

ALTRALUCE

AQUA SERIES

IP68 Underwater UL
 Top Bend 60810-11-12
 Side Bend 60814-15-16

Flex Light

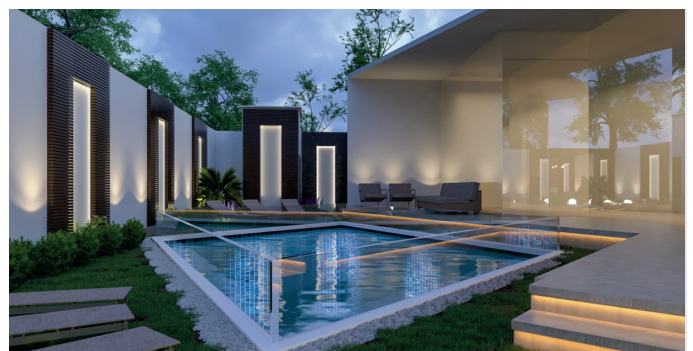
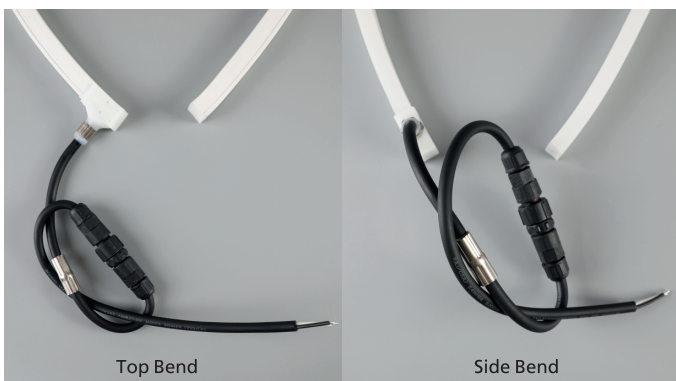
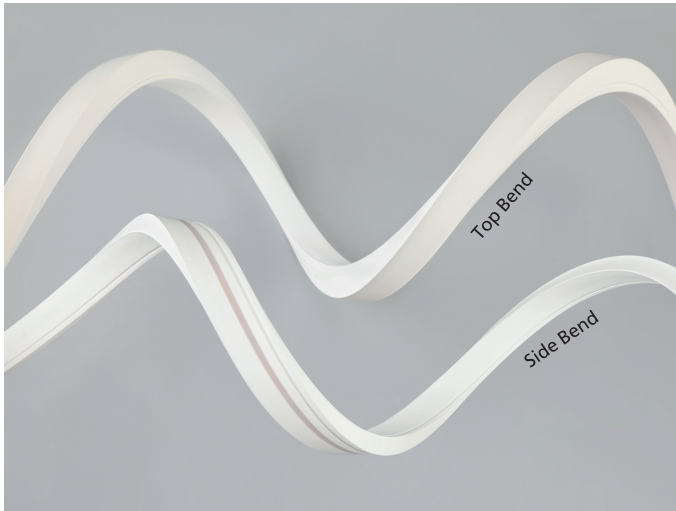


Features

1. IP68 waterproofing up to 3M[9.84ft.] underwater immersible application.
2. Adopting multiple waterproof designs, such as ultra-thin coating layer on PCBA, underwater dedicated wire with anti-wicking ferrule, thickened wire pressing copper ring, good sealing of hydraulic end cap, high forces-withstand structure, and IP68 connector.
3. Compact and sturdy structural design with IK08 impact resistance.
4. Exquisite appearance and soft touch thanks to the dust-proof matte finishing coating.
5. Consistent overall size and homogeneous lighting performance in 5M[16.4ft.] run length.
6. Excellent silicone material with high weather resistance (UV, yellowing, heat, and cold resistance), and excellent chemical stability (chlorine, ozone, acid, and alkali resistance).
7. Dimming available with PWM signal.
8. 50,000h LED lifespan, 3 years warranty, and UL approval.

Application

Ideal for decorative lighting in swimming pools, landscaped pools, vertical waterfalls, modern showers, and fountains.

