BBIER ®

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Project Name_____
Product Code_____
SKU No. _____
Memo._____
Data _____

LED SHOEBOX SERIES LIGHT

POWER / COLOUR ALL IN ONE

NEW TECHNOLOGY

**Adjustable power
Adjustable color temperature**

SAA APPROVALS®   ISO 9001 QUALITY ASSURED FIRM SGS   ETL Intertek c...us LISTED   DLC QPL LISTED

LIMITED WARRANTY 5 YEAR   CE COMPLIANCE   RoHS COMPLIANCE   WET LOCATION   MOTION SENSOR
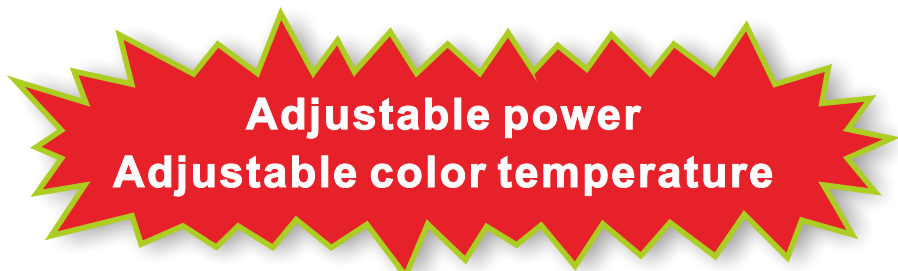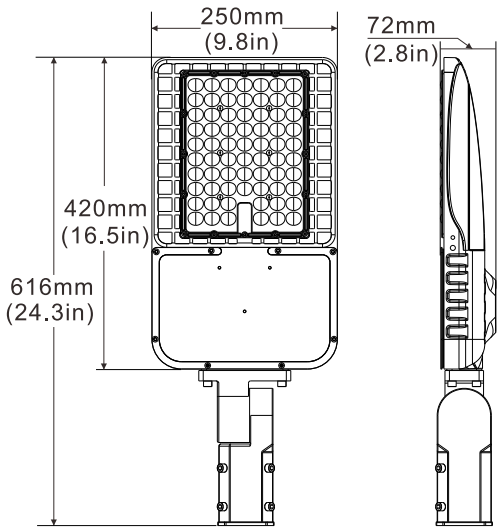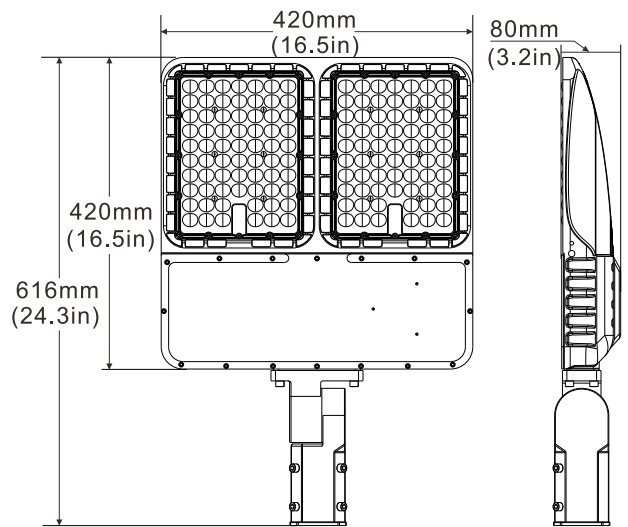
PRODUCT DESCRIPTION

The shoebox series has the high-performance solution for the most demanding applications within a unique design. With different precision refractive optical lens and an easy -install design,it can be used in many applications such as area,street,architectural decorative,industrial,stadium, port wharf,roadway,etc.

FEATURE

1. California New Policy request Shoebox have to need 3 Step Dimming with Sensor in 2017.
2. IP67 Rated Enclosure
3. Superior Low-glare Illumination
4. Optional with Photocell or Microwave sensor
5. Optional Black,White,Bronze,or Silver color

250mm (9.8in)   72mm (2.8in)
420mm (16.5in)
616mm (24.3in)

420mm (16.5in)   80mm (3.2in)
420mm (16.5in)
616mm (24.3in)

50W/100W/150W   **200W/240W/300W**

Ordering Information

Example:BB-LD-100W-S-A-DW-DR1-SF

Area Series	Watts	Version	Control	CCT	Voltage	Bracket	Color
BB-LD	50W 100W 150W 200W 240W 300W	S	**A -** No Sensor **B -** Photocell Sensor **C -** Motion Sensor **D -** Adjustable power and CCT module	**SW-**2700K **WW-**3000K **NW-**4100K **DW-**5000K **CW-**5700K **SCW-**6500K	**DR1-**100-277VAC **DR2-**100-277VAC **DR3-A/B/AB-**100-277VAC **DR4-A/B/AB-**100-277VAC **DR5-A/B/AB-**200-480VAC DR6-A/AB-200-480VAC	**SF-** Slip Fitter **AM-** Arm Mount **TR-** Trunnion	Bronze(default) White optional Black optional Silver optional

PERFORMANCE DATA (STANDARD)

