



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

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



## Allegro Media Tube® Lite DW

Allegro Media Tube® Lite is a slim, direct view luminaire designed to integrate into any wall, facade or media lighting application with tight installation requirements. Available with a Direct View or Diffused View lens and 3 pixels per foot, Allegro Media Tube Lite provides smooth effects to add life and motion to the installation. Featuring auto addressing and simple quick-lock connections, Allegro Media Tube Lite is perfect for building façades, media applications, and more.



### Product Specifications

	Direct View		Diffused View	
	300mm / 12"	1200mm / 48"	300mm / 12"	1200mm / 48"
<b>Pixels</b>	3 pixels	12 pixels	3 pixels	12 pixels
<b>Light Source</b>	18 Warm White + 18 Cool White	72 Warm White + 72 Cool White	18 Warm White + 18 Cool White	72 Warm White + 72 Cool White
<b>Color Range</b>	White CCT 2700K-6500K			
<b>Beam Angle</b>	90°		115° x 170°	
<b>Luminous Flux</b>	242 lm	946 lm	245 lm	1166 lm
<b>Efficacy</b>	58 lm/W	56 lm/W	58 lm/W	69 lm/W
<b>Pixel Pitch</b>	100mm / 3.94"			
<b>LED Pitch</b>	16.7mm / 0.66"			
<b>Pixel Configuration</b>	6 Warm White + 6 Cool White LEDs per pixel			
<b>Housing</b>	Extruded Aluminum			
<b>Cover Lens</b>	Clear Glass		UV resistant polycarbonate	
<b>Mounting</b>	Fixed, non-adjustable mounting bracket (x2 per Tube)			
<b>Dimensions (W x H)</b>	24.5 x 31.2mm / 0.96" x 1.23" (mounting bracket included)		24.5 x 43mm / 0.96" x 1.69" (mounting bracket included)	
<b>Dimensions (L)</b>	300mm / 12"	1200mm / 48"	300mm / 12"	1200mm / 48"
<b>Weight</b>	0.45kg / 0.99lb	1.1kg / 2.43lb	0.45kg / 0.99lb	1.1kg / 2.43lb
<b>Regulatory Listing &amp; Safety Approval</b>	cETLus, FCC, ANSI C136.31 - 3G			
<b>Operating Temperature</b>	-40°C to +50°C / -40°F to +122°F			
<b>Storage Temperature</b>	-40°C to +70°C / -40°F to +158°F			
<b>Environment</b>	Outdoor, IP66, IK09 (Diffused View), Suitable for Coastal Environment			
<b>Humidity</b>	10-90%, non-condensing			

### Electrical Specifications

<b>Operating Voltage</b>	48V DC
<b>Power Consumption</b>	4.2W / 16.8W
<b>Lumen Maintenance</b>	L70B50 50,000 hours

### System Specifications

<b>Control</b>	DMX512
<b>Power Supply</b>	LED Engine 48V Outdoor
<b>Addressing Options</b>	Auto-addressing per daisy-chain
<b>Fixture Interconnection</b>	See 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.

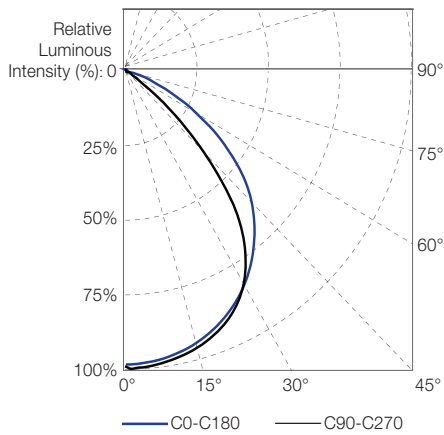
Lumen measurement complies with LM-79-08 standard.  
Lumen maintenance is calculated based on LM-80 compliant measurement.



