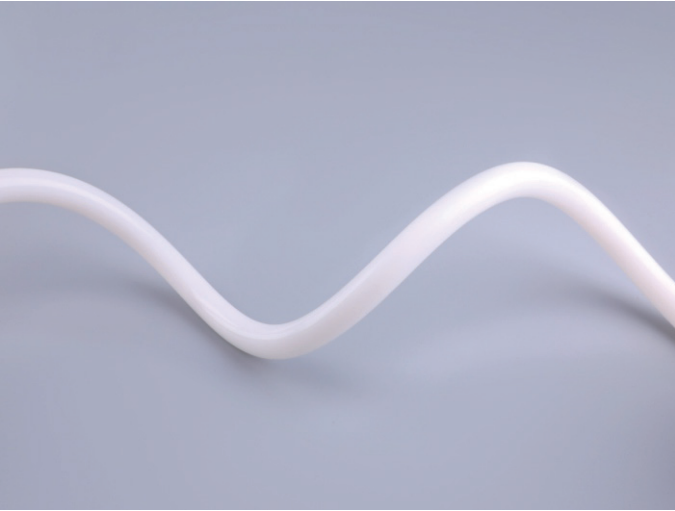


ALTRALUCE

HALO SERIES

360° Omni-Directional Luminous
Tube Free Cutting 60820-21-22

Flex Light

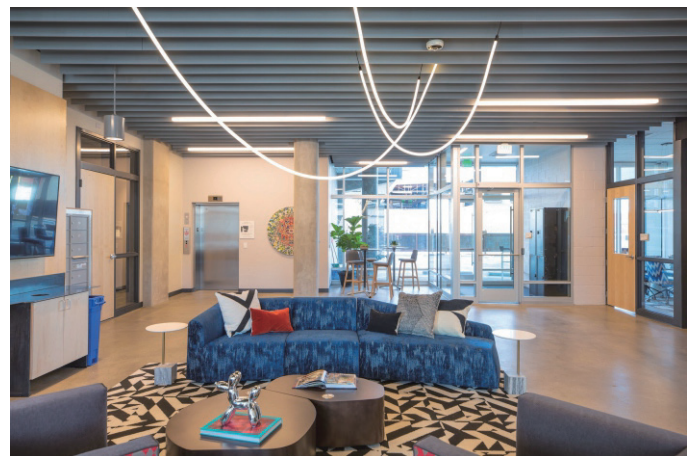


Features

1. Circular tube design with 360 degree light emitting performance, available to build many patterns and arts for decoration.
2. Uniform, dot-free, smooth and comfortable luminary up to 5 meters [16.4ft.] run length.
3. White color with diameter in 18mm [0.71 in.].
4. On field cuttable and assembly, free cutting to be any desired length, with end cap sealed by gluing process or die-casting process.
5. IP67 for indoor and outdoor usage.
6. Dimmable available with PWM signal.
7. Compared with traditional fragile glass and harden/yellowing easily PVC sheathing material, silicon extrusion technology is an advanced process, with high-efficiency production capacity and environmentally-friendly characteristics. Additionally, with high grade appearance, soft bend flexibility, strong impact resistant and high weather resistance.
8. 50,000h long lifespan, 5 years warranty.
9. CE, UL and RoHS approval.

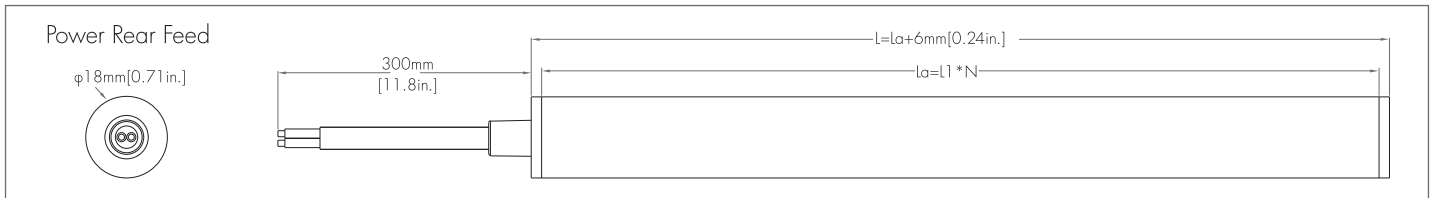
Application

- Decoration and ambient lighting used in hotel, restaurant, store, supermarket, bar, cafe, gym, showroom, studio, kitchen, museum etc.



