



# TRAXON

## Allegro Linear 2.1 AC RGBW



Project: \_\_\_\_\_  
Type: \_\_\_\_\_

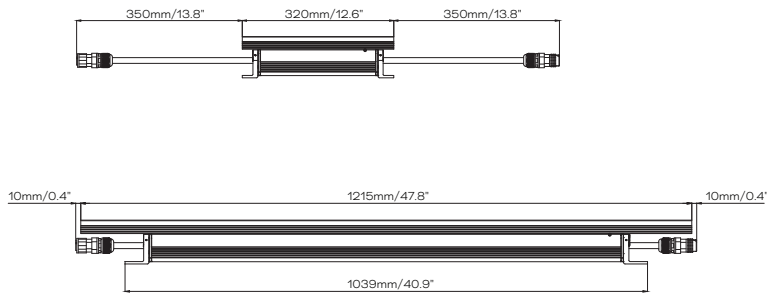


The Allegro Linear 2.1 AC RGBW family is a slim-profile, AC-line powered high-brightness luminaire. The family is controllable via DMX512, and is available in four lengths, from 320mm to 1215mm with 16.7 million additive RGB colors plus white, and various optics. The simplicity of the luminaire's topology 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.

### Features

- Outdoor applications
- Protection Class IP66; Impact rating IK07; Suitable for coastal environments
- Salt spray test compliant to ASTM B117-16
- Vibration compliant to 3G ANSI C136.31
- Integrated mounting feet with ±90° adjustment on beam aiming
- DMX512; Remote Device Management (RDM)
- DynaMood® : BinOne · BoostOne · AddressOne

### Dimensions



### Technologies

- DMX512
- DynaMood®: BinOne · BoostOne · AddressOne
- White Balance

### Color Options



### Lens Options

Clear



### Finish



Traxon Signature Gray  
RAL 7005

## Product Specifications

	300 / 1'	1200 / 4'
Light Source	Osram Oslon, separate LEDs	
Color Range	RGBW (White CCT: 3000K standard)	
Beam Angle	10°, 40°, 60° × 10°, 60° × 30°	
Luminous Flux	778 lm	3132 lm
Efficacy	52 lm/W typ.	
Lumen Maintenance	L70 @ 25° - 81,000h	
Cover Lens	Tempered glass cover	
Housing	Extruded Aluminum , Powder coating	
Adjustment Options	±90 tilt	
Mounting	Low Profile Mounting Brackets (bracket x 2 per length)	
Dimensions (L × W × H)	320 × 50 × 86mm 12.6" × 2.0" × 3.4"	1215 × 50 × 86mm 47.8" × 2.0" × 3.4"
Weight	1.8kg / 3.97lb	5.02kg/11.07lb
Regulatory Listing & Safety Approval	cETLus, FCC, RoHS, ASTM B117-16, ANSI C136.31 3G, IK07	
Operating Temperature	-30°C to +50°C/-22°F to +122°F (-20°C/-4°F starting)	
Storage Temperature	-40°C to +70°C/-40°F to +158°F	
Minimum Starting Temperature	-20°C / -4° F	
Environment	Outdoor (IP66), suitable for coastal environments	
Humidity	85%, non-condensing	

## Electrical Specifications

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

## System Specifications

Power	AC line
Control	DMX512; Remote Device Management (RDM); configurable for control in 300mm/1ft sections DynaMood®: BinOne · BoostOne · AddressOne
Power Supply	Integrated
Fixture Interconnection	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.

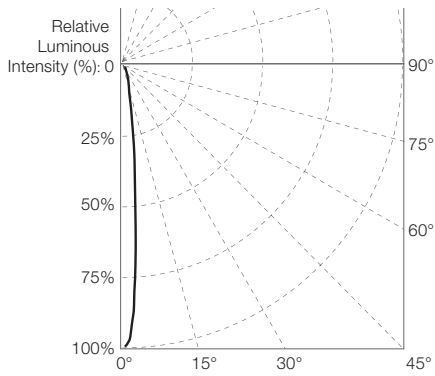
As with all electronic devices, LED output degrades over time - a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicate function of 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-79-09 standard.  
Lumen maintenance is calculated based on LM-80 compliant measurement.