Power	50W	100W	150W	200W	240W	300W
Model	BB-LD-50W-S-X-YY-DR6-V-UU	BB-LD-100W-S-X-YY-DRZ-V-UU	BB-LD-150W-S-X-YY-DRZ-V-UU	BB-LD-200W-S-X-YY-DRZ-V-UU	BB-LD-240W-S-X-YY-DRZ-V-UU	BB-LD-300W-S-X-YY-DRZ-V-UU
Luminous Flux	6500lm	13000lm	19500lm	26000lm	31200lm	41600lm
Replacement	HPS 150W	HPS 300W	HPS 400W	HPS 600W	HPS 700W	HPS 1000W
Model Description	"X" can be A,B,or C,represents the function,A=no photocell sensor , B=photocell sensor , C=motion sensor;"YY" stands for CCT,YY can be SCW,CW,DW,NW,WW or SW,SCW=6500K,CW=5700K,DW=5000K,NW=4100K,WW=3000K,SW=2700K;"DRZ-V" stands for driver model, it can be DR1,DR2,DR3,DR3-A,DR3-B,DR3-AB,DR4,DR4-A,DR4-B,DR4-AB,DR5,DR5-A, DR5-B,DR5-AB,DR6-A,DR6-AB,DR1=DM Series Driver model,DR2=Shenzhen Sosen Electronics Co Ltd Driver model,DR3-A/B/AB=MEAN WELL HLG series Driver model(100-277V), DR4-A/B/AB=MEAN WELL ELG series Driver model(100-277V),DR5-A/B/AB=Series Driver model(200-480V),DR6-A/AB=MEAN WELL XLG series Driver model (100-277V)."UU" stands for bracket,UU can be SF,AM or TR.SF=Slip Fitter,AM=Arm Mount,TR=Trunnion. For example:BB-LD-100W-S-A-CW-DR1-SF.					
Light Source	SMD LED					
Luminous Efficacy	130lm/w					
Operation Temp.	-40 to +45℃					
CCT	2700K SW / 3000K WW / 4100K NW / 5000K DW / 5700K CW / 6500K SCW					
CRI	>80					
Color	Black , White , Bronze or Silver,optional.					
Life Span	50,000 hours					
Voltage	100-277VAC/50-60Hz 200-480VAC/50-60Hz available					
With sensor	No Sensor,Motion Sensor,Photocell Sensor,optional , Adjustable power and CCT module.					
Microwave sensor default setting	Someone brightness 100%, microwave sensitivity 75%, hold time 5 minutes, start illumination 50LUX, continuous brightness 30%, the duration of 30 minutes.					
Beam Angle	40° T2. T3.T4.T5					
PF	>0.95					
IP	65					
Warranty	5Years					

PERFORMANCE DATA (ADJUSTABLE POWER AND CCT ALL IN ONE)

Power	30W/50W/75W three in one	50W/75W/100W three in one	75W/100W/120W three in one	100W/150W/200W three in one	150W/200W/240W three in one
Size	616x250x72mm	616x250x72mm	616x250x72mm	616x420x80mm	616x420x80mm
Luminous Flux	30W=3900lm 50W=6500lm 75W=9750lm	50W=6500lm 75W=9750lm 100W=13000lm	75W=9750lm 100W=13000lm 120W=13800lm	100W=13000lm 150W=19500lm 200W=23000lm	150W=15600lm 200W=23000lm 240W=27600lm
Replacement	HPS 150W	HPS 300W	HPS 400W	HPS 600W	HPS 800W
Model	BB-LD-MCT-S				
Light Source	SMD LED				
Luminous Efficacy	130lm/w ,When the light power is turned on to the maximum, the light effect will be reduced to 115 lm/w				
Color	Black ,White Bronze or Silver , otional.				
Cover	Frosted cover				
Operation Temp.	-40 to +45℃				
CCT	3000K/4000K/5000K All in one, Options:4000K/5000K/5700K				
CRI	80+				
Life Span	50,000 hours at 25℃				
Voltage	100-277VAC/50-60HZ				
Driver	UL listed power supply				
Dimming	No				
With Sensor	Daily sensor				
Beam Angle	40° T2. T3.T4.T5				
IP	67				
PF	>0.95				
Warranty	5 Years				

APPLICATION

- Area lighting/Street lighting
- Industrial lighting
- Stadium lighting
- Port wharf lighting
- Roadway lighting

Street scapes lighting

Roadway lighting

Roadway lighting

LUMINOUS INTENSITY DISTRIBUTION

Light distribution curve and illuminance chart

Luminous Diagram

Type II	Type III	Type IV	Type V	40°
Two Driveway Driveway Entrance Urban Main Roads	Three Driveway Highway Parking Lot/Area	Four Driveway Parking Lot/Area	Square Parking Lot/Area	Two Driveway
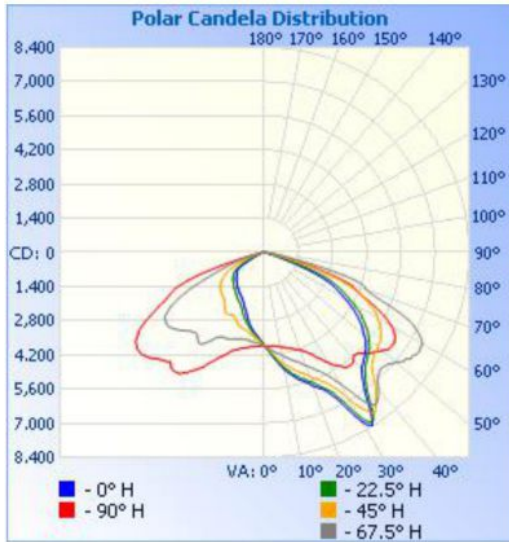
MICROWAVE SENSOR

BR1816

Microwave sensor
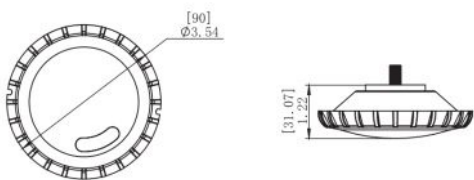
RC-100

wireless handheld Remote control

Power supply	120-277VAC
Maximum load @-104°F~158°F (-40℃~70℃)	Resistive/Tungsten-600W@120V Ballast Electronic(LED)-800/1200VA@120/277V
HF System	5.8GHz CW
Dim control output	0-10V,max.25mA sinking current
Detection radius/angle	Max meters/360°
Mounting height	Max 40ft
Remote range	40ft.(15m)indoor,no backlight
Humidty	Max.95% RH
Temperature	-104°F~158°F(-40℃~70℃)

ON/OFF	Permanent on permanent off mode	DISP	DISPLAY Current Settings
SEND	The selected parameters go to SEND	AUTO	Back to previous settings before on/off model
RESET	100% 5m ☼ 100% 20% +∞	TEST 2S	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	OK	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 lastest surrounding lux value overites pervious lux value learned		
MODE1 MODE2 MODE3	To Save these New Settings parameters as Mode 1 Mode 2 Mode 3		
BRIGHTNESS	Adjust the brightness of the delay period 70%/80%/90%/100%	LUX	Set the sensor built-in light perception,⊗on behalf of the built-in light value does not work, as long as the detection of movement, the light will automatically light.Eyes represent the light perception of the current environment as a built-in light perception,When the ambient light is less than or equal to the built-in light perception (👁/10LUX/30LUX/50LUX), the motion light is automatically turned on, otherwise it will not light.
SENSITIVITY	Adjust the detection range 20%/50%/75%/100%		
HOLD TIME	Adjust the delay time 10S/1M/5M/10M/15M		
STAND-BY TIME	Adjust the waiting time +∞/1M/30M/60M		
STAND-BY DIM	Adjust the brightness of the waiting period 0/10%/20%/30%.Note: If 0 is selected, the sensor is switched and not dimmed		

## ADJUSTABLE POWER AND COLOR TEMPERATURE MODULE

Adjustable power and
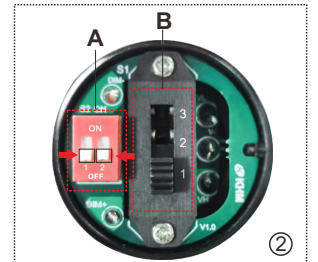color temperature module

Photocell Sensor

Adjustable power,Adjustable color temperature controller instructions (manual operation explain):

○ Pull out the controller cover firmly upwards. See picture 1

○ Adjust the power in zone A and adjust the color temperature in zone B. See picture 2.

