Flex Led Neon Light

N1212D-TOP
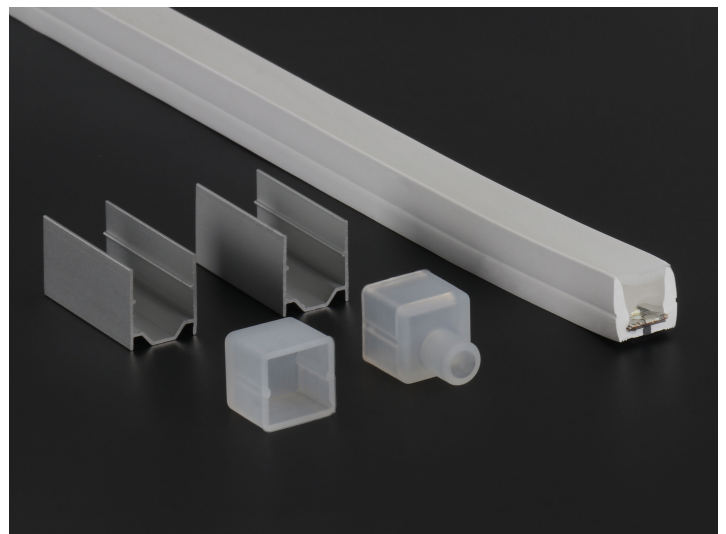# FC-N1212D-TOP

IP67	UV RESISTANT	FLAME RESISTANT	SALTWATER RESISTANT	SOLVENT RESISTANT	60℃ -25℃

Indoor	outdoor	CE	RoHS	WARRANTY 3 YEARS	Anti yellowing

Product Specification

LED strip colloid specifications comparison

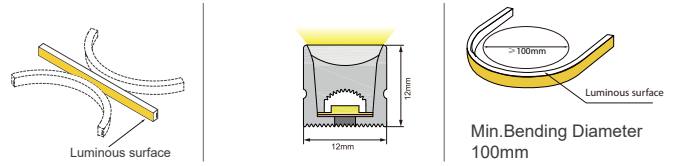| Main parameters / Materials	Silicone flexible led strip	PVC flexible led strip	Notes
Colloid features in -40℃	No crack after 30 days	Totally cracked	The low temperature resistant of silicone is superior than PVC or epoxy materials
Colloid features in 120℃	No obvious change after 72 hours	Colloid changed into yellow and deformed after 2 hours	The high temperature resistant of silicone is superior than PVC or epoxy
Colloid features in 180℃	No obvious change after 72 hours	Colloid changed into brown and some melted after 20 minutes	Over 150℃, PVC is easily hydrolyzed, Viscosity becomes weaken and easily seperated
Steadily lighted in Seawater for 72 hours	No obvious change	Serious atomization on the surface	The waterproof grade of silicone led strip can reach to IP67, high resistance to acidic alkali and salt properties
Thermal conductivity	Good thermal conductivity	No thermal conductivity	Pvc and epoxy cannot conduct heat, while silicone has good thermal conductivity

Product features

• Anti-yellowing and heat resisting silicone glue, chemical resistance acid and alkaline,available for extremely terrible outdoor environment.

• Uniform and soft luminance, no light spot.

• Super brightness large chip, golden wire welded and copper led holder for quicker heat dissipation, higher stability, longer life span.

• Leadless SMT technique (RoHS certificated), smooth welding joint, firm connection of led and pcb.

