Colordreamer

DMX Media Bar-LX28

Static White/Tunable White/RGB/RGBW

Client	
Project	
Order Code	
QTY	

Clear Lens

Acyclic Top Lens

Opal PC Lens

Smoky PC Lens

Thank you for purchasing the Colordreamer DMX Media Bar

Our manual will describe the installation and mounting of the product as well as description of how to use it.
Please read and understand this manual in its entirety before using the product.

Product Warranty is void if product is not installed as per installation instructions and in compliance with all local and provincial codes.

SAFETY RECOMMENDATIONS AND WARNINGS

Do not make modifications or alter the product
Keep away from flammable material.
Do not hose or pressure clean.
Do not use any silicone or other chemicals on outside surface.
Do not use chemicals or abrasives to clean the luminaires as this many voids the warranty.
Ensure installation complies with local electrical rules and regulations.
Ensure mains input power is surge protected
Do not connect or disconnect the luminaire while the power is connected.
Connectors are to be kept clean and dry at all times.
Input Voltage range 15-24VDC
Once installed, all connectors are to be mated and a terminating plug or end cap is required on the last fitting of run.
When placing the luminaries in an end-to-end setup, be sure to leave a minimum gap of 5mm to allow the thermal expansion
Colordreamer Products are cooled by convection. Provide adequate ventilation by providing free air flow around.
If the ambient temperature around the luminaires exceeds 55degrees, do not use the products and turn off the system.
Power off the luminaires during service or when not in use.

Product Overview

The Colordreamer DMX Media Bar is a 28mm wide exterior DMX Direct-view Linear with Clear, black, Opal PC and Opal Acrylic Diffuser. Fixtured Mounting Brackets or customized brackets are available. User can choose auto addressing for fast installation or RDM addressing for Monitoring.

![Colordreamer logo]

Product Specification

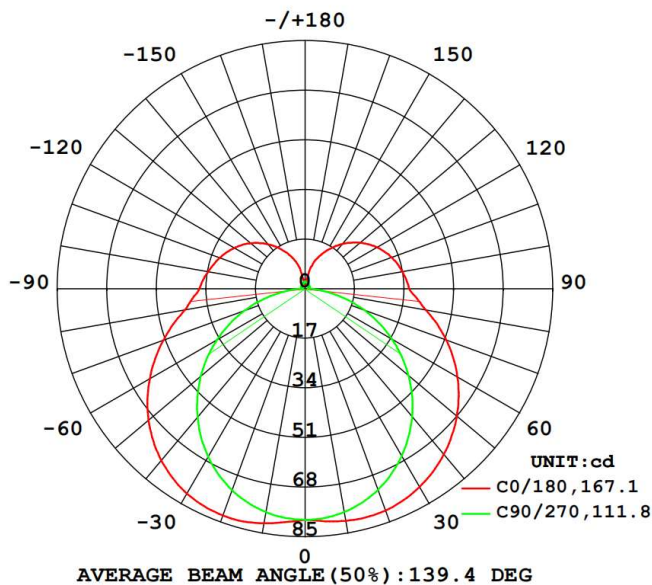| Models	LX281006001	LX2810012002	LX281006003	LX2810012004
LED				
Color	Static White	Tunable White	RGB	RGBW
Light Source	SMD 3535 LED	SMD 3535 LED	SMD 3535 LED	SMD 3535 LED
LED Source Color	W:3000K W:4000K W:5700K	W:3000K W:5700K	R:619-624nm G:520-540nm B:460-480nm	R:619-624nm G:520-540nm B:460-480nm W:3000K/4000K/5700K/
CRI for White LED	Ra>80	Ra>80	-	Ra>80
LED QTY	60LEDs/m	120LEDs/m	60LEDs/m	120LEDs/m
Performance				
Lumen Output	Update soon	Update soon	Update soon	844lumen/Clear @CREE RGBW(W3000K) 415lumen Acrylic Top @CREE RGBW(W3000K)
Efficacy	Update soon	Update soon	Update soon	85lumen/W Clear @CREE RGBW(W3000K) 41.5lumen/W Acrylic @CREE RGBW(W3000K)
Beam Angle	110° Clear Cover 165° Black Cover/Opal Cover/Acrylic Cover			
Electrical				
Input Voltage	15-24VDC	15-24VDC	15-24VDC	15-24VDC
Power Consumption	10W/Meter 3W/ft	10W/Meter 3W/ft	10W/Meter 3W/ft	10W/Meter 3W/ft
Control				
Protocols	DMX512	DMX512	DMX512	DMX512
PWM Frequency	1KHz@16-Bit Grayscale 256KHz@8-Bit Grayscale			
Addressing	Auto Addressing or RDM Manual Addressing with Colordreamer addressing device			
Pixels	20Pixels/m 10Pixels/m 5Pixels/m 1Pixel/m	10Pixels/m 5Pixels/m 1Pixel/m	20Pixels/m 10Pixels/m 5Pixels/m 1Pixel/m	10Pixels per meter 5Pixels per meter 1Pixel per meter
Physical				
Material	Aluminum 6063 with UV Protected Cover			
Finish Color	Powder coating, Black/Grey Silver or Custom RAL Color			
Cover	Clear/PC Black/PC Opal/Acrylic			
Dimensions(LXWxH) With Brackets	1000mm*39mm*61.7mm(for Clear Cover) 1000mm*28.5mm*75mm(for PMMA Dome) 1000mm*28.5mm*81mm(for PC Dome)			

