Solar Star Light - II

- Panels Power: 60W - 160W
- Lumen: 5000LM - 20000LM

Integrated Structure Design

ST2-30

ST2-40

ST2-60

ST2-80

ST2-100

ST2-160

Lamp post installation height recommendation diagram

10m

9m

8m

7m

6m

5m

ST2-30   ST2-40   ST2-60   ST2-80   ST2-160
                                                ST2-100

Advantage

Hollow shell design
Timely heat dissipation, extend lifetime

Indicator lights of battery
Display power of lamp obviously

Mono solar panel
22% efficiency

140pcs of high efficiency LED chips
Batwing lens with professional light
distribution

Anti-corrosion
Aluminum shell

OEM Logo

Built-in microwave radar sensors
Saving power, lighting time longer

Rotating holder, fit different
angle's installation

Hollow shell design

Timely heat dissipation, extend lifetime

Core Technologies

Patented appearance

Integrated design of solar panel, microcomputer controller, lithium battery and high-efficiency LED light source

Modular design

Modular design of battery and LED chip, transportation, installation and maintenance are more economical and simple

Proprietary control system

Road Smart self-developed solar controller can adjust different working modes freely, unique control system with more functions, stability is more stronger; Option of microwave induction function to save power and have longer lighting time

The fourth generation of intelligent power control

Upgraded intelligent power control function to regulater reasonable discharge power according to intelligent judgment of recent weather conditions, support longer lighting time and more rainy days

Intelligent high-efficiency lamp chips

140pcs of high efficiency LED chips, optimized brightness, the whole lighting effeciency is greater than 160lm/w

Intelligent charge and discharge management

Double protection of charging and discharging by software and hardware, and intelligent equalization technology, cycle charging and discharging more than 2000 times

Professional light distribution design

Equipped with patented lens to make the irradiation area more uniform

Indicator lights of battery capacity

Indicator lights of battery capacity display the power of the lamp obviously, which is convenient to observe the charging and discharging of the lamp

Rotating angle design

The illumination area and angle of light can be adjusted reasonably according to the width of the road

ST2-30/ST2-40

DEMO: No matter day or night, light "on" for 1 minute. Only for test use

OFF: Light "off", no matter day or night

L : At night, 100%-2hrs, 60%-3hrs, 20%-dawn

T : At night, 100%-3hr, 50%-3hrs, 30%-2hrs

M : At night, 100% light when people come, 20% standby after 20 seconds

U: At night, 100%-3hrs, 50%-3hrs(Highlight mode)

ST2-60/ST2-80/ST2-100/ST2-160

DEMO: No matter day or night, light "on" for 1 minute. Only for test use.

OFF: Light "off", no matter day or night.

L : At night, 100%-2hrs, 70%-2hrs, 30%-dawn.

T : At night, 100%-1hr, 70%-2hrs, 40%-3hrs.

M : At night, 50%-1hr, 100%-3hrs, 30%-dawn.

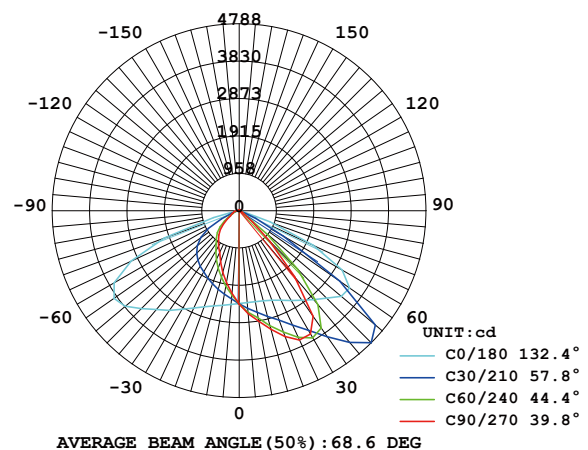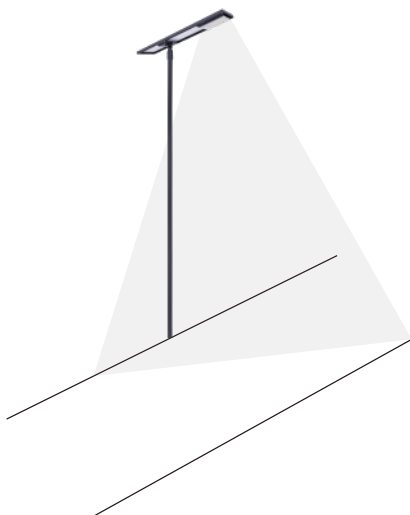**U:** 100%-1hr, 70%-3hrs, 50% light when people come, 20% standby after 20 seconds.

DEMO   OFF

L

T   U

M

**Intelligent
Solar Street Light**
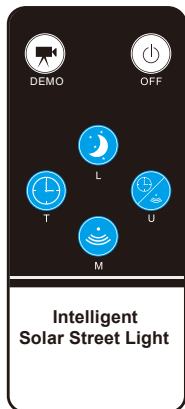
Note:
1. Default is L mode, once a certain mode was set successfully, it will be reserved until you change other modes with remote control.
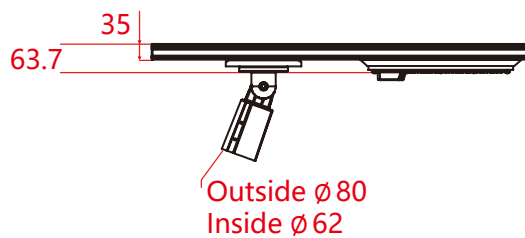2. U Highlight mode: Increase 30% on the original basis, mean 3H-130%, 3H-80%.

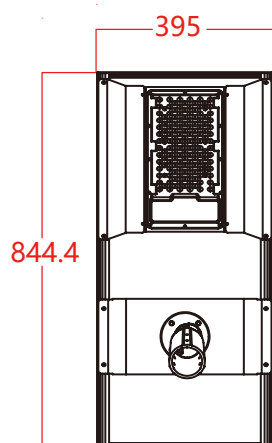# Light Distribution

Luminous intensity distribution curves.

