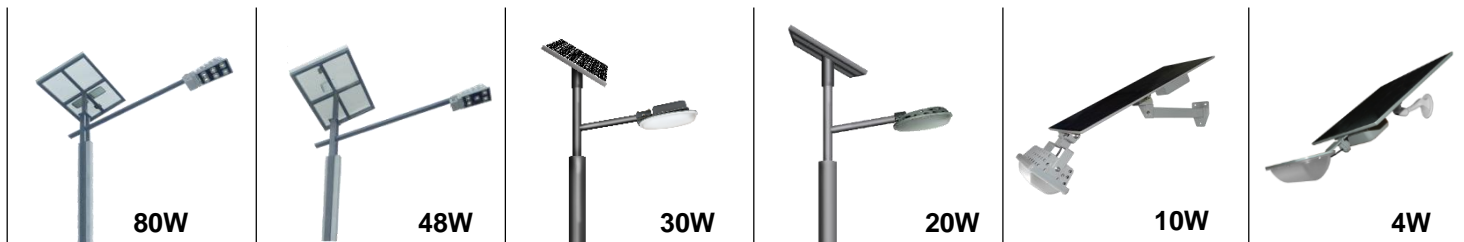




## DELTA SOLAR LED LIGHTING

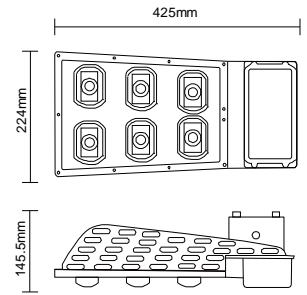


**SONARAY®**



## SR-1080

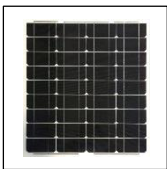
Power Consumption: 80W  
 Beam Angle: 145°(H)×65°(V)  
 Lighting Duration: 32hrs\*1  
 Time to fully charged: 8hrs\*2  
 Luminaire Material: Aluminum  
 Luminaire Weight: 4kg/8.82lb  
 Solar Panel & Battery Weight: 17.2kg/37.91lb  
 Battery Position: Built-in on the panel  
 Operating Temperature : -25°C~+45°C, -13°F~+113°F



Color Temperature



### Accessories



Solar Panel (front)



Solar Panel (back),  
Battery built-in

## Battery Specification

Nominal Capacity	14.8V 30Ahx2
Battery cell	Lithium battery
Battery Life	3yrs
Cycle Life	1000 times
Maximum Charge/ Discharge Current	8A
Standard Discharge Current	5A
Nominal Voltage	14.8V
Max Charge Voltage	16.8V
Discharge Cut-off Voltage	12.0V
Overcharge Detection Voltage	4.25V±0.025V
Overdischarge Detection Voltage	2.5V±0.1V
Overdischarge Detection Current	7A~15A

## Solar Panel Specification

### Specifications

Maximum Power (Pmax)	150Wp
Maximum Power Voltage (Vmp)	18V
Maximum Power Current (Imp)	8.34A
Open-Circuit Voltage (Voc)	22V
Short-Circuit Current (Isc)	9.18A
System Voltage	1000V
Tolerance	±3%

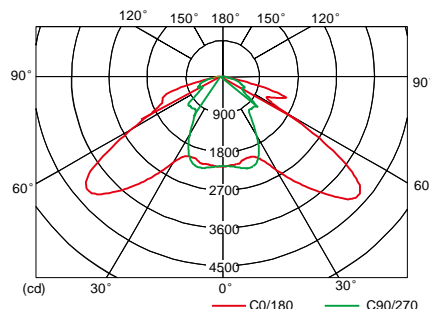
### Mechanical Characteristics

Solar Cell	Mono(156x156)
Number of Cells	36(4×9)
Dimension	1480×670×97mm
Frame	Aluminum alloy

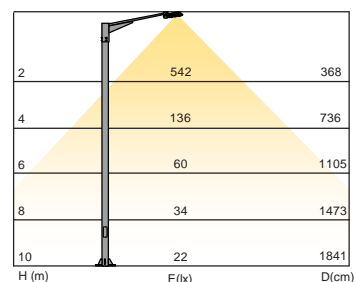
Note: \*1The duration refers to the time for which the luminaire could work continually with the battery fully charged.

\*2 The time refers to the duration in which the battery could be fully charged under the effective illumination of the solar panel.