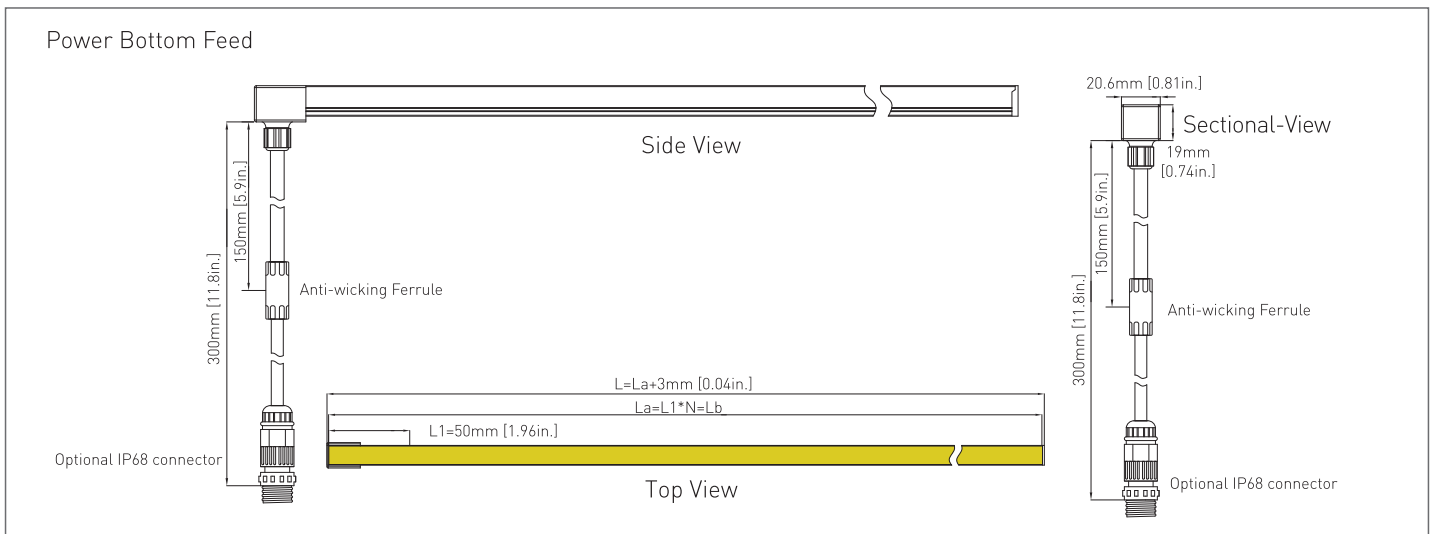
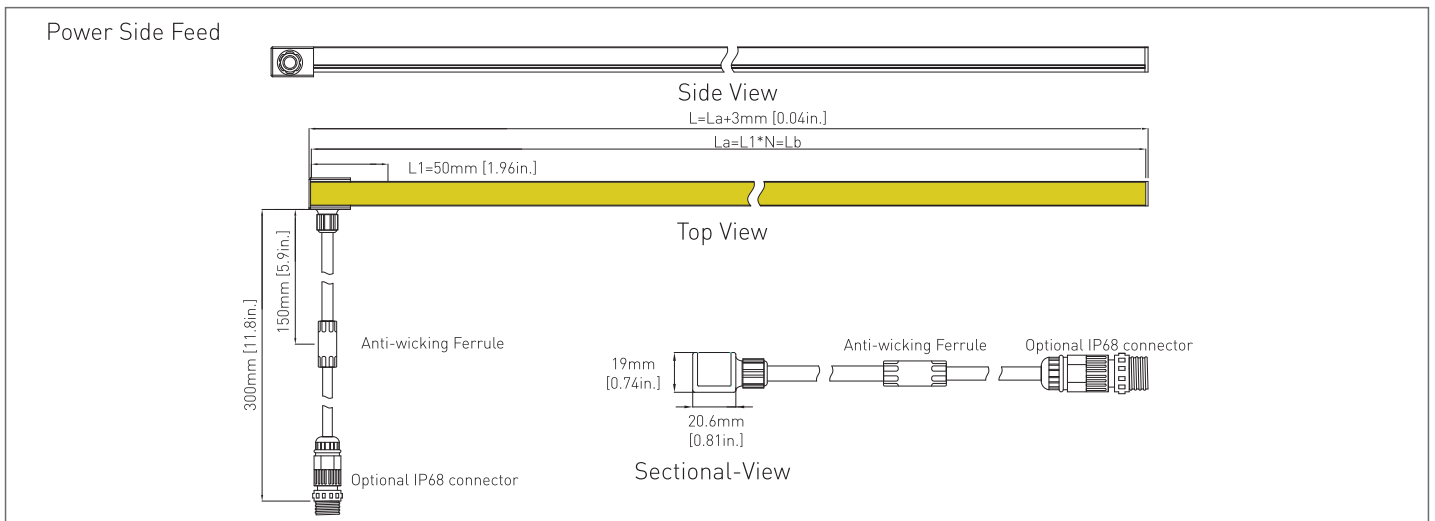
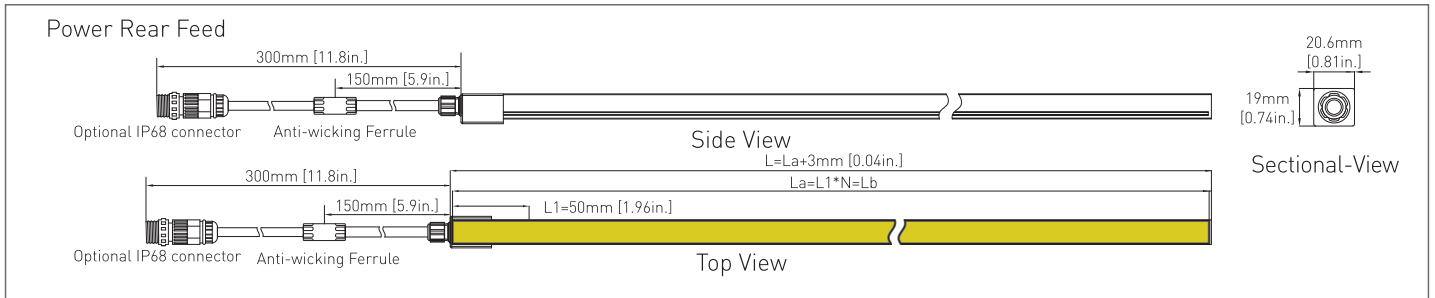


