



TQ Lighting Silicone Neon Light Introduction

Questions

1. How is the silicone neon lights produced and the material used for silicone neon light?
2. What are the features and benefits?
3. Advantage and dis-advantage (if there's any) of using silicone neon lights.
4. How to properly install?
5. Using a dimmer, Indoor, and outdoor application.

CONTENTS

01

Product
List

02

Product
Feature

03

Product
Reliability

04

Installation
Guidance

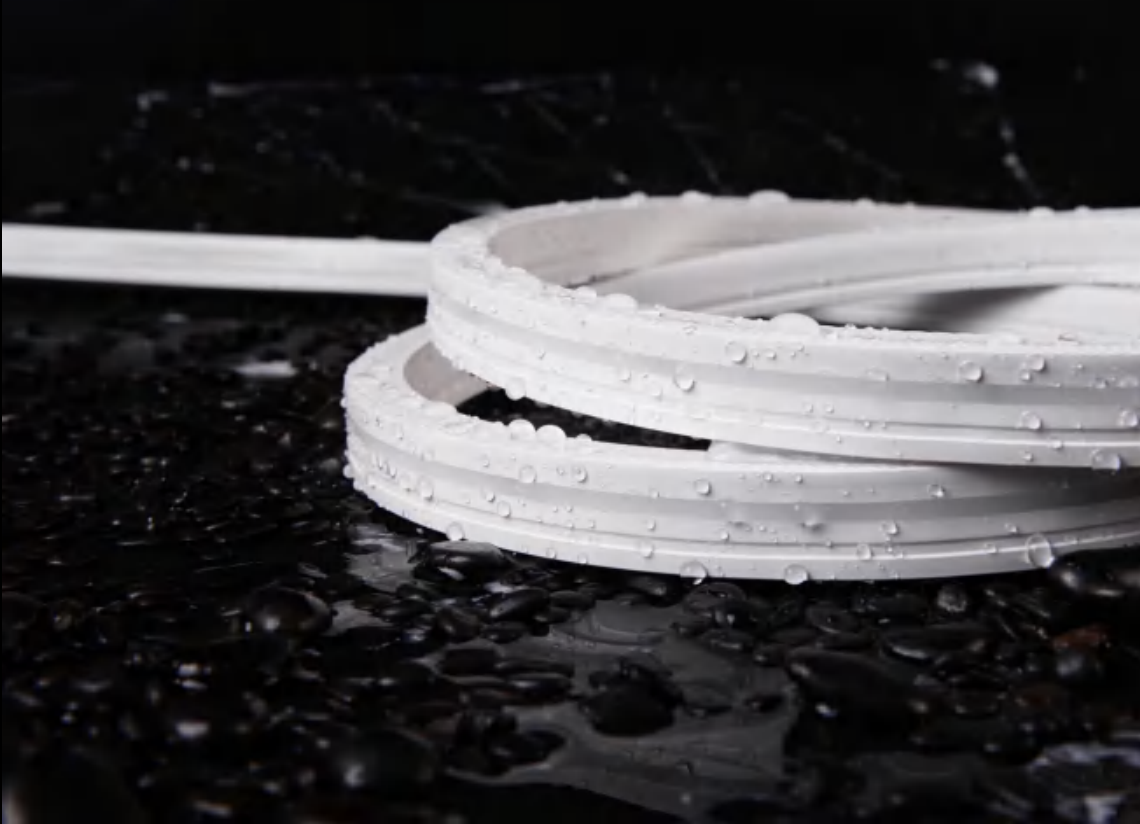
05

Package &
Sales Mode

01

Product List

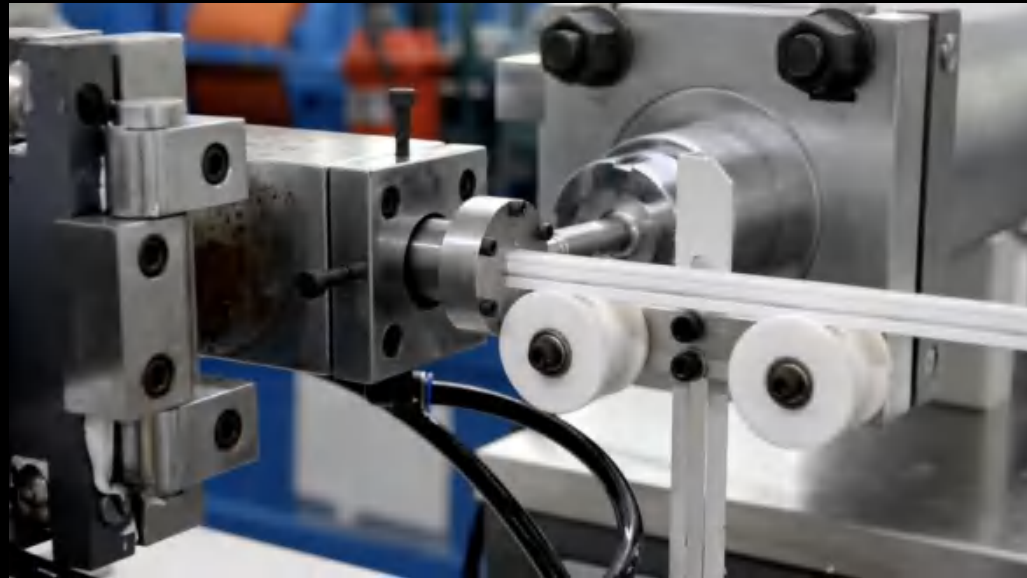
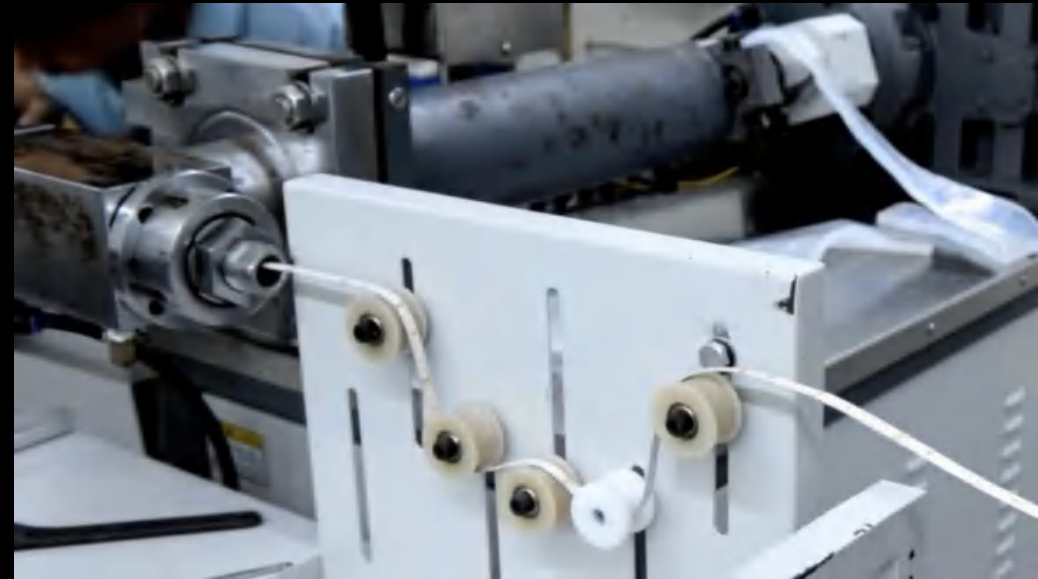
Silicone Neon Strip



Silicone neon strip is made of two-color silicone by integrated extrusion molding process, protection grade reaches IP67, with salt liquid resistance, acid and alkali resistance, gas corrosion prevention, fire prevention, UV resistance characteristics; It can be widely used in indoor and outdoor modeling design, corridor, eave corners and other places, play a decorative lighting effect.



Production process: silicone integrated extrusion molding



TQ Lighting Product Range: SILICONE NEON STRIP LIGHT

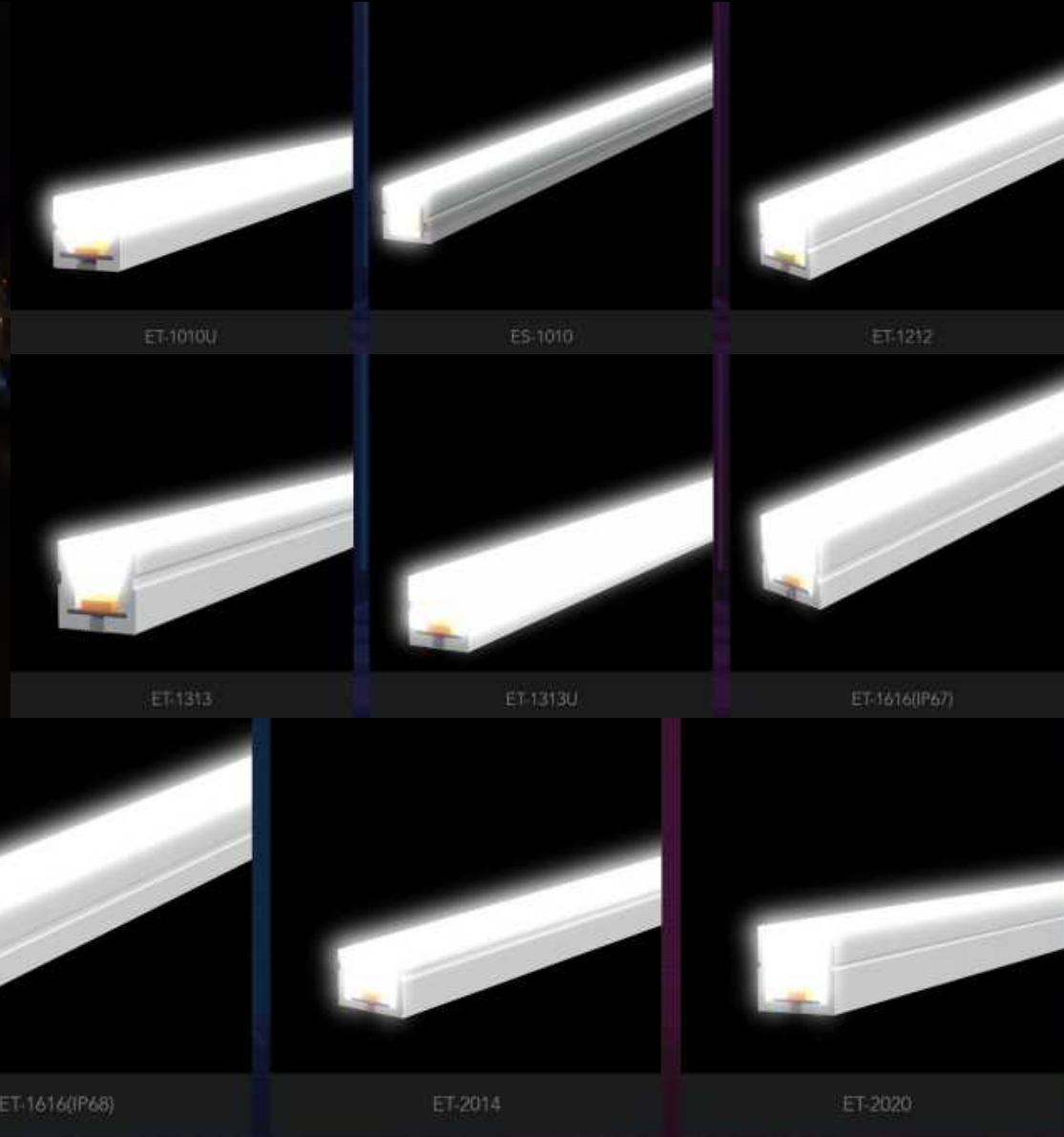


Vertical Bending (Top Bending) &
Horizontal Bending (Side Bending)
Silicone Neon Strip Light



360 degree
Silicone Neon Strip Light

TQ lighting Vertical Bend (Top Bend) silicone neon strip light



Vertical Bending (Top Bending)

Kinds of size for selection, can meet more requirement on architectural market.

TQ lighting Horizontal Bend (Side Bend) silicone neon strip light

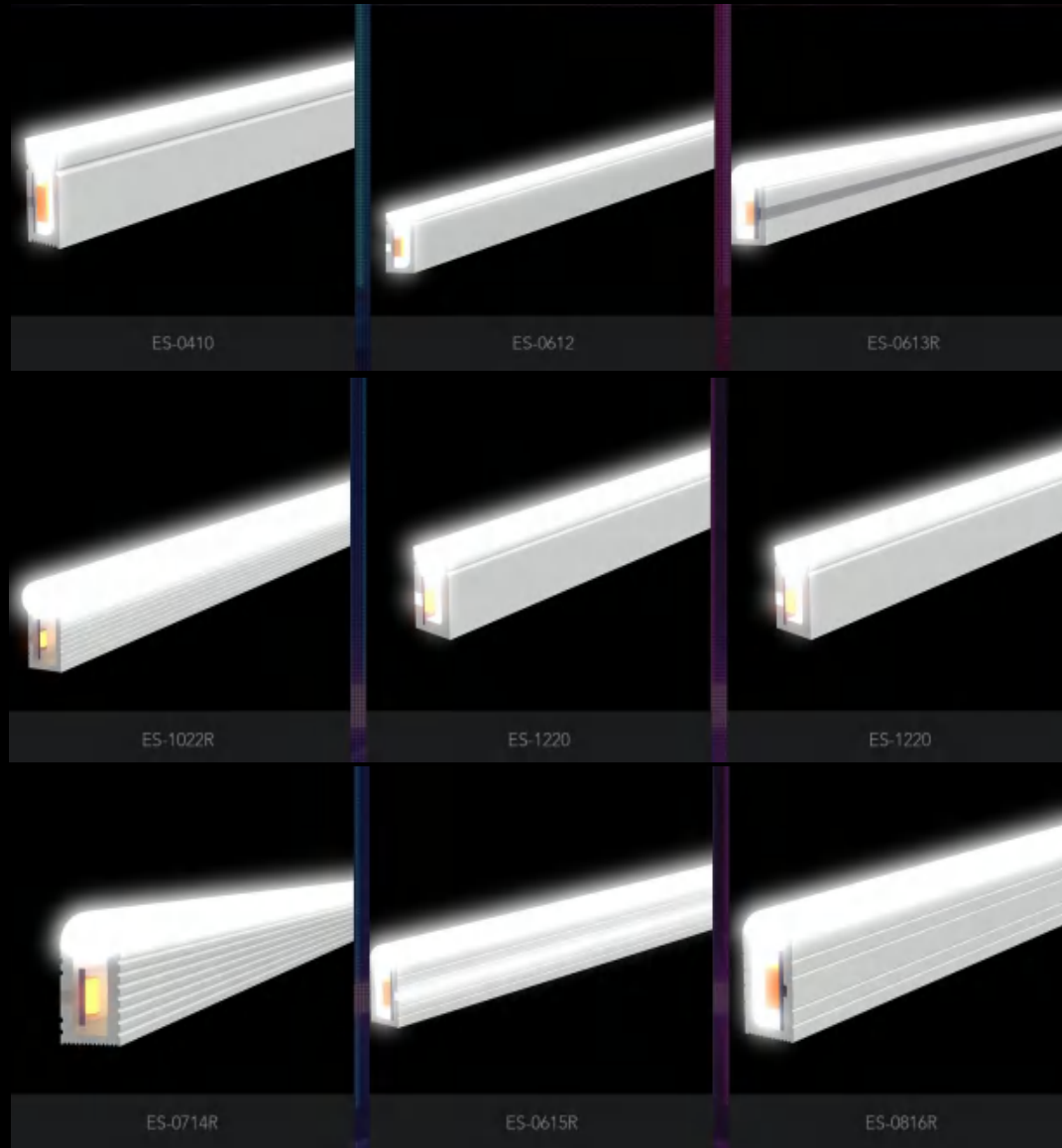


27mm
12mm
12mm

- UV Resistant
- Saltwater Resistant
- IP67 Protection
- LM80 Standard
- Ambient Working 50°C / -20°C
- High toughness



ES-1010 ES-1218 ES-1020



ES-0410 ES-0612 ES-0613R

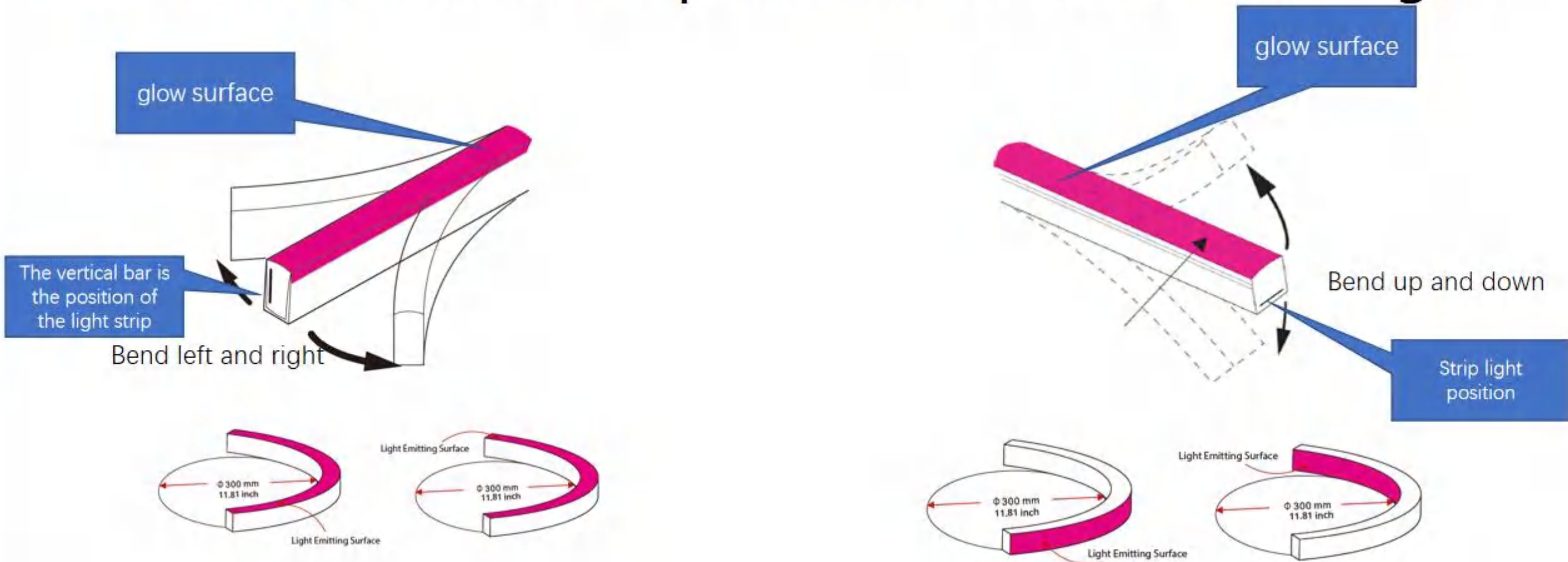
ES-1022R ES-1220 ES-1220

ES-0714R ES-0615R ES-0816R

Horizontal Bending (Side Bending)

Kinds of size for selection, can meet more requirement on architectural market.

Difference Between Top Bend & Side Bend Neon Light



Side Bend Neon Light

Top Bend Neon Light



Moonlight, Cambered Surface, Multicolor

02.

Product Feature

Ten Super Advantages of Silicone Neon Strip Light

Feature



**Uniform
Glowing**

- Special Light Design

**High Light
Transmittance**

- 60% transmittance, can achieve the highest 90%.

**Strong
Thermal
Conductivity
-Better Heat
Dissipation**

Silicone Thermal conductivity:
0.27W/MK,
Double than PVC:
0.14W/MK

**Excellent
Flexibility**

**Excellent
Weather
Resistance**

Storage:
-50°C to +150°C
Work:
-20°C to + 45°C

Application



**Excellent IP
Protection**

UV Resistance

**Corrosion
Resistance**

**Flame
Retardant &
Environmental
Protection**

**High
Substitutability**



Uniform Glowing

No Shadow, No Dots

Can look directly at the glowing surface, can be installed on highly reflective material surface and not dazzling;

Better outlook and wider application compare to Drop silicone glue strip;

Easier on installation and better protection compare to small aluminum linear light.



Open Neon Light

Inner Common Strip

Mirror high reflective surface

Matting diffuse reflective surface



■ Used on Highly Reflective Material



■ Look Directly at Luminous Surface



A hand is shown holding a glowing white flexible light strip. The strip is curved and emits a bright white light. The background is dark, making the light strip stand out. The hand is positioned on the right side of the frame, holding the strip. The strip starts from the top left, curves down and then up, and ends at the hand on the right. The light is very bright, creating a soft glow around the strip.

!

High Light Transmittance

60% transmittance, can achieve the highest 90%, super Flux, can not only be used for decoration, but also illumination.

90% Light
Transmittance



■ High Brightness Light Groove



!

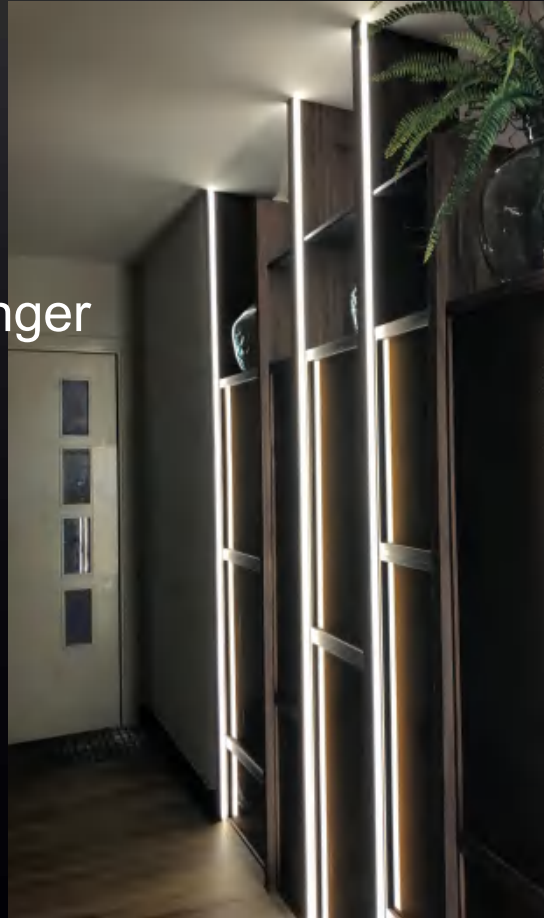
Strong Thermal Conductivity -Better Heat Dissipation

Silicone thermal conductivity:

0.27W/MK, double than PVC

thermal conductivity: 0.14W/MK,

With better heat dissipation, with longer
lifetime!





!

Excellent Flexibility

EASY-TO-BEND

Horizontal Bend

Vertical Bend



■ Bend

■ Modelling



! Excellent Weather Resistance

Storage:
-50°C to +150°C
Work:
-20°C to + 45°C



■ Bitter Cold



■ Heat Difference



■ Ice Sculpture



■ Tropical Desert



A stack of three white, circular, waterproof components, possibly caps or seals, covered in water droplets. The components are stacked on a dark, wet surface. A white cable is visible in the background. The overall scene is dark, emphasizing the white components and the water droplets.

!

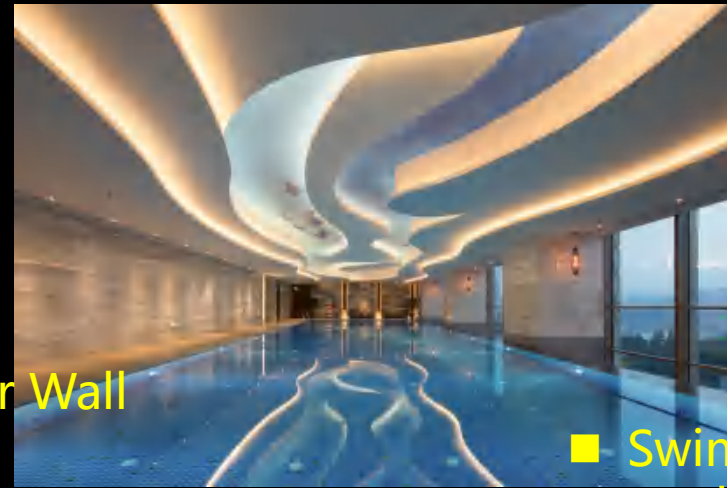
Excellent Waterproof & Dustproof Function

With standard cap, the main body can fully meet the outdoor application of IP67 standard, can pass the laboratory IP68 test standard;

IP67



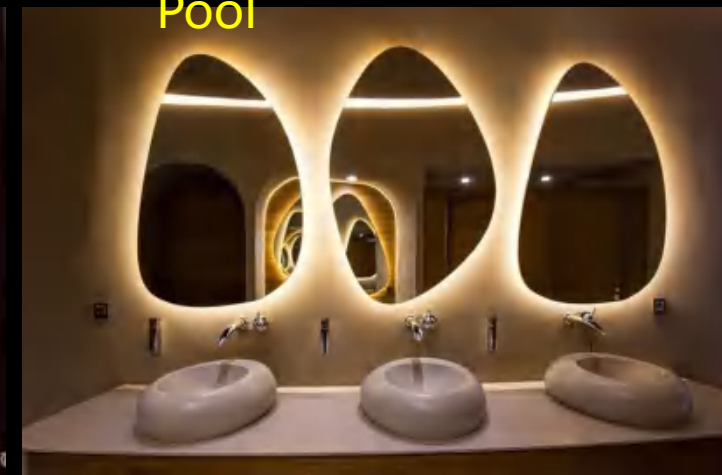
■ Outer Wall



■ Swimming Pool



■ Sauna



■ Bathroom



■ Outdoors



CREATO
ARCHITECTS



■ Waterscape

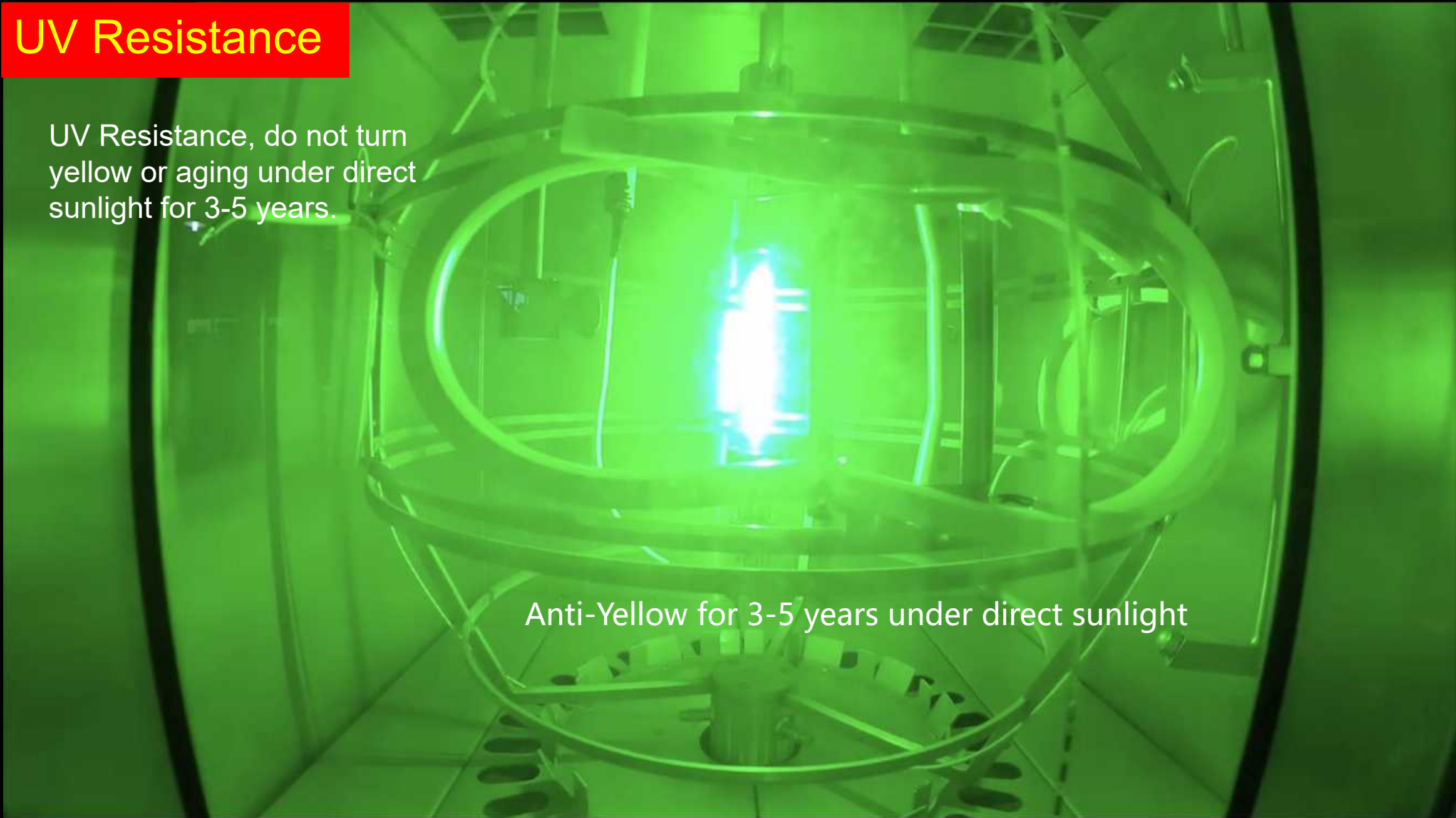




UV Resistance

UV Resistance, do not turn yellow or aging under direct sunlight for 3-5 years.

Anti-Yellow for 3-5 years under direct sunlight





■ Building Facade

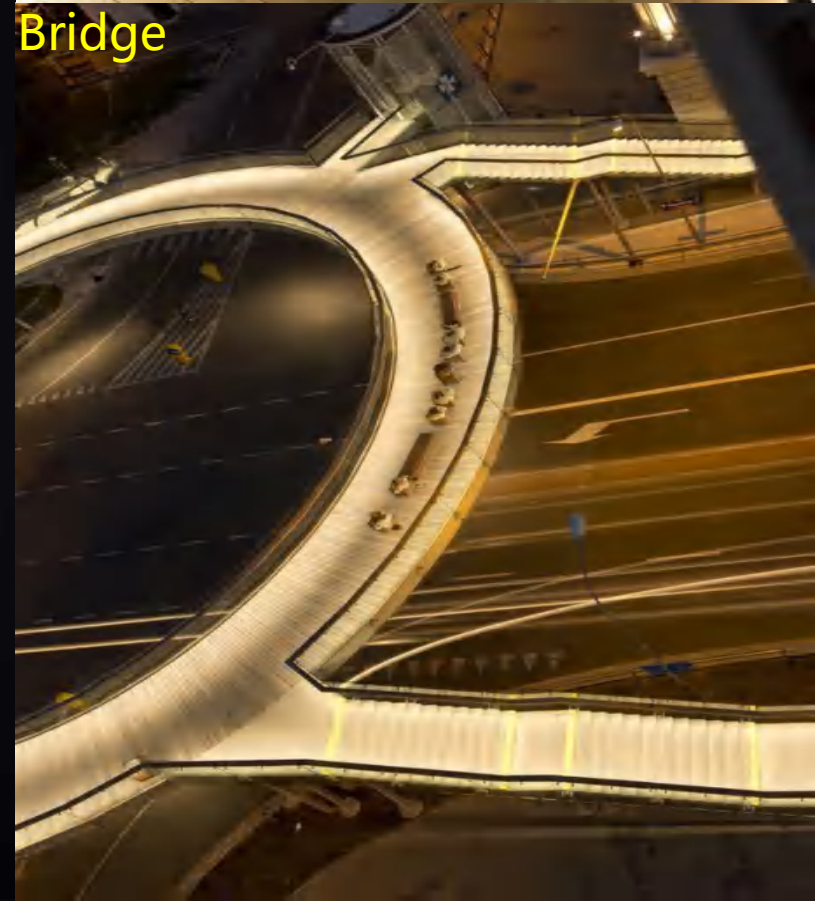
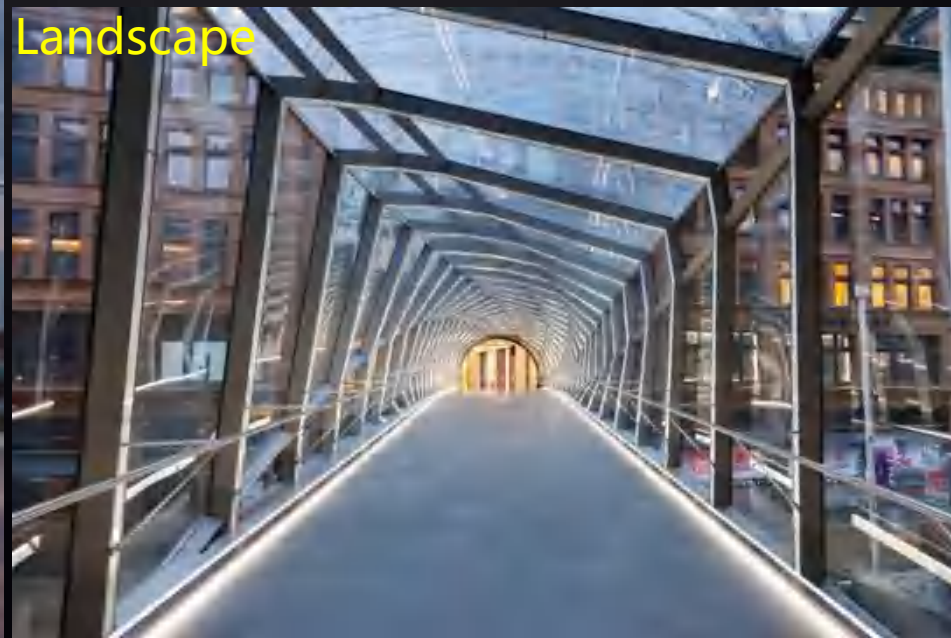




■ Landscape



■ Bridge





Corrosion Resistance

Silicone can resist common salt/alkali/acid corrosion, It can be used in seaside/yacht/chemical/petroleum/mine/laboratory and other special environment.



Anti corrosion of common salt/alkali/acid

■ Cruise Ship

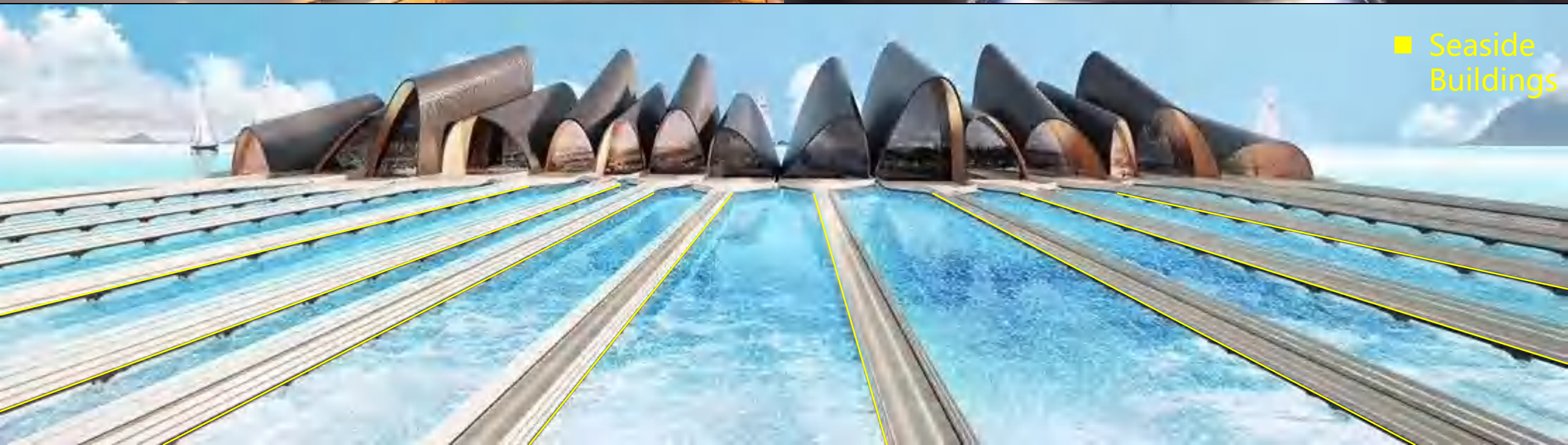




■ Seaside Facilities



■ Seaside Park



■ Seaside Buildings



■ Chemical Engineering



■ Mine





Flame Retardant & Environmental Protection

Silicone material is with environmental protection and non-toxic, silicone is with high ignition point, it's non-flammable, and has no irritating toxic gas (unlike PVC material), it's more safe.



PVC Material

Flame retardant rating: UL94-V2



Silicone Material

Flame retardant rating: UL94-V0



High Substitutability

White color, Multicolor, and running effect can replace neon tube/guardrail tube/rainbow tube.

Can be used for sign/building/landscape lighting;

Replace Neon tube/guardrail tube/rainbow tube.



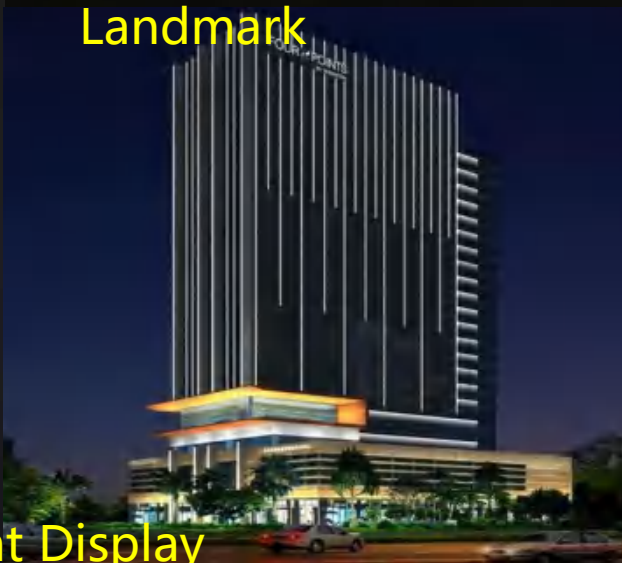
■ Outline



■ Urban
Landmark



■ Night Display



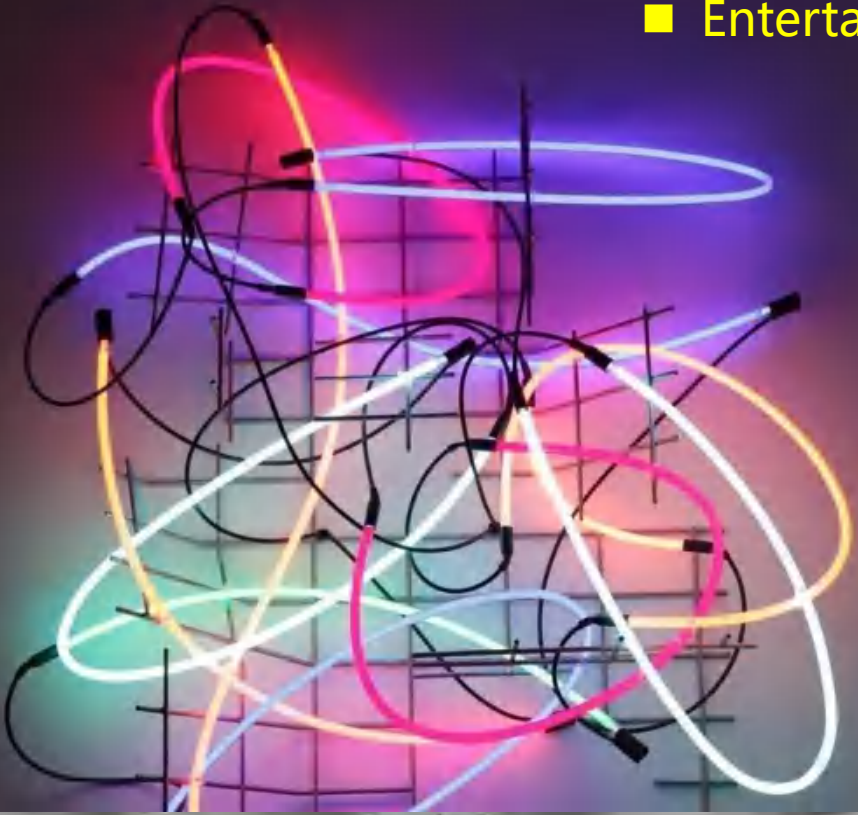
china.makepolo.com



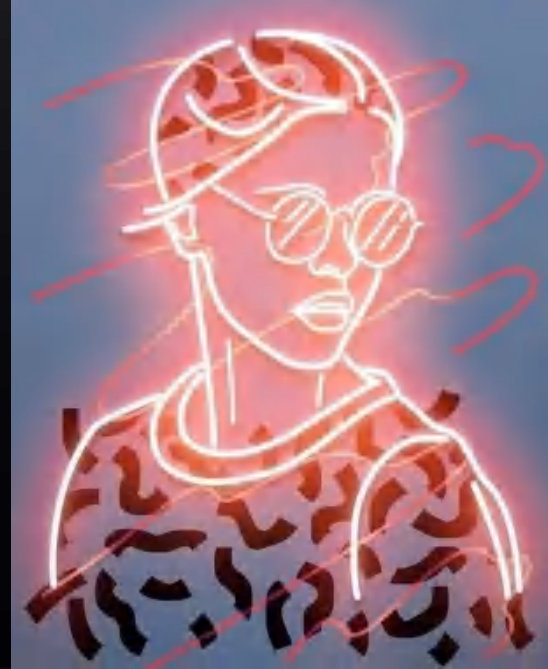
■ Landscape Bridge



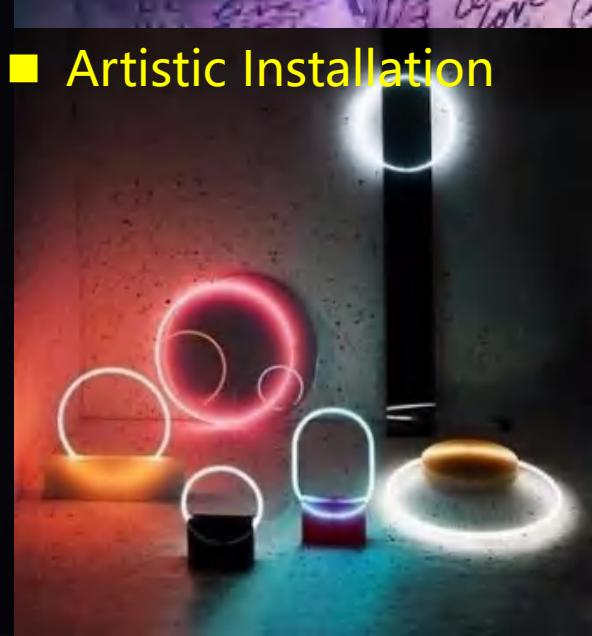
■ Entertainment Festival



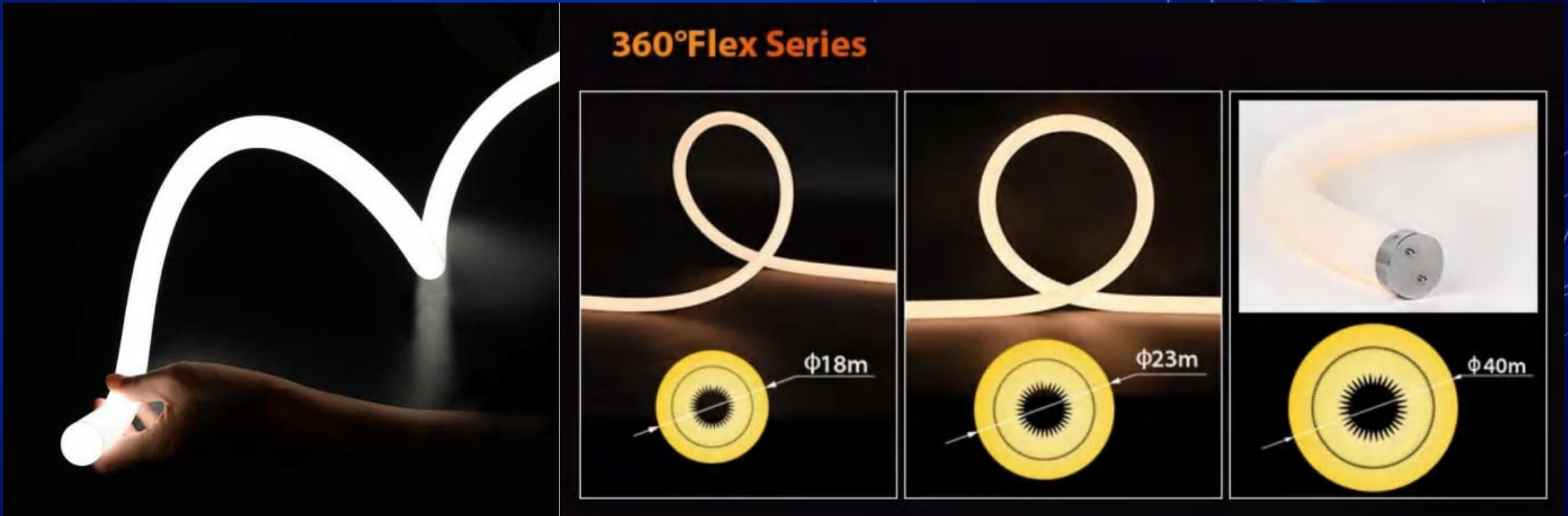
■ Graphic Identification



■ Artistic Installation



TQ lighting 360 Degree silicone neon strip light



360 Degree Illuminating

Either easy shaping in Circle, stright line or cylinder,etc. for designing...

Kinds of diameter size: 18mm/23mm/25mm/40mm

Application of 360Degree Silicone Neon Strip

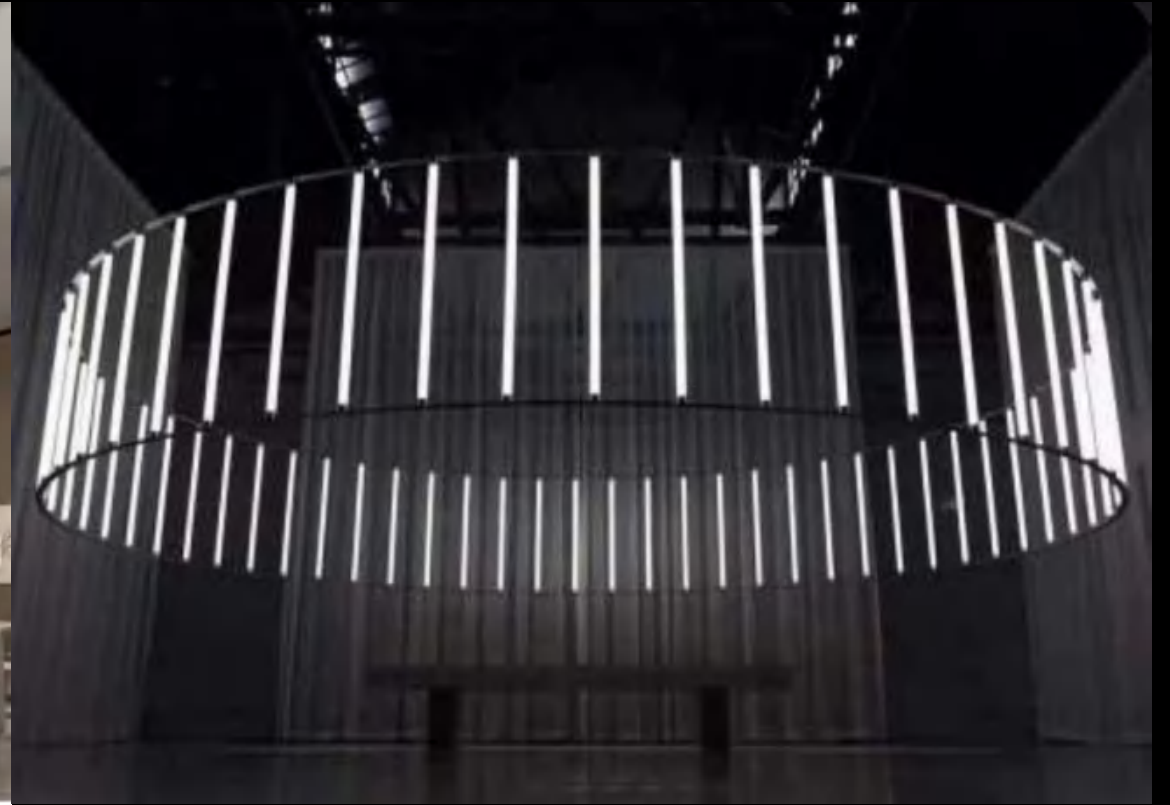


360 Degree silicone neon strip light Application



360 Degree Illuminating, Easy shaping in Circle

360 Degree silicone neon strip light Application



360 Degree Illuminating, Easy shaping in straight line

360 Degree silicone neon strip light Application



360 Degree Illuminating, Easy Curved shaping

03. Product Reliability

Structural Reliability

Easy-to-Bend, Easy-To-Modelling, Waterproof&Dustproof&Fireproof

Weather Resistance of Material

UV Resistance, Salt/Alkali/Acid Corrosion Resistance, High Temperature Resistance, Extreme Cold Resistance, Flame Resistance, Environmental Non-toxic Material

Certification/Testing/Report/Video

Certifications

CE

VERIFICATION OF CONFORMITY

Reference No. : WTS17D10019185
Holder : [REDACTED]
Address : [REDACTED]
Product : [REDACTED]
Model(s) : [REDACTED]
Ratings : [REDACTED]

WALTEK

Test Standards:
EN 60598-1: 2015
EN 60598-2-20: 2015
EN 62493: 2015

The above product has been tested by us with the listed standards and found in compliance with the Low Voltage Directive 2014/05/EU. It is possible to use CE marking to demonstrate the compliance with the Low Voltage Directive.

Luminaires-Part 1: General Requirements And Tests.
Luminaires -Part 2: Particular requirements—Lighting chains
Assessment Of Lighting Equipment Related To Human Exposure To Electromagnetic Fields

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements in the above mentioned EU Directive. Other relevant Directives have to be observed.

After preparation of the necessary technical documentation as well as the conformity declaration the CE marking as shown below can be affixed on the equipment.

CE



The statement is based on a single evaluation of the sample of above mentioned product(s). It does not imply an assessment of the whole production.

Waltek Services Co., Ltd.
Tel: +86-755-8355 1033 Fax: +86-755-8355 2400
Http://www.waltek.com.cn E-mail: CB@waltek.com.cn

ROHS

VERIFICATION OF CONFORMITY

Reference No. : WTS17F100227C
Applicant : [REDACTED]
Address : [REDACTED]
Manufacturer : [REDACTED]
Address : [REDACTED]
Product : [REDACTED]
Model No. : [REDACTED]

WALTEK

Tested Standards:
IEC 62321-2:2013, IEC 62321-3-1:2013, IEC 62321-3:2013, IEC 62321-4:2013, IEC 62321-2006, IEC 62321-7-1:2016, IEC 62321-6:2016

This above product has been tested by us with the listed standards and found in compliance with the European RoHS Directive 2011/65/EU.

Electrotechnical products - Determination of levels of six regulated substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers)

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements in the above mentioned EU Directive. Other relevant Directives have to be observed.

After preparation of the necessary technical documentation according the requirement of EN60511 as well as the verification of conformity, the CE marking as shown below can be affixed on the equipment.

CE

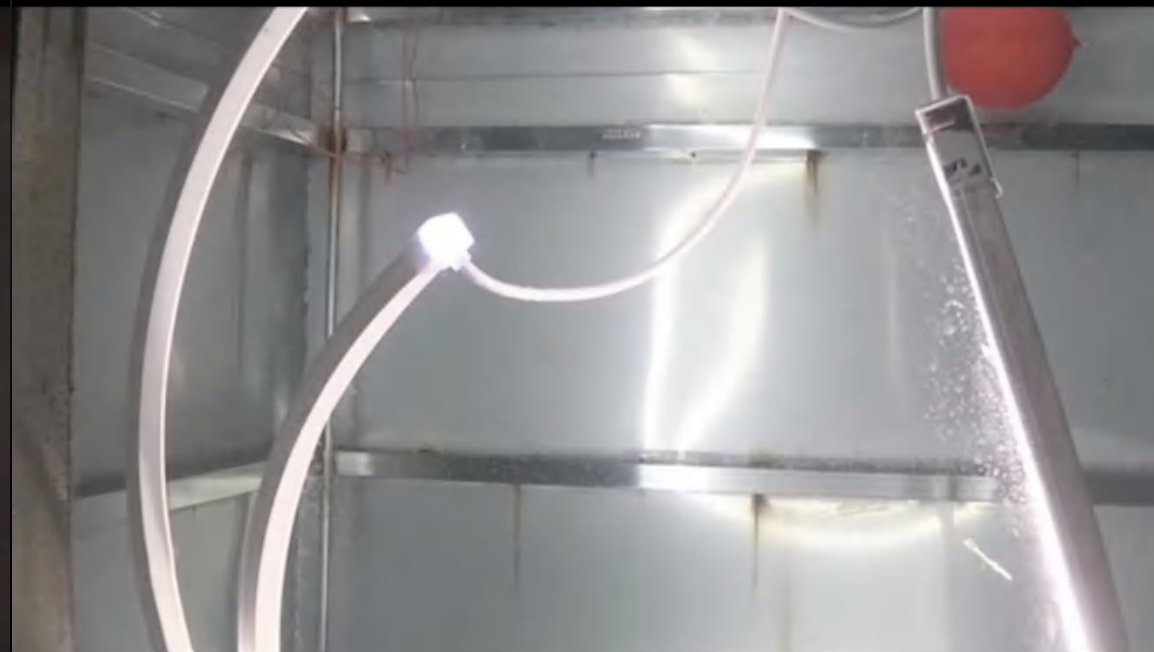
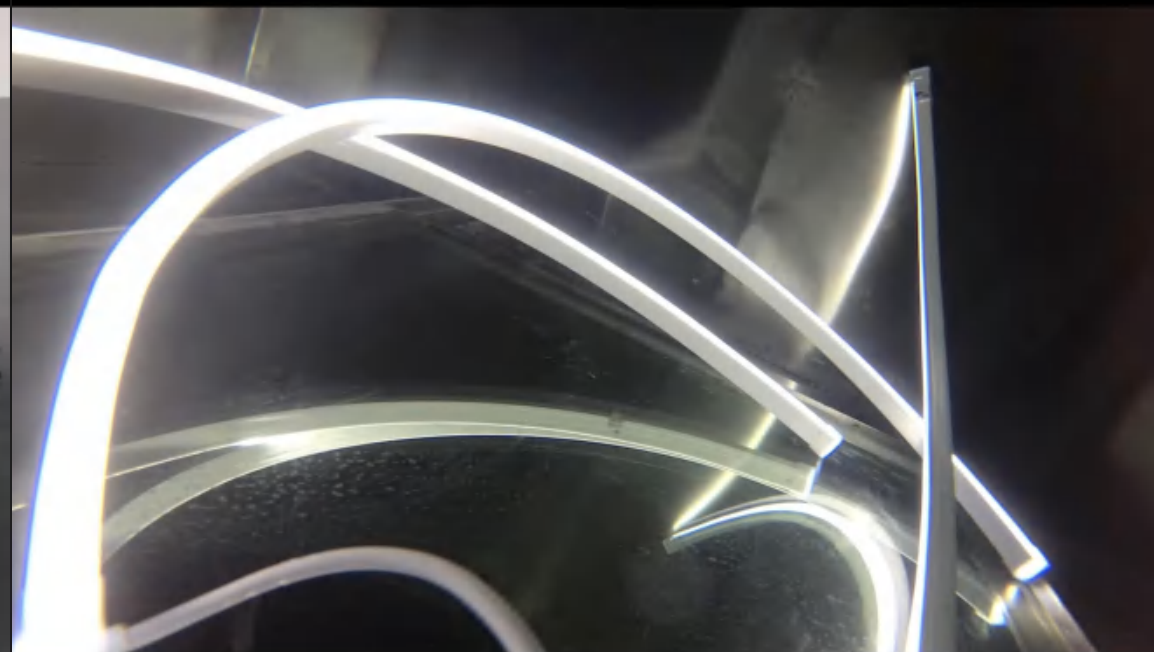


The Verification of Conformity confirms the compliance with the listed requirements on a voluntary basis. It refers only to the sample submitted and does not imply an assessment of the whole production.

Waltek Services (Foshan) Co., Ltd.
Hotline: 400-840-2288 E-mail: info@waltek.com.cn
Http://www.waltek.com.cn

Testing





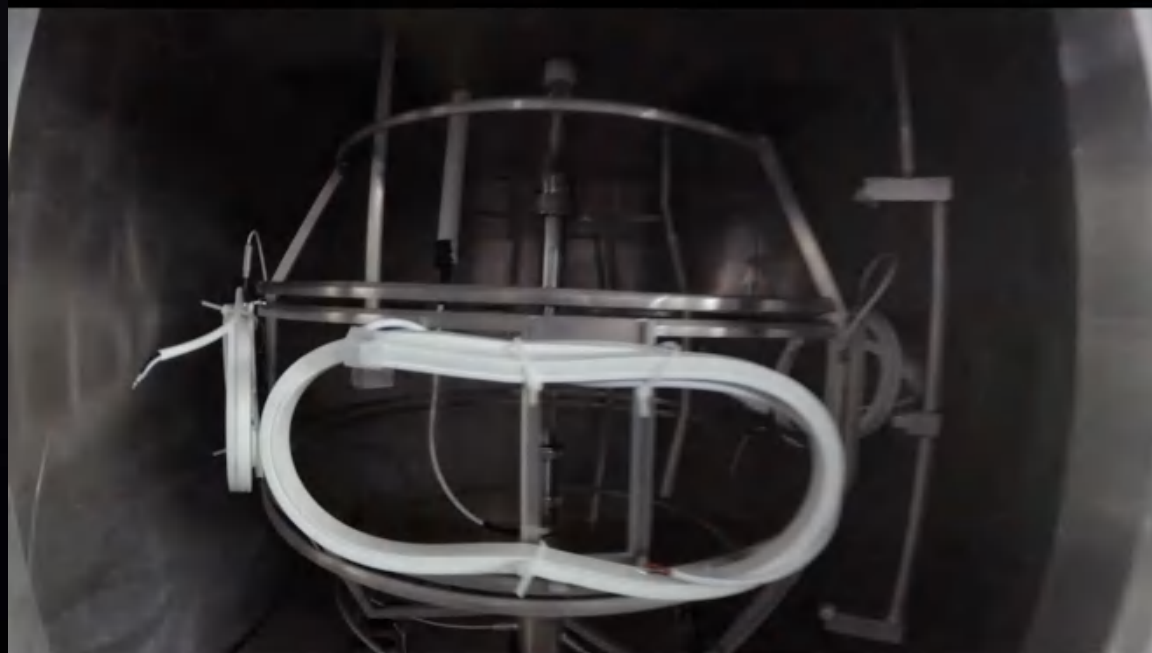
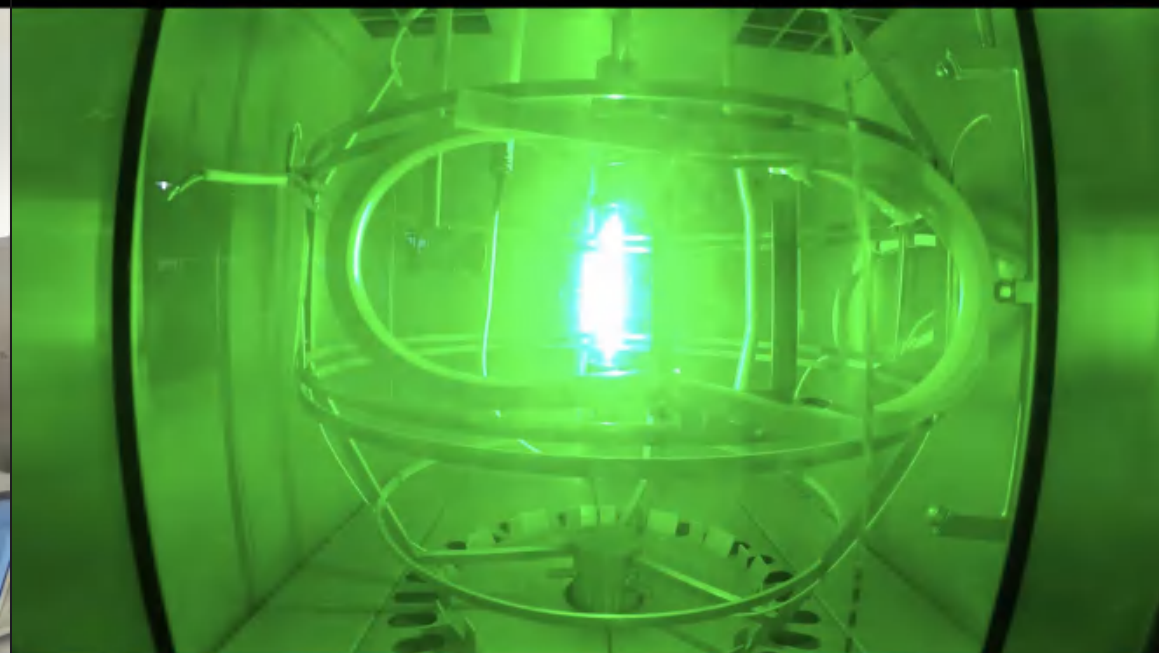
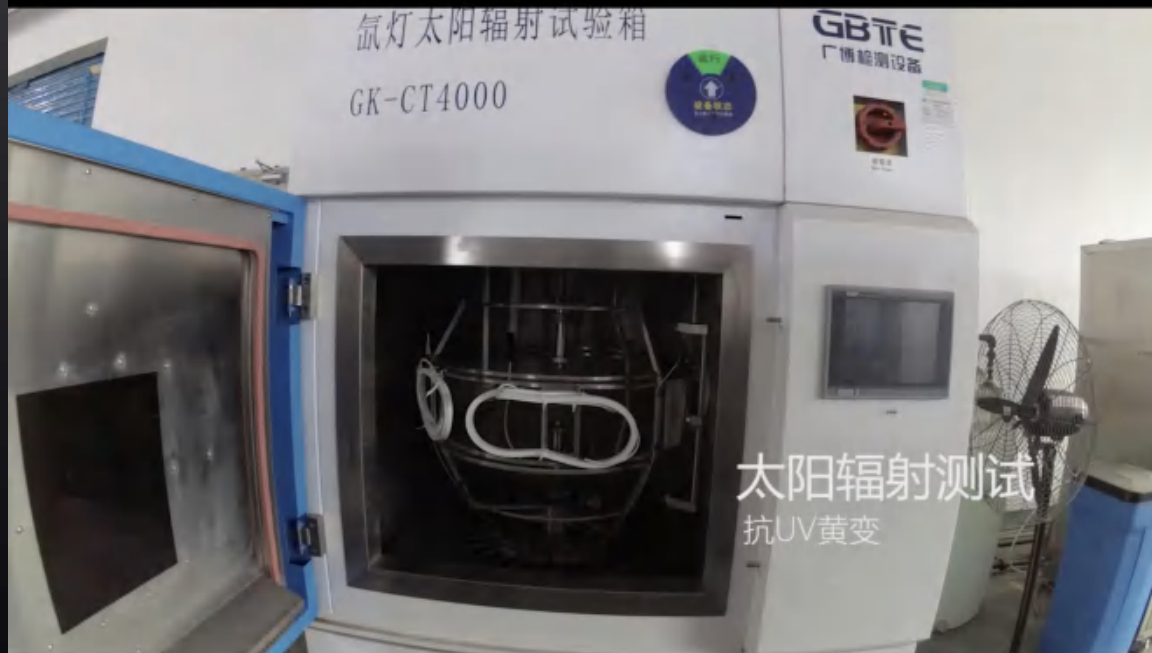


防火针焰测试



PVC材质 测试

硅胶材质 测试



Report

IP67 Report



Anti UV Aging Report



Gas & Corrosion Test Report



Salt corrosion Test Report

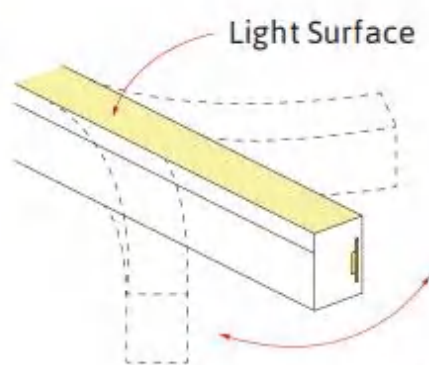
04.

Installation Guidance

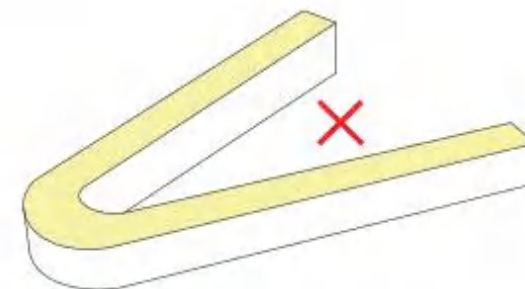
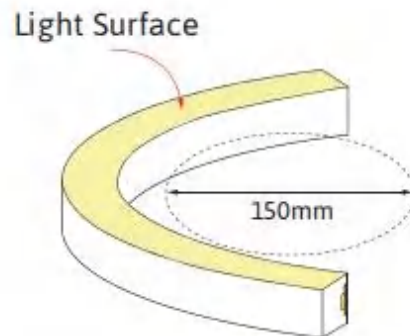
Operation Guidance

The LED neon Flex can be only bend along the light surface, like the following drawing;

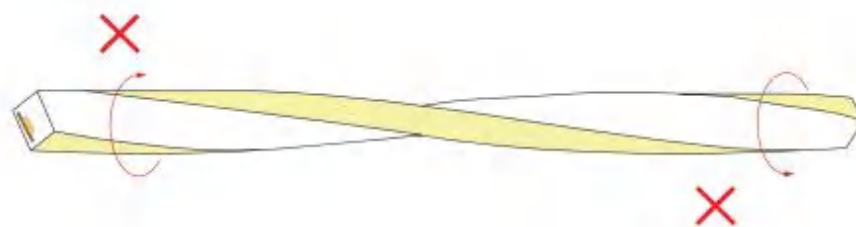
Do not twist the light, and do not bend smaller than the allowed minimum 150mm bending diameter;



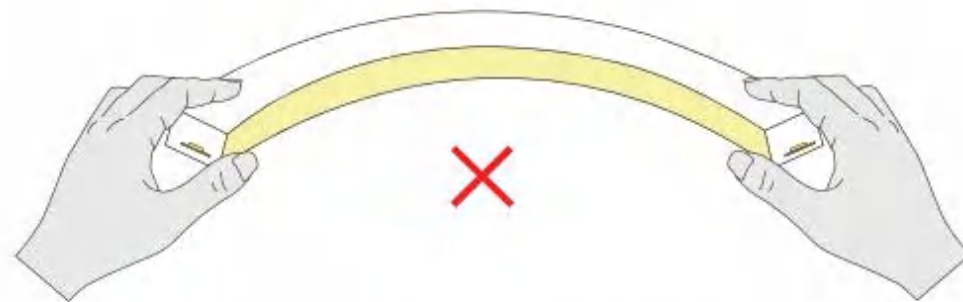
Bend standard only



✗ Bend too tight



✗ Do not twist this LED Neon Flex! Other wise LED & Resist or & int ernal cir cuit will be broken.

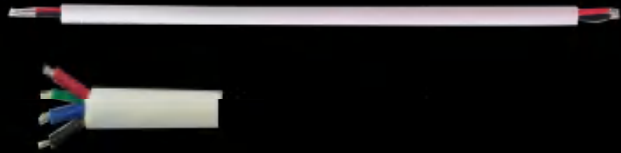


✗ Do not bending the LED Neon Flex Vertically Other wise LED & Resist or will be broken.

How to properly install?

---Same way with strip light.

Accessories For Vertical Bending and Horizontal Bending Neon Light



← Wire



← Aluminum Channel/Aluminum Clip



← End Cap

installation with clips

1, decide the clip location



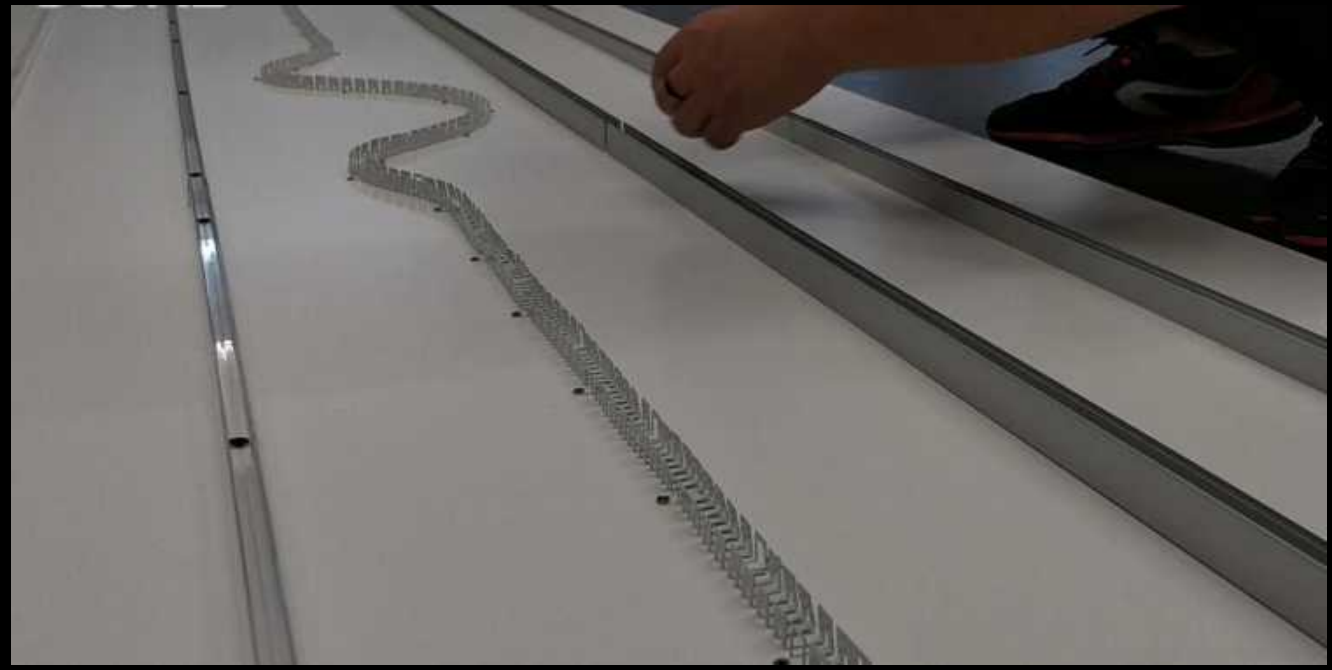
2, fix clip on the wall



3, put the strip into the clips



4, connect the power



Neon Light Installed With Aluminum Channel & Aluminum Clip.

360 Degree silicone neon strip light Accessories



PC transparent mounting clip
L20*W35*H29mm



Fittings for lifting



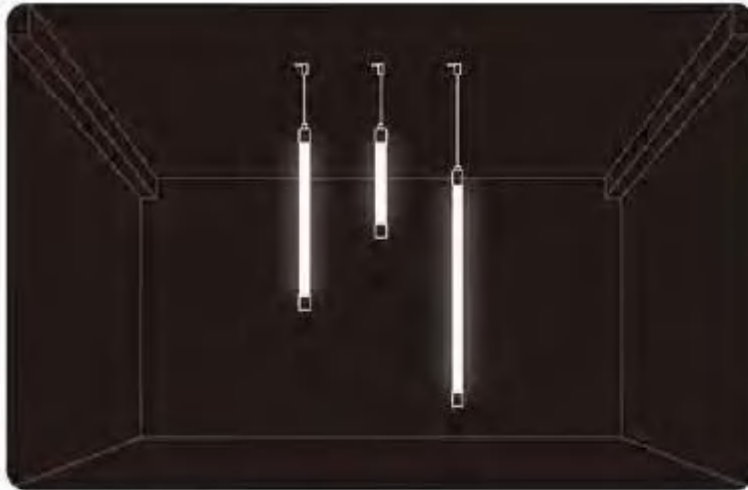
End cap for lifting



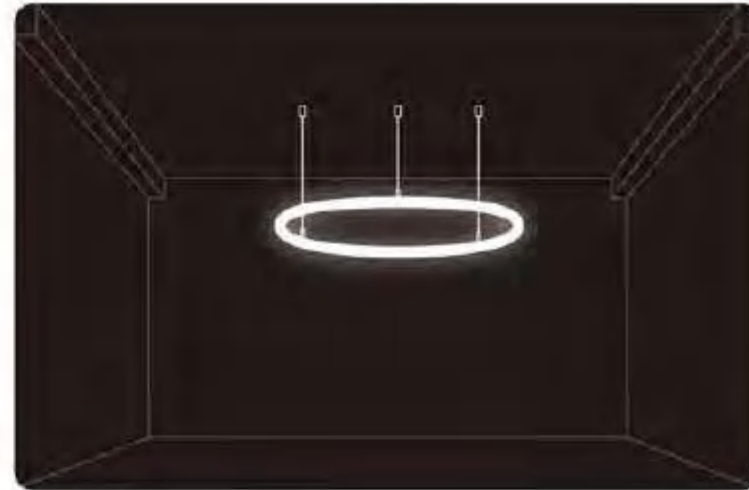
Closed end cap for lifting

360 Degree neon strip light
Accessories

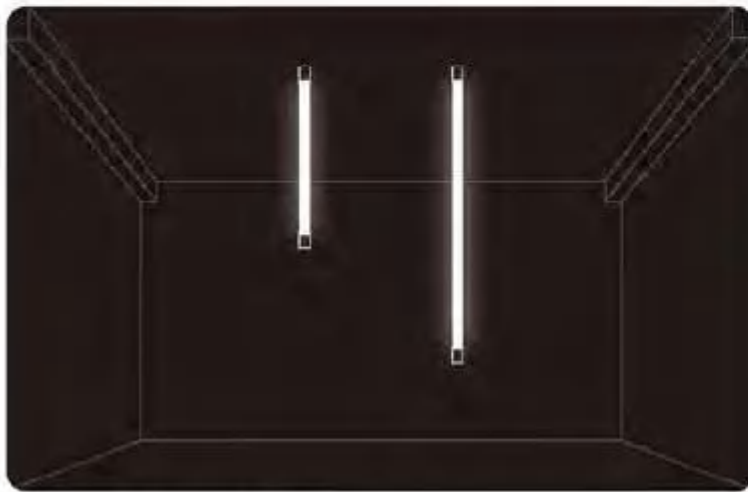
360 Degree silicone neon strip light Installation



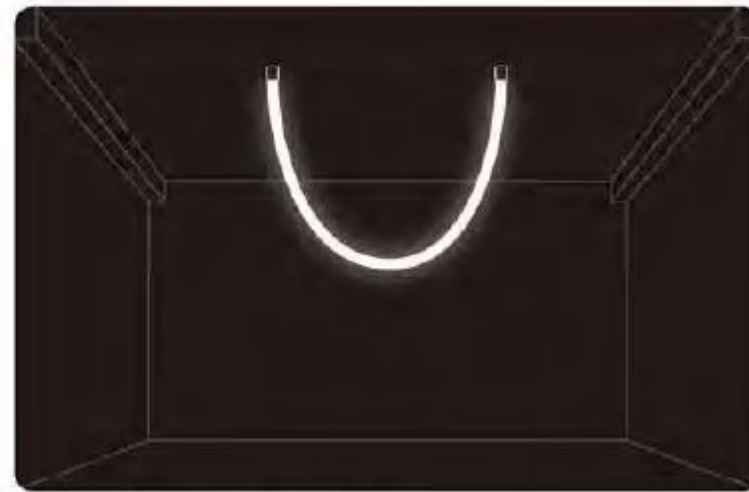
Vertical Lifting



Splicing

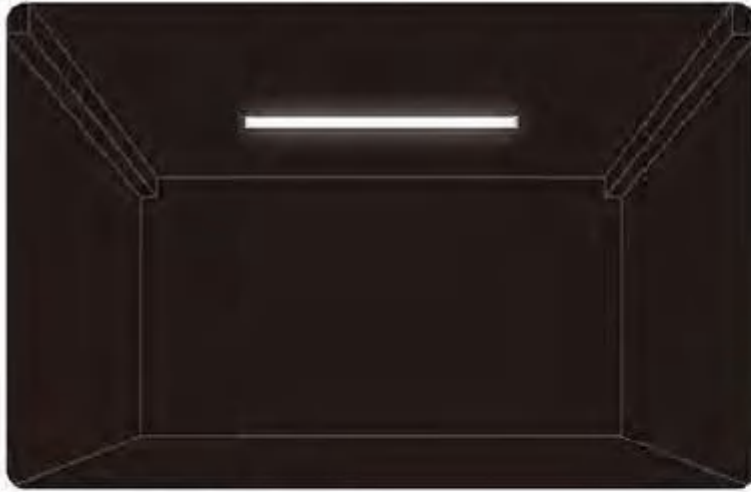


Vertical ceiling-single

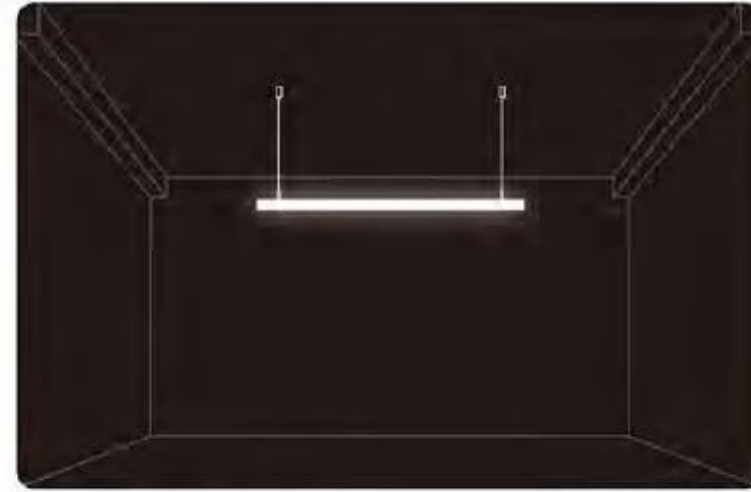


Vertical ceiling-double

360 Degree silicone neon strip light Installation



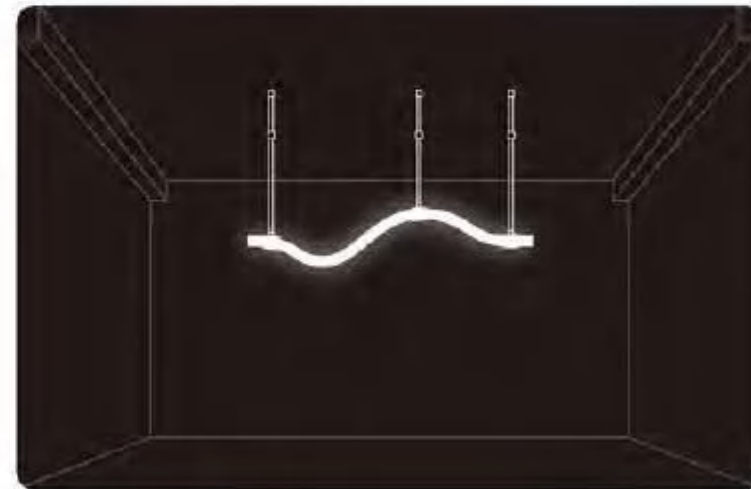
Horizontal ceiling



Horizontal lifting



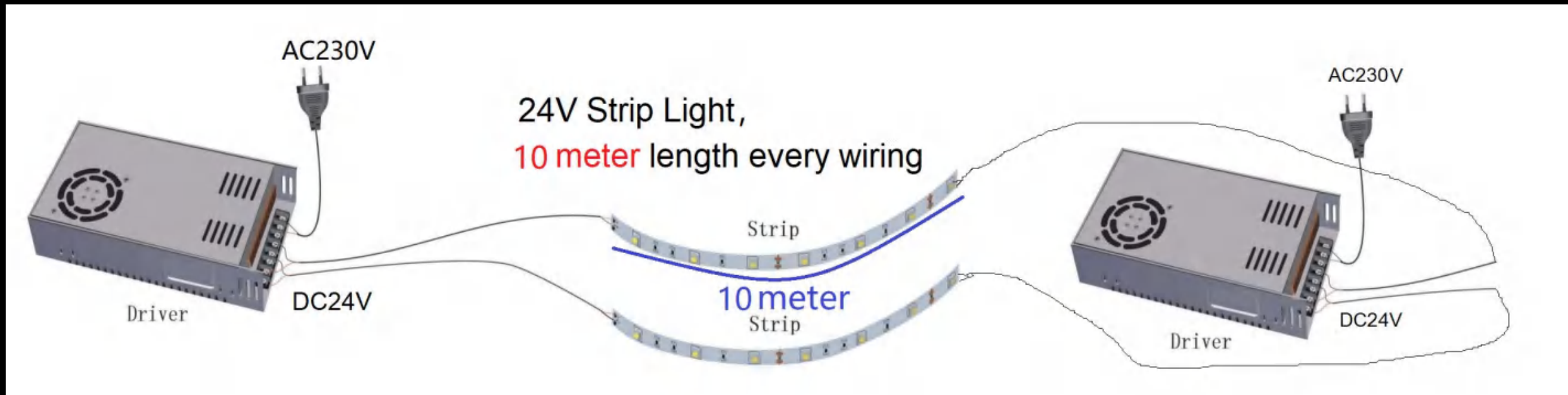
Concealed styling



Boom shape

Using a dimmer, Indoor, and outdoor application.

---Same with strip light.



05. Package & Sales Mode

Size	Package	Default/Customize
5m/Roll 10m/Roll 15m/Roll	 A photograph of a brown cardboard box for 'Silicone Neon Strip'. The text 'Silicone Neon Strip' is printed in black on the front of the box. There are some small square marks at the bottom right of the box.	
5m/Roll	 A photograph of a clear plastic bag for 'LED STRIP'. The bag has some text and a diagram of a strip on it. The text 'LED STRIP' is visible.	
50m/Roll	 A photograph of a large roll of white LED strip light. The roll is shown from a perspective that highlights its thickness and the grid-like pattern on the surface of the strip.	