ShenZhen Surmountor Lighting Co., LTD

TEL: +86-0755-27926119/27926326   E-mail: sales@surmountor.com   ADD:4/F, No.2 Factory Building, Dayang, No.4 Tangwei Industrial Avenue, FuHai Street, Bao'an, Shenzhen, China   1/8

Specification

Bending (Silicone)

Min.Bending Diameter
100mm
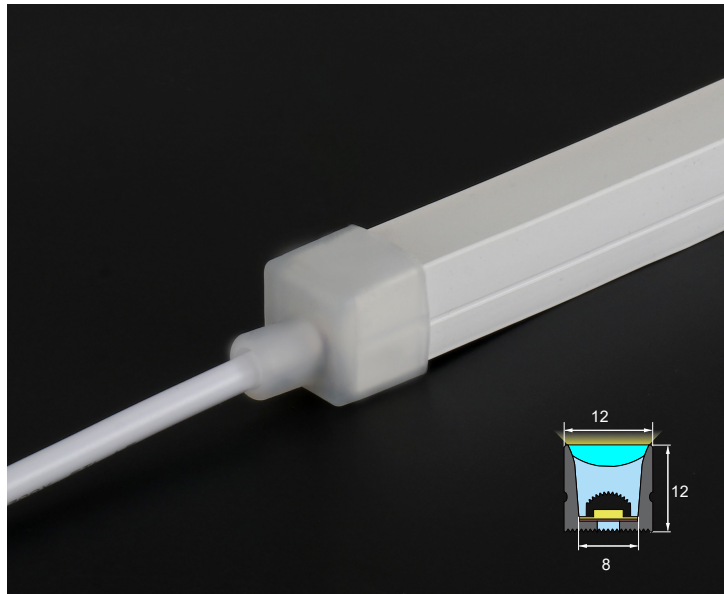
IP 67	Flame	UV	Solvents	Saltwater
IP67 Protection	Flame Resistant	UV Resistant	Solvents Resistant	Saltwater Resistant
Dirt Resistant	CRI90	3 Years Warranty	Ambient Working	Anti Yellowing

Model Number	N1212D-TOP	Size (mm)	12*12
PCB Limited (mm)	8mm	IP Grade	IP67
Working Temperature	–25 to 60°C	N.W.(G/M)	200g

Dimensions of light

300mm   L≈5000mm   300mm

12mm

12mm
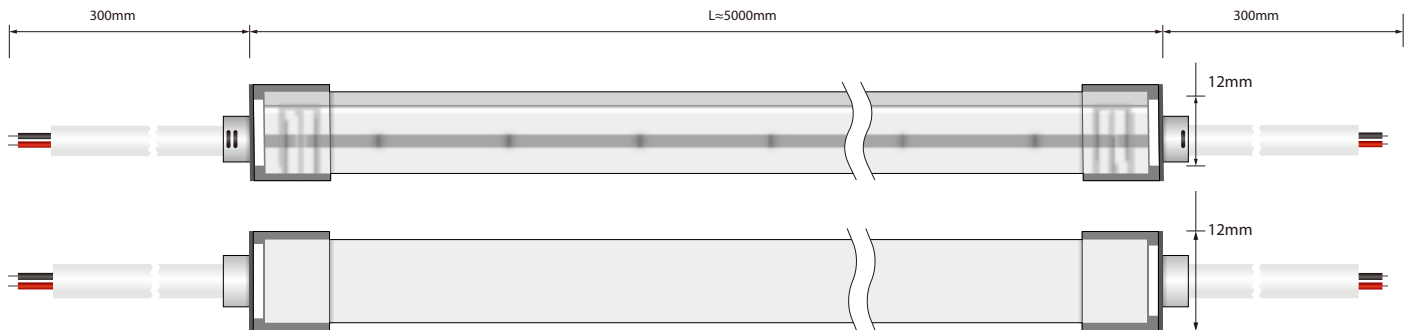
VARIOUS CONNECTIONS

Silicone glue endcap

front cable entry

bottom entry

closed

Recommend LED strip parameters

(1) N1212D-TOP WHT

SMD2835, 120LED/meter									
Part number	Color		Lumen/M CRI 80	Lumen/M CRI 90	Unit cut	Cut every (LEDS)	LED Qty/M	Voltage	Power/M	Max run length
SUR-2835FW120-24V	WW	🟨	655	590	50mm	6	120	24V	9.6W	5 meters from one end
	NW	🟨	684	616						
	CW	⬜	673	606						

(2) N1212D-TOP TW

SMD3527, 120LED/meter, Dual color.									
Part number	Color		Lumen/M CRI 80	Lumen/M CRI 90	Unit cut	Cut every (LEDS)	LED Qty/M	Voltage	Power/M	Max run length
SUR-3527FW120-24V	WW	🟨	288	259	50mm	6	120	24V	4.8W	5 meters from one end
	CW	⬜	292	263						

(3) N1212D-TOP RGB

SMD3838RGB LED Strip, 120LED/meter									
Part number	Color		Lumen/M	Unit cut	Cut every (LEDS)	LED Qty/M	Voltage	Power/M	Max run length
SUR-3838RGB120-24V	Red	🟥	54	50mm	6	120	24V	3.2W	5 meters from one end
	Green	🟩	175						
	Blue	🟦	38						

(4) FC-N1212D-TOP WHT

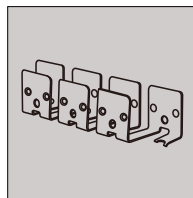| SMD2835, 180LED/meter									
Part number	Color		Lumen/M CRI 80	Lumen/M CRI 90	Unit cut	Cut every (LEDS)	LED Qty/M	Voltage	Power/M	Max run length
SUR-2835FW180-24V	WW	🟨	673	606	cut anywhere	1	180	24V	9.6W	5 meters from one end
	NW	🟨	708	637						
	CW	⬜	696	626						

N1212D-Accessories
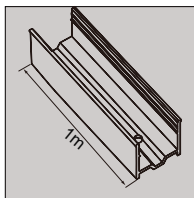
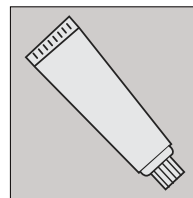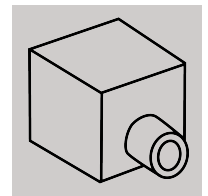
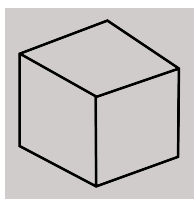LED profile: 1m/pc
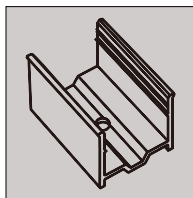
Mounting clip (Optional)

Curved profile 1m/pc
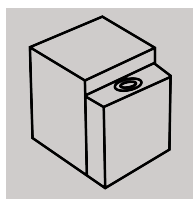

Glue

Silicone endcap -front

Closed silicone endcap

Silicone endcap -bottom

Cable

Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		0D: 4.0mm /Inner core: 20AW/G	●●	Red V+,Black V-
		0D: 4.5mm /Inner core: 20AW/G	●●○	Black V+,White W,Yellow WW
		0D: 4.5mm /Inner core: 20AW/G	●●●●	Black V+,Blue B,Green G,Red R

Note: For more accessories, please contact our sales.
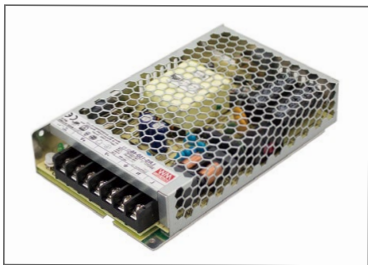
Driver & Cotronller

Order code: XLG-150-24-A
AC100-305V DC24V 150W
IP67, Global certification.
Non Dimmable.

Order code: ELG-150-24B
AC100-305V DC24V 150W
IP67, Global certification 3in1
dimming function: 0-10Vdc,
10V PWM signal and resist-
ance.

Order code: ELG-150-24DA
AC100-305V DC24V 150W
IP67, Global certification
Dali control technology.

Order code: ELG-150-24DA
AC100-305V DC24V 150W
IP67, Global certification Dali
control technology.