## Source Specifications

	300mm / 12"	1200mm / 48"
Source	18 Warm White + 18 Cool White	72 Warm White + 72 Cool White
Optics	90°	
Cover Lens	Clear Glass	

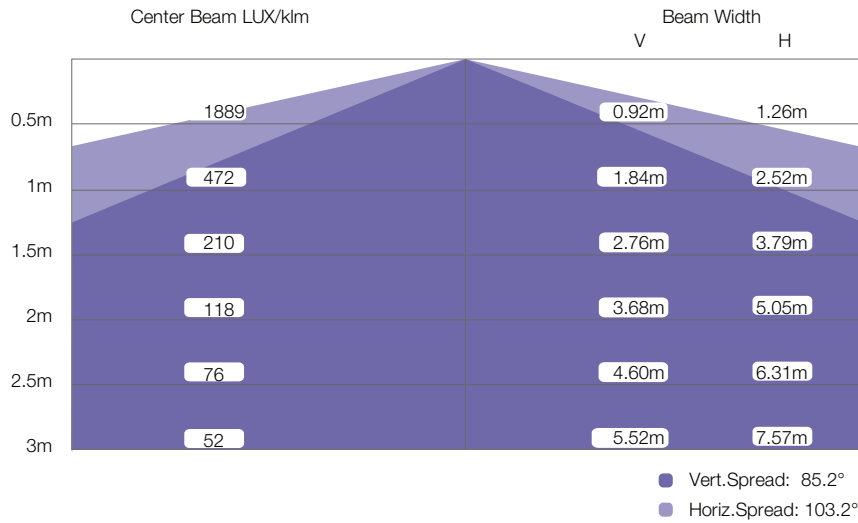
## Candela Distribution (Direct View)



## Light Output

Color	Luminous Flux (lm)	Efficacy (lm/W)
<b>300 / 12"</b>		
DW (full-on)	242.3	57.7
6500K	119.6	48.6
2700K	126.7	51.7
<b>1200 / 48"</b>		
DW (full-on)	945.6	56.3
6500K	458.1	46.6
2700K	496.5	50.7

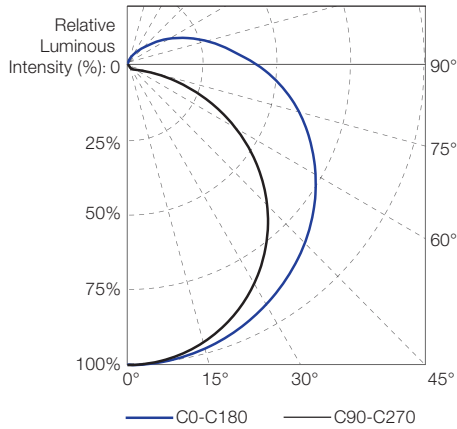
## Illuminance at a Distance



## Source Specifications

	300mm / 12"	1200mm / 48"
<b>Source</b>	18 Warm White + 18 Cool White	72 Warm White + 72 Cool White
<b>Optics</b>	115° x 170°	
<b>Cover Lens</b>	UV resistant polycarbonate	

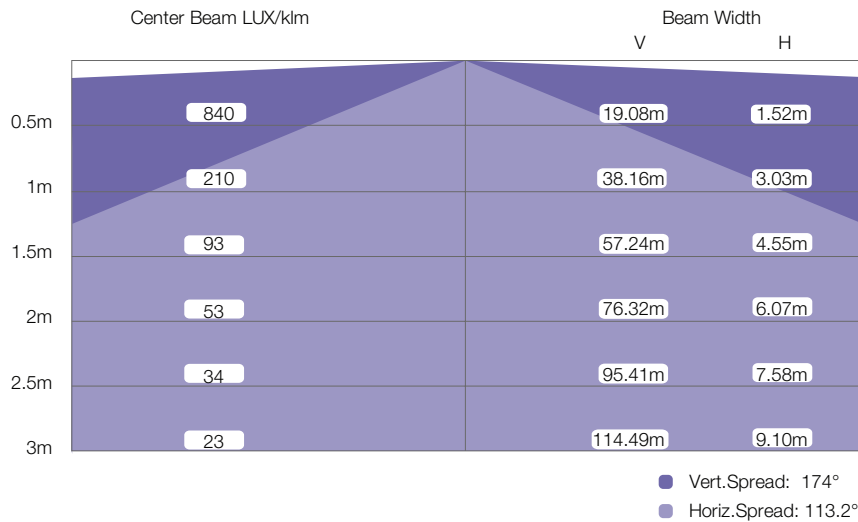
## Candela Distribution (Diffused View)