Diagram

Top Bend 60810-11-12 (Endcap sealed by die-casting process)

L: Total length
 Lb: Luminous surface length
 N: Number like 1, 2, 3.....

La: LED strip length
 L1: LED strip increment



Note:

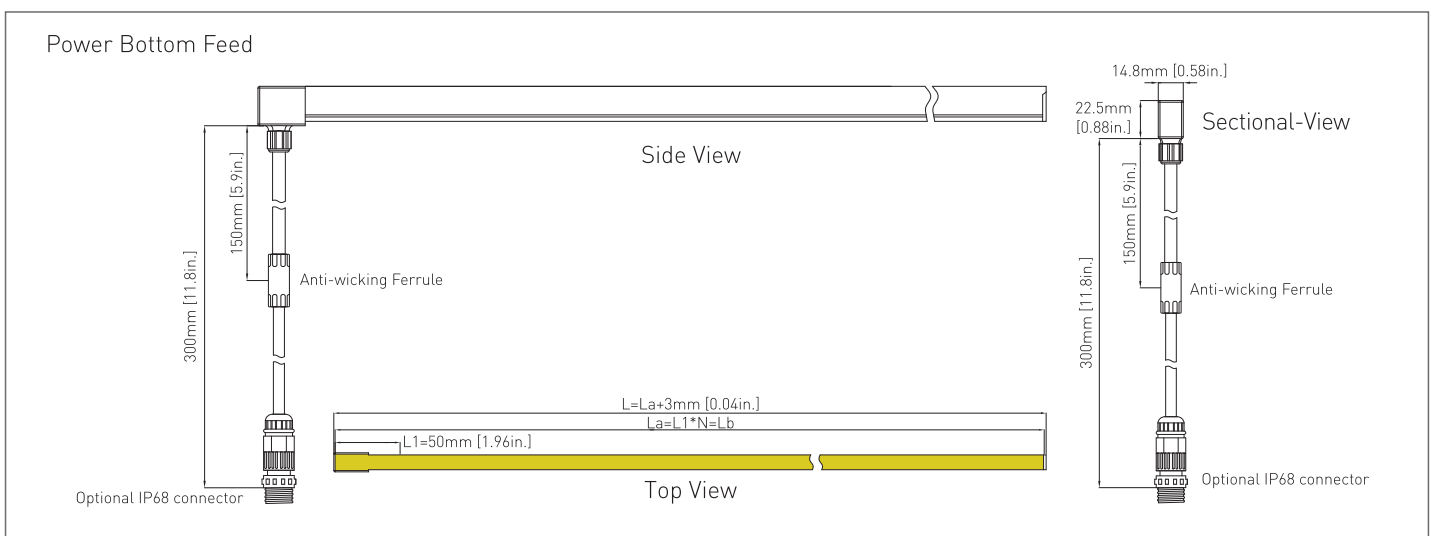
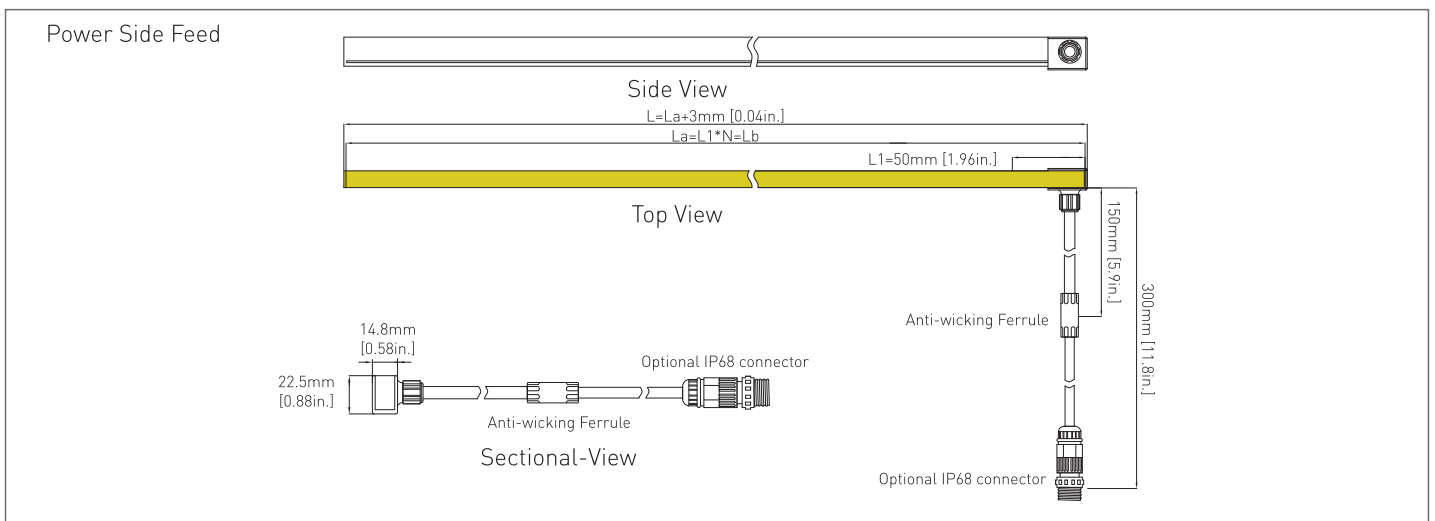
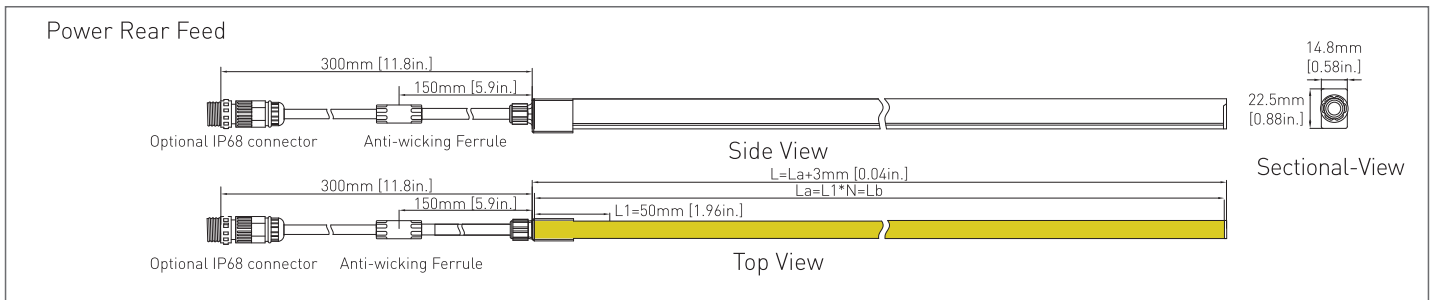
- (1) Do not take off the anti-wicking ferrule, otherwise, it will lead to the risk of water ingress and void the warranty.
- (2) Do not immerse the anti-wicking ferrule into the water for underwater application.
- (3) The anti-wicking ferrule is integrated to lower the risk of water ingress from the cable in case of inadequate waterproof treatment onsite. Waterproof performance can't solely rely on the anti-wicking ferrule, waterproof treatment at the cable joint is also required if possible.

