

## Allegro Linear AC RGBW



The Allegro Linear AC RGBW family is a slim-profile, AC-line powered high-brightness luminaire. The family is controllable via DMX512, and is available in 1ft and 4ft lengths, with 16.7 million additive RGB colors plus white, and various optics. The simplicity of the luminaire's topology means it can be easily daisy-chained to form long runs. Remote Device Management (RDM) circuits are built into each luminaire that enables extensive control and monitoring of the entire lighting installation.

### Product Specifications



	300	1200
<b>Light Source</b>	High power LEDs	
<b>Color Range</b>	RGBW (white CCT 3000K)	
<b>Beam Angle</b>	10°, 40°, 60° × 10°, 60° × 30°	
<b>Luminous Flux</b>	778 lm	3132 lm
<b>Efficacy</b>	52 lm/W typ.	
<b>Lumen Maintenance</b>	L70 @25°C - 80,000hrs	
<b>Cover Lens</b>	Tempered glass cover	
<b>Housing</b>	Aluminium, powder coating	
<b>Adjustment Options</b>	±90 tilt	
<b>Dimensions (L × W × H)</b>	320 × 50 × 86mm 12.6" × 2.0" × 3.4"	1215 × 50 × 86mm 47.8" × 2.0" × 3.4"
<b>Weight</b>	2.0kg/4.4lb	5.5kg/12.1lb
<b>Regulatory Listing &amp; Safety Approval</b>	cETLus, IEC 60598-2-3, 3G ANSI C136.31, IK07	
<b>Operating Temperature</b>	-30°C to +50°C / -22°F to +122°F (-20°C / -4°F starting)	
<b>Storage Temperature</b>	-40°C to +70°C / -40°F to +158°F	
<b>Environment</b>	Outdoor (IP66), suitable for coastal environments	
<b>Humidity</b>	85%, non-condensing	

### Electrical Specifications

<b>Input Voltage</b>	120V - 277V AC nominal	
<b>Power Consumption</b>	15W	55W
<b>Power Factor</b>	≥ 0.9	

### System Specifications

<b>Power</b>	AC line
<b>Control</b>	DMX512; Remote Device Management (RDM) DynaMood®; BinOne · BoostOne · AddressOne
<b>Power Supply</b>	Built-in
<b>Fixture Interconnection</b>	Refer to System Diagram

**LED CHARACTERISTICS** Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers "sort" LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process results always in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

As with all electronic devices, LED output degrades over time – a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicate function of many factors such as operating efficiency, duration of continuous operation, and more significantly, environmental conditions (ambient temperature for example). If allowed working under optimal operating temperature range and with good ventilation, LED devices enjoy long service lives over conventional light sources. When using/installing LED devices, care should be taken to ensure that the devices will operate within the operating conditions specified in respective product literature.

Lumen measurement complies with LM-79-08 standard.  
 Lumen maintenance is calculated based on LM-80 compliant measurement.

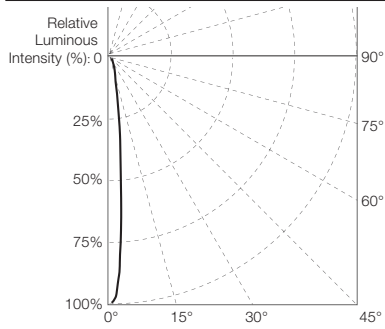
[www.traxontechnologies.com](http://www.traxontechnologies.com)

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### Source Specifications

Optics 10°

### Candela Distribution



### Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
<b>300</b>			
White 4000K (RGBW full-on)	812.99	14819.3	58.73
RGB	534.02	9734.2	51.59
Red	148.07	2699.04	28.35
Green	383.84	6996.7	57.07
Blue	5.63	102.625	1.7
White 3000K (RGB off)	279.03	5086.2	46.64
<b>1200</b>			
White 4000K (RGBW full-on)	3274.53	59688.6	68.28
RGB	2150.9	39206.9	64.34
Red	596.4	10871.3	42.91
Green	1546	28180.7	79.16
Blue	22.68	413.415	3.9
White 3000K (RGB off)	1123.86	20485.9	65.45

Luminaire setting: White-balance mode.

