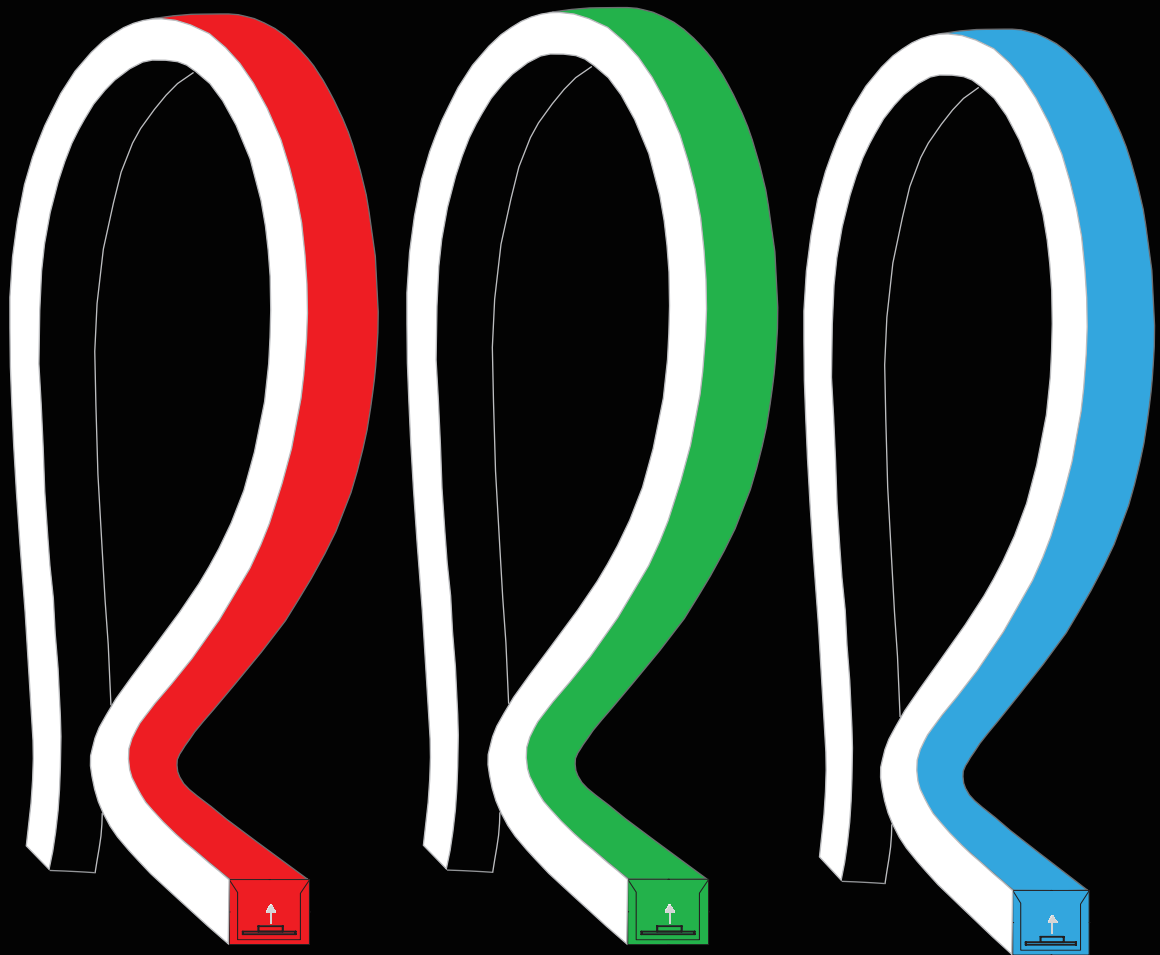




IL-F16 Model

RGB Neon Flex



Features

- Uniform and even light output
- Bending Vertically
- Connect with PWM controller, DMX controller
- Dimmable with Dali, 0/1-10, DMX,PWM
- 10 meters without apparent voltage drop
- Full encapsulated with IP68 Level
- High Reliability
- 3 or 5 Years warranty

