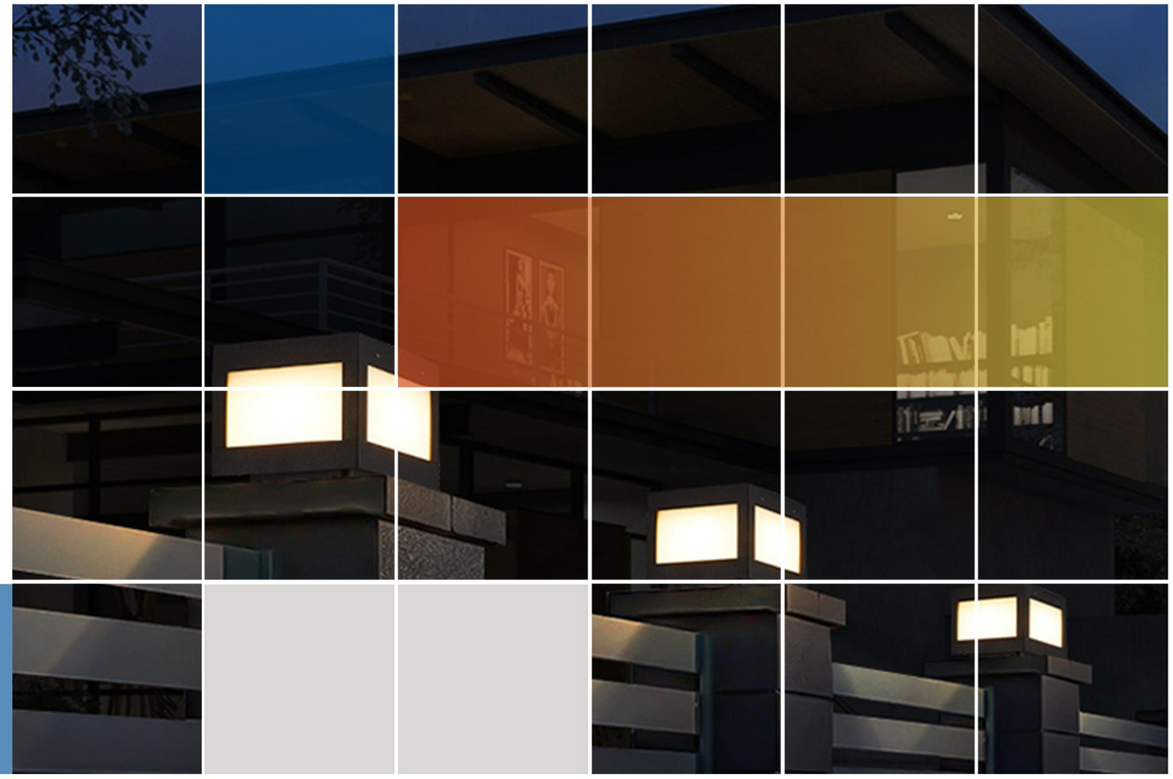
FOCUS ON OUTDOOR SOLAR GARDEN LIGHT

SOLAR ENERGY



FANGJIAN SOLAR FENCE LIGHT SPECIFICATION

OUTDOOR SOLAR LIGHT

1、Product Introduction

This product is our private model product. The material is die-cast aluminium + PMMA, intelligent light control, no need to manual. Automatic charging during the day, automatic light at night and other advantages. Bringing users quality assurance and convenience at the same time.

2、 Products Parameters

Model:	TZ-3645S
Material:	Die-cast aluminium + PMMA
Size:	Φ155*155*160mm
Battery capacity:	18650 Li-ion battery 3.7V/2000mAh
Solar Panel:	Polysilicon 5V/2W
Colour temperature:	White light (6500-7000K) and warm light (2900-3200K)
Charge time:	7 hours
Continuity:	10-12 hours
Luminous flux:	170LM
Function:	Dual colour + light control

3、Product Advantages

①Super bright LED light source

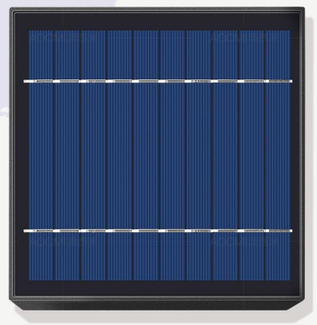
The product is designed with super bright LED light source, not only the surrounding lamp beads emit light at the same time, but also the luminous rate is high, the power consumption is small, there is no dark area, the light is soft and not blinding, and the service life is long. Monocrystalline silicon solar panels, high conversion rate, cloudy and rainy days as usual power storage.

②All-in-one design and intelligent light control

The one-piece design of the light body saves customers the steps of splicing and installing the light body, which brings great convenience. Intelligent light control control, automatic charging during the day, automatic lighting at night. Free hands for users.

③18650 long life lithium ion battery

The company is committed to meet the needs of customers “365 days, every day light”, using high-quality 18650 lithium batteries, high temperature, high safety performance, non-explosive, non-combustible, non-toxic, non-polluting, through the RoHS trademark certification, no security risks.



