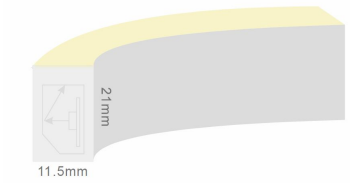
LEDPRO

Flexible LED Neon RGBW

RGBW Series



Features

- Uniform and even light ouput
- Flat surface with 120 degree beam angle
- RGBW, optional White from 3000 - 6500K
- Dimmable with Dali, DMX,PWM
- Seamless joint
- Full encapsulated with IP68 Level
- High Reliability
- 3 Years warranty

Applications

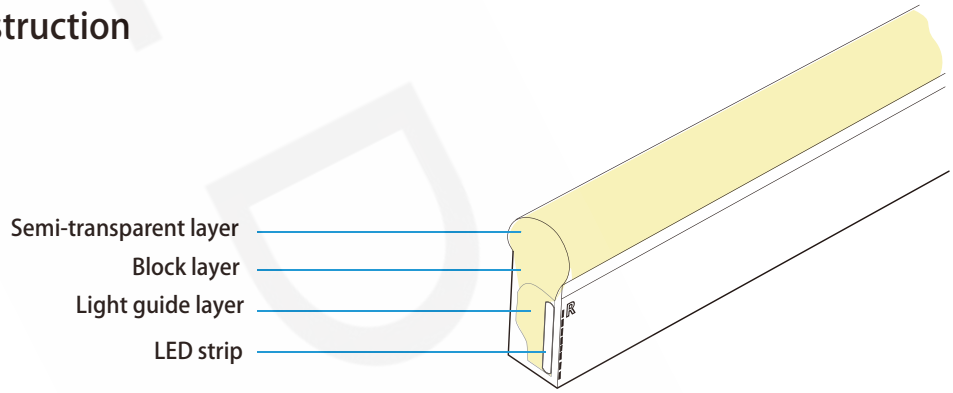
- Building facade, outline
- Cove lighting
- Sign and advertising lighting
- Linear lighting
- Additional lightig
- Decorative lighting

Technical Specifications

Model:	Series-2-Dome-RGBW
Working Voltage:	24V DC
Power per Meter:	15W
Working Mode:	PWM
LED Type:	SMD5050
LED Qty / meter:	60
Color:	RGBW
Available White:	3000K/4000K/6000K
Min. Cutting Unit:	6LEDs
Min. Cutting Length:	3.94"/10cm
Max Length Single Feed:	33'/10m
Max Length Double Feed:	65.62'/20m
Lumen Maintenance:	70,000 Hours L70@ 25°C, 50,000 Hours L70@ 50°C
Material:	Eco PVC
Protection Rating:	IP68
Min. Bending:	Dia 12cm
Beam Angle:	120°
Dimmable:	Yes
Bending Direction:	Horizontally
Installation Temp.:	0°C to +55°C
Ambient Temp.:	-25°C to +55°C
Warranty:	3 Years

