



TRAXON Plus⁺

Linear Plus RGBW Discrete



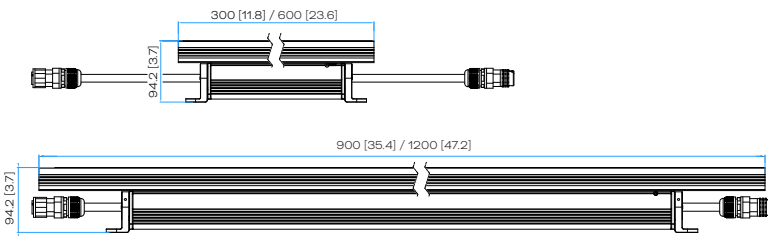
The Traxon Linear Plus is an AC powered, high-brightness outdoor luminaire that seamlessly integrates into any architectural, residential, or commercial setting. Featuring a choice of DMX/RDM and 0-10V control, RGBW (Quad and Discrete), DW and White color options and intelligent control personalities, allowing seamless Linear grazing and washing effects. This product is intended for use in high-quality colored light applications.

Features

- DMX / RDM control
- Easy installation and maintenance
- Dynamic Boost
- Assortment of optical and installation accessories

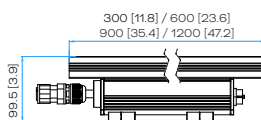
Dimensions

Unit: mm [inches]



Panel Mount Output Version

Unit: mm [inches]



Project: _____

Type: _____



IP66



COAST



DMX/RDM



ANSI 3G



IK08

Technologies

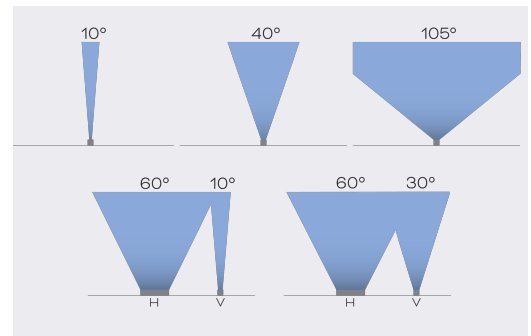
- Auto-Addressing / Manual Addressing
- Dynamic Boost

Color Options



RGBA option is on demand

Beam Angles



Finish



Product Specifications

	RGBW Discrete (D) LED			
Length Option	300mm [1ft]	600mm [2ft]	900mm [3ft]	1200mm [4ft]
Pixels	1	2 (1 pixel is on demand)	3 (1 pixel is on demand)	4 (1/2 pixel is on demand)
Color Range	RGBW (W=4000K); RGBW (W=3000K) is on demand Dominant wavelength: Red: 625nm / Green: 525nm / Blue: 450nm			
Color Resolution	16-Bit Grayscale, Gamma 2.2			
Refresh Rate	12kHz			
LED Quantity	RGBW Discrete (D) LED 12 pcs 3R+3G+3B+3W	RGBW Discrete (D) LED 24 pcs 6R+6G+6B+6W	RGBW Discrete (D) LED 36 pcs 9R+9G+9B+9W	RGBW Discrete (D) LED 48 pcs 12R+12G+12B+12W
Beam Angle	10°, 40°, 105°, 60° x 10°, 60° x 30°			
Luminous Flux (W4000K Full On)	15W: 600.0 lm (10°)	30W: 1384.6 lm (10°)	45W: 2079.0 lm (10°)	60W: 2820.0 lm (10°)
Efficacy (W4000K Full On)	15W: 40.0 lm/W (10°)	30W: 46.2 lm/W (10°)	45W: 46.2 lm/W (10°)	60W: 47.0 lm/W (10°)
CRI	90 CRI by request: 2700K-4000K (CRI90)			
Housing	Powder Coated Extruded Aluminum			
Housing Finish	Standard color: Traxon Signature Gray (RAL7005) Optional color: Gray (RAL7015), Black (RAL9005), White (RAL9003), Custom			
Cover Lens	Tempered glass			
Mounting	Surface Mount Optional mounting accessories are available			
Adjustment Options	-90° to +90° -90° (Panel Mount)			
Dimensions (L x W x H)	300mm x 50mm x 94mm 11.8" x 2" x 3.7"	600mm x 50mm x 94mm 23.6" x 2" x 3.7"	900mm x 50mm x 94mm 35.4" x 2" x 3.7"	1200mm x 50mm x 94mm 47.2" x 2" x 3.7"
Dimensions (Panel Mount) (L x W x H)	300mm x 50mm x 99.5mm 11.8" x 2" x 3.9"	600mm x 50mm x 99.5mm 23.6" x 2" x 3.9"	900mm x 50mm x 99.5mm 35.4" x 2" x 3.9"	1200mm x 50mm x 99.5mm 47.2" x 2" x 3.9"
Weight	1.9kg / 4.2lbs	3.1kg/6.8lbs	4.4kg/9.7lbs	5.6kg / 12.4lbs
Weight (Panel Mount)	1.9kg / 4.2lbs	3.1kg/6.8lbs	4.4kg/9.7lbs	5.6kg / 12.4lbs
EPA	Front: 0.06 sq.ft Side: 0.45 sq.ft	Front: 0.06 sq.ft Side: 0.8 sq.ft	Front: 0.06 sq.ft Side: 0.92 sq.ft	Front: 0.06 sq.ft Side: 1.27 sq.ft
EPA (Panel Mount)	Front: 0.06 sq.ft Side: 0.32 sq.ft	Front: 0.06 sq.ft Side: 0.67 sq.ft	Front: 0.06 sq.ft Side: 1.02 sq.ft	Front: 0.06 sq.ft Side: 1.34 sq.ft
Regulatory Listing & Safety Approval	Electrical Protection Class I, cETLus, FCC, IK08			
Operating Temperature	-40°C* to +50°C / -40°F* to +122°F			
Storage Temperature	-30°C to +60°C / -22°F to +140°F			
Environment	Outdoor (IP66), suitable for coastal environments UL1598A Marine Certified			
Humidity	10-90%, non-condensing			

