Date: _____ Quantity: _____

Company: _____

Project: _____

ARCHISHAPE® Tube Ultra Slim RGB

ARCHISHAPE® Tube Ultra Slim is an IP66-rated slim LED tube for any wall or façade media lighting. Available in 300/500/1000mm lengths, the simple but robust construction allows up to maximum 14 meters of tubes to be daisy chained on a single power supply unit.
This product is intended for use in high-quality colored light applications.

Product Specifications

IP66

	300mm	500mm	1000mm
Light Source (3 in 1 LEDs)	18RGB	30RGB	60RGB
Color Range	16.7 Million additive RGB colors		
Beam Angle	100° (Direct view)		
Luminous Flux	97 lm	163 lm	331 lm
Efficacy	27 lm/W		
LED Cluster & Pixel Pitch	16.6mm		
Pixel Configuration	6 RGB LEDs per pixel		
Number of Pixel	3 pixels	5 pixels	10 pixels
Housing	Aluminium housing		
Adjustment Options	Fixed, non-adjustable		
Dimensions (W x H)	15.5 x 17.5mm, 35 x 37.6mm (mounting bracket included)		
Dimensions (L)	300mm	500mm	1000mm
Weight	0.18kg	0.3kg	0.5kg
Safety Approval	CE		
Operating Temperature	–25°C to +50°C / –13°F to +122°F		
Storage Temperature	–40°C to +70°C / –40°F to +158°F		
Environment	Outdoor, IP66		
Humidity	10-90%, non-condensing		

Electrical Specifications

Operating Voltage	48V DC		
Power Consumption	3.6W	6.2W	12W

System Specifications

Control	DMX512
Power Supply	LED Engine 240W 48V Outdoor
Addressing Options	Auto-addressing per daisy-chain

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.

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

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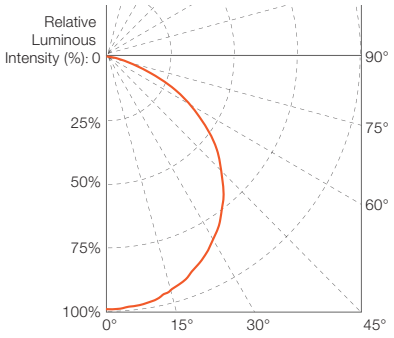
ARCHISHAPE® Tube Ultra Slim RGB

Photometrics

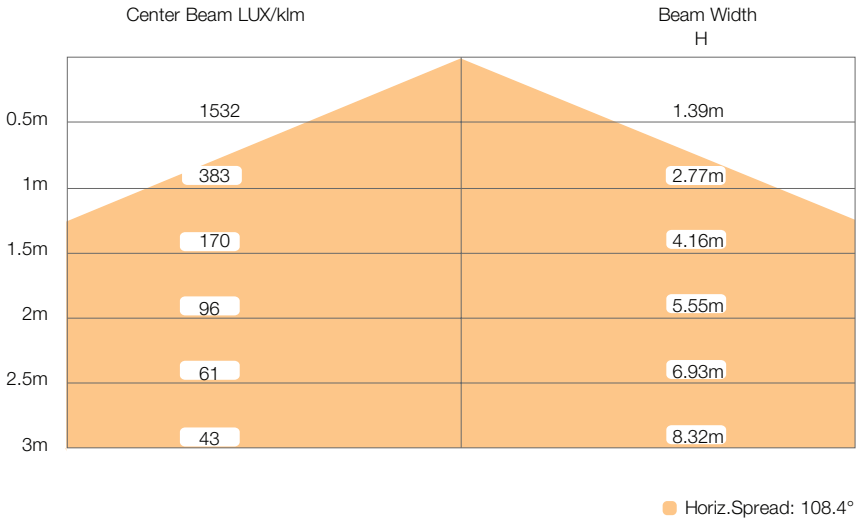
Candela Distribution



Light Output

Color	Luminous Flux (lm)
300	
RGB	97.0 lm
Red	24.6 lm
Green	55.9 lm
Blue	16.5 lm
500	
RGB	163.3 lm
Red	41.5 lm
Green	94.0 lm
Blue	27.8 lm
1000	
RGB	331.2 lm
Red	84.1 lm
Green	190.7 lm
Blue	37.2 lm

