



LED Shoebox II Series

SB2-100/150/190/240/300-AW/HV-XXK-ZYY



Description:

Shoebox II can be used in parking lot, plaza, alley, park, farm, gas station, community, roadway and other outdoor location. Die-casting structure, shockproof, strong corrosion-resistance, 6 installation methods suitable for all kinds of outdoor places. 4 beam angles optional, suitable for light distributions in all kinds of places. Photocell and Microwave sensor smart control modes are optional.

Features:

1. DLC Premium certified, 130 LPW lighting effect;
2. Die-casting design, more durable, stronger;
3. Motion sensor with remote, convenient to set fixtures;
4. PC lens, anti-UV, good aging resistance;
5. A variety of light distribution optional: Type II/Type III/Type IV/Type V;
6. One person can install fixture thanks for the unique straight arm;
7. Operating environment temperature: -25-40°C;
8. Corrosion resistance grade: W.



Model: SB2-XXX-AW/HV-XXK-ZYY

SB2-	XXX-	AW/HV-	XXK-	ZYY
Family	Power: 100 150 190 240 300	AW: 100-277V HV: 347-480V	Color : 30K 40K 50K 57K	10:Type V 20:Type II 30:Type III 40:Type IV S10:Photocell Type V S20:Photocell Type II S30:Photocell Type III S40:Photocell Type IV S11:Motion sensor Type V S21:Motion sensor Type II S31:Motion sensor Type III S41:Motion sensor Type IV

Specifications:

Model	Color	Lumen(lm) (±10%)	Beam (angle°)	LED Type	Power(w) (±10%)	Voltage, Frequency	Current	CRI	PF
SB2-100-AW-57K-10/20/30/40	5700K	13000	Type II Type III Type IV Type V	SMD 2835	100	AC100-277V 50/60Hz	1.2A	> 80	≥0.9
SB2-100-AW-50K-10/20/30/40	5000K	13000							
SB2-100-AW-40K-10/20/30/40	4000K	12500							
SB2-100-AW-30K-10/20/30/40	3000K	12000							
SB2-150-AW-57K-10/20/30/40	5700K	19500	Type II Type III Type IV Type V	SMD 2835	150	AC100-277V 50/60Hz	1.8A	> 80	≥0.9
SB2-150-AW-50K-10/20/30/40	5000K	19500							
SB2-150-AW-40K-10/20/30/40	4000K	18700							
SB2-150-AW-30K-10/20/30/40	3000K	18000							
SB2-190-AW-57K-10/20/30/40	5700K	24700	Type II Type III Type IV Type V	SMD 2835	190	AC100-277V 50/60Hz	2.2A	> 80	≥0.9
SB2-190-AW-50K-10/20/30/40	5000K	24700							
SB2-190-AW-40K-10/20/30/40	4000K	23700							
SB2-190-AW-30K-10/20/30/40	3000K	22800							
SB2-240-AW-57K-10/20/30/40	5700K	31200	Type II Type III Type IV Type V	SMD 2835	240	AC100-277V 50/60Hz	2.7A	> 80	≥0.9
SB2-240-AW-50K-10/20/30/40	5000K	31200							
SB2-240-AW-40K-10/20/30/40	4000K	30000							
SB2-240-AW-30K-10/20/30/40	3000K	28800							
SB2-300-AW-57K-10/20/30/40	5700K	39000	Type II Type III Type IV Type V	SMD 2835	300	AC100-277V 50/60Hz	3.5A	> 80	≥0.9
SB2-300-AW-50K-10/20/30/40	5000K	39000							
SB2-300-AW-40K-10/20/30/40	4000K	37500							
SB2-300-AW-30K-10/20/30/40	3000K	36000							

0-10V dimmable: 10%-100% brightness dimmable

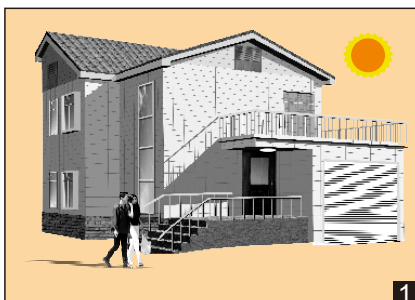


Features of Shoebox LED Light with Motion Sensor

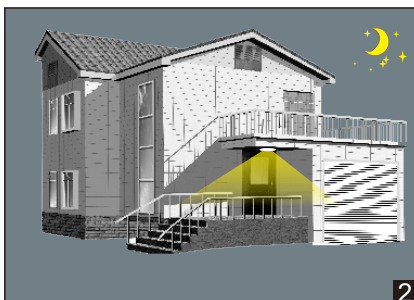
1. Adopt automatic 5.8 GHz microwave detecting signal, conform to ISM standard, stable sensing signal, and it won't be affected by noise, temperature, humidity;
2. The detection signal can penetrate plastic, glass, wood panel and other thin non-metallic objects;
3. Far detection distance, the max. front detection distance is 18m, and the max. coverage radius is 8m;
4. Light sensor of Internally integrated can distinguish sun light and LED light, when detect ambient brightness, it won't be affected by LED light;
5. The application function is set via remote controller, simple and convenient.

Application function diagram

The ShoeBox LED light with Motion Sensor adopt the latest 5.8 GHz microwave sensor, according to Doppler principle, it transmit and receive high-frequency microwave signal to detect moving object, and the detecting signal can penetrate plastic, glass, wood panel and other thin non-metallic objects. Photocell of Internally integrated can distinguish sun light and LED light, when detect ambient brightness, it won't be affected by LED light. The product combine 1-10V dimming power supply, it can automatically control switch and adjust brightness according to brightness of natural light, surrounding pedestrian or other moving objects, as below figure:



1 When brightness of natural light is higher than 50Lux, the lamp is off, even there is pedestrian or other moving objects, the lamp will not be on.



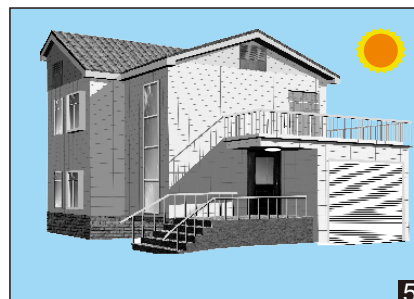
2 When brightness of natural light is lower than 50Lux, 1 minute later, the lamp will be on 30%, and the moving sensor function start.



3 After moving sensor function start, if there is moving object around, the brightness of lamp be will be from 30% to 100%, and than keep 5 minutes.