1

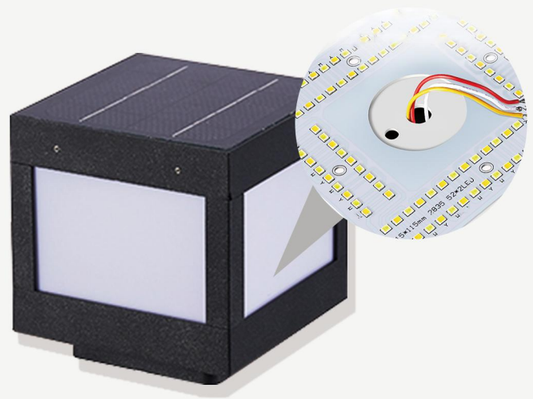
Monocrystalline silicon solar panel

High conversion rates. Only 5 hours of direct sunlight can be fully charged, and the power is stored as usual in cloudy and rainy days.

2

Super bright LED light source

Brighter, no dark areas, soft light without glare.



4、Product Pictures of different parts

fence light

3

500 cycles battery

18650 Li-ion battery has sufficient capacity to light up every night.

High-energy | Long lite | Hiah capacitv | Environmental protection

4

Stainless Steel Push Switch

Press the first full light, press the second half light, long press 3 seconds to switch the light colour.

5

High translucent PMMA lampshade

Strong light transmission performance, strong resistance to aging, flame retardant, frost and sun resistance.

6

2.2MM thick die-cast aluminium body

Preferred aluminium, frosted process texture stronger, outdoor rainproof, sun resistance is not easy to rust.

5、Series models

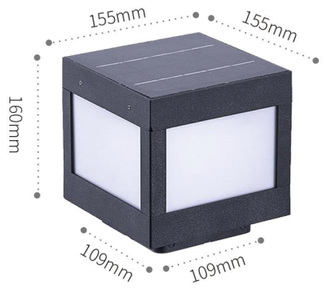
Model:	TZ-3645S	TZ-3645M	TZ-3645L
Solar panels:	5V/2/4.5/11W		
Battery:	3.7V/2000/4000/6000mAh		
Light source:	SMD2835 52*2/88*2/201*2PCS		
Lumens:	170/330/570LM		
Material:	Die-cast aluminium + PMMA		
Work hours:	10-12 hours		

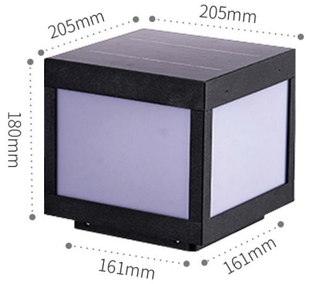
6、 Product packaging

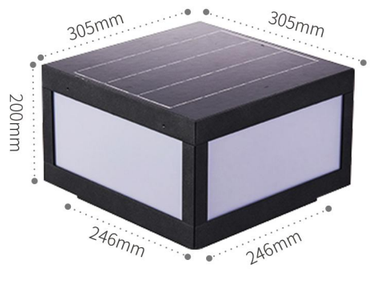
Model	Packaging	Size/CM	Qua/PCS	Net weight/KG	Gross weight/KG
TZ-3645S	Inner package	20.5*20.5*21	1	1.40	1.73
	outer package	64*43*24	6	10.38	11.14

7、 Different height for you to choose:

Physical Size Chart

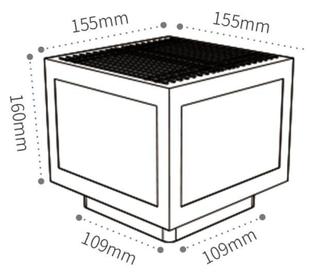


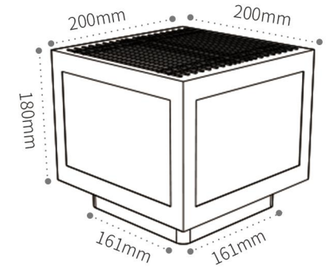


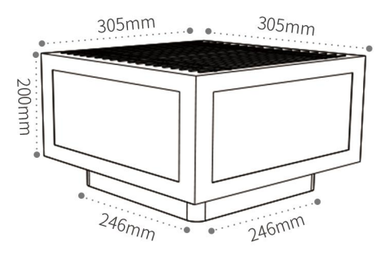


Model	solar panel diameter	height	base diameter
TZ-3645S	155mm	160mm	109mm
TZ-3645M	205mm	180mm	161mm
TZ-3645L	305mm	200mm	246mm

