

Características técnicas / Technical data



Alimentación/power supply	24V/dc
Potencia/m-Power/m	12W
Ángulo/angle	320°
T° de trabajo/operating T°	-20°C~50°C
T° de almacenamiento/Storage T°	-30°C~80°C
Cri	>80
Tipo de control/dimmable support	pwm, triac, dali, 0-10V
IP	68
Medidas/outer dimensions	29x11.5mm
Tipo de Leds	5050
Longitud min.corte/Min.cutting length	83mm
Longitud del rollo/Roll length	Corte a medida
Leds/m	60
Necesita disipador/Needs heatsink	si/yes
Vida útil/life time	50.000h

Referencia Reference	Color Color	Fluj.lum. Lum.Flow	Consumo Consume	Protección Protection
BS-NEON-T1-BC	3000K	340Lm/m	12W/m	IP68
BS-NEON-T1-BD	4000K	370Lm/m	12W/m	IP68
BS-NEON-T1-BF	6000K	380Lm/m	12W/m	IP68
BS-NEON-T1-RGB		120/280/40Lm/m	12W/m	IP68

Ref. Ref.	Descripción Description
BS-NEON-C1-B	Conector inicial tubo blanco con protección IP68 / Initial connector white tube with IP68 protection
BS-NEON-C1-RGB	Conector inicial tubo RGB con protección IP68 / Initial connector RGB tube with IP 68 protection
BS-NEON-F1	Conector final con protección IP68 / End connector with IP68 protection
BS-NEON-P1	Perfil de plástico para tubo Flexneon / Plastic profile for Flexneon tube



Beam
Angle 10%



Bending
Diameter



Flame
Resistant



UV
Resistant



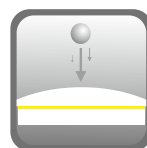
Solvents
Resistant



Saltwater
Resistant



IP 68
Protection



IK08
Protection

MEDIDAS / DIMENSIONS

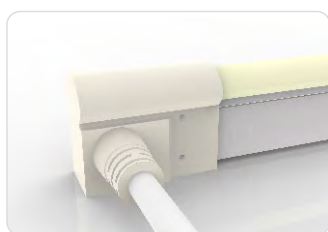
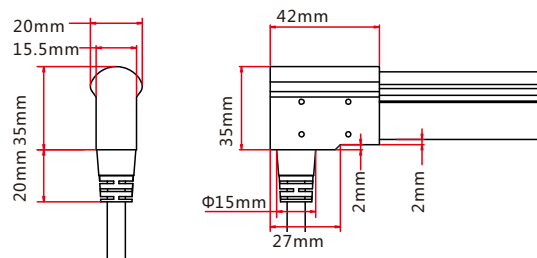
Dual Injection-moulded Connector

Note: Unless otherwise stated, the tolerance of the connector is $\pm 0.5\text{mm}$.



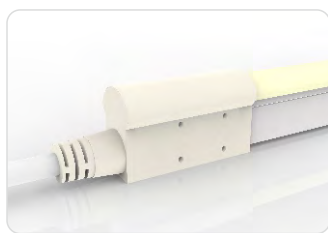
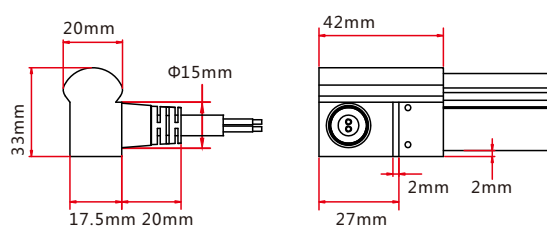
Dual Injection-moulded Front Connector (bottom)

Connects light to power supply with pre-installed bottom feed cable, IP68. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m.



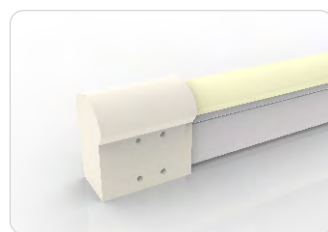
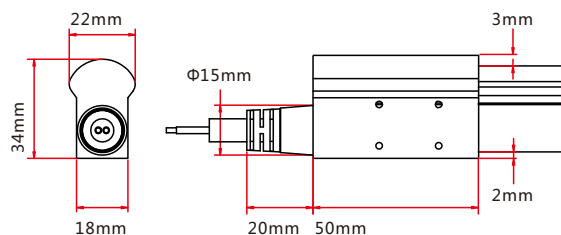
Dual Injection-moulded Front Connector (side)

Connects light to power supply with pre-installed side feed cable, IP68. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m.



