

Allegro Linear AC SW



The Allegro Linear AC SW 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. 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
Light Source	High power LEDs	
Color Range	2700K, 3000K, 4000K, 5700K	
Beam Angle	10°, 40°, 60° × 10°, 60° × 30°	
Luminous Flux	810-948 lm	3453-4012 lm
Efficacy	64-84 lm/W typ.	
Lumen Maintenance	L70 @25°C - 80,000hrs	
Cover Lens	Tempered glass cover	
Housing	Aluminium, powder coating	
Adjustment Options	±90 tilt	
Dimensions (L x W x H)	320 x 50 x 86mm 12.6" x 2.0" x 3.4"	1215 x 50 x 86mm 47.8" x 2.0" x 3.4"
Weight	2.0kg/4.4lb	5.5kg/12.1lb
Regulatory Listing & Safety Approval	cETLus, IEC 60598-2-3, 3G ANSI C136.31, 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	
Environment	Outdoor (IP66), suitable for coastal environments	
Humidity	85%, non-condensing	

Electrical Specifications

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

System Specifications

Power	AC line
Control	DMX512; Remote Device Management (RDM) DynaMood®: BinOne · BoostOne · AddressOne
Power Supply	Built-in
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-79-08 standard.
 Lumen maintenance is calculated based on LM-80 compliant measurement.

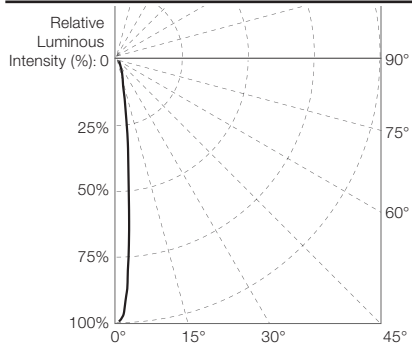
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Source Specifications

Optics 10°

Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
2700K	700.13	12762.1	56.28
3000K	827.16	15077.6	65.93
4000K	901.04	16424.3	71.66
5700K	908.97	16568.8	72.21
1200			
2700K	2898.45	52833.5	61.42
3000K	3449.48	62877.7	72.6
4000K	3757.6	68494.1	78.92
5700K	3790.64	69096.4	79.52

Illuminance at a Distance

	Center beam Lux/klm	Beam width (m) H
1m	16897	0.15m
2m	4224	0.29m
3m	1877	0.44m
4m	1056	0.59m
5m	676	0.73m

● Horiz. Spread: 8.4°

For fc divide by 10.7

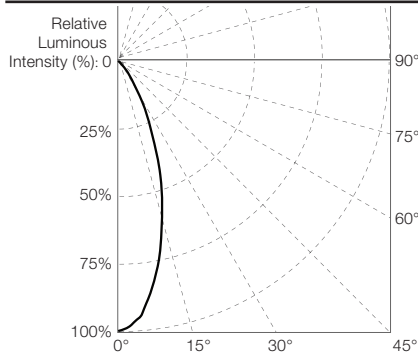
For feet multiply by 3.28

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

Source Specifications

Optics 40°

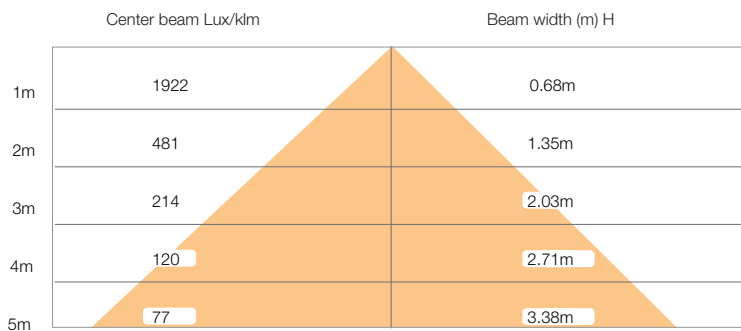
Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
2700K	736.91	1422.3	58.91
3000K	870.61	1680.34	69.46
4000K	948.38	1830.44	75.5
5700K	956.72	1846.54	76.08
1200			
2700K	3050.73	5888.14	64.83
3000K	3682.79	7108.05	77.55
4000K	4011.76	7742.98	84.29
5700K	4047.02	7811.05	84.94