Line drawing size

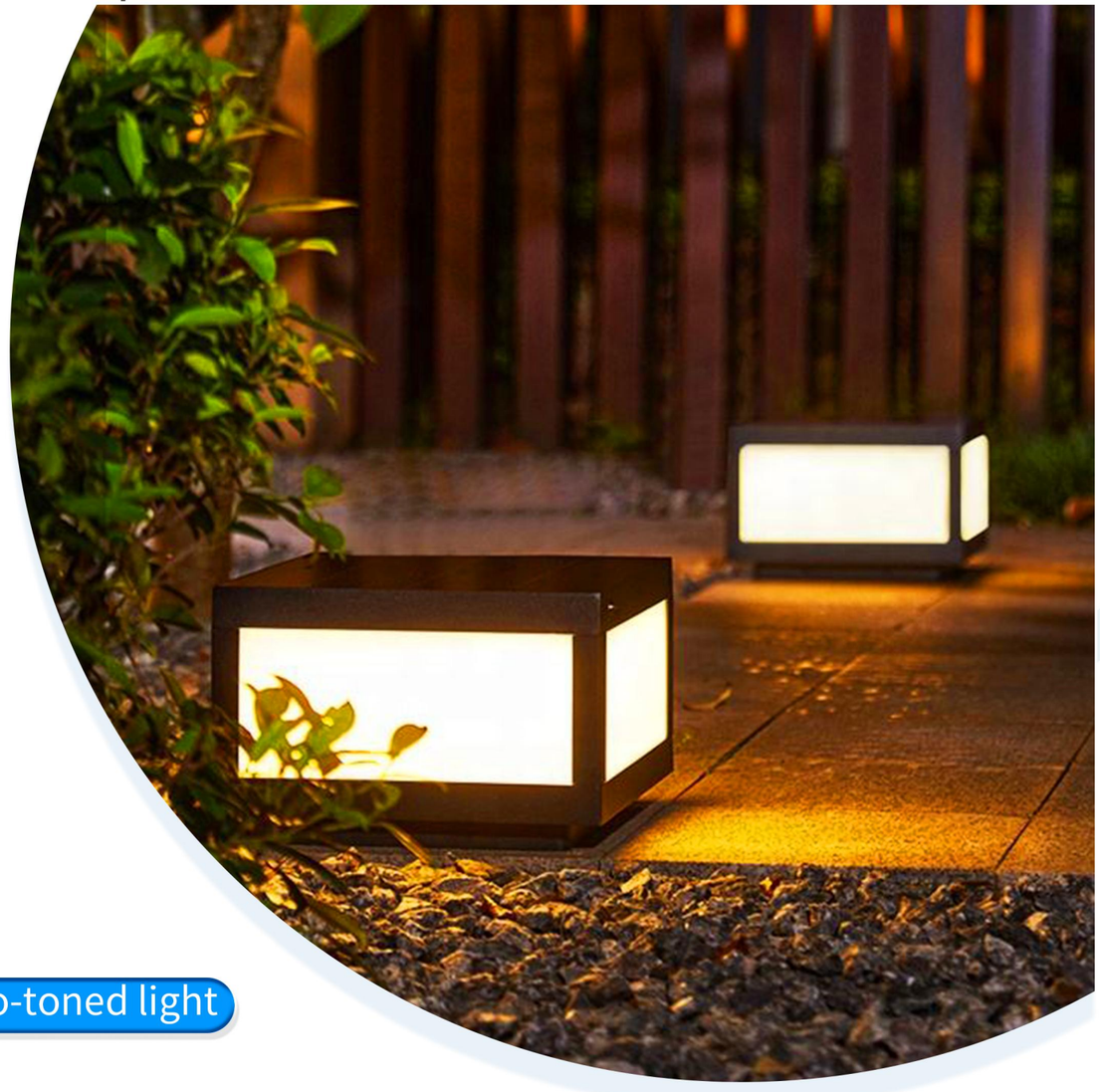






Model	solar panel diameter	height	base diameter
TZ-3645S	155mm	160mm	109mm
TZ-3645M	200mm	180mm	161mm
TZ-3645L	305mm	200mm	246mm

9、 Scene pictures



two-toned light

warm light

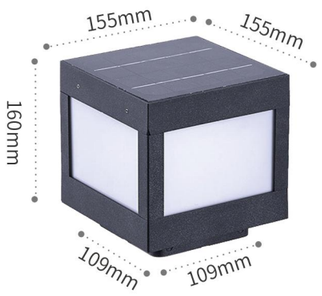
white light

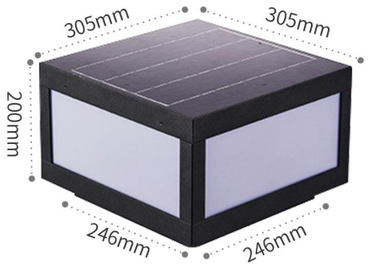
SCENE PLAN

Outdoor Solar Light

8、More details

Series Size





Packing List

Solar Fence Light-s

- 1x Solar Column Lamp
- 1 x Instruction Manual
- 4 x M8*60mm Expansion screw

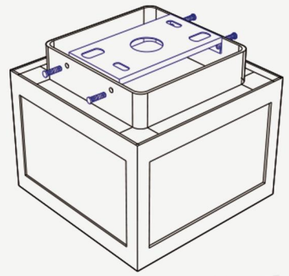
Solar Fence Light-M

- 1x Solar Column Lamp
- 1 x Instruction Manual
- 4 x M8*60mm Expansion screw

Solar Fence Light-L

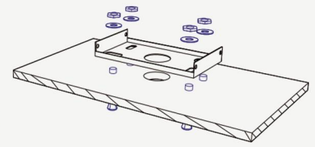
- 1x Solar Column Lamp
- 1 x Instruction Manual
- 4 x M8*60mm Expansion screw