Length	250mm/500mm/1000mm/305mm/610mm/915mm/1200mm
Cable Entry	Bottom Entry, Side Left Entry or Side Right Entry
Mounting	Fixed Mounting Brackets
	Contact us if you need customized brackets
Mounting Orientation	Horizontal or vertical
Packing	20pcs 1000mm per Box. Package Size 103*29.5*26cm
	20pcs 1220mm per Box. Package Size 125*29.5*26cm
Environment	
Operating Temperature	-30℃ to +50℃
Storage Temperature	-40℃ to +70℃
Humidity	0-90% non-condensing
IP Rating	Dry, Damp, Wet locations IP66
Certification and Safety	
Certification	CE/ETL
Warranty	2Years Limited Warranty from the Date of Manufacture
	Contact us if you need extended warranty

Remark: The given data of CCT, beam angles, lumen output and electrical power are typical value. Due to the tolerances of the production process and the electrical components, the values can vary up to 10%.
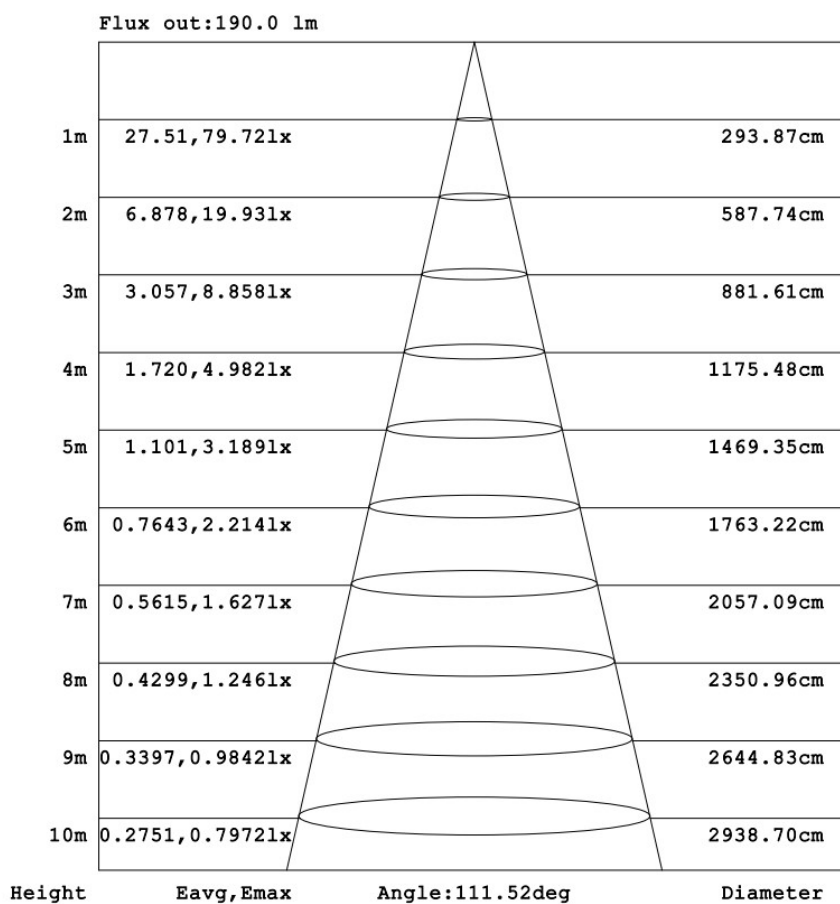
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Photometrics