Illuminance at a Distance



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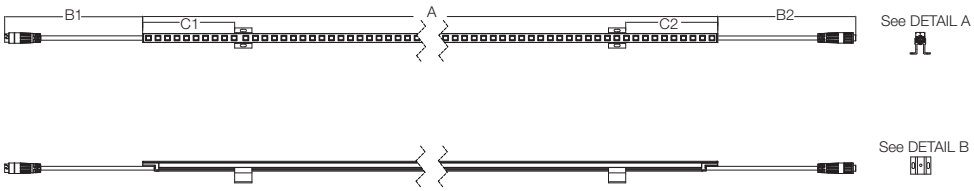
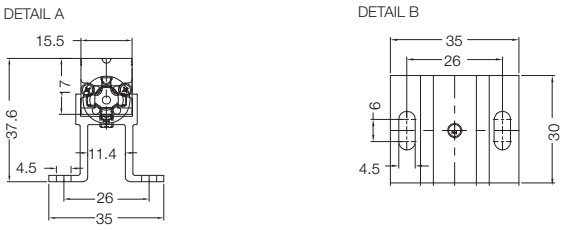
Dimensions

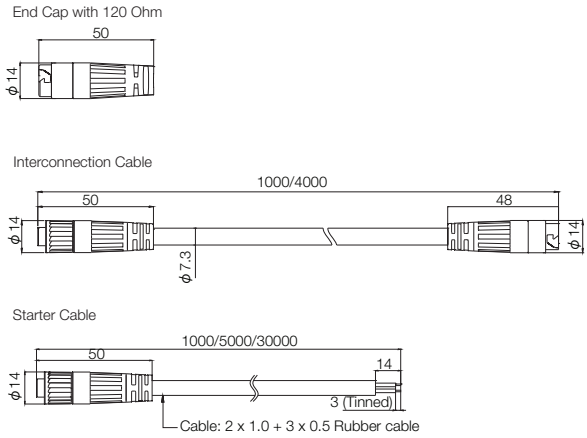
Dimensions (Unit: mm)



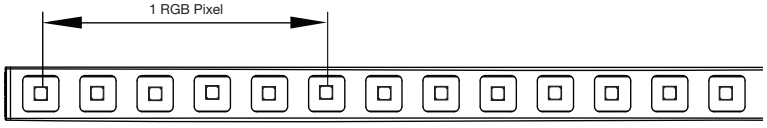
Tube length A	Cable length B1	Cable length B2	Bracket position C1	Bracket position C2
1000	200	160	160	160
500	200	160	160	160
300	200	160	80	120



Accessories Dimensions (Unit: mm)



LED Pattern



☐ RGB LED

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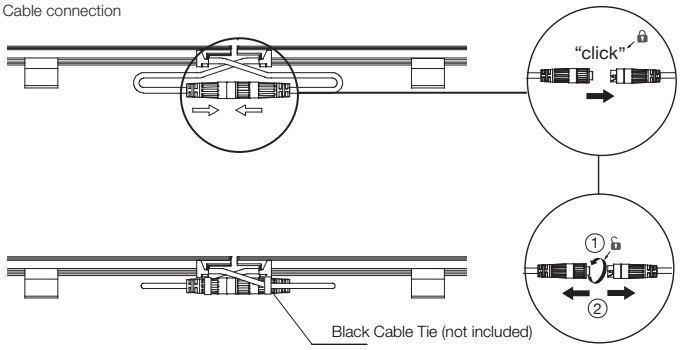
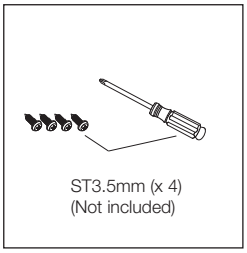
Mounting

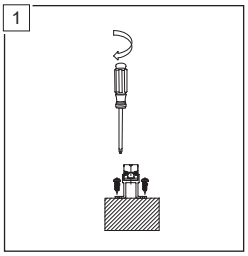
Cable connection

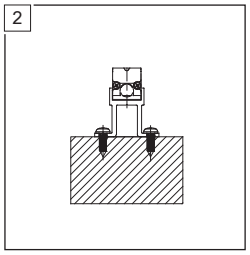


If you do not hear "click", rotate the spring loaded lock nut manually (in opposite direction to loosening to ensure that the connectors are properly mated and tightened.

Bracket Mounting

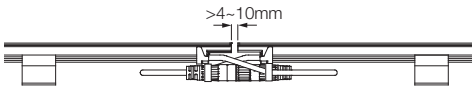




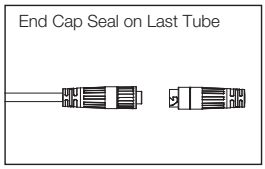


Tube-to-Tube Clearance

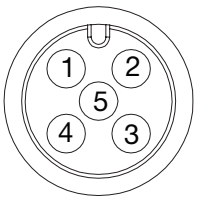
To maintain consistent LED pitch and to allow for thermal expansion for Tubes.