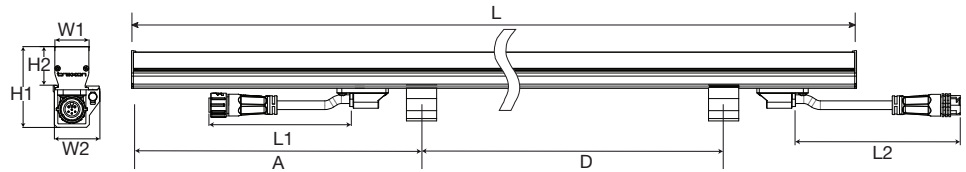
## Light Output

Color	Luminous Flux (lm)	Efficacy (lm/W)
<b>300 / 12"</b>		
DW (full-on)	245.1	58.0
6500K	118.8	48.0
2700K	132.0	54.0
<b>1200 / 48"</b>		
DW (full-on)	1166.1	69.0
6500K	562.1	57.0
2700K	618.6	63.0

## Illuminance at a Distance

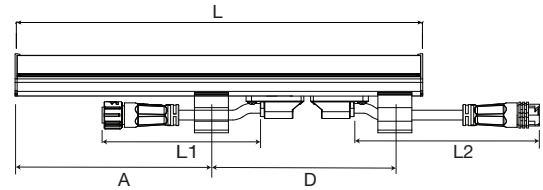


## Fixture Dimensions (Direct View)

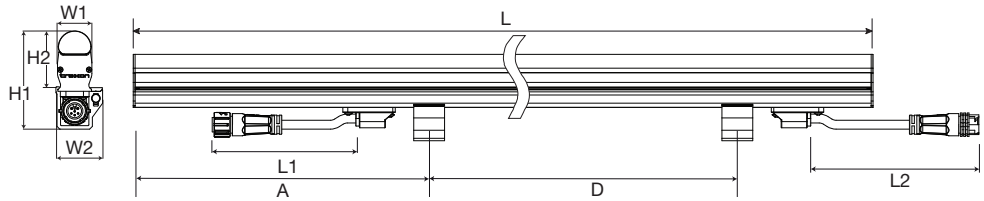


NOTE: Please see CAD files for additional dimensional data.

	W1	W2	H1	H2	A	D	L	L1	L2
1200mm	24.5mm	33.3mm	58.2mm	31.2mm	240mm	850mm	1200mm	116.5mm	136.3mm
48"	0.96"	1.31"	2.29"	1.23"	9.45"	33.46"	47.24"	4.59"	5.37"
300mm	24.5mm	33.3mm	58.2mm	31.2mm	145mm	135mm	300mm	116.5mm	136.3mm
12"	0.96"	1.31"	2.29"	1.23"	5.71"	5.31"	11.81"	4.59"	5.37"

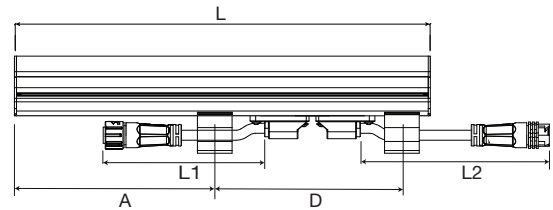


## Fixture Dimensions (Diffused View)



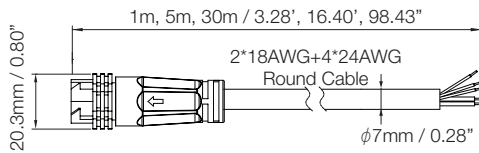
NOTE: Please see CAD files for additional dimensional data.

	W1	W2	H1	H2	A	D	L	L1	L2
1200mm	24.5mm	33.3mm	70mm	43mm	240mm	850mm	1200mm	116.5mm	136.3mm
48"	0.96"	1.31"	2.76"	1.69"	9.45"	33.46"	47.24"	4.59"	5.37"
300mm	24.5mm	33.3mm	70mm	43mm	145mm	135mm	300mm	116.5mm	136.3mm
12"	0.96"	1.31"	2.76"	1.69"	5.71"	5.31"	11.81"	4.59"	5.37"