### Illuminance at a Distance

	Center beam Lux/klm	Beam width (m) H
1m	18228	0.15m
2m	4557	0.30m
3m	2025	0.45m
4m	1139	0.60m
5m	729	0.75m

● Horiz. Spread: 8.6°

For fc divide by 10.7

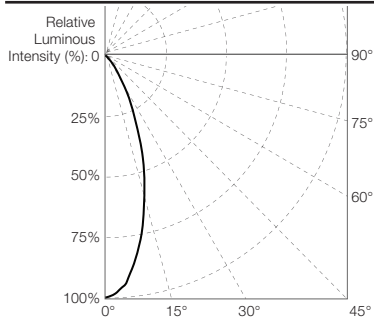
For feet multiply by 3.28

IES and LDT files are available for download from the Traxon website.

### Source Specifications

Optics 40°

### Candela Distribution



### Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
<b>300</b>			
White 4000K (RGBW full-on)	857.1	1654.26	61.81
RGB	559.97	1080.78	53.89
Red	155.3	299.74	29.51
Green	402.39	776.643	59.42
Blue	5.79	11.1712	1.75
White 3000K (RGB off)	295.65	570.621	49.32
<b>1200</b>			
White 4000K (RGBW full-on)	3501.18	6757.51	73.6
RGB	2287.43	4414.89	68.98
Red	634.39	1224.42	46.04
Green	1643.73	3172.52	84.86
Blue	23.64	45.6109	4.09
White 3000K (RGB off)	1207.7	2330.93	70.92

Luminaire setting: White-balance mode.

### Illuminance at a Distance

	Center beam Lux/klm	Beam width (m) H
1m	1930	0.67m
2m	483	1.35m
3m	214	2.02m
4m	121	2.69m
5m	77	3.37m

● Horiz. Spread: 37.2°

For fc divide by 10.7

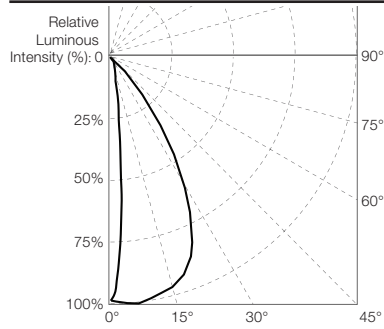
For feet multiply by 3.28

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### Source Specifications

Optics 60° x 10°

### Candela Distribution

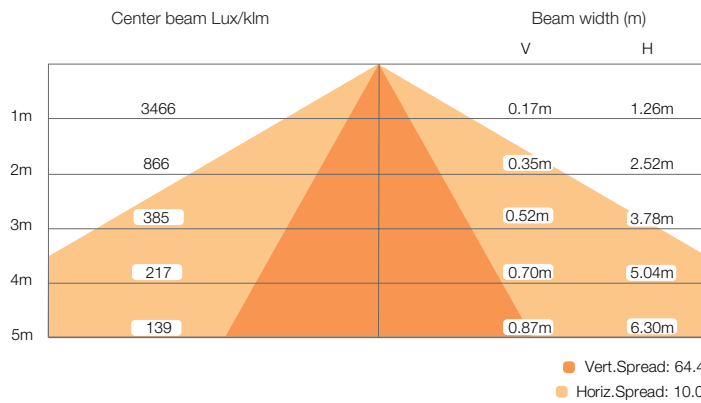


### Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
<b>300</b>			
White 4000K (RGBW full-on)	777.82	2495.9	56.34
RGB	506.64	1625.72	48.96
Red	140.97	452.361	26.96
Green	363.89	1167.67	54.01
Blue	4.97	15.9547	1.51
White 3000K (RGB off)	264.75	849.541	44.38
<b>1200</b>			
White 4000K (RGBW full-on)	3132.34	10051.2	65.86
RGB	2040.26	6546.84	61.55
Red	567.71	1821.73	41.2
Green	1465.42	4702.32	75.65
Blue	20.02	64.2682	3.47
White 3000K (RGB off)	1066.17	3421.17	62.64

Luminaire setting: White-balance mode.