Electrical Specifications

Operating Voltage	120-277V AC 50 / 60Hz			
Power Consumption (W)	4 / 8 / 12 / 15	8 / 16 / 24 / 30	12 / 24 / 36 / 45	16 / 32 / 48 / 60
Lumen Maintenance	L70 @ 25°C – 100,000 hours			

System Specifications

Power Supply	AC line			
Control	DMX/RDM RDM Personalities ¹ : RGBW equal current mode, RGBW White balance mode (Default, RGBW40 full on to 6500K), Dynamic boost mode, 16-Bit			
Addressing Options	Auto-addressing ON or Auto-addressing OFF			

*: Rated operating temperatures are the absolute min/max temperatures meant to be for short periods of time. Not sustained temperatures for extended periods.

¹: RDM Personalities

- RGBW Equal Current mode: Each R, G, B, W channel is driven by the same driving current
- RGBW White Balance mode: Each R, G, B, W channel is driven by a modified driving current so that when RGBW is all on, the resulted white is balanced to a defined CCT. In the case of Cove Light Plus standard RGBW30, when 4 channels are turned on with the same DIMX value, the resulted White color is balanced to an approximate 4000K CCT.
- Dynamic Boost mode: In applications where not all channels of a fixture are used, a portion of the unused channels' power would be redirected to the channel(s) that is(are) in used to boost the light output. For a RGBW fixture, depending on whether 1, 2 or 3 channels are in used, the redirected power would vary, and in the case that all 4 channels are used, there will be no boost and act like in the Equal Current model

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.

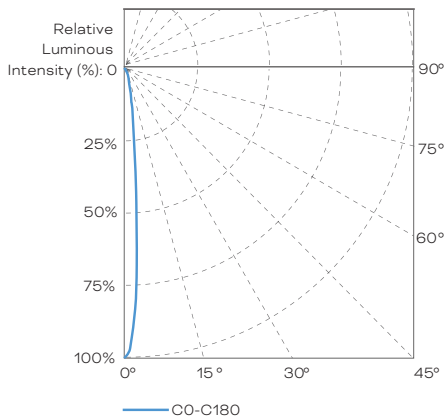
As with all electronic devices, LED output degrades over time – a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicated function of 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.

This product contains a light source of energy efficiency class G to Regulation (EU) No 2019/2015.
Lumen measurement complies with LM-79-08 standard.
Lumen maintenance is calculated based on LM-80 compliant measurement.

Source Specifications

Length Option	300mm [1ft]	600mm [2ft]	900mm [3ft]	1200mm [4ft]
Source	RGBW Discrete (D) LED 12 pcs 3R+3G+3B+3W	RGBW Discrete (D) LED 24 pcs 6R+6G+6B+6W	RGBW Discrete (D) LED 36 pcs 9R+9G+9B+9W	RGBW Discrete (D) LED 48 pcs 12R+12G+12B+12W
Optics	10°			

Candela Distribution



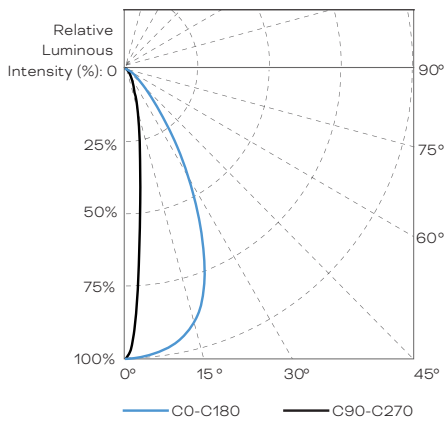
Light Output

		Color	Luminous Flux (lm)	Center Intensity (cd)	Efficacy (lm/W)
300mm [1ft]	4W	RGBW40 (Full On)	136.2	2482	34.0
	8W		302.1	5506	37.8
	12W		470.9	8583	39.2
	15W		600.0	10937	40.0
600mm [2ft]	8W	RGBW40 (Full On)	314.2	5728	39.3
	16W		697.1	12707	43.6
	24W		1086.6	19807	45.3
	30W		1384.6	25239	46.2
900mm [3ft]	12W	RGBW40 (Full On)	471.8	8600	39.3
	24W		1046.7	19080	43.6
	36W		1631.6	29741	45.3
	45W		2079.0	37897	46.2
1200mm [4ft]	16W	RGBW40 (Full On)	640.0	11665	40.0
	32W		1419.8	25880	44.4
	48W		2213.1	40341	46.1
	60W		2820.0	51403	47.0
Luminaire setting: Dynamic Boost mode.					