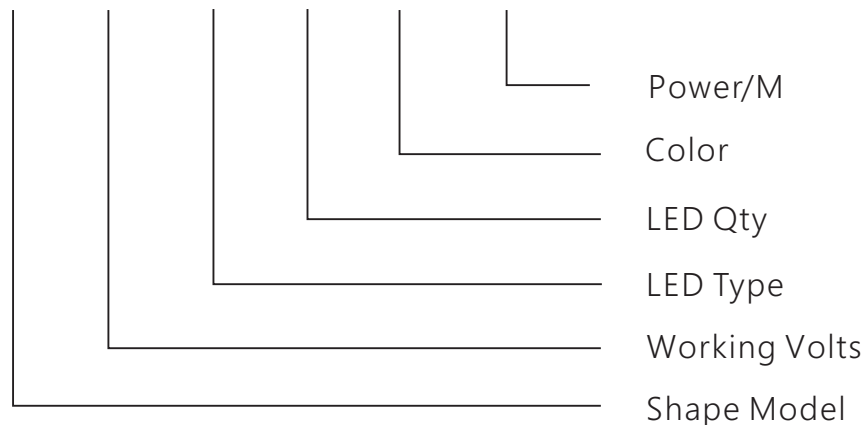
Applications

- Building facade, outline
- Cove lighting
- Sign and advertising lighting
- Linear lighting
- Additional lighting
- Decorative lighting



Model Encoding

IL-F16-24V-5050-72-RGB-15W



Technical Specifications

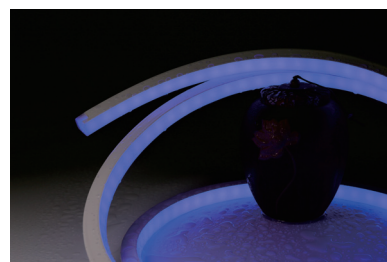
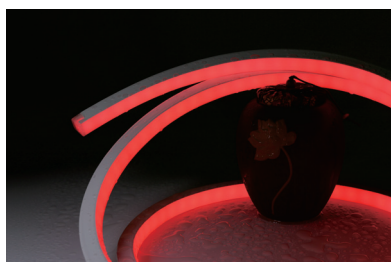
Model:	IL-F16-24V-5050-60-RGB-12W IL-F16-24V-5050-72-RGB-15W	
Working Voltage:	24V DC	24V DC
Power per Meter:	12W	15W
Working Mode:	PWM	PWM
LED Type:	SMD5050	SMD5050
LED Qty / meter:	60pcs	72pcs
Color:	RGB	RGB
Min. Cutting Unit:	6LEDs	6LEDs
Min. Cutting Length:	3.94"/10cm	3.3"/8.33cm
Max Length Single Feed:	33'/10m	33'/10m
Lumen Maintenance:	70,000 Hours L70@ 25°C, 50,000 Hours L70@ 50°C	
Material:	Eco PVC	
Protection Rating:	IP68	
Min. Bending:	Dia 12cm (4.7")	
Beam Angle:	120°	
Dimmable:	Yes	
Bending Direction:	Vertical	
Installation Temp.:	0°C to +55°C	
Ambient Temp.:	-25°C to +55°C	
Warranty:	3 or 5 Years	

Available Colors

Color	CCT/ Wavelength
Red	620-630nm
Green	520-530nm
Blue	465-475nm
R+G+B(W)	N/A

Lumens based on F16-24V-5050-72-RGB-15W

Color	Per Foot	Per Meter	Power
Red	>16.3lm	>53.47lm	/
Green	>46.48lm	>152.52lm	/
Blue	>10.74lm	>35.26lm	/
R+G+B(W)	>72.08lm	>236.5lm	4.57W/ft (15W/m)