### Illuminance at a Distance



For fc divide by 10.7

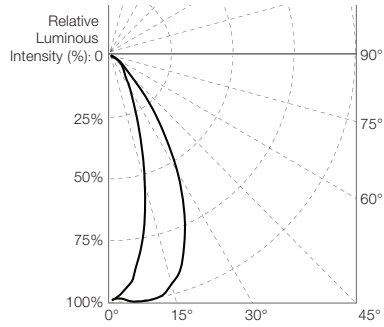
For feet multiply by 3.28

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### Source Specifications

Optics 60° x 30°

### Candela Distribution

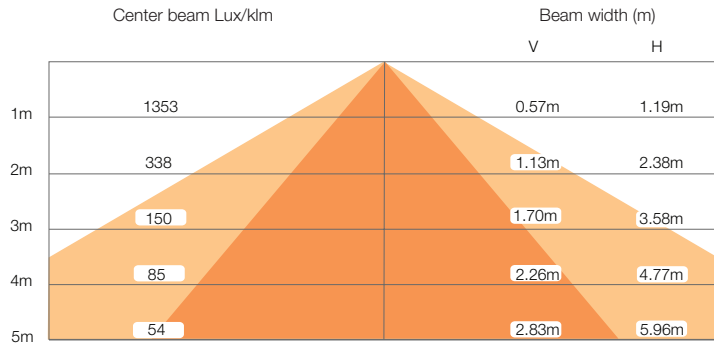


### Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
<b>300</b>			
White 4000K (RGBW full-on)	724.83	980.679	52.48
RGB	472.22	638.91	45.64
Red	131.97	178.549	25.23
Green	338.56	458.068	50.25
Blue	4.82	6.51762	1.46
White 3000K (RGB off)	253.25	342.637	42.43
<b>1200</b>			
White 4000K (RGBW full-on)	2956.23	3999.71	62.09
RGB	1925.98	2605.84	58.05
Red	538.23	728.199	39.03
Green	1380.83	1868.25	71.21
Blue	19.65	26.5708	3.4
White 3000K (RGB off)	1032.87	1397.43	60.61

Luminaire setting: White-balance mode.