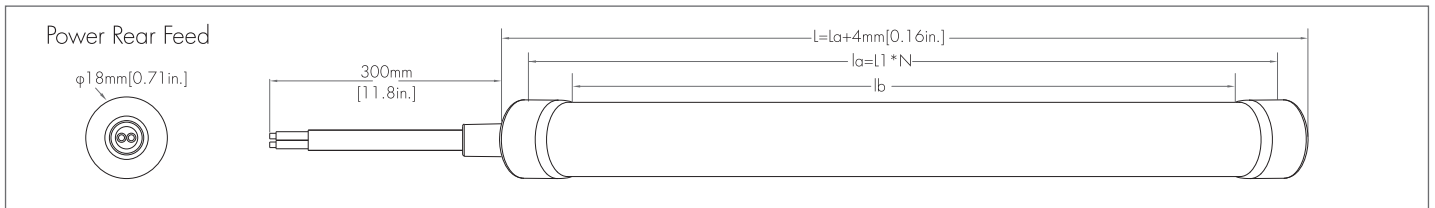
Dimension (End cap sealed by die-casting process)

L: Total length
 Lb: Illumination surface length
 N: Number such as 1,2,3N
 La: Length of LED strip light
 L1: Minimum cutting unit

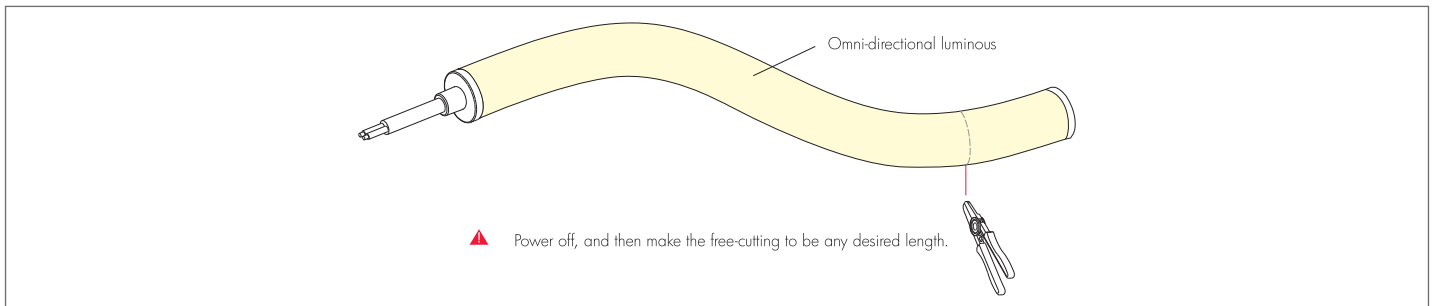


Dimension (End cap sealed by gluing process)


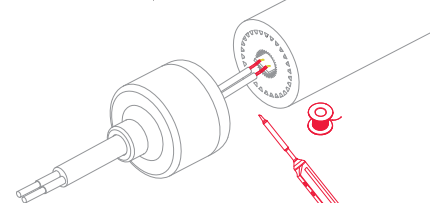
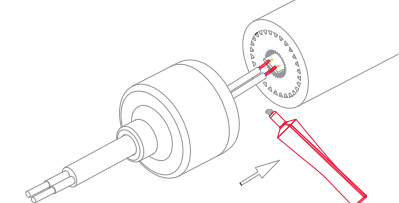
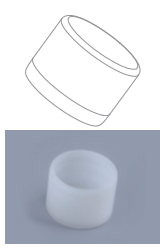
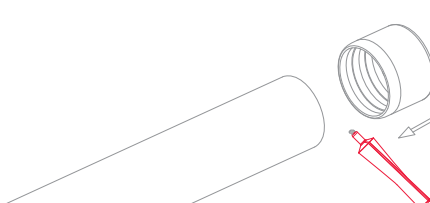
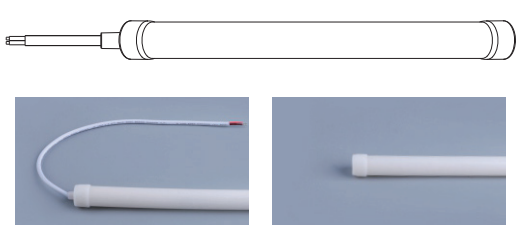
L: Total length
 Lb: Illumination surface length
 N: Number such as 1,2,3N
 La: Length of LED strip light
 L1: Minimum cutting unit



Cutting



Assembly

 <p>Front Cap 1X</p>	<p>① After cutting, put the front cap into the cable, and then solder the cable to LED strip inside the tube.</p> 	<p>② Seal the front cap to the tube by gluing process.</p> 
 <p>End Cap 1X</p>	<p>③ Seal the end cap to the tube by gluing process.</p> 	<p>④ Final product.</p> 