### Light Distribution Curve



### Illuminance Distribution



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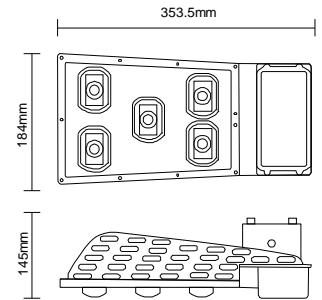
Version 1.8. Edited date 2015.10





## SR-1048

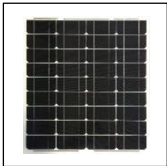
Power Consumption: 48W  
 Beam Angle: 145°(H)×65°(V)  
 Lighting Duration: 26hrs\*1  
 Time to fully charged: 9hrs\*2  
 Luminaire Material: Aluminum  
 Luminaire Weight: 2.5kg/5.51lb  
 Solar Panel & Battery Weight: 11kg/24.25lb  
 Battery Position: Built-in on the panel  
 Operating Temperature : -25°C~+45°C, -13°F~+113°F



Color Temperature



### Accessories



Solar Panel (front)



Solar Panel (back),  
Battery built-in

## Battery Specification

Nominal Capacity	14.8V 30Ah
Battery cell	Lithium battery
Battery Life	3yrs
Cycle Life	1000 times
Maximum Charge/ Discharge Current	8000mA
Standard Discharge Current	2700mA
Nominal Voltage	14.8V
Max Charge Voltage	16.8V
Discharge Cut-off Voltage	12.0V
Overcharge Detection Voltage	4.25V±0.025V
Overdischarge Detection Voltage	2.5V±0.1V
Overdischarge Detection Current	7A~15A

## Solar Panel Specification

### Specifications

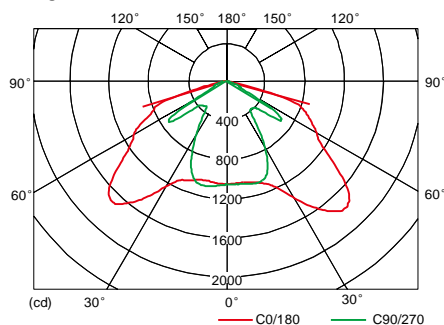
Maximum Power (Pmax)	90Wp
Maximum Power Voltage (Vmp)	18V
Maximum Power Current (Imp)	5.02A
Open-Circuit Voltage (Voc)	22V
Short-Circuit Current (Isc)	5.53A
System Voltage	1000V
Tolerance	±3%

### Mechanical Characteristics

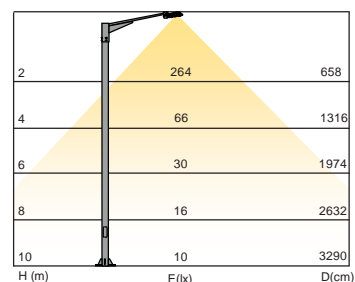
Solar Cell	Mono(156x156)
Number of Cells	36(125x125)
Dimension	1196×544×30mm
Frame	Aluminum alloy

Note: \*1The duration refers to the time for which the luminaire could work continually with the battery fully charged.  
 \*2 The time refers to the duration in which the battery could be fully charged under the effective illumination of the solar panel.

### Light Distribution Curve



### Illuminance Distribution



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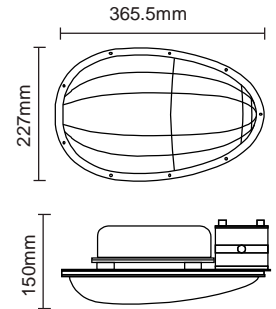
Version 1.8. Edited date 2015.10





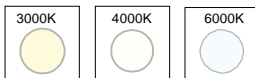
## SR-1030

Power Consumption: 30W  
 CRI: Ra≥80  
 Luminous Flux: 3180lm(6000K)  
 Luminous Efficacy: 106lm/W(6000K)  
 Beam Angle: 120°  
 Lighting Duration: 30hrs\*1  
 Time to fully charged: 6hrs\*2  
 Luminaire Material: Aluminum  
 Luminaire Weight: 2.59kg/5.71lb  
 Solar Panel Weight: 4.7kg/10.36lb  
 Battery Position: Built-in on the luminaire  
 Battery: 14.8V 15Ah, Internal  
 Operating Temperature : -25°C~+45°C, -13°F~+113°F



## IP65

### Color Temperature

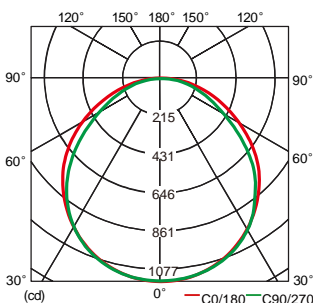


### Accessories



Solar Panel

### Light Distribution Curve



## Battery Specification

Nominal Capacity	15000mAh
Battery cell	Lithium battery
Battery Life	3yrs
Cycle Life	1000 times
Maximum Charge/ Discharge Current	5000mA
Standard Discharge Current	2000mA
Nominal Voltage	14.8V
Max Charge Voltage	16.8V
Discharge Cut-off Voltage	12.0V
Overcharge Detection Voltage	4.25V±0.025V
Overdischarge Detection Voltage	2.5V±0.1V
Overdischarge Detection Current	7A~15A
Relative humidity	10%~90%