Physical Specifications



Class 3



One Bin Only



Protection Rating



LM80 Test



UV Protected



CRI80+



Solvents Resistant



Dirt Resistant

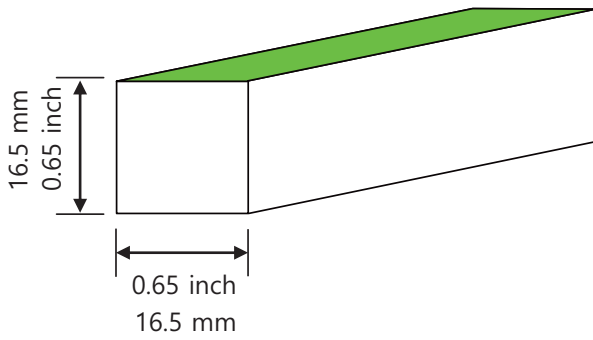


Saltwater Resistant

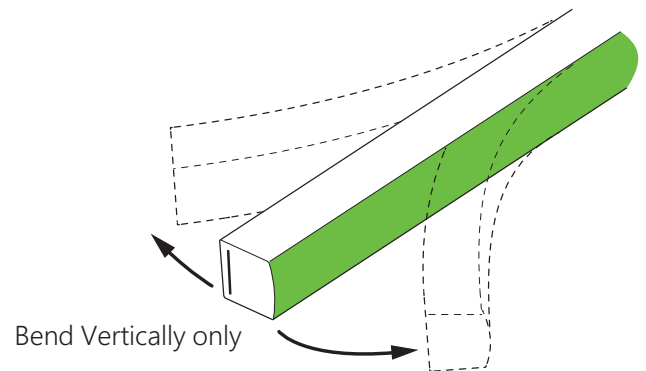


IK08 Protection

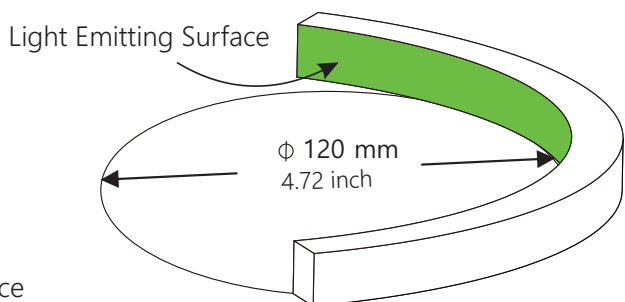
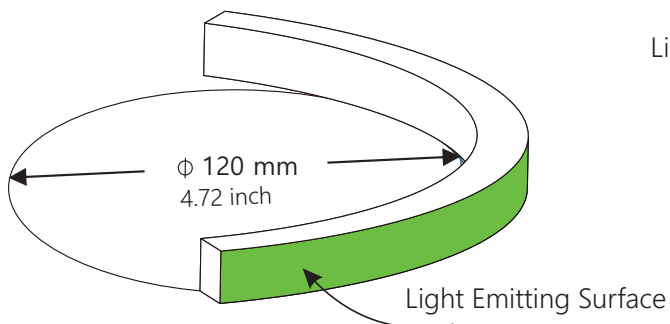
Light Profile



Light Direction



Minimum Bending Diameter



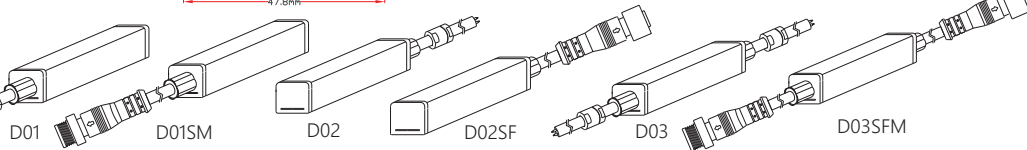
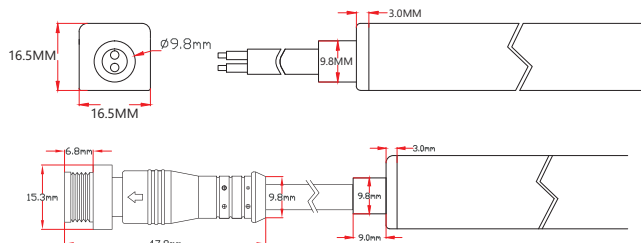
Mould Injection Connectors

IP68 Factory Assembly only.