CCT Adjustable- 2 Channel
DC12V/24V,6A, CCT adjusta-
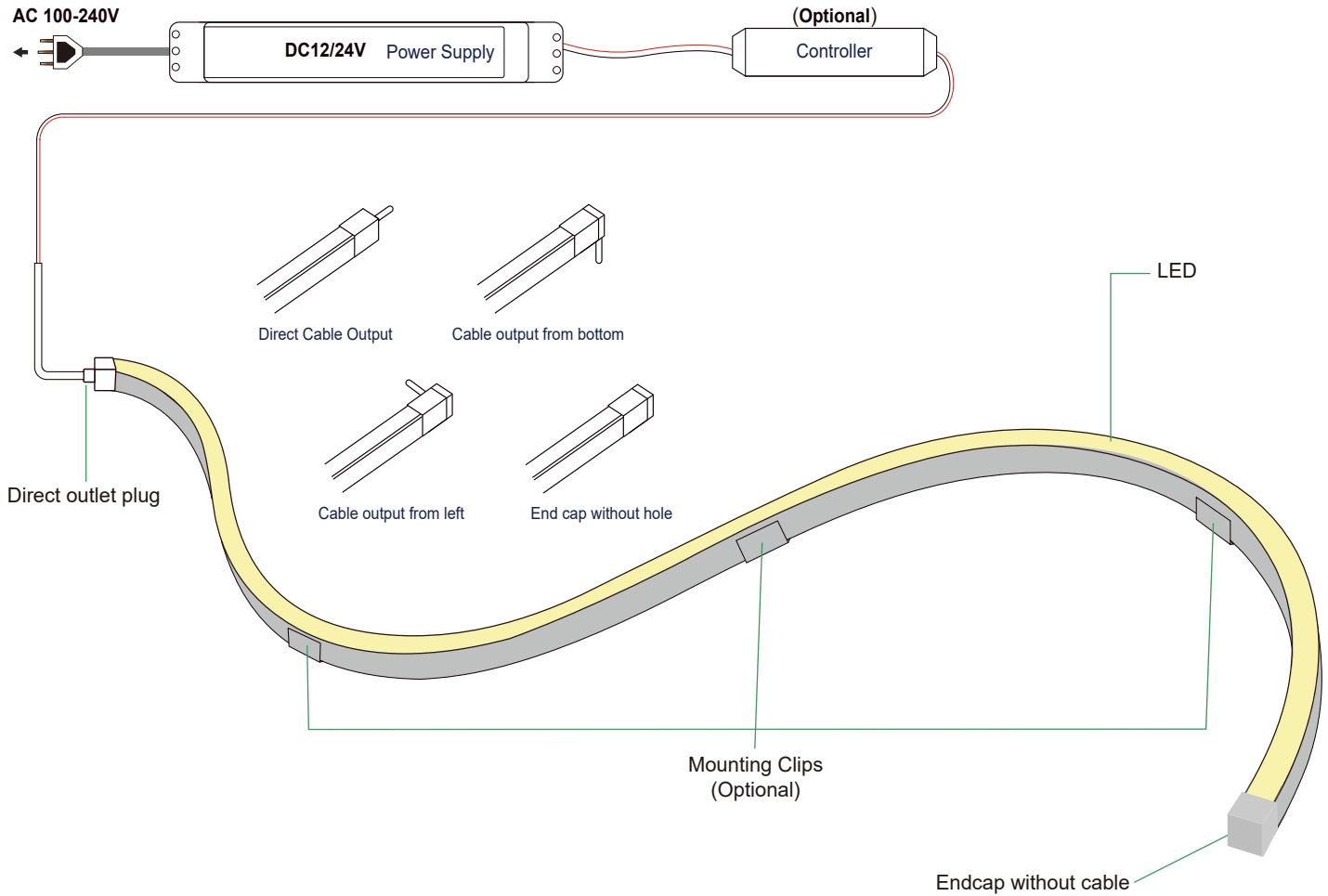ble, RF remote with finger
touch ring.

RGB Controller： 3 Channel
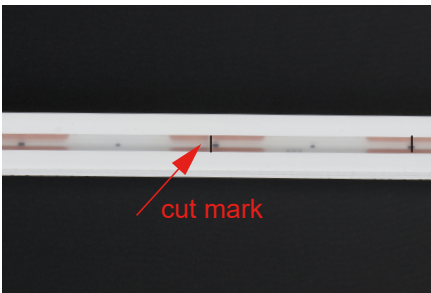DC12V/24V, 6A RGB controller,
RF remote with finger touch
ring.

Dimmer:1 Channel
DC12V/24V, 6A, Dimmer, RF
remote with finger touch ring.

Product system solutions

AC 100-240V

DC12/24V Power Supply

(Optional) Controller

LED

Direct Cable Output

Cable output from bottom

Cable output from left

End cap without hole

Direct outlet plug

Mounting Clips
(Optional)

Endcap without cable

Cut mark

cut mark

Remarks: There is a ctransparent window at the bottom of the light strip,

Make precise vertical cuts at the exact cut position of the light strip.
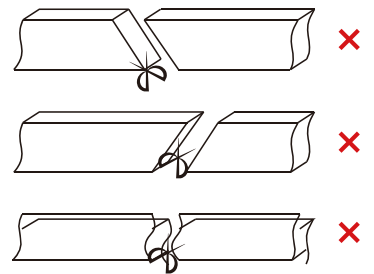
Please do not arbitrarily cut or cut into a bevel and arc section.