Source Specifications

Length Option	300mm [1ft]	600mm [2ft]	900mm [3ft]	1200mm [4ft]
Source	RGBW Discrete (D) LED 12 pcs 3R+3G+3B+3W	RGBW Discrete (D) LED 24 pcs 6R+6G+6B+6W	RGBW Discrete (D) LED 36 pcs 9R+9G+9B+9W	RGBW Discrete (D) LED 48 pcs 12R+12G+12B+12W
Optics	60° x 10° H V			

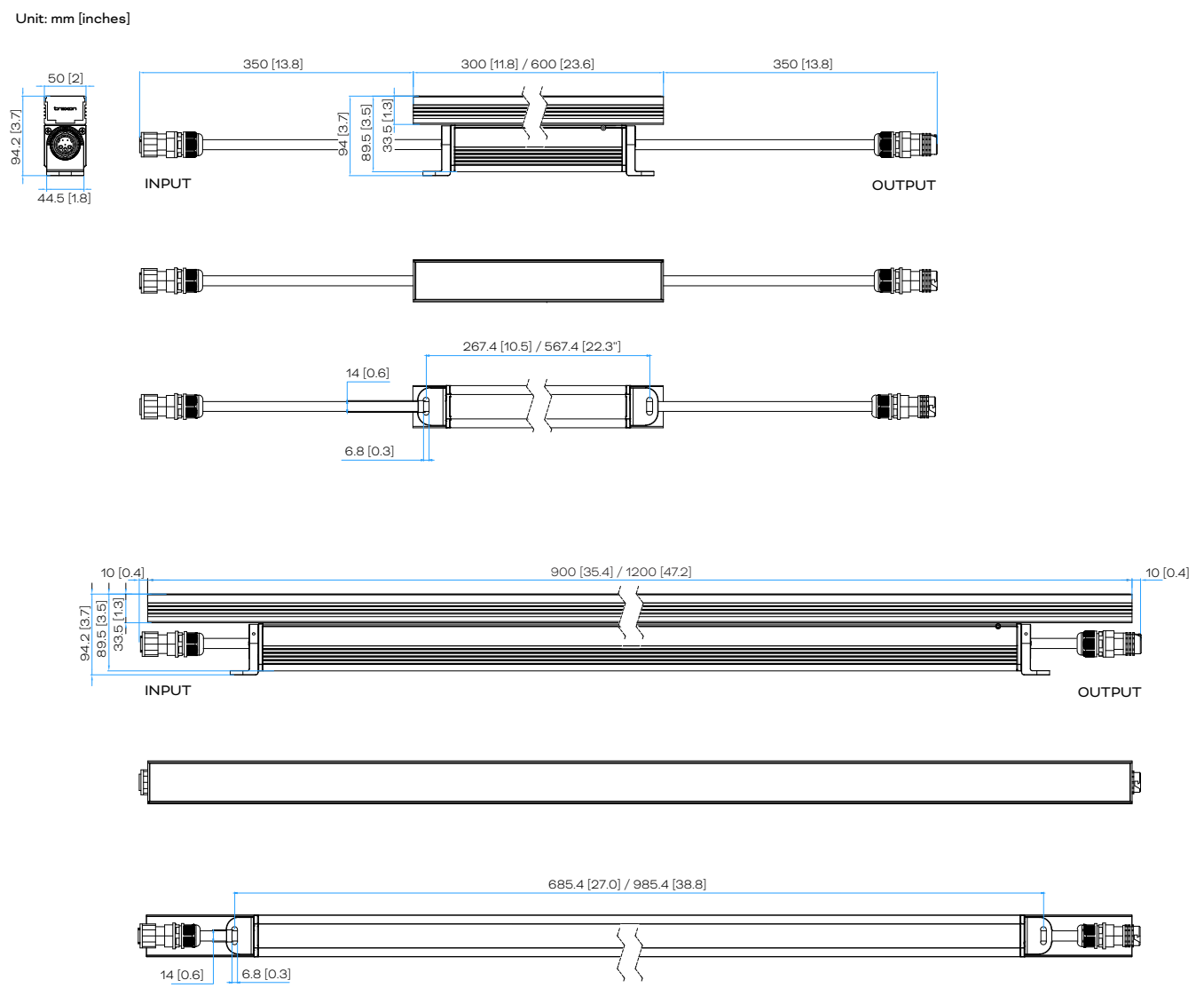
Candela Distribution



Light Output

Color			Luminous Flux (lm)	Center Intensity (cd)	Efficacy (lm/W)
300mm [1ft]	4W	RGBW40 (Full On)	130.3	460	32.6
	8W		289.0	1020	36.1
	12W		450.5	1590	37.5
	15W		574.0	2026	38.3
600mm [2ft]	8W	RGBW40 (Full On)	300.6	1061	37.6
	16W		666.9	2354	41.7
	24W		1039.6	3669	43.3
	30W		1324.7	4675	44.2
900mm [3ft]	12W	RGBW40 (Full On)	451.4	1593	37.6
	24W		1001.4	3534	41.7
	36W		1561.0	5509	43.4
	45W		1989.0	7019	44.2
1200mm [4ft]	16W	RGBW40 (Full On)	612.2	2161	38.3
	32W		1358.3	4793	42.4
	48W		2117.3	7472	44.1
	60W		2697.9	9521	45.0
Luminaire setting: Dynamic Boost mode.					