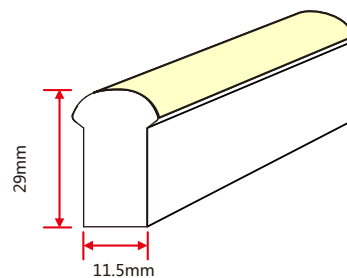
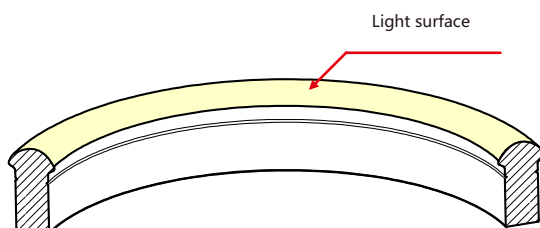
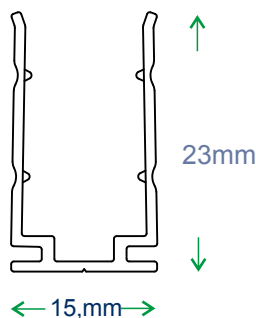
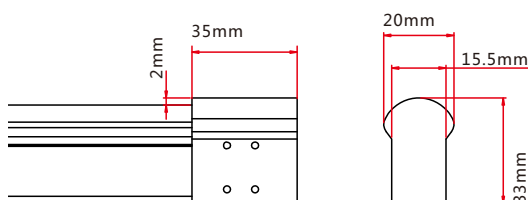
Dual Injection-moulded Front Connector (top end)

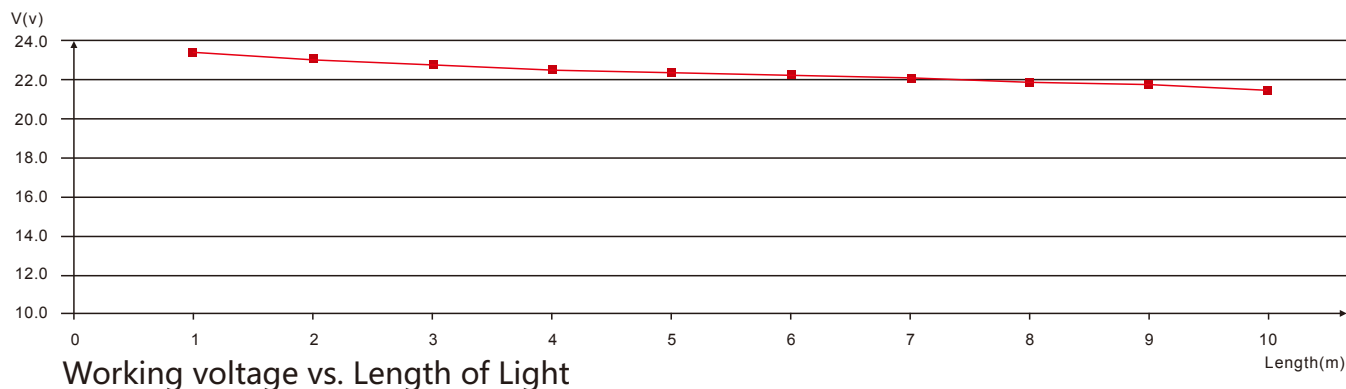
Connects light to power supply with pre-installed end feed cable, IP68. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m.