Illuminance at a Distance



● Horiz.Spread: 37.4°
For feet multiply by 3.28

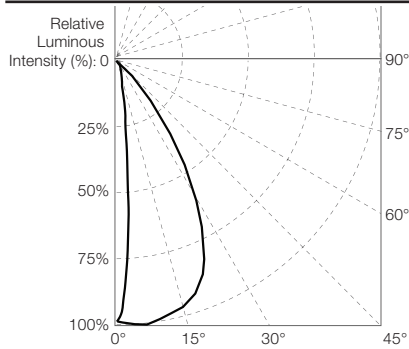
For fc divide by 10.7

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

Source Specifications

Optics 60° x 10°

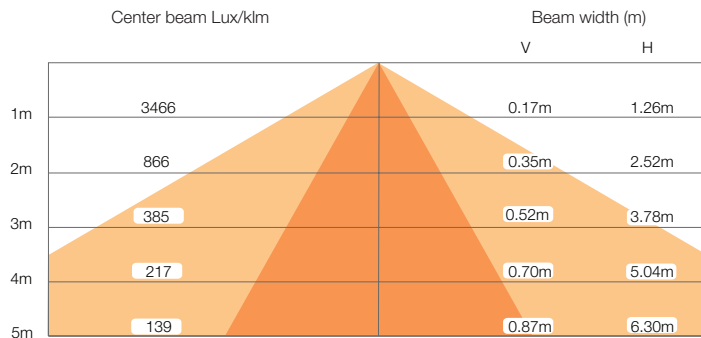
Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
2700K	676.56	2170.97	54
3000K	799.31	2564.85	63.88
4000K	870.71	2793.96	69.43
5700K	878.36	2818.51	69.97
1200			
2700K	2800.89	8987.59	58.9
3000K	3369.04	10810.7	70.9
4000K	3669.98	11776.3	77.06
5700K	3702.24	11879.9	77.65

Illuminance at a Distance



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

For fc divide by 10.7

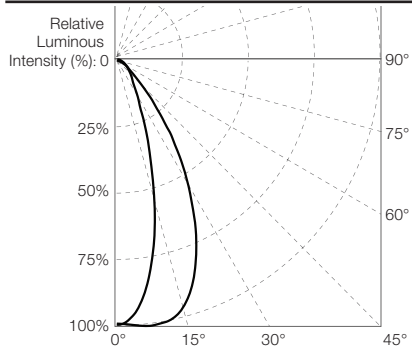
For feet multiply by 3.28

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Source Specifications

Optics 60° x 30°

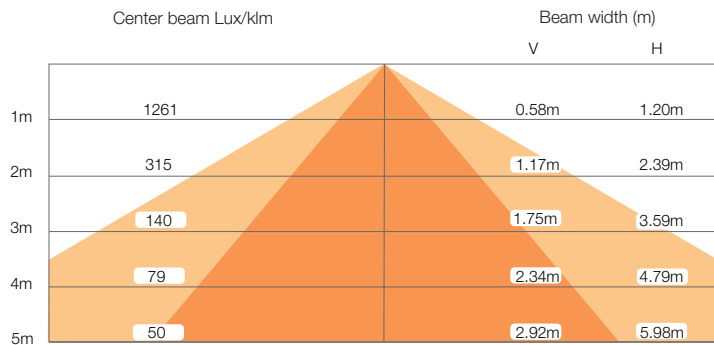
Candela Distribution



Light Output

Color	Luminous Flux (lm)	Candela Distribution at 100%	Efficacy (lm/W)
300			
2700K	629.06	851.108	50.41
3000K	743.19	1005.52	59.2
4000K	809.58	1095.35	64.35
5700K	816.7	1104.98	64.84
1200			
2700K	2604.24	3523.48	54.65
3000K	3169.78	4288.64	66.74
4000K	3452.91	4671.74	72.54
5700K	3483.27	4712.8	73.1

