LISHUI E-ABLE POWER EQUIPMENT CO., LTD
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E-ABLE POWER / SOLAR GARDEN LIGHT / BOLLARD

Solar Bollard Light CPD 2106

Angel Eye · H380 / H680 / H880 mm · 4.5 W · IP65 · 360°

The Angel Eye is a H380 / H680 / H880 mm bollard for paths, garden edges and courtyard planting. It is a pedestrian-scale fixture: the light lands on the surface people walk on, not on the space above it, which is why the format belongs to gardens and estate roads rather than to street lighting.

The head is shared across the range on a Φ240 diameter; the body is die-cast aluminium with a PC diffuser, sealed to IP65. A 4.5 W / 5 V monocrystalline panel and a 3.2 V / 8000 mAh LiFePO4 battery sit in the head.



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IP65	4.5 W	239.89–244.57	3–5	360°	Φ240
PROTECTION	PANEL	LUMEN	RAINY DAYS	BEAM	HEAD, MM

KEY FEATURES

01

Die-cast aluminium body
One-piece casting, corrosion resistant, fixed with stainless fasteners.

Monocrystalline panel
4.5 W / 5 V panel in the head; charges in overcast weather.

LiFePO4 battery
3.2 V / 8000 mAh; stable chemistry, deep-cycle tolerant.

360° distribution
Light spread over 360° so the pool stays on the walking surface.

Dusk-to-dawn control
Automatic on at dusk, off at dawn; no timer to set.

No trenching
Fixes to a base plate in minutes; no supply cable to bury.

ORDERING OPTIONS

Model	Size	Power	Mounting	Head
CPD-2106 / H380	H380 mm	4.5 W	Base, expansion screws	Φ240 mm
CPD-2106 / H680	H680 mm	4.5 W	Base, expansion screws	Φ240 mm
CPD-2106 / H880	H880 mm	4.5 W	Base, expansion screws	Φ240 mm

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TECHNICAL DATA

02

Values are transcribed from the supplier parameter table for CPD-2106. The three sizes differ only in post length: head, panel, battery and base plate are common. Net weight is not stated by the supplier for this model, and the gross weight of the four-piece carton is quoted per carton.

Item	H380 mm	H680 mm	H880 mm
Electrical			
Rated power	4.5 W	4.5 W	4.5 W
Input voltage	DC 3.2 V	DC 3.2 V	DC 3.2 V
Solar panel	4.5 W / 5 V monocrystalline	4.5 W / 5 V monocrystalline	4.5 W / 5 V monocrystalline
Battery	3.2 V / 8000 mAh LiFePO4	3.2 V / 8000 mAh LiFePO4	3.2 V / 8000 mAh LiFePO4
Charging time	4–6 h by bright sunlight	4–6 h by bright sunlight	4–6 h by bright sunlight
Autonomy	3–5 rainy days	3–5 rainy days	3–5 rainy days
Controller	Dusk-to-dawn sensor, PWM controller, waterproof push switch	Dusk-to-dawn sensor, PWM controller, waterproof push switch	Dusk-to-dawn sensor, PWM controller, waterproof push switch
Optical			
Light source	2835 SMD LED, 30 pcs	2835 SMD LED, 30 pcs	2835 SMD LED, 30 pcs
Luminous flux	239.89 lm (3000K) / 244.57 lm (6500K)	239.89 lm (3000K) / 244.57 lm (6500K)	239.89 lm (3000K) / 244.57 lm (6500K)
Colour temperature	3000K – 6500K	3000K – 6500K	3000K – 6500K
CRI (Ra)	> 80	> 80	> 80
Beam angle	360°	360°	360°
Construction			
Material	Die-cast aluminium + PC	Die-cast aluminium + PC	Die-cast aluminium + PC
Lamp colour	Black (other colours on request)	Black (other colours on request)	Black (other colours on request)
Head size	Φ240 mm	Φ240 mm	Φ240 mm
Overall size	Φ240 × 150 × H380 mm	Φ240 × 150 × H680 mm	Φ240 × 150 × H880 mm
Mounting	Base, expansion screws	Base, expansion screws	Base, expansion screws
Operating			
Protection	IP65	IP65	IP65
Operating temperature	−25 to +50 °C	−25 to +50 °C	−25 to +50 °C
Humidity	10–90 %	10–90 %	10–90 %
Installation height	3–6 m	3–6 m	3–6 m
Warranty	2 years	2 years	2 years
Certifications	CE, RoHS, IP65	CE, RoHS, IP65	CE, RoHS, IP65
Packing			
Inner box	1 pc, 240 × 240 × 410 mm	1 pc, 240 × 240 × 710 mm	1 pc, 240 × 240 × 910 mm
Outer carton	4 pcs, 510 × 510 × 440 mm	4 pcs, 510 × 510 × 740 mm	4 pcs, 510 × 510 × 940 mm
Gross weight	10.9 kg (outer, 4 pcs)	13.38 kg (outer, 4 pcs)	16.9 kg (outer, 4 pcs)

