



TRAXON

Allegro Linear 2.1 AC RGB



Project: _____
Type: _____

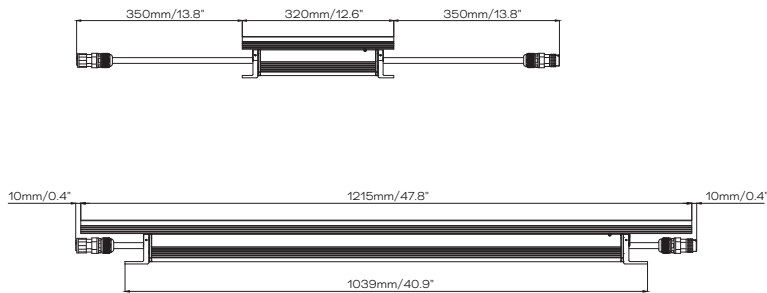


The Allegro Linear 2.1 AC RGB family is a slim-profile, AC-line powered high-brightness luminaire. The family is controllable via DMX512, and is available in four lengths, from 320mm to 1215mm with 16.7 million additive RGB colors, and various optics. The simplicity of the luminaire's topology means 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 $\pm 90^\circ$ adjustment on beam aiming
- DMX512; Remote Device Management (RDM)
- DynaMood® : BinOne · BoostOne · AddressOne

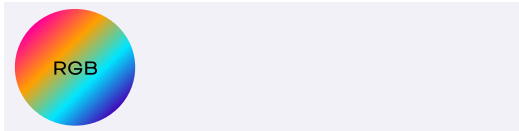
Dimensions



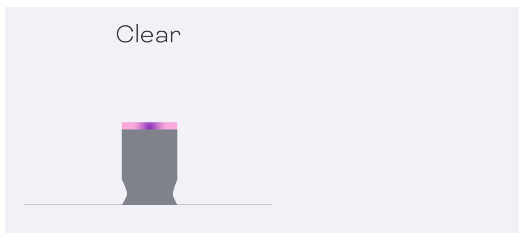
Technologies

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

Color Options



Lens Options



Finish



Product Specifications

	300 / 1'	1200 / 4'
Light Source	Osram Oslon, separate LEDs	
Color Range	RGB	
Beam Angle	10°, 40°, 60° × 10°, 60° × 30°	
Luminous Flux	622 lm	2389 lm
Efficacy	40 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.

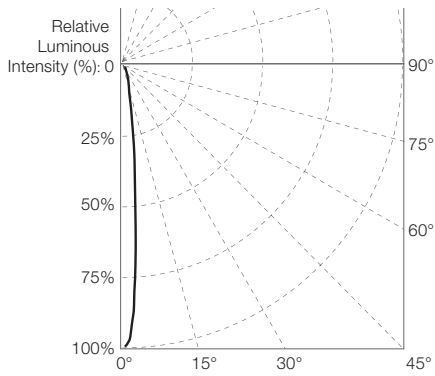
As with all electronic devices, LED output degrades over time - a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicate function of 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)
300 / 1'			
RGB (full-on)	654.75	11934.9	47.25
Red	147.29	2684.82	28.17
Green	495.58	9033.51	52.73
Blue	13.13	239.336	3.1
1200 / 4'			
RGB (full-on)	2511.23	45775.1	53.02
Red	564.91	10297.3	41.81
Green	1900.74	34647	65.32
Blue	50.35	917.788	5.39