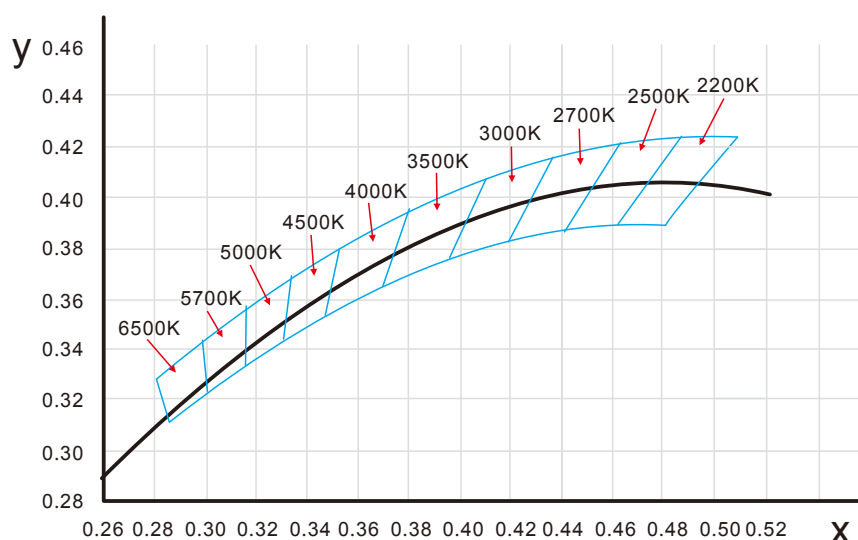
Dual Injection-moulded End Cap

Pre-installed termination protection of the light, IP68.