## Source Specifications

Optics 10°

### Candela Distribution



### Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
<b>300 / 1'</b>			
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 / 4'</b>			
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 feet multiply by 3.28

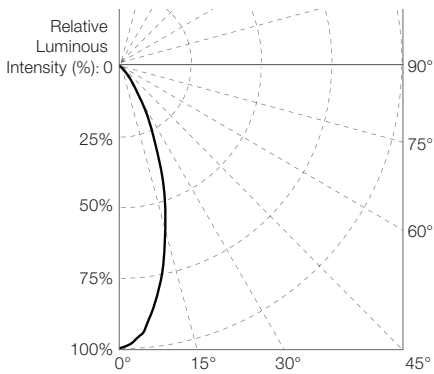
For fc divide by 10.7

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

## Source Specifications

Optics 40°

### Candela Distribution

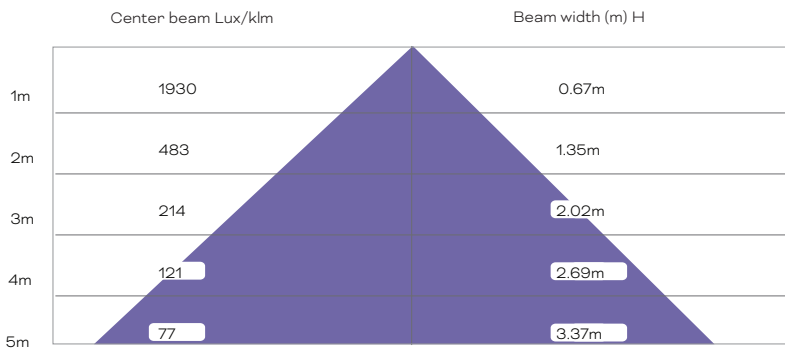


### Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
<b>300 / 1'</b>			
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 / 4'</b>			
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



■ Horiz. Spread: 37.2°

For fc divide by 10.7

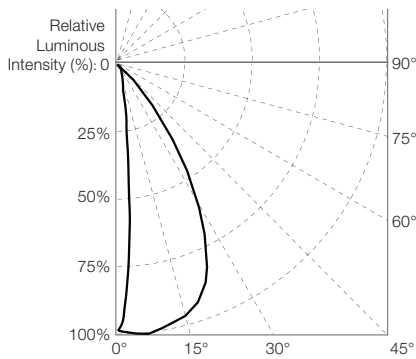
For feet multiply by 3.28

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## Source Specifications

Optics 60° x 10°

## Candela Distribution

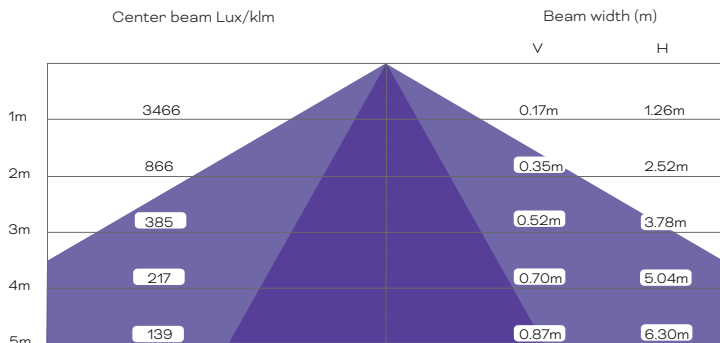


## Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
<b>300 / 1'</b>			
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 / 4'</b>			
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