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

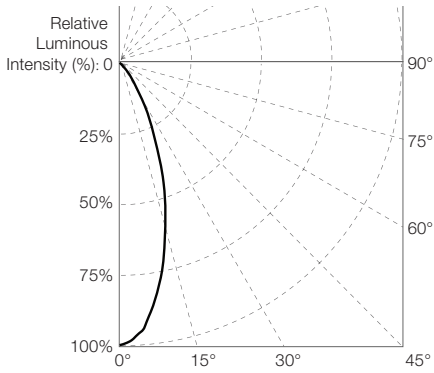
For fc divide by 10.7

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

Source Specifications

Optics 40°

Candela Distribution

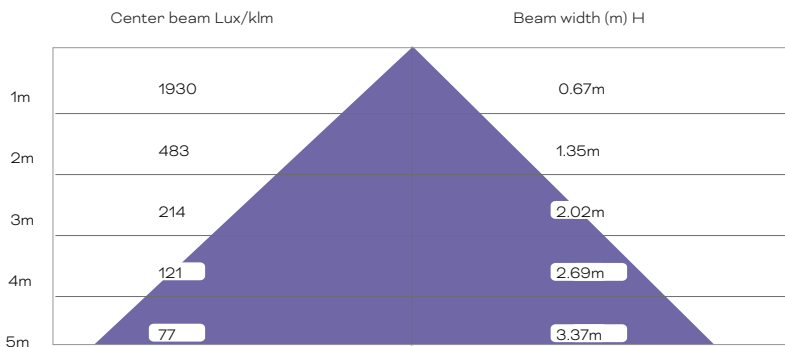


Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300 / 1'			
RGB (full-on)	691.39	1334.43	50.21
Red	153.17	295.629	29.39
Green	531.86	1026.53	56.71
Blue	13.26	25.5892	3.12
1200 / 4'			
RGB (full-on)	2663.3	5140.35	56.28
Red	590.02	1138.78	43.71
Green	2048.77	3954.28	70.45
Blue	51.07	98.5551	5.47

Luminaire setting: White-balance mode.

Illuminance at a Distance



● Horiz. Spread: 37.2°
For feet multiply by 3.28

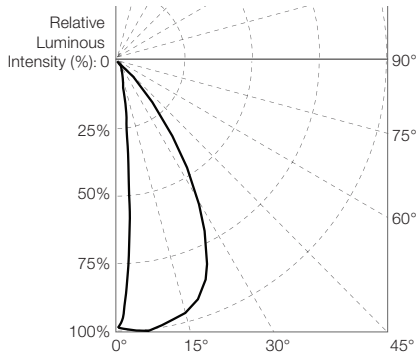
For fc divide by 10.7

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Source Specifications

Optics 60° x 10°

Candela Distribution

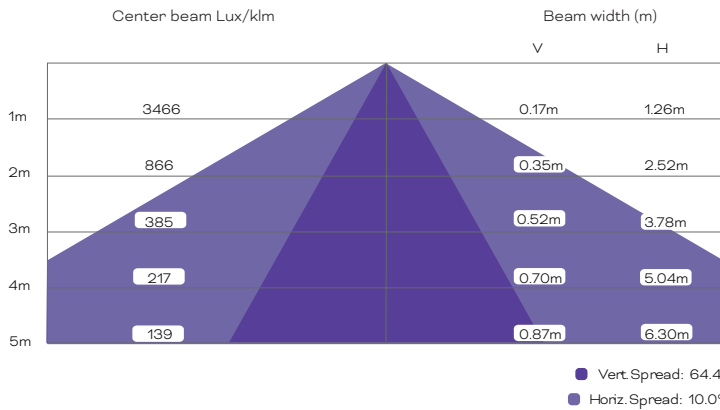


Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300 / 1'			
RGB (full-on)	621.9	1995.56	45
Red	139.14	446.47	26.71
Green	474.37	1522.16	50.85
Blue	12.07	38.736	2.85
1200 / 4'			
RGB (full-on)	2388.72	7664.95	50.42
Red	534.43	1714.87	39.56
Green	1822.05	5846.6	62.59
Blue	46.37	148.814	4.95

Luminaire setting: White-balance mode.

