LISHUI E-ABLE POWER EQUIPMENT CO., LTD
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E-ABLE POWER / SOLAR LIGHTING / LUMINARA

Luminara

All-in-one solar street light · ST2 series · 6 models · 5,000–20,000 lm · IP65

Luminara is the E-ABLE POWER all-in-one solar street light built on the ST2 platform. Solar panel, LiFePO4 battery, MPPT controller, LED module and motion sensor sit in one die-cast aluminium body that clamps directly to the pole: no external panel bracket, no battery cabinet, no DC wiring on site.

Six steps cover 5,000 to 20,000 lm with 60 to 160 W of panel. The rotating holder sets the tilt on site, and the modular battery and LED blocks can be exchanged without replacing the luminaire.



6
models, 60–160 W panel

20,000
lm at ST2-160

160°×60°
bat-wing optic

5–7
rainy days autonomy

KEY FEATURES

01

Integrated body — Panel, battery, controller and LED in one aluminium housing; the pole carries the luminaire only.

Weather-aware control — The controller regulates discharge from recent weather, extending the nightly run time.

Battery indicator — Capacity lamps on the body show the state of charge at a glance.

Modular blocks — Battery and LED modules are replaceable for service without scrapping the luminaire.

Bat-wing lens — Patented lens with a 160° × 60° distribution for even coverage of the carriageway.

Rotating holder — The tilt is set to the road width at installation and locked with the clamp.

MODEL RANGE

Model	Luminous flux	Solar panel	Mounting height
ST2-30	5,000 lm	60 W / 5 V	5–6 m
ST2-40	6,000 lm	60 W / 5 V	6–7 m
ST2-60	10,000 lm	80 W / 18 V	6–8 m
ST2-80	13,000 lm	110 W / 18 V	8–10 m
ST2-100	15,000 lm	110 W / 18 V	8–10 m
ST2-160	20,000 lm	160 W / 18 V	10–12 m

Typical applications — Municipal roads · industrial parks · commercial boulevards · car parks · site perimeters

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TECHNICAL DATA

02

Model	ST2-30	ST2-40	ST2-60	ST2-80	ST2-100	ST2-160
Luminous flux	5,000 lm	6,000 lm	10,000 lm	13,000 lm	15,000 lm	20,000 lm
LED module	SMD3030 · 140	SMD3030 · 280	SMD3030 · 280	SMD3030 · 280	SMD3030 · 280	SMD5050 · 280
Solar panel	60 W / 5 V	60 W / 5 V	80 W / 18 V	110 W / 18 V	110 W / 18 V	160 W / 18 V
Battery	144 Wh / 45 Ah	240 Wh / 75 Ah	384 Wh / 120 Ah	512 Wh / 160 Ah	640 Wh / 200 Ah	896 Wh / 280 Ah
Pole top diameter	Ø58 mm	Ø58 mm	Ø58 mm	Ø76 mm	Ø76 mm	Ø76 mm
Mounting height	5–6 m	6–7 m	6–8 m	8–10 m	8–10 m	10–12 m

SERIES DATA, COMMON TO ALL MODELS

Luminous efficacy	**> 160 lm/W, complete luminaire**
Beam angle	**160° × 60°, bat-wing lens**
Colour temperature	**3000–7500 K**
CRI	**Ra ≥ 70**
Ingress protection	**IP65**
Lifespan	**50,000 h**
Operating temperature	**-20 °C to +60 °C (charge above 0 °C)**
Autonomy	**5–7 rainy days**
Warranty	**3 years**

- Values are reproduced from the ST2 factory specification, Solar Star Light – ST2.
- The model code is a series step; panel and battery of each step are given in the table above.
- Default remote mode is L; the selected mode is retained until it is changed.
- Packing: two sets per carton for ST2-30 to ST2-60, one set per carton for ST2-80 and ST2-100.

PACKING

Model	Qty per carton	Carton size	Gross weight
ST2-30	2 sets / ctn	1060 × 420 × 235 mm	18.92 kg
ST2-40	2 sets / ctn	1060 × 420 × 235 mm	22.72 kg
ST2-60	2 sets / ctn	1360 × 420 × 235 mm	28.10 kg
ST2-80	1 set / ctn	1360 × 575 × 200 mm	26.46 kg
ST2-100	1 set / ctn	1360 × 575 × 200 mm	26.46 kg

REMOTE CONTROL MODES

L	**100 % 2 h · 70 % 2 h · 30 % to dawn**
T	**100 % 3 h · 50 % 3 h · 30 % 2 h**
M	**100 % on movement · 20 % standby after 20 s**
U	**100 % 3 h · 50 % 3 h, highlight +30 %**