Internal structure
of controller

①
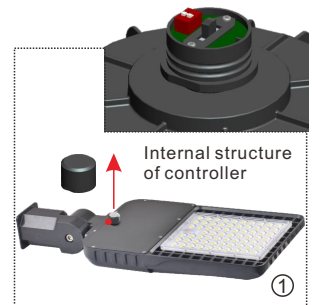
Comparison table for adjusting the power (zone A):

| 30W/50W/75W	50W/75W/100W	75W/100W/120W	100W/150W/200W	150W/200W/240W
75W: Pull A1 to OFF. Pull A2 to OFF. picture 2.	**100W**: Pull A1 to OFF. Pull A2 to OFF. picture 2.	**120W**: Pull A1 to OFF. Pull A2 to OFF. picture 2.	**200W**: Pull A1 to OFF. Pull A2 to OFF. picture 2.	**240W**: Pull A1 to OFF. Pull A2 to OFF. picture 2.
50W: Pull A1 to OFF. Pull A2 to ON. picture3.	**75W**: Pull A1 to OFF. Pull A2 to ON. picture3.	**100W**: Pull A1 to OFF. Pull A2 to ON. picture3.	**150W**: Pull A1 to OFF. Pull A2 to ON. picture3.	**200W**: Pull A1 to OFF. Pull A2 to ON. picture3.
30W: Pull A1 to ON. Pull A2 to OFF. picture4.	**50W**: Pull A1 to ON. Pull A2 to OFF. picture4.	**75W**: Pull A1 to ON. Pull A2 to OFF. picture4.	**100W**: Pull A1 to ON. Pull A2 to OFF. picture4.	**150W**: Pull A1 to ON. Pull A2 to OFF. picture4.

A B

②

Instructions for adjusting the color temperature (zone B) .Picture2

○ 3 gears adjustment: B3=3000K, B2=4000K, B1=5000K.
The factory default is 5000K (B1). When adjusting the color temperature, just pull the button to the corresponding position.

③
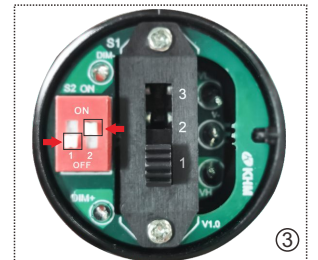
How to use photocell sensor:

○ Open the photocell sensor function: remove the photocell sensor cover.

○ Close the photocell sensor: close the photocell sensor cover.

④

6
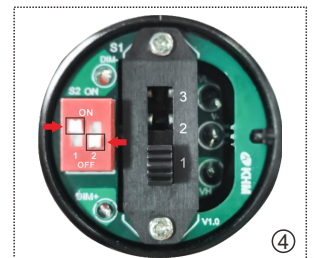
Features

* Provides line voltage On/Off switching and 0-10VDC dimming control.
* Works with ballasts or LED drivers.
* High and low modes fully adjustable from 0 to 10V.
* Time delay from 5 to 30 minutes.
* Optional cut off delay.
* Adjustable ramp up and fade down times.
* High inrush stability zero crossing circuitry for reliable,long-life speration latching relayis durable for all load.
* Optional daylighting setpoints feature automatic calibration,or permit manual adjustment.
* Polycarbonate,flame retardant,UV resistant,impact resistant.
* UL773A and FCC.

Dimming Function

3-Step dimming function

The product can achieve 3-stage dimming control, to choose from: Brightness 100% --> Dimming Brightness (10% 20% 30% optional) --> Off;

Provides two delay times:Full Bright Delay Time and Half Brightness Time;

Daylight Detection threshold and sensing distance adjustable.

If the set light value (10Lux, 30Lux, 50Lux) is less than the brightness of the ambient natural light, the lamp does not automatically enter the semi-bright state (10%, 20%, 30%).

When someone enters the room, the sensor senses the movement of the human body, the light will be 100% full, when the person leaves, the full light delay time after the light will enter half bright (10%, 20%, 30%), half light delay time Off.
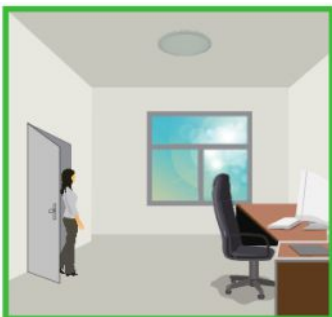
When someone enters the induction area during the day, when the light is sufficient, the lamp will not light.
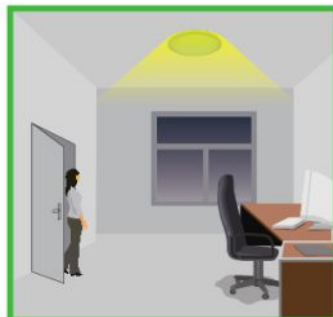
Evening to night when the lack of light, people into the lamp sensor area, the lights automatically open 100% brightness.
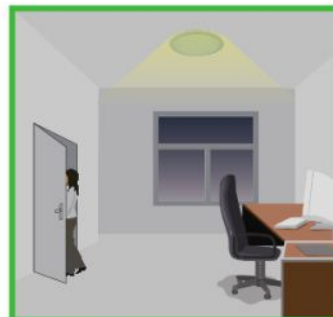
When the person leaves the sensing area, the brightness of the fixture will dim to 0/10% /20%/ 30% (optional) after the full delay time.

After the dimming delay time, if no one into the sensor area, the lights automatically shut down.

wireless handheld configuration tool

2-way IR communication for
data upload,download,
confirmation and storage.