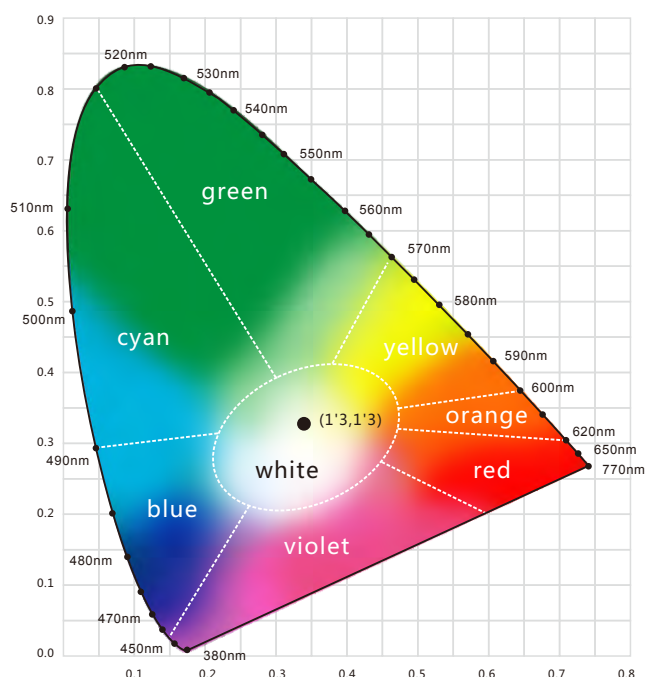




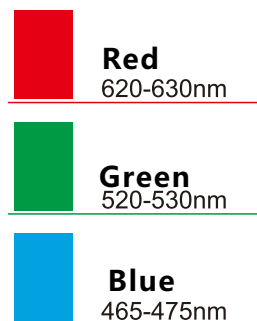
6.6 (X,Y) Chromaticity Diagram



6.7 Wavelength of Color Light



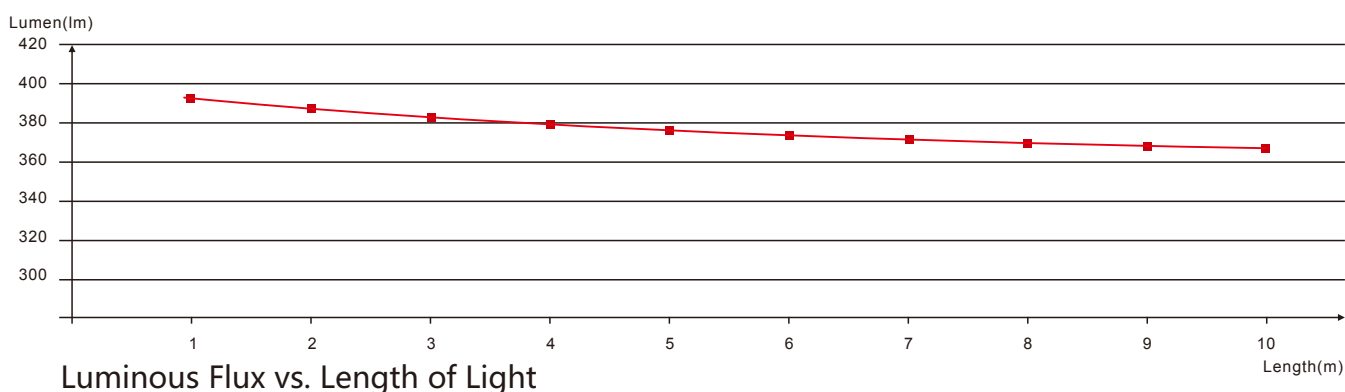
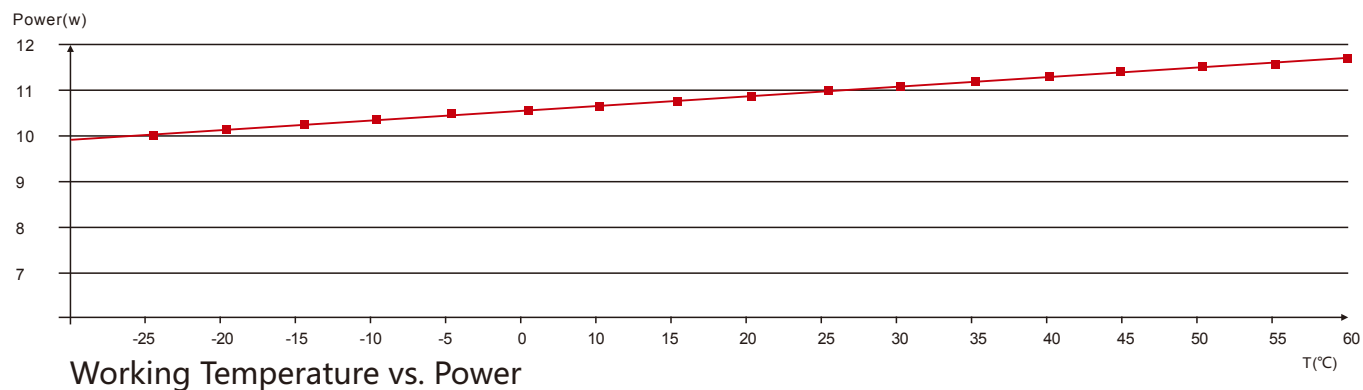
Light Color



6.4 Reliability Test of Light

TESTING ITEM	PERFORMANCE	STANDARD/REFERENCE VALUE/DESCRIPTION
PHOTOMETRIC TESTING	Spectrum Analysis	IES LM 79 (lumen, CCT, CRI, XY, SDCM, wave length)
	Photometric Distribution	IES LM 79(lumen intensity distribution & Lux diagram)
	Lumen Maintenance & Life Time	IES LM84 & IES TM28
TEMPERATURE RISE TESTING	Normal Temperature Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
	Abnormal Operation Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
MECHANICS & PHYSICS TESTING	Bending Test	Manufacturer-defined, 500 cycles
	Swing Test	UL2388, > 750 cycles
	Tensile Test	Manufacturer-defined, > the weight of light in
	Twist Test	maximum connection length with both ends feed
	Ball Impact	Manufacturer-defined, > 200 cycles
	IK07 IK08	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21 IEC62262
WEATHERING TESTING	Swimming Pool Water Immersion Test	GB9667, PH6.8-7.6, free chlorine 0.3-0.6mg/L
	Sea Water Immersion Test	IEC60598-1, Salinity 4%
	Salt Spray Test	IEC68-2-11
	Outdoor Exposure	Manufacturer-defined
ENVIROMENT TESTING	Flame Resistant Test	UL94
	UV Exposure Test	ASTMG 154 , ISO 4892-3 , UVA@340nm
	IPX5 IPX6 IPX7 IPX8	IEC60529
ENDURANCE & THERMAL TEST LAB	Temperature Shock Test	Manufacturer-defined , -40°C-60°C (typical temperature range)
	Constant Temperature Test	Manufacturer-defined , 70°C (typical temperature)