NOTES

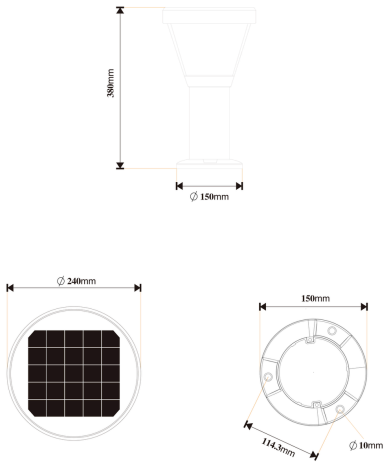
- Values are transcribed from the supplier specification sheet for this model. Where a range is given, the lower figure applies to the warm-white version and the upper to the cool-white version.
- Autonomy figures assume a full charge, the factory dusk-to-dawn program and normal winter insolation for the latitude of installation.
- Luminous flux and CRI are quoted per colour temperature; the two are measured separately on the production sample.

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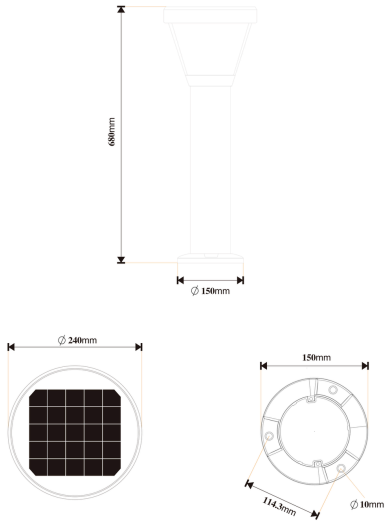
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DIMENSIONS

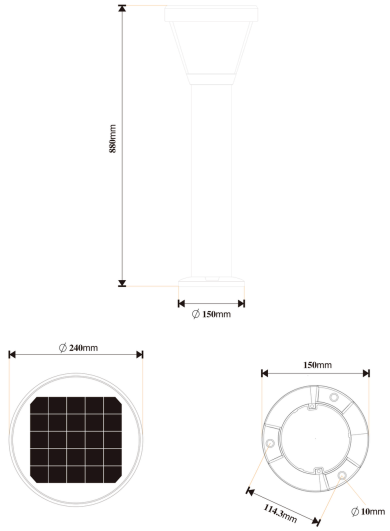
03



CPD-2106 · H380 mm, Φ150 mm base



CPD-2106 · H680 mm, Φ150 mm base



CPD-2106 · H880 mm, Φ150 mm base

The three heights share one head of Φ240 mm and one base plate of Φ150 mm, bolt circle 114.3 mm, four Φ10 mm holes. Overall heights are 380, 680 and 880 mm; the drawings are the supplier artwork.

The base version is fixed to a concrete plinth or a paving base with expansion screws. Every height in the range uses the same head and the same fixing points, so a shorter unit can be swapped for a taller one without redrilling.

INSTALLATION SEQUENCE

- **1 · Set out the line.** Mark centres at 3–5 m for paths and 6–8 m for estate roads; keep 0.3 m clear of the paving edge so the base is not walked on.
- **2 · Fix the base.** Cast a small plinth or use the paving base, then tighten the three expansion screws; check the post is plumb before final tightening.
- **3 · Mount the head.** Seat the head on the post and align the light distribution with the walking surface; the distribution is symmetric, so alignment is for appearance only.
- **4 · Commission.** Press the switch and wait 3 s; confirm the lamp lights only in darkness. A full charge takes one clear day.