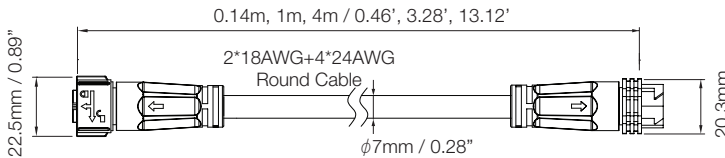


## Connection Accessories

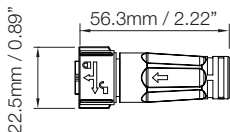
### Starter Cable



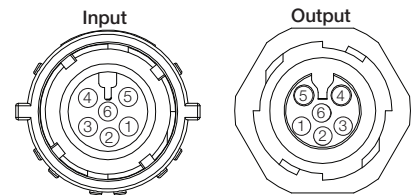
### Interconnection Cable



### End Cap with 120 Ohm Terminator

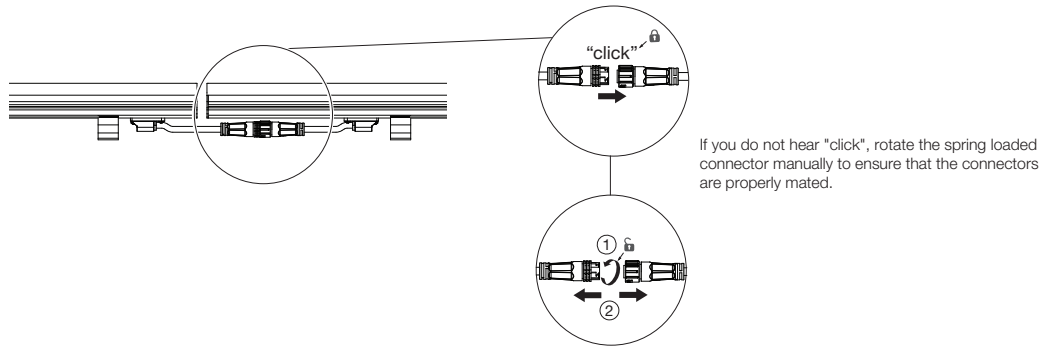


### Connector Pin Assignment

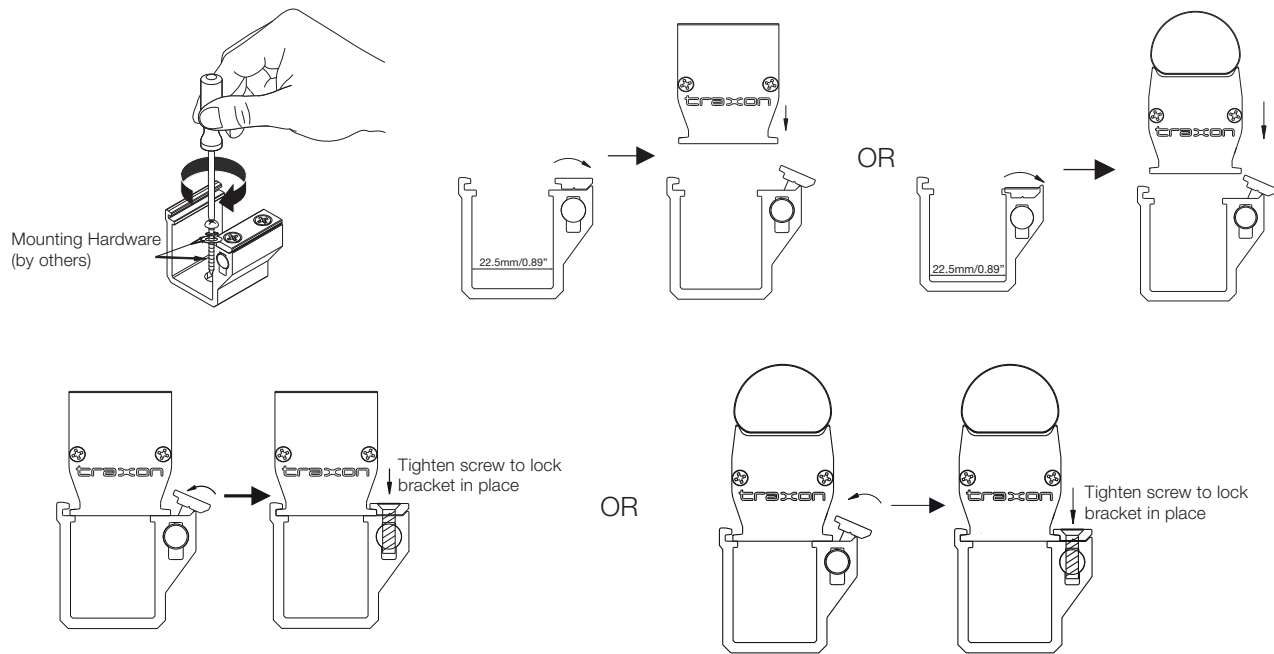


Wire#	Description	Color
1	DMX+	Green
2	Ground	White
3	DMX-	Blue
4	DC48V-	Black
5	DC48V+	Red
6	Address	Brown

Cable Connection

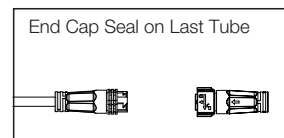
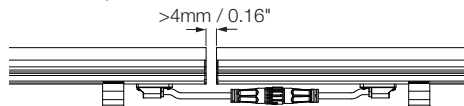