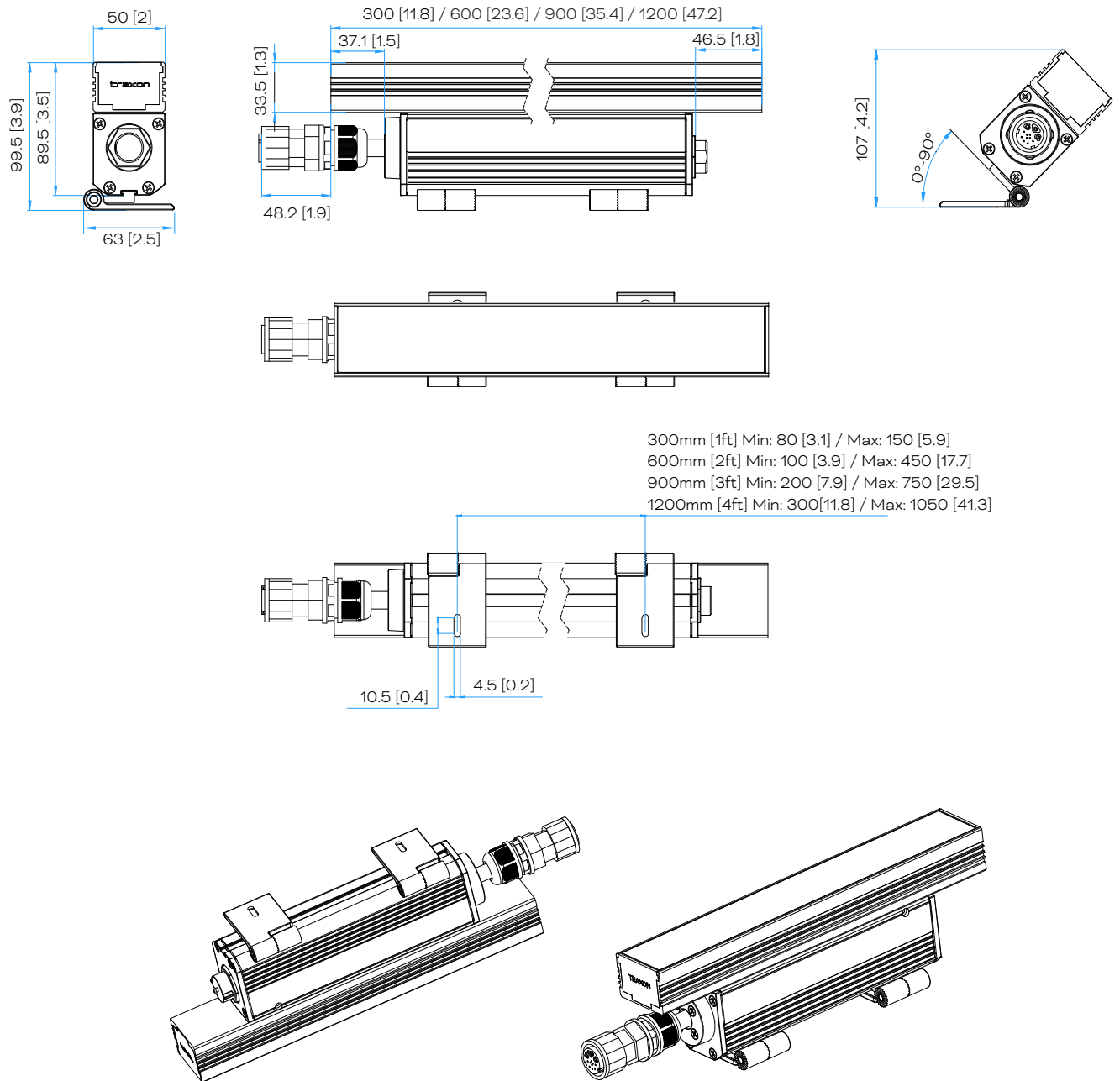
Fixture



NOTE: Please see CAD files for additional dimensional data.

Panel Mount Option

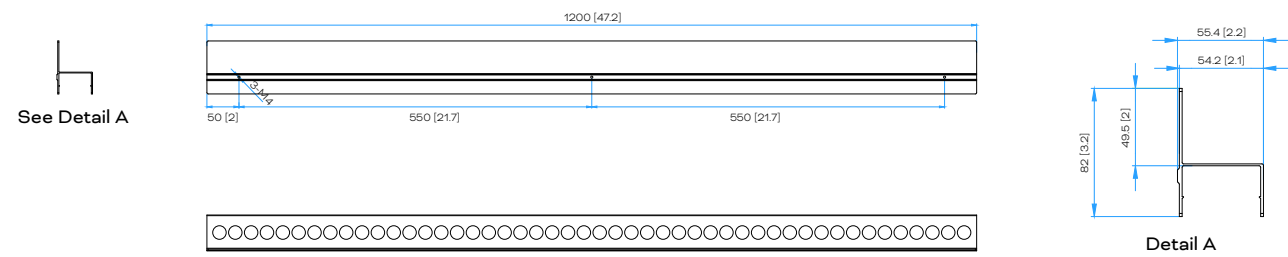
Unit: mm [inches]