6.5 Figures of Typical Characteristics



6.8 Loading Chart

Type.	Rated Power /m	Power Supply									
		35w	60w	75w	80w	100w	120w	150w	185w	240w	320w
F21	6.5w/7.2w/8w	3m	6m	7.5m	8m	10m	12m	15m	18m	24m	30m
	10.6w/11w/12w	2m	3.5m	4.5m	5m	6m	7m	10m	12m	14m	20m
Energizing way		DC input  01/02							DC input  DC input 0102		

Note: 1. These are the light maximum recommended running length subject to selected power supply.
 2. For example: It is recommended to use one 80W power supply loading maximum 8m light (7.2w/m) or maximum 5m light (12w/m) by energizing the light one end.

6.9 Correlated Color Temperature

ANSI STANDARD

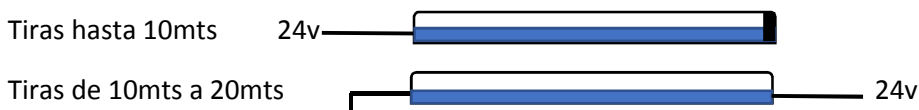
Nominal CCT Categories

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 $T_x < 2870K$
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 (2200-6500K)	$T_F^{(1)} \pm \Delta T^{(2)}$	$D_{uv} T_F^{(3)}$	

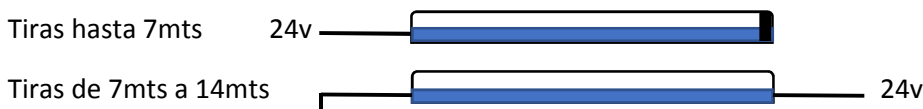
Remark:

- 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.

Alimentación de tiras FLEXNEON en monocolor:



Alimentación de tiras de FLEZNEON en RGB:

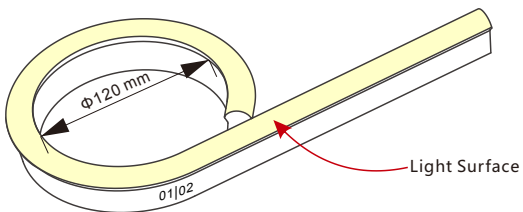


2. Functions & Features

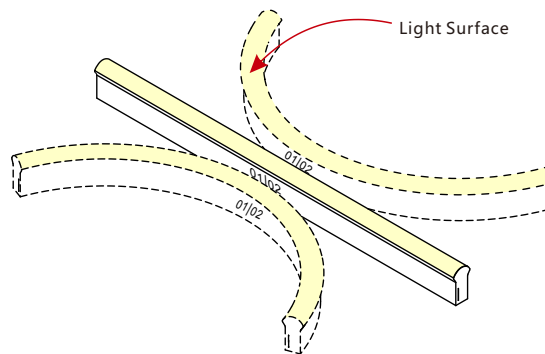
2.1 Product Features

1. High quality and high brightness SMD LED chip.
2. Variety of monochromatic lights for option including Red, Green, Blue, Amber, Orange and White light.
3. UV & flame resistant construction(PVC).
4. Domed profile for large beam angle(320°).
5. High color consistency&smooth illumination with no light dots.
6. Flexible with 120mm minimum bending diameter.
7. Easy installation and assembly with DIY accessories for joining and terminating.
8. High IP rating(IP68).
9. The product IP rate is ultimately in line with properly applied IP rated connectors.
10. Continuous length up to 15m(R,A,O)/10m (G, B, W) by powering one end.
11. Environmentally friendly & energy efficient.
12. Automated production, high reliability & long warranty.
13. 5 years life span (Do not continuously operate over 8 hours per day).

2.2 Minimum Bend Diameter



The light can only be bent laterally
(opposite bend along to light surface).



Do not bend smaller than allowed minimum bend diameter.