Illuminance at a Distance



For fc divide by 10.7

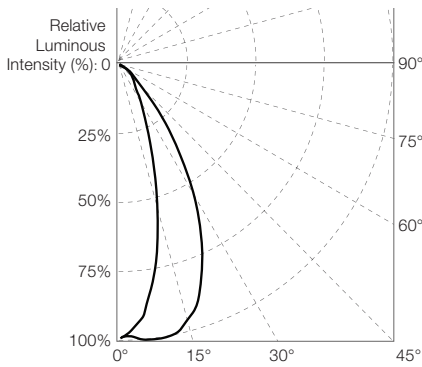
For feet multiply by 3.28

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Source Specifications

Optics 60° x 30°

Candela Distribution

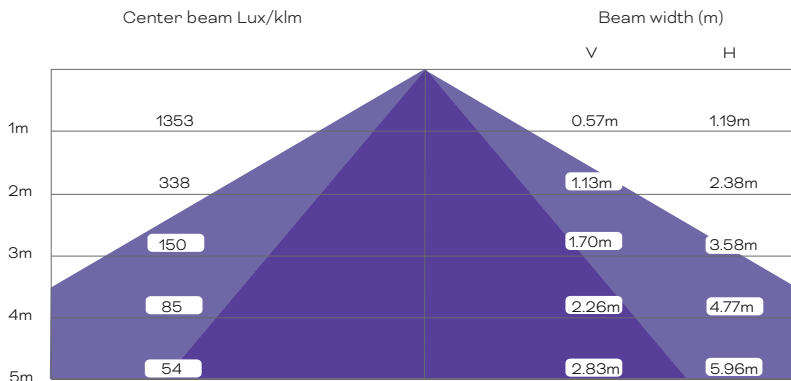


Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300 / 1'			
RGB (full-on)	577.62	781.502	42.08
Red	131.24	177.571	25.09
Green	442.77	572.001	47.11
Blue	9.66	13.0639	2.27
1200 / 4'			
RGB (full-on)	2249.17	3043.06	47.45
Red	511.05	691.463	37.8
Green	1731.86	2343.18	59.45
Blue	37.6	50.8491	4.02

Luminaire setting: White-balance mode.

Illuminance at a Distance



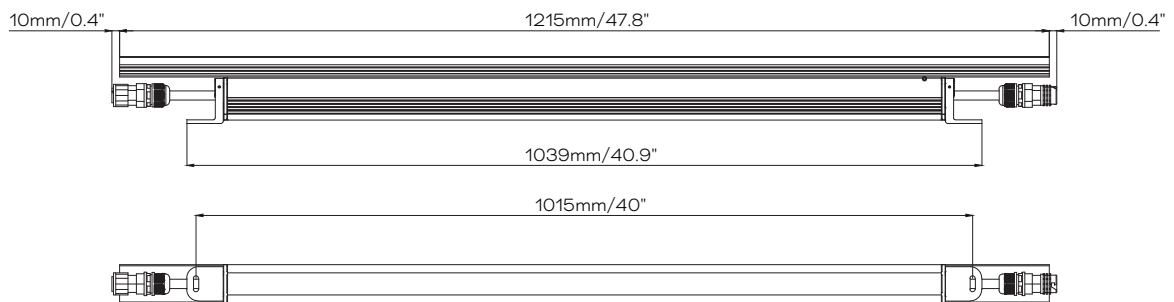
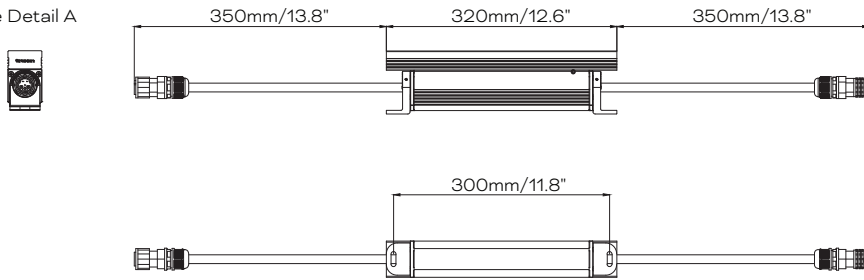
- Vert. Spread: 61.6°
- Horiz. Spread: 31.6°

