

## Allegro Tube Mono



Allegro Tube Mono is a slim linear LED tube for static white direct view accent-lighting for wall or façade applications. This new generation of the Monochrome Tube provides better performance, including brightness, efficacy and longer interconnection lengths. It is IP66-rated for exterior use and available in 260mm, 630mm, and 1240mm lengths (approximately 1ft, 2ft and 4ft respectively).



### Product Specifications

Models	260mm (24 LEDs)	630mm (60 LEDs)	1240mm (120 LEDs)
<b>Light Source</b>	High intensity SMT white LEDs		
<b>Color Temperature</b>	3000K, 4000K		
<b>Luminous Flux</b>			
<b>3000K</b>	104 lm	263 lm	517 lm
<b>4000K</b>	108 lm	278 lm	555 lm
<b>Efficacy</b>			
<b>3000K</b>	54.7 lm/W	57.1 lm/W	55.6 lm/W
<b>4000K</b>	56.8 lm/W	60.4 lm/W	59.7 lm/W
<b>Cover Lens</b>	PC Diffuser (CAST-UV protected)		
<b>Housing</b>	Aluminium housing, PC front diffuser		
<b>Dimensions (L x W x H)</b>	260mm x 17mm x 21mm 10.2" x 0.67" x 0.83"	630mm x 17mm x 21mm 24.8" x 0.67" x 0.83"	1240mm x 17mm x 21mm 48.8" x 0.67" x 0.83"
<b>Weight</b>	140g/0.3lb	305g/0.67lb	575g/1.27lb
<b>Regulatory Listing &amp; Safety Approval</b>	cETLus		
<b>Operating Temperature</b>	-30°C to +60°C / -22°F to +140°F		
<b>Storage Temperature</b>	-40°C to +70°C / -40°F to +158°F		
<b>Environment</b>	Outdoor (IP66), suitable for coastal environments		
<b>Humidity</b>	0 to 90% non-condensing		

### Electrical Specifications

<b>Input Voltage</b>	48V DC		
<b>Current Rating</b>	40mA max	96mA max	194mA max
<b>Power Consumption</b>	1.9W max.	4.6W max.	9.3W max.

### System Specifications

<b>Power / Data Interface</b>	N/A
<b>Control</b>	Optional Dimming with DMX2PWM Dimmer
<b>Power Supply</b>	LED Engine 100W 48V Outdoor
<b>Addressing Options</b>	N/A

**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.

[www.traxontechnologies.com](http://www.traxontechnologies.com)

©2020 TRAXON TECHNOLOGIES - AN OSRAM BUSINESS. ALL RIGHTS RESERVED. TRAXON™, TX CONNECT®, ARE TRADEMARKS OF TRAXON TECHNOLOGIES. U.S. PATENTS, E.U. PATENTS, JAPAN PATENTS, OTHER PATENTS PENDING. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

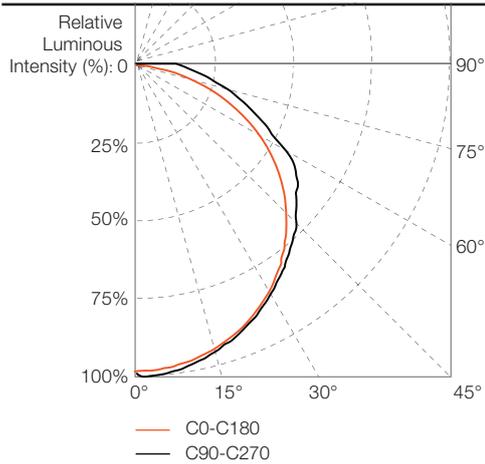
## Allegro Tube Mono

## Photometrics

### Source Specifications

**LED Source** 24 LEDs (260mm), 60 LEDs (630mm), 120 LEDs (1240mm)

### Candela Distribution



### Light Output

Color	Luminous Flux (lumens)		
	260mm	630mm	1240mm
3000K	104 lm	263 lm	517 lm
4000K	108 lm	278 lm	555 lm