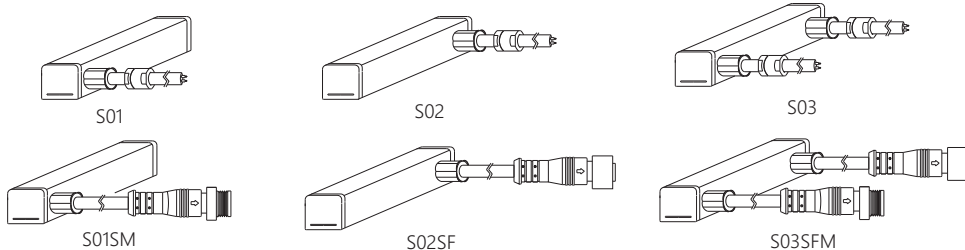
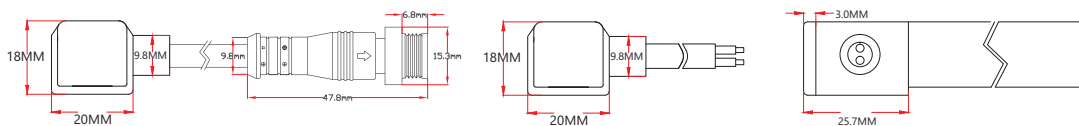
Direct Cable Output

IL-MJ-16-RGB-D01/ MJ-16-RGB-D01SM
IL-MJ-16-RGB-D02/ MJ-16-RGB-D02SF
IL-MJ-16-RGB-D03/ MJ-16-RGB-D03SFM



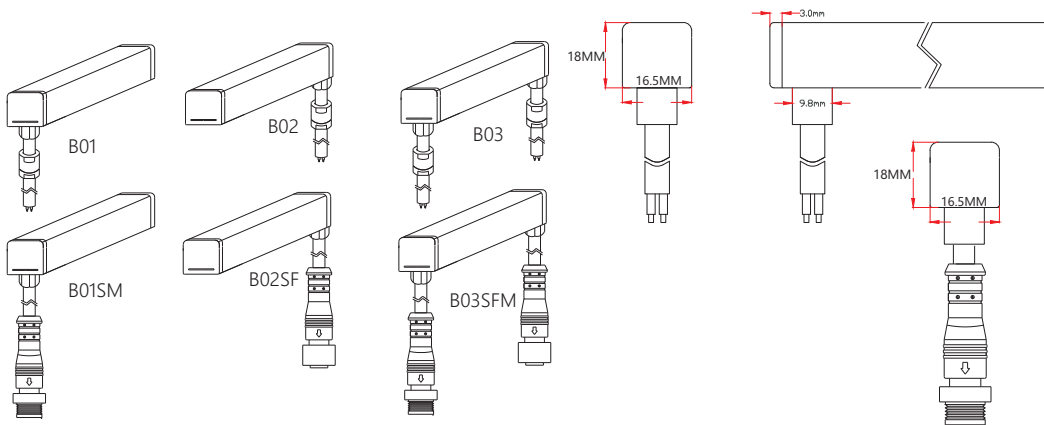
Side Cable Output

IL-MJ-16-RGB-S01/MJ-16-RGB-S01SM
IL-MJ-16-RGB-S02/MJ-16-RGB-S02SF
IL-MJ-16-RGB-S03/ MJ-16-RGB-S03SFM



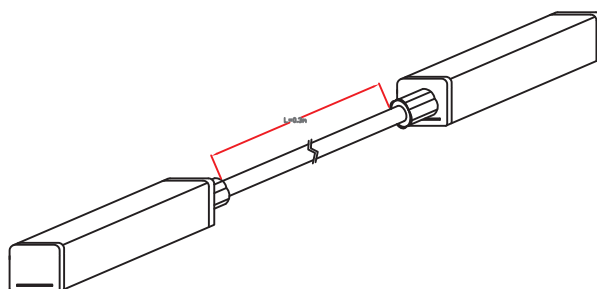
Bottom Cable Output

IL-MJ-16-RGB-B01/ MJ-16-RGB-B01SM
IL-MJ-16-RGB-B02/ MJ-16-RGB-B02SF
IL-MJ-16-RGB-B03/ MJ-16-RGB-B03SFM



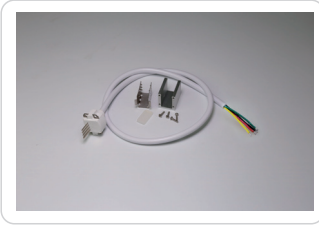
Mould Injection Jumper

JD-0.3M(L)
JS-0.3M(L)
JB-0.3M(L)