Illuminance at a Distance

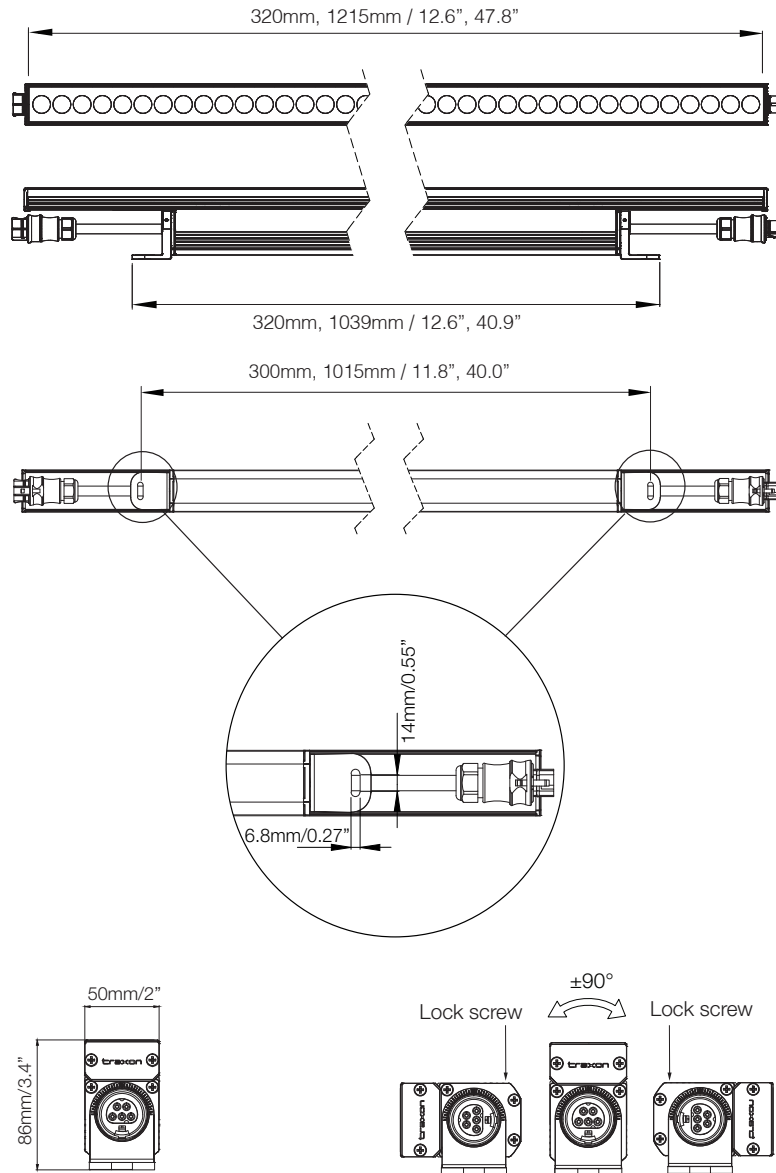


