

# LED SOLAR STREET LIGHT

## ELITE II-BOT



**Unilumin**

TOGETHER, FOR A BRIGHTER FUTURE



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## ELite II-Bot Series

Elite II-Bot is an innovative solar light crafted with high-strength aluminum alloy, ensuring unmatched durability and reliability. What makes it truly outstanding is its cutting-edge self-cleaning function. This revolutionary technology effortlessly removes dust, bird droppings, and debris from its solar panels, guaranteeing consistently superior lighting performance.

### Features & Benefits

1. High-strength aluminum alloy construction, robust and reliable
2. High-efficient monocrystalline silicon solar panels for fast-charging
3. LiFePO<sub>4</sub> battery for longer service life, safety, and stability
4. Various optical lenses available for flexible lighting options
5. High-quality LEDs with up to 180lm/W luminous efficacy
6. 2~3 overcast days' autonomy for uninterrupted lighting
7. Innovative self-cleaning function reduces maintenance demands
8. Compatible with Photocontrol, PIR/Microwave control
9. Post-top and side entry installation options
10. Remote control for easy adjustment of working modes

### Application



Urban &  
Residential  
Street



Pedestrian  
Path



Park &  
Square



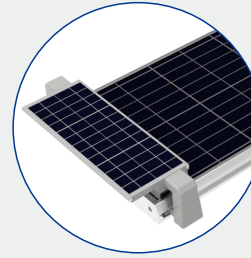
Rural  
Road



Bridge



Seaside

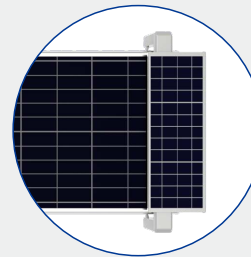
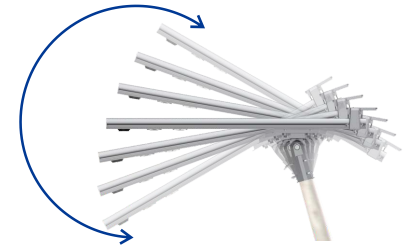


### Patented self-cleaning function

Fewer maintenance demands  
Self-cleaning 3 times daily with 3 cycles each time

### ± 70° mounting angle range

Ideal for regions that require solar  
panel tilt for a better charging efficiency



### Monocrystalline solar panel

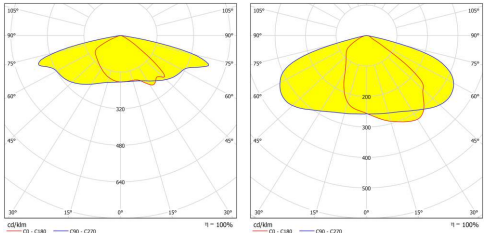
Maximize energy conversion and optimize  
charging capabilities

### Intelligent and sustainable

Intelligent charge and discharge management  
Motion sensor for longer working hours



Light Distributions

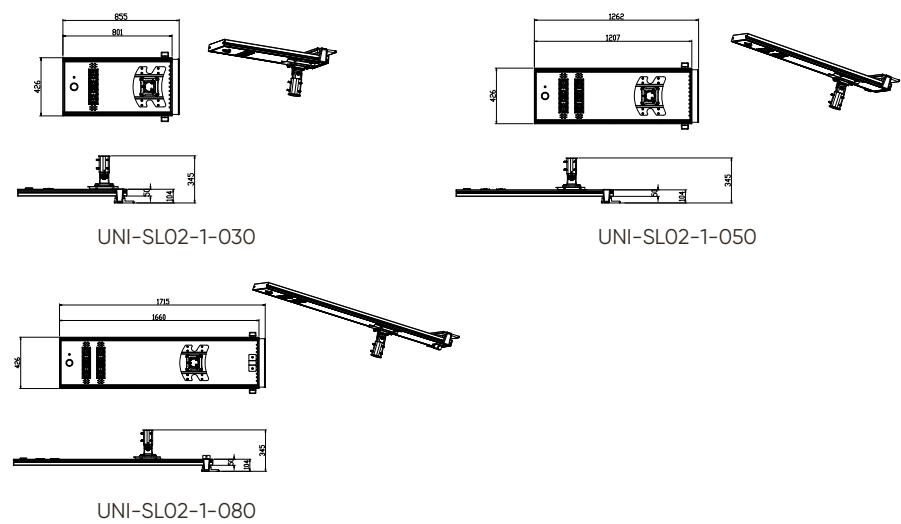


Type II (UNI-728)      Type II (UNI-838)

5050 Light Source

Power(W)	LED QTY(pcs)	Light Distribution	5700K Ra70@Tq=25°C	
			Luminaire Efficiency	Luminous Flux
30	20	UNI-728 UNI-838	180 lm/W	5400 lm
50	32			9000 lm
80	48			14400 lm

Dimensions



Parameters



Product Model	UNI-SL02-1-030	UNI-SL02-1-050	UNI-SL02-1-080
System Voltage	12V	24V	24V
Monocrystalline Solar Panel	50W/18V	80W/36V	120W/36V
LiFePO4 Battery	12.8V/24AH	25.6V/18AH	25.6V/30AH
Charge Time (H)	6.2	5.8	6.4
Full Power Working Time (H)	10.2	9.2	9.6
System Power (W)	30	50	80
Sensor Distance	Infrared Induction: Height=6m, Width=7m Microwave Induction: Height=8m, Width=10m		
Luminaire Efficiency (Tq=25°C)	180lm/W		
Luminous Flux (lm)	5400	9000	14400
Default Lighting Mode*	When people approach: 2H*100%+3H*50%+6H*20%+1H*30%, When nobody: 20% with motion sensor		
Overcast Days	2-3 Days		
CCT	3000K/3500K/4000K/5000K/5700K/6500K		
SDCM	≤5		
CRI	Ra>70		
Housing Materials	Aluminum Housing + Extruded Aluminum Frame + PC		
IP/IK	IP65 / IK08(Solar panel: IK07)		
Spigot Diameter (mm)	Φ 48 / Φ 60		
Luminaire Dimension (mm)	801×506×125	1208×506×125	1660×506×125
Luminaire Packing Dimension (mm)	935×575×225	1345×575×225	1795×575×225
Net Weight (kg)	18±0.2	23±0.2	28±0.2
Gross Weight (kg)	21±0.2	26±0.2	31±0.2

Note: The tolerance of Luminous Flux is ±7%



## Self Cleaning-Keep High Charging Efficiency



One-click turn on/off the self-cleaning function



## Self-cleaning three times daily with three cycles each time

### · First self-cleaning

After dawn, when the sunlight intensity is sufficient to meet the solar panel

### · Second self-cleaning

Start 4 hours after the first cleaning

### · Third self-cleaning

When the sunlight intensity is insufficient to meet the solar panel