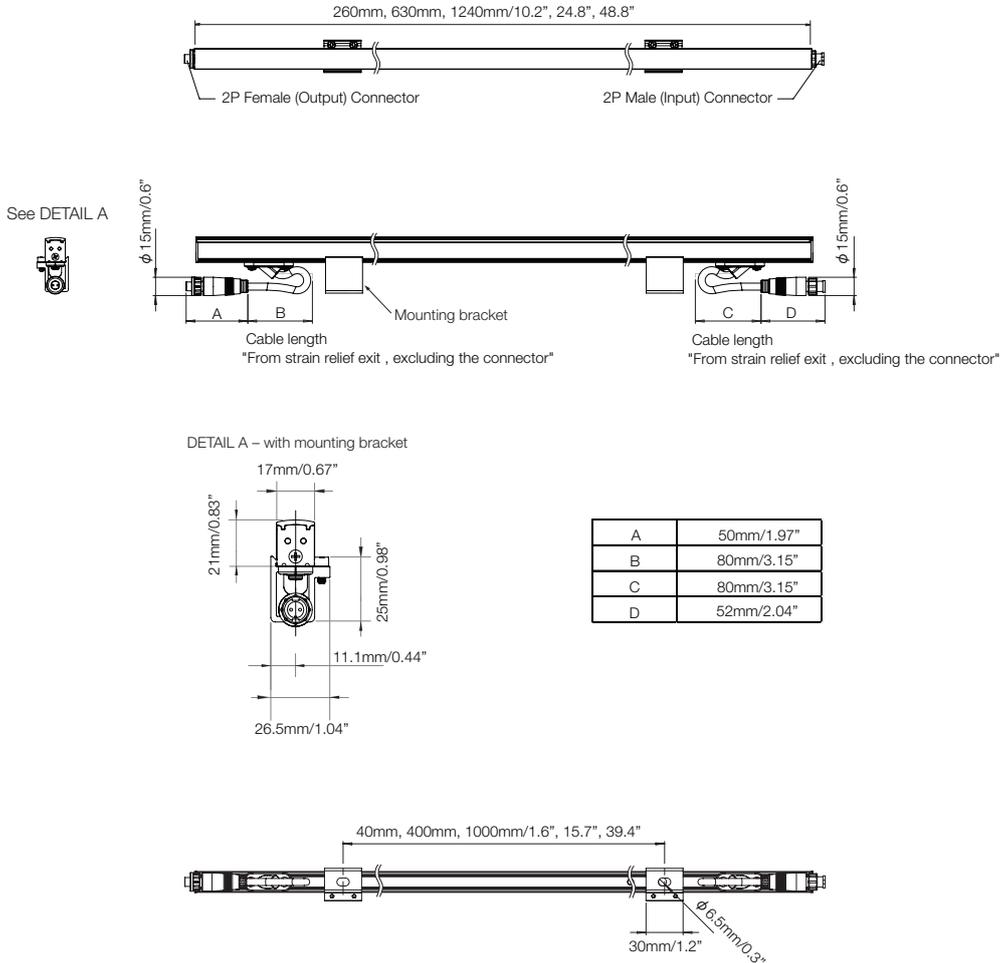
### Illuminance at a Distance

Distance (m)	Center Beam LUX/klm	Beam Width	
		V	H
0.5m	1257	1.61m	1.86m
1.0m	314	3.23m	3.71m
1.5m	140	4.84m	5.57m
2.0m	79	6.45m	7.43m
2.5m	50	8.06m	9.29m
3.0m	35	9.68m	11.14m

