

AIO SOLAR

AIO Solar Technology Co., Ltd



AIO-K
Solar Street Light





Features:

High Bright LED chips

- $\geq 200\text{Lm/W}$ for whole lamp

LiFePo4 Battery

- Deep cycle time $\geq 2,000$ times

IP 66 Waterproof

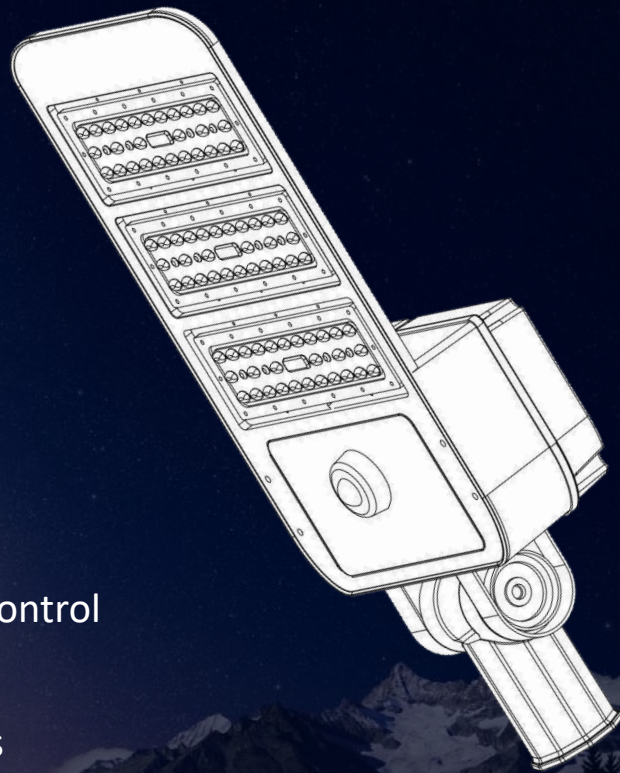
- Unique patented design structure

Motion Sensor

- Energy saving mode is adjustable by remote control

180° Adjustable Arm

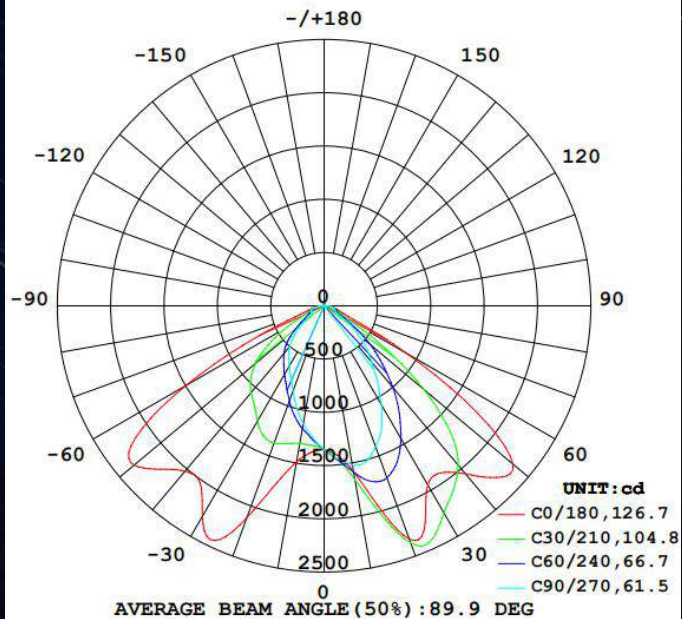
- adjust the angle to fit with different situations



