Colordreamer

DMX Flex Strip Indoor or Outdoor

Project Name	
Date	
Location	
Item Code	

Thank you for purchasing the Colordreamer DMX Flex Strip!

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

SAFETY RECOMMENDATIONS AND WARNINGS

Wear anti-static gloves to handle this product.

The LED source and other components may not be mechanically stressed.

Take care to avoid damage to the conducting paths on the PCB during assembly.

Do not connect or disconnect the strip while the power is connected.

Do not connect the product to power supply when it is in the package.

Ensure installation complies with local electrical rules and regulations.

Do not modify the product.

Do not use chemicals or abrasives to clean the luminaires as this many voids the warranty.

Input Voltage range 21-24VDC

Ensure mains input power is surge protected

Bending angle cant less than 90°

Forbidden

Twist is forbidden

Correct using
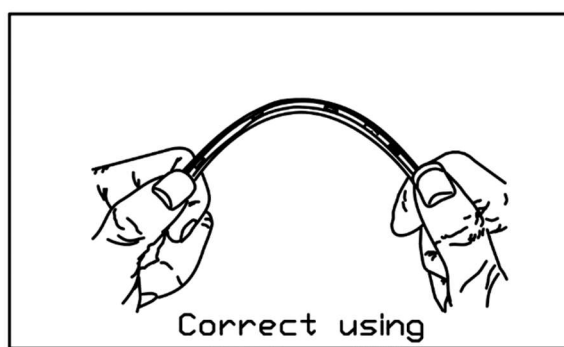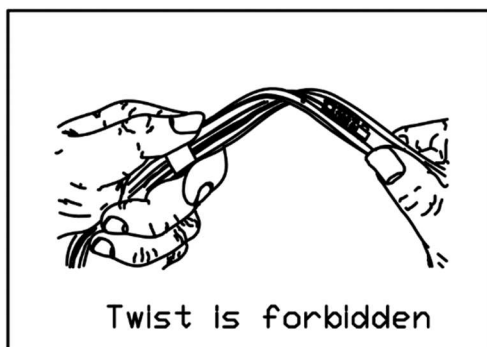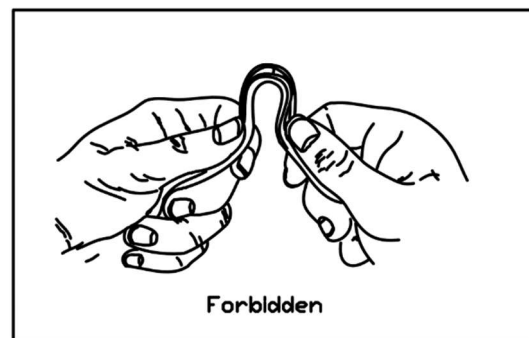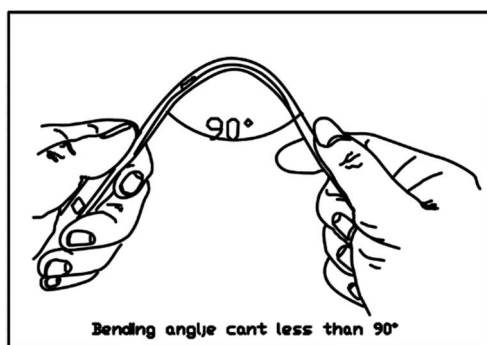
Product Overview

The Colordreamer DMX Flex Strip are flexible strips which can be controlled directly using DMX512.The strip provides flexibility to fit on any curved surface.

