End cap which has to be installed to the last Eminere's output connector.

Female connector
Female pins



Jumper Cable- for connection between two Emineres.

Female connector
Female pins



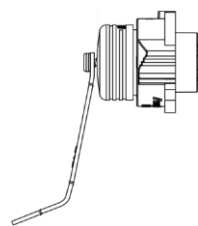
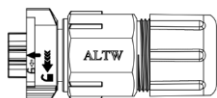
Female connector
Male pins



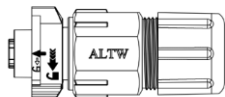
Field installable connector- for special cases, where Jumper Cable can't be used. Then use Leader Cable with Field installable connector to make a connection between Emineres.

Waterproof End Cap- Install at the end of line to the last Emineres output connector

Female connector
Female pins



Female connector
Male pins



Cable lengths available:

(in metres)	Leader Cable	Jumper Cable
0,25	-	YES
0,5	-	YES
1	-	YES
2	YES	YES
3	-	YES
5	YES	YES
10	YES	YES
25	YES	-
50	YES	-

Photometric overview:

	Lumen Output (lm)			
	Eminere 1	Eminere 2	Eminere 3	Eminere 4
9°	1 147	2 294	3 441	4 588
15°	978	1 956	2 910	3 912
30°	1 046	2 092	3 138	4 184
50°	1 039	2 078	3 117	4 156
65°	1 040	2 080	3 120	4 160
100°	996	1 992	2 988	3 984
10° x 30°	1 032	2 064	3 096	4 128
10° x 60°	1 051	1 874	2 811	3 748
15° x 90°	970	1 940	2 934	3 880
35° x 70°	1 040	2 080	3 120	4 160
WallWasher	952	1 904	2 856	3 806

*All RGBW leds @ full