4 If there is no moving objects, 5 minutes later, the lamp recover 30% brightness.



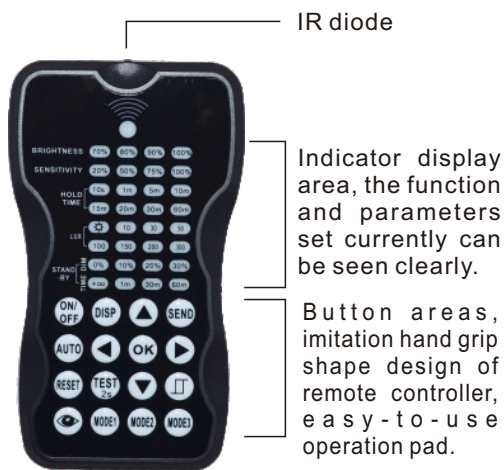
5 When brightness of natural light is higher than 100Lux, 1 minutes later the lamp will be off and disable sensor function.

Note: above functions are defaults of our products, if product functions and parameters need to be revised, some other controllers need to be purchased and set, and the model of controller model is RC-100..

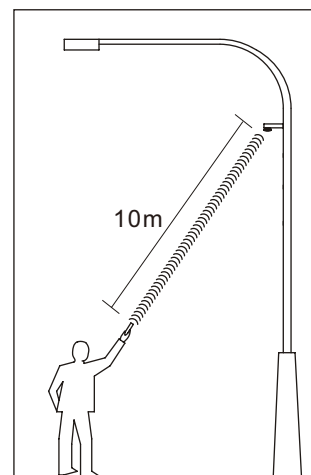
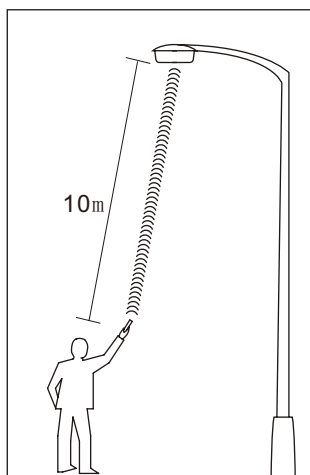


Brief introduction of remote controller

The application function of ShoeBox LED light with Motion Sensor can be set and revised, and brief introduction of RC-100 IR remote controller as below:



Remote Controller



Distance may vary depending on the lighting environment

		Permanent on or permanent off mode		DISPLAY Current Setting
		The selected parameters go to SEND		Back to previous settings before on/off model
				In test mode, hold time is only 2S, and stand-by time and daylight sensor are disable.
		Enter in Adjustable Control Parameters condition and navigate for UP and DOWN.		Confirm settings
		Navigate for Right and Left		Photocell On/Off, when the light level exceeds this setting, the lights will turn off even when the space is occupied. When light level goes below the settings, the light will turn on even without motion detection. This feature is disabled by default.
		The latest surrounding lux value overites pervious lux value learned.		
		To Save these New Settings parameters as Model 1/2/3		

Note: sensor Shoebox exclude remote controller, so the remote controller need to be bought separately. Model of remote controller: RC-100.



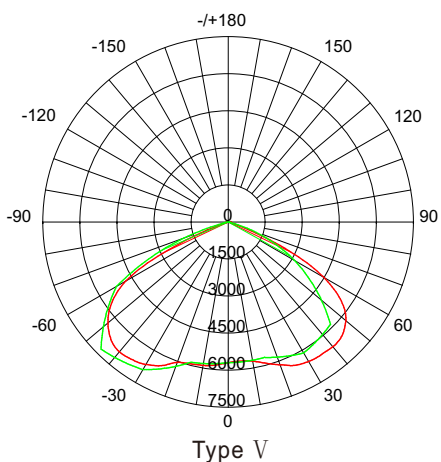
Characteristics of temperature controller

1. When operating temperature of lamp is higher than 50 °C , the temperature controller start protection function; lamp power decrease as original 70%, and play the role of protecting power supply and decrease light attenuation of LEDs;
2. Temperature controller is mechanical design, and load current is lower than 3mA, long lifetime up to five years;
3. Small size, built-in power supply cabinet, won't affect lamp appearance and waterproof.

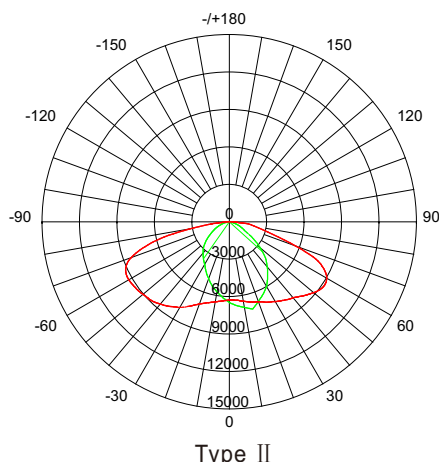
Photocell function

Light sensing series: environment: when environment illumination is 10LX, 15-120 seconds later, lamp will be on; when environment illumination is 60LX, 2-15 seconds later, lamp will be off.

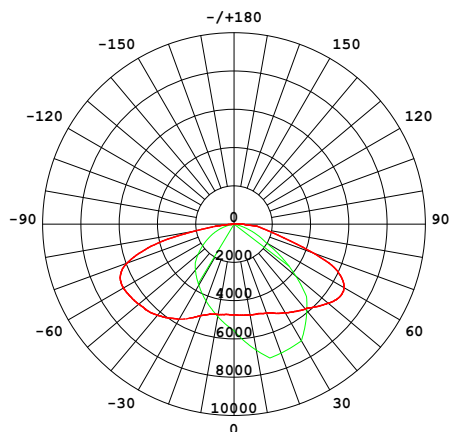
Intensity distribution diagram :