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Installation

This product is suitable for surface mounting or embedded sealing installation. Recommended slot size: Width 12mm, Depth 12mm, gently press the neon sleeve into the slot.
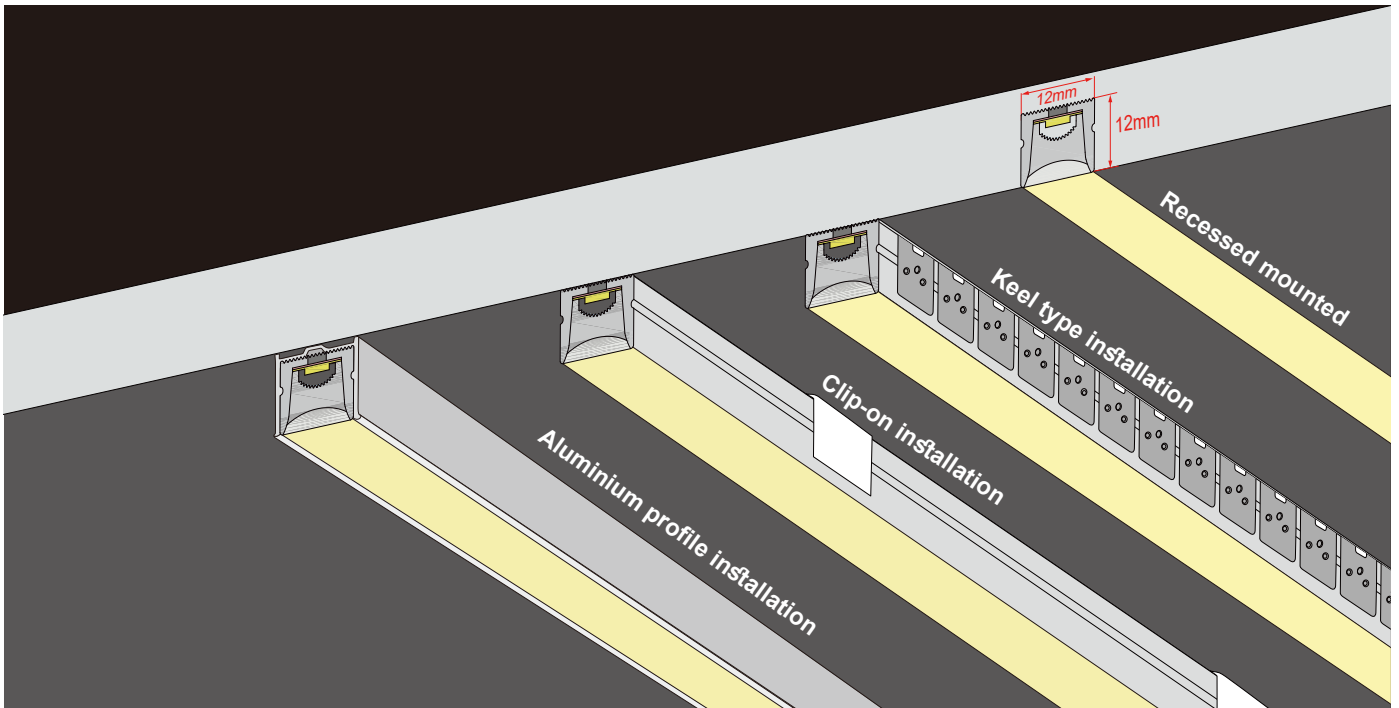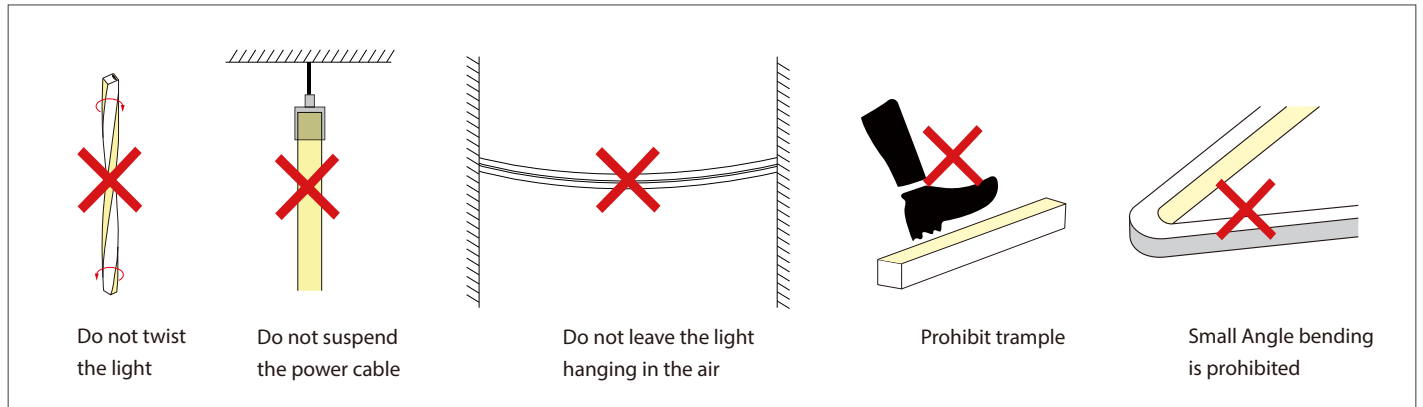

Installation of carrier

1. When installing the LED strip, install it from both ends at the same time, installation from one direction is prohibited.

⚠ If the length of LED strip is over 2m, it is recommended to install by two persons.

2. Use tool to disassemble carefully,and do not pull the LED strip directly.

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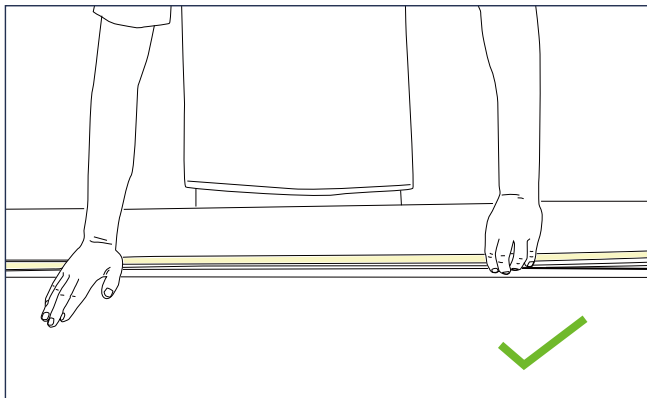
Cautions

- Please notice that the strips are not bendable to all directions. As the appropriate specific shape and degree, please follow the following instruction.
- LED strips are low voltage products, you must use the power supply (transformer). Please don't connect the led strip directly to the AC 110V or AC 220V. Otherwise, it will burn out the LED strips and lead to safety (security) accidents.
- Please read the specifications thoroughly before installation by professional staff to make sure the safe use.

Wrong bending way

Do not twist the light

Do not suspend the power cable

Do not leave the light hanging in the air

Prohibit trample

Small Angle bending is prohibited

Correct bending way

- Please press the led strip with your palm to slowly insert the led strip into the groove, and gently straighten the led strip above the groove with your right hand.
- Try to keep the led strip in a flat state during the installation process.
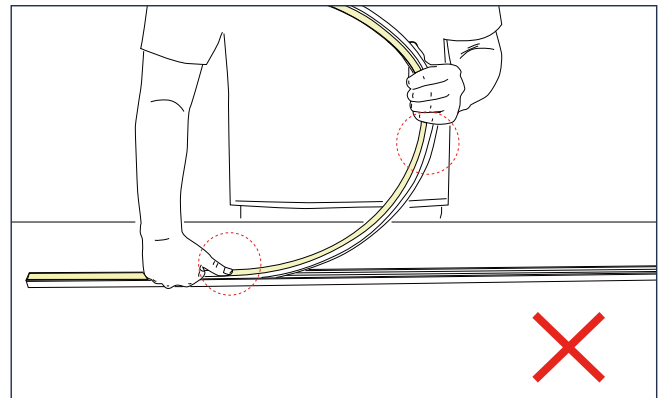
- Do not press the led strip with a single finger, it is easy to damage the internal parts of the led strip.
- The bent arc of the led strip should not be too large during installation.