- Vert. Spread: 64.4°
- Horiz. Spread: 10.0°

For fc divide by 10.7

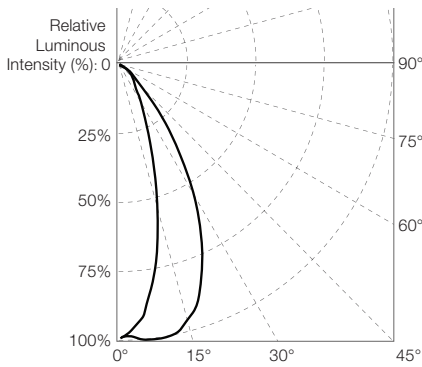
For feet multiply by 3.28

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## Source Specifications

Optics 60° x 30°

### Candela Distribution

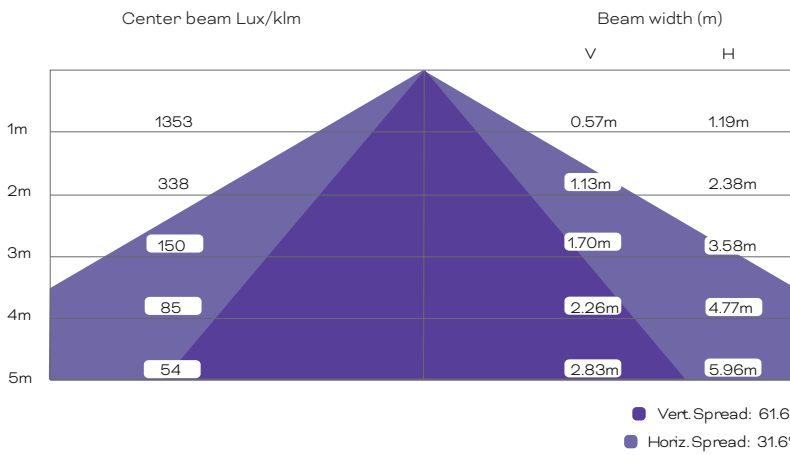


### Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
<b>300 / 1'</b>			
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 / 4'</b>			
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

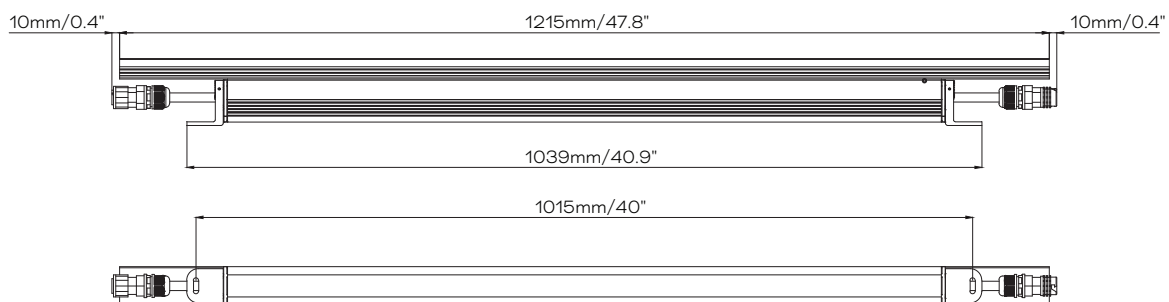
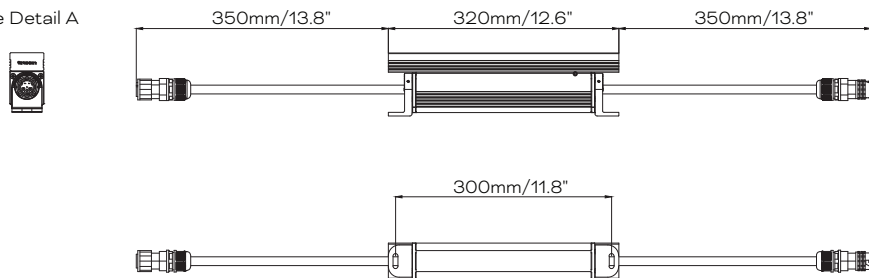