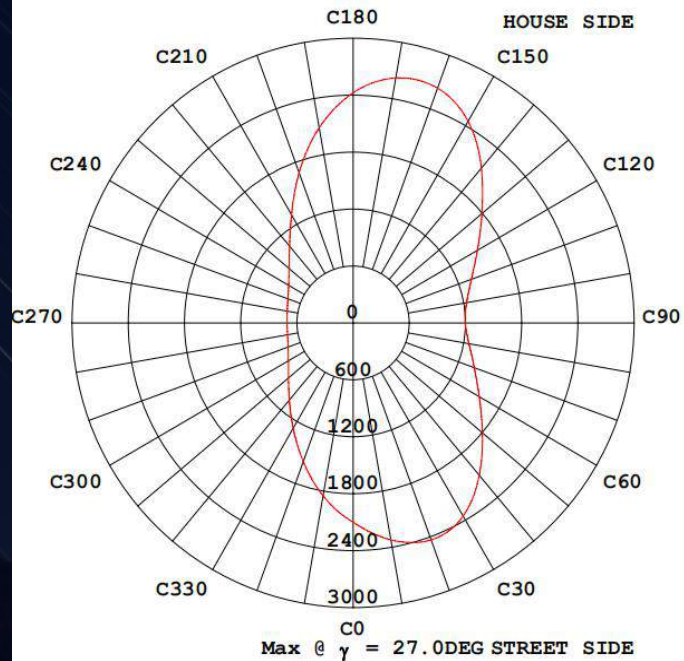
Parameter:

Model	AIO-K15W	AIO-K20W
Solar Panel	45w Poly Crystalline Silicon(For reference)	60w Poly Crystalline Silicon(For reference)
Battery	12.8v 18Ah LiFe PO4 battery	12.8v 24Ah LiFe PO4 battery
LED Chips	3 pcs LED module, Super Bright Bridgelux Chips	
Beam Angle	>120°	
Color Rendering	>80	
Luminous Efficiency	≥200Lm/w	
CCT	3000-6000K	
Material	Aluminium alloy	
Working mode	Whole night working, lighting control+human sensor Full power when people passby, then shift to savig mode after people gone 10s.	
Waterproof	IP 66	

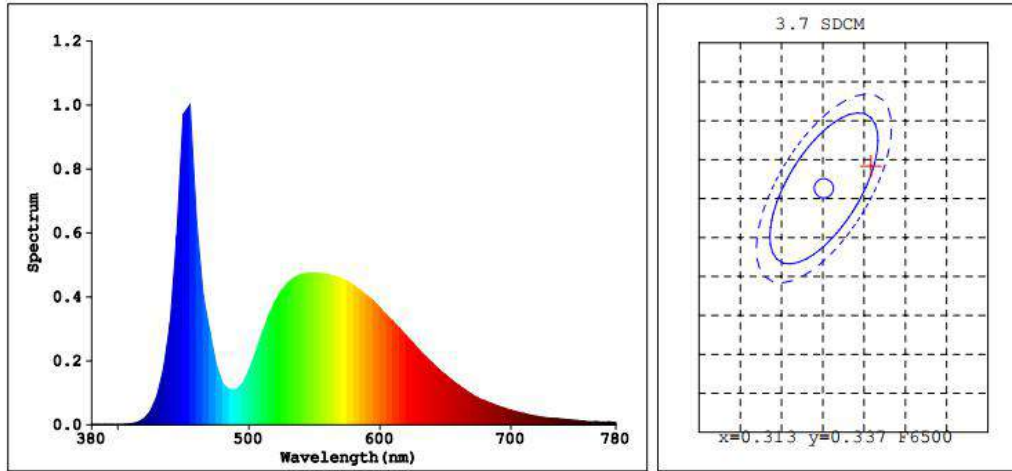
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM



Light Source Test Report



Color Parameters:

Chromaticity Coordinate: $x=0.3179$ $y=0.3393$

Chromaticity Coordinate: $u'=0.1976$ $v'=0.4745$ ($duv=5.83e-03$)

$T_c=6175K$ Dominant WL: $L_d=496.7nm$ Purity=4.9% Centroid WL: $545.0nm$

Ratio: $R=13.6\%$ $G=82.5\%$ $B=3.9\%$ Peak WL: $L_p=455.0nm$ HWL: $19.6nm$

Render Index: $R_a=73.8$ CRI=62.9

R1 =71	R2 =79	R3 =82	R4 =73	R5 =71	R6 =69	R7 =85	
R8 =62	R9 =-23	R10=47	R11=68	R12=36	R13=72	R14=90	R15=67

Photo Parameters:

Flux: 2473.8 lm Fe: 7.5765 W Efficacy: 202.7 lm/W

Efficacy:
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The background of the slide is a dark, grayscale image of a city skyline at night. The most prominent feature is the Petronas Twin Towers in Kuala Lumpur, Malaysia, which are illuminated and stand out against the dark sky. Other skyscrapers and buildings are visible in the background, creating a dense urban landscape.

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