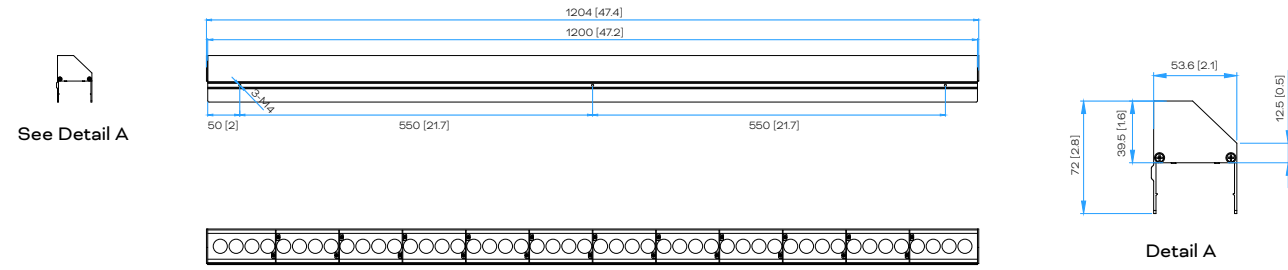
Optical Accessories

Unit: mm [inches]

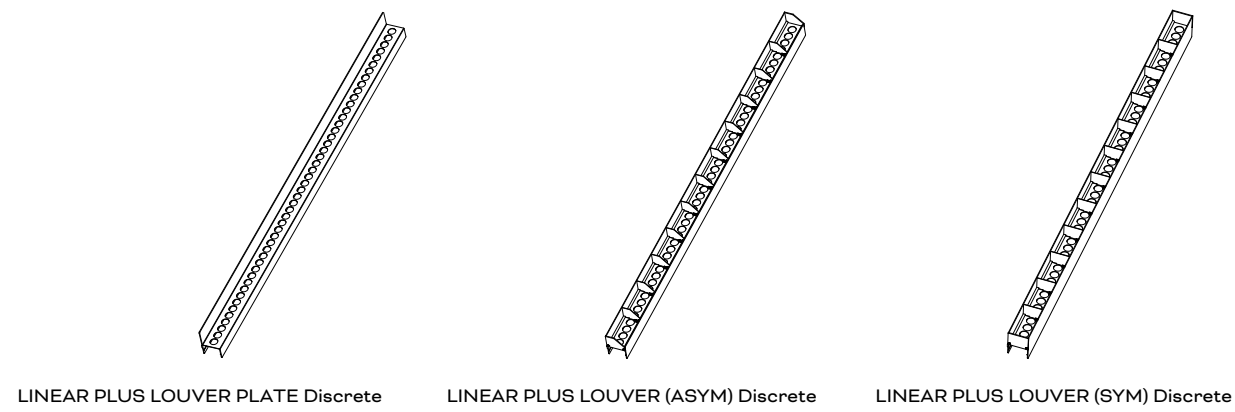
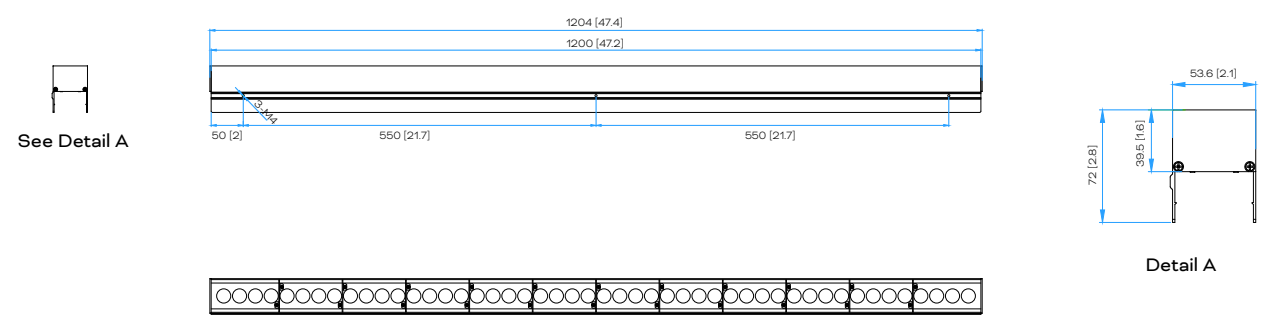
LINEAR PLUS LOUVER PLATE Discrete



LINEAR PLUS LOUVER (ASYM) Discrete



LINEAR PLUS LOUVER (SYM) Discrete



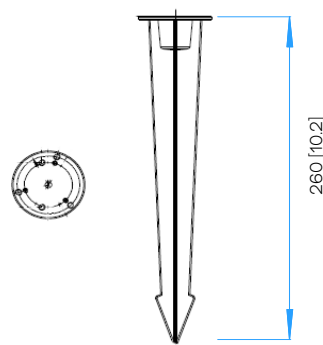
NOTE: 300mm [11.8"] / 600mm [23.6"] / 900mm [35.4"] / 1200mm [47.2"] are available.

