



## Product Instructions

### 120LED Single Street Lamp Holder



120W LED street light adopts American high power Cree LED to be light source, can be used directly in 100-240V AC. As a new energy-saving light head, it has the features of long life span, high brightness, energy saving, environment friendly, high stability and so on. The light body uses Aluminum die-casting technology and the matched glisten cup was vacuum-plated aluminum on its appearance. The glisten cup has the advantages of less astigmatism, even brightness, besides, it can beam long distance and has good light efficiency. The reflector adopts good quality toughened glass, all parts uses stainless steel material and can guard against dust, water and rust. The mainly features of our led street is super energy saving, easy installation, wide application etc.. It can be used together with solar panel and wind power, greatly reduce the cost of installation and maintenance and to be the ideal replacement of traditional LED street light. It is usually used in main street, branch road, park, uptown, school and so on.

#### **Product Strength:**

- Uniformly distributed light and color without lens or halo.
- Great illuminating angle:
- Accurate constant-current driving with current fluctuation less than 1mA

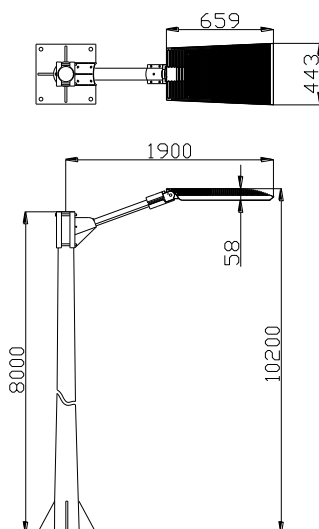
- Strict temperature control
- Special circuit protection
- Variable power

## 1. Brief of Product introduction

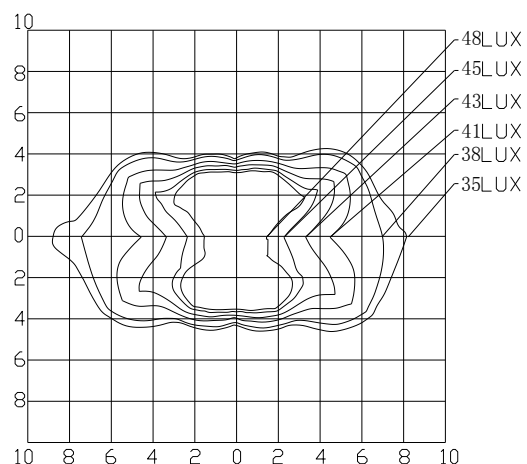
### 1.1 Technique Parameter

Par No.	IL-SL120-W-220	Wavelength(K)	6500±500K
LED Quantity	120 Pcs	colouration index	Ra>75
Luminous efficiency	>85m/w	Junction temperature	<70 degrees
Input voltage	100-240V AC 50/60Hz	Working environment	Environment temperature -35~40℃, Relative humidity 10%~90%
Input current	720m A	Storage temperature	When it doesn't work, the storage temperature is -35 ~ 80 degrees
Input power	170W	Life span	>30000Hrs
Power Factor	>0.9	Material	Aluminum alloy, PC, toughened glass
Power efficiency	>90%	Size	659x443x58mm
Projection distance	±9m	Height of Installation	10M
Luminous	10800 lm	Net weight	14.5KG
Lighting efficiency	>85%	IP Rank	IP65