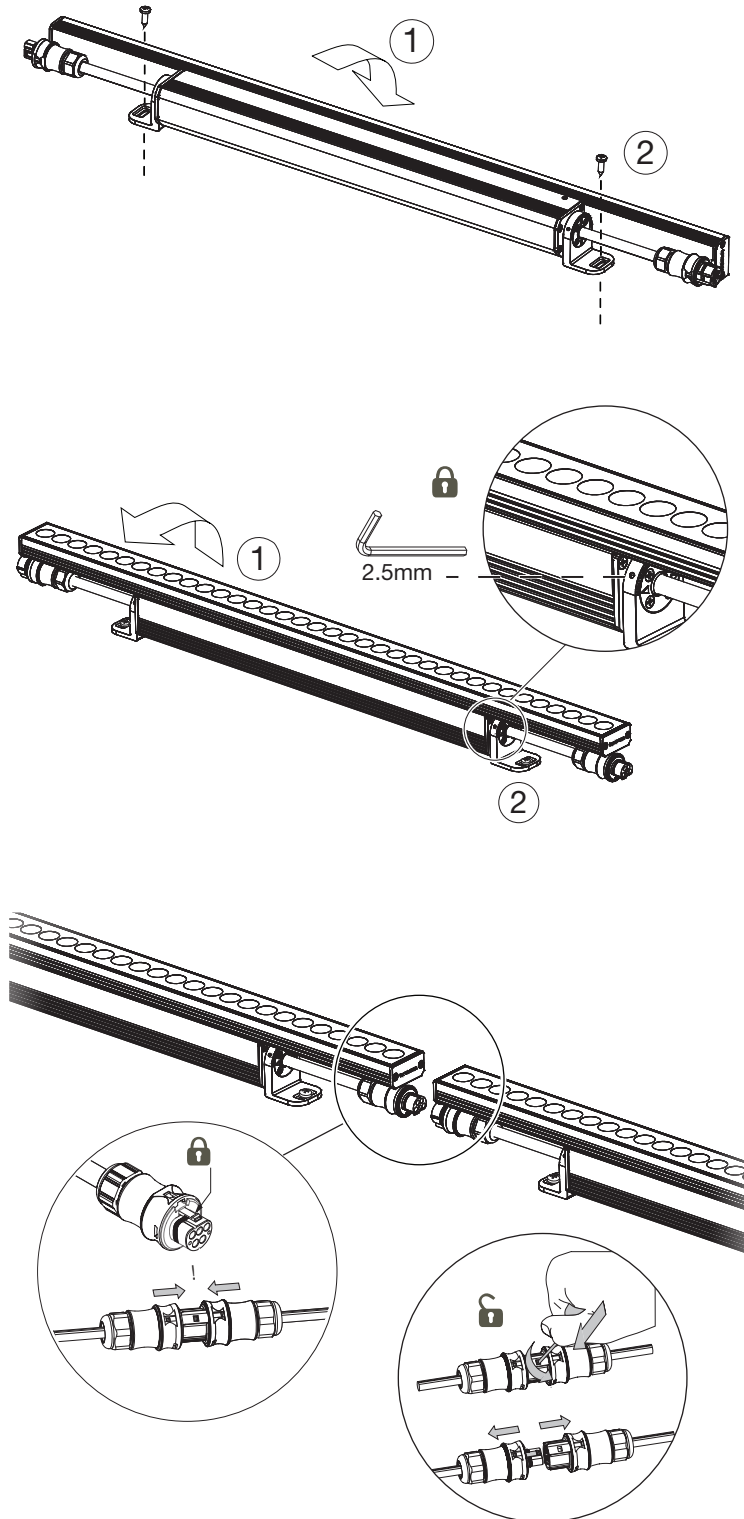
- Vert. Spread: 61.8°
- Horiz. Spread: 32.6°