Installation Notes



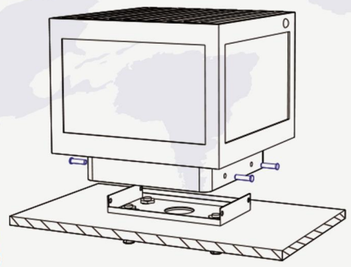
1

Unscrew the four screws on the sideand remove the bottom hanging plate.



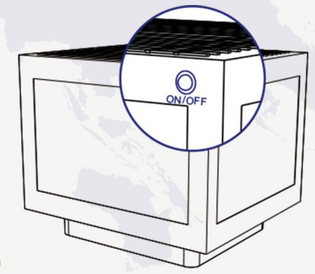
2

Drill holes according to the hole distanceof the hanging plate, insert expansionscrews, and fix the hanging plate on theinstalla-tion position.



3

Align the lamp bottom with thehanging plate, tighten the sidescrews,finish the in-stallation.



4

Turn on the switch then start to work.

10、Test Report

LIGHTSOURCE TEST REPORT

Product Info

Product Type: Cream Model Small Square Simple Pillar Head Light Warm Light Full Power with Shade　　Product Number:7

CIE Colorimetric Parameters

Chromaticity coordinates: x=0.4356 y=0.4118 u(u')=0.2464 v=0.3495 v'=0.5242

CCT: Tc=3085K (duv=0.00325)　　Color Ratio: R=0.205 G=0.776 B=0.018

Peak Wavelength: 599.9nm　Half Bandwidth: 90.7nm　Dominant Wavelength: 581.4nm　Color Purity: 0.544

CRI: Ra= 71.4, avgR(1~14)= 64.5, avgR(1~15)= 64.1 TM30: Rf= 73, Rg= 92

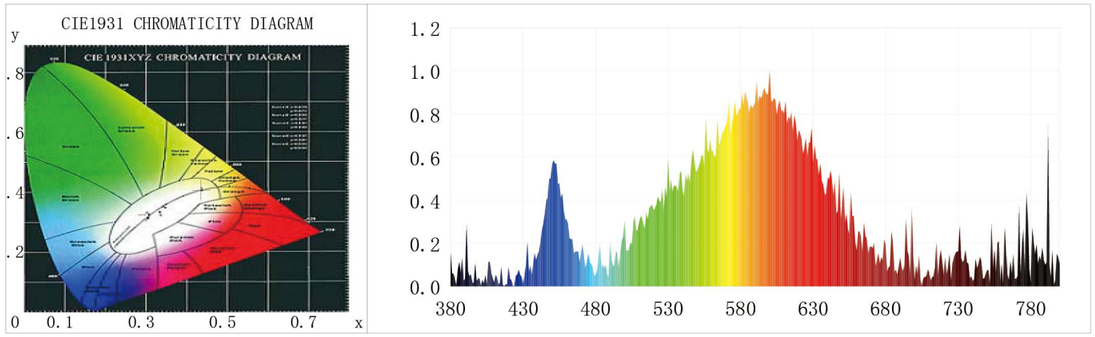
R1 =67 R2 =81 R3 =94 R4 =68 R5 =67 R6 =75 R7 =77 R8 =42

R9 =0 R10=58 R11=63 R12=46 R13=70 R14=97 R15=58

Color Quality Scale: Qa= 72.8, Qf= 74.6, Qp= 72.6, Qg= 85.6

Q1 =70 Q2 =96 Q3 =73 Q4 =67 Q5 =71 Q6 =71 Q7 =72 Q8 =80

Q9 =95 Q10=83 Q11=78 Q12=75 Q13=74 Q14=57 Q15=62



photometric parameter

Luminous Flux: 45.57 lm　　Efficiency: 0.00 lm/W　　Radiant Power: 0.134 W

EEI: 0.00　　Energy Efficiency Class: A++ (EU 874-2012)

Pupil Flux: 53.69 Plm　　Pupil Lumens Per Watt: 0.00 Plm/W　　Pupil Factor (Kp): 1.178

Cirtopic Flux: 92.32 lm

Mesopic Flux (CIE R.): 49.13 lm (Lp= 0.100 cd/m2, S/P= 1.23)

Mesopic Flux (USP): 52.27 lm (Lp= 0.100 cd/m2, S/P= 1.23)