Product Specification

Models	DS126003	DS126004	DS146003	DS146004
LED				
Light Source	SMD RGB 5050	SMD RGBW 5050	SMD RGB 5050	SMD RGBW 5050
Color	RGB	RGBW (W:2700K W:3000K W:4000K W:6500K)	RGB	RGBW (W:2700K W:3000K W:4000K W:6500K)
CRI for White LED	-	Ra>80	-	Ra>80
LED QTY	60LEDs per meter			
Performance				
Lumen Output	530lm	830lm	480lm	750lm
Efficacy	44lm/W	46lm/W		
Beam Angle	120°			
Electrical				
Input Voltage	24VDC	24VDC	24VDC	24VDC
Power Consumption	12W per meter	16W per meter	12W per meter	16W per meter
Control				
Protocols	DMX512			
Addressing	Manual Addressing with Colordreamer addressing device			
Pixels	10pixels/m			
Pixel Pitch	100mm			
Cutting Pitch	100mm			
Physical				
Material	Copper PCB	Silicone	Copper PCB	Silicone
Finish Color	Black or White			
Dimensions(WxH)	12mm x 2mm	14mm x 5mm	12mm x 2mm	14mm x 5mm
Max.length	5m/roll			
Mounting	3M adhesive tape	Silicone Clip	3M adhesive tape	Silicone Clip
Environment				
Operating Temperature	-20℃ to +50℃	-20℃ to +50℃	-20 ℃ to +50℃	-20℃ to +50℃
Storage Temperature	-40℃ to +70℃	-40℃ to +70℃	-40 ℃ to +70℃	-40℃ to +70℃
Humidity	0-90% non-condensing	0-90% non-condensing	0-90% non-condensing	0-90% non-condensing
IP Rating	Indoor,IP20	Indoor,IP20	Outdoor,IP67	Outdoor,IP67
Certification	CE	CE	CE	CE

Photometrics

(DS126003 DMX RGB Strip)
Luminous Intensity Distribution Diagram
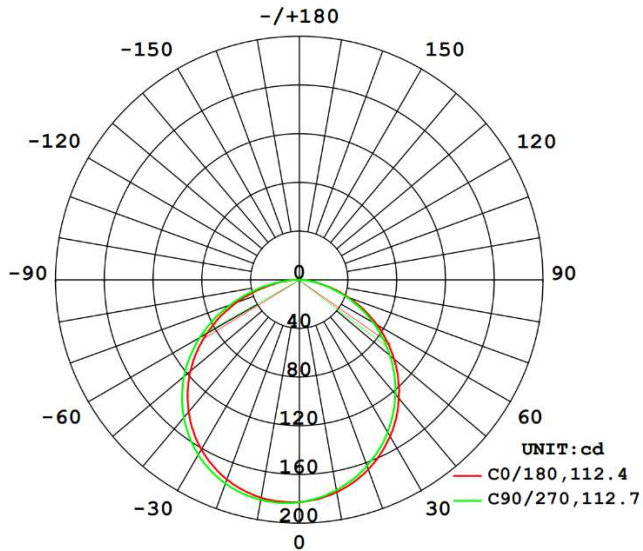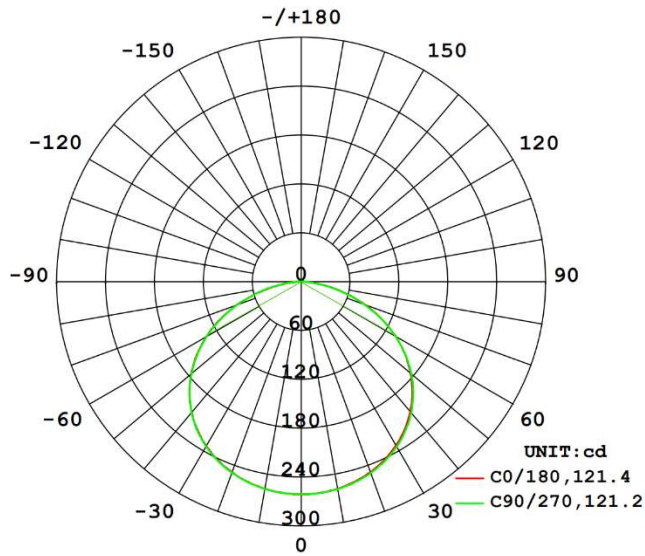