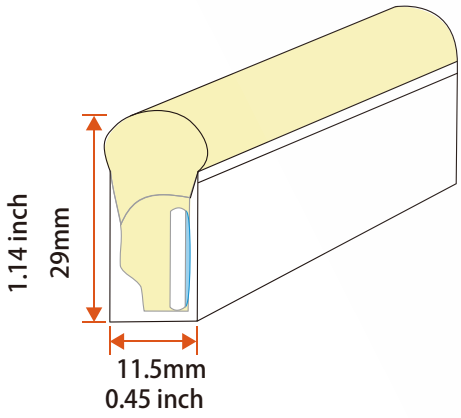
Physical Specifications

Construction

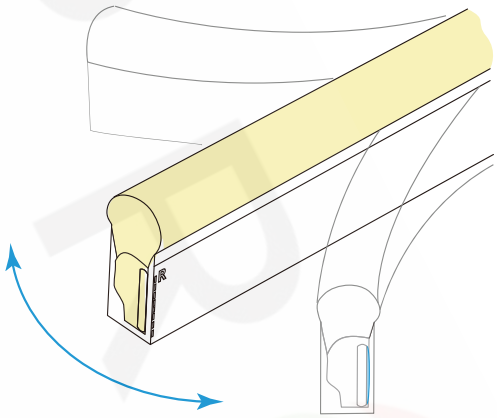


Physical Specification

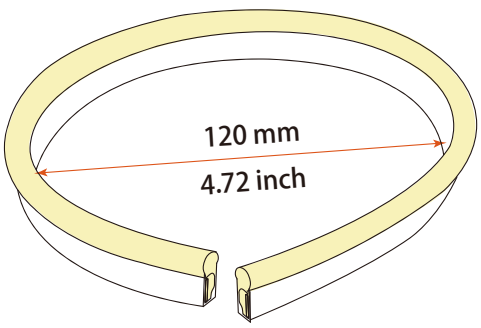
Light profile

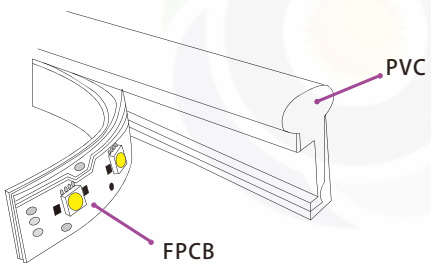


Bending direction



Min. bending diameter



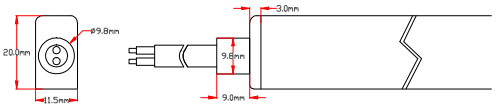


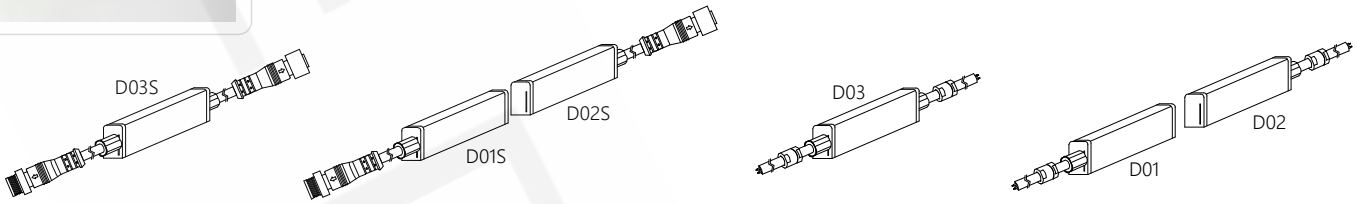
Mould Injection Connectors

IP68 Factory Assembly only.