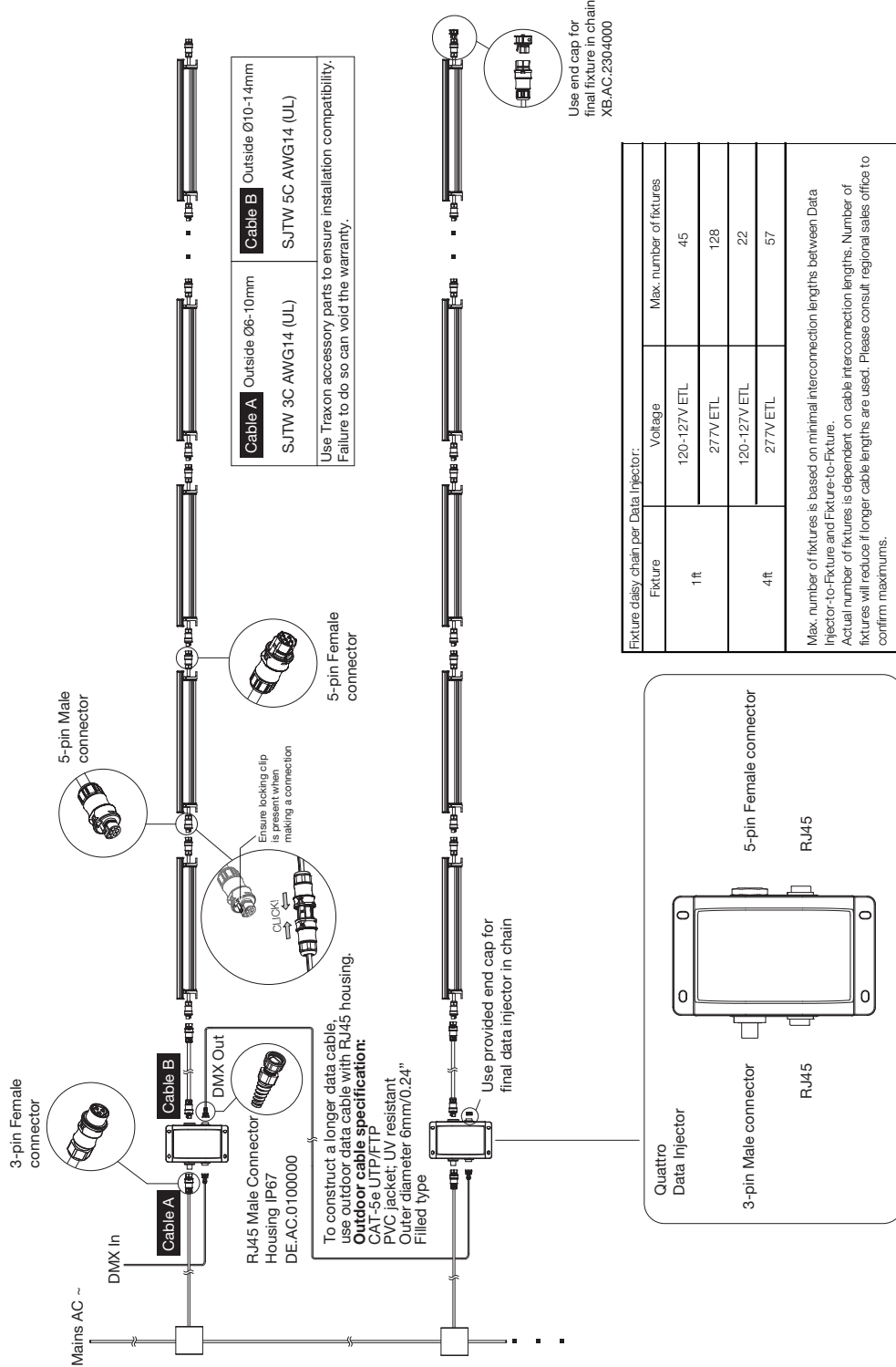
For fc divide by 10.7

For feet multiply by 3.28

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Allegro Linear AC SW

Ordering

Luminaire Models

Model No.	Description	Item Code
XB.N4.83A1110	ALLEGRO LINEAR AC 1ft 2700K DMX 10deg ETL 120/277V AC	AM352870055
XB.N4.83A4110	ALLEGRO LINEAR AC 1ft 2700K DMX 60X10deg ETL 120/277V AC	AM353060055
XB.N4.83A7110	ALLEGRO LINEAR AC 1ft 2700K DMX 60X30deg ETL 120/277V AC	AM353140055
XB.N4.83A6110	ALLEGRO LINEAR AC 1ft 2700K DMX 40deg ETL 120/277V AC	AM352980055
XB.N7.83A1110	ALLEGRO LINEAR AC 4ft 2700K DMX 10deg ETL 120/277V AC	AM352930055
XB.N7.83A4110	ALLEGRO LINEAR AC 4ft 2700K DMX 60X10deg ETL 120/277V AC	AM353090055
XB.N7.83A7110	ALLEGRO LINEAR AC 4ft 2700K DMX 60X30deg ETL 120/277V AC	AM353170055
XB.N7.83A6110	ALLEGRO LINEAR AC 4ft 2700K DMX 40deg ETL 120/277V AC	AM353010055
XB.N4.8371110	ALLEGRO LINEAR AC 1ft 3000K DMX 10deg ETL 120/277V AC	AM351560055
XB.N4.8374110	ALLEGRO LINEAR AC 1ft 3000K DMX 60X10deg ETL 120/277V AC	AM329380055
XB.N4.8377110	ALLEGRO LINEAR AC 1ft 3000K DMX 60X30deg ETL 120/277V AC	AM351450055
XB.N4.8376110	ALLEGRO LINEAR AC 1ft 3000K DMX 40deg ETL 120/277V AC	AM351660055
XB.N7.8371110	ALLEGRO LINEAR AC 4ft 3000K DMX 10deg ETL 120/277V AC	AM351610055
XB.N7.8374110	ALLEGRO LINEAR AC 4ft 3000K DMX 60X10deg ETL 120/277V AC	AM329420055
XB.N7.8377110	ALLEGRO LINEAR AC 4ft 3000K DMX 60X30deg ETL 120/277V AC	AM351510055