1.2 Technical Parameters

Technical Parameters

Article No.		
Color	Red/Amber/Orange	White/Green/Blue
Working Voltage	DC 24V	DC 24V
Rated Power/m	7.2W	12W
LED Qty/m	60LEDs	60LEDs
LED Distance	16.67mm	16.67mm
Min. Cutting Unit	10LEDs(1unit)	6LEDs(1unit)
Min. Cutting Length	167mm(1unit)	100mm(1unit)
Continuous Length	15m	10m
Weight/m	490g	
Storage Temperature	-20~60°C	
Environmental Working Temperature	-20~45°C	
Environmental Installation Temperature	0~45°C	
IP Rating	IP68	

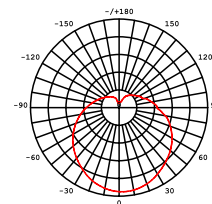


1.3 Optical Parameters

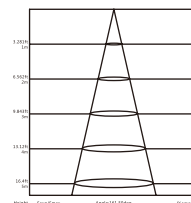
Photometric Data

Article No.							
LED Type	SMD						
Beam angle	320°						
Color	Wavelength	Lumen/m	Power/m	Color	CCT	Lumen/m	Power/m
Red	620-630nm	>120lm	7.2W	2200K	2238±102K	>340lm	12W
Green	520-530nm	>280lm	12W	2500K	2460±120K	>340lm	12W
Blue	465-475nm	>40lm	12W	2700K	2725±145K	>340lm	12W
Amber	585-595nm	>120lm	7.2W	3000K	3045±175K	>340lm	12W
Orange	600-610nm	>90lm	7.2W	3500K	3465±245K	>380lm	12W
				4000K	3985±275K	>380lm	12W
				4500K	4503±243K	>380lm	12W
				5000K	5029±283K	>380lm	12W
				5700K	5669±355K	>380lm	12W
				6500K	6532±510K	>380lm	12W

Candle Power Distribution

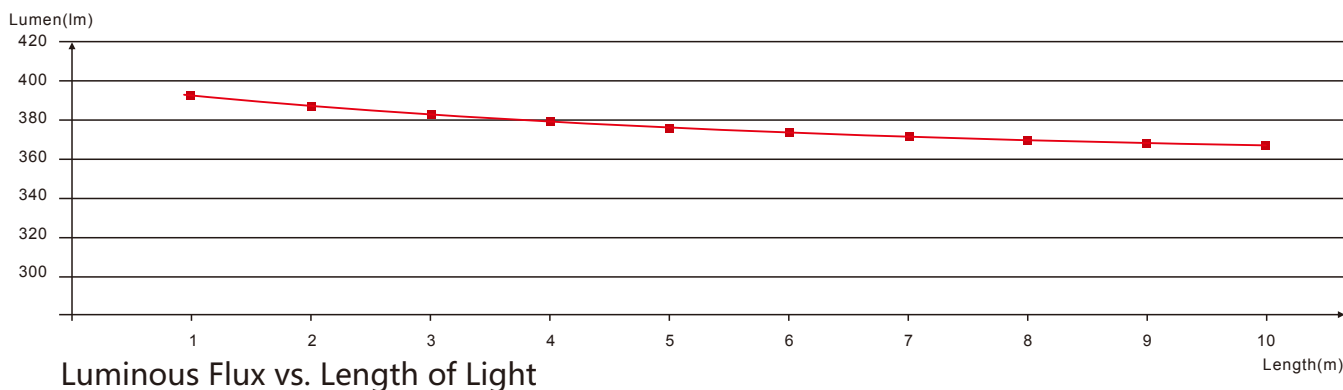
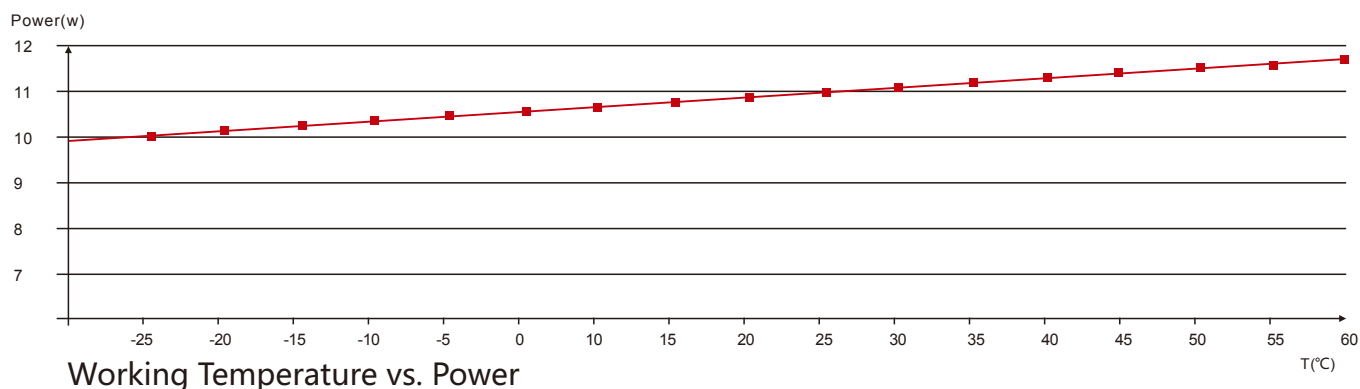