### Illuminance at a Distance

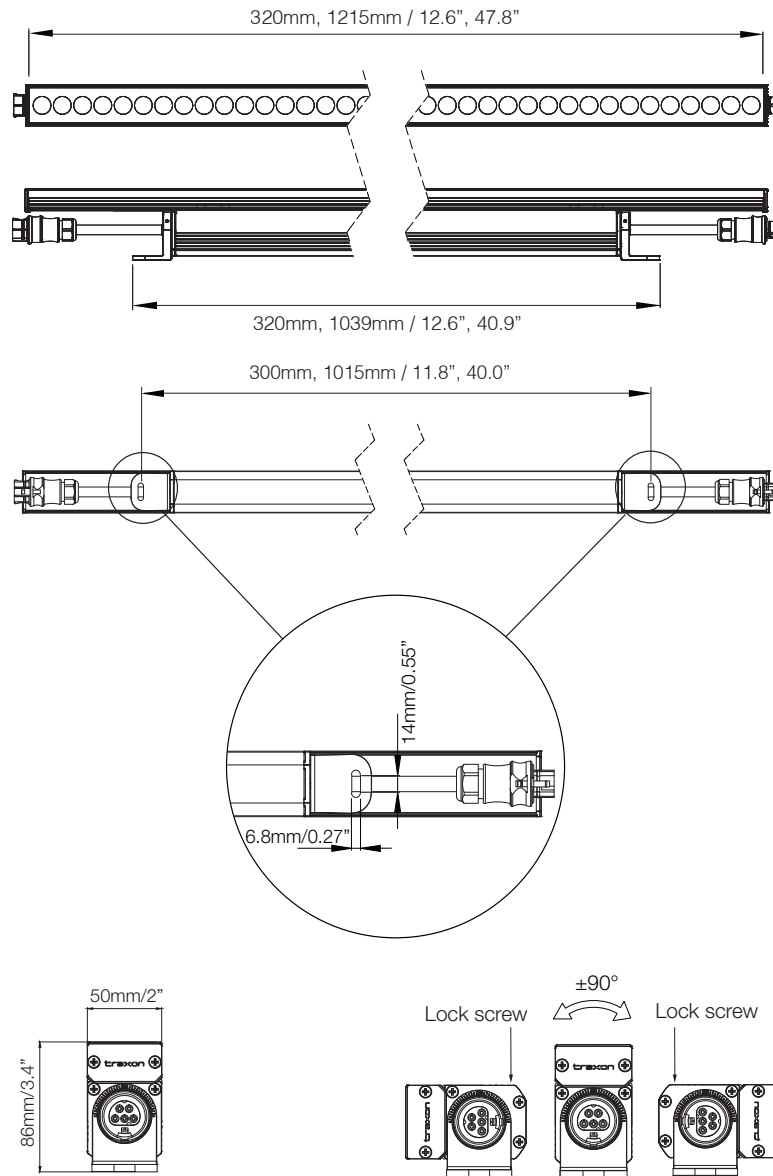