For fc divide by 10.7

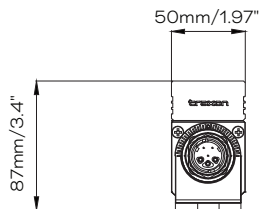
For feet multiply by 3.28

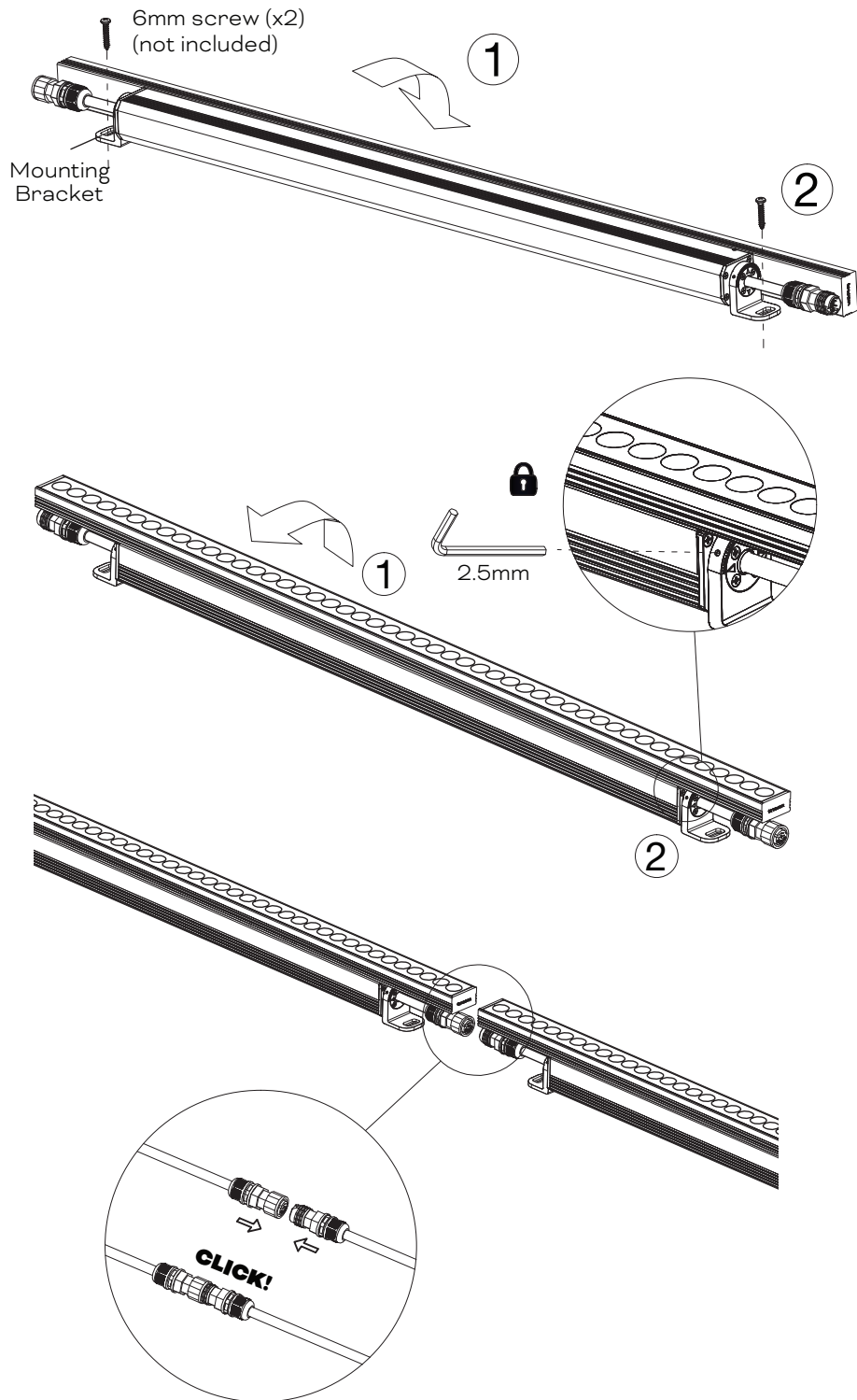
IES and LDT files are available for download from the Traxon website.