Mesopic Flux (MOVE): 49.75 lm (Lp= 0.100 cd/m2, S/P= 1.23)

electrical parameter

Voltage: 0.0000V Current: 0.0000A Power: 0.00W Power Factor: 0.0000 Frequency: 0.00Hz

Test Info

Scan Range: 380~800:1nm
Stabilisation time: 0 Min
Max of Signal: 9128 (7016)

Photometric Method: sphere-spectroradiometer
Photometric Condition: Sphere diameter: 1.50m, 4∏
CCD Integration Time: 10000.00 ms

Condition: , R.H.:60%
Test Lab:
Operator: 01

Test Device: Inventfine CMS-2S
Test Time: 2023-10-14 10:47:49
Inspector:

LIGHTSOURCE TEST REPORT

Product Info

Product Type: Cream Model Small Square Simple Pillar Head Light White Full Power with Shade　　Product Number:8

Colour parameters

Chromaticity coordinates: x=0.3124 y=0.3362 u(u')=0.1950 v=0.3147 v'=0.4721

CCT: Tc=6468K (duv=0.00699) Color Ratio: R=0.119 G=0.839 B=0.041 Peak wavelength: 450.3nm Half Bandwidth: 15.9nm Dominant Wavelength: 493.5nm Color Purity: 0.069

CRI: Ra= 74.6, avgR(1~14)= 64.6, avgR(1~15)= 65.0 TM30: Rf= 72, Rg= 92

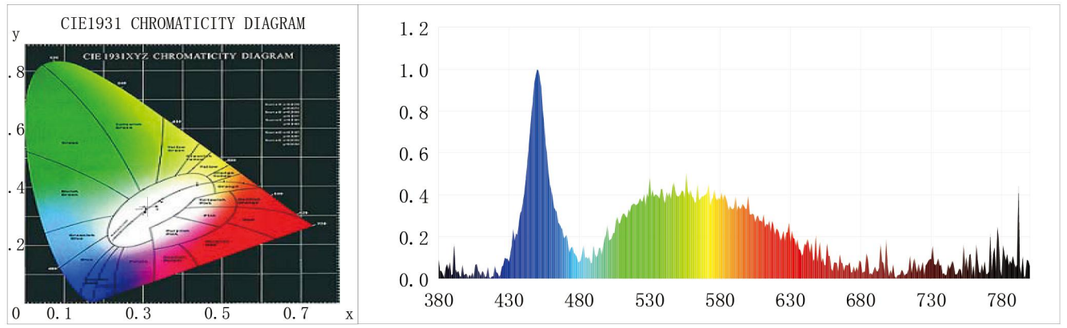
R1 =73 R2 =75 R3 =74 R4 =81 R5 =74 R6 =66 R7 =85 R8 =69

R9 =0 R10=38 R11=79 R12=33 R13=73 R14=85 R15=70

Color Quality Scale: Qa= 73.7, Qf= 73.2, Qp= 75.5, Qg= 88.0

Q1 =83 Q2 =96 Q3 =68 Q4 =59 Q5 =69 Q6 =73 Q7 =80 Q8 =88

Q9 =91 Q10=77 Q11=71 Q12=72 Q13=74 Q14=63 Q15=71



photometric parameter

Luminous Flux: 45.67 lm
EEI: 0.00
Pupil Flux: 80.81 Plm
Cirtopic Flux: 176.05 lm

Efficiency: 108.51 lm/W
Energy Efficiency Class: A++ (EU 874-2012)
Pupil Lumens Per Watt: 0.00 Plm/W

Radiant Power: 0.149 W
Pupil Factor (Kp): 1.769

Mesopic Flux (CIE R.): 60.80 lm (Lp= 0.100 cd/m2, S/P= 2.08)

Mesopic Flux (USP): 71.79 lm (Lp= 0.100 cd/m2, S/P= 2.08)

Mesopic Flux (MOVE): 63.36 lm (Lp= 0.100 cd/m2, S/P= 2.08)

electrical parameter

Voltage: 0.0000V Current: 0.0000A Power: 0.00W Power Factor: 0.0000 Frequency: 0.00Hz

Test Info

Scan Range: 380~800:1nm
Stabilisation time: 0 Min
Max of Signal: 18862 (6870)

Photometric Method: sphere-spectroradiometer
Photometric Condition: Sphere diameter: 1.50m,4∏
CCD Integration Time: 10000.00 ms

Condition: , R.H.:60%
Test Lab:
Operator: 01

Test Device: Inventfine CMS-2S
Test Time: 2023-10-14 10:49:12
Inspector:

LIGHTSOURCE TEST REPORT

Product Info

Product Type: Milk White Medium Square Simple Pillar Head Light White Full Power with Shade

Product Number:9

CIE Colorimetric Parameters

Chromaticity coordinates: x=0.3118 y=0.3354 u(u')=0.1948 v=0.3144 v'=0.4716

CCT: Tc=6506K (duv=0.00689) Color Ratio: R=0.119 G=0.839 B=0.041

Peak Wavelength: 450.2nm Half Bandwidth: 16.2nm Dominant Wavelength: 493.0nm Color Purity: 0.071