SUPPLIED BY E-ABLE

- Luminaire head with integrated panel and battery
- Post and base plate
- Three expansion screws

BY THE PROJECT

- Concrete plinth or paving base
- Supply cable and protection (AC version only)

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CONSTRUCTION

04



BUILD AND MATERIALS

Construction	
Light source	2835 SMD LED, 30 pcs, rated 80 000–100 000 h
Diffuser	PC translucent diffuser, even distribution
Body	One-piece die-cast aluminium, corrosion resistant
Solar panel	Monocrystalline 4.5 W / 5 V, integrated in the head
Battery	LiFePO4 3.2 V / 8000 mAh, more than 2 000 cycles
Control	Dusk-to-dawn sensor, PWM controller, waterproof push switch

The 360° head is intended for settings seen from several sides, such as an island bed or a driveway entrance, where a directional marker would leave one approach dark. The switch sits behind the shade: press it once, allow 3 s, and the lamp follows the sensor.

WHAT TO SPECIFY

- **Height.** H380 / H680 / H880 mm — use the lower height for planting borders and low hedges, the higher where the head must clear shrubs.
- **Light colour.** 3000K – 6500K: 3000K for warm residential settings, 6500K where a cooler, brighter path is wanted.

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APPLICATIONS

05

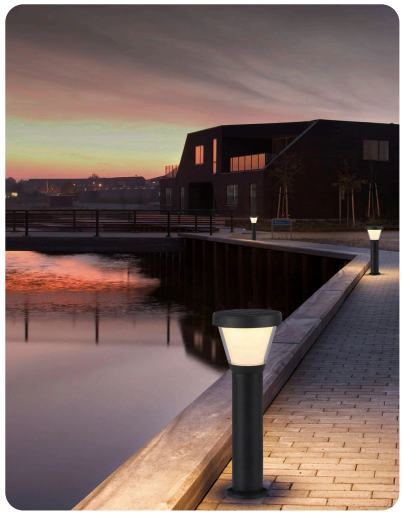
A H380 / H680 / H880 mm bollard is a **pedestrian-scale** fixture: it lights the surface people walk on, not the space above it. That is why the format belongs to gardens and estate roads rather than to street lighting. The five settings below are the ones this model is ordered for most often.

WHERE IT FITS

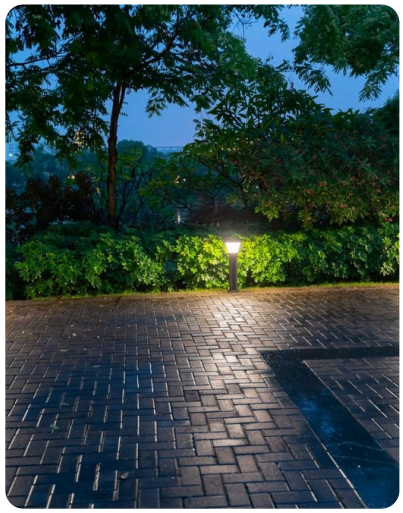
- **Villa gardens and courtyards** — line the path from gate to door at 3–4 m spacing; the 360° distribution lights the paving without throwing light into bedroom windows.
- **Community greenways and residential roads** — higher units on both edges read as a continuous ribbon at night and mark the kerb line for drivers.
- **Park and plaza edges** — mixed with planting, they define the walkable area without poles or glare.
- **Hotel and resort landscaping** — the head is decorative in daylight, so it doubles as garden furniture rather than a technical fixture.
- **Municipal footpaths and cycleways** — solar units avoid trenching; 3–5 overcast days of autonomy covers most temperate and subtropical sites.











Selection note: space the units at 3–5 m for path lighting and 6–8 m for estate roads; keep the lower height for planting borders and the higher where the fixture must clear shrubs.

Specifications are nominal and may change without notice. The contractual revision is the one confirmed in the order acknowledgement.