For feet multiply by 3.28

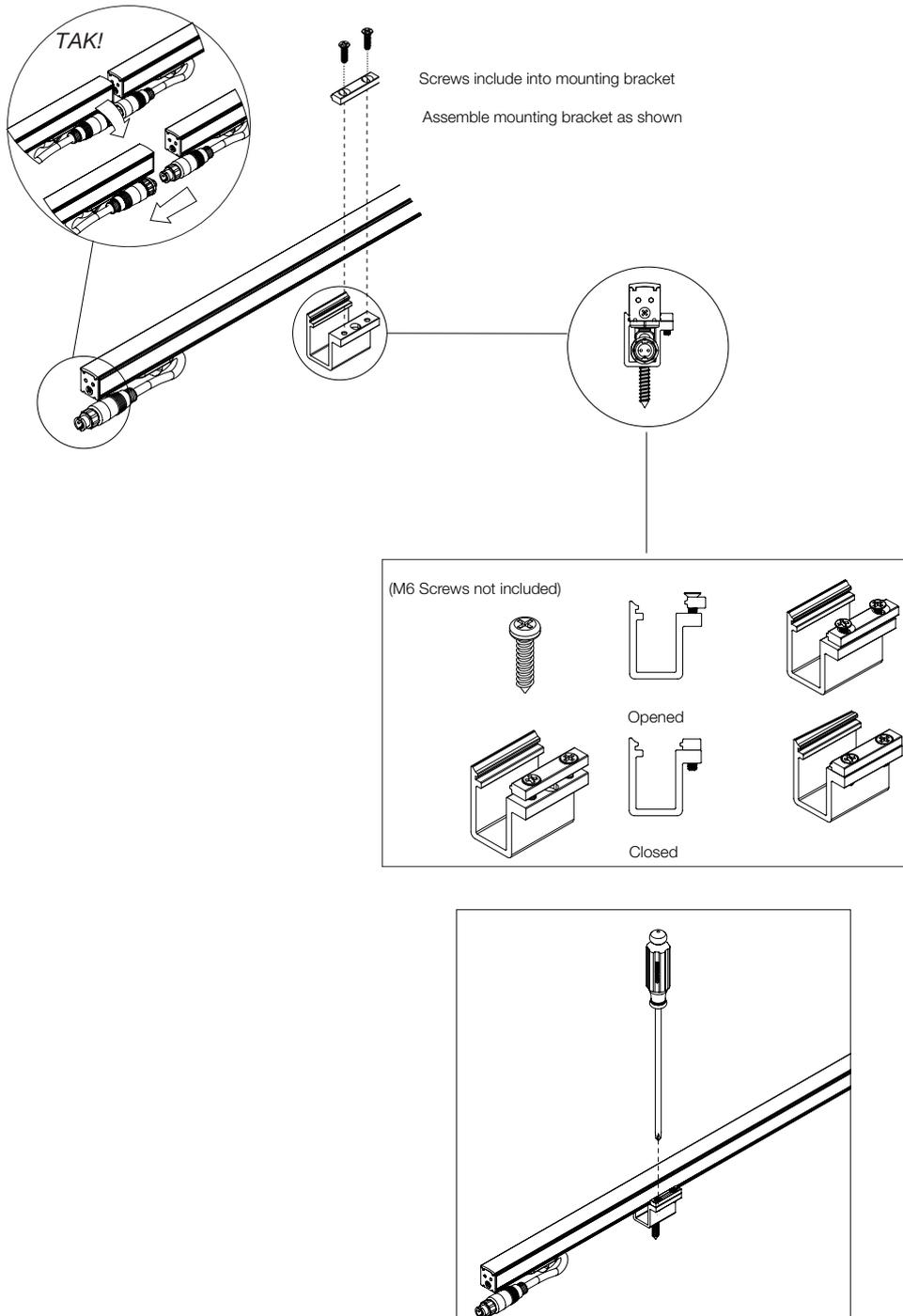
■ Vert. Spread: 123.4°  
■ Horiz. Spread: 116.4°  
 For fc divide by 10.7