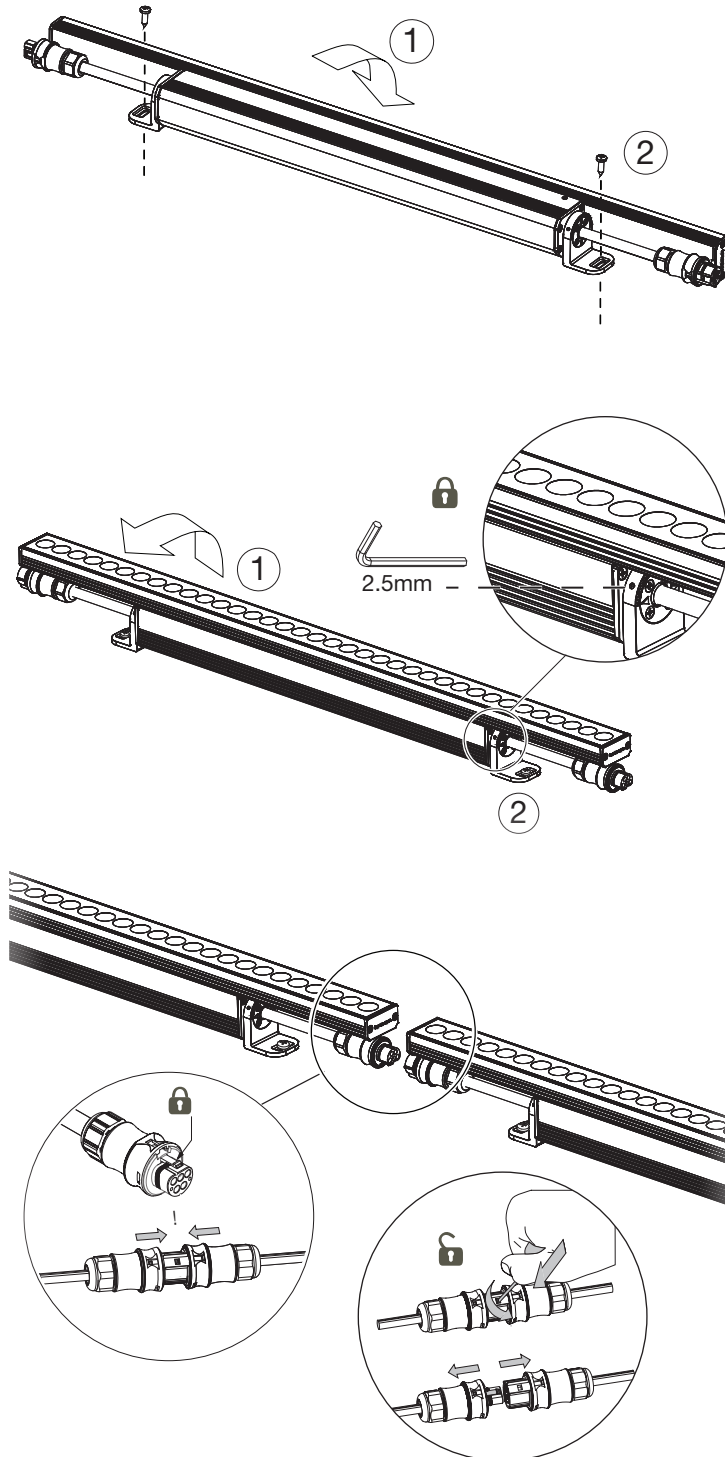
- Vert. Spread: 61.6°
- Horiz. Spread: 31.6°