NOTE: Please see CAD files for additional dimensional data.

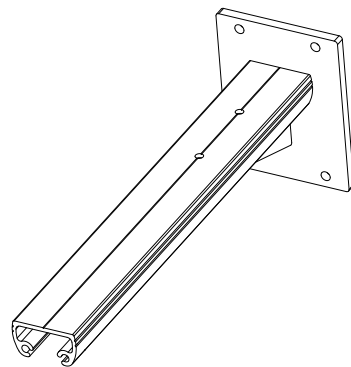
Mounting Accessories

LINEAR PLUS STAKE KIT (1 PC) (DA25103496855)

Unit: mm [inches]



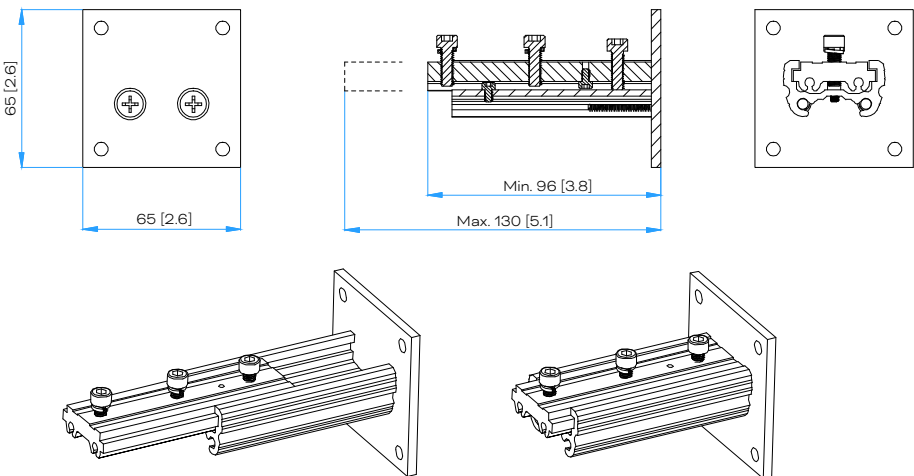
LINEAR PLUS WALL MOUNT ARM 300 / 600 / 900 (1 PC) (DA25103496555 / DA25103496655 / DA25103496755)



For the Linear Wall Mount Arm: Length options include 300mm (11.81") / 600mm (23.62") / 900mm (35.43")

LINEAR PLUS WALL MOUNT ARM EXTENDABLE 96-130 (1 PC) (DA25103496455)

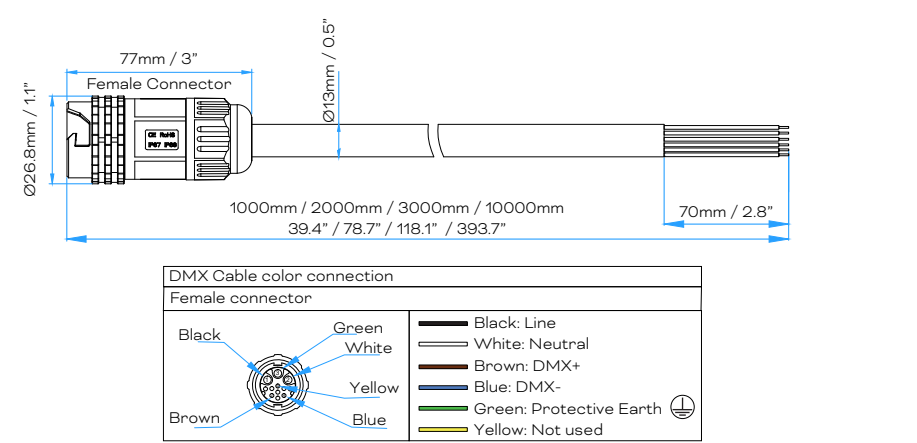
Unit: mm [inches]



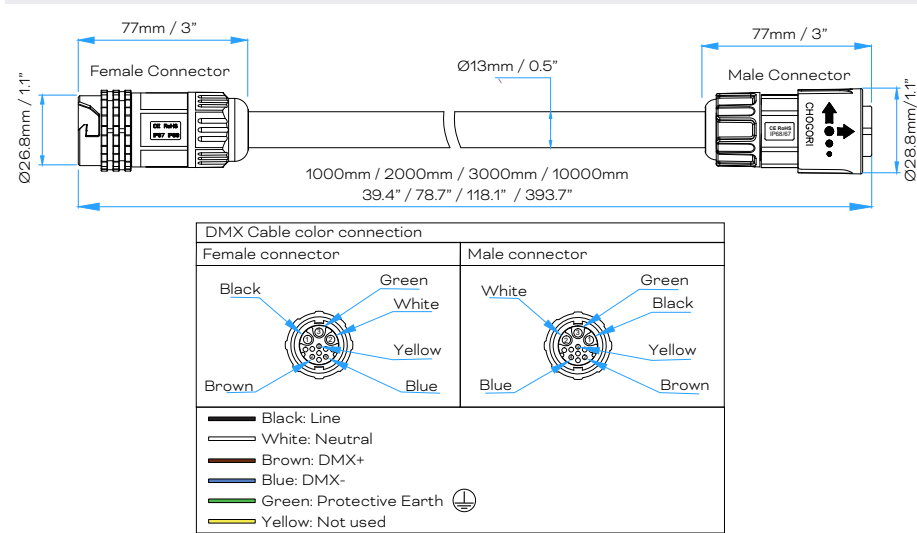
NOTE: Please see CAD files for additional dimensional data.