Diagram

Side Bend 60814-15-16 (Endcap sealed by die-casting process)

L: Total length
 Lb: Luminous surface length
 N: Number like 1, 2, 3.....

La: LED strip length
 L1: LED strip increment



Note:

- (1) Do not take off the anti-wicking ferrule, otherwise, it will lead to the risk of water ingress and void the warranty.
- (2) Do not immerse the anti-wicking ferrule into the water for underwater application.
- (3) The anti-wicking ferrule is integrated to lower the risk of water ingress from the cable in case of inadequate waterproof treatment onsite. Waterproof performance can't solely rely on the anti-wicking ferrule, waterproof treatment at the cable joint is also required if possible.

General Parameters

Product No.	Style	Dimension	Max. Run Length (La)	Increment (L1)	LED Type	LED QTY	IP&IK Rating	Operating Ambient	Lifespan	Warranty
60810 60811 60812	Top Bend	W16xH16mm	5M (power fed on side)	Free cutting to any length	SMD 2835	120LED/M	IP68 & IK08	Ta: -20~45°C	50,000h (L70@ Tc≤65°C[149°F], Tc is the temp. of LED pin)	5 years
60814 60815 60816	Side Bend	W11.5xH20mm								

Photoelectric Parameters

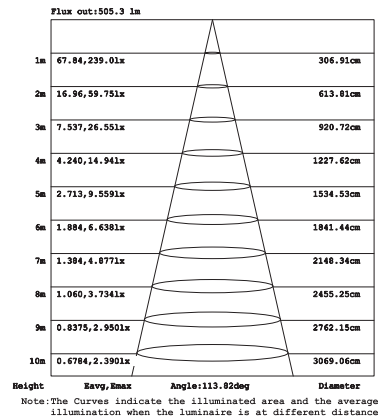
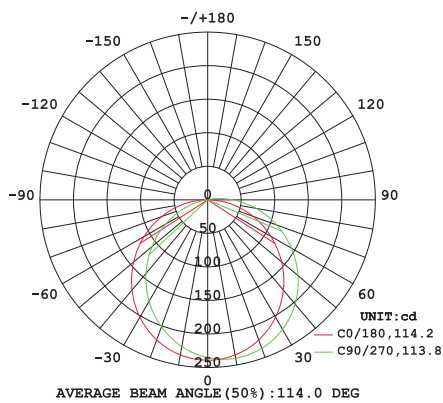
Product No.	Style	Power (±10%)	Operating Voltage	Finished Product CCT/ Wavelength	CRI80 4000K		CRI90 4000K		Beam Angle
					Luminous Flux±10%	Light Efficiency	Luminous Flux±10%	Light Efficiency	
60810 60811 60812	Top Bend	14W/M	24VDC	2700K +/-120K 3000K+/-150K 4000K+/-300K	820lm/M	58lm/W	700lm/M	50lm/W	120°
60814 60815 60816	Side Bend			2700K +/-120K 3000K+/-150K 4000K+/-300K	560lm/M	40lm/W	480lm/M	34lm/W	