CRI: Ra= 74.9, avgR(1~14)= 65.0, avgR(1~15)= 65.3 TM30: Rf= 72, Rg= 93

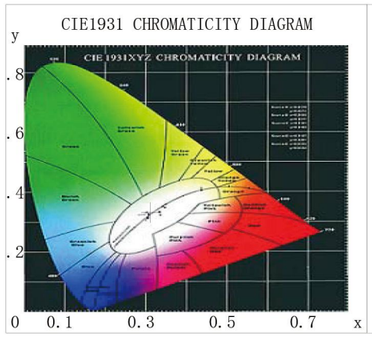
R1 =74 R2 =75 R3 =74 R4 =81 R5 =75 R6 =66 R7 =85 R8 =69

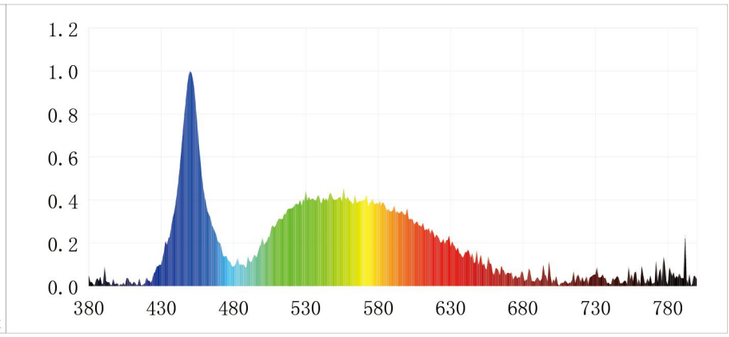
R9 =0 R10=38 R11=79 R12=34 R13=73 R14=85 R15=71

Color Quality Scale: Qa= 74.0, Qf= 73.4, Qp= 75.8, Qg= 88.2

Q1 =83 Q2 =96 Q3 =68 Q4 =59 Q5 =69 Q6 =74 Q7 =81 Q8 =88

Q9 =91 Q10=77 Q11=72 Q12=73 Q13=75 Q14=63 Q15=71





photometric parameter

Luminous Flux: 84.02 lm Efficiency: 0.00 lm/W Radiant Power: 0.264 W

EEI: 0.00 Energy Efficiency Class: A++ (EU 874-2012)

Pupil Flux: 149.17 Plm Pupil Lumens Per Watt: 0.00 Plm/W Pupil Factor (Kp): 1.775

Cirtopic Flux: 325.59 lm

Mesopic Flux (CIE R.): 112.07 lm (Lp= 0.100 cd/m2, S/P= 2.09)

Mesopic Flux (USP): 132.39 lm (Lp= 0.100 cd/m2, S/P= 2.09)

Mesopic Flux (MOVE): 116.79 lm (Lp= 0.100 cd/m2, S/P= 2.09)

electrical parameter

Voltage: 0.0000V Current: 0.0000A Power: 0.00W Power Factor: 0.0000 Frequency: 0.00Hz

Test Info

Scan Range: 380~800:1nm

Stabilisation time: 0 Min

Max of Signal: 34455 (6860)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4∏

CCD Integration Time: 10000.00 ms

Condition: , R.H.:60%

Test Lab:

Operator: 01

Test Device: Inventfine CMS-2S

Test Time: 2023-10-14 10:51:22

Inspector:

LIGHTSOURCE TEST REPORT

Product Info

Product Type: Milk White Medium Square Simple Pillar Head Light Warm Full Power with Shade

Product Number:10

Colour parameters

Chromaticity coordinates: x=0.4395 y=0.4141 u(u')=0.2479 v=0.3504 v'=0.5257

CCT: Tc=3038K (duv=0.00360) Color Ratio: R=0.208 G=0.774 B=0.018 Peak wavelength: 599.9nm Half Bandwidth: 96.1nm Dominant Wavelength: 581.5nm Color Purity: 0.562

CRI: Ra= 71.4, avgR(1~14)= 64.6, avgR(1~15)= 64.2 TM30: Rf= 73, Rg= 92

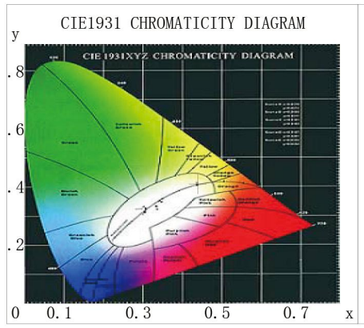
R1 =67 R2 =82 R3 =95 R4 =68 R5 =67 R6 =76 R7 =77 R8 =41