Bracket Mounting

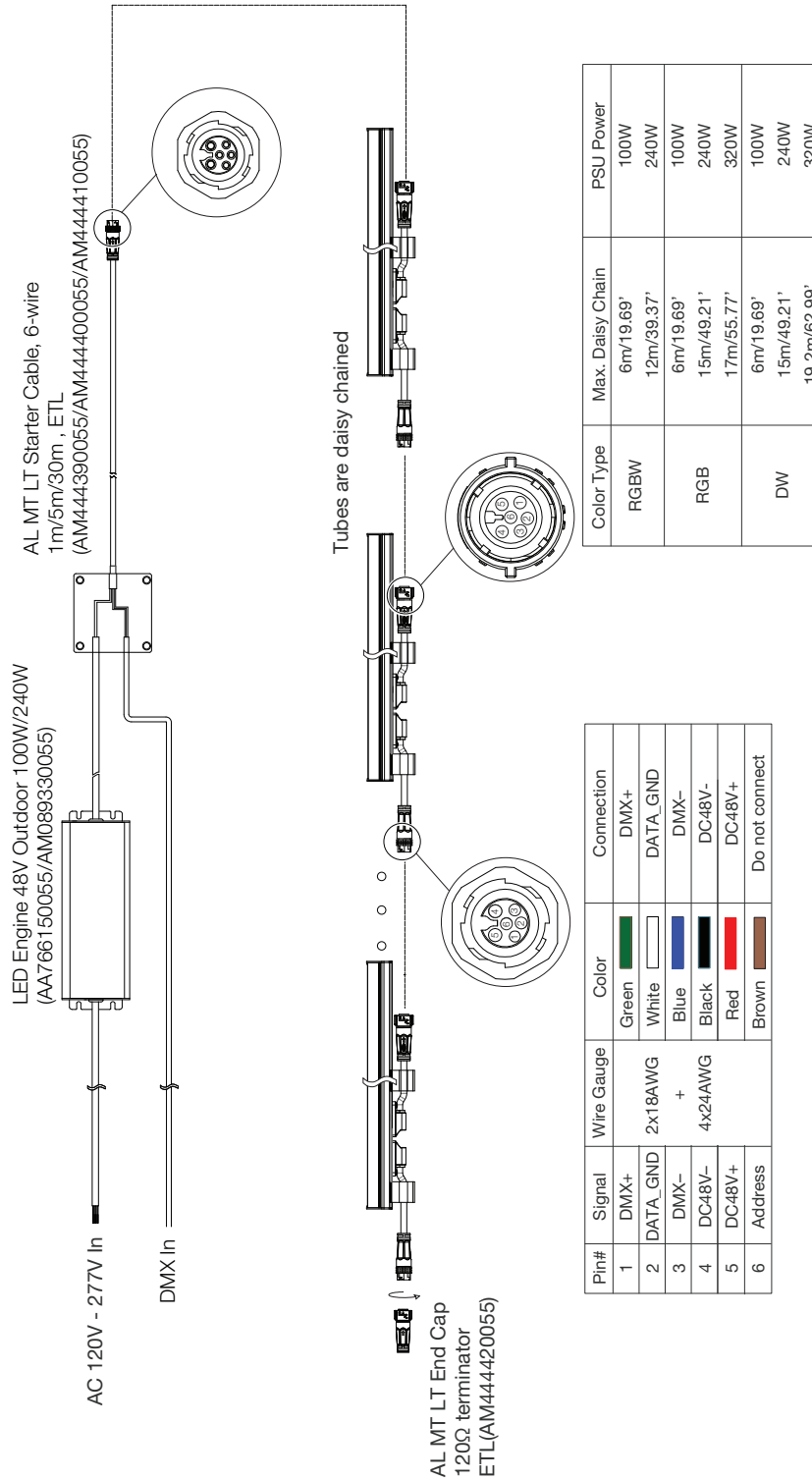


Tube-to-Tube Clearance

To maintain consistent LED pitch and to allow for thermal expansion, a minimum of 4mm / 0.16" is required between luminaire's.



System Diagram



Wiring diagram shows only typical connections. Max. number of fixtures is based on minimal interconnection lengths. Actual number of fixtures is dependent on cable interconnections. Number of fixtures will reduce if longer cable lengths are used. Consult with your regional sales office to confirm maximums.

### Model Number

TU	AL	N	3	NN	N	0	0
	Length		Color	Pixels		Optics	
	1: 300mm/12"		3: Dynamic White 2700K-6500K	03: 3 Pixels with 300mm/11.8"		6: Flat clear cover	
	B: 1200mm/48"			12: 12 Pixels with 1200mm/47.2"		7: Round diffused cover	
				01: 1 Pixel per tube			
				00: 1 ON/OFF			

### Fixtures

Model No.	Description	Item Code
TU.AL.1303700	AL MT LT DW 300 3PXL DF R ETL	AM444260055
TU.AL.B312700	AL MT LT DW 1200 12PXL DF R ETL	AM444230055
TU.AL.1303600	AL MT LT DW 300 3PXL CR ETL	AM444380055
TU.AL.B312600	AL MT LT DW 1200 12PXL CR ETL	AM444350055

### TX Connect

Model No.	Description	Item Code
TU.AC.1210100	AL MT LT STARTER CABLE, 6-WIRE, 1M , ETL	AM444390055