Other CCT on demand

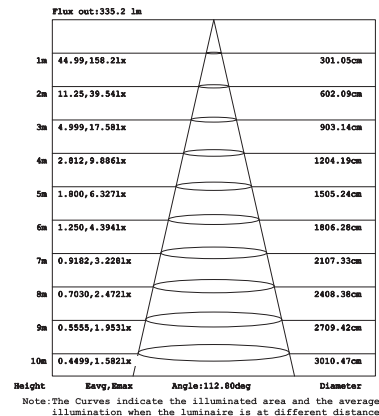
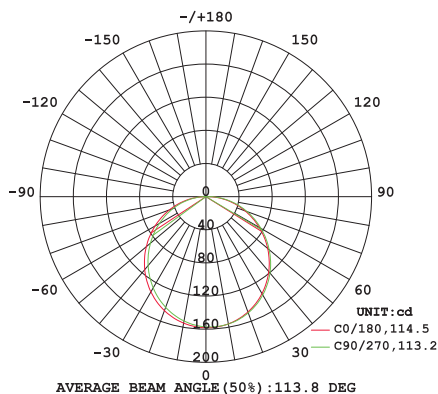
Note:

- (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 9W/M[2.74W/ft.] for operating ambient temperature in -20~55°C[-4~131°F].
- (4) The standard packing length is fixed by default per reel without installation accessories; customized packing length is required to be evaluated.
- (5) Installation accessories pack should be ordered separately according to specific case.

Light Distribution Diagram


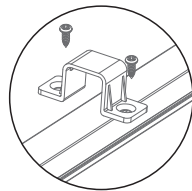
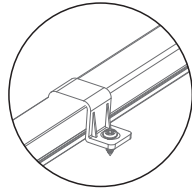
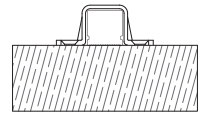

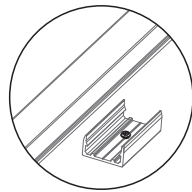
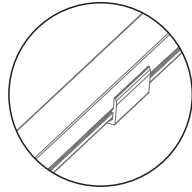
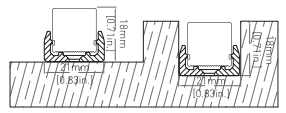
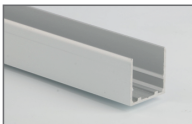
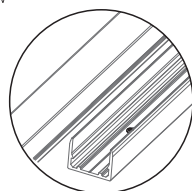
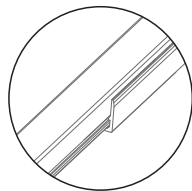
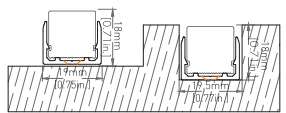

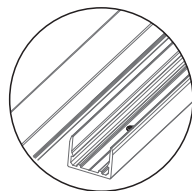
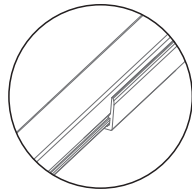
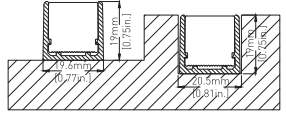

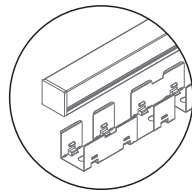
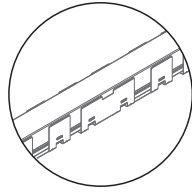
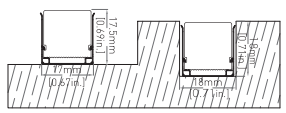


Top Bend (14W, CRI90, 4000K)



