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

Solar Bollard Light CPD 3008

Bird · 600 / 800 / 1000 mm · Solar 5 W · IP65 · 120°

The Bird is a 600 / 800 / 1000 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 235 × 150 diameter; the body is die-cast aluminium with a PC diffuser, sealed to IP65. A 5 W / 5 V monocrystalline panel and a 3.2 V / 8000 mAh LiFePO4 battery sit in the head.



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IP65	5 W	278–304	3–5	120°	235 × 150
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
5 W / 5 V panel in the head; charges in overcast weather.

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

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

IP65 protection
Sealed against rain and dust for permanent outdoor use.

120° distribution
Light spread over 120° so the pool stays on the walking surface.

ORDERING OPTIONS

Model	Size	Power	Mounting	Head
CPD-3008 / 60	600 mm	Solar 5 W	Base, expansion screws	235 × 150 mm
CPD-3008 / 80	800 mm	Solar 5 W	Base, expansion screws	235 × 150 mm
CPD-3008 / 100	1000 mm	Solar 5 W	Base, expansion screws	235 × 150 mm

E-AblePower Technology

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TECHNICAL DATA

02

The parameter page gives luminous flux for two colour temperatures; the two are measured on the production sample. Net weight is quoted per unit, gross weight per carton of four.

Item	600 mm	800 mm	1000 mm
Electrical			
Rated power	5 W	5 W	5 W
Input voltage	DC 3.2 V	DC 3.2 V	DC 3.2 V
Solar panel	5 W / 5 V monocrystalline	5 W / 5 V monocrystalline	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	6 h by bright sunlight	6 h by bright sunlight	6 h by bright sunlight
Autonomy	3–5 rainy days	3–5 rainy days	3–5 rainy days
Optical			
Light source	2835 SMD LED, 30 pcs	2835 SMD LED, 30 pcs	2835 SMD LED, 30 pcs
Luminous flux	278 lm (3000K) / 304 lm (6500K)	278 lm (3000K) / 304 lm (6500K)	278 lm (3000K) / 304 lm (6500K)
Colour temperature	3000K – 6500K	3000K – 6500K	3000K – 6500K
CRI (Ra)	> 78	> 78	> 78
Beam angle	120°	120°	120°
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	235 × 150 mm	235 × 150 mm	235 × 150 mm
Overall size	235 × 150 × H600 mm	235 × 150 × H800 mm	235 × 150 × H1000 mm
Net weight	2.2 kg	3 kg	3.55 kg
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	3–5 m	3–5 m	3–5 m
Packing			
Outer carton	4 pcs, 560 × 340 × 340 mm	4 pcs, 760 × 340 × 340 mm	4 pcs, 960 × 340 × 340 mm
Gross weight	10.5 kg (outer, 4 pcs)	14.1 kg (outer, 4 pcs)	15.7 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.

VERSIONS



600 / 800 / 1000 mm



Head 235 × 150 mm

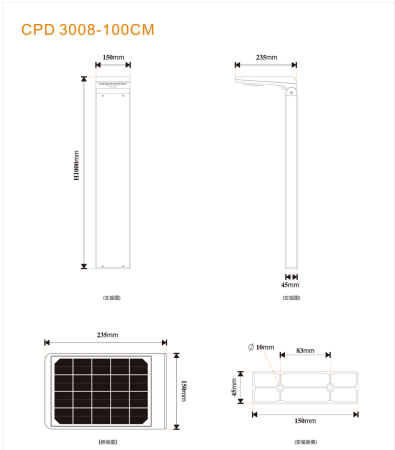
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DIMENSIONS

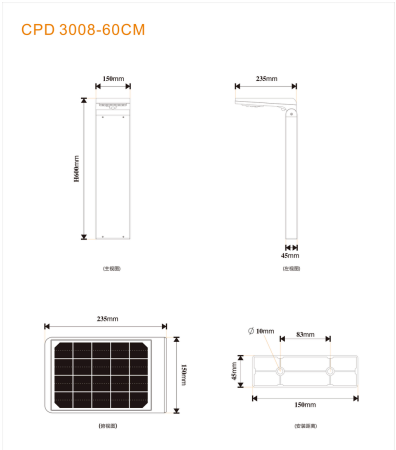
03

CPD 3008-100CM



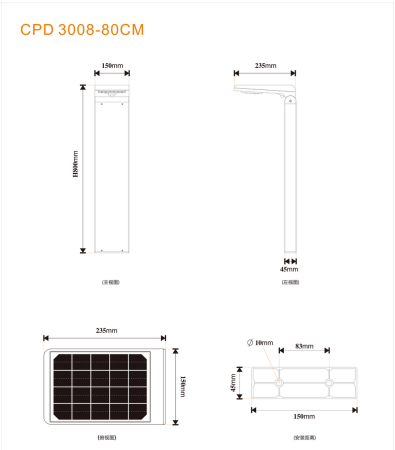
CPD-3008 / 100 · overall height 1000 mm

CPD 3008-60CM



CPD-3008 / 60 · overall height 600 mm

CPD 3008-80CM



CPD-3008 / 80 · overall height 800 mm

Head 235 × 150 mm on a 45 × 150 mm body; 600, 800 and 1000 mm overall heights. The base plate has two M10 holes at 83 mm centres, and the section is identical on all three units.