Screws Connectors

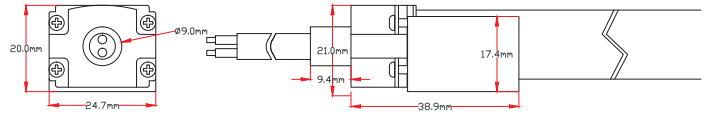
IP67 DIY



Front Connector-Direct Cable Output

IL-DIY-SC-FR-16-D-01-RGB

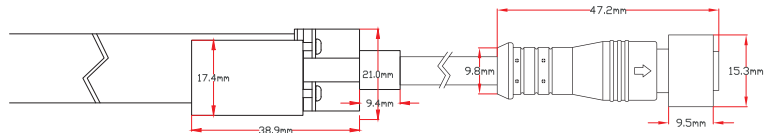
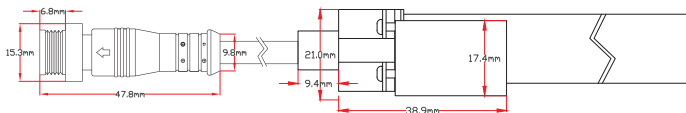
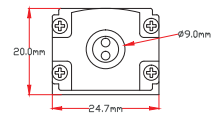
IL-DIY-SC-FR-16-D-02-RGB



Front Connector-Direct Cable Output

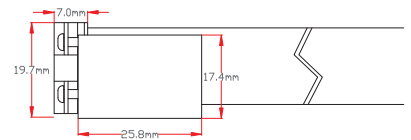
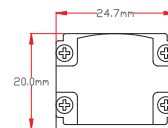
IL-DIY-SC-FR-16-D-01-SM-RGB

IL-DIY-SC-FR-16-D-02-SF-RGB



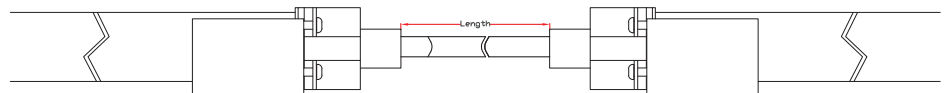
End Connector

DIY-SC-END-16



Splice Connector

DIY-SC-EXT-16-RGB

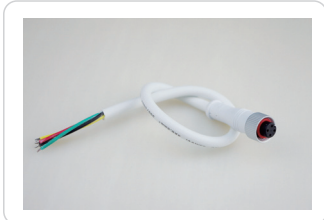


Accessories

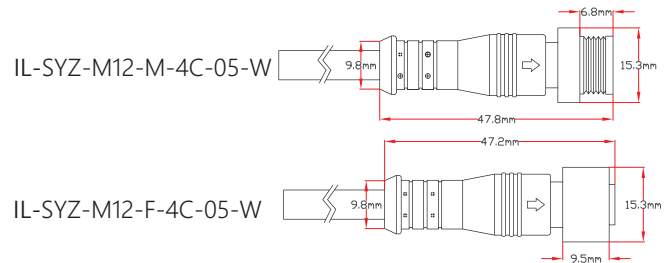
M12 Male/Female Connector IP67



Male connector wire

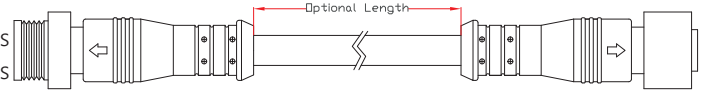


Female connector wire



4PIN Male to Female Extension Cable IP67

- IL-SYZ-M12-EXT-4C-05-W-10 L=1 Meter
- IL-SYZ-M12-EXT-4C-05-W-20 L=2 Meters
- IL-SYZ-M12-EXT-4C-05-W-50 L=5 Meters
- IL-SYZ-M12-EXT-4C-05-W-100 L=10 Meters