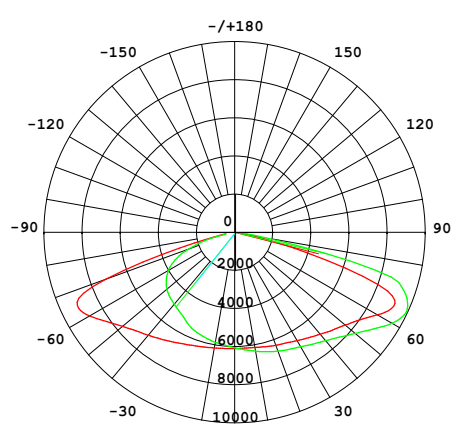
Type V



Type II



Type III

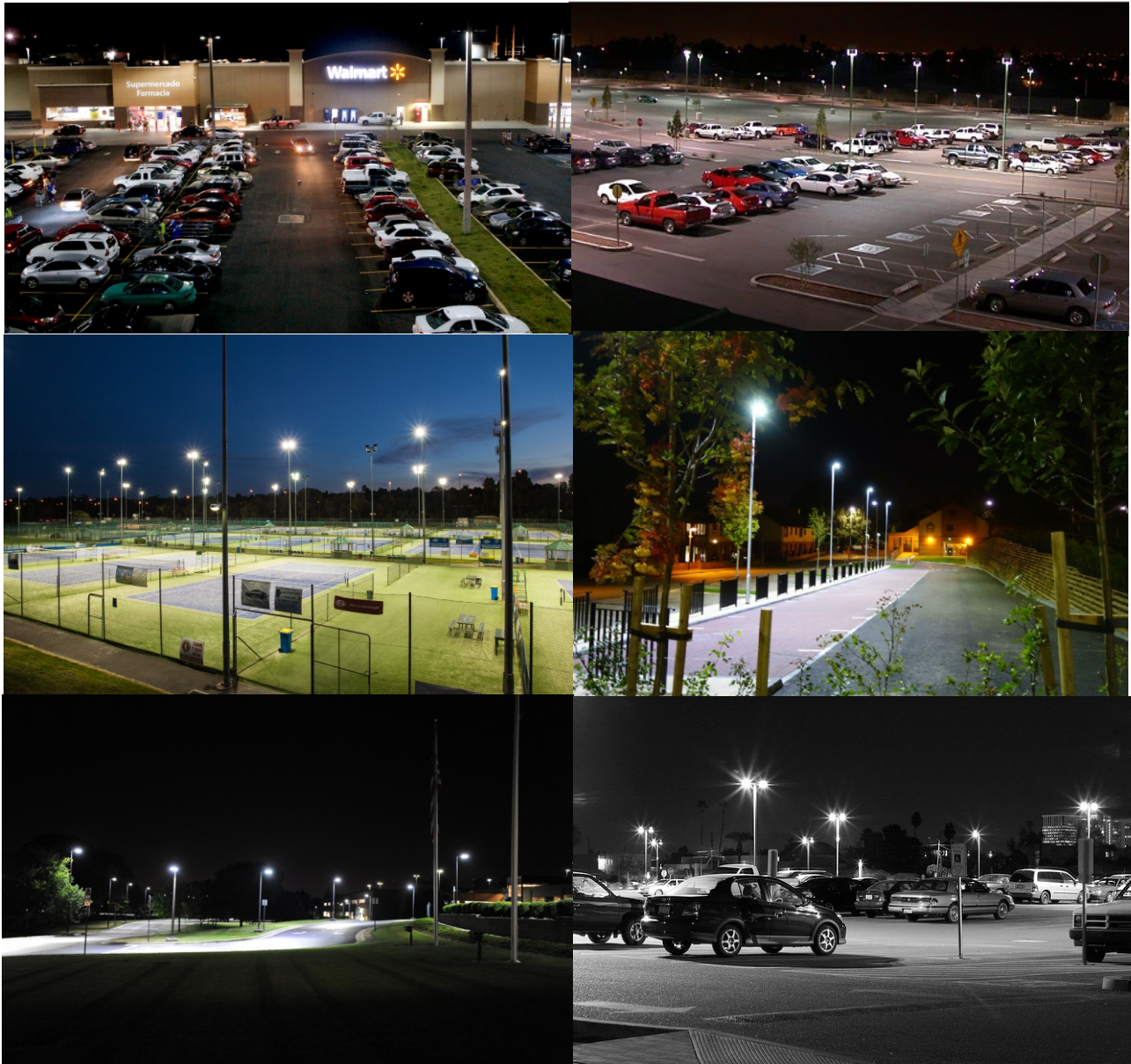


Type IV



Application :

Suitable for parking lot, plaza, roadway, park, farm, gas station, community and other outdoor places.

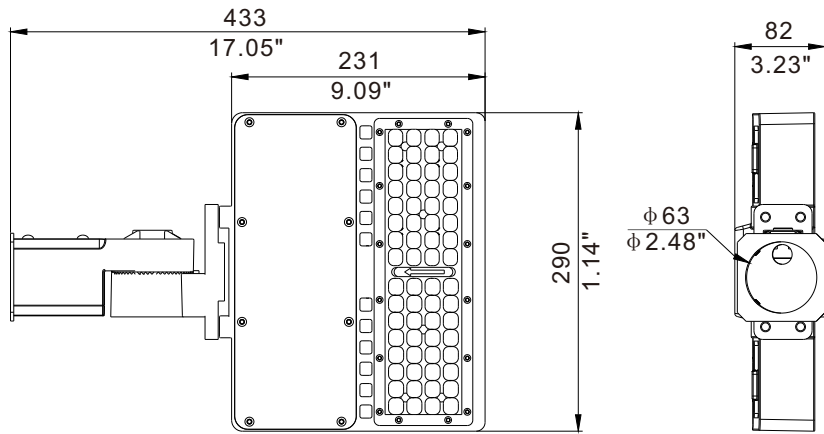




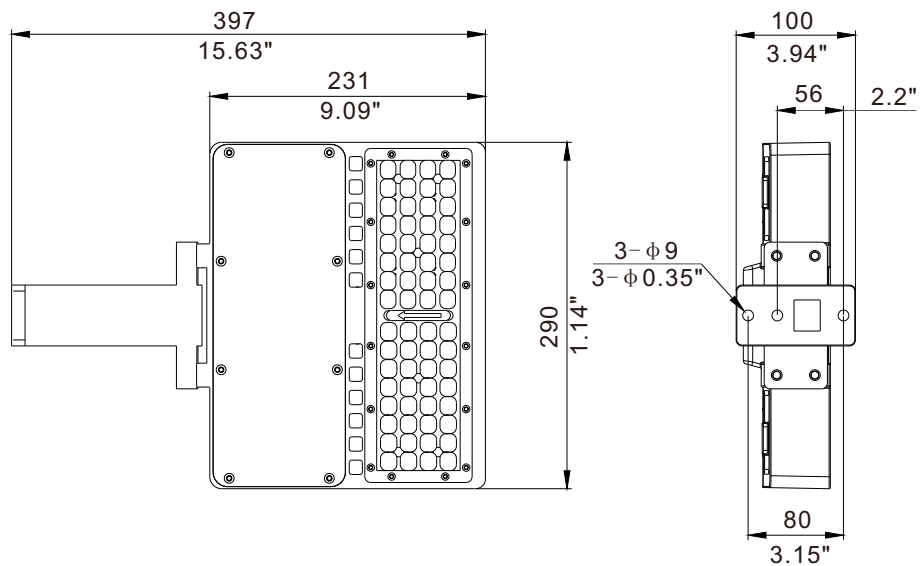
Dimension (Unit:mm/inch):