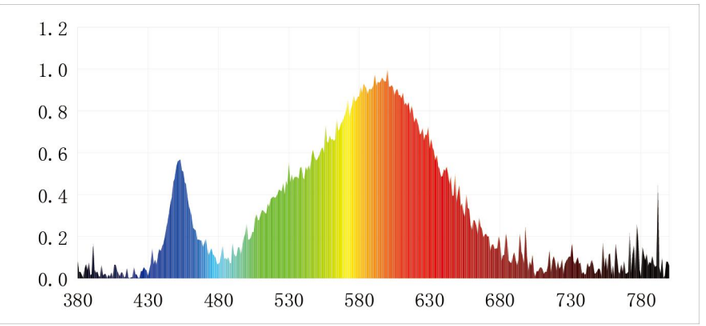
R9 =0 R10=58 R11=63 R12=45 R13=70 R14=97 R15=58

Color Quality Scale: Qa= 73.0, Qf= 74.9, Qp= 72.5, Qg= 85.0

Q1 =70 Q2 =95 Q3 =73 Q4 =67 Q5 =71 Q6 =71 Q7 =73 Q8 =80

Q9 =95 Q10=84 Q11=79 Q12=76 Q13=74 Q14=57 Q15=62





photometric parameter

Luminous Flux: 80.33 lm Efficiency: 0.00 lm/W Radiant Power: 0.227 W

EEI: 0.00 Energy Efficiency Class: A++ (EU 874-2012)

Pupil Flux: 93.64 Plm Pupil Lumens Per Watt: 0.00 Plm/W Pupil Factor (Kp): 1.166

Cirtopic Flux: 160.06 lm

Mesopic Flux (CIE R.): 86.16 lm (Lp= 0.100 cd/m2, S/P= 1.22)

Mesopic Flux (USP): 91.33 lm (Lp= 0.100 cd/m2, S/P= 1.22)

Mesopic Flux (MOVE): 87.17 lm (Lp= 0.100 cd/m2, S/P= 1.22)

electrical parameter

Voltage: 0.0000V Current: 0.0000A Power: 0.00W Power Factor: 0.0000 Frequency: 0.00Hz

Test Info

Scan Range: 380~800:1nm

Stabilisation time: 0 Min

Max of Signal: 15191 (6584)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m,4∏

CCD Integration Time: 10000.00 ms

Condition: , R.H.:60%

Test Lab:

Operator: 01

Test Device: Inventfine CMS-2S

Test Time: 2023-10-14 10:52:29

Inspector:

LIGHTSOURCE TEST REPORT

Product Info

Product Type: Cream Model Large Square Simple Pillar Head Light White Full Power with Shade

Product Number:11

CIE Colorimetric Parameters

Chromaticity coordinates: x=0.3110 y=0.3321 u(u')=0.1955 v=0.3132 v'=0.4697

CCT: Tc=6572K (duv=0.00563) Color Ratio: R=0.120 G=0.839 B=0.041

Peak Wavelength: 449.5nm Half Bandwidth: 17.3nm Dominant Wavelength: 491.0nm Color Purity: 0.076

CRI: Ra= 74.8, avgR(1~14)= 64.9, avgR(1~15)= 65.3 TM30: Rf= 71, Rg= 94

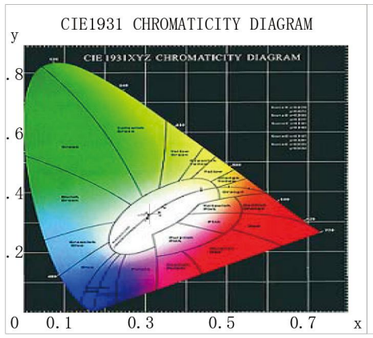
R1 =74 R2 =75 R3 =72 R4 =82 R5 =75 R6 =66 R7 =84 R8 =70

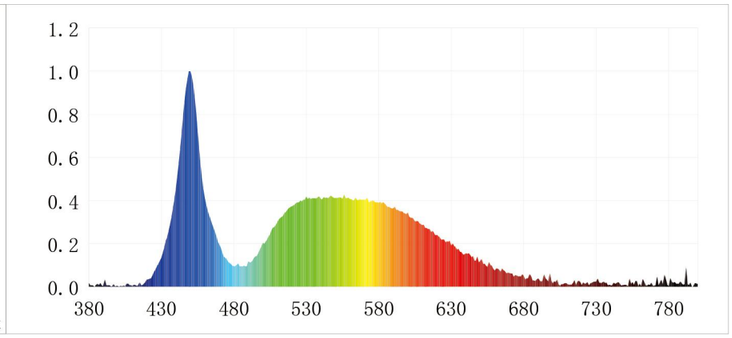
R9 =0 R10=37 R11=80 R12=35 R13=73 R14=85 R15=71

Color Quality Scale: Qa= 73.9, Qf= 73.1, Qp= 76.2, Qg= 88.9

Q1 =83 Q2 =96 Q3 =68 Q4 =59 Q5 =70 Q6 =75 Q7 =81 Q8 =88

Q9 =91 Q10=76 Q11=71 Q12=72 Q13=74 Q14=63 Q15=71





photometric parameter

Luminous Flux: 212.99 lm Efficiency: 0.00 lm/W Radiant Power: 0.657 W

EEI: 0.00 Energy Efficiency Class: A++ (EU 874-2012)