Direct Cable Output

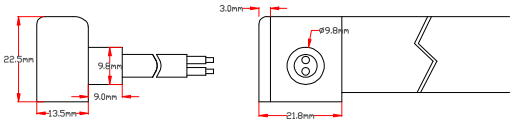
D01/D01S
D02/D02S
D03/D03S

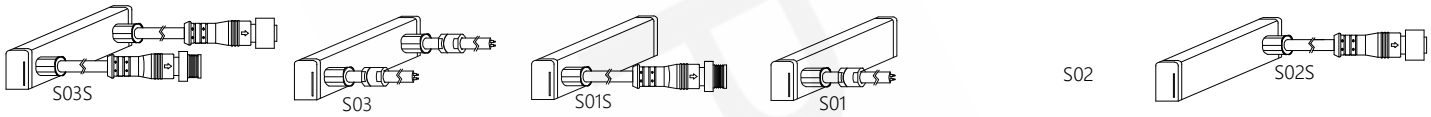




Side Cable Output

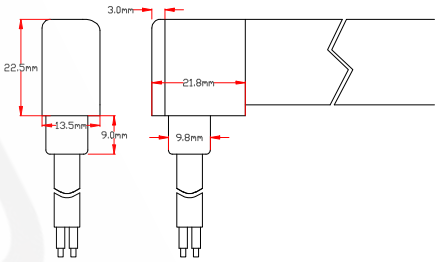
S01/S01S
S02/S02S
S03/S03S

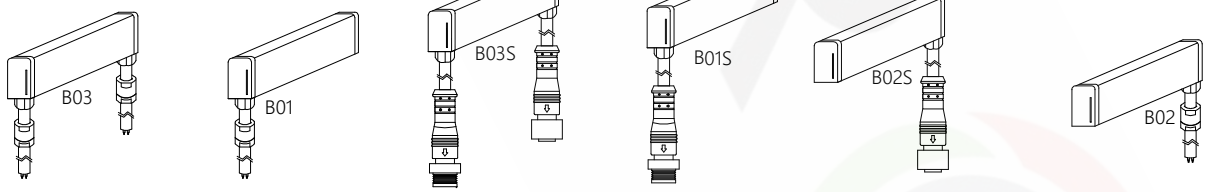




Bottom Cable Output

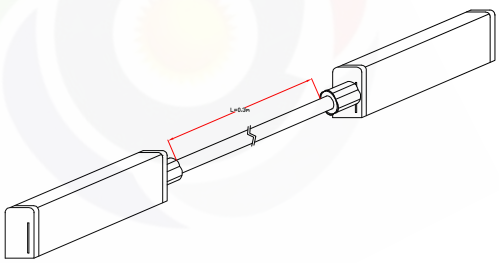
B01/B01S
B02/B02S
B03/B03S





Mould Injection Jumper

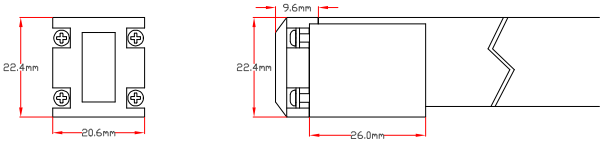
JD-0.3M(L)
JS-0.3M(L)
JB-0.3M(L)



Screws Connectors

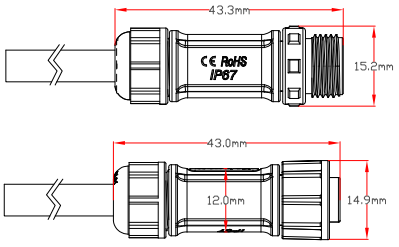
IP67 DIY

End Connector
RGBW-B

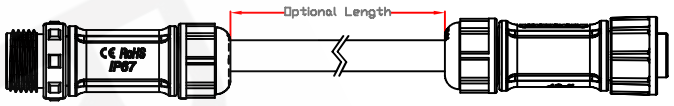


Accessories

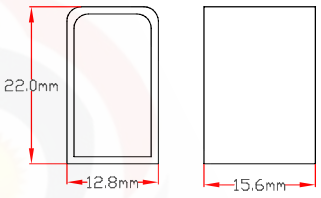
M12 Male/Female Connector IP67
KLXM12-5PIN
KLXM12-5PIN



5PIN Male to Female Extension Cable IP67
L=1 Meter
L=2 Meters
L=5 Meters
L=10 Meters

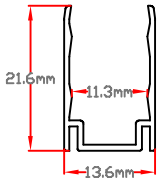


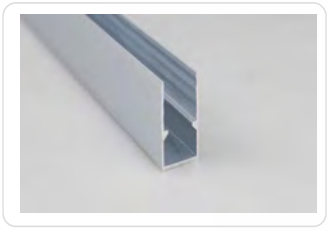
PVC End Cap IP20
Flat-PVCEC



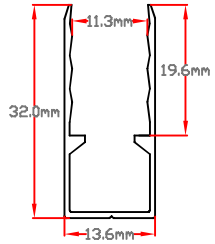
Mounting Channel

Model: AM01
Use for: Dome and Flat
Length option: 1M, 2M, 5CM
Material: aluminum alloy

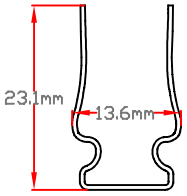


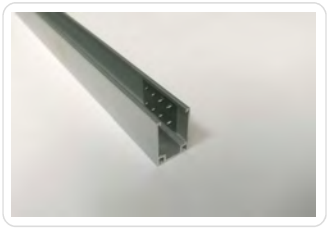


Model: AM03
Use for: Dome and FlatF21
Length option: 1M, 2M, 5CM
Material: aluminum alloy

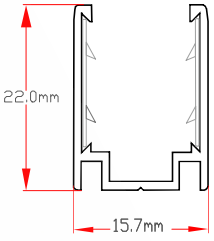


Model: SSM01C5
Use for: Dome and Flat
Length option: 5CM
Material: stainless steel





Model: ADM01
Use for: Dome and Flat
Length option: 1M, 2M, 5CM
Material: Aluminum alloy



Packing

Standard: Carton (Paper reel inside)

Fixture Length	Paper Reel	Carton Dimension	Gross Weight
787.4in(20m)	D12.99*H6.18in(33*15.7cm)	33*33*18cm	17.63 lbs (10.4 kg)

Custom: Carton (White box+plastic plate inside)