Easy-to-read Display

Easy-to-use operation pad

Feature Of Wireless Handheld

* Establishes high and low mode light levels for 0-10V control.

* Sets time delay,cut off time and sensitivity for motion detection.

* Enables light level settings for either hold off control or daylighting control.

* Initiates automatic setpoint configuration.

* Allows ramp up and fade down rate adjustments.

* Locks sensor settings to prevent unauthorized changes.

* This product meets the materials restrictions of ROHS.

IR Coverage Of wireless handheld

15'-32'   15'-32'
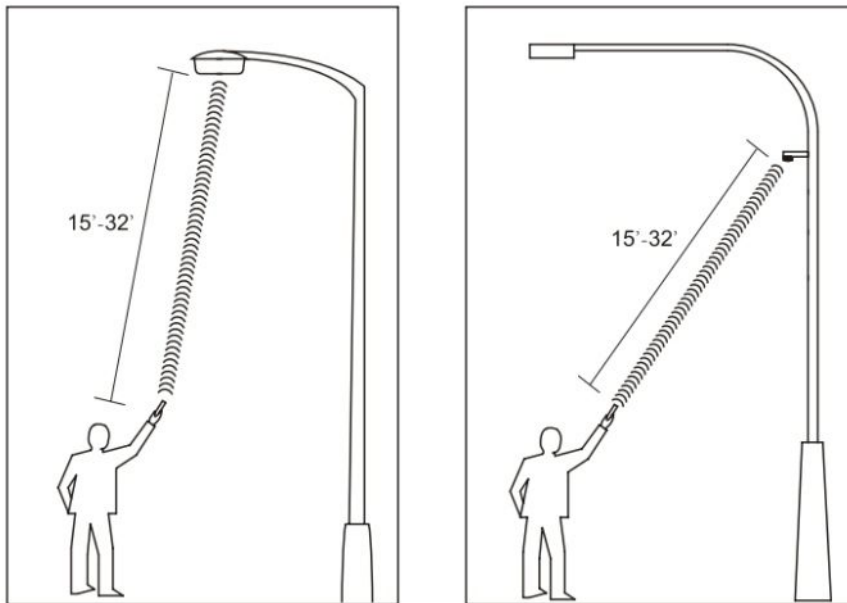
*Distance may vary depending on the lighting environment

Catalog No.	Color	Description
B R1816	White	360° lens,maximum coverage 60' diameter from 8'-40' height
R C-100	Black	Remote control Battery:AAAx2

8

INSTALLATION

Warnning:If the lamp pole has existing ballast or capacitor,please take them off.Because the shoebox street lamp just connecting to AC(alternating current) input it will work.

two screws

hex wrench

Φ60mm
(2. 36in)

Suggestions of the bracket's diameter:
Φ55mm
(2. 17in)
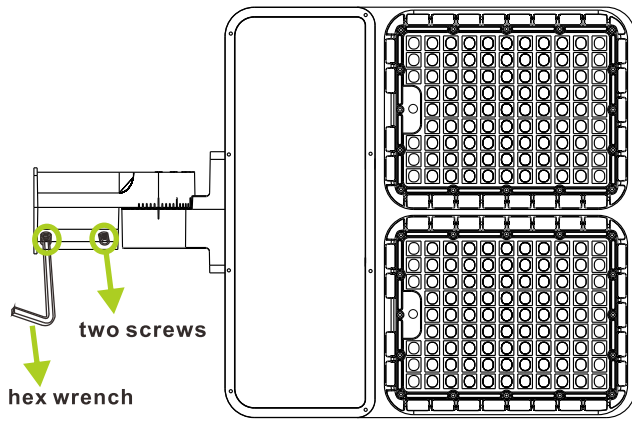
1.As shown above,we should make the two screws loose with a hex wrench.
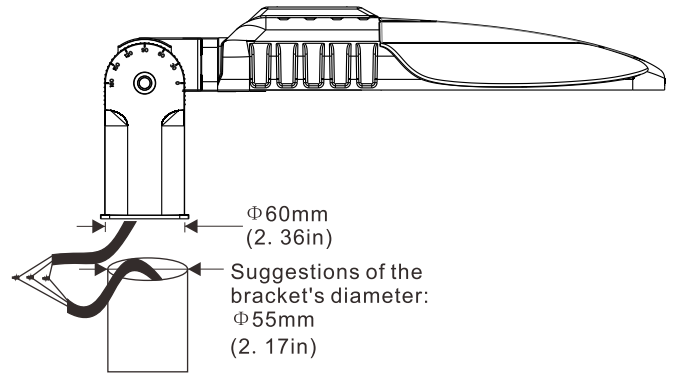
2. Wiring right and set the lamp into the bracket by the hole.

hex wrench

hex wrench
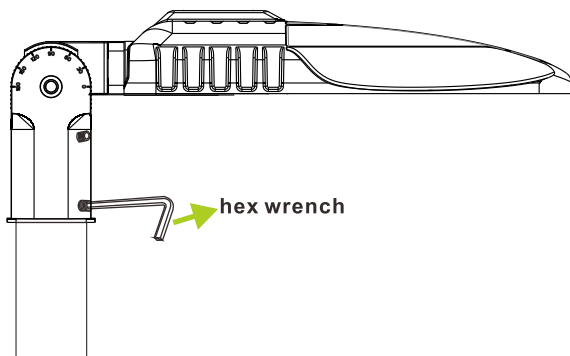
Unscrew this screw

3.We should make the two screws fixed with a hex wrench.
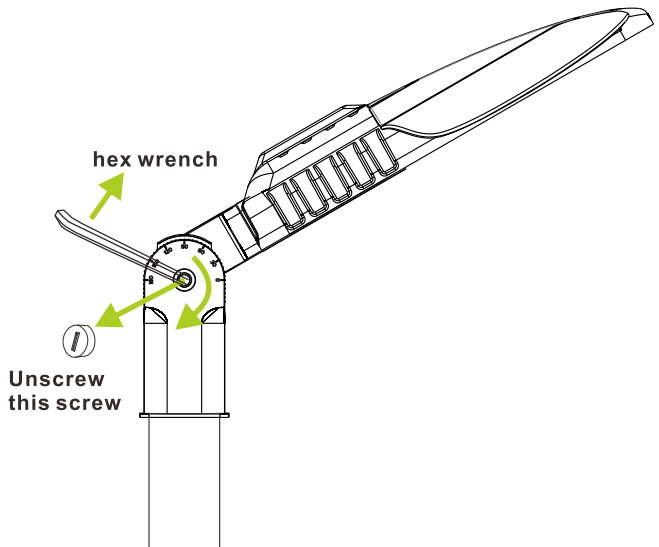
4. First,unscrew the screw, and then we can adjust the angle of the lamp body we want with a hex wrench.