LED Neon Cutter

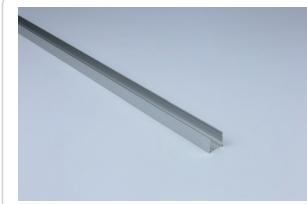
ACC-TOOL-C1



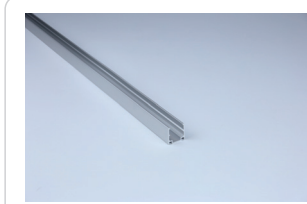
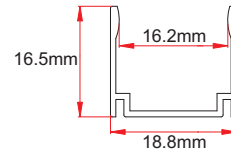
Silicon Rubber, neutral PH, for the use of DIY accessories

ACC-RTV

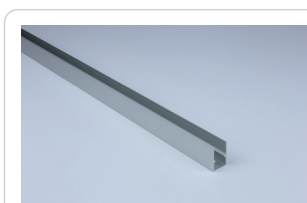
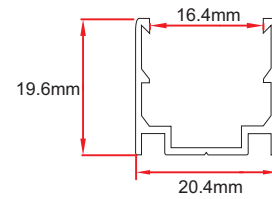
Mounting Channel



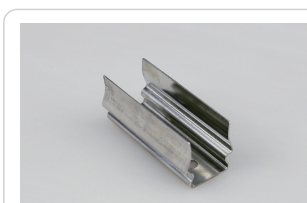
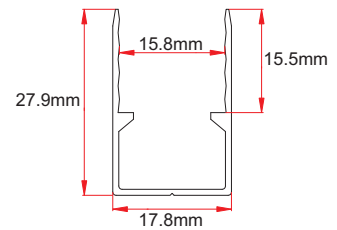
Model: IL-ALC16S01-S
Use for: F16
Length option: 1M, 2M, 5CM
Material: aluminum alloy
Type: Standard
Surface: anodized



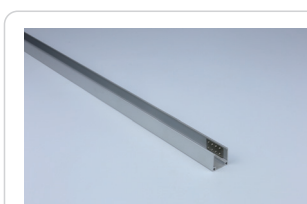
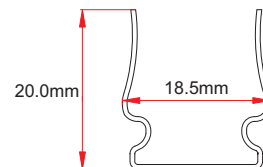
Model: IL-ALC16S02-S
Use for: F16
Length option: 1M, 2M, 5CM
Material: aluminum alloy
Type: Standard
Surface: anodized



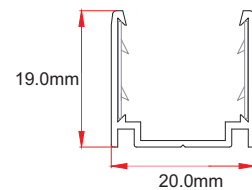
Model: IL-ALC16H01-S
Use for: F16
Length option: 1M, 2M
Material: aluminum alloy
Surface: anodized
Type: Cable Hiding



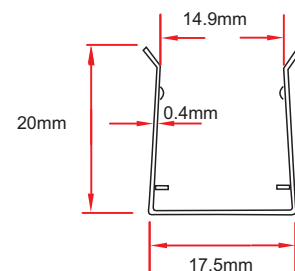
Model: IL-SSC16S01-05
Use for: F16
Length option: 5CM
Material: stainless steel
Surface: natural color
Type: 316 Stainless steel



Model: IL-ALC16AD01-S
Use for: F16
Length option: 1M, 2M, 5CM
Material: Aluminum alloy
Surface: natural color
Type: Anti-drop for upside down



Model: IL-SSC16FLX
Use for: F16
Length option: 10CM, 30CM, 50CM, 100CM
Material: stainless steel
Surface treatment: Polished
Type: Flexible



Testing

ANSI Standard

Nominal CCT Categories (2200-6500K)