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

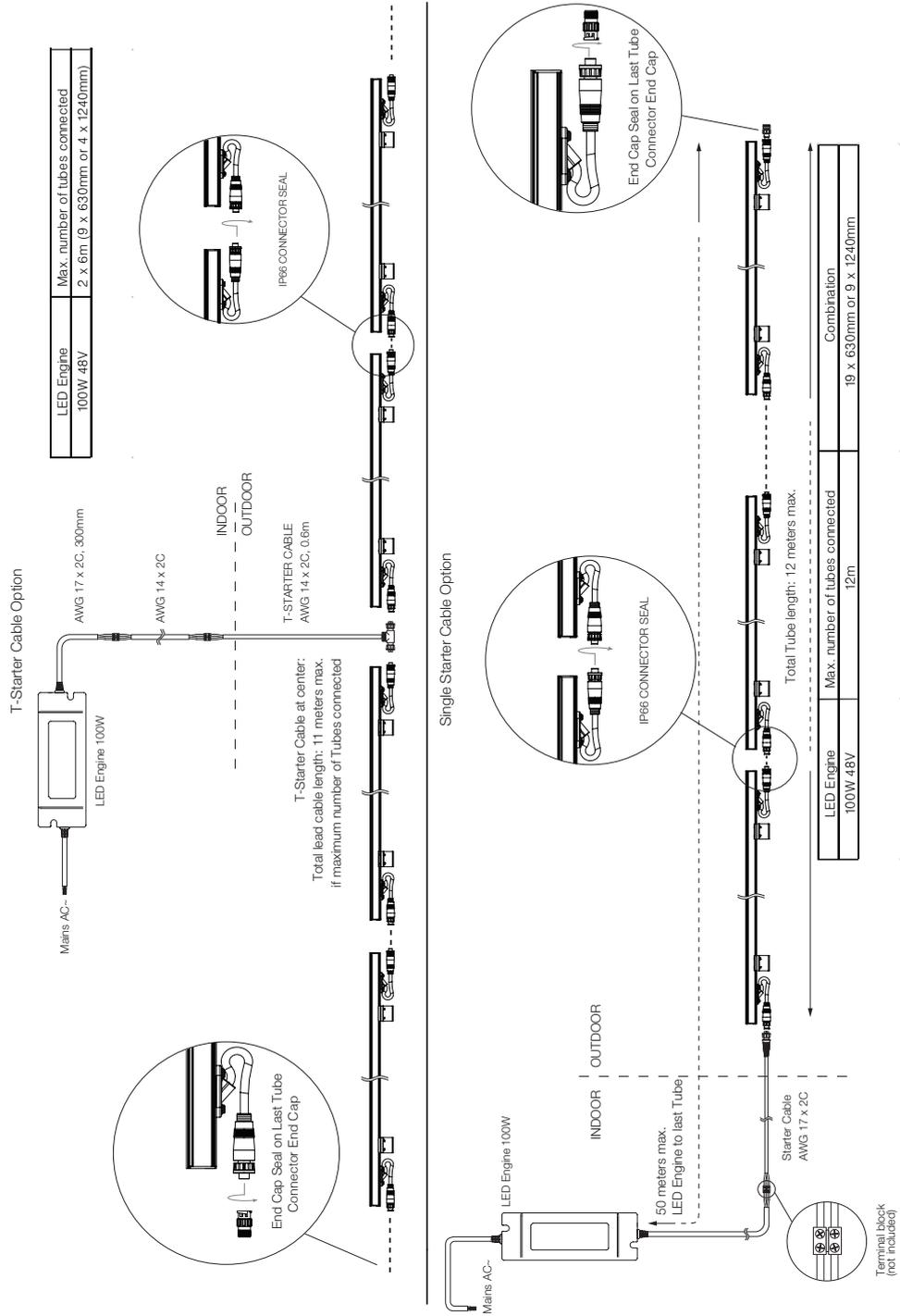


### Mounting Bracket Method

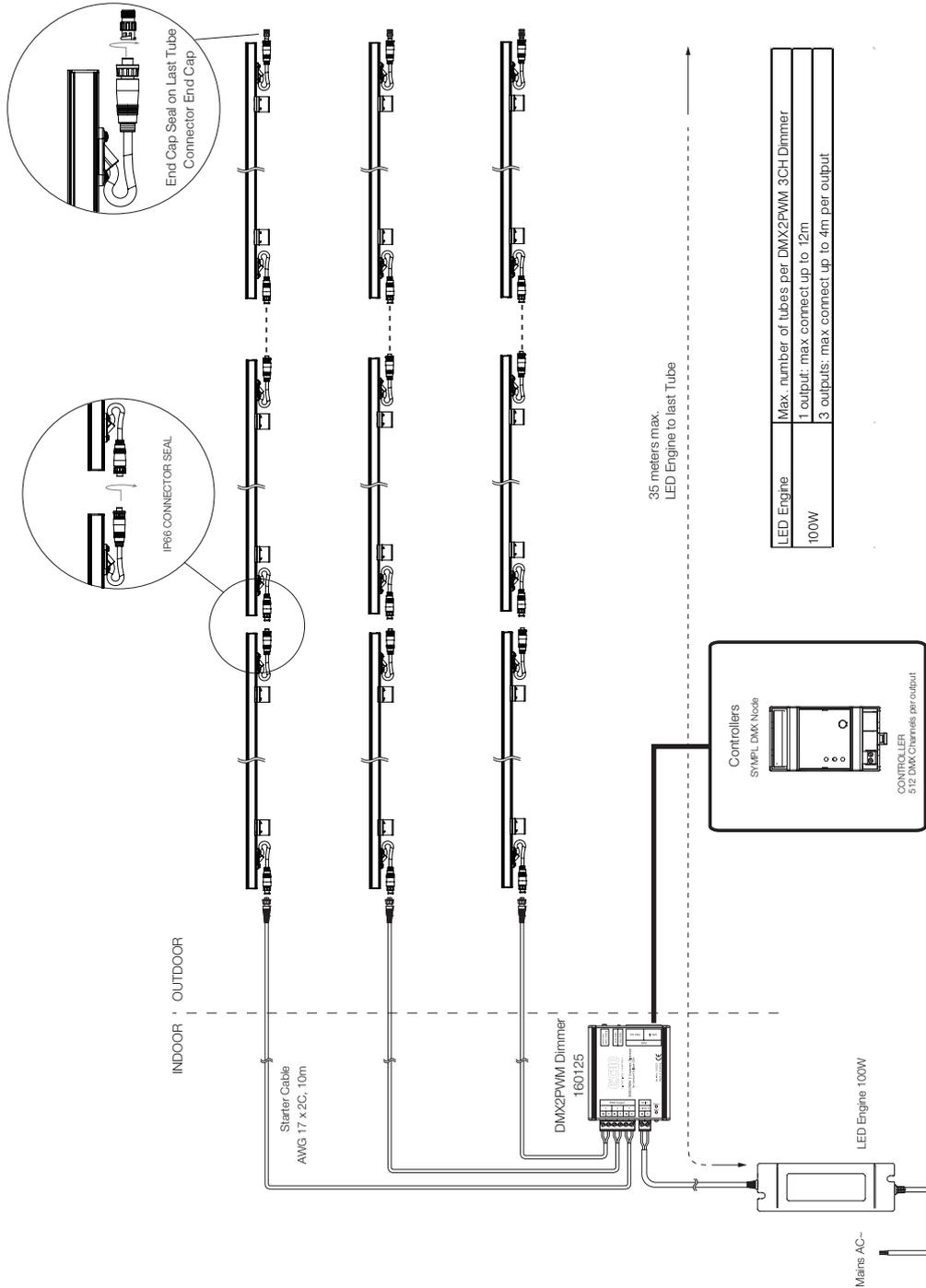
Mounting Bracket (2 pcs are included)



Typical wiring with T-Starter cable and Single Starter cable



### Allegro Tube Mono with optional DMX2PWM 3CH Dimmer



### Fixtures

Model No.	Description	Item Code
TU.AM.0330001	AL TU MONO DF 260 830 48V	AM332670055
TU.AM.0340001	AL TU MONO DF 260 840 48V	AM332680055
TU.AM.0430001	AL TU MONO DF 630 830 48V	AM332690055
TU.AM.0440001	AL TU MONO DF 630 840 48V	AM332700055
TU.AM.0530001	AL TU MONO DF 1240 830 48V	AM332710055
TU.AM.0540001	AL TU MONO DF 1240 840 48V	AM332720055

### TX Connect

Model No.	Description	Item Code
TU.AC.0700000	Allegro Tube Mono T-Starter Cable (Open Wire), 0.6m	AM333750055
TU.AC.0800000	Allegro Tube Mono Starter Cable (Open Wire), 3m	AM333760055
TU.AC.0900000	Allegro Tube Mono Starter Cable (Open Wire), 10m	AM333770055
TU.AC.1000000	Allegro Tube Mono Connector End Cap	AM333780055

### TX Control

Model No.	Description	Item Code
N/A	DMX2PWM 3CH Dimmer	AA623900135
EN.BU.0000001	Butler S2	AB436200031
N/A	SYMPL DMX Node	AB444180035

### TX Power

Model No.	Description	Item Code
HLG-100H-48	LED Engine 100W Outdoor 48V	AM338910055