Pupil Flux: 377.84 Plm Pupil Lumens Per Watt: 0.00 Plm/W Pupil Factor (Kp): 1.774

Cirtopic Flux: 823.77 lm

Mesopic Flux (CIE R.): 283.97 lm (Lp= 0.100 cd/m2, S/P= 2.09)

Mesopic Flux (USP): 335.41 lm (Lp= 0.100 cd/m2, S/P= 2.09)

Mesopic Flux (MOVE): 295.93 lm (Lp= 0.100 cd/m2, S/P= 2.09)

electrical parameter

Voltage: 0.0000V Current: 0.0000A Power: 0.00W Power Factor: 0.0000 Frequency: 0.00Hz

Test Info

Scan Range: 380~800:1nm

Stabilisation time: 0 Min

Max of Signal: 49976 (5817)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m, 4∏

CCD Integration Time: 5839.11 ms

Condition: , R.H.:60%

Test Lab:

Operator: 01

Test Device: Inventfine CMS-2S

Test Time: 2023-10-14 10:55:15

Inspector:

LIGHTSOURCE TEST REPORT

Product Info

Product Type: Cream Model Large Square Simple Pillar Head Light Warm Light Full Power with Shade

Product Number:12

Colour parameters

Chromaticity coordinates: x=0.4326 y=0.4069 u(u')=0.2466 v=0.3479 v'=0.5218

CCT: Tc=3098K (duv=0.00175) Color Ratio: R=0.207 G=0.774 B=0.019 Peak wavelength: 599.8nm Half Bandwidth: 112.5nm Dominant Wavelength: 581.8nm Color Purity: 0.520

CRI: Ra= 72.6, avgR(1~14)= 65.9, avgR(1~15)= 65.6 TM30: Rf= 73, Rg= 93

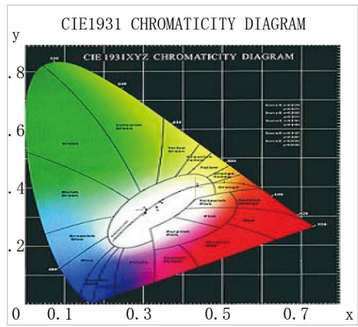
R1 =69 R2 =83 R3 =94 R4 =69 R5 =69 R6 =77 R7 =77 R8 =43

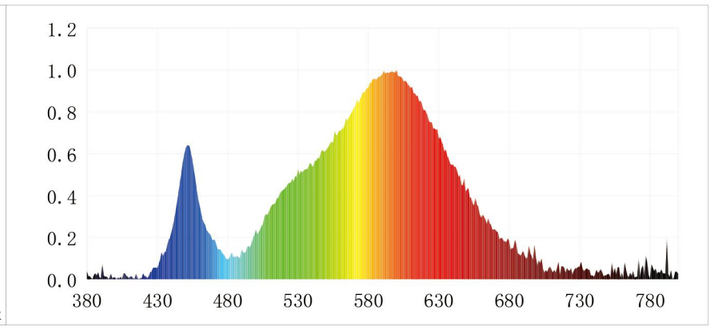
R9 =0 R10=60 R11=65 R12=48 R13=72 R14=97 R15=60

Color Quality Scale: Qa= 73.5, Qf= 75.0, Qp= 74.1, Qg= 87.1

Q1 =71 Q2 =96 Q3 =73 Q4 =67 Q5 =72 Q6 =72 Q7 =73 Q8 =80

Q9 =95 Q10=83 Q11=78 Q12=75 Q13=74 Q14=59 Q15=63





photometric parameter

Luminous Flux: 200.87 lm

EEI: 0.00

Pupil Flux: 240.16 Plm

Cirtopic Flux: 418.84 lm

Efficiency: 0.00 lm/W

Energy Efficiency Class: A++ (EU 874-2012)

Pupil Lumens Per Watt: 0.00 Plm/W

Radiant Power: 0.564 W

Pupil Factor (Kp): 1.196

Mesopic Flux (CIE R.): 218.06 lm (Lp= 0.100 cd/m2, S/P= 1.26)

Mesopic Flux (USP): 233.17 lm (Lp= 0.100 cd/m2, S/P= 1.26)

Mesopic Flux (MOVE): 221.04 lm (Lp= 0.100 cd/m2, S/P= 1.26)

electrical parameter

Voltage: 0.0000V Current: 0.0000A Power: 0.00W Power Factor: 0.0000 Frequency: 0.00Hz

Test Info

Scan Range: 380~800:1nm

Stabilisation time: 0 Min

Max of Signal: 36297 (7030)

Photometric Method: sphere-spectroradiometer

Photometric Condition: Sphere diameter: 1.50m,4∏

CCD Integration Time: 10000.00 ms

Condition: , R.H.:60%

Test Lab:

Operator: 01

Test Device: Inventfine CMS-2S

Test Time: 2023-10-14 10:56:29

Inspector: