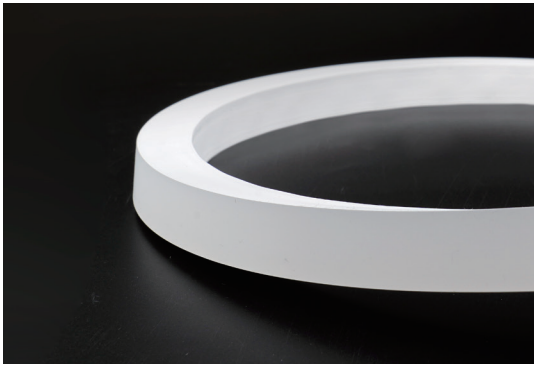# GRILITELUX

PRODUCT SPECIFICATION
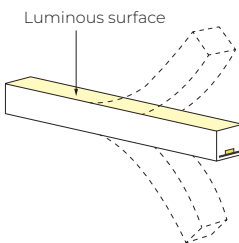
TOP BEND NEON STRIP

- **Top Bend**

T2222

- High light transmittance, environmental protection grade Slicone material, integrated extrusion molding process
- Unique optical light distribution structure design, surface light uniform without shadow
- IP67 protection grade, salt solution resistance, acid and alkali corrosion resistance, UV resistance
- Excellent toughness, simple and stylish appearance, exquisite and unique
- 5 years warranty, long-life LED≥ 50,000 hours

Dimension structure (Unit: mm)

5006±7.0   300±15

22.0

22.0

22 ±0.2

22 ±0.2

Cross section

≥300mm

Luminous surface
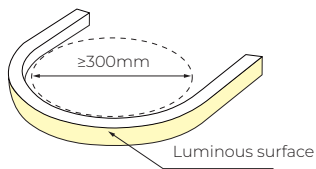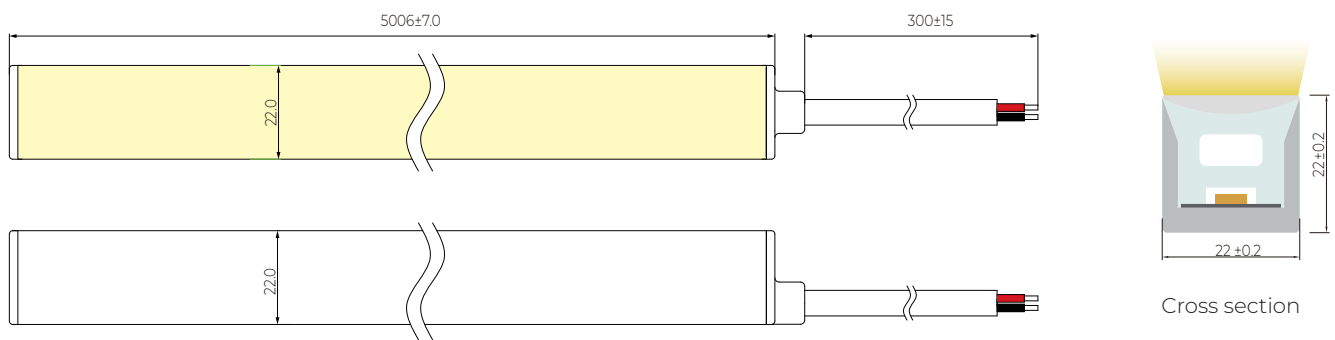
Min Bending diameter

Luminous surface

Bend vertical only

Electrical Parameter

Voltage	LED PIN Temperature	Storage Temperature	Ambient Temperature
DC24V	Max. 65℃	-25℃~60℃	Min.-25°C Max(Table below)

Specification

Power (w/m)	Efficacy (lm/w) @4000K	Max Ambient Temperature
5	55.5	55℃
10	51.1	45℃
15	48.5	35℃

Due to the tolerance of the production and electrical components, output value and electrical power can very up to 10%

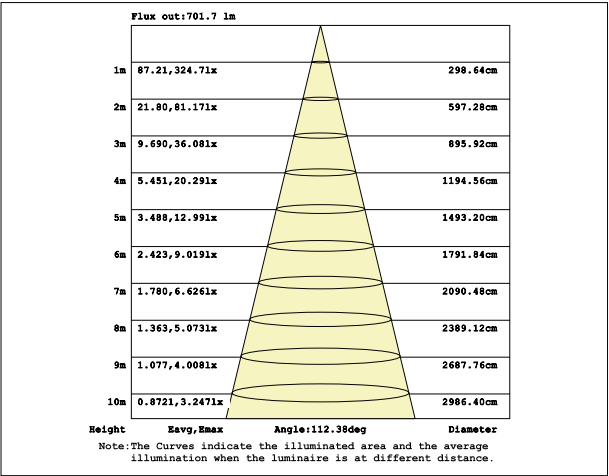## Length Standard

Length Range (M)	Final Length (mm)		Tolerance (mm)
	Integral end cap	Silicone end cap	
0<Neon Strip(L)≤5	L+6	L+4	±7

Light Distribution Curve

−/+180

−150 150

−120 120

−90 90

0
70
140
210
280
350
0

−60 60

−30 30

UNIT:cd
—— C0/180,112.4
—— C90/270,112.8

AVERAGE BEAM ANGLE(50%):112.6 DEG

Illuminance curve

Flux out:701.7 lm

Height	Eavg,Emax	Angle:112.38deg	Diameter
1m	87.21,324.7lx		298.64cm
2m	21.80,81.17lx		597.28cm
3m	9.690,36.08lx		895.92cm
4m	5.451,20.29lx		1194.56cm
5m	3.488,12.99lx		1493.20cm
6m	2.423,9.019lx		1791.84cm
7m	1.780,6.626lx		2090.48cm
8m	1.363,5.073lx		2389.12cm
9m	1.077,4.008lx		2687.76cm
10m	0.8721,3.247lx		2986.40cm

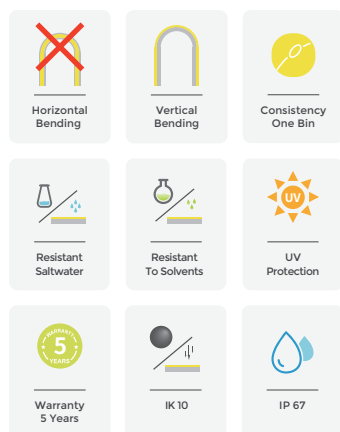Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

Note: The above date is based on 24V ,10W/M,single colour with 4000k colour temperature.If you need IES files for other types.Please contact our sales department.

Parameter Table

Horizontal Bending

Vertical Bending

Consistency One Bin

Resistant Saltwater

Resistant To Solvents

UV Protection

Warranty 5 Years
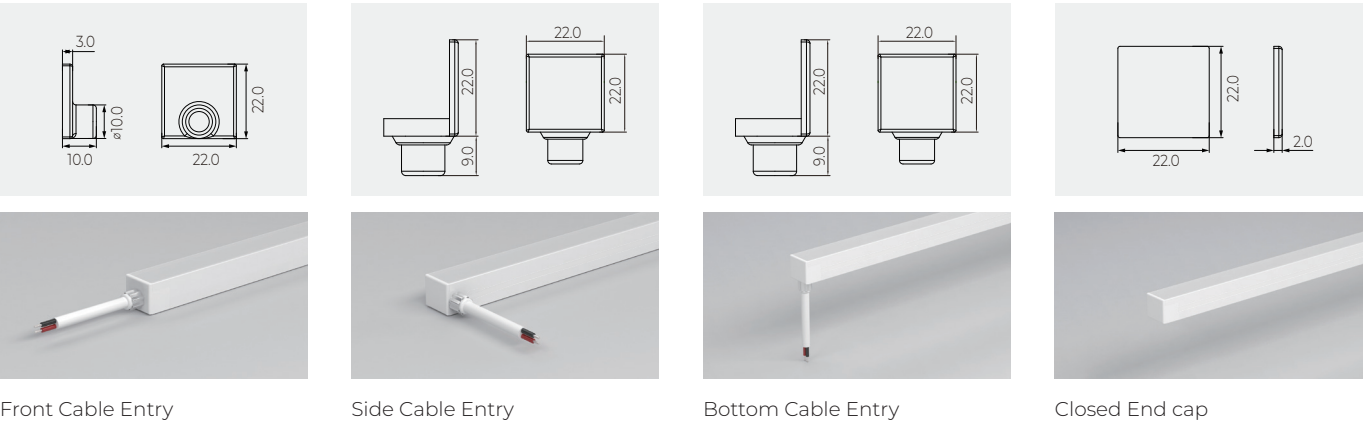
IK 10

IP 67

- The maximum series length refers to the maximum length of the light strip with single-end power supply in series under the standard 30CM cable.
- The given color temperature is the temperature of finished product.
- The given data are typical values due to the tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.
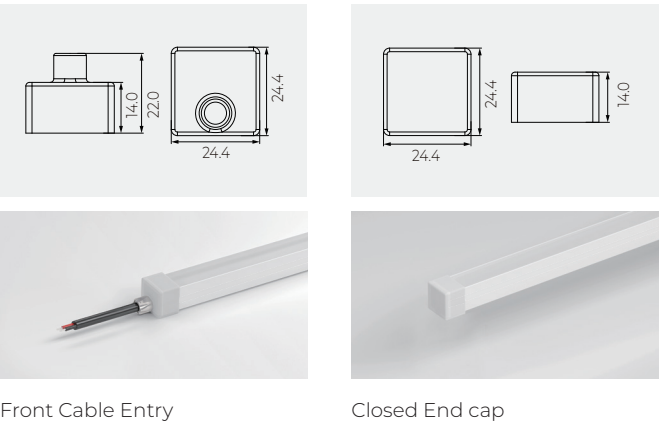- All products can be dimmed; the dimmer's voltage should conform to the rated voltage of the led light.