Luminous Intensity Distribution Diagram
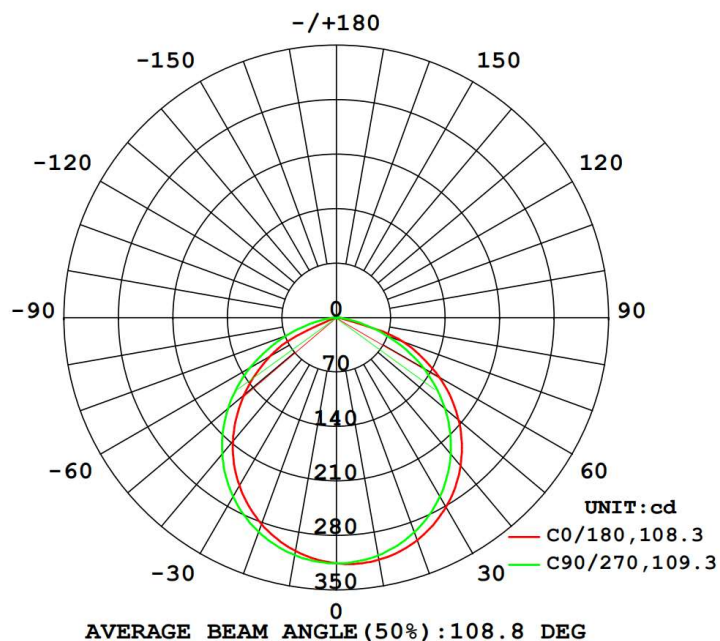LM2810012004 Acrylic Top Diffuser/CREE LED RGBW(W=3000K)


```
                        -/+180
              -150                150

        -120                          120


     -90                                  90
                          0
                         17

                         34

     -60                 51              60
                         68
                                          UNIT:cd
              -30        85        30     ——— C0/180,167.1
                          0               ——— C90/270,111.8

          AVERAGE BEAM ANGLE(50%):139.4 DEG
```