## Solar Panel Specification

### Specifications

Maximum Power (Pmax)	60Wp
Maximum Power Voltage (Vmp)	18V
Maximum Power Current (Imp)	3.33A
Open-Circuit Voltage (Voc)	21.4V
Short-Circuit Current (Isc)	3.78A
System Voltage	1000V
Tolerance	3±

### Mechanical Characteristics

Solar Cell	Mono125×78mm
Number of Cells	36 (4×9)
Dimension	765×550×35mm
Frame	Aluminum alloy
Surface Glass	3.2mm, High Transmittance, Low Iron, Tempered Glass

Note: \*1The duration refers to the time for which the luminaire could work continually with the battery fully charged.  
 \*2 The time refers to the duration in which the battery could be fully charged under the effective illumination of the solar panel.

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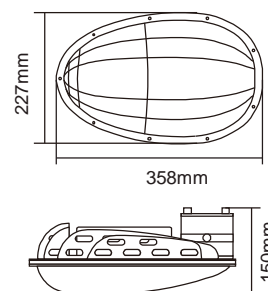
Version 1.8. Edited date 2015.10





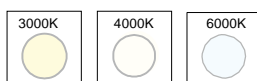
## SR-1020

Power Consumption: 20W  
 CRI: Ra≥80  
 Luminous Flux: 2000lm(6000K)  
 Luminous Efficacy: 100lm/W(6000K)  
 Beam Angle: 120°  
 Lighting Duration: 30hrs\*1  
 Time to fully charged: 6hrs\*2  
 Luminaire Material: Aluminum  
 Luminaire Weight: 2.58kg/5.69lb  
 Solar Panel Weight: 3.5kg/7.716lb  
 Battery Position: Built-in on the luminaire  
 Battery: 14.8V 10Ah, Internal  
 Operating Temperature : -25°C~+45°C, -13°F~+113°F

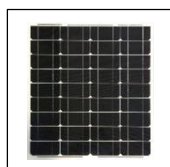


## IP65

### Color Temperature

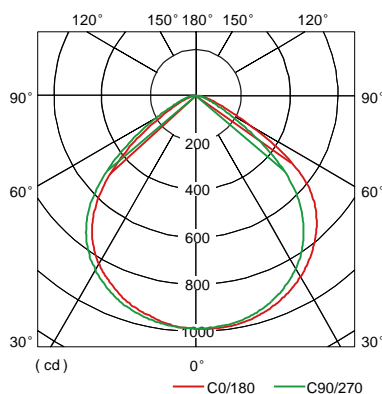


### Accessories

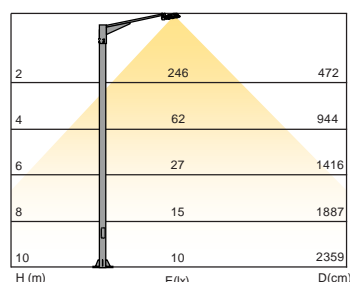


Solar Panel

### Light Distribution Curve



### Illuminance Distribution



## Battery Specification

Nominal Capacity	10000mAh
Battery cell	Lithium battery
Battery Life	3yrs
Cycle Life	1000 times
Maximum Charge/ Discharge Current	5000mA
Standard Discharge Current	1400mA
Nominal Voltage	14.8V
Max Charge Voltage	16.8V
Discharge Cut-off Voltage	12.0V
Overcharge Detection Voltage	4.25V±0.025V
Overdischarge Detection Voltage	2.5V±0.1V
Overdischarge Detection Current	7A~15A
Relative humidity	10%~90%

## Solar Panel Specification

### Specifications

Maximum Power (Pmax)	40Wp
Maximum Power Voltage (Vmp)	18V
Maximum Power Current (Imp)	2.23A
Open-Circuit Voltage (Voc)	22V
Short-Circuit Current (Isc)	2.46A
System Voltage	1000V
Tolerance	±3%

### Mechanical Characteristics

Solar Cell	125×62.5
Number of Cells	4×9
Dimension	641×544×25mm
Frame	Aluminum alloy
Surface Glass	3.2mm, Super White Tempered Glass

Note: \*1The duration refers to the time for which the luminaire could work continually with the battery fully charged.

\*2 The time refers to the duration in which the battery could be fully charged under the effective illumination of the solar panel.