-150 4788 150
3830
-120 2873 120
1915
958
-90 0 90

60 UNIT:cd

— C0/180 132.4°
— C30/210 57.8°
— C60/240 44.4°
— C90/270 39.8°

-60

-30 30

0

AVERAGE BEAM ANGLE(50%):68.6 DEG

Dimension

ST2-30

395

844.4

35
63.7

Outside ⌀ 80
Inside ⌀ 62

ST2-40

395

844.4

35
63.7

Outside ⌀ 80
Inside ⌀ 62

ST2-60

395

1244.4

35
63.7

Outside ⌀ 80
Inside ⌀ 62

ST2-80/100

395

1574

35
73

Outside ∅ 89
Inside ∅ 83

ST2-160

580

1559

35

75

Outside ∅ 89
Inside ∅ 83
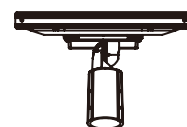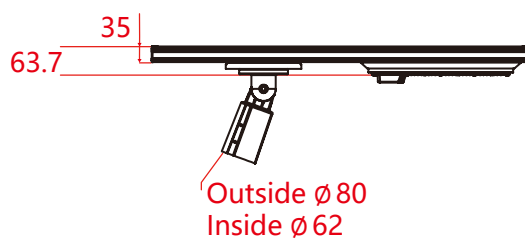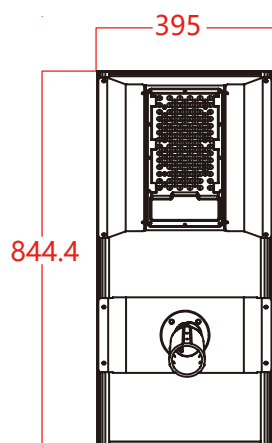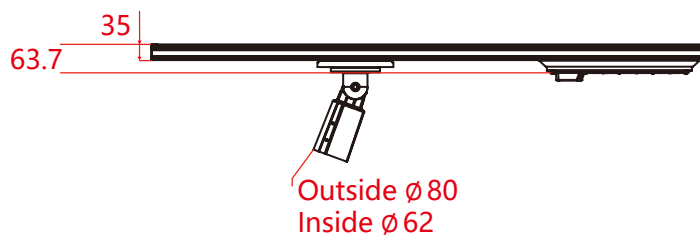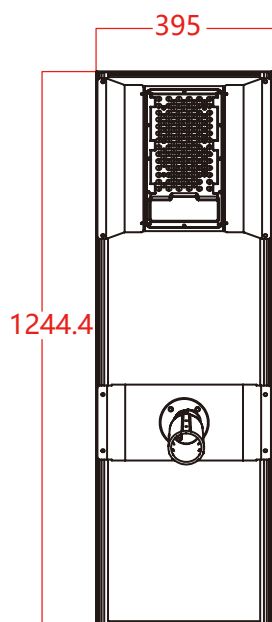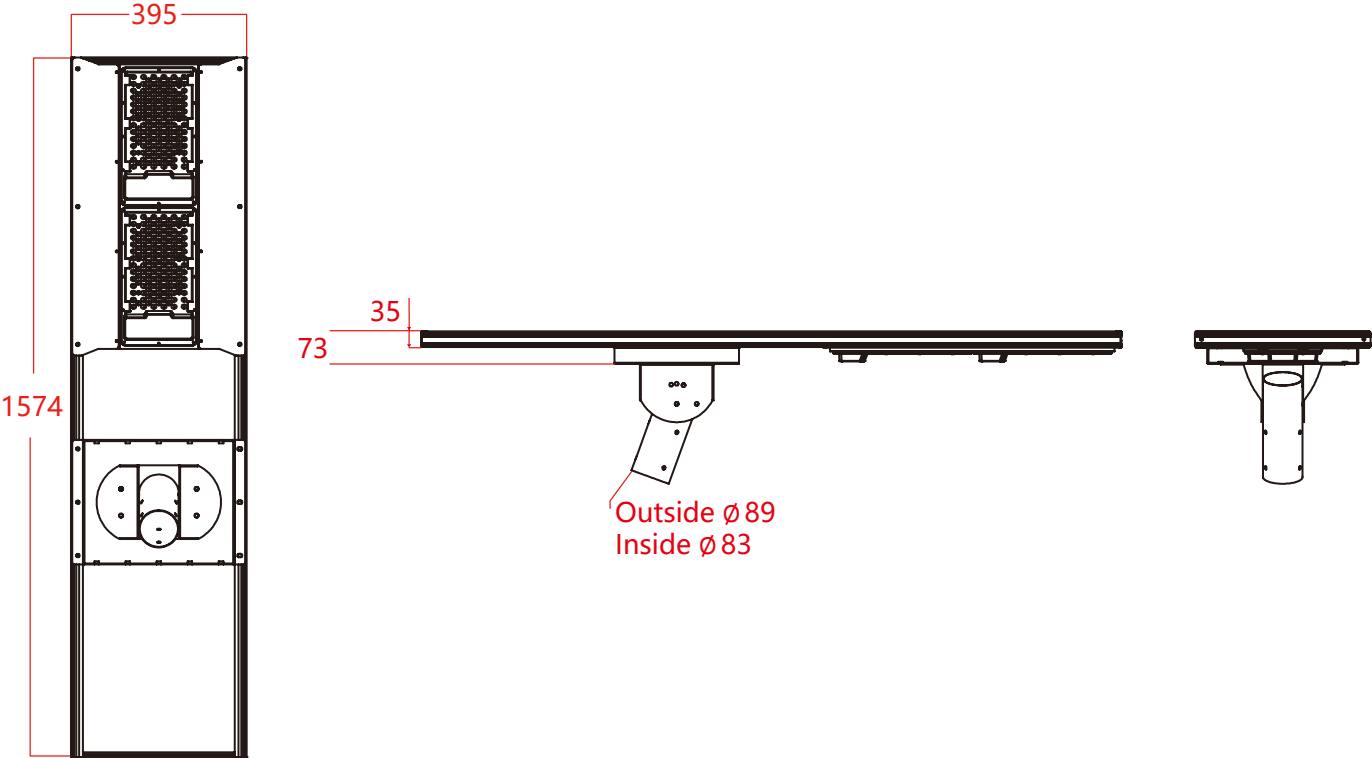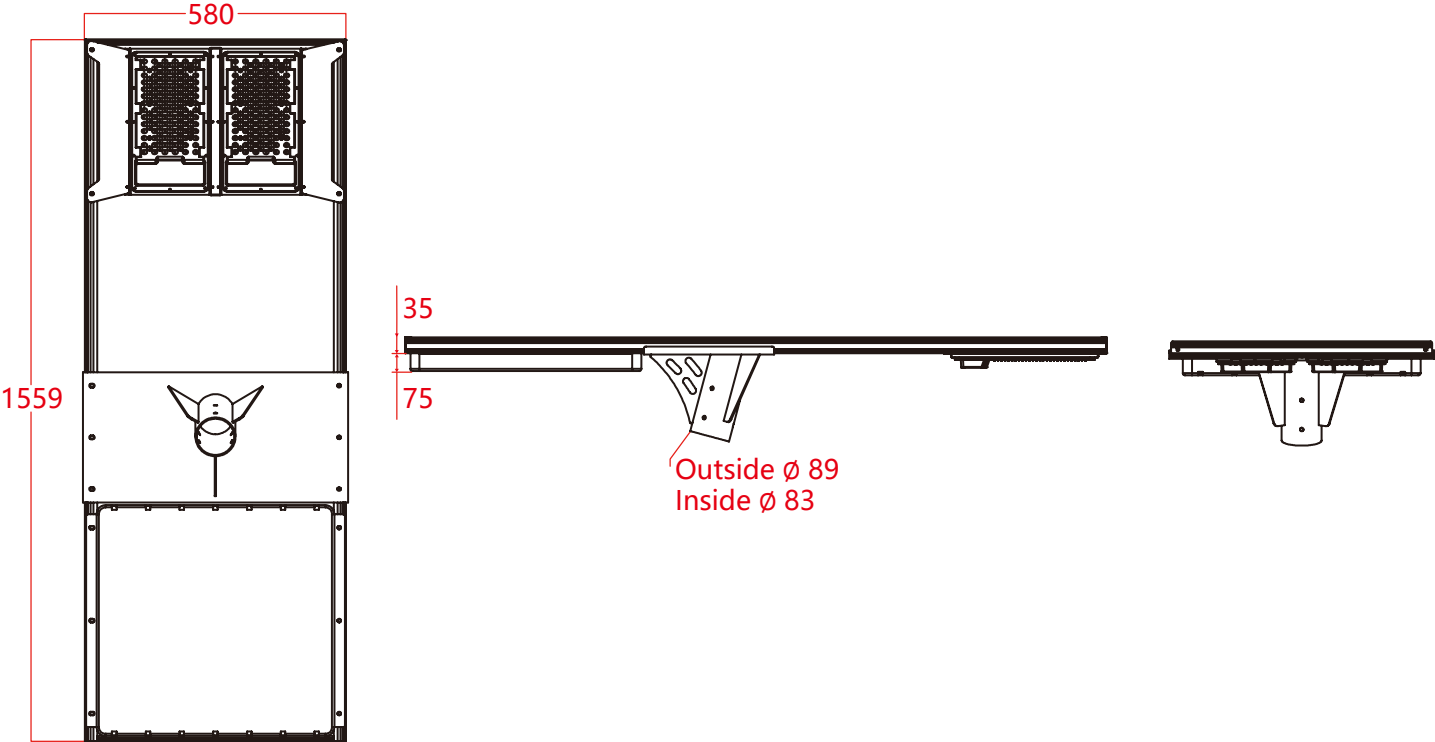
Parameter