100W

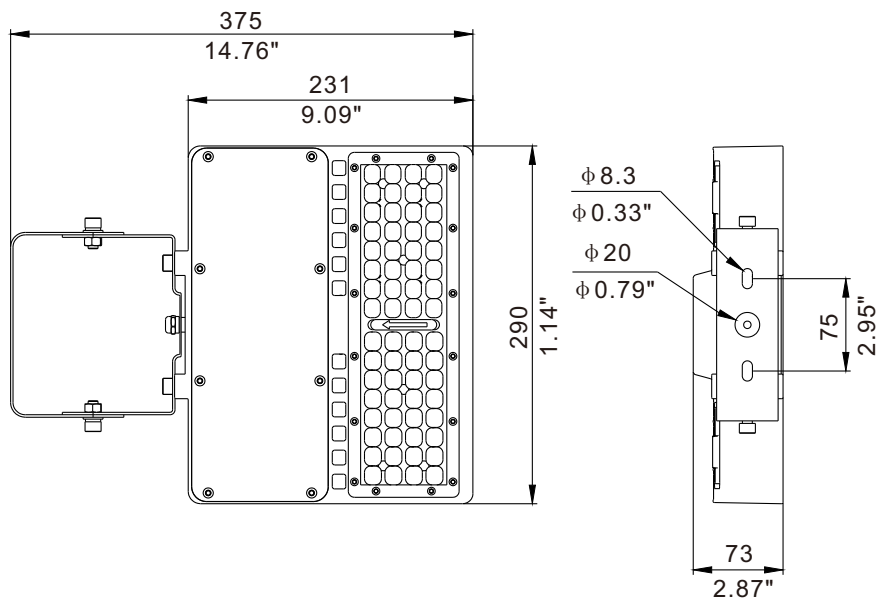
Slip Fitter:



Straight arm bracket:



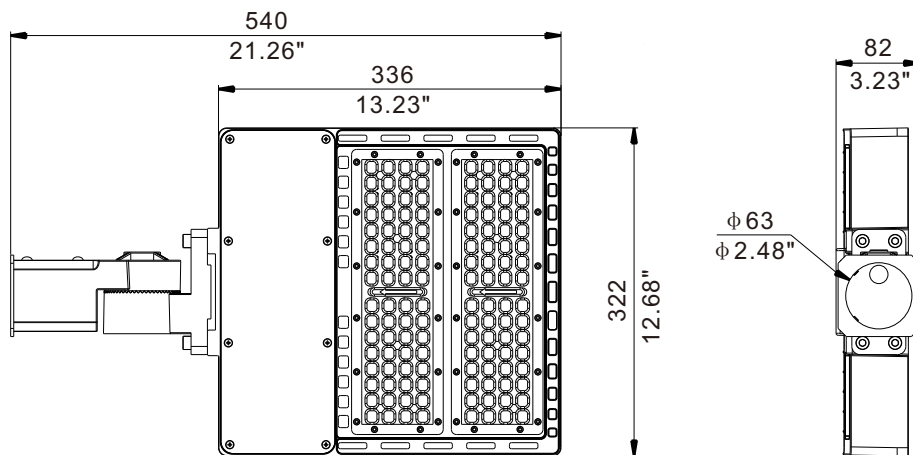
Trunnion bracket:



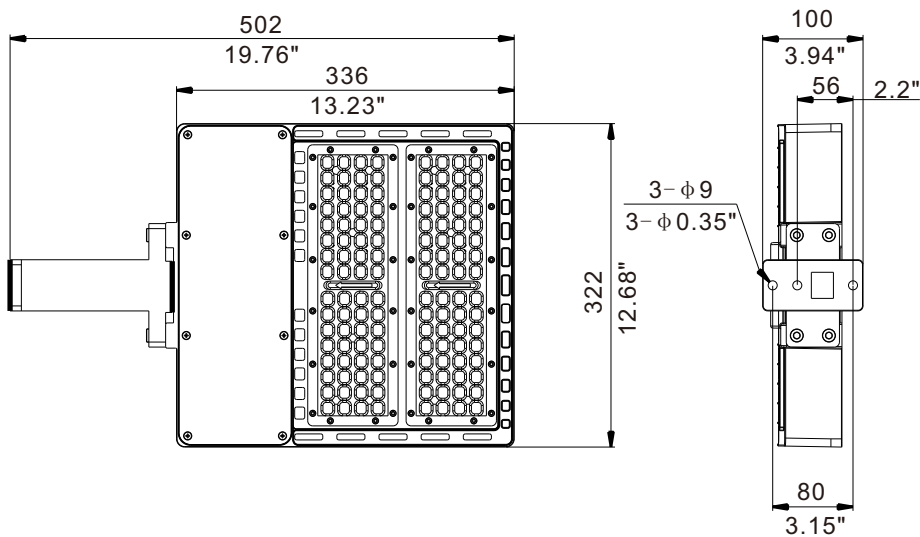


150W/190W

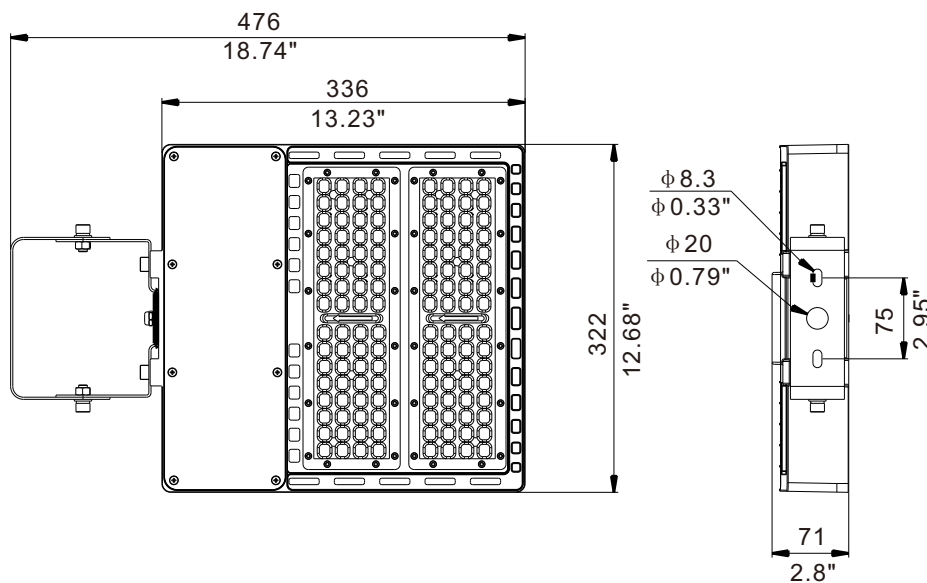
Slip Fitter:



Straight arm bracket:



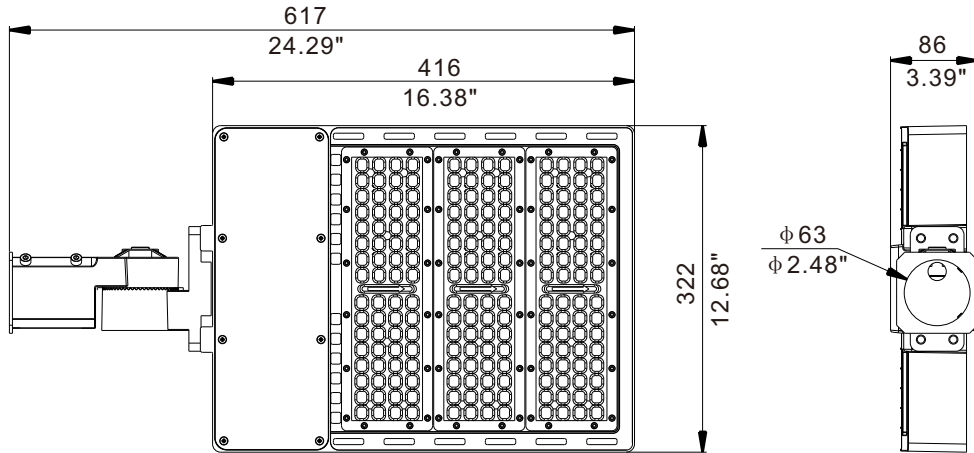
Trunnion bracket:



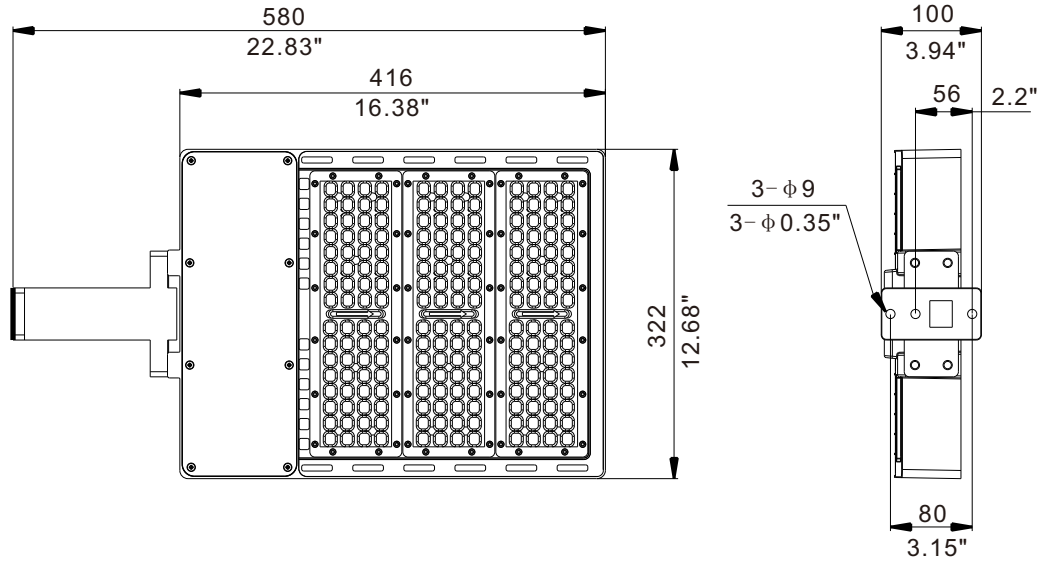


240W

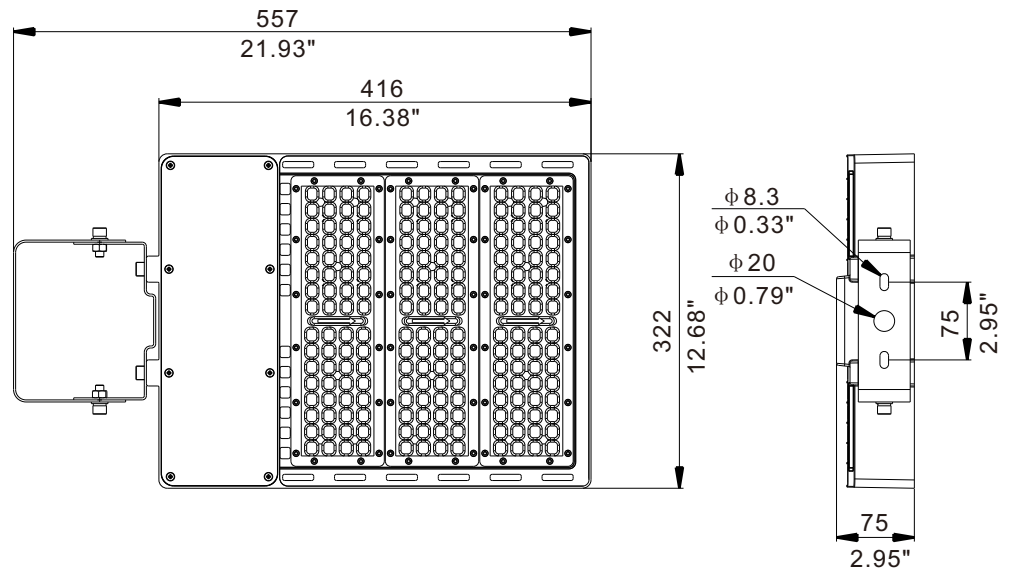
Slip Fitter:



Straight arm bracket:



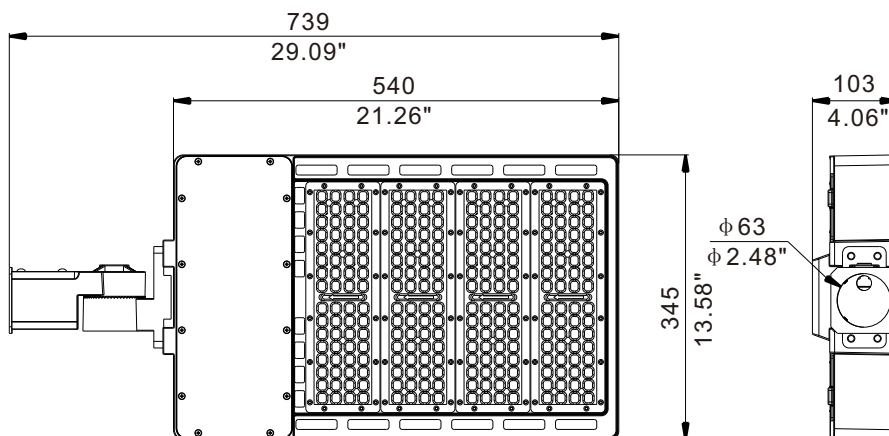
Trunnion bracket:



