

SURYA

SURYA 40

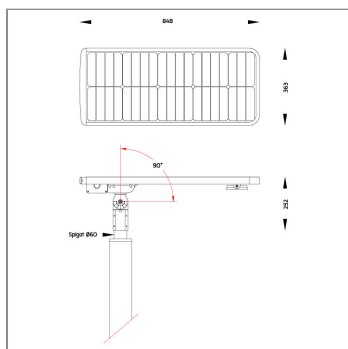
SOLAR



LAST UPDATE: 17-06-2026



The SURYA is an advanced all-in-one solar LED street light, designed to provide reliable and energy-efficient illumination for various outdoor environments. Available in five different wattages (40W, 60W and 100W), it caters to a wide range of applications. Featuring an intelligent control system with a built-in microwave motion sensor and timer dimming, it optimizes energy usage while ensuring consistent brightness. The luminaire includes an adjustable LED module, a tiltable mounting bracket, and a detachable battery for simplified installation, maintenance, and replacement. Constructed from high-quality aluminum alloy and polycarbonate optical lenses, the SURYA offers exceptional durability and weather resistance, making it ideal for long-term outdoor use. Designed for post-top mounting, this fixture is engineered to withstand harsh environmental conditions while delivering high-performance illumination.



Technical Data



Ordering Code :	S702-I-G-042-A3
Lamp :	LED
Beam :	T2 - Asymmetric Long Side Throw
CCT :	4000 K
CRI :	CRI >70
SDCM :	SDCM = 5
Luminaire Lumen :	7800 lm
Luminaire Wattage :	40 W
Efficacy :	195 lm/W
Ambient Temperature :	50°C
Lumen Maintenance	L70B10 >131,000 h (@25°C)
Controller :	Microwave Sensor & MPPT Controller
Input Voltage :	Solar
Net Weight :	8.90 kg.

Ordering code guide

XXXX-X-X-XXX-XX
A B C D E

- A Product Code
- B Reflector
- C Electrical Component
- D Lamp
- E Color



Icon definition

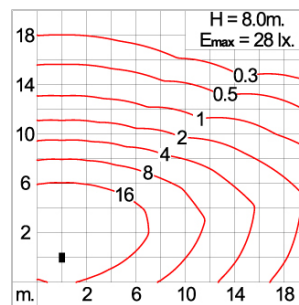
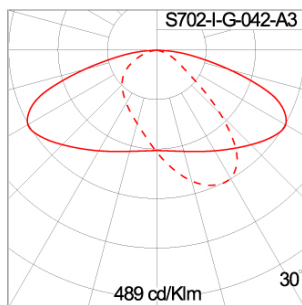
*Due to the constancy of product development, we reserve the right to alter all specification without prior notice.

Unilamp Co., Ltd.
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Specification

IEC Standard	IEC 60598-1 General Requirement IEC 60598-2-1 Fixed Luminaires
Protection	IP66 Class III
Luminaires Body Housing	Durable high-pressure die-cast aluminum alloy for excellent mechanical performance.
Coating Process	UV-stabilized polyester powder-coated luminaire, digitally cured at 200°C.
Lens	Advanced molded PC lens offering diverse light distribution patterns.
Adjustable Optic	Adjustable aiming mechanism with graduated scale for precision control.
Gasket	Advanced post-cured silicone gasket offering superior weather and thermal resistance [-40°C to +200°C].
External Screws	Durable stainless steel screws with anti-corrosion grease for extended lifespan.
Led	Premium LED module with top-tier chips, mounted on MCPCB for heat efficiency.
Enhanced Protection	Integrated differential pressure equalization element for optimal pressure balance and airflow.
Internal Wire	Reliable silicone-insulated tinned copper internal wire, designed for -40°C to +180°C.
Caution	Installation must be performed as per the provided installation instructions.
Feature	Solar Panel : Premium mono-crystalline solar panel ensuring enhanced energy efficiency. Battery : Long-lasting LiFePO4 battery with removable design for easy maintenance. Smart MPPT controller maximizing solar panel output and energy utilization. Sensor : Integrated microwave motion sensor with automatic dimming timer for energy savings.