You can choose the below styles of bracket to install.

1 light adjustable option   2 light adjustable option   3 light adjustable option   4 light adjustable option

9

ACCESSORIES

Optional Accessories

Unit: in(mm)
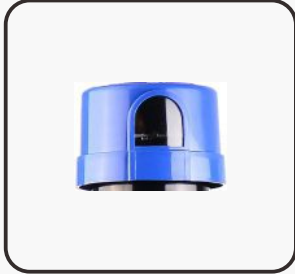
Photoelectric Control

Motion Sensor

Remote Control

Slip Fitter(2.5" round pole)

Arm mount
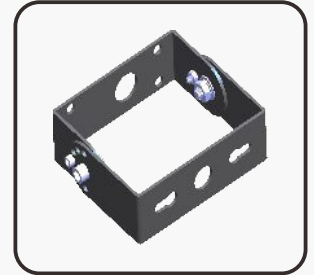
Trunnion-A
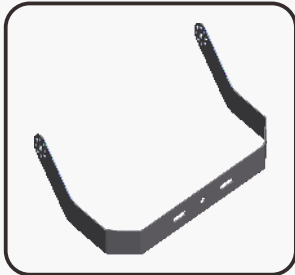
Trunnion-B

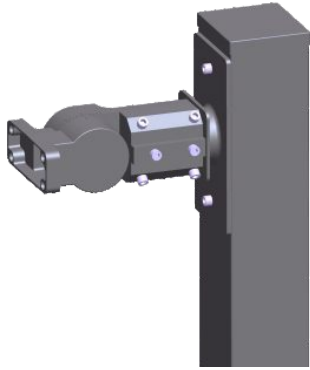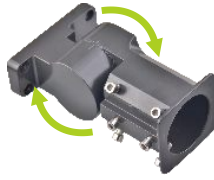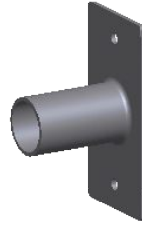Trunnion-C
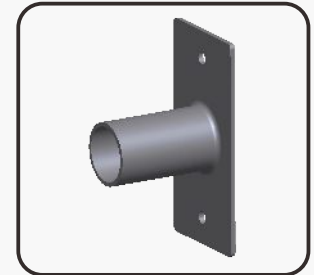
Adapter bracket

Dimension

88mm
(3.5in)
63mm
(2.5in)
83mm
(3.3in)
83mm
(3.3in)
195.5mm
(7.7in)
124mm
(4.9in)

Slip Fitter

190mm
(7.5in)
50mm
(2.0in)
152.5mm
(6.0in)
124mm
(4.9in)
152.5mm
(6.0in)
77mm
(3.0in)

Arm mount

48mm
(1.9in)
127mm
(5.0in)
148mm
(5.8in)

Trunnion-A

426mm
(16.8in)
43mm
(1.7in)
265mm
(10.4in)
420mm
(16.5in)
114mm
(4.5in)

Trunnion-B

316mm
(12.4in)
462mm
(18.1in)
195.5mm
(7.7in)
50/100/150W

486mm
(19.1in)
454mm
(17.8in)
195.5mm
(7.7in)
200/240/300W

Trunnion-C

203mm
(8.0in)
107mm
(4.2in)
102mm
(4.0in)
60mm
(2.4in)

Adapter bracket

10

Slip Fitter

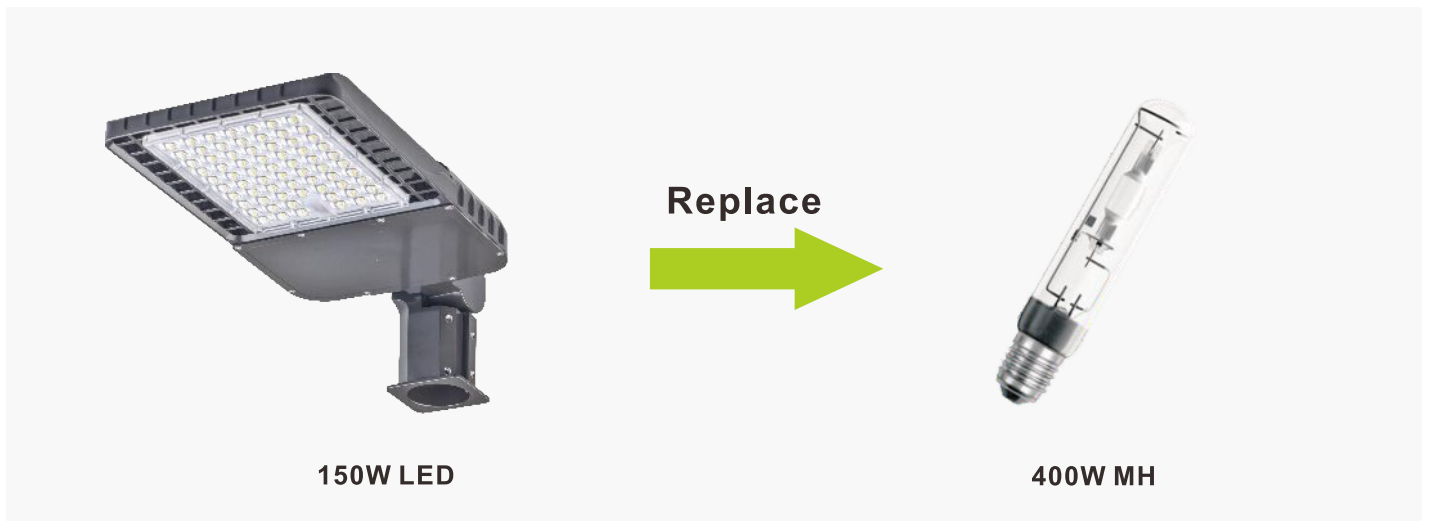| Square pole installation | Rotatable | Adapter bracket | Arm mount |

Arm mount
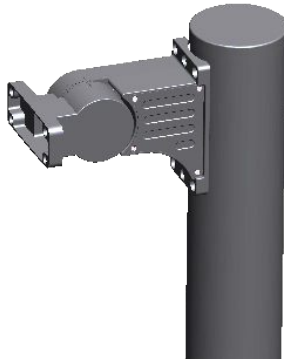
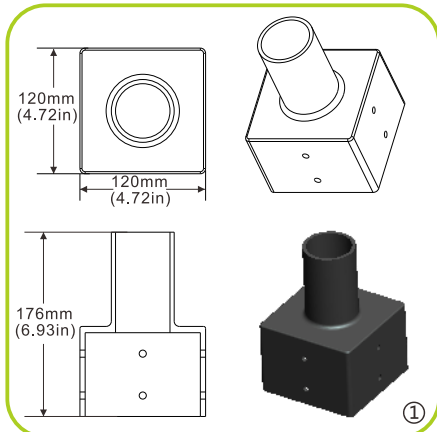| Rotatable | Round pole installation | Square pole installation |
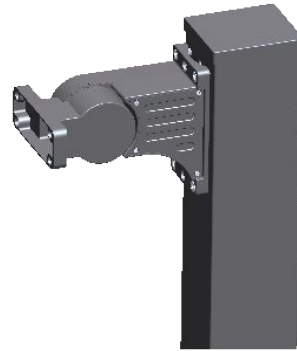
PROJECTS

By using our 150W LED Shoebox Light to replace 400W Metal Halide bulb for shoebox fixtures,the customer is now able to save a lot per month from his electric bill.
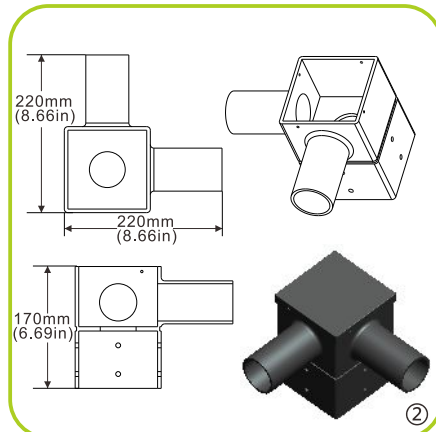

Replace

150W LED   **400W MH**

Notes:

1. Don't take the LED lamp apart.

2. The LED lamp must work under the right voltage according to the specification.
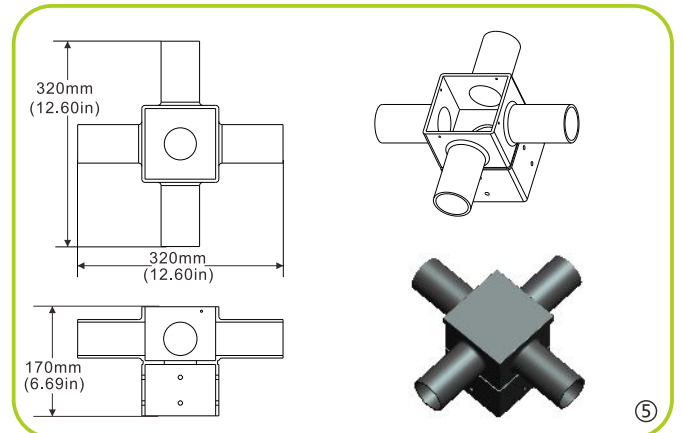
BBIER®

ADAPTER ACCESSORIES

120mm
(4.72in)

120mm
(4.72in)

176mm
(6.93in)

①

① **1 light square rod adapter**
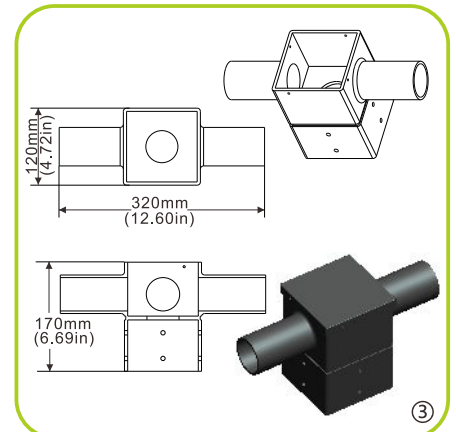
220mm
(8.66in)

220mm
(8.66in)

170mm
(6.69in)

②

② **2 adjacent lights square rod adapter**

120mm
(4.72in)

320mm
(12.60in)

170mm
(6.69in)

③

③ **2 opposite lights square rod adapter**

220mm
(8.66in)

320mm
(12.60in)

170mm
(6.69in)

④

④ **3 lights square rod adapter**

320mm
(12.60in)

320mm
(12.60in)

170mm
(6.69in)

⑤

⑤ **4 lights square rod adapter**

120mm
(4.72in)

290mm
(11.42in)

270mm
(10.63in)

①
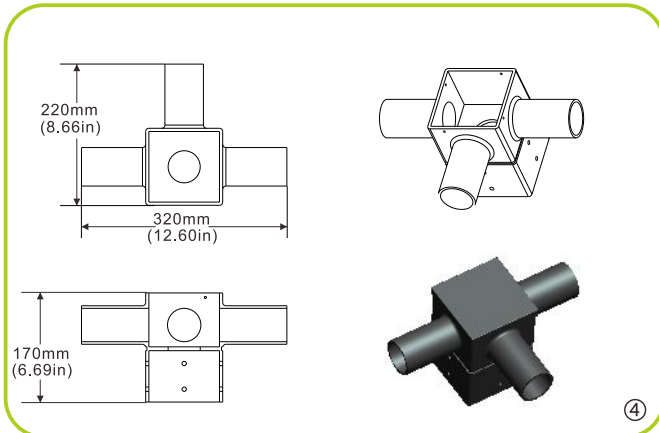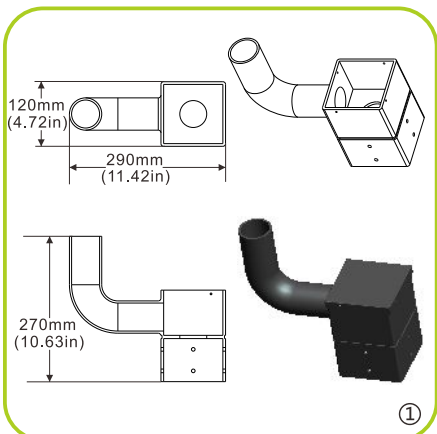
① **1 light square rod bending joint**
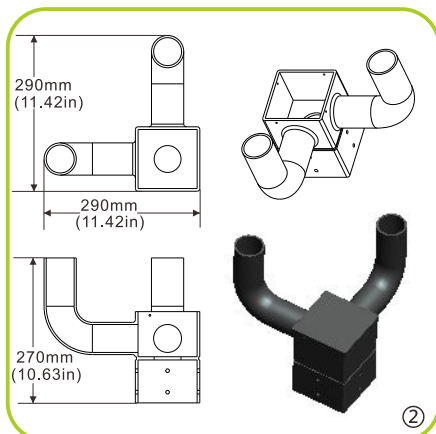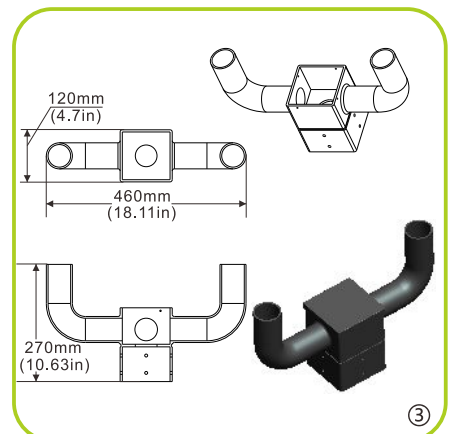
290mm
(11.42in)

290mm
(11.42in)

270mm
(10.63in)

②

② **2 adjacent lights square rod bending joint**

120mm
(4.7in)

460mm
(18.11in)

270mm
(10.63in)

③

③ **2 opposite lights square rod bending joint**

290mm
(11.42in)

460mm
(18.11in)

270mm
(10.63in)

④

④ **3 lights square rod bending joint**

460mm
(18.11in)

460mm
(18.11in)

270mm
(10.63in)

⑤

⑤ **4 lights square rod bending joint**

12

Φ125mm
(Φ4.92in)

125mm
(4.92in)

186mm
(7.32in)

①
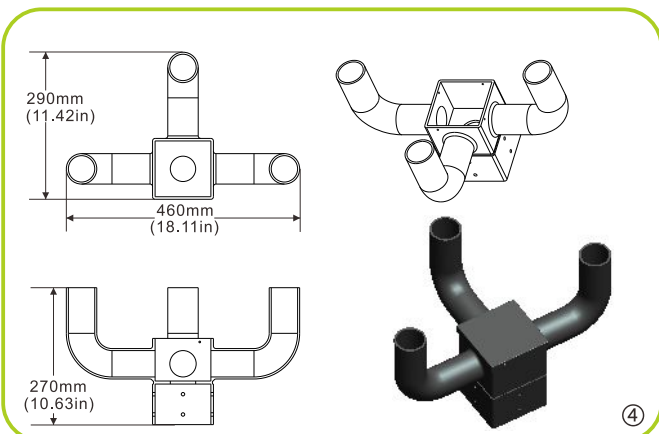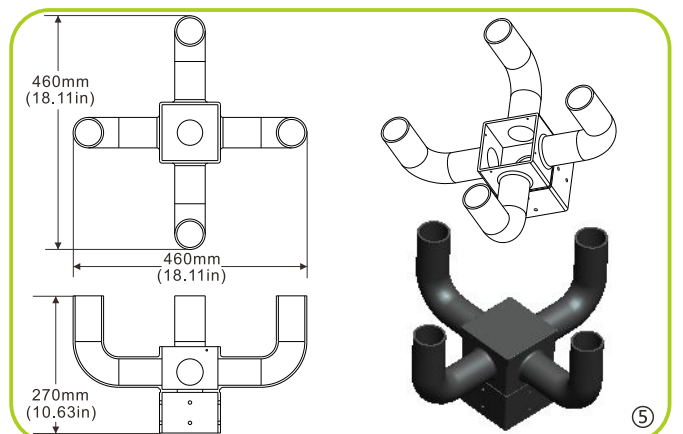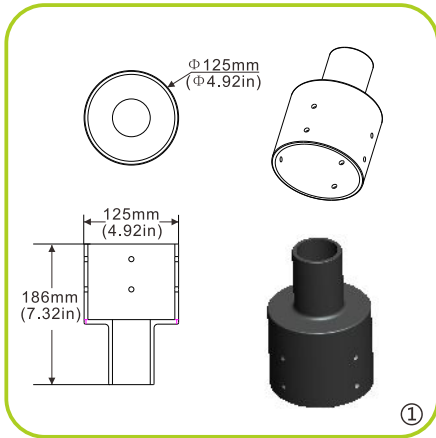
① **1 light round rod adapter**
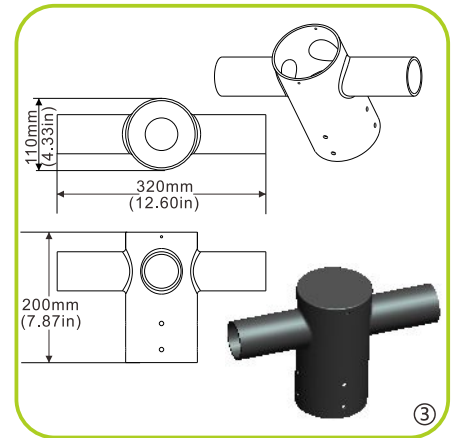
215mm
(8.46in)

215mm
(8.46in)

200mm
(7.87in)

②

② **2 adjacent lights round rod adapter**

110mm
(4.33in)

320mm
(12.60in)

200mm
(7.87in)

③

③ **2 opposite lights round rod adapter**

215mm
(8.46in)

320mm
(12.60in)

200mm
(7.87in)

④

④ **3 lights round rod adapter**

320mm
(12.60in)

320mm
(12.60in)

200mm
(7.87in)

⑤

⑤ **4 lights round rod adapter**

110mm
(4.33in)

285mm
(11.22in)

290mm
(11.42in)

