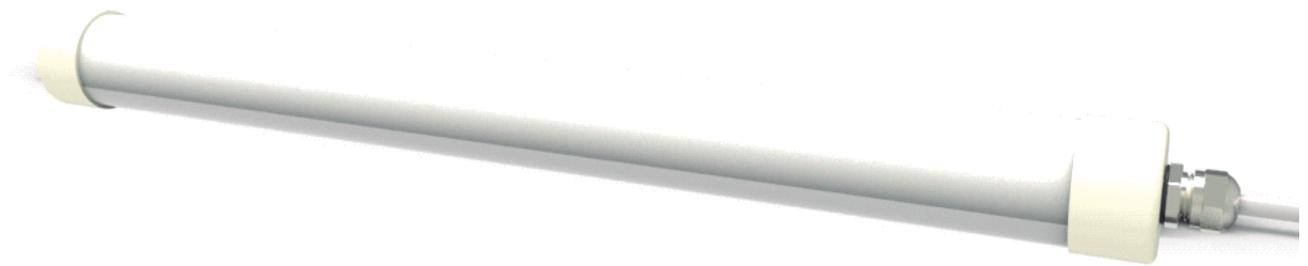


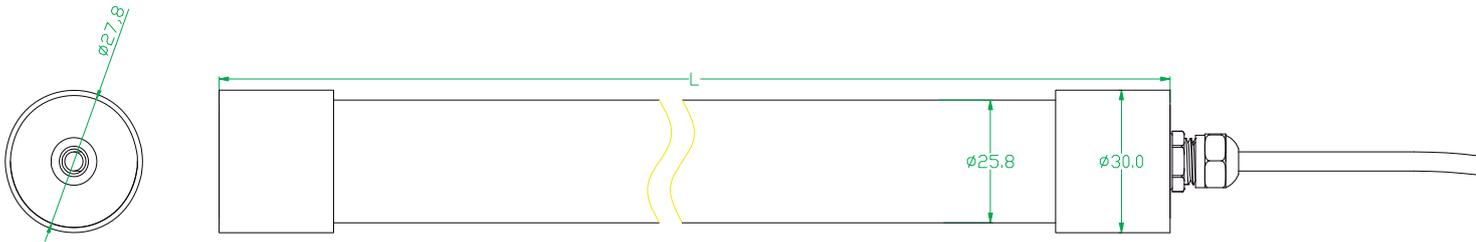
TUBE LED PROFRESH IP65

1st Part: Product Description

1.Photos and Size

L: 0.6m, 1.2m ,1.5m





1. Product feature

- 1) Energy-saving : The high power 2835 LED as light source, 80% energy saving than incandescent.
- 2) Environmental Protection: does not contain mercury, lead and hazardous substances, no environmental pollution, no infrared and ultraviolet to avoid harm to the human body, its green lighting products.
- 3) Long lifespan: The life of up to 50,000 hours or more.
- 4) Level of protection : IP6, can be used in the environment of water mist, water vapor and water spray.
- 5) Using the PC plastic for the lamp body, two-color injection, above the lamp beads are light-emitting surface, Beam Angle is 120°.
- 6) Input voltage 36V, external power supply, DC constant current driver, no flicker. Within a safe voltage range, safe and reliable.
- 7) Aluminum embedded in the PC tube, aluminum plate inserted into the aluminum tank, smooth contact surface, good cooling effect, especially effect well while used in the freezer with a low-temperature environment, PC plastic temperature range of -45°~ 50°, will not cause harm when used in the refrigerator and freezer.
- 8) Light transmittance of the milky PC cover is above 80% , light transmittance of the clear PC cover is above 90%,the lighting has a higher luminous efficiency, excellent color Rendering, no flicker. Making the food color looks more real, better for the customers to pick food.