TU.AC.1210200	AL MT LT STARTER CABLE, 6-WIRE, 5M , ETL	AM444400055
TU.AC.1210300	AL MT LT STARTER CABLE, 6-WIRE, 30M, ETL	AM444410055
TU.AC.1210400	AL MT LT END CAP, 120Ω TERMINATOR, ETL	AM444420055
TU.AC.1210700	AL MT LT INTER CABLE, 6-WIRE, 0.14M, ETL	AM444450055
TU.AC.1210500	AL MT LT INTER CABLE, 6-WIRE, 1M, ETL	AM444430055
TU.AC.1210600	AL MT LT INTER CABLE, 6-WIRE, 4M, ETL	AM444440055
TU.AC.0602000	WAGO TERMINAL BLOCK SET (7A)	AB469230035
TU.AC.0602100	7A SB FUSE (100PCS)	AB469240055

### TX Control

Model No.	Description	Item Code
N/A	LED ENGINE 100W 48V OUTDOOR	AM338910055
N/A	LED ENGINE 240W 48V OUTDOOR	AM089330055
N/A	LED ENGINE 320W 48V OUTDOOR	AM088070055
160185	VIDEO MICRO CONVERTER (DMX/E:PIX)	AA438940235
160194	VIDEO MICRO CONVERTER GARAGE (OPTIONAL)	AA623920031
EN.BP.0000100	BUTLER PRO DMX/RDM	AA628600035
EN.BX.0000001	BUTLER XT2	AA557270131
160174	BUTLER XT2 GARAGE (OPTIONAL)	AA556660031
EN.BU.0000001	BUTLER S2	AB436200031
AC.BG.0000001	BUTLER S2 GARAGE (OPTIONAL)	AA611800031
N/A	LCE3FX E:CUE	AM368100135
N/A	LCE3 E:CUE	AM368100035
N/A	LIGHTING CONTROL ENGINE 2 MX WITH ETL	AM349340031
N/A	E:CUE SYMPL DMX NODE	AB444180035