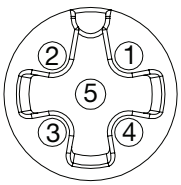
End Cap Seal on Last Tube



Connector Pin Assignment



Wire#	Description	Color
1	Signal ground	Yellow
2	DC48V+	Red
3	DMX-	Green
4	DMX+	Blue
5	DC48V-	Black



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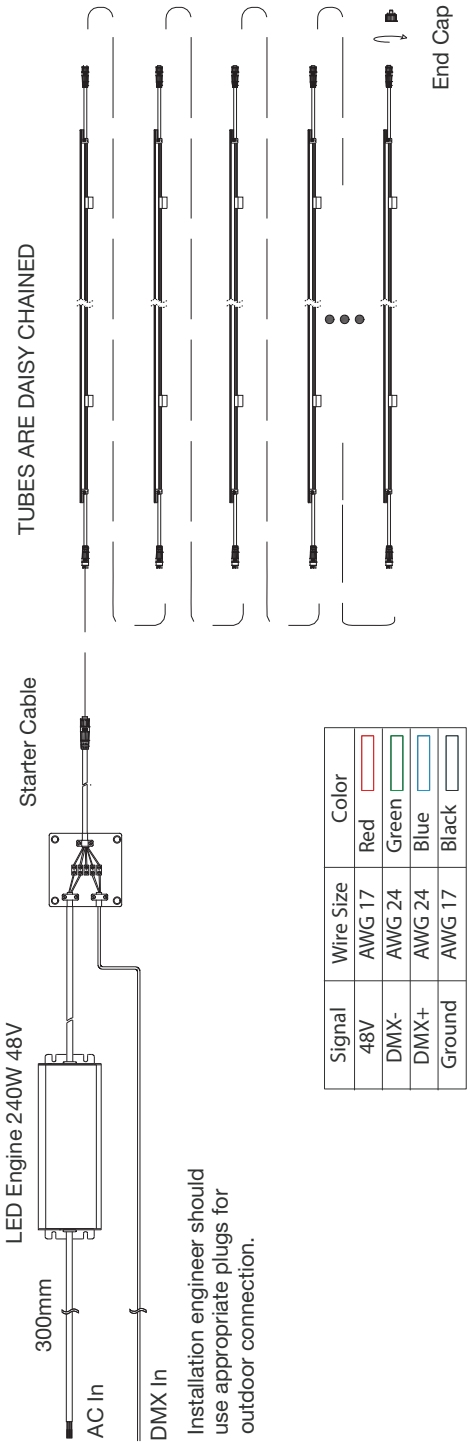
System Diagram

Daisy chain of 14m tubes



Signal	Wire Size	Color
48V	AWG 17	Red
DMX-	AWG 24	Green
DMX+	AWG 24	Blue
Ground	AWG 17	Black

This wiring diagram shows only typical connections. Actual wiring depends on LED Tube configuration and installation. Actual no. vary according to cable lengths and signal source. Please consult your local Traxon office for aid.

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ARCHISHAPE® Tube Ultra Slim RGB

Ordering

Fixtures

Model No.	Description	Item Code
TU.AS.3210100	AS TUBE RGB 1000 10PXL 48V DV	AM381840055
TU.AS.2205100	AS TUBE RGB 500 5PXL 48V DV	AM381860055
TU.AS.1203100	AS TUBE RGB 300 3PXL 48V DV	AM381870055

TX Connect

Model No.	Description	Item Code
TU.AC.1100100	AS TUBE STARTER CABLE 5-WIRE, 1M	AM382010055
TU.AC.1100200	AS TUBE STARTER CABLE 5-WIRE, 5M	AM382020055
TU.AC.1100300	AS TUBE STARTER CABLE 5-WIRE, 30M	AM382030055
TU.AC.1100600	AS INTERCONNECTION CABLE, 5-WIRE, 1M	AM382060055
TU.AC.1100700	AS INTERCONNECTION CABLE, 5-WIRE, 4M	AM382070055
TU.AC.1100400	AS TUBE END CAP WITH 120Ω TERMINATOR	AM382040055

TX Control

Model No.	Description	Item Code
N/A	LED Engine 240W 48V Outdoor	AM089330055