General Parameters

Part No.	Style	Dimension	Max. Run Length (La)	Increment (L1)	LED Type	LED QTY	IP&IK Rating	Operating Ambient	Lifespan	Warranty
60820 60821 60822	Dual-Bend	φ18mm	5M (factory made only)	free-cutting to be any length (factory made only)	SMD 2216	480LED/M	IP67 & IK08	Ta(working): -20~45°C [-4~113°F]	50,000h (L70@Tc) ≤65°C [149°F] Tc is temp. of LED pin.)	5 years

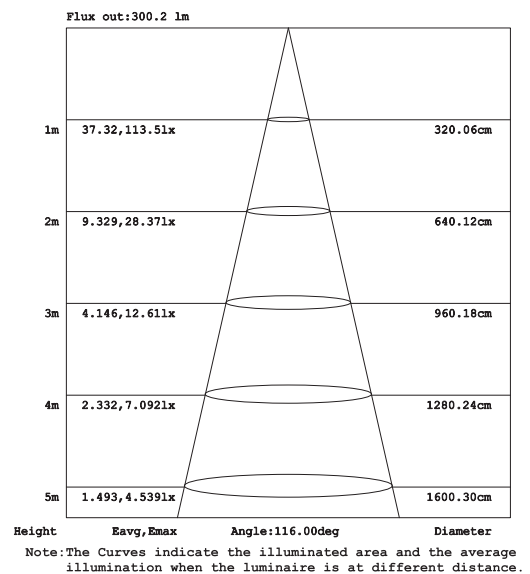
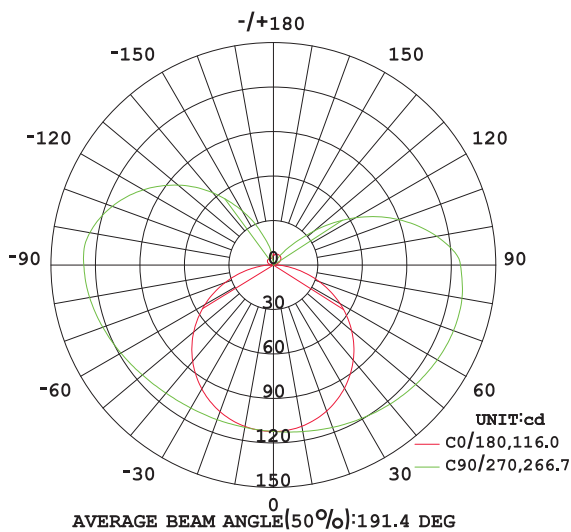
Photoelectric Parameters

Part No.	Style	Power ±10%	Operating Voltage	Finished Product CCT/ Wavelength	CRI80, 4000K		CRI90, 4000K		Beam Angle
					Luminous Flux±10%	Luminous Flux±10%	Light Efficiency		
60820 60821 60822	Dual-Bend	12W/M	DC24V	2700K±120K 3000K±150K 4000K±300K Other CCT on demand	/	860lm/M	72lm/W	360°	

Note:

- (1) Luminous flux for CCT 2700K is 10% lower, for CCT 3000K/3500K is 5% lower, for CCT 5000K/6000K is the same, compared with 4000K.
- (2) The Max. Length (La) is defined as power fed on one side.
- (3) The power of the strip need to be reduced to 8W/M[2.44W/ft.]@White for operating ambient temperature in -20~55°C[-4~131°F].
- (4) Installation accessories pack should be ordered separately according to specific case.