Installation Precautions -- Side Mounted

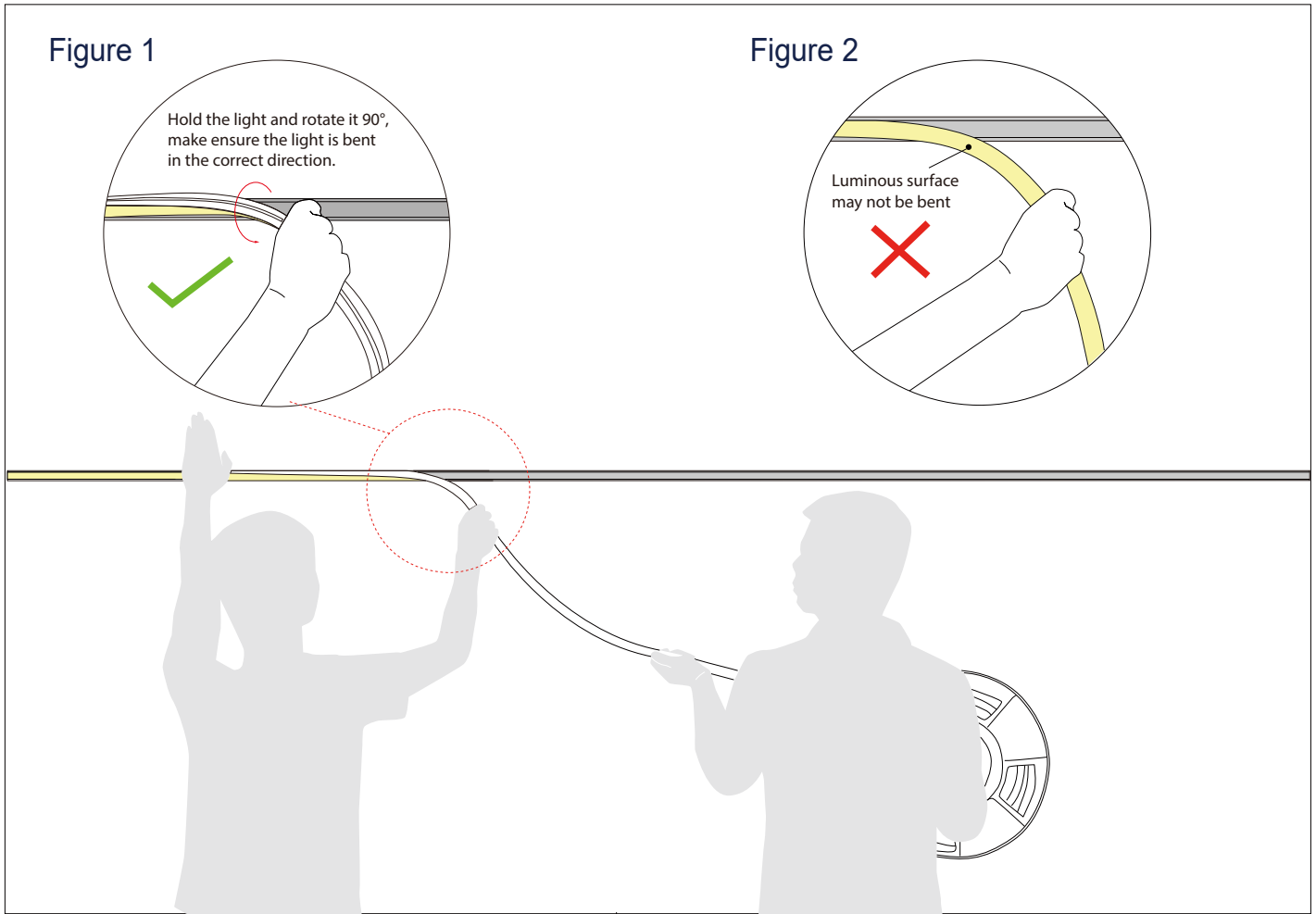(If the length of the light is more than 2 meters, two persons must work together to install it.)
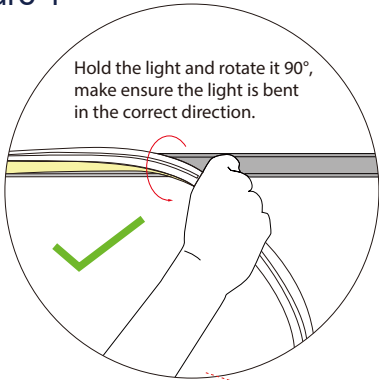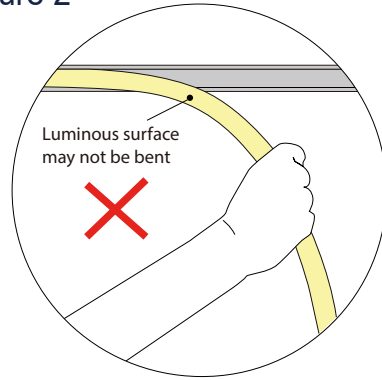
Figure 1

Hold the light and rotate it 90°, make ensure the light is bent in the correct direction.

Figure 2

Luminous surface may not be bent

1.Installer:

- Press the light with the palm of the left hand to slowly load it into the slot. Straighten the light with right hand, hold it and rotate it 90° to droop it in the direction of your hand. See Figure 1.

- Do not bend the luminous surface to the side. See Figure 2.

2. Assistant:

- Cooperate with the installer to lift the reel of the light, and then slowly deliver the light to installer. Do not pull or twist the light during the installation.

Package of neon strip (5M/Roll)

5m/Roll

Pack in Anti-Static bag

Put 15 plates per carton

Pack with Outer Carton
Size: L41*W41*H32CM