Fixture Length	White box Dimension	Carton Dimension	White box Quantity	Gross Weight
393.7in(10m)	21.6*1.38*18.9in(55*3.5*48cm)	57*49*19cm	Max 5pcs	57.32 lbs (26 kg)

Testing

ANSI Standard

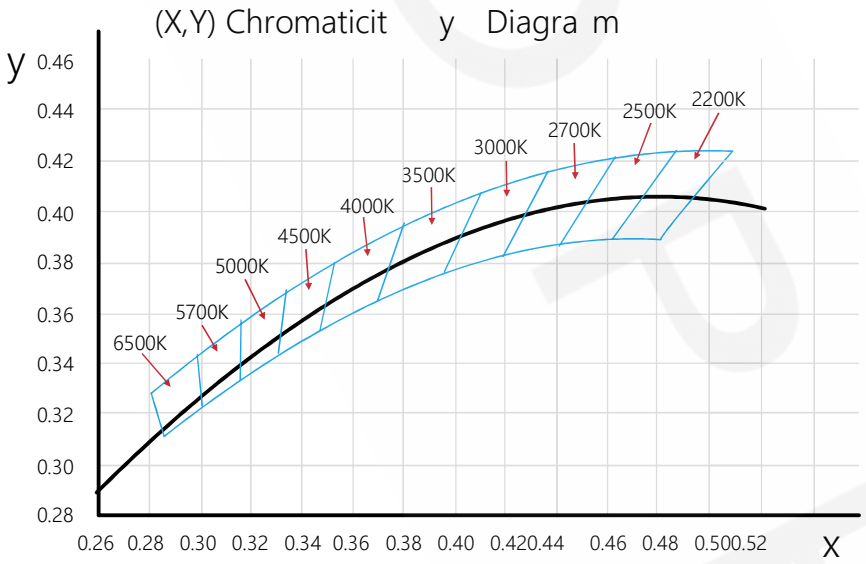
Nominal CCT Categories (2200-6500K)

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

Remark:

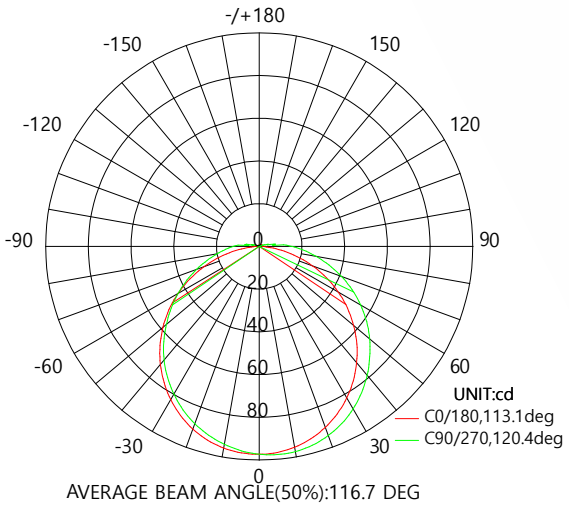
1) T_F is chosen to be at 100K steps (2300,2400,.....,6400K),excluding the ten nominal CCTs listed in Table 1.
2) $\Delta T=1.1900x10^{8}xT^{3}-1.5434x10^{4}xT^{2}+0.7168xT-902.55$
3) Same as in the D_{uv} Tolerance Range.