The Below curves indicate the illuminated area and the average illumination when the luminaire is at different distance
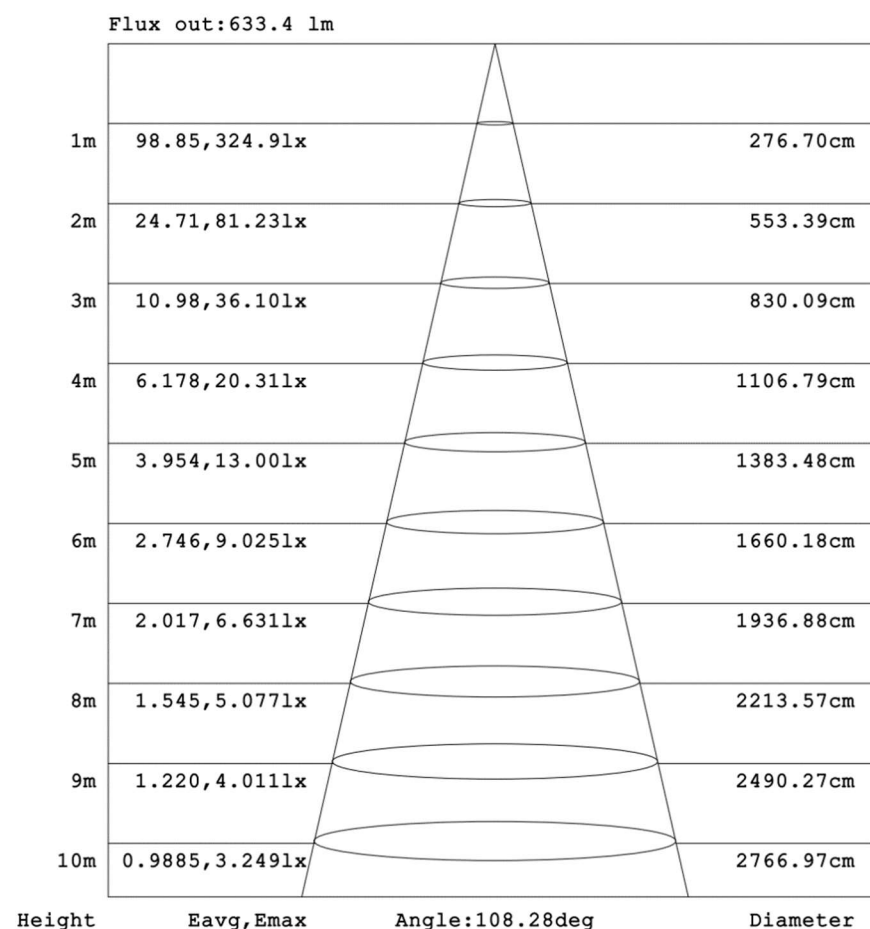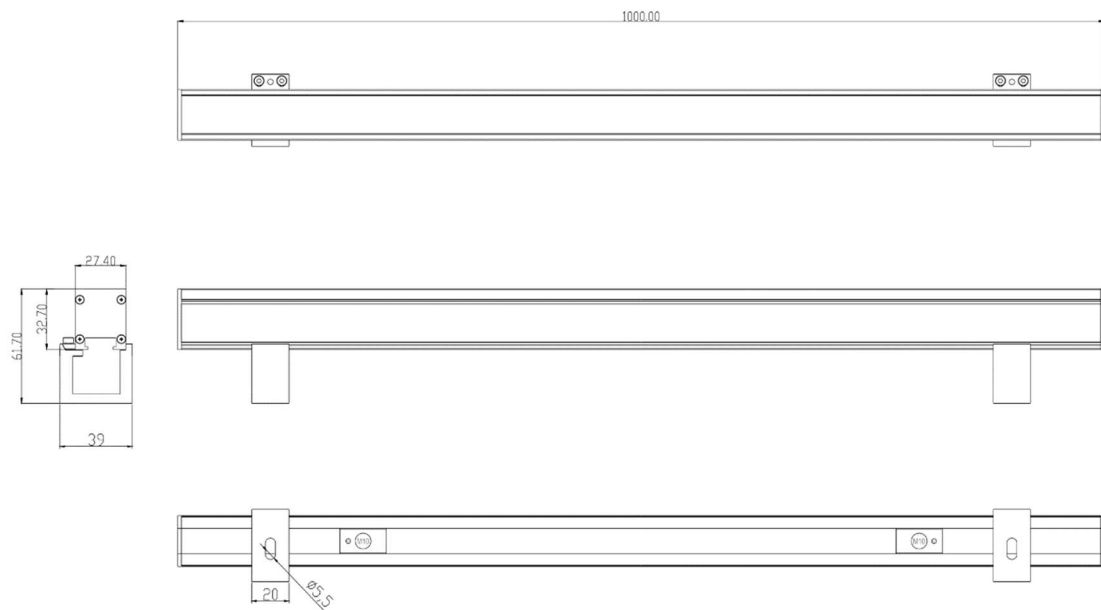

Flux out:190.0 lm

Height	Eavg,Emax		Diameter
1m	27.51,79.72lx		293.87cm
2m	6.878,19.93lx		587.74cm
3m	3.057,8.858lx		881.61cm
4m	1.720,4.982lx		1175.48cm
5m	1.101,3.189lx		1469.35cm
6m	0.7643,2.214lx		1763.22cm
7m	0.5615,1.627lx		2057.09cm
8m	0.4299,1.246lx		2350.96cm
9m	0.3397,0.9842lx		2644.83cm
10m	0.2751,0.7972lx		2938.70cm
		Angle:111.52deg	