CCT(K)	RA	Voltage	Power(W)	Lumen (LM/M)	Efficiency (LM/W)	Unit Length (mm)	Max.run length(m)	CC/CV
1800±100	≥90	DC24	5	216	43.2	50	5	CV
			10	397	39.7	50	5	CV
			15	554	37.0	50	5	CV
2100±150	≥90	DC24	5	242	48.3	50	5	CV
			10	445	44.5	50	5	CV
			15	620	41.4	50	5	CV
2400±150	≥90	DC24	5	267	53.4	50	5	CV
			10	491	49.1	50	5	CV
			15	685	45.7	50	5	CV
2700±150	≥90	DC24	5	282	56.4	50	5	CV
			10	519	51.9	50	5	CV
			15	724	48.3	50	5	CV
3000±150	≥90	DC24	5	289	57.7	50	5	CV
			10	531	53.1	50	5	CV
			15	741	49.4	50	5	CV
3500±200	≥90	DC24	5	299	59.8	50	5	CV
			10	550	55.0	50	5	CV
			15	767	51.2	50	5	CV
4000 +400 -200	≥90	DC24	5	278	55.5	50	5	CV
			10	511	51.1	50	5	CV
			15	728	48.5	50	5	CV
5000 +500 -300	≥90	DC24	5	302	60.4	50	5	CV
			10	556	55.6	50	5	CV
			15	775	51.7	50	5	CV
6500±500	≥90	DC24	5	281	56.2	50	5	CV
			10	517	51.7	50	5	CV
			15	721	48.0	50	5	CV
Red	--	DC24	5	123	24.5	50	5	CV
			10	236	23.6	50	5	CV
			15	336	22.4	50	5	CV
Green	--	DC24	5	279	55.7	50	5	CV
			10	535	53.5	50	5	CV
			15	762	50.8	50	5	CV
Blue	--	DC24	5	52	10.3	50	5	CV
			10	99	9.9	50	5	CV
			15	141	9.4	50	5	CV
Yellow	--	DC24	5	93	18.5	50	5	CV
			10	178	17.8	50	5	CV
			15	253	16.9	50	5	CV
Orange	--	DC24	5	108	21.6	50	5	CV
			10	207	20.7	50	5	CV
			15	295	19.7	50	5	CV
Pink	--	DC24	5	241	48.3	50	5	CV
			10	463	46.3	50	5	CV
			15	660	44.0	50	5	CV

Cable Entry (Unit: mm)

Integral end cap (IP67)

Front Cable Entry

Side Cable Entry

Bottom Cable Entry

Closed End cap

Silicone end cap (IP67)

Front Cable Entry

Closed End cap
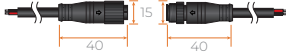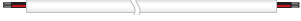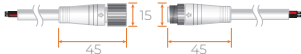
Cable

| Cable Type	Schematic Diagram	Specification	Core	Electrical Properties
PVC Cable		OD： 5.0mm / Inner core： 20AWG	●●	Red V+、 Black V-
Waterproof Connector with PVC Cable		OD： 5.0mm / Inner core： 20AWG M12Male / Female connecto	●●	Red V+、 Black V-
Silicone Cable		OD： 6.0mm / Inner core： 20AWG	●●	Red V+、 Black V-
Waterproof Connector with Silicone Cable		OD： 6.0mm /Inner core： 20AWG M12Male / Female connecto	●●	Red V+、 Black V-

Cutting Mark

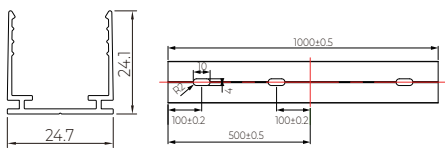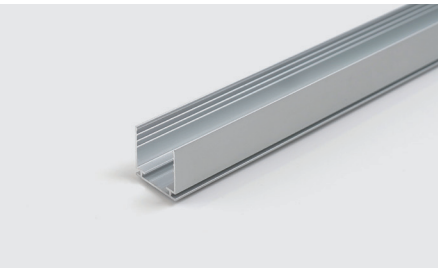
Remark:
The black marker is the cutting position

Use professional scissors to cut vertically at the cutting mark
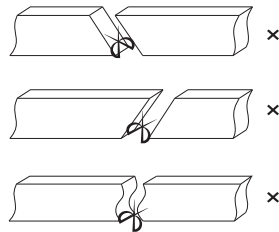
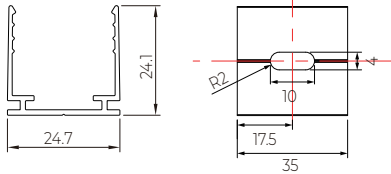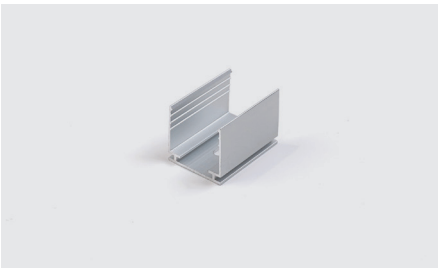Please don't be feel free to cut and cut into an oblique angle or cambered section.