XB.N7.8376110	ALLEGRO LINEAR AC 4ft 3000K DMX 40deg ETL 120/277V AC	AM351690055
XB.N4.8391110	ALLEGRO LINEAR AC 1ft 4000K DMX 10deg ETL 120/277V AC	AM352060055
XB.N4.8394110	ALLEGRO LINEAR AC 1ft 4000K DMX 60X10deg ETL 120/277V AC	AM329470055
XB.N4.8397110	ALLEGRO LINEAR AC 1ft 4000K DMX 60X30deg ETL 120/277V AC	AM351980055
XB.N4.8396110	ALLEGRO LINEAR AC 1ft 4000K DMX 40deg ETL 120/277V AC	AM352140055
XB.N7.8391110	ALLEGRO LINEAR AC 4ft 4000K DMX 10deg ETL 120/277V AC	AM352090055
XB.N7.8394110	ALLEGRO LINEAR AC 4ft 4000K DMX 60X10deg ETL 120/277V AC	AM329500055
XB.N7.8397110	ALLEGRO LINEAR AC 4ft 4000K DMX 60X30deg ETL 120/277V AC	AM352010055
XB.N7.8396110	ALLEGRO LINEAR AC 4ft 4000K DMX 40deg ETL 120/277V AC	AM352170055
XB.N4.8361110	ALLEGRO LINEAR AC 1ft 5700K DMX 10deg ETL 120/277V AC	AM353400155
XB.N4.8364110	ALLEGRO LINEAR AC 1ft 5700K DMX 60X10deg ETL 120/277V AC	AM354010155
XB.N4.8367110	ALLEGRO LINEAR AC 1ft 5700K DMX 60X30deg ETL 120/277V AC	AM354050155
XB.N4.8366110	ALLEGRO LINEAR AC 1ft 5700K DMX 40deg ETL 120/277V AC	AM353440155
XB.N7.8361110	ALLEGRO LINEAR AC 4ft 5700K DMX 10deg ETL 120/277V AC	AM353430155
XB.N7.8364110	ALLEGRO LINEAR AC 4ft 5700K DMX 60X10deg ETL 120/277V AC	AM354040155
XB.N7.8367110	ALLEGRO LINEAR AC 4ft 5700K DMX 60X30deg ETL 120/277V AC	AM354080155
XB.N7.8366110	ALLEGRO LINEAR AC 4ft 5700K DMX 40deg ETL 120/277V AC	AM353470155

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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