3. Range of Application

For assembling in fresh lighting, freezer, refrigerator, shelves, flowers and fish, meat, deli, dining table, supermarket refrigeration reserve. etc



PROFRESH TUBE

Watt: 9w/18w/22w
Size: 0.6m/1.2m/1.5m
LED: Epistar
Light Efficiency: 90-125lm/w
CRI: Ra>
Color: Pink/Golden/Blue/White etc



IP65



2nd Part: Technical Parameter

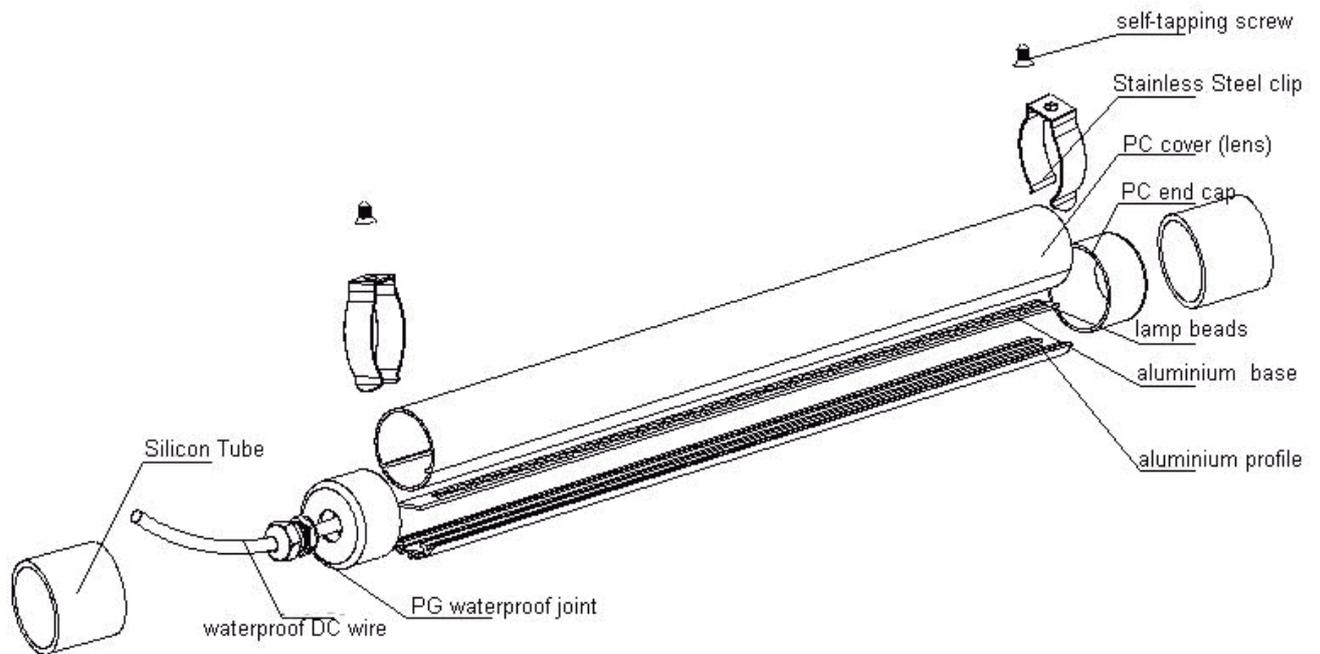
1.Basic Technical Parameter

type	L600	L1200	
Rated power	9W	18W	
Power Consumption	9±1W	18±1.5W	
Input voltage	DC 12V		
LED quantity	48	102	
LED source	SMD2835 (2700-7000K)		
LED Luminous Efficiency	85-120lm/W (Milky cover has low Luminous Efficiency but high light transmittance)		
LED Luminous Flux	760-1080lm	1530-2160lm	
Luminaire Efficiency	>85%		
Illumination Uniformity	>0.8		
Correlated Color Temperature	2700K-7000K		
Color Rendering Index	Ra≥80		
Beam Angle	120 °		
Degree of Protection	IP66		
Operating Ambient Temperature	-45℃~50℃		
Lamp Operating Temperature	Ambient Temperature	The Radiator Surface of the Lamp Body	LED Lights Pin
	27℃	41℃	47℃
Certificate	CE、RoHS		
lifespan	50000H		
Dimensions	As specified in the product dimension drawings		
Weight	0.2kg	0.4kg	