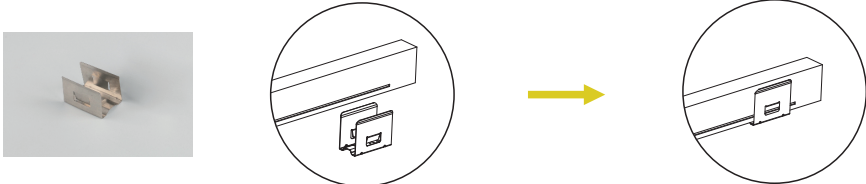
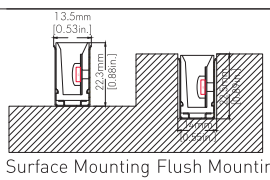
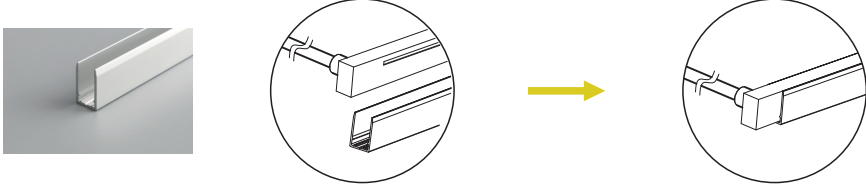
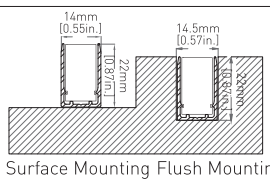
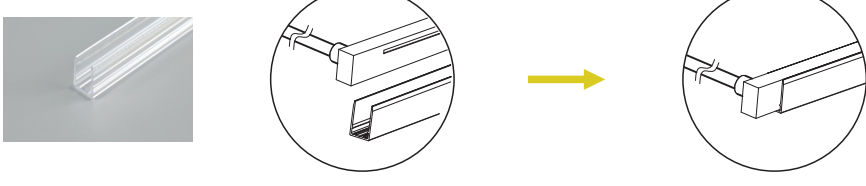
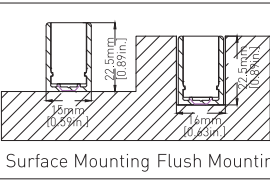
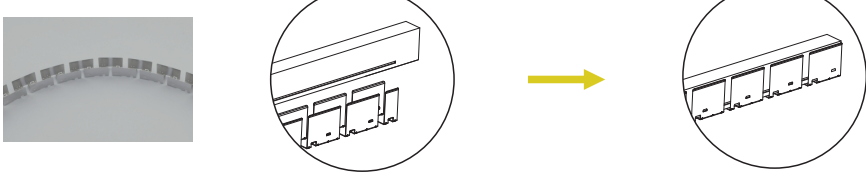
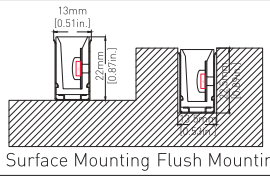
Side Bend (14W, CRI90, 4000K)

Installation (Top Bend 60810-11-12)

<p>Fixed by clip and screw</p> 			 <p>Surface Mounting</p>
<p>Fixed by bracket and screw</p> 			<p>Groove size is shown as below</p>  <p>Surface Mounting Flush Mounting</p>
<p>Fixed by aluminum profile and screw</p> 			<p>Groove size is shown as below</p>  <p>Surface Mounting Flush Mounting</p> <p>Attention: Aluminum profile can not be used in swimming pool.</p>
<p>Fixed by PC profile and screw</p> 			<p>Groove size is shown as below</p>  <p>Surface Mounting Flush Mounting</p>
<p>Fixed by bendable bracket and screw</p> 			<p>Groove size is shown as below</p>  <p>Surface Mounting Flush Mounting</p>