Type	ST2-30	ST2-40	ST2-60	ST2-80	ST2-100	ST2-160
Lamp head						
LED chip	140pcs			280pcs		280pcs (5050)
Luminous flux	5000lm	6000lm	10000lm	13000lm	15000lm	20000lm
Beam angle	150*70°					
Lifespan	50000hrs					
IP Rating	IP65					
Working temperature	-20°C~60°C (Charge above 0°C)					
Color temperature	3000-7500K					
CRI	Ra≥70					
SOLAR PANEL						
Power	60W/5V	60W/5V	90W/18V	110W/18V	110W/18V	160W/18V
Voltage	5V		18V			
Solar cell efficiency	19%-22%					
Material	Monocrystalline silicon					
BATTERY						
Capacity	144WH/45AH	240WH/75AH	384WH/120AH	576WH/180AH	640WH/200AH	960WH/300AH
Lighting time(full charged)	5-7 rainy days					
Lithium battery	LiFePO4					
INSTALLATION						
Top diameter of pole	60 mm	60 mm	60 mm	76 mm	76 mm	76 mm
Mounting height	5-6M	6-7M	6-8M	8-10M	8-10M	10-12M
Installation spacing	20-40M					

Packing

Type		Qty/ctn	Box Size(L*W*H)	Gross Weight
ST2-30	Lamp body+panel	2sets/ctn	1060*420*235mm	18.92kg
ST2-40	Lamp body+panel	2sets/ctn	1060*420*235mm	22.72kg
ST2-60	Lamp body+Panel	2sets/ctn	1300*455*200mm	28.18kg
ST2-80/100	Lamp body+panel	1set/ctn	1622*637*135mm	20.56kg
ST2-160	Lamp body+panel	1set/ctn	1617*635*135mm	27.52kg

The packaging as shown below is for reference only, the actual packaging is subject to the specific product.

- - - - - - - - - - - - - - - - 2sets/ctn(ST2-30) - - - - - - - - - - - - - - - -

2set/ctn(ST2-60)

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