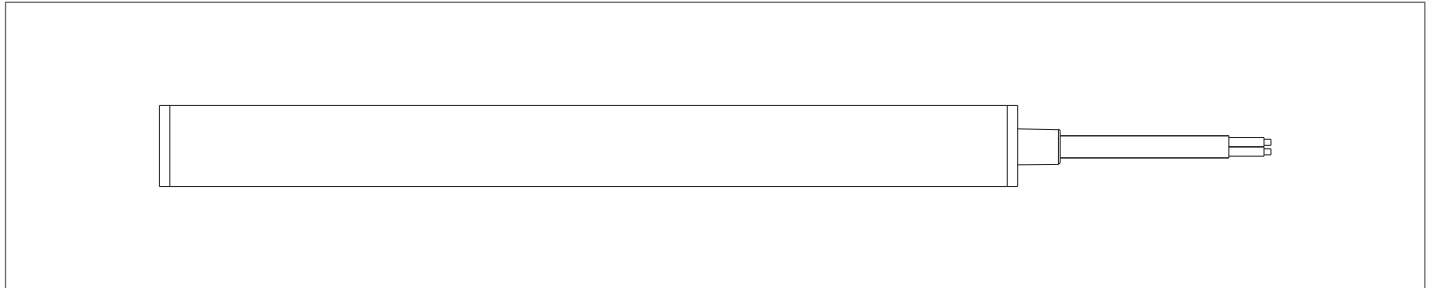
Light Distribution Diagram



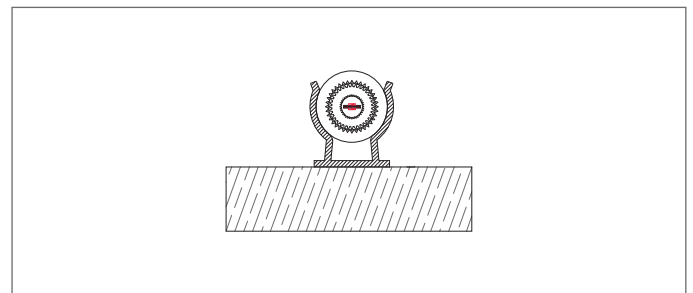
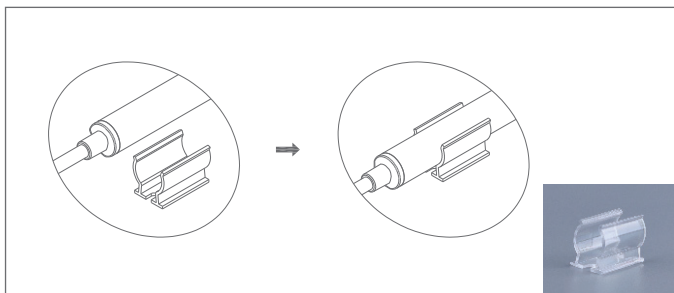
Circular Tube (12W, CRI80, 3000K)

General Characteristics

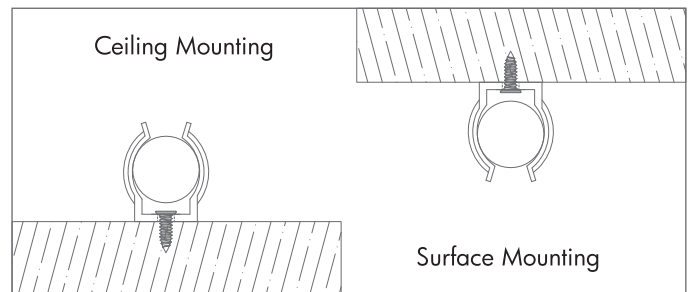
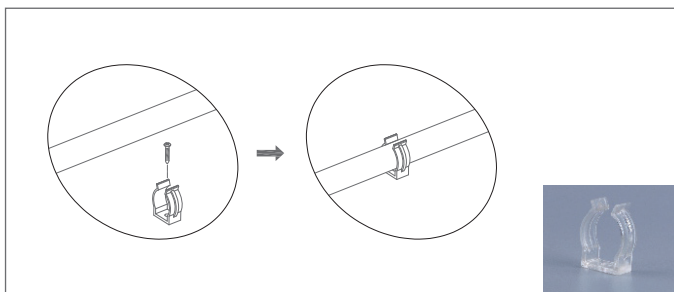
(1) Power cable in rear feed.



(2) Surface mounting by bracket.



(3) Surface mounting or ceiling mounting by clip.