UNIT:cd
— C0/180,112.4
— C90/270,112.7

The Below curves indicate the illuminated area and the average illumination when the luminaire is at different distance
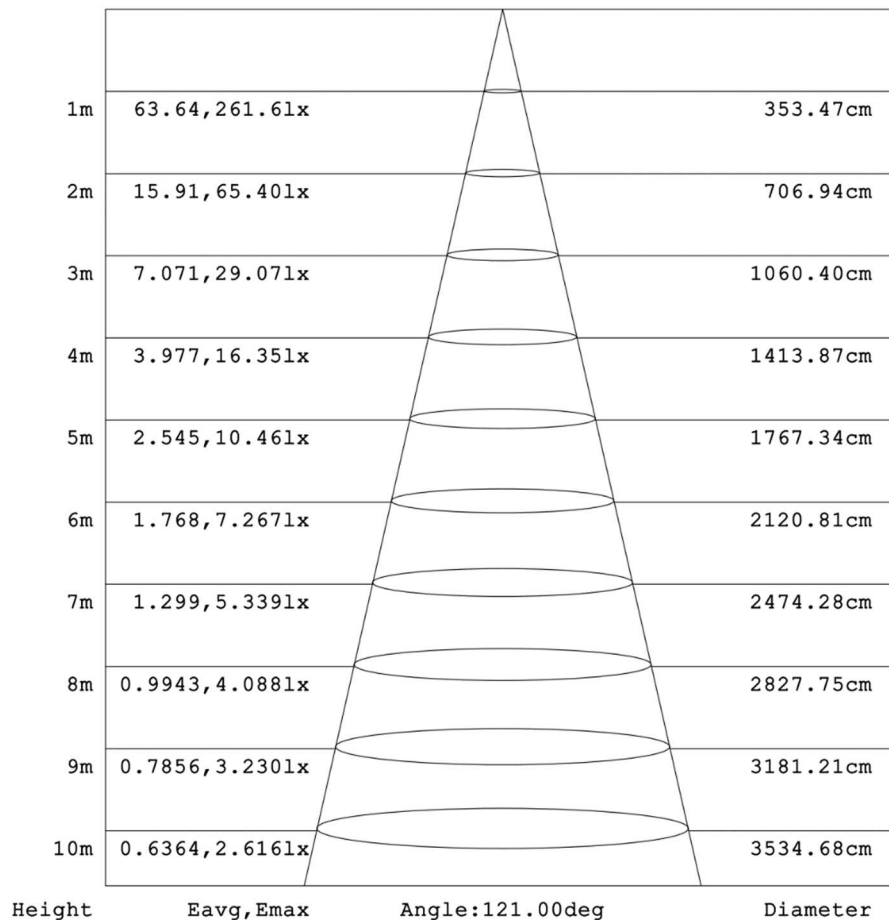
Flux out:389.6 lm

Height	Eavg,Emax	Angle:112.40deg	Diameter
1m	52.29,183.4lx		298.75cm
2m	13.07,45.85lx		597.51cm
3m	5.810,20.38lx		896.26cm
4m	3.268,11.46lx		1195.01cm
5m	2.092,7.336lx		1493.77cm
6m	1.453,5.094lx		1792.52cm
7m	1.067,3.743lx		2091.27cm
8m	0.8171,2.866lx		2390.03cm
9m	0.6456,2.264lx		2688.78cm
10m	0.5229,1.834lx		2987.53cm
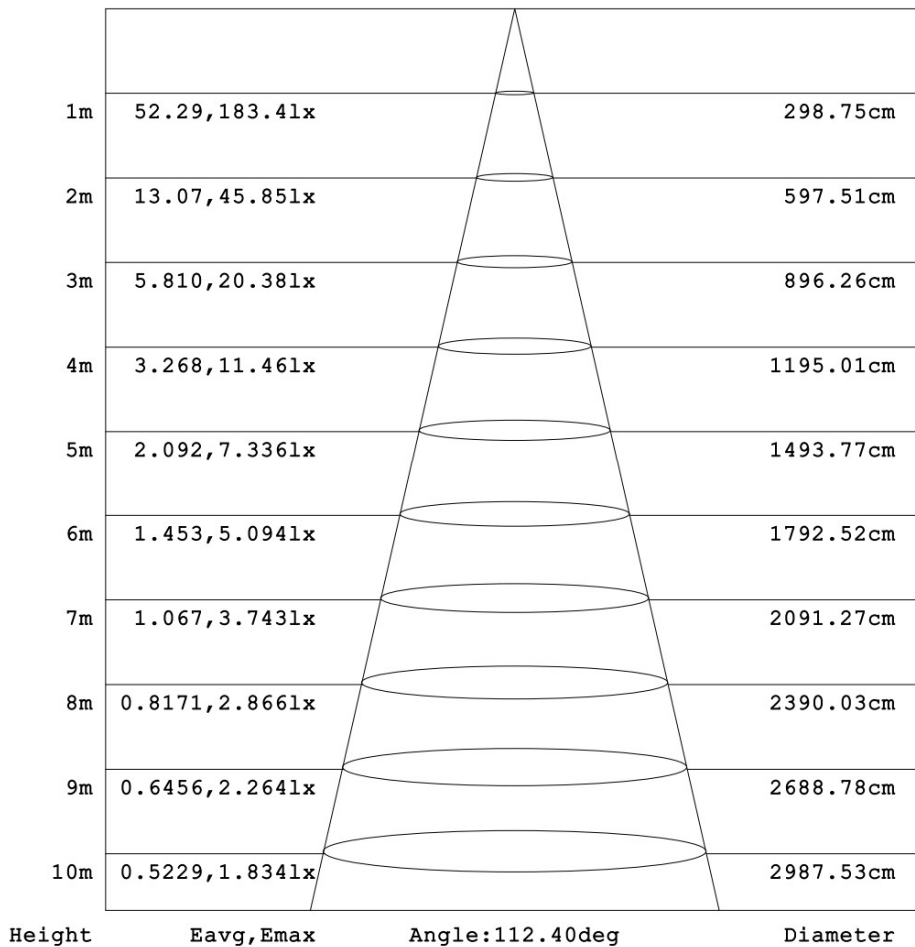
(DS126004 DMX RGBW W=3000K Strip)
Luminous Intensity Distribution Diagram