The base version is fixed to a concrete plinth or a paving base with two expansion screws. The three heights share the same 45 × 150 mm foot and the same two fixing points, so one unit can be replaced by another 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
- Body and base plate
- Expansion screws

BY THE PROJECT

- Concrete plinth or paving base

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CONSTRUCTION

04



3000K — warm white, 278 lm, Ra 78.24



6500K — white, 304 lm, Ra 78.32

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 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 head overhangs the 45 mm body, so the 120° lens throws light forward across the walkway instead of straight down onto the fixture's own foot. The PIR window sits beside the lens, at 2 m detection range.

WHAT TO SPECIFY

- **Height.** 600 / 800 / 1000 mm — the low unit for planting borders, the tall one where the head must clear shrubs and low hedges.
- **Fixing.** Base plate on a concrete plinth or a paving base; two M10 holes at 83 mm centres, so the fixing pattern is the same on every height.
- **Spacing.** 3–5 m along a path edge and 6–8 m on estate roads; the 120° distribution throws the light forward over the walkway.
- **Control.** PIR mode dims to 20 % when the walkway is empty and returns to 100 % on movement within 2 m; constant output is selectable.

2 years	CE, RoHS, IP65	PWM
WARRANTY	CERTIFICATIONS	CONTROLLER

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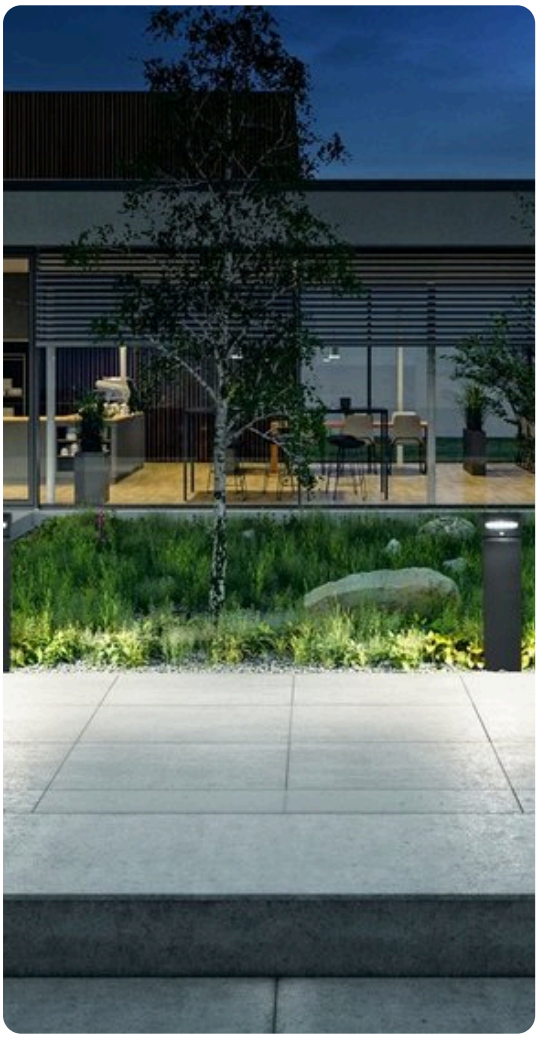
APPLICATIONS

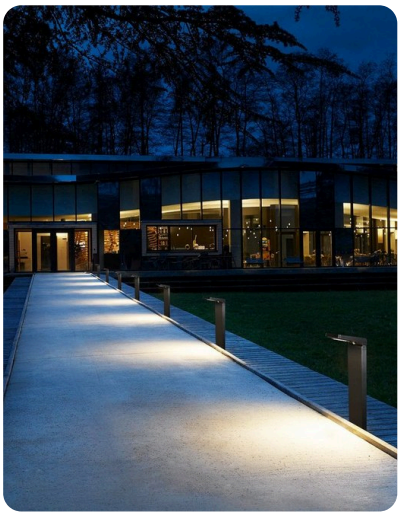
05

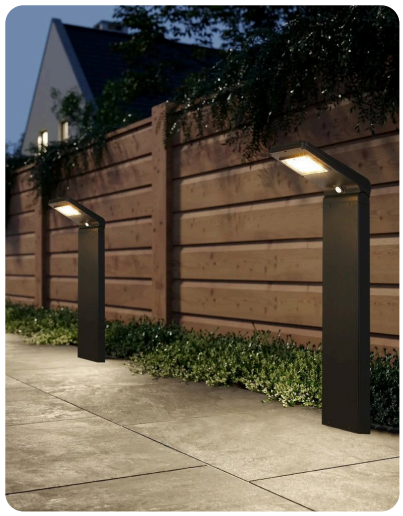
A 600 / 800 / 1000 mm bollard is a **pedestrian-scale** fixture: it lights the surface people walk on, not the space above it. That is why the format belongs to gardens and estate roads rather than to street lighting. The five settings below are the ones this model is ordered for most often.

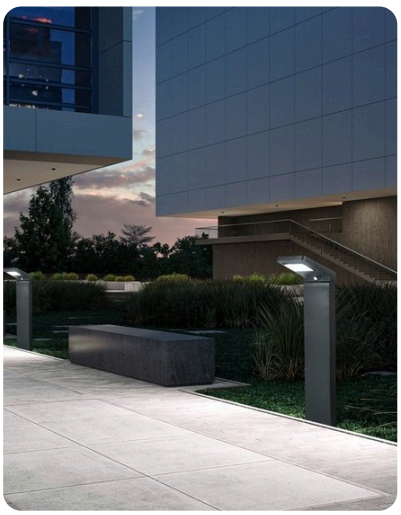
WHERE IT FITS

- **Villa gardens and courtyards** — line the path from gate to door at 3–4 m spacing; the 120° 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.