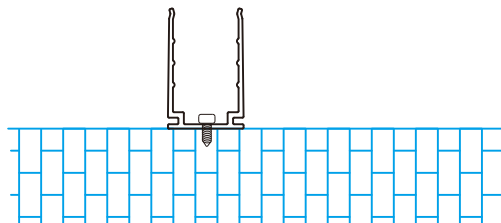
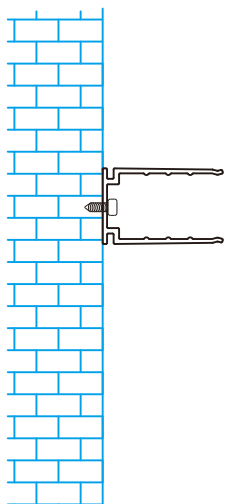
Illuminance Characteristics



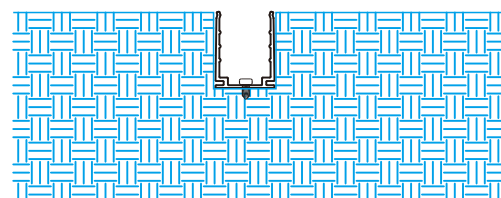
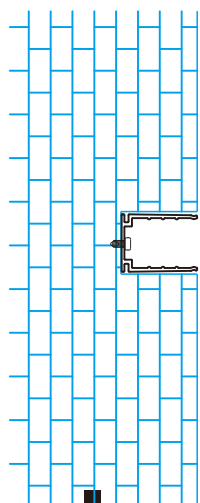
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	Sea Water Immersion Test	IEC60598-1, Salinity 4%
	Salt Spray Test	IEC68-2-11
	Outdoor Exposure	Manufacturer-defined
ENVIROMENT TESTING	Flame Resistant Test	UL94
	UV Exposure Test	ASTMG 154 , ISO 4892-3 , UVA@340nm
	IPX5 IPX6 IPX7 IPX8	IEC60529
ENDURANCE & THERMAL TEST LAB	Temperature Shock Test	Manufacturer-defined , -40°C-60°C (typical temperature range)
	Constant Temperature Test	Manufacturer-defined , 70°C (typical temperature)

6.5 Figures of Typical Characteristics



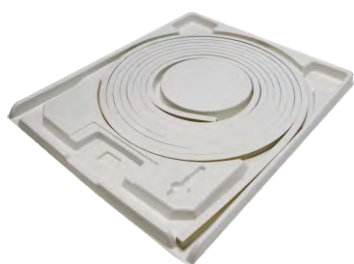


5. 1.2 Recess mounting

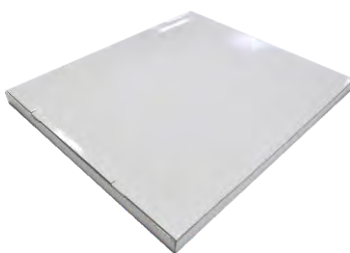


5. Packaging

Packaging Method



Plastic Plate



White Box



Carton



Packaging Detail

Light Length	White Box Dimension (cm)	Carton Dimension (cm)	Numbers of White Box	Carton Weight (kg)
5m	39*5.2*50	52*41*28	5	14
10m	51*5.2*62	64*53*28	5	26
10m	51*5.2*62	64*53*17.5	3	16
20m	68*5.2*79	81*70*12.5	2	22