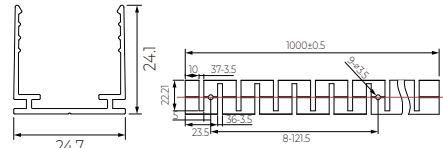## Accessories (Unit: mm)
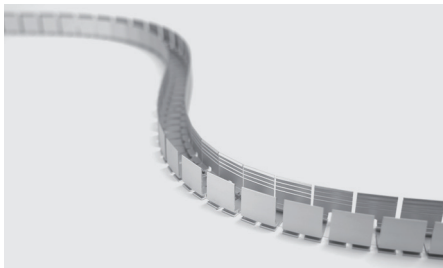
Aluminium Profile

Length:
1000X24.7X24.1
Accessories:
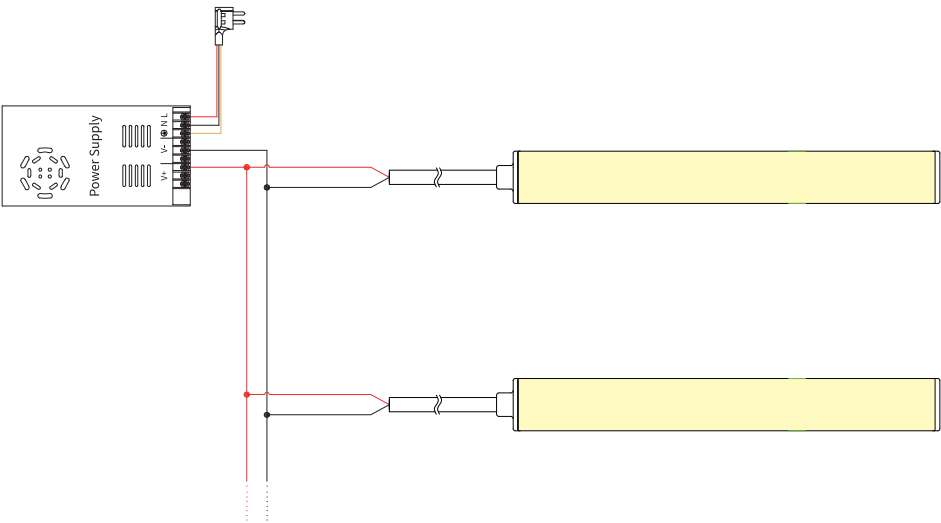Screw M3X16 (SUS304)

Aluminium Mounting clips

Length:
35X24.7X24.1
Accessories:
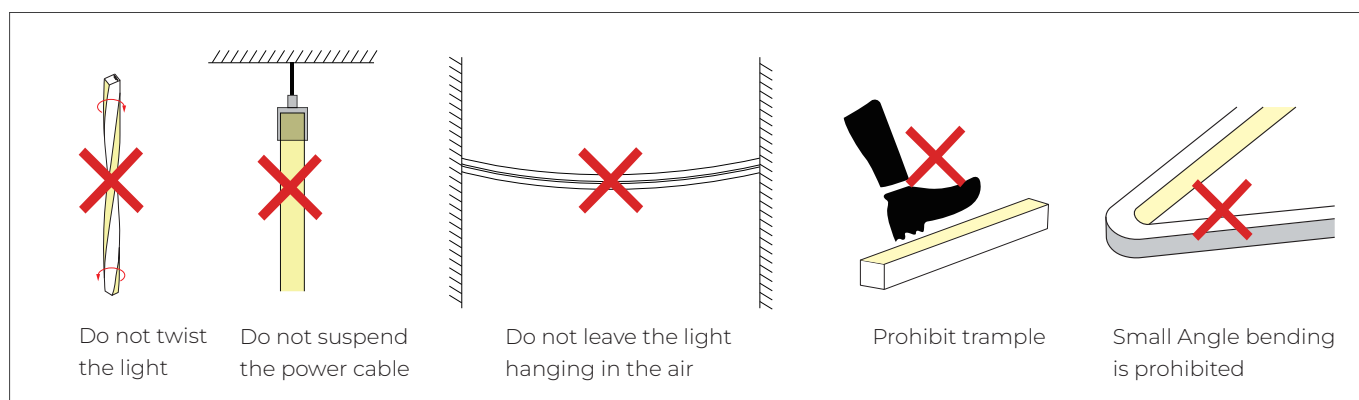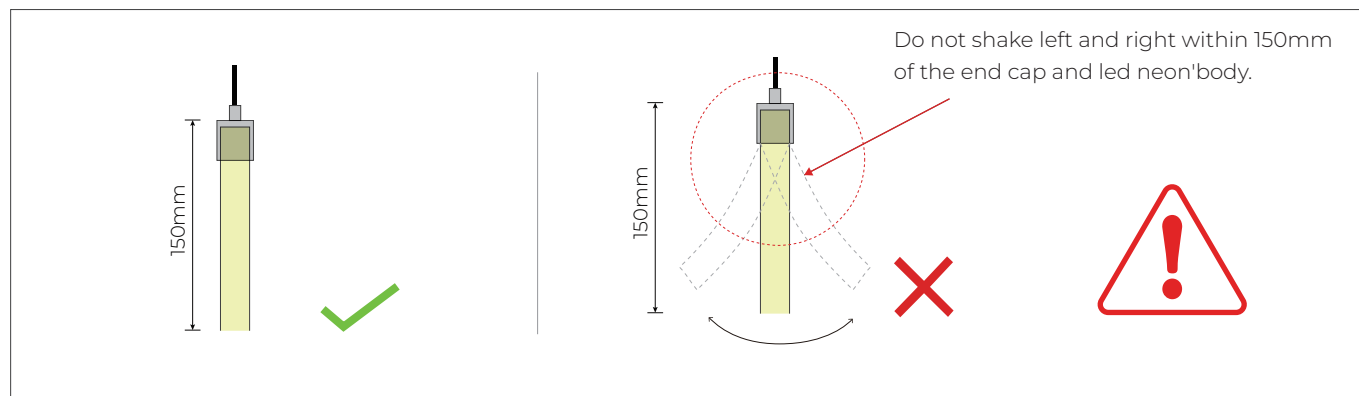Screw M3X16 (SUS304)

Curved profile

Length:
1000X24.7X24.1
Accessories:
Screw M3X16 (SUS304)

Single Color Connection Diagram

Installation Precautions

150mm

150mm

Do not shake left and right within 150mm of the end cap and led neon'body.

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

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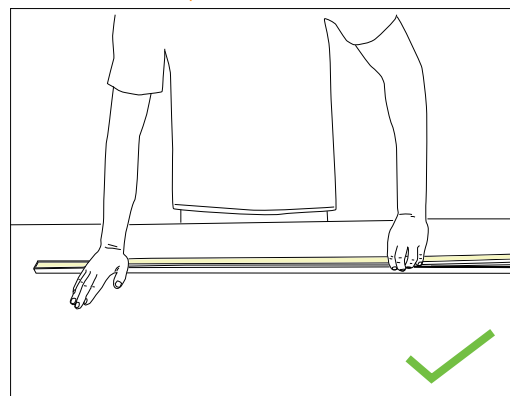
- Please press the led strip with your palm to slowly insert the led   strip into the groove, and gently straighten the led strip above the
- groove with your right hand.
  Try to keep the led strip in a flat state during the installation process.
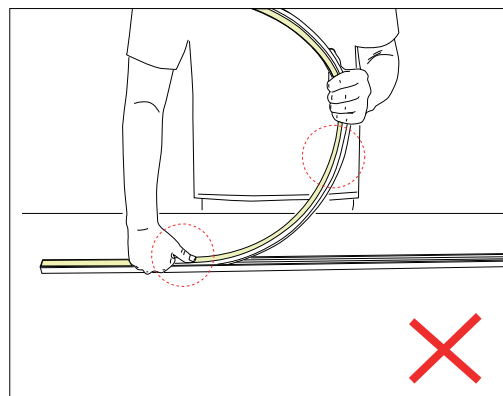
- Do not press the led strip with a single finger, it is easy to damage the internal parts of the led
- strip.
  The bent arc of the led strip should not be too large during installation.

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

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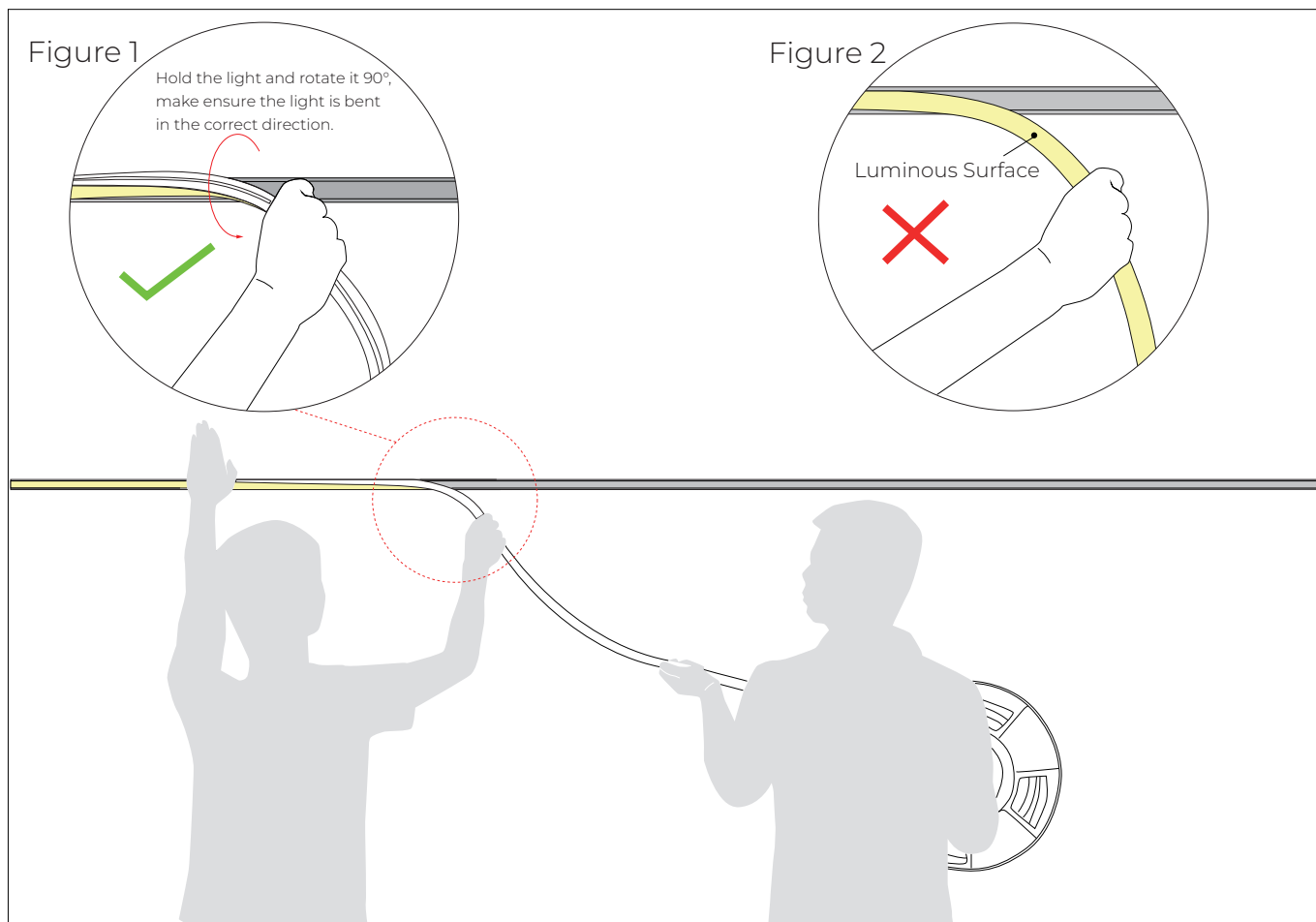
-Cooperate with the installer to lift the reel of the light, and then slowly deliver the light to installer. Do not pull or twist the light during the installation.

Installation Precautions -- Side Mounted

(If the length of the light is more than 5 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.
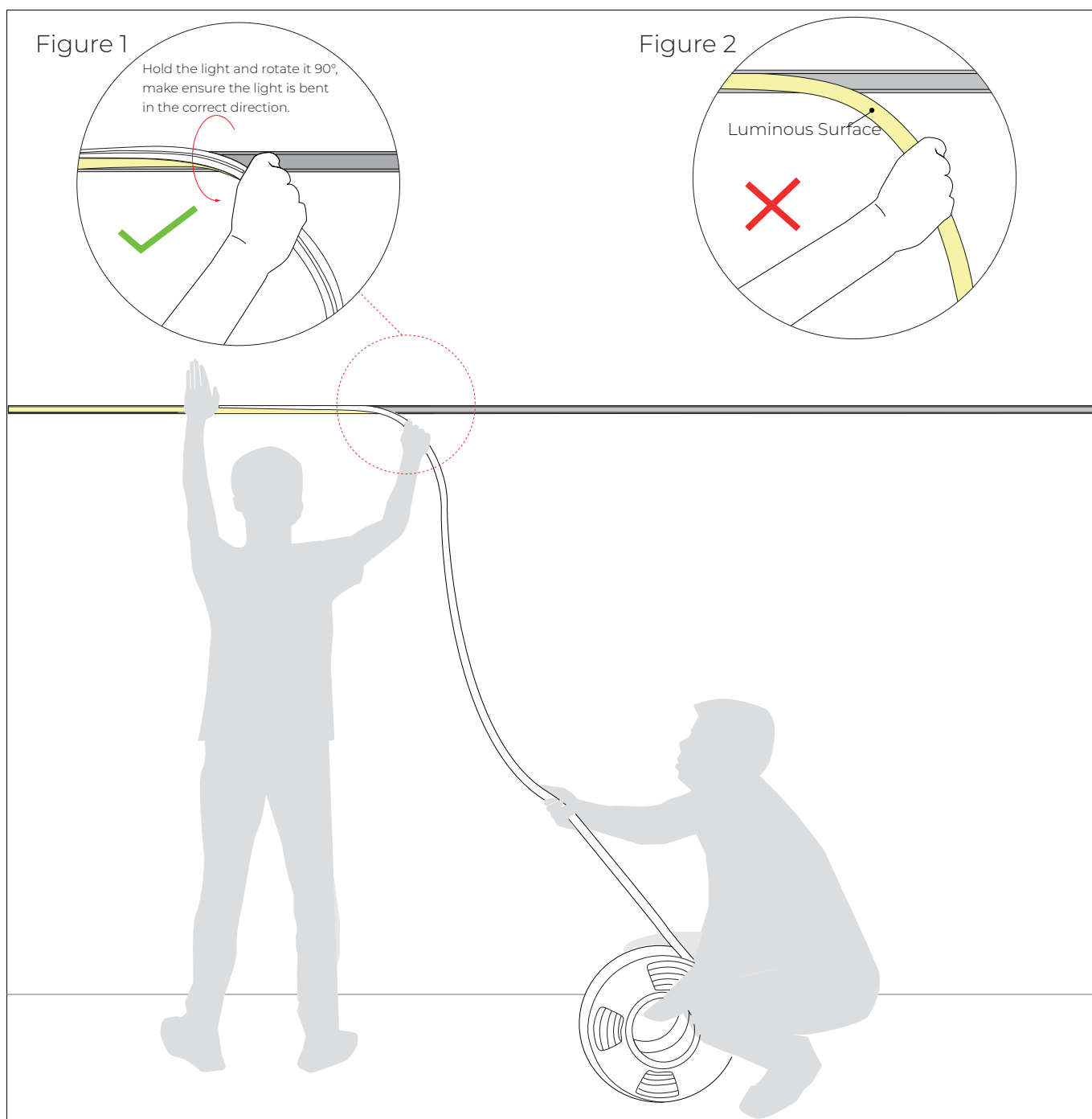
Figure 2