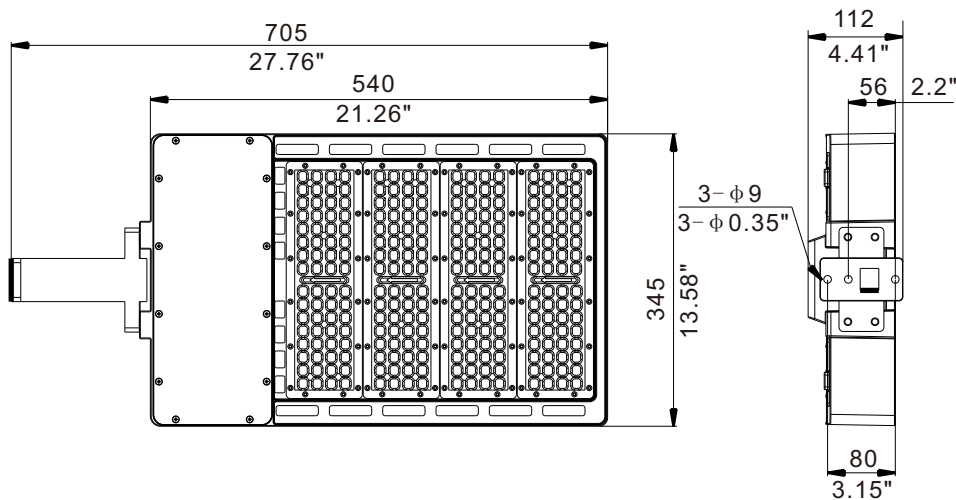


300W

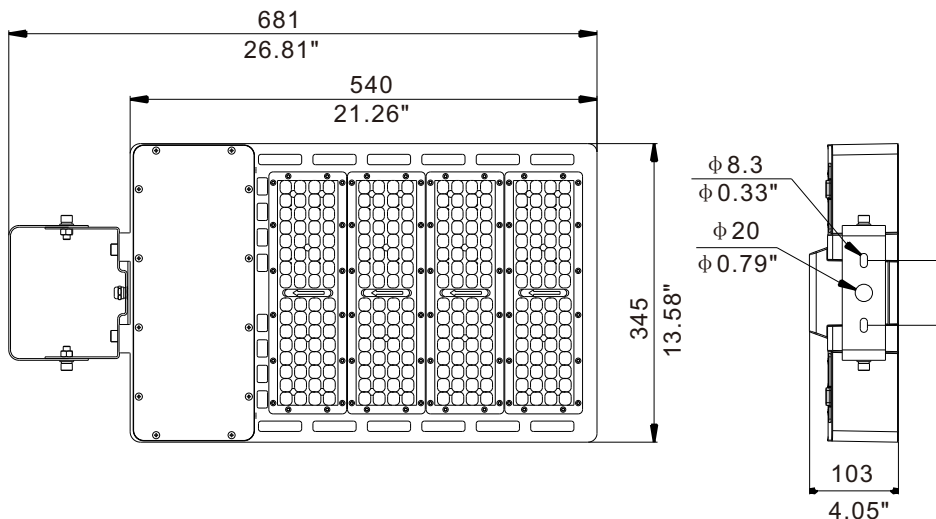
Slip Fitter:



Straight arm bracket:



Trunnion bracket:

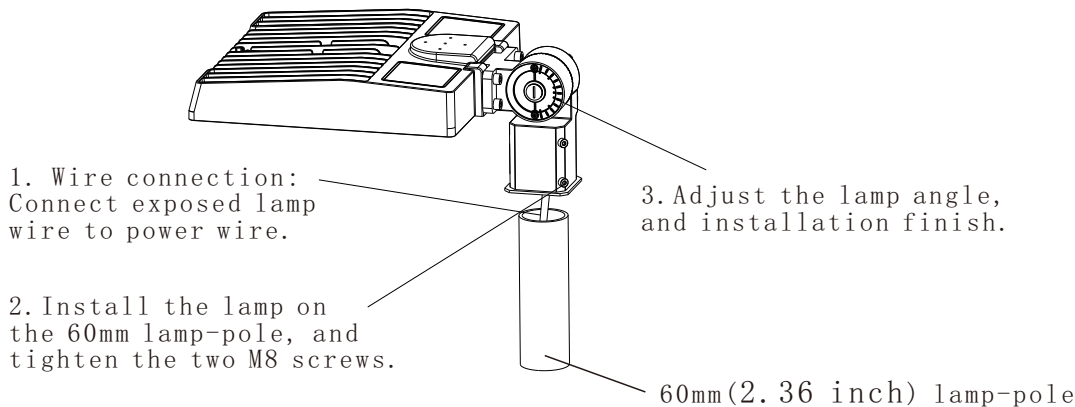




Installation:

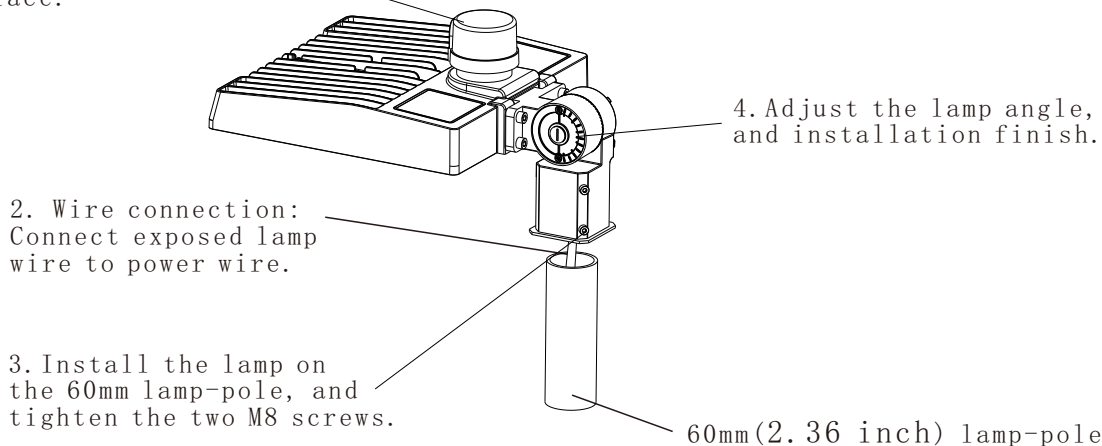
Slip Fitter:

60mm (2.36 inch) lamp-pole

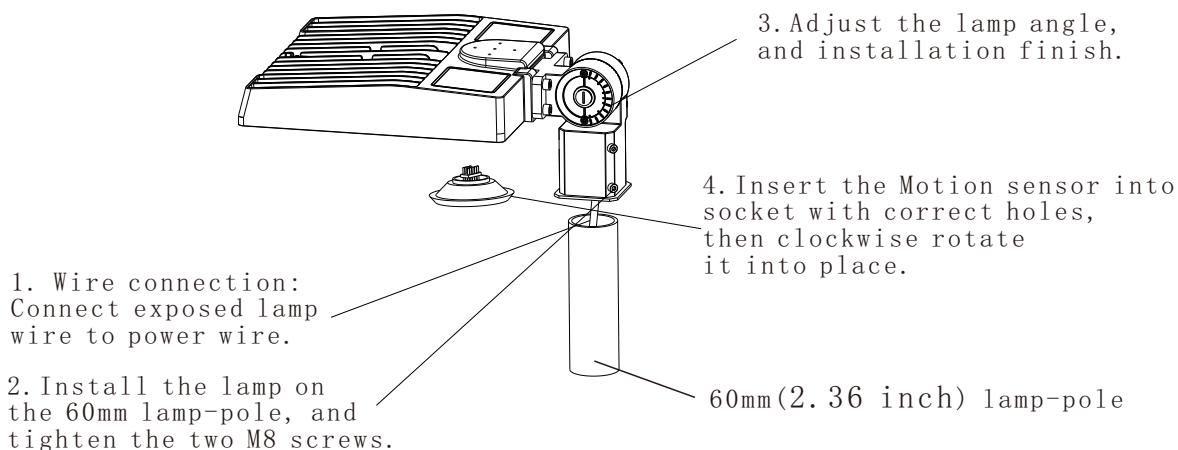


Photocell Series

1. Insert the light sensor into socket with correct holes, then clockwise rotate it into place.

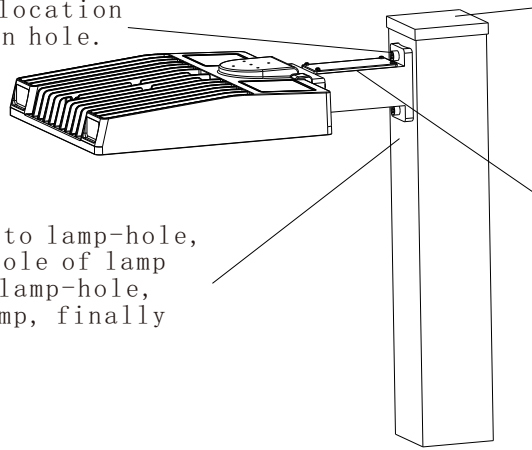


Motion Sensor series



**Straight arm bracket:
100-150mm(3.94-5.91 inch) square pole**

1. Confirm installation location according to installation hole.



2. Open pole Cap.

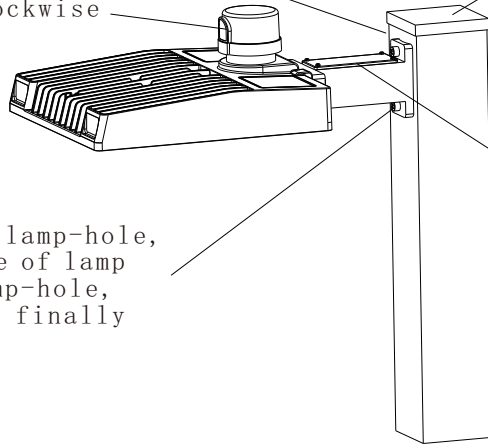
3. Put all of the wire into lamp-hole, and align installation hole of lamp to installation hole of lamp-hole, then fasten screws of lamp, finally installation finish.

4. Open lamp cover Connect exposed lamp wire to power wire;

5. Fix up pole Cap.

Photocell Series

1. Confirm installation location according to installation hole.
2. Insert the light sensor into socket with correct holes, then clockwise rotate it into place.



3. Open pole Cap.

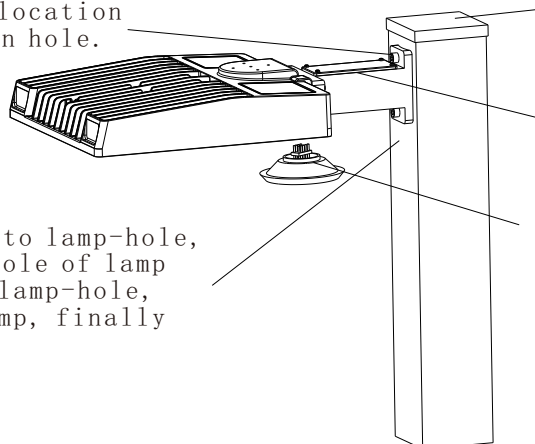
4. Put all of the wire into lamp-hole, and align installation hole of lamp to installation hole of lamp-hole, then fasten screws of lamp, finally installation finish.

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Motion Sensor series

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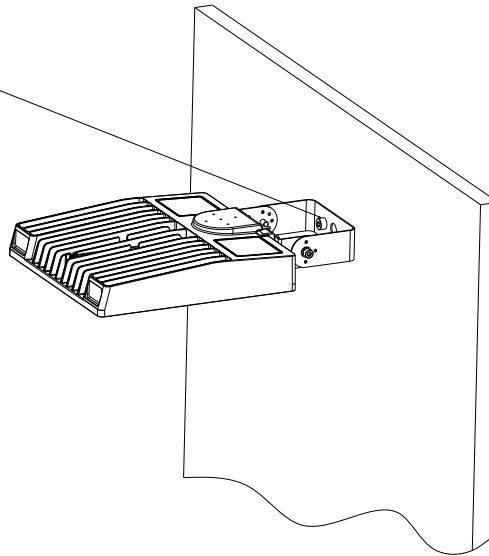
4. Open lamp cover Connect exposed lamp wire to power wire;