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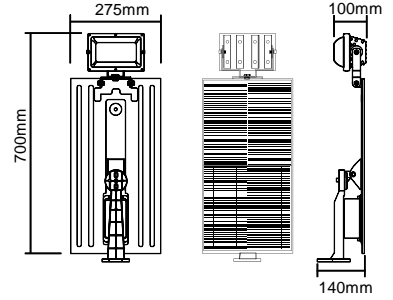
Version 1.8. Edited date 2015.10





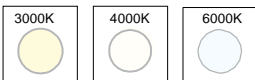
## SR-1010

Power: 10W  
 Luminous Flux: 630lm(6000K)  
 Luminous Efficacy: 63lm/W(6000K)  
 Beam Angle: 120°  
 Lighting Duration: 17hrs\*1  
 Time to fully charged: 7~8hrs\*2  
 Battery: 7.4V 15Ah  
 Solar Panel: 20W  
 Luminaire Material: Aluminum  
 Weight: 4.7kg/10.36lb  
 Operating Temperature: -42°C~+50°C, -44°F~+122°F



## IP65

Color Temperature



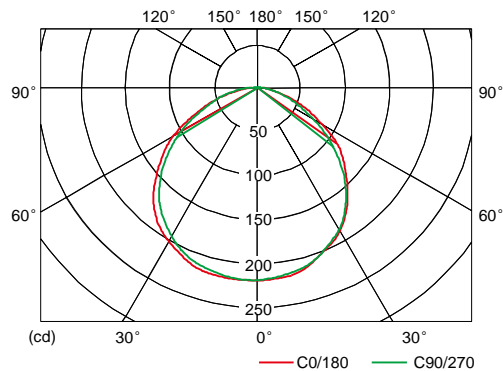
## Battery Specification

Nominal Capacity	15000mAh
Cycle Life	1000 times
Maximum Charge/ Discharge Current	7500mA
Standard Discharge Current	1350mA
Nominal Voltage	7.4V
Max Charge Voltage	8.4V
Discharge Cut-off Voltage	6.0V
Overcharge Detection Voltage	4.25V±0.05V
Overdischarge Detection Voltage	3.0V±0.05V
Relative humidity	10%~90%

Note: \*1The duration refers to the time for which the luminaire could work continually with the battery fully charged.

\*2 The time refers to the duration in which the battery could be fully charged under the effective illumination of the solar panel.

Light Distribution Curve



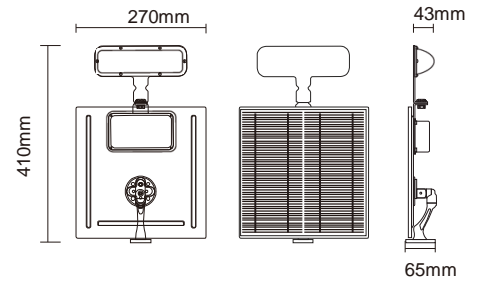
Illuminance Distribution

1	213	284
2	53	567
3	24	851
4	13	1134
5	9	1418
H (m)	E(lx)	D(cm)



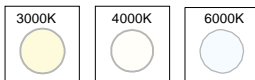
## SR-1004

Power: 4W  
 Luminous Flux: 224lm(6000K)  
 Luminous Efficacy: 56lm/W(6000K)  
 Beam Angle: 120°  
 Lighting Duration: 15hrs\*1  
 Time to fully charged: 7hrs\*2  
 Battery: 7.4V 5Ah  
 Solar Panel: 10W  
 Luminaire Material: Aluminum  
 Weight: 1.65kg/3.64lb  
 Operating Temperature: -42°C~+50°C, -44°F~+122°F



## IP65

Color Temperature

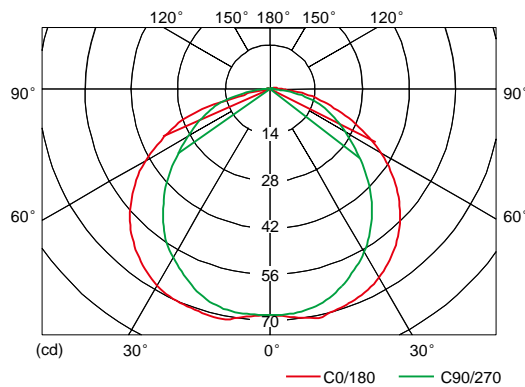


## Battery Specification

Nominal Capacity	5000mAh
Cycle Life	1000 times
Maximum Charge/ Discharge Current	2500mA
Standard Discharge Current	540mA
Nominal Voltage	7.4V
Max Charge Voltage	8.4V
Discharge Cut-off Voltage	6.0V
Overcharge Detection Voltage	4.25V±0.05V
Overdischarge Detection Voltage	3.0V±0.05V
Relative humidity	10%~90%

Note: \*1The duration refers to the time for which the luminaire could work continually with the battery fully charged.  
 \*2 The time refers to the duration in which the battery could be fully charged under the effective illumination of the solar panel.

Light Distribution Curve



Illuminance Distribution

1	65	274
2	16	547
3	7	821
4	4	1195
5	3	1369
H (m)	E (lx)	D (cm)