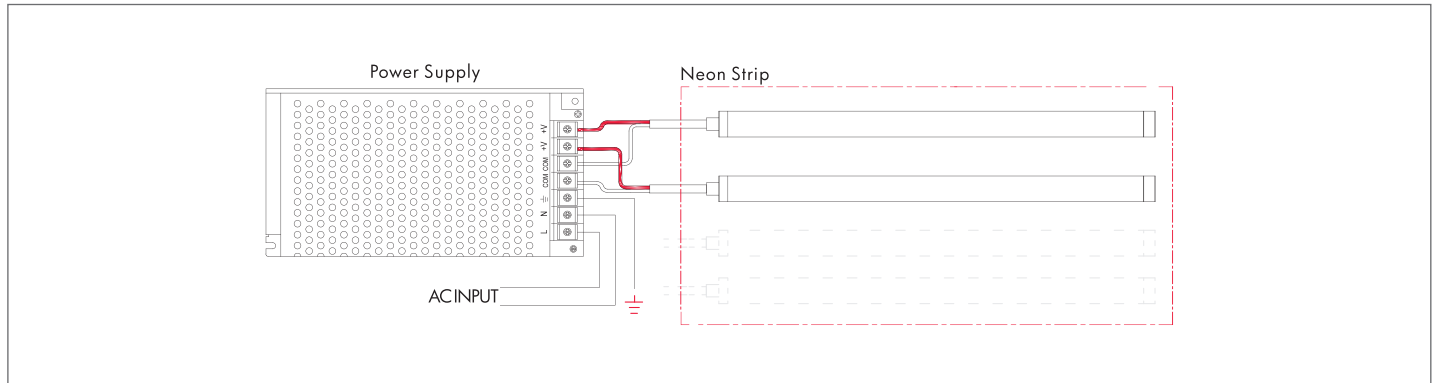


(4) Ceiling mounting by suspension kit.

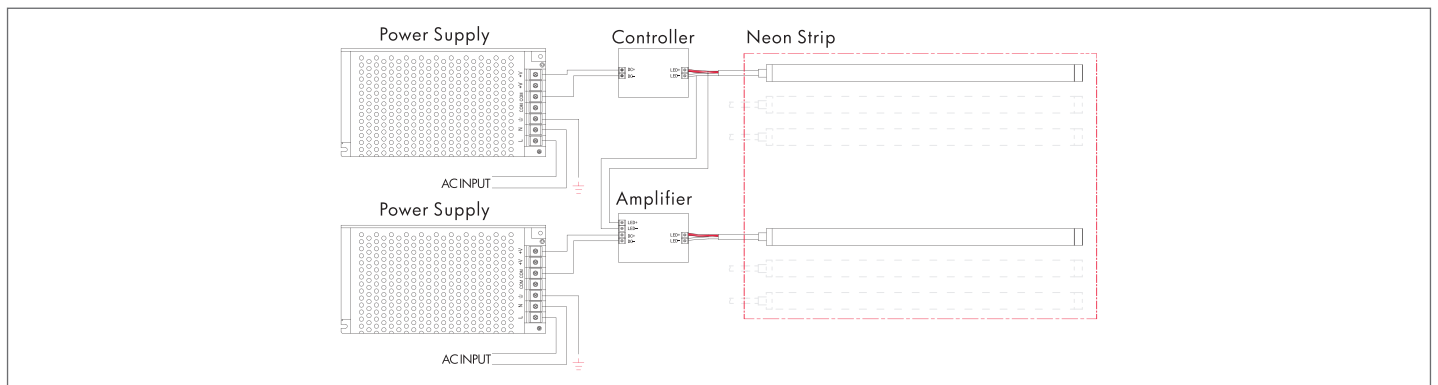
<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>	
<p>Drill a hole and fix the sleeve to the ceiling by screw.</p>	<p>Screw in the suspension rope to the sleeve, and then adjust the rope's length.</p>	<p>Mount the clip to the suspension rope.</p>	<p>Press the neon strip into the clip.</p>	<p>The length of suspension rope is field adjustable when pressing the sleeve as shown.</p>

Connection

Non-Dimming Status for Single Color

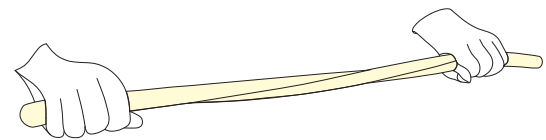
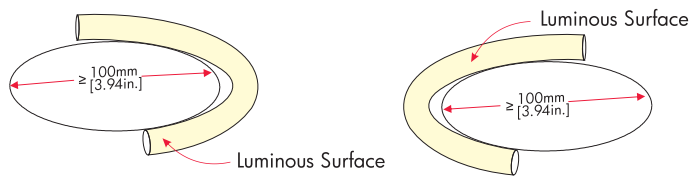


Dimming Status for Single Color



Notice

1. Adopt suitable power supply with power is 20% higher than the max. power of product, to ensure long time performance of power supply.
2. Do not install it when power is on. Before powering on, make sure the wiring is correct.
3. Avoid privately changing or damaging the circuit or other component on the product.
4. Avoid scrape, twist and irregular bend during installation, which might cause non repairable status for the product.
5. Minimum bending diameter definition is 100mm[3.94in.], too small bending diameter will break the product.
6. Minimum twist angle is 360° per 1000mm[39.4in.] length.
7. product linked in over long length will lead to problem of overload or uneven brightness.
8. To protect your eyes, do not stare at the product for a long time while it's illuminated.
9. Only professional personnel can install, dismantle and repair the product.
10. Bend and twist diagram is shown as below.



▲ Max. Twist Angle is 360° per 1000mm[39.4in.]