Luminous Surface

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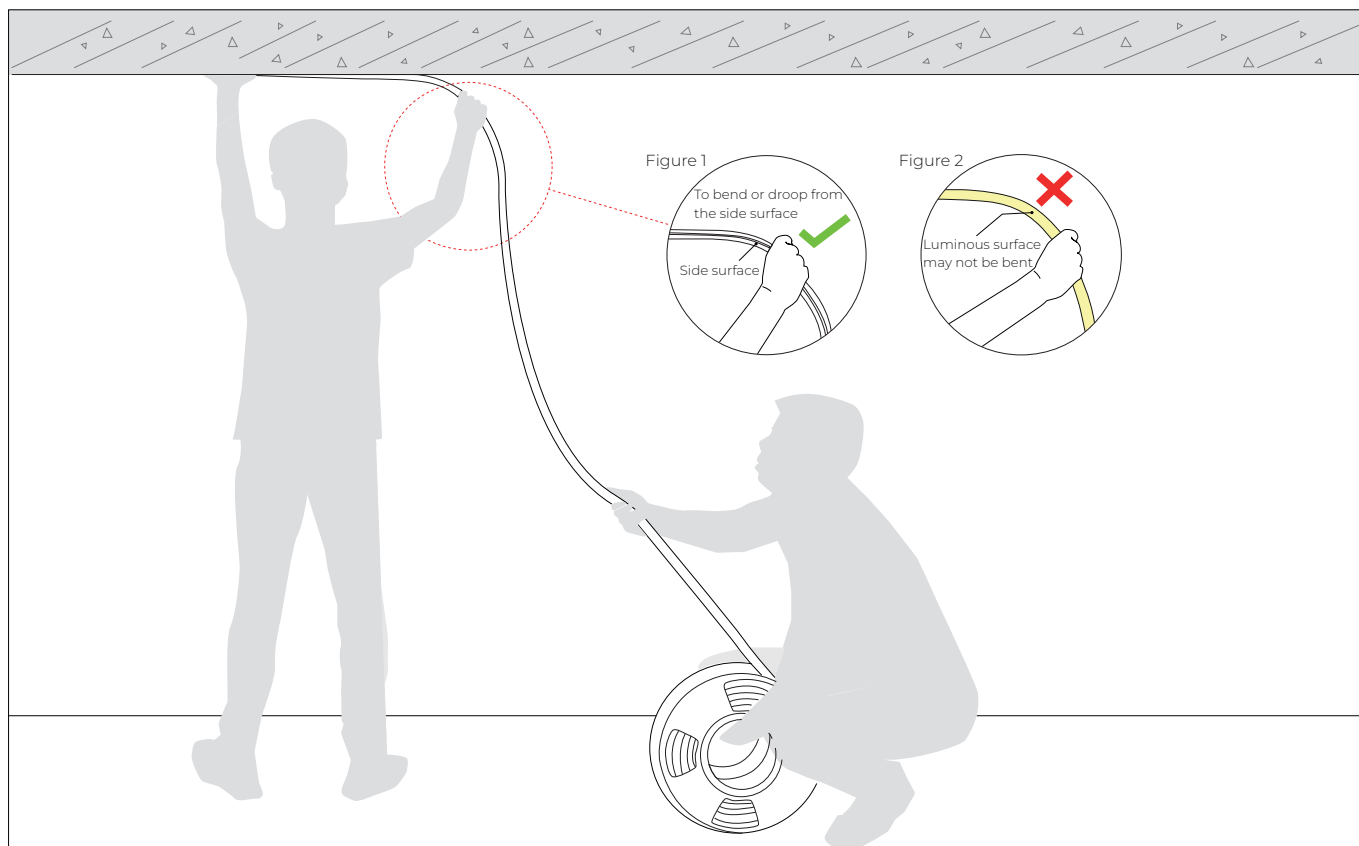-Do not bend the luminous surface to the side. See Figure 2.