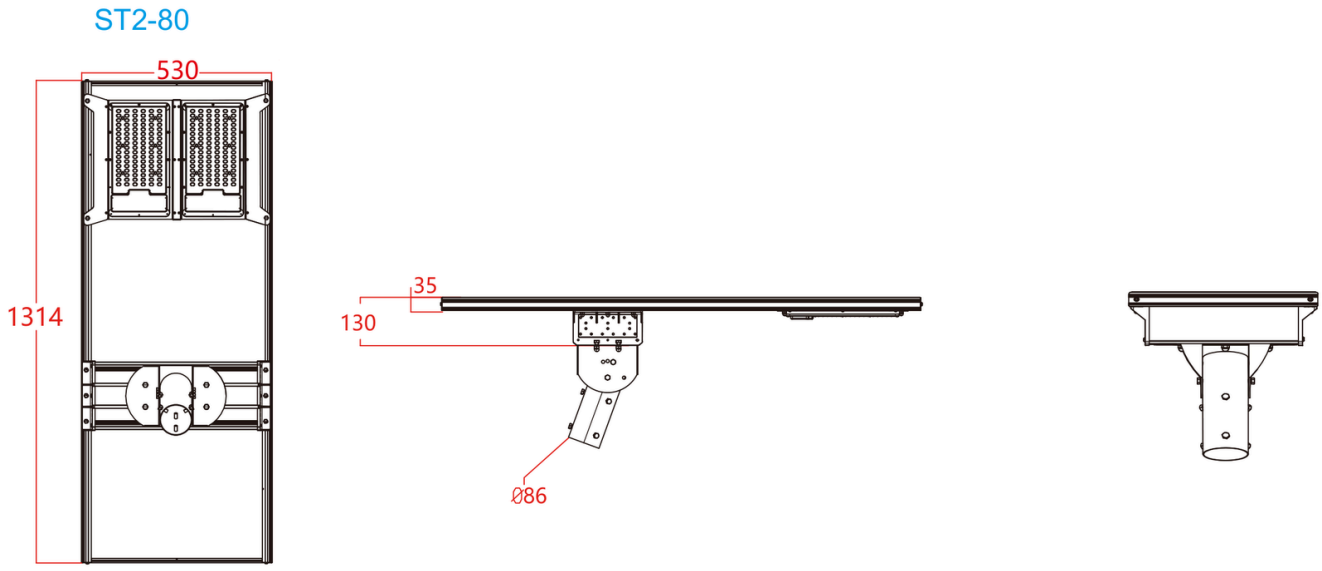
Modes are written to the controller by the handset; the selected mode is retained until it is changed.

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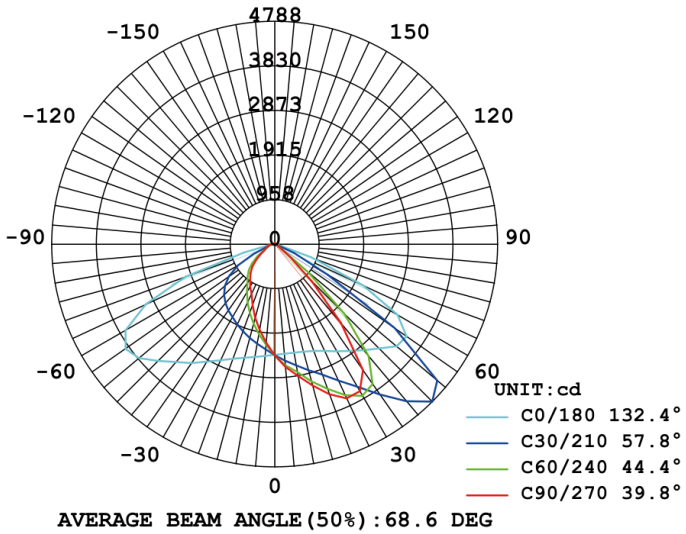
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DIMENSIONS & PHOTOMETRY

03



Dimension drawing — Factory artwork in millimetres; one representative model shown.



Luminous intensity distribution, C planes; average beam angle 68.6°.

Ø58 / 76 mm
Pole top diameter

20–40 m
Installation spacing

IP65
Ingress protection

COMPLIANCE AND PHOTOMETRY

RoHS and CE. IP65 applies to the complete luminaire. Photometric data reproduced from the factory light-distribution curve.

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INSTALLATION & COMMISSIONING

04

MOUNTING SEQUENCE

1. Check the pole top: Ø58 mm for ST2-30 to ST2-60, Ø76 mm for ST2-80 to ST2-160, plumb and stable.
2. Offer the luminaire over the pole top, set the rotating holder to the road width, and tighten the clamp.
3. Switch the luminaire on and read the battery capacity lamps on the body.
4. Set the mode with the handset, then leave the luminaire on charge for the first day.

COMMISSIONING CHECKLIST

- Waterproof switch on, battery indicator showing charge.
- Panel clean, tilt set for the latitude, no shade at 09:00, 12:00 and 15:00.
- Fixture locked on the pole: no rotation by hand, cable entry sealed.
- Mode selected with the handset and written to the controller; night test done.
- Model, serial number and commissioning date recorded for the warranty file.



Factory recommendation: mounting height per model. The final height follows the road class and the lighting calculation for the project.

SITE RULES

- Install on a dry day: a luminaire installed in rain cannot recover charge before its first night.
- The pole and its foundation are by others; the pole must be plumb and rated for the luminaire plus wind load.
- Storage over 6 months: recharge in sunlight or through the charging port before installation.

ORDERING AND SCOPE

Order by model code, for example ST2-80 or RSK-80, and state the pole top diameter and the mounting height. Poles, brackets and spare battery modules are quoted separately.

RoHS and CE. IP65 applies to the complete luminaire. Photometric data reproduced from the factory light-distribution curve.

Specifications are nominal and may change without notice. The contractual revision is the one confirmed in the order acknowledgement. Installation is summarised here; the factory manual covers the full procedure. Draft R02 for internal review.