For fc divide by 10.7

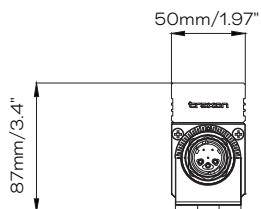
For feet multiply by 3.28

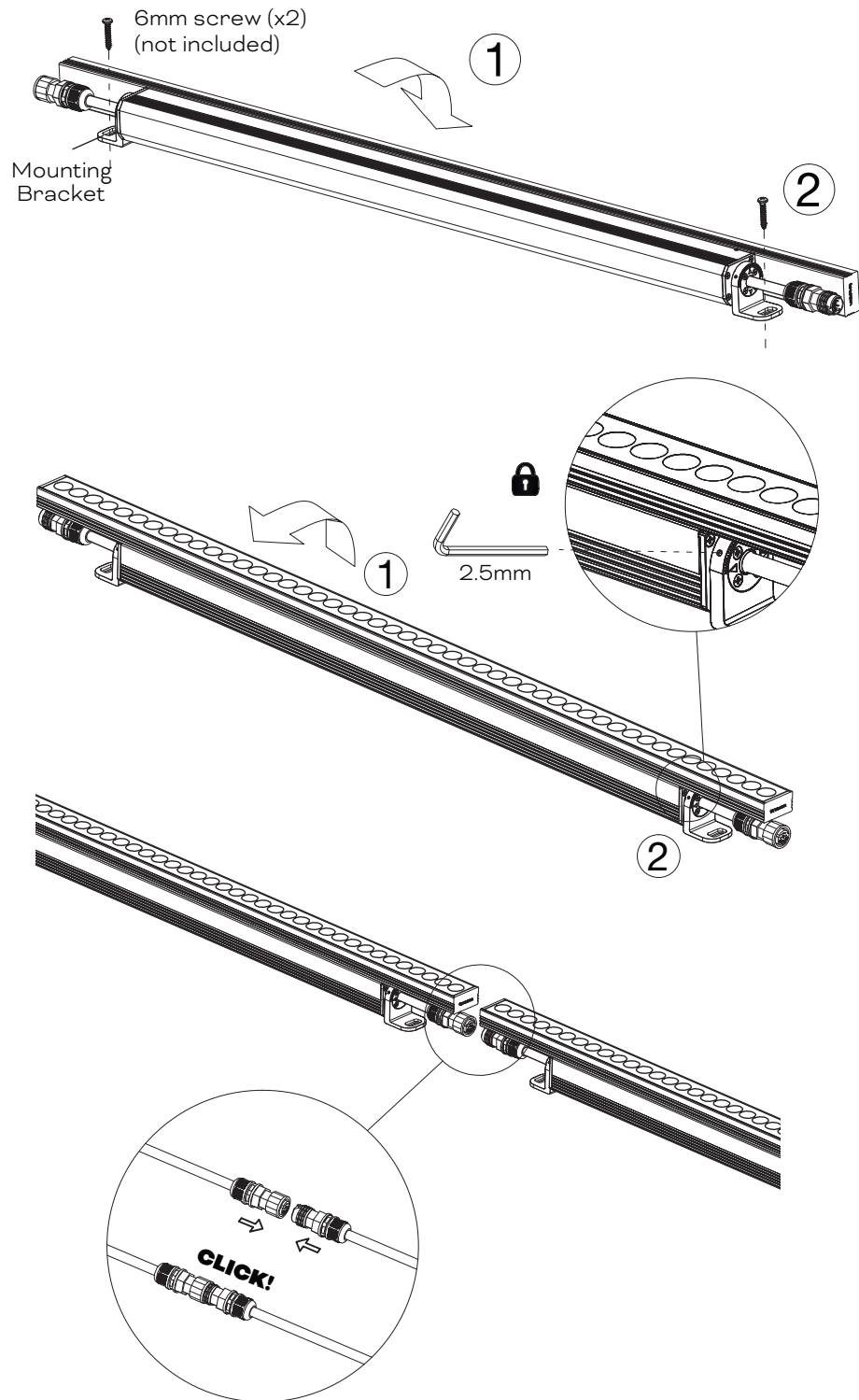
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See Detail A