Connection Accessories

DMX Starter Cable

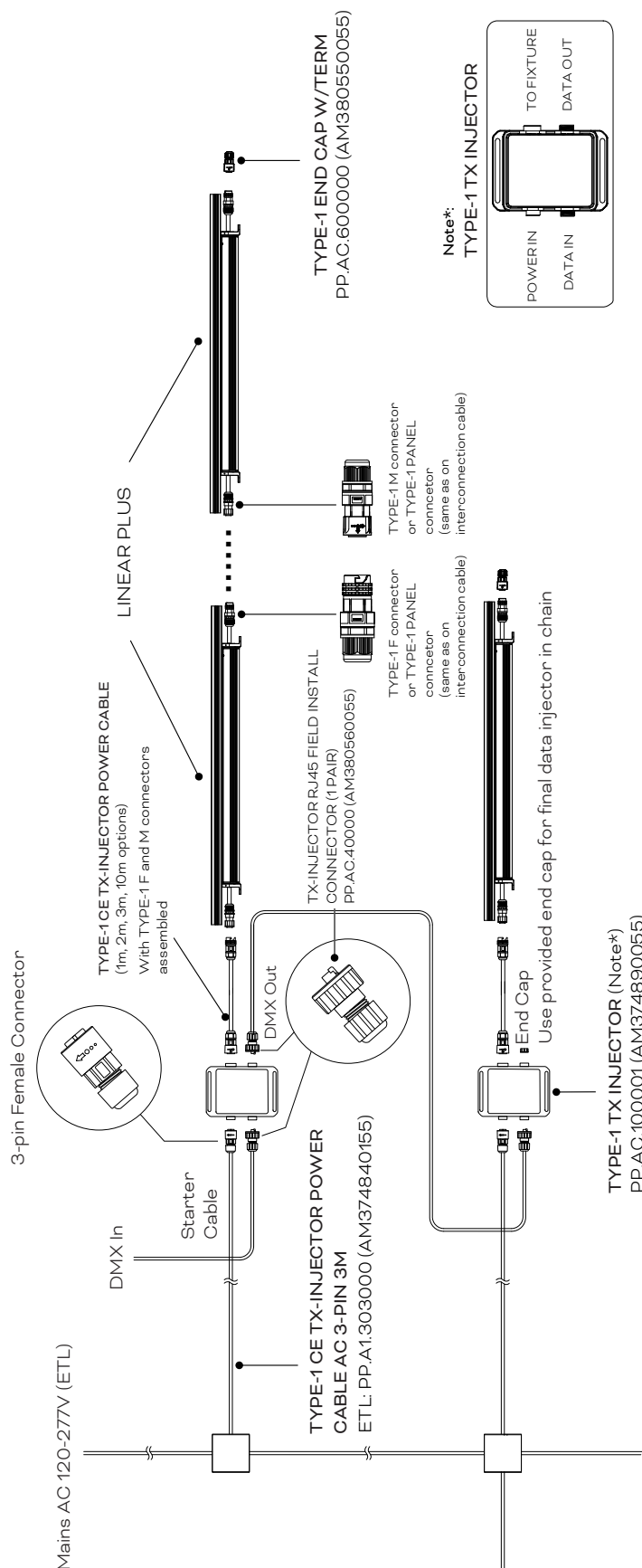


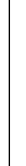
DMX Interconnection Cable



NOTE: Please see CAD files for additional dimensional data.

Fixtures with TYPE-1 connector - use with TYPE-1 Injector only



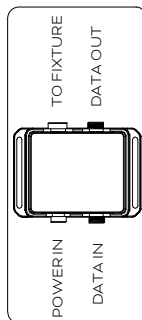
DMX Cable color connection	
Female connector	 Black: Line White: Neutral Brown: DMX+ Blue: DMX- Green: Protective Earth Yellow: Not used 

Maximum Number of Fixture per Chain					
	Length	Wattage	120V AC	220V AC	277V AC
10' Chain	300mm [1ft]	15W	48	92	118
	600mm [2ft]	30W	32	62	80
	900mm [3ft]	45W	25	49	62
12' Chain	1200mm [4ft]	60W	21	41	52

Maximum number of fixtures is based on minimal interconnection lengths fixture to fixture. Actual number of fixtures is dependent on cable interconnection lengths. The number of fixtures will reduce if longer cable lengths are used. Please consult regional sales office to confirm maximums.