White Color Charts



Photometric

RGBWW3000K



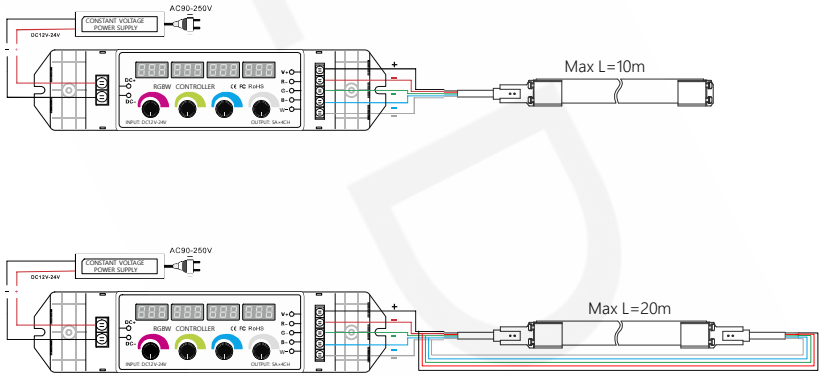
AVERAGE BEAM ANGLE(50%):116.7 DEG

Connection

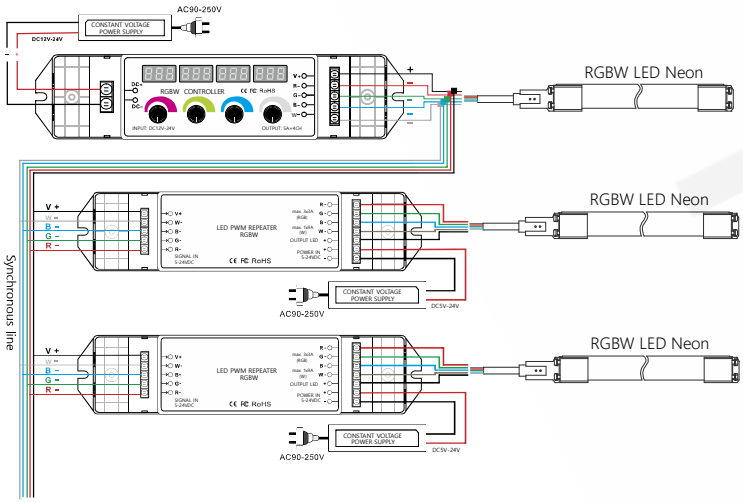
Loading Chart

Power Supply

Rated Power	35W	60W	75W	80W	100W	120W	150W	185W	240W	320W
3.66W/ft (15W/m)	4.92ft (1.5m)	9.84ft (3m)	11.486ft (3.5m)	13.12ft (4m)	16.40ft (5m)	18.047ft (5.5m)	22.96ft (7m)	27.88ft (8.5m)	37.73ft (11.5m)	49.21ft (15m)

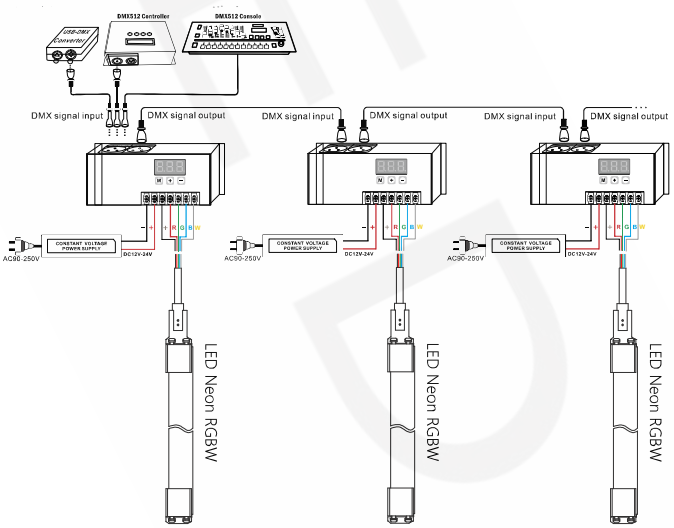
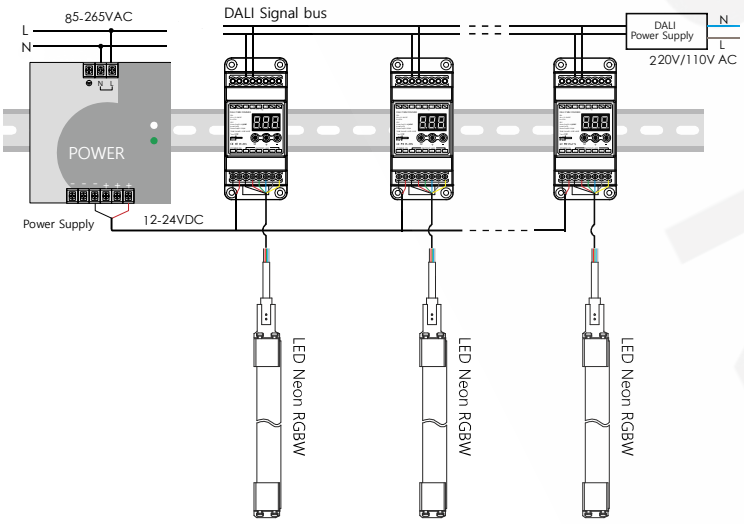


PWM Control



Connection

DMX512 Dimming



DALI Control