3rd Part: Product Reliability

NO.	Item	Test methods	Through the standard
1	Temperature rise test	Ambient Temperature of 25°C, the lamp surface temperature below 65°C, LED temperature below 75°C	Ambient Temperature of 25°C, the lamp surface temperature below 65°C, LED temperature below 75°C
2	High temperature and pressure test	Ambient temperature of 60°C, enter the 1.1times rated voltage, light work 24hours	Lighting to work properly after the test
3	Low temperature and pressure test	Ambient temperature of -15°C, enter the 0.9 times rated voltage, light work 24hours	Lighting to work properly after the test
4	Vibration tests	Vibration velocity is set to 300rev/min, the amplitude is set to 2.54 cm, six surface vibration test on the packaged product.	The lamps can not occur off parts, structural damaged, the lighting does not shine and other anomalies.
5	Impact test at room temperature	Ambient temperature of 25°C, lighting 30s, lighting -30s, circulation 10,000	The lamps can not occur leakage,not lit and electrical anomalies
6	Life test	Ambient temperature of 25 ° C, lit test, the first three months every 10 days, testing, optical parameters, three months after a month testing the optical parameters, 70% of the initial luminous flux for the life of the product, turn off the lights for the absolute life	Luminous flux for 90% of the initial luminous flux of 3000 hours, 30,000 hours of luminous flux should be greater than 70% of the initial luminous flux

4. Structural representation

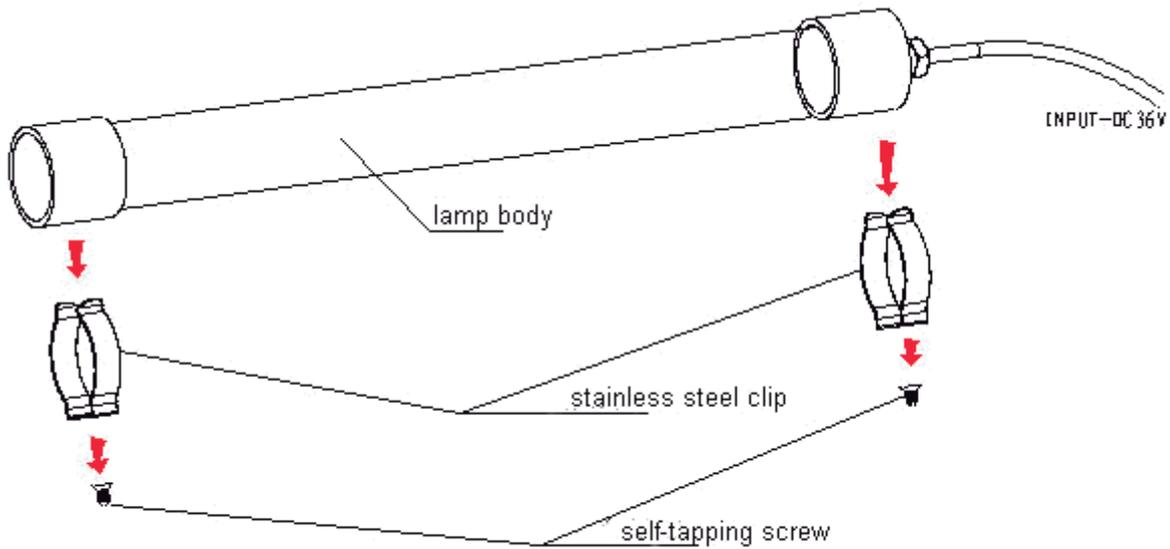


5. Package

1. PE bag: two snaps plus two self-tapping screws into the PE zip lock, Light body into another PE bag.
2. Cylindrical carton: all lamp attachments together into a cylindrical carton.

6. Installation Instructions

- 1、 open the package,take out the product to check whether it has collision injuries or damage.
Please contact with the manufacturer immediate if it has problems.
- 2、
 - 1) : fix the snap with self-tapping screws in the wall.
 - 2) : put the lamp body into the clip, and connect the power to use.



7、 Note description

- 1) 、 All of the above test data are within the specified range of input voltage and rated output, the working environment temperature of 25℃, humidity less than 85%.
- 2) 、 Checking the voltage, current compliance requirements; please do not disassemble product without authorized.
- 3) 、 If the products can not work properly due to product quality defects, the warranty replacement within 3 years.