DMX Cable color connection	
Female connector	Male connector
 Black: Line White: Neutral Brown: DMX+ Blue: DMX- Green: Protective Earth Yellow: Not used	

Note*:
TYPE-1 TX INJECTOR



Model Number Builder

LI.	PL.	1	NN	N	N	1	N	N	1	2	N	N	N	1	00
Housing			Power per 0.3m (1ft)	LED**	CCT***	CRI	Optics/Beam	Length	Control	Approbation	Color Finish	Pixel*	Cable/Connector		
			04 - 4W	2 - RGBW (D)	3 - 3000K	1 - Default	1 - 10°	1 - 300mm (1ft)	1 - DMX/RDM	2 - ETL	0 - TX Signature Gray	1 - 1PXL/fixture	1 - Type 1		
			08 - 8W	E - RGBA (D)	5 - 4000K		7 - 40°	2 - 600mm (2ft)			1 - Gray	2 - 2PXL/fixture	3 - Type 1 Panel		
			12 - 12W				A - 105°	3 - 900mm (3ft)			2 - Black	3 - 3PXL/fixture			
			15 - 15W				B - 60°x10°	4 - 1200mm (4ft)			3 - White	4 - 4PXL/fixture			
							D - 60°x30°								

* Standard Pixel: 300mm fixture - 1PXL, 600mm fixture - 2PXL, 900mm - 3PXL, 1200mm fixture - 4 PXL.
** RGBW (D) = RGBW Discrete LED.
*** CCT 3000K is on demand.

EXAMPLE	LINEAR PLUS 60W RGBW30(D) 10° 1200 ETL 4PXL (OC) Model Number: LI.PL.1152311412041100														
LI.	PL.	1	15	2	3	1	1	4	1	2	0	4	1	1	00

Project Model Number

CL.	PL.	1			1				1	2				1	00
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Injector

Model No.	Description	Item Code
PP.AC.100001	TYPE-1 TX INJECTOR	AM374890055
PP.AC.100002	TYPE-1 TX INJECTOR BL	AM374900055
PP.AC.100003	TYPE-1 TX INJECTOR WT	AM374910055
PP.AC.400000	TX INJECTOR RJ45 FLD CTRS (PAIR)	AM380560055

Cable/Connector

Model No.	Description	Item Code
PP.A1.303000	TYPE-1 ETL TX-INJECTOR POWER CABLE AC 3-PIN 3M	AM374840155
KO.KA.601000	TYPE-1 ETL INTERCONNECTION CABLE AC 5-PIN 1M	AM357490055
KO.KA.602000	TYPE-1 ETL INTERCONNECTION CABLE AC 5-PIN 2M	AM357500055
KO.KA.603000	TYPE-1 ETL INTERCONNECTION CABLE AC 5-PIN 3M	AM357510055
KO.KA.610000	TYPE-1 ETL INTERCONNECTION CABLE AC 5-PIN 10M	AM357520055
CA.SC.CC201000	TYPE-1 ETL STARTER CABLE AC 5-PIN 1M	DA23100149355
CA.SC.CC202000	TYPE-1 ETL STARTER CABLE AC 5-PIN 2M	DA23100149455
CA.SC.CC203000	TYPE-1 ETL STARTER CABLE AC 5-PIN 3M	DA23100149555
CA.SC.CC210000	TYPE-1 ETL STARTER CABLE AC 5-PIN 10M	DA23100149655
PP.AC.600000	TYPE-1 END CAP W/TERM	AM380550055

Optical Accessories

Model No.	Description	Item Code
LIPL.LO-S.6L1000	LINEAR PLUS LOUVER (SYM) Discrete 300	DA25103492855
LIPL.LO-S.7L1000	LINEAR PLUS LOUVER (SYM) Discrete 600	DA25103492955
LIPL.LO-S.8L1000	LINEAR PLUS LOUVER (SYM) Discrete 900	DA25103493055
LIPL.LO-S.9L1000	LINEAR PLUS LOUVER (SYM) Discrete 1200	DA25103493155
LIPL.LO-A.6L1000	LINEAR PLUS LOUVER (ASYM) Discrete 300	DA25103493255
LIPL.LO-A.7L1000	LINEAR PLUS LOUVER (ASYM) Discrete 600	DA25103493355
LIPL.LO-A.8L1000	LINEAR PLUS LOUVER (ASYM) Discrete 900	DA25103493455
LIPL.LO-A.9L1000	LINEAR PLUS LOUVER (ASYM) Discrete 1200	DA25103493555

Optical Accessories

Model No.	Description	Item Code
LIPLLO-P.6L1000	LINEAR PLUS LOUVER PLATE Discrete 300	DA25103493655
LIPLLO-P.7L1000	LINEAR PLUS LOUVER PLATE Discrete 600	DA25103493755
LIPLLO-P.8L1000	LINEAR PLUS LOUVER PLATE Discrete 900	DA25103493855
LIPLLO-P.9L1000	LINEAR PLUS LOUVER PLATE Discrete 1200	DA25103493955

Mounting Accessories

Model No.	Description	Item Code
N/A	LINEAR PLUS WALL MOUNT ARM EXTENDABLE 96-130 (1 PC)	DA25103496455
N/A	LINEAR PLUS WALL MOUNT ARM 300 (1 PC)	DA25103496555
N/A	LINEAR PLUS WALL MOUNT ARM 600 (1 PC)	DA25103496655
N/A	LINEAR PLUS WALL MOUNT ARM 900 (1 PC)	DA25103496755
N/A	LINEAR PLUS STAKE KIT (1 PC)	DA25103496855
N/A	LINEAR PLUS CABLE CONCEALING KIT	PENDING



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