5. Insert the Motion sensor into socket with correct holes, then clockwise rotate it into place.

6. Fix up pole Cap.

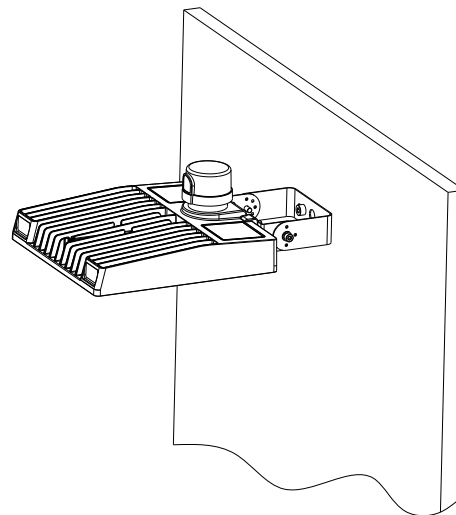
Trunnion bracket:

1. Confirm installation location according to installation hole.
2. Connect exposed lamp wire to power wire;
3. Fix lamp: fix the lamp in installation position;
4. Adjust lighting angle of lamp ($-90^{\circ} \sim 90^{\circ}$);
5. Fix and adjust angle screw, installation finish.



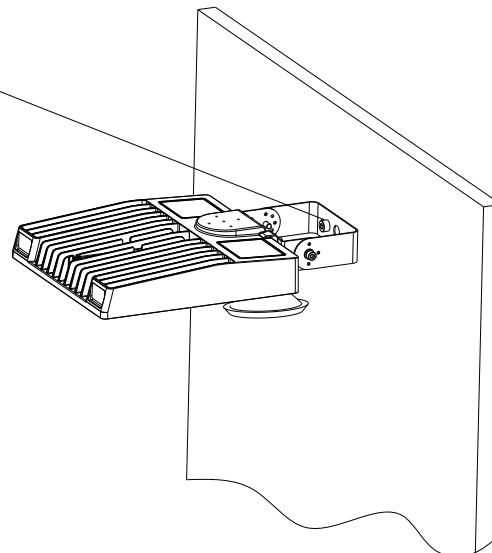
Photocell Series

1. Insert the light sensor into socket with correct holes, then clockwise rotate it into place.
2. Confirm installation location according to installation hole.
3. Connect exposed lamp wire to power wire;
4. Fix lamp: fix the lamp in installation position;
5. Adjust lighting angle of lamp ($-90^{\circ} \sim 90^{\circ}$);
6. Fix and adjust angle screw, installation finish.



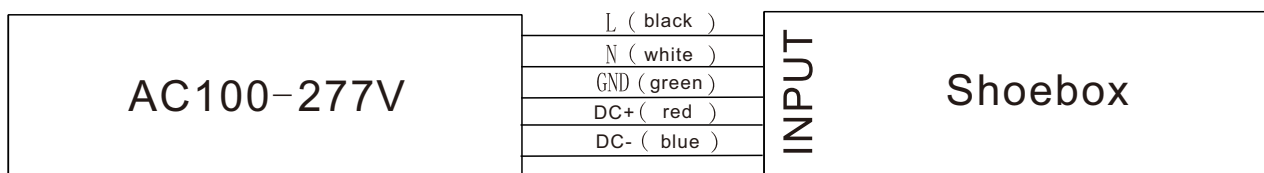
Motion Sensor series

1. Confirm installation location according to installation hole.
2. Connect exposed lamp wire to power wire;
3. Fix lamp: fix the lamp in installation position;
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5. Insert the Motion sensor into socket with correct holes, then clockwise rotate it into place.
6. Fix and adjust angle screw, installation finish.

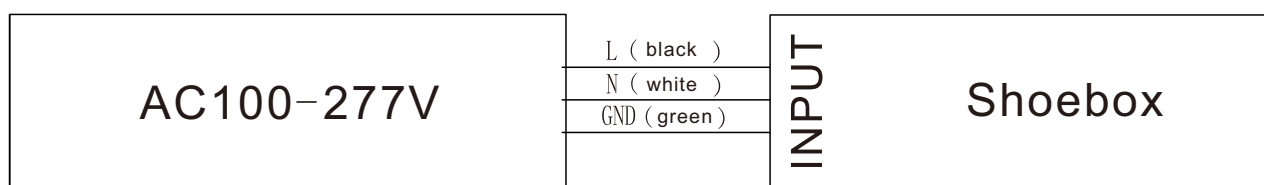


Wiring diagram:

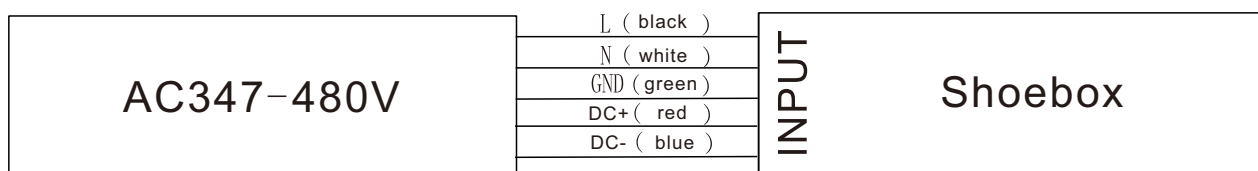
Normal series an Photocell Series:



Motion Sensor series:



High-voltage series :



Packing information:

Power	100W	150W	190W	240W	300W
Net weight	5.1kg	7.4kg	7.5kg	8.5kg	11kg
Gross weight	5.9kg	8.4kg	8.5kg	9.7kg	12.5kg
Packing dimension	500*340*135mm	580*375*155mm	580*375*155mm	680*375*155mm	795*390*195mm
Packing qty.	1PCS/carton	1PCS/carton	1PCS/carton	1PCS/carton	1PCS/carton



Installation requirement:

1. Power off before installation; and the lamp must be installed by professional electrician;
2. Confirm installation hole and location;
3. Connect light wire to power wire, seal the joint with insulation;
4. Make sure the installation material can endure the lamp weight; and install the lamp in the operation location.

Notice :

1. Please first read the product specification carefully to make sure the using environment conform to specification, then it can be installation;
2. Please confirm input voltage, frequency before installation;
3. This product must be installed by electrician;
4. If there is any damage to the power wire or shell of the product, it should be taken as defective product and do not use it;
5. Dangerous high voltage, non-professionals are not allowed to maintain the product;
6. If external soft cable or soft wire of the light is damaged, it should be replaced by manufacturer or service agent or personnel with similar qualification to avoid danger.
7. Please pull the power cord to the wiring compartment at the bottom of mounting pole and make the branch connection, the input wire connected at the bottom of the pole. (the length of driver input wire meet the demand of customer's).