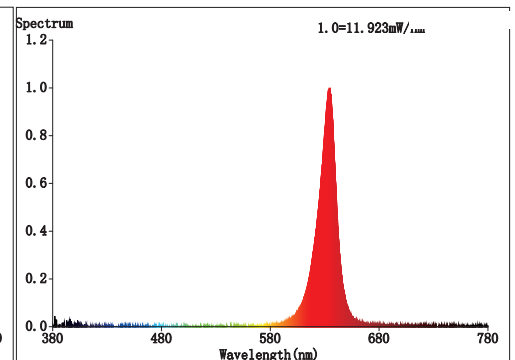
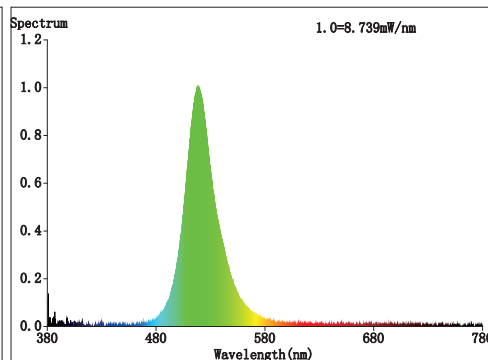
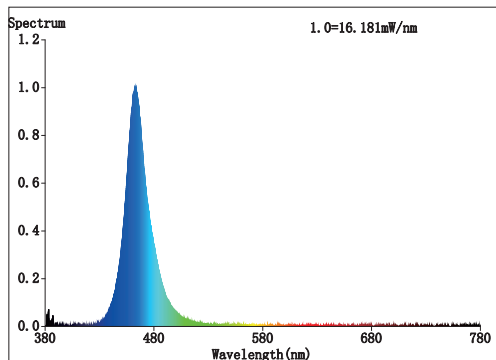
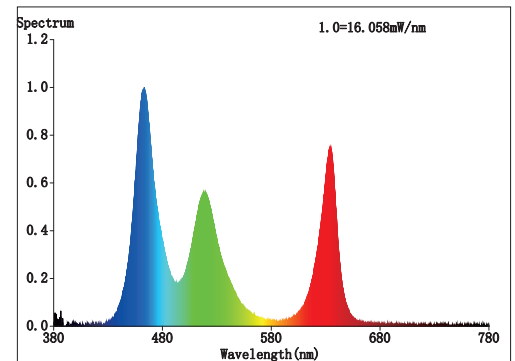
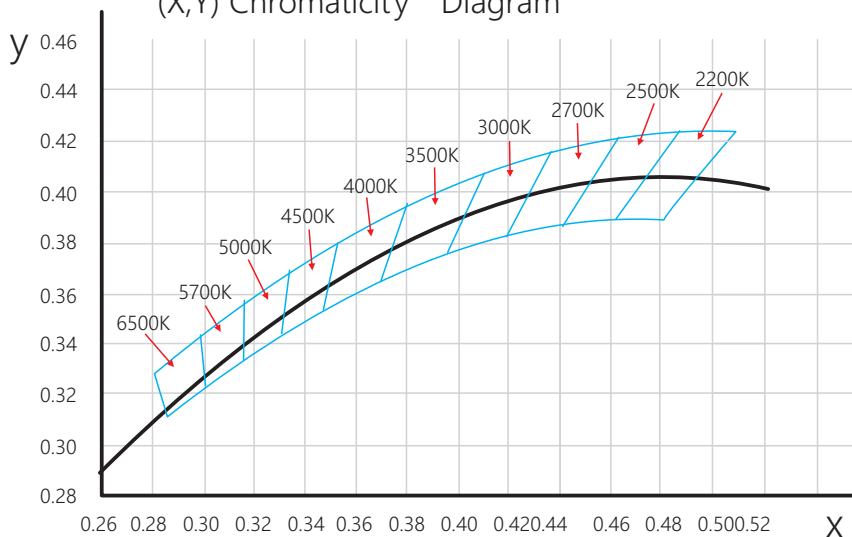
Nominal CCT	Target CCT and tolerance(K)	Target D_{uv}	D_{uv} Tolerance Range
2200K	2238 ±102	0.0000	T_x :CCT of the source
2500K	2460±120	0.0000	For $T_x < 2870K$
2700K	2725 ±145	0.0000	0.000 ± 0.0060
3000K	3045±175	0.0001	For $T_x \geq 2870K$
3500K	3465±245	0.0005	$D_{uv}(T_x) \pm 0.0060$
4000K	3985±275	0.0010	where
4500K	4503±243	0.0015	$D_{uv}(T_x) = 57700 \times (1/T_x)^2$
5000K	5029±283	0.0020	$-44.6 \times (1/T_x)$
5700K	5667±355	0.0025	$+0.00854$
6500K	6532±510	0.0031	
Flexible CCT	$T_F^{(1)} \pm \Delta T^{(2)}$	$D_{uv} T_F^{(3)}$	

Remark:

- 1) T_F is chosen to be at 100K steps (2300,2400,.....,6400K),excluding the ten nominal CCTs listed in Table 1.
- 2) $\Delta T = 1.1900 \times 10^8 \times T^3 - 1.5434 \times 10^4 \times T^2 + 0.7168 \times T - 902.55$
- 3) Same as in the D_{uv} Tolerance Range.