![Colordreamer logo]

Luminous Intensity Distribution Diagram
LC2810012004 Clear Diffuser/CREE LED RGBW(W=3000K)


```
              -/+180
        -150         150
   -120                   120

-90              0              90
                70
               140
-60           210           60
              280
         -30  350   30
              0
   AVERAGE BEAM ANGLE(50%):108.8 DEG
```

UNIT:cd
— C0/180,108.3
— C90/270,109.3

The Below curves indicate the illuminated area and the average illumination when the luminaire is at different distance

Flux out:633.4 lm

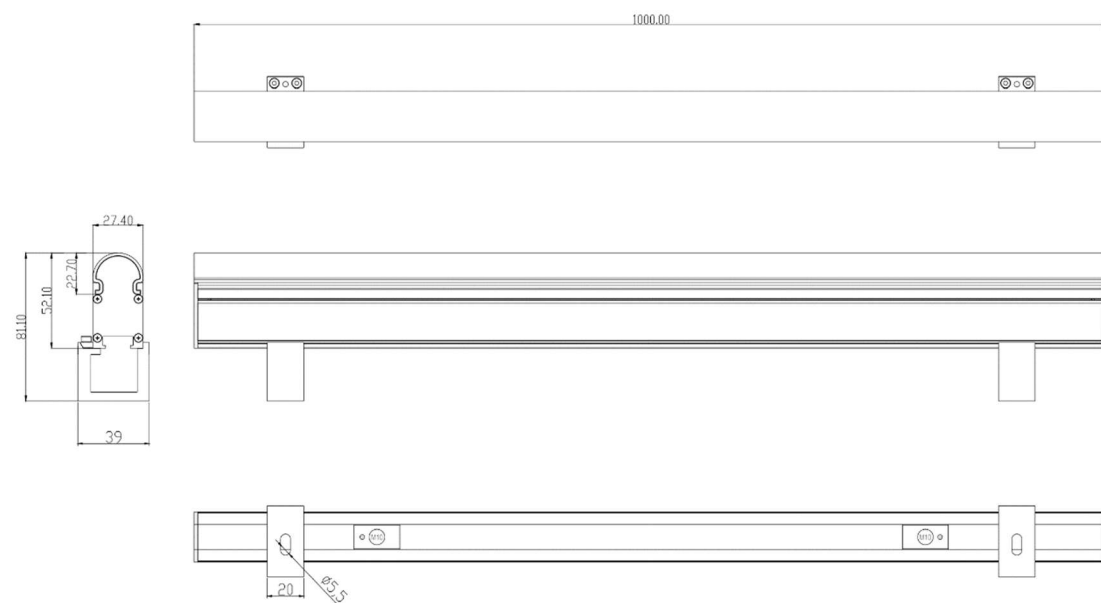| Height	Eavg,Emax	Angle:108.28deg	Diameter
1m	98.85,324.91x		276.70cm
2m	24.71,81.231x		553.39cm
3m	10.98,36.101x		830.09cm
4m	6.178,20.311x		1106.79cm
5m	3.954,13.001x		1383.48cm
6m	2.746,9.0251x		1660.18cm
7m	2.017,6.6311x		1936.88cm
8m	1.545,5.0771x		2213.57cm
9m	1.220,4.0111x		2490.27cm
10m	0.9885,3.2491x		2766.97cm