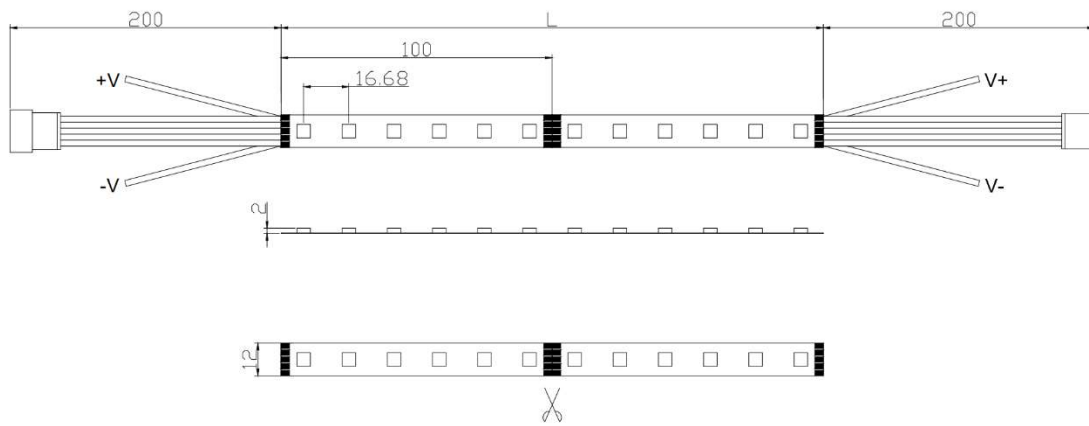UNIT:cd
C0/180,121.4
C90/270,121.2

The Below curves indicate the illuminated area and the average illumination when the luminaire is at different distance((DS126003 DMX RGB Strip)
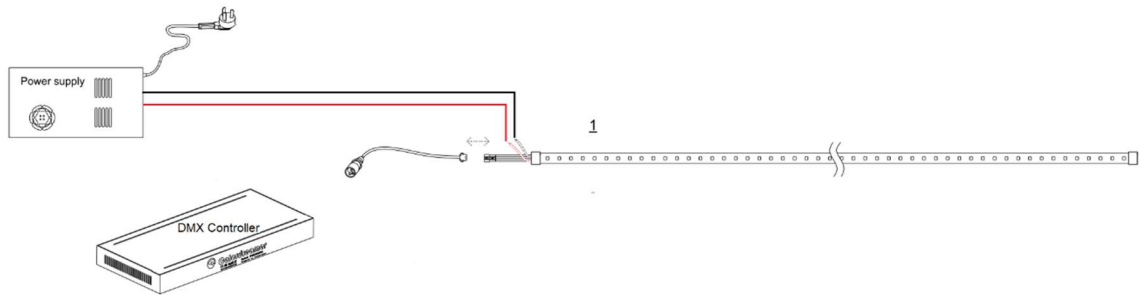
Flux out:650.7 lm

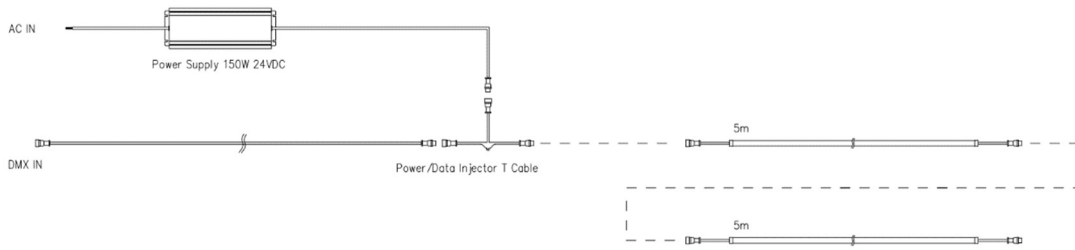| Height	Eavg,Emax	Angle:121.00deg	Diameter
1m	63.64,261.61x		353.47cm
2m	15.91,65.40lx		706.94cm
3m	7.071,29.07lx		1060.40cm
4m	3.977,16.35lx		1413.87cm
5m	2.545,10.46lx		1767.34cm
6m	1.768,7.267lx		2120.81cm
7m	1.299,5.339lx		2474.28cm
8m	0.9943,4.088lx		2827.75cm
9m	0.7856,3.230lx		3181.21cm
10m	0.6364,2.616lx		3534.68cm

Dimensions

IP20 Version

200   L   200

100

16.68

+V   V+

-V   V-

System Diagram

（IP20 Version）

(IP67 Version)

In ➡ Out
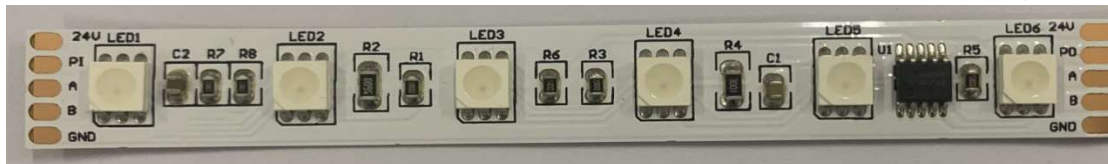
Wire		Color
Red	🟥	24VDC
PI/PO	⬜	Address Wire
Green	🟩	DMX+
Blue	🟦	DMX-
Black	⬛	Power and Signal GND

Note: Do not connect the Address wire for the first fixture.

Maximum Circuit Loading-Single Run

Model	Max Daisy Chain Length with Signal Power Feed
DS126003	10000mm
DS126004	10000mm
DS146003	10000mm
DS146004	10000mm