2.Assistant:

-Cooperate with the installer to slowly deliver the light to installer. Do not pull or twist the light during the installation.

Installation Precautions -- Top Mounted

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

Figure 1
To bend or droop from the side surface ✓
Side surface

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 your right hand so that it droop naturally. See Figure 1.
-Luminous surface may not be bent. See Figure 2.

2.Assistant:

- Cooperate with the installer to slowly deliver the light to installer. Do not pull or twist the light during the installation.

Notes

The selection of the cable specification at the output end of the power supply,
it depends on the total current of the load and the length of the cable. It is recommended to select according to the following table:

Current of the light	Specifications of the cable								
	L=1M	L=2M	L=4M	L=6M	L=8M	L=10M	L=12M	L=14M	L=16M
1A	AWG26	AWG23	AWG21	AWG18	AWG18	AWG17	AWG16	AWG15	AWG15
2A	AWG23	AWG21	AWG18	AWG16	AWG15	AWG14	AWG13	AWG12	AWG12
3A	AWG22	AWG18	AWG16	AWG14	AWG13	AWG12	AWG11	AWG11	AWG10
4A	AWG21	AWG18	AWG15	AWG13	AWG12	AWG11	AWG10	AWG9	AWG9
5A	AWG20	AWG17	AWG14	AWG12	AWG11	AWG10	AWG9	AWG9	AWG8
6A	AWG18	AWG16	AWG13	AWG11	AWG10	AWG9	AWG8	AWG8	AWG7
7A	AWG18	AWG15	AWG12	AWG11	AWG9	AWG8	AWG8	AWG7	AWG6
8A	AWG17	AWG15	AWG12	AWG10	AWG9	AWG8	AWG7	AWG7	AWG6
9A	AWG17	AWG14	AWG11	AWG10	AWG8	AWG7	AWG7	AWG6	AWG5
10A	AWG16	AWG14	AWG11	AWG9	AWG8	AWG7	AWG6	AWG6	AWG5

※The unused light should be sealed with the packaging bag to avoid prolonged exposure.

※Please use DC24V isolated constant voltage power supply with ripple voltage less than 5%. Using other types of power supply may damage the light or cause other safety risks.

※In practical application, 20% allowance should be reserved for power supply to ensure the stability of power supply.

※It is recommended that professionals connect the power supply. Do not connect the power supply with live power to avoid electric shock.

※Please confirm whether the voltage of the power supply is consistent with the voltage of the light; Pay attention to the positive and negative poles of the power cord, do not

connect wrong, so as not to cause product damage;

※ When multiple power supplies are used, ensure that the positive poles of the power supply are not connected in parallel. Otherwise, the power supply system may be unstable or

damaged after long-term operation.

※ If the actual application length exceeds the specified length, it will lead to overload, heating and uneven brightness of the light.

※ During installation, please do not scratch, twist, or bend the light irregularly. Otherwise, the light may be damaged beyond repair.

※ To ensure the life and reliability of the light, please do not over bend the light, which will damage the product itself.

※ To protect your eyes, please avoid staring at the glowing surface of the light for a long time.

※ Non-professionals are forbidden to install, disassemble and maintain the product.

※ Do not use any acid or alkaline adhesive to fix the light (including but not limited to glass glue, etc.)

※IP67 products are not suitable for long-term immersion in water; IP68 products are only customized by the factory. After cutting and processing by users themselves, there is a

risk that IP68 protection level cannot be reached

※ Because of the difference in structure, even if the same color temperature value, different sizes of light will look slightly different colors. Please confirm it before use.

Tests showed that methanol and benzenes will have yellowing effects on silicone.
In the newly decorated interior environment, epoxy floor paint, wall paint, wallpaper adhesive, various decoration materials or new furniture, they are likely to release of methanol and benzenes.
It is recommended to remove methanol and benzenes first, or ventilate for a period of time in the newly decorated interior environment before install the silicone neon light, to avoid affecting the silicone body.

BE A TRUSTED LED STRIP MANUFACTURER