### 1.2 Dimension of the frame:



### 1.3 Complanate iso-illuminance curve:



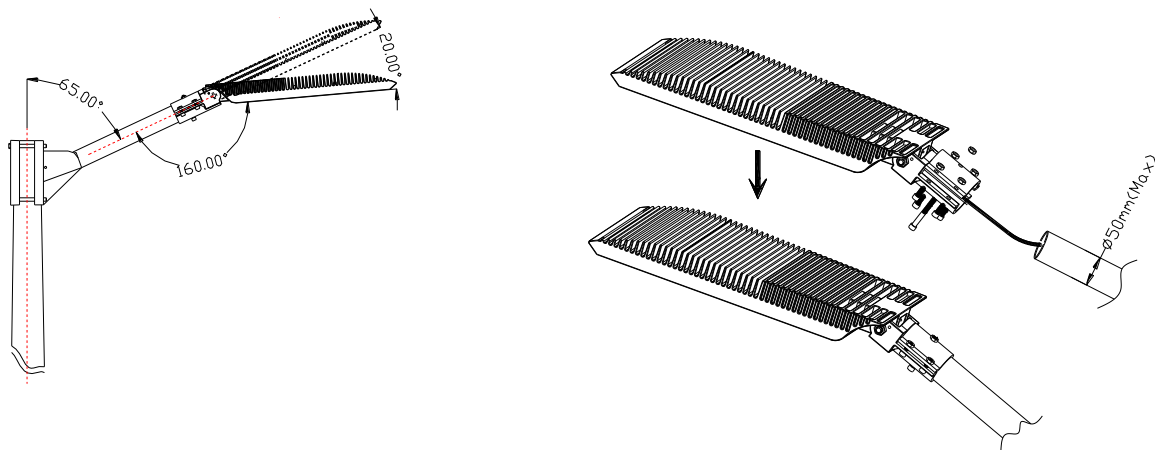
Hight:10m,

Max Lumen:50lux

## 2. Product Installation

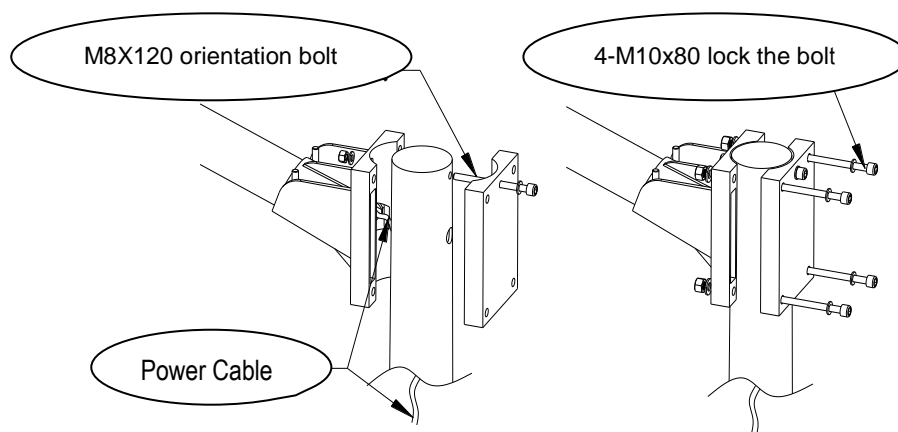
### 2.1 Installation of the lamp head and lamp arm

Loosen the lamp head and adjust the bolt, then keep the lamp head at a right angle and screw the bolt tightly. The recommended angle is as below for your reference:



Installation Angle

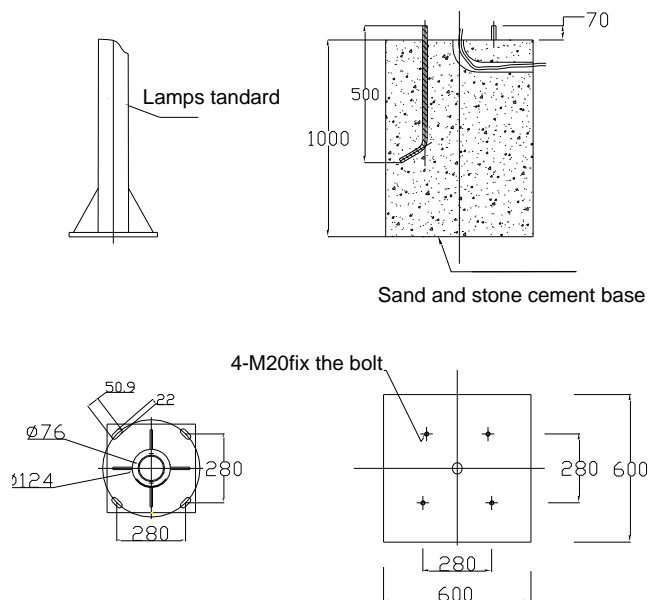
### 2.2 Connection with lamp stand



1. The lamp body must to be connected with the earth.
2. We suggest the user to add avoiding -thunder device .
3. All the parts should be tightened well, under the installation to make sure all the connection is fixed enough.
4. Lighting installation and maintenance work must be by a professional operation
5. Terminal shown in the figure at the bottom of the poles