Dimension
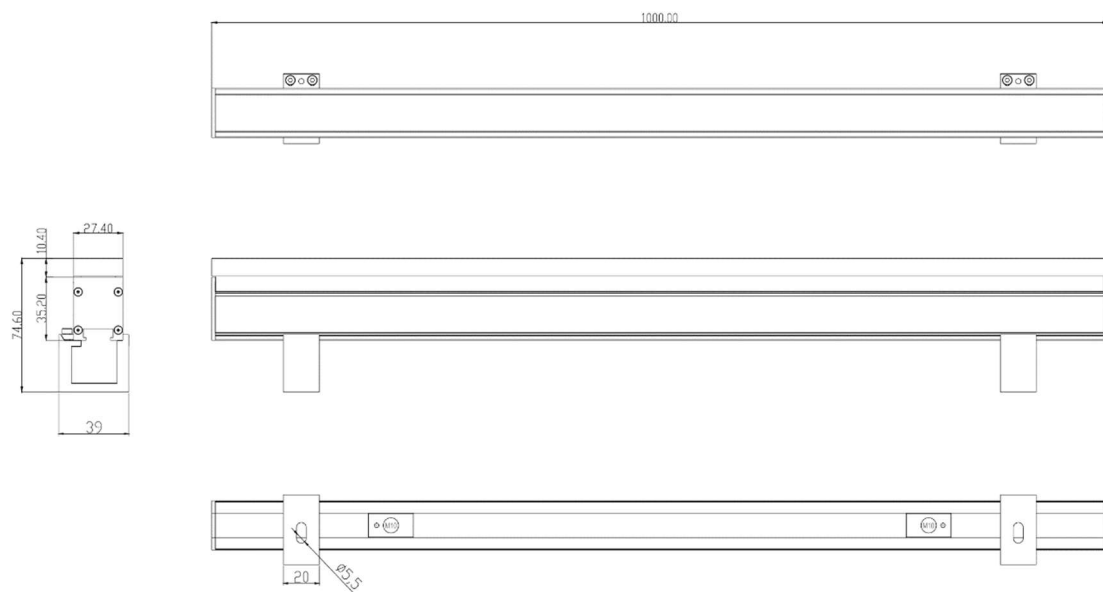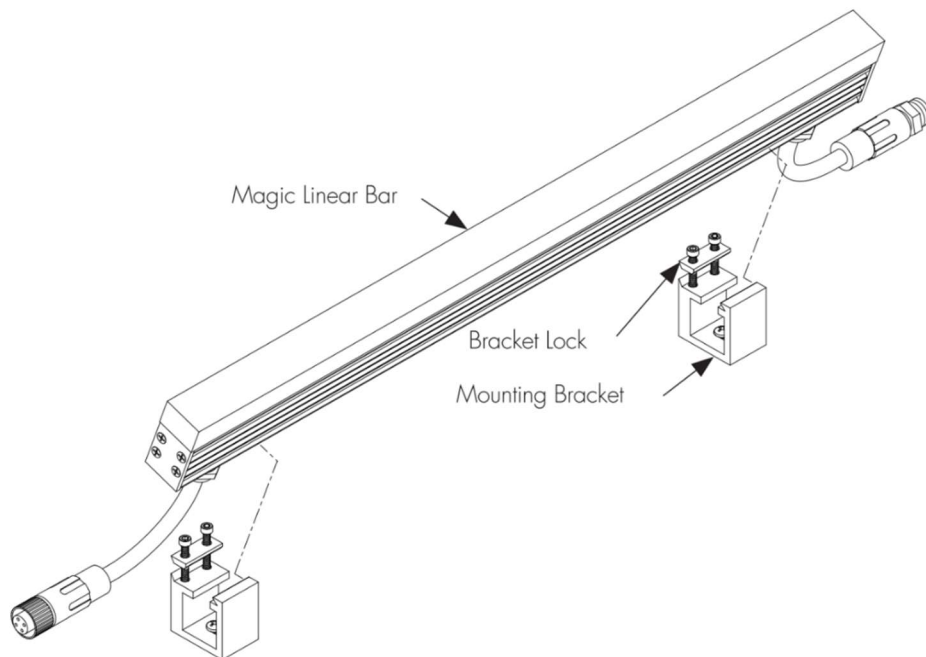
Clear Lens

PC Dome Lens (Smoky or Opal)

Mounting

Option1:

Step1: Attach brackets to the mounting surface with appropriate fasters
Step2: Loosen the two screws that secure the bracket lock on each mounting bracket.
Step3: Slide the bar into the fixed channel side of the bracket.
Step3: Rotate the DMX Media Bar down so it rests on the surface of the brackets and tighten down the bracket lock using the Hex Wrench
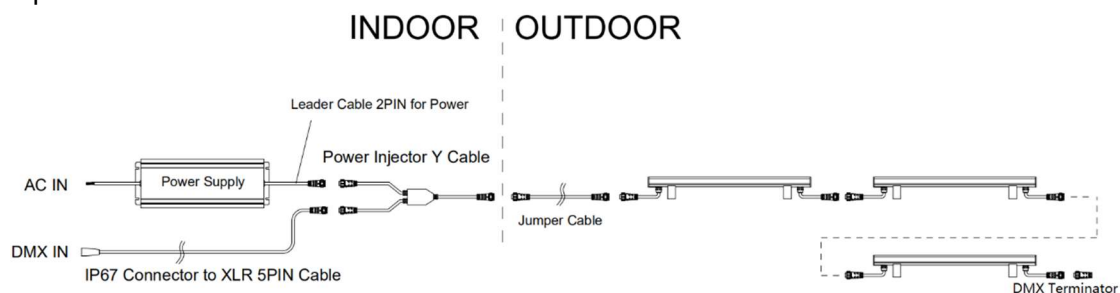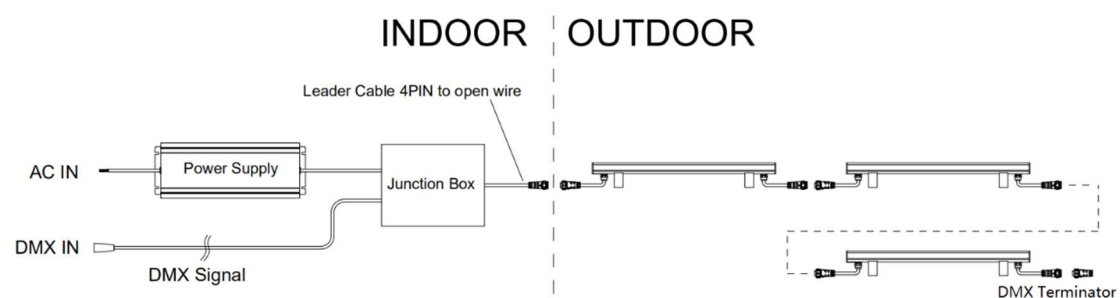
Option2:

For Truss Clamp
Bolt Size:M10
Pitch Thread:1.5

System Diagram

Option1

Option2

Wire Color and Designations

Wire Color		Description
Red		24VDC
Black		Power and Signal GND
Green		DMX+
Blue		DMX-

Maximum Circuit Loading-Single Run
Maximum Current Through cables and connectors≤5A

LED Power	Maximum Leader Cable Length from Junction Box to First Fitting	Max Daisy Chain Length with Signal Power Feed
10W per meter	20meter	12meter
12W per meter	20meter	10meter

Values are based on end to end spacing. Extended cables or jumper cables will affect loading.

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Accessories List (Need Order Separately)

Name	Order Code	Description
Leader Cable	67E2FB-20CM	IP67 Connector,20cm Long 2PIN Female to open wire
Leader Cable	67E2FB-5M	IP67 Connector,5Meter Long 2PIN Female to open wire
Leader Cable	67E4FB-20CM	IP67 Connector,20cm Long 4PIN Female to open wire
Leader Cable	67E4FB-5M	IP67 Connector,5Meter Long 4PIN Female to open wire
Jumper Cable	67E2M2F-5M	IP67 Connector,5Meter Long 2PIN Male to 5PIN Female
Jumper Cable	67E4M4F-5M	IP67 Connector,5Meter Long 4PIN Male to 4PIN Female
IP67 Connector to XLR Cable	67E4F5XM-20CM	20CM Long 4PIN IP67 Female Connector to XLR 5PIN Male Cable
IP67 Connector to XLR Cable	67E4F5XM-5M	5M Long 4PIN IP67 Female Connector to XLR 5PIN Male Cable
Power Injector Y Cable	67T4M4F2M	IP67 Connector,15CM 4PIN Male for LED;15CM 4PIN Female for LED;15CM 2PIN Male for Power
DMX Terminator	CD-DT4M	4PIN Male DMX Terminator with 120Ω Resistor Between DMX+ and DMX-
End Cap	CD-EC	End cap for female connector