See Detail A

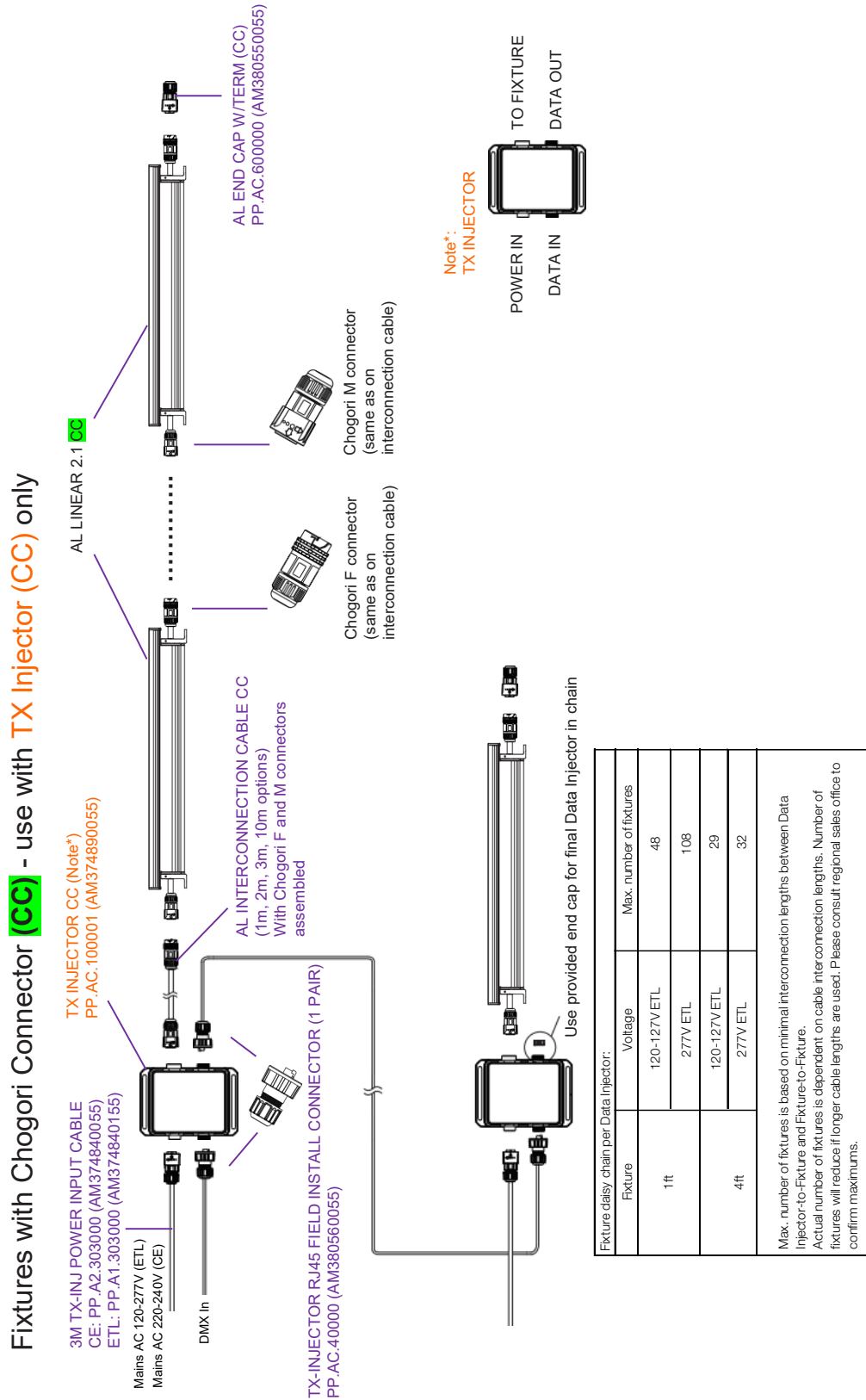


Detail A



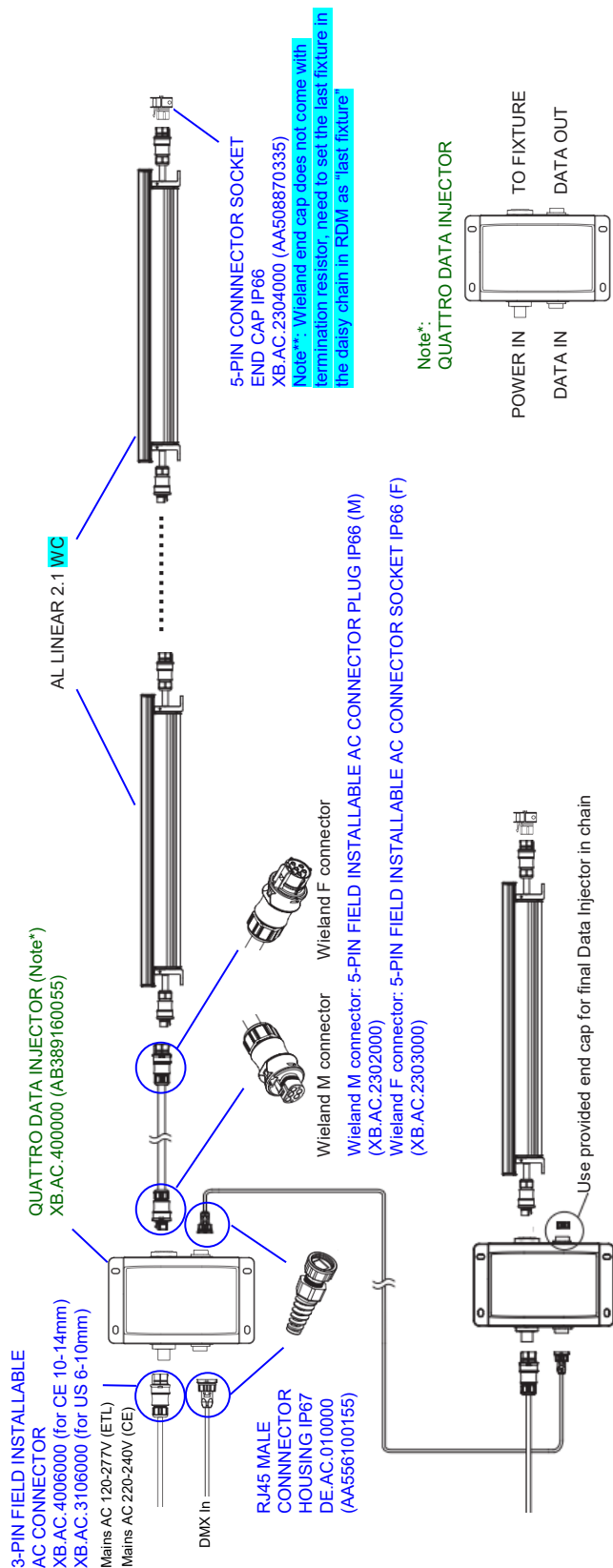


System Diagram - CC Connector



System Diagram - WC Connector

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



Fixture daisy chain per Data Injector:		
Fixture	Voltage	Max. number of fixtures
1ft	120-127V ETL	48
	277V ETL	108
4ft	120-127V ETL	29
	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.112014000	ALLEGRO LINEAR 2.1 1ft RGB 10deg ETL 120/277V AC (CC)	AM468270055
XB.AL.112074000	ALLEGRO LINEAR 2.1 1ft RGB 60X10deg ETL 120/277V AC (CC)	AM468280055
XB.AL.112084000	ALLEGRO LINEAR 2.1 1ft RGB 60X30deg ETL 120/277V AC (CC)	AM468290055
XB.AL.112044000	ALLEGRO LINEAR 2.1 1ft RGB 40deg ETL 120/277V AC (CC)	AM468300055
XB.AL.112094000	ALLEGRO LINEAR 2.1 1ft RGB 40deg ETL 120/277V AC (CC)	AM468310055
XB.AL.412014000	ALLEGRO LINEAR 2.1 4ft RGB 10deg ETL 120/277V AC (CC)	AM468320055
XB.AL.412074000	ALLEGRO LINEAR 2.1 4ft RGB 60X10deg ETL 120/277V AC (CC)	AM468330055
XB.AL.412084000	ALLEGRO LINEAR 2.1 4ft RGB 60X30deg ETL 120/277V AC (CC)	AM468340055