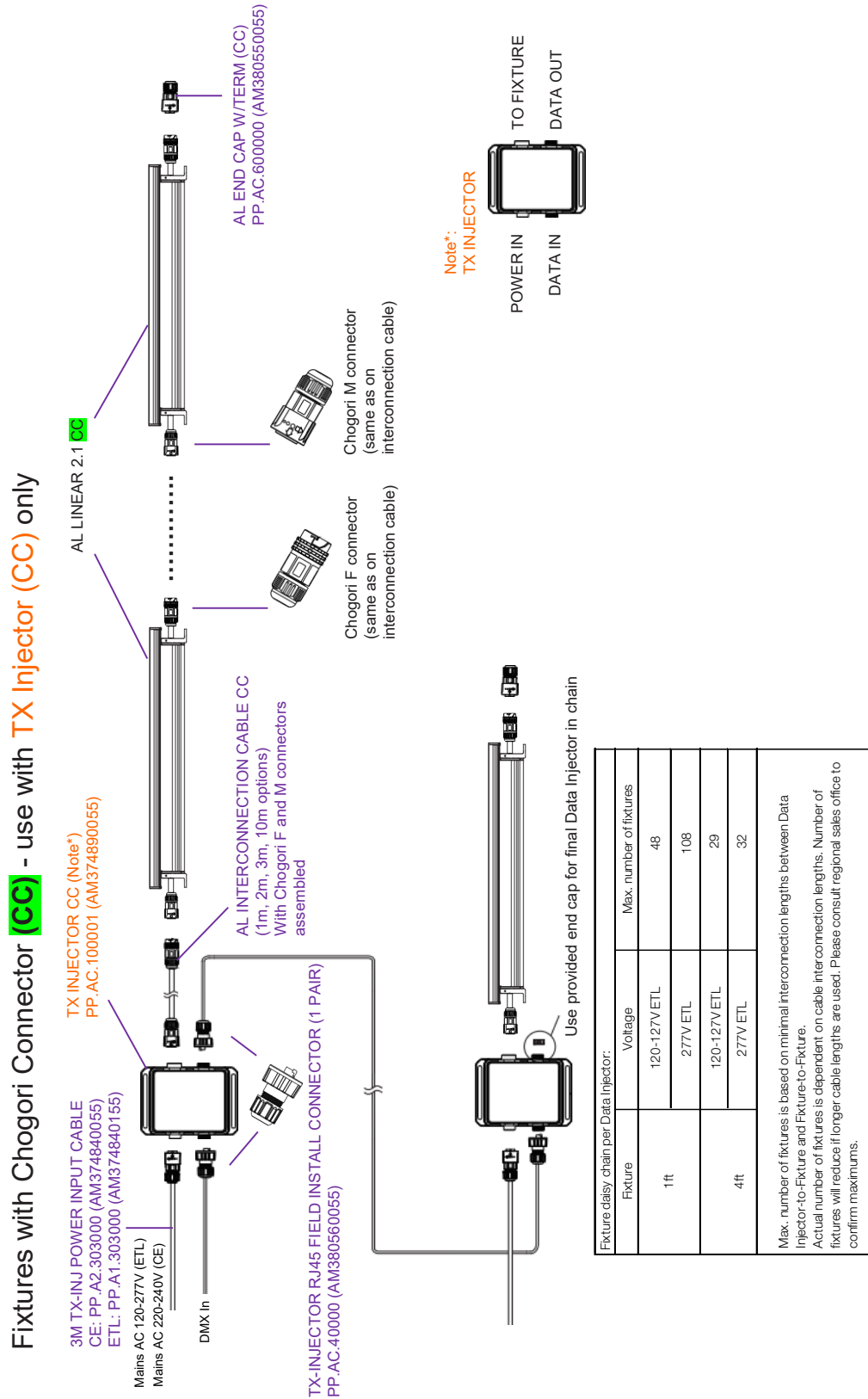
Detail A





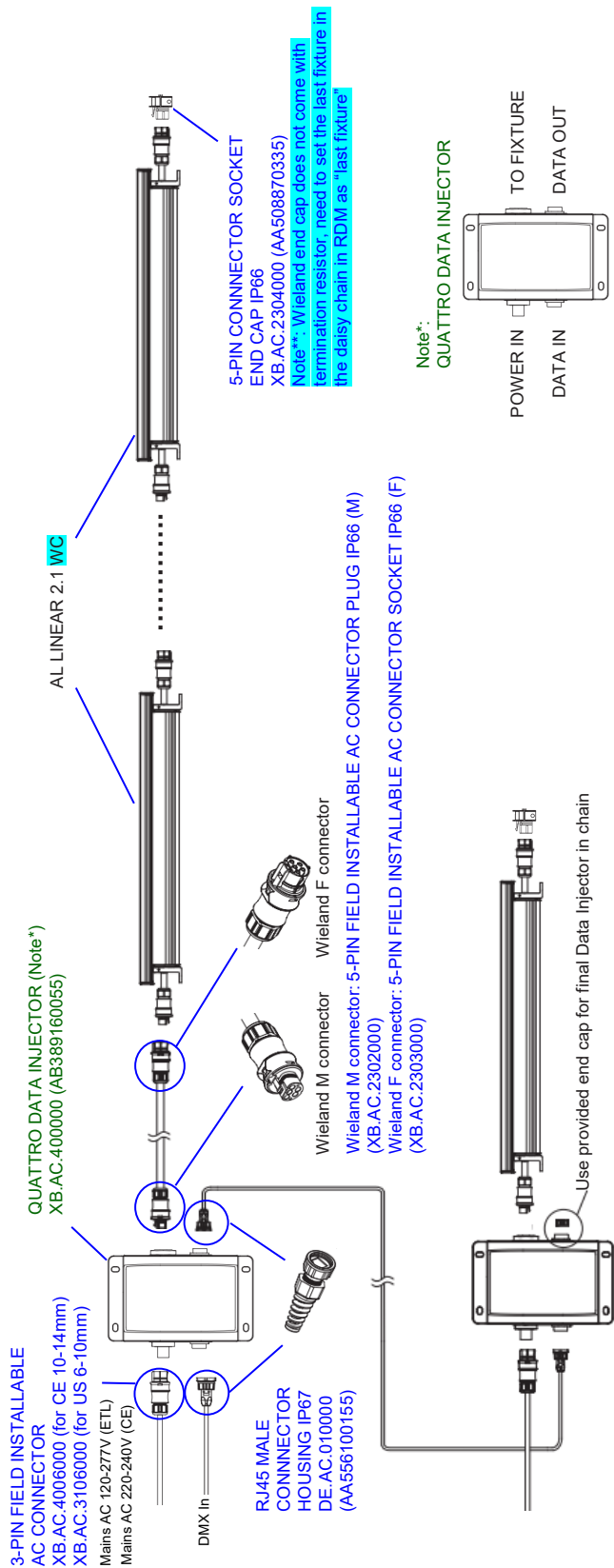


### System Diagram - CC Connector



### System Diagram - WC Connector

#### Fixtures with Wieland Connector (WC) – use with Quattro Data Injector:



Fixture daisy chain per Data Injector:		Max. number of fixtures
Fixture	Voltage	
	120-127V ETL	48
1ft	277V ETL	108
	120-127V ETL	29
4ft	277V ETL	32

Max. number of fixtures is based on minimal interconnection lengths between Data Injector-to-Fixture and Fixture-to-Fixture.  
 Actual number of fixtures is dependent on cable interconnection lengths. Number of fixtures will reduce if longer cable lengths are used. Please consult regional sales office to confirm maximums.