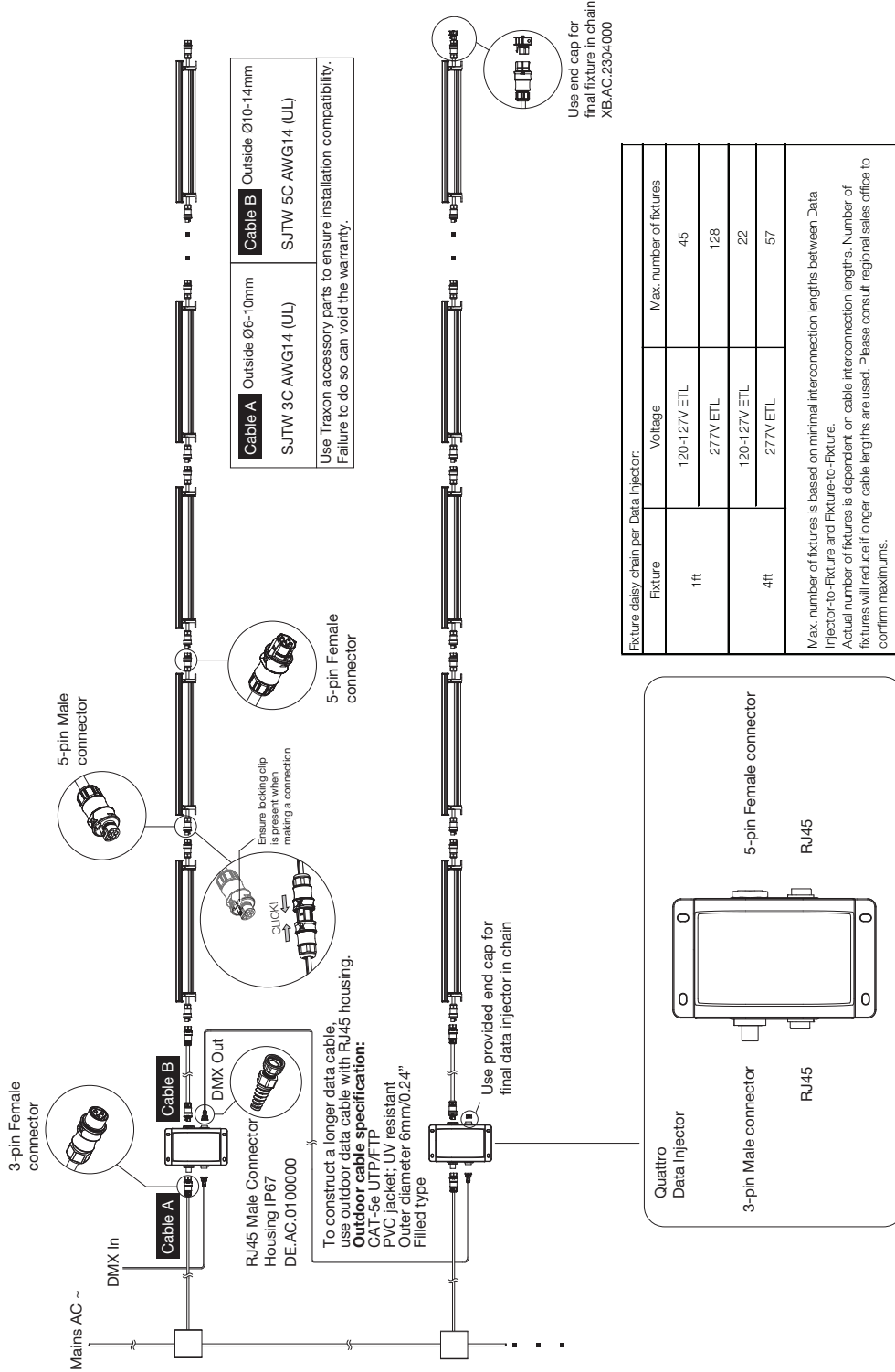
For fc divide by 10.7

For feet multiply by 3.28

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## Allegro Linear AC RGBW

Ordering

### Luminaire Models

Model No.	Description	Item Code
XB.N4.8301110	ALLEGRO LINEAR AC 1ft RGBW 10deg ETL 120/277V AC	AM322790055
XB.N4.8304110	ALLEGRO LINEAR AC 1ft RGBW 60X10deg ETL 120/277V AC	AM322090155
XB.N4.8307110	ALLEGRO LINEAR AC 1ft RGBW 60X30deg ETL 120/277V AC	AM322690055
XB.N4.8306110	ALLEGRO LINEAR AC 1ft RGBW 40deg ETL 120/277V AC	AM322880055
XB.N7.8301110	ALLEGRO LINEAR AC 4ft RGBW 10deg ETL 120/277V AC	AM322820055
XB.N7.8304110	ALLEGRO LINEAR AC 4ft RGBW 60X10deg ETL 120/277V AC	AM322500155
XB.N7.8307110	ALLEGRO LINEAR AC 4ft RGBW 60X30deg ETL 120/277V AC	AM322730055
XB.N7.8306110	ALLEGRO LINEAR AC 4ft RGBW 40deg ETL 120/277V AC	AM322920055

### Accessories

Model No.	Description	Item Code
XB.AC.4000000	QUATTRO AC XB DATA INJECTOR 100-277V ETL/CE	AB389160055
XB.AC.2302000	5-pin Field Installable AC Connector Plug IP66	AA438580235
XB.AC.2303000	5-pin Field Installable AC Connector Socket IP66	AA438570235
XB.AC.3106000	3-pin Field Installable AC Connector Socket IP66	AA792890035
	XB 5C-AWG14 CABLE AC US 10M/32.8ft	AA639240054
	XB 5C-AWG14 CABLE AC US 50M/164ft	AA639250054
	XB 5C-AWG14 CABLE AC US 100M/328ft	AA569430155
	XB 3C-AWG14 CABLE AC US 10M/32.8ft	AA639270054
	XB 3C-AWG14 CABLE AC US 50M/164ft	AA639260054
	XB 3C-AWG14 CABLE AC US 100M/328ft	AA556630155
DE.AC.0100000	RJ45 Male Connector Housing IP67	AA556100155
XB.AC.2304000	5-pin Connector Socket End Cap IP66	AA508870335



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