①
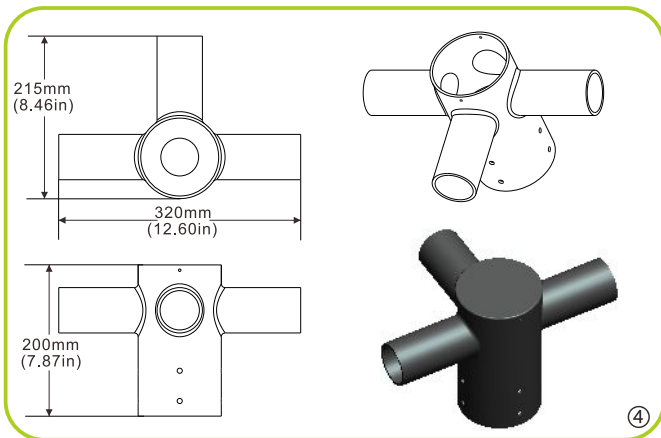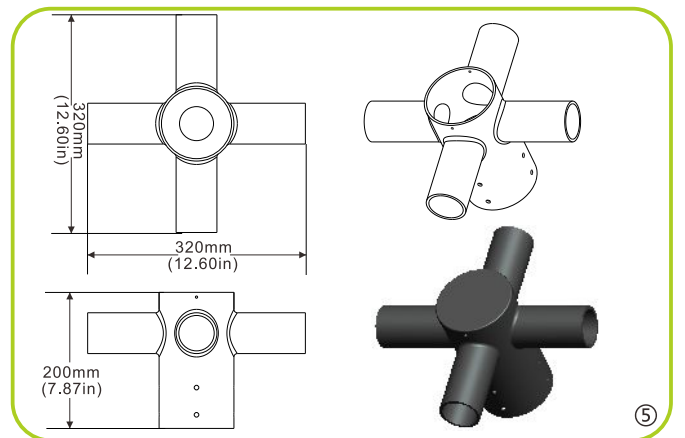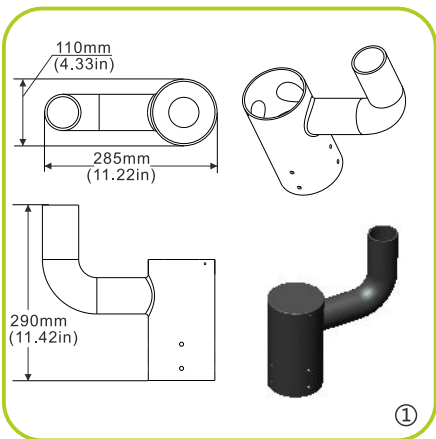
① **1 light round rod bending joint**
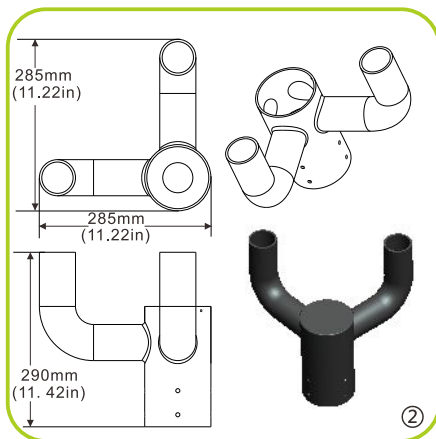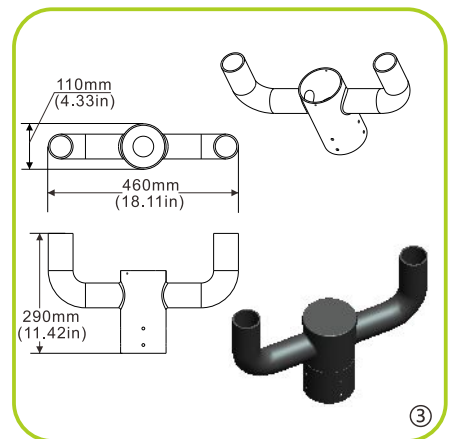
285mm
(11.22in)

285mm
(11.22in)

290mm
(11. 42in)

②

② **2 adjacent lights round rod bending joint**

110mm
(4.33in)

460mm
(18.11in)

290mm
(11.42in)

③

③ **2 opposite lights round rod bending joint**

285mm
(11.22in)

460mm
(18.11in)

290mm
(11.42in)

④

④ **3 lights round rod bending joint**

460mm
(18.11in)

460mm
(18.11in)

290mm
(11.42in)

⑤
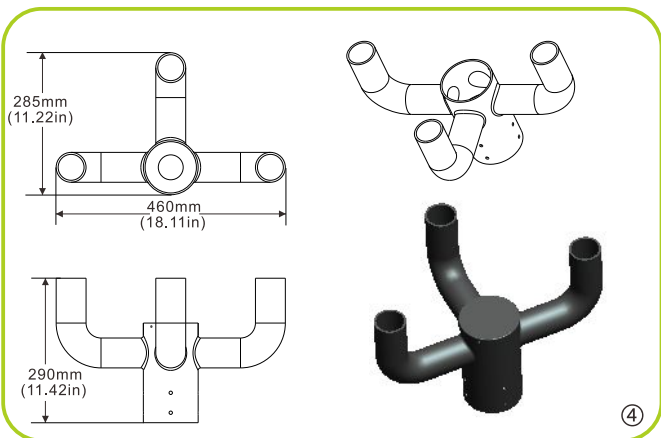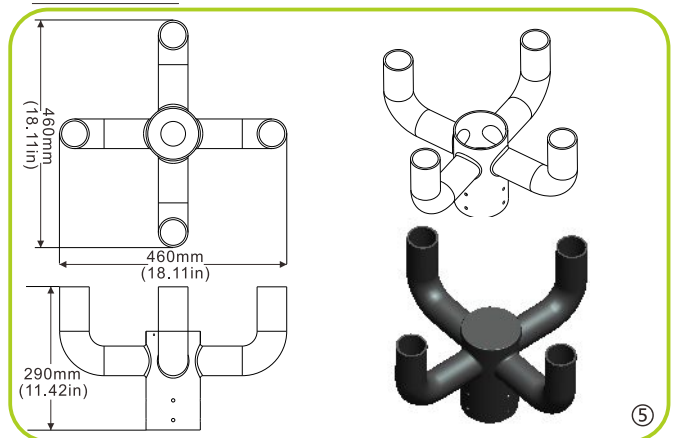
⑤ **4 lights round rod bending joint**

PACKING INFO

Packaging unit	Carton Size(mm) (L*W*H)	N.W	G.W	Volume weight
1pc/CTN (50-150W)	650*310*140mm	5.1kg	6.1kg	6.0kg
1pc/CTN (200-300W)	650*480*150mm	9.5kg	10.6kg	9.5kg