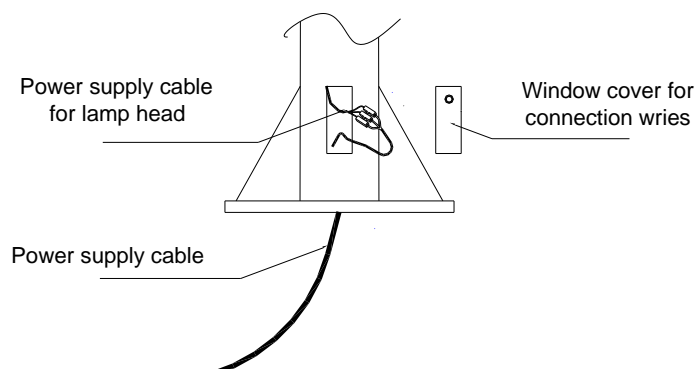
### 2.3 Fixup of the lamp

Connect the lamppost with concrete. The recommended size of the concrete base is 1000\*600\*600 (mm). Bury 4pcs M20\*600 (mm) L bolts in the concrete base, and the distance between them is 280\*280 (mm) and outside part of the whole should be 70 (mm). At the same time, bury 1pcs power cable ( different numbers of leds need different cables ), the outside power cable length should be 600 (mm). Finally connect it with M20 nut, spacer sheet and spring, and the bolt should be fixed tightly.



### 2.4 Connection Way for cables

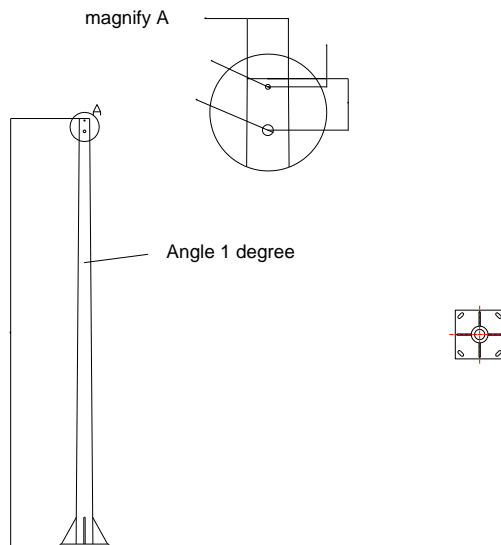
Put the power cable to the window cover through the hole at the base of the lamppost, then connect the wire of the lamp head and power cable. All above steps should be done by technicians or professional engineers. Reference picture is as follows:



Attention:

1. The lamp body must to be connected with the earth.
2. we suggest the user to add avoiding -thunder device .
3. All the should be tightened well,under the installation make sure all the connection is fixed enough.
4. All the installation and maintenance work for the lamp should be done by technicians and professional engineers.

### Dimension of lamppost for reference (unit: mm)



Size of 6m lamppost for reference

#### Instructions of optical-control and time-control functions:

1. At nightfall, the lamp will light up automatically when the lumen is less than 18lux, or it switches off.
2. The lamp will work at the maximum power in the beginning 5 hours, then lower into half of the maximum power 5 hours later automatically. It can turn off automatically once the lumens is higher than 70 lux.

Remark: The lamp will light up in 1mins after power being on. .

3. The functions of the lamp above can be programmed according to the request of clients before manufacturing. Clients can not change after shipment.

#### Attentions:

1. Please do not use coarse objects or cleanser to clean the lamp, and the lamp must not be washed with high-pressure water because it will damage the water protection parts of the crust.
2. Some parts of the system are unalternatively and no spare parts, and don't offer the repairment service. If they are damaged, please abandon it.
3. Once the lamps reach the lifespan, users can connect with relative recycle in local place to talk about the callback solutions. Please keep the callback work well.
4. The recommended outside temperature is  $-35^{\circ}\text{C}$ - $40^{\circ}\text{C}$
5. Please stop lighting if the lamp is broken or the cables have problems with insulation. The lamps should be checked termly.

*Indoor and outdoor use available*



**Warning:**

1. Please do not connect power supply when the light is still in box.
  2. Please do not connect high voltage before the installation, and make sure that the fixture connect the earth.
  3. Change the protection cover completely if it was broken.
- Pay attention to anti-fire, anti-electricity and anti-shake.



Please kindly read the instructions before installation, and keep it well for your future reference.

**Attention:**

1. Caustic or dissolvent chemicals may damage the protection crust.
2. Normal working temperature : -35°C-40°C, humidity: 0-95%,if overrun the range, it will effect the lifespan of lamp.



**Common failures and solutions:**

1. If the lamp can not light up, please check whether it connects power supply well and whether the switch is on.
2. If the lamps frequently turn on and off, please check whether the connection between power and lamp is fixed enough.

Note: Please contact with technicians in case of above solutions don't work.