XB.AL.412044000	ALLEGRO LINEAR 2.1 4ft RGB 40deg ETL 120/277V AC (CC)	AM468350055
XB.AL.412094000	ALLEGRO LINEAR 2.1 4ft RGB 40deg ETL 120/277V AC (CC)	AM468360055

Luminaire Models (WC)

Model No.	Description	Item Code
XB.AL.112014001	ALLEGRO LINEAR 2.1 1ft RGB 10deg ETL 120/277V AC (WC)	AM468970055
XB.AL.112074001	ALLEGRO LINEAR 2.1 1ft RGB 60X10deg ETL 120/277V AC (WC)	AM468980055
XB.AL.112084001	ALLEGRO LINEAR 2.1 1ft RGB 60X30deg ETL 120/277V AC (WC)	AM468990055
XB.AL.112044001	ALLEGRO LINEAR 2.1 1ft RGB 40deg ETL 120/277V AC (WC)	AM469000055
XB.AL.112094001	ALLEGRO LINEAR 2.1 1ft RGB 40deg ETL 120/277V AC (WC)	AM469010055
XB.AL.412014001	ALLEGRO LINEAR 2.1 4ft RGB 10deg ETL 120/277V AC (WC)	AM469020055
XB.AL.412074001	ALLEGRO LINEAR 2.1 4ft RGB 60X10deg ETL 120/277V AC (WC)	AM469030055
XB.AL.412084001	ALLEGRO LINEAR 2.1 4ft RGB 60X30deg ETL 120/277V AC (WC)	AM469040055
XB.AL.412044001	ALLEGRO LINEAR 2.1 4ft RGB 40deg ETL 120/277V AC (WC)	AM469050055
XB.AL.412094001	ALLEGRO LINEAR 2.1 4ft RGB 40deg ETL 120/277V AC (WC)	AM469060055

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



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