### Fixtures

#### Luminaire Models (CC)

Model No.	Description	Item Code
XB.AL.111314000	ALLEGRO LINEAR 2.1 1ft RGBW 10deg ETL 120/277V AC (CC)	AM468170055
XB.AL.111374000	ALLEGRO LINEAR 2.1 1ft RGBW 60X10deg ETL 120/277V AC (CC)	AM468180055
XB.AL.111384000	ALLEGRO LINEAR 2.1 1ft RGBW 60X30deg ETL 120/277V AC (CC)	AM468190055
XB.AL.111344000	ALLEGRO LINEAR 2.1 1ft RGBW 40deg ETL 120/277V AC (CC)	AM468200055
XB.AL.111394000	ALLEGRO LINEAR 2.1 1ft RGBW 40deg ETL 120/277V AC (CC)	AM468210055
XB.AL.411314000	ALLEGRO LINEAR 2.1 4ft RGBW 10deg ETL 120/277V AC (CC)	AM468220055
XB.AL.411374000	ALLEGRO LINEAR 2.1 4ft RGBW 60X10deg ETL 120/277V AC (CC)	AM468230055
XB.AL.411384000	ALLEGRO LINEAR 2.1 4ft RGBW 60x30deg ETL 120/277V AC (CC)	AM468240055
XB.AL.411344000	ALLEGRO LINEAR 2.1 4ft RGBW 40deg ETL 120/277V AC (CC)	AM468250055
XB.AL.411394000	ALLEGRO LINEAR 2.1 4ft RGBW 40deg ETL 120/277V AC (CC)	AM468260055

#### Luminaire Models (WC)

Model No.	Description	Item Code
XB.AL.111314001	ALLEGRO LINEAR 2.1 1ft RGBW 10deg ETL 120/277V AC (WC)	AM468870055
XB.AL.111374001	ALLEGRO LINEAR 2.1 1ft RGBW 60X10deg ETL 120/277V AC (WC)	AM468880055
XB.AL.111384001	ALLEGRO LINEAR 2.1 1ft RGBW 60X30deg ETL 120/277V AC (WC)	AM468890055
XB.AL.111344001	ALLEGRO LINEAR 2.1 1ft RGBW 40deg ETL 120/277V AC (WC)	AM468900055
XB.AL.111394001	ALLEGRO LINEAR 2.1 1ft RGBW 40deg ETL 120/277V AC (WC)	AM468910055
XB.AL.411314001	ALLEGRO LINEAR 2.1 4ft RGBW 10deg ETL 120/277V AC (WC)	AM468920055
XB.AL.411374001	ALLEGRO LINEAR 2.1 4ft RGBW 60X10deg ETL 120/277V AC (WC)	AM468930055
XB.AL.411384001	ALLEGRO LINEAR 2.1 4ft RGBW 60x30deg ETL 120/277V AC (WC)	AM468940055
XB.AL.411344001	ALLEGRO LINEAR 2.1 4ft RGBW 40deg ETL 120/277V AC (WC)	AM468950055
XB.AL.411394001	ALLEGRO LINEAR 2.1 4ft RGBW 40deg ETL 120/277V AC (WC)	AM468960055

### Accessories

Model No.	Description	Item Code
PP.AC.400000	PP INJ RJ45 FLD CNNCTRS (PAIR)	AM380560055
PP.A1.303000	3M PP LINEAR POWER INPUT CABLE ETL	AM374840155
XE.IG.0000121	CC-TO-WC CONVERSION CABLE ETL	AM473690055
KO.KA.601000	1M KONTOUR PWR/DATA INT CBL ETL	AM357490055
KO.KA.602000	2M KONTOUR PWR/DATA INT CBL ETL	AM357500055
KO.KA.603000	3M KONTOUR PWR/DATA INT CBL ETL	AM357510055
KO.KA.610000	10M KONTOUR PWR/DATA INT CBL ETL	AM357520055
PP.AC.600000	PP LIN/KON END CAP W/ TERM.	AM380550055
XB.AC.4000000	QUATTRO AC XB DATA INJECTOR	AB389160055
XB.AC.4006000	3PIN INSTALL CONNECTOR F 10-14	AB389040035
XB.AC.2302000	5PIN INSTALL CONNECTOR MALE	AA438580235
XB.AC.2303000	5PIN INSTALL CONNECTOR FEMALE	AA438570235
XB.AC.2304000	5PIN CONNECTOR END CAP FEMALE	AA508870335



# TRAXON