White Color Charts

(X,Y) Chromaticity Diagram

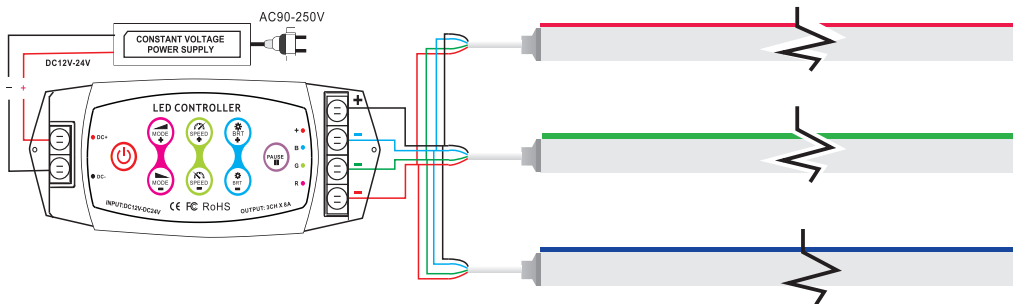


1. Wave Length: Red 653nm, Green 542.3nm, Blue 475nm

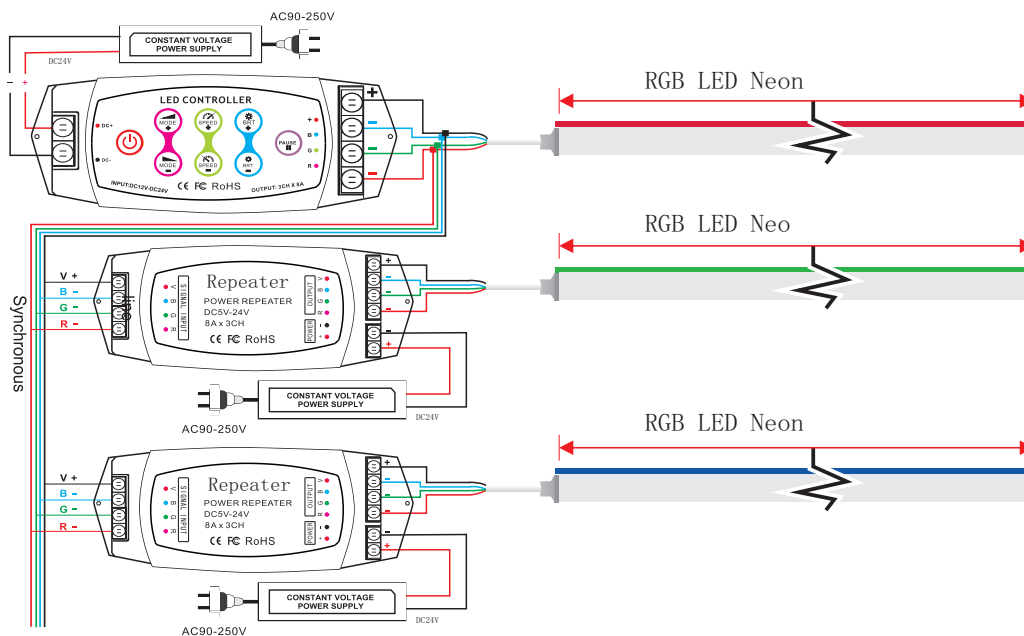
2. Lumen Output: F16 RGB: Red 53.47lm/mt, Green 152.52lm/mt, Blue 35.26lm/mt

Connection

1. Connection with common RGB controller, 10Mt max. for single length



2. Connection with common RGB controller, extend by using power repeater



Connection

3. Connection with DMX decoder and DMX Controller