Light Distribution



SURYA

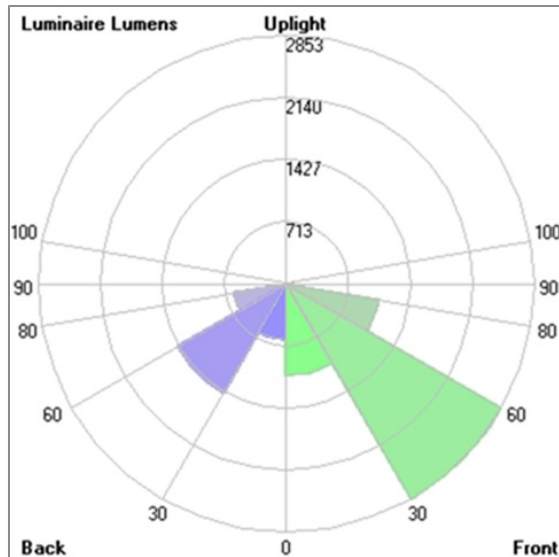
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Bug Report



Lum. Classification System (LCS)

LCS	Zone	%Lumens	%Lamp	%Lum
FL	[0-30]	1050.6	13.5	13.5
FM	[30-60]	2853.0	36.6	36.6
FH	[60-80]	1072.7	13.8	13.7
FVH	[80-90]	82.0	1.1	1.1
BL	[0-30]	639.8	8.2	8.2
BM	[30-60]	1446.7	18.5	18.5
BH	[60-80]	608.5	7.8	7.8
BVH	[80-90]	47.7	0.6	0.6
UL	[90-100]	2.6	0.0	0.0
UH	[100-180]	0.0	0.0	0.0
Total		7803.6	100.1	100.0
BUG Rating	B2-U1-G2			

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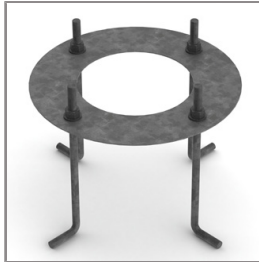
Accessories



Ordering Code:
AUN-ACB-0009-00
Anchor bolt kit, pole
diameter 114 and 114/140,
galvanized steel pole



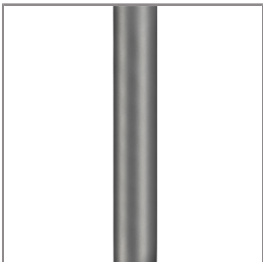
Ordering Code:
AUN-ACB-0008-00
Anchor bolt kit, pole
diameter 102mm and
151x102mm, galvanized
steel pole



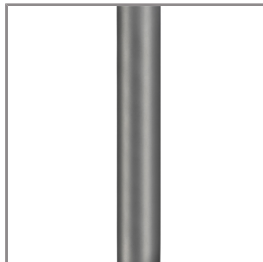
Ordering Code:
AUN-ACB-0005-00
Anchor bolt kit, aluminum
pole



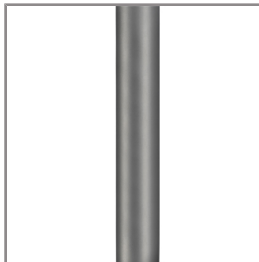
Ordering Code:
ATR-CTR-0003-00
Remote controller for solar
street light



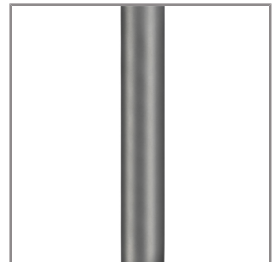
Ordering Code:
AUN-POL-0209-XX
Cylindrical aluminum pole,
diameter 105mm, H=
3000mm, spigot 60mm,
for solar street light



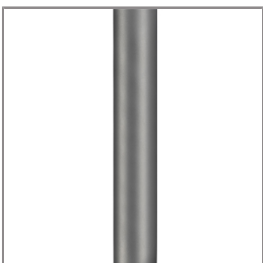
Ordering Code:
AUN-POL-0210-XX
Cylindrical aluminum pole,
diameter 105mm, H=
4000mm, spigot 60mm,
for solar street light



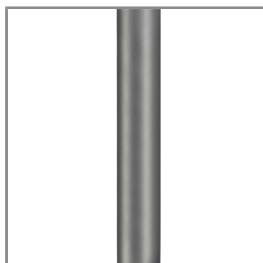
Ordering Code:
AUN-POL-0211-XX
Cylindrical hot-dip
galvanized steel pole,
diameter 102mm, H=
5000mm, spigot 60mm,
for solar street light



Ordering Code:
AUN-POL-0212-XX
Cylindrical hot-dip
galvanized steel pole,
diameter 102mm, H=
6000mm, spigot 60mm,
for solar street light



Ordering Code:
AUN-POL-0213-XX
Cylindrical hot-dip
galvanized steel pole,
stepped diameter
114/102mm, H= 7000mm,
spigot 60mm, for solar
street light



Ordering Code:
AUN-POL-0214-XX
Cylindrical hot-dip
galvanized steel pole,
stepped diameter
114/102mm, H= 8000mm,
spigot 60mm, for solar
street light

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