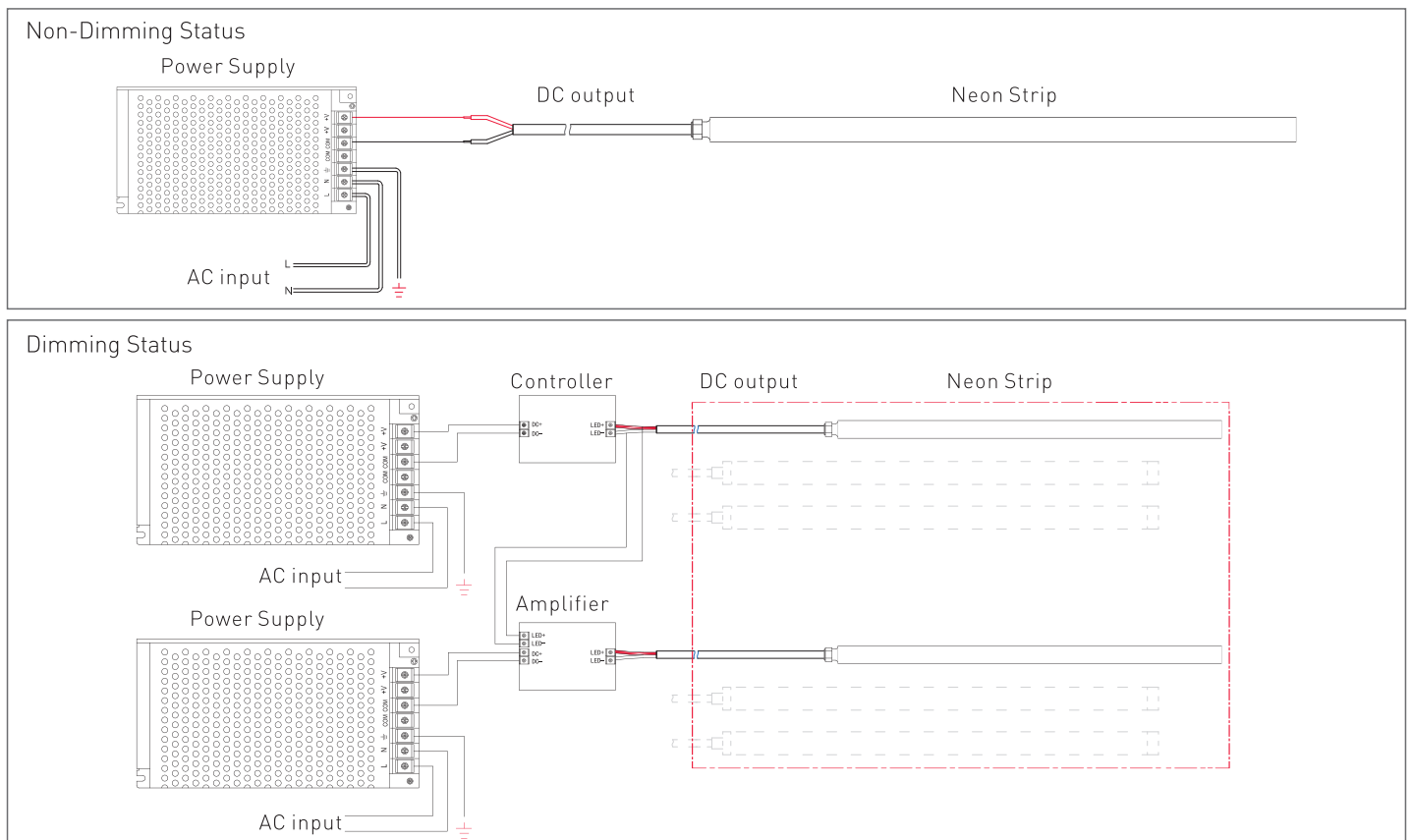
Note: It's also support flush mounting into groove by gluing process.

Installation (Side Bend 60814-15-16)

<p>Fixed by bracket and screw</p> 	<p>Groove size is shown as below</p> 
<p>Fixed by aluminum profile and screw</p>  <p>Attention: Aluminum profile can not be used in swimming pool.</p>	<p>Groove size is shown as below</p> 
<p>Fixed by PC profile and screw</p> 	<p>Groove size is shown as below</p> 
<p>Fixed by bendable bracket and screw</p> 	<p>Groove size is shown as below</p> 

Note: It's also support flush mounting into groove by gluing process.

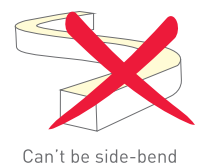
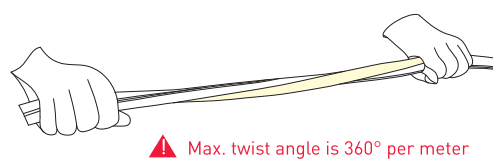
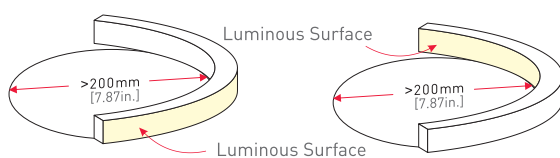
Connection



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 200mm[7.87in.] for Top Bend 60810-11-12 and 120mm[4.72in.] for Side Bend 60814-15-16, too small bending diameter will break the product.
6. Minimum twist angle is 360° per 1000mm [39.4in.].
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.
10. Bend and twist diagram is shown as below.

Top Bend 60810-11-12



Side Bend 60814-15-16

