Unilumin

LED
SOLAR STREET LIGHT

ELITE Ⅲ



UNILUMIN GROUP CO ., LTD

Unilumin

TOGETHER, FOR A BRIGHTER FUTURE

UNILUMIN GROUP CO ., LTD

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SunMaster ELite Ⅲ Series

SunMaster ELite Ⅲ eries combines high-efficiency monocrystalline solar panels with a compact, low-maintenance design. Its wide power range (20W-100W) and adjustable LED modules make it ideal for multi-lane secondary roads, providing up to 21000lm of clear, targeted light. With advanced smart features like radar and infrared sensors and the option for 4G/Lora control, it offers easy-to-manage, eco-friendly lighting.

Features & Benefits

1. Highly efficient with 210lm/W efficacy
2. Intelligent charge and discharge management, 365 day light, 1~2 overcast days autonomy
3. High-quality monocrystalline solar panel
4. LiFePO4 battery with 2000 lifecycles
5. Easy access to battery compartment
6. Equipped with microwave radar or infrared sensors as standard
7. ±60° optical module mounting angles adjustable
8. Optional: adjustable LED module quantity

Application

Pedestrian Path | Park & Square | Rural Road | Secondary Roads | Byroad

Hassle-free Maintenance

Easy access to the battery compartment
for quick and convenient maintenance



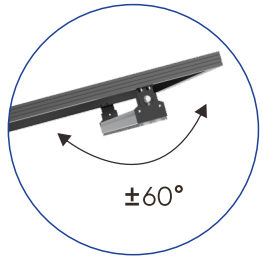


High Luminous Efficacy Long-lasting Performance

20W-100W up to 210lm/W
Suitable for three-lane secondary roads

±60° LED Module Angle Adjustable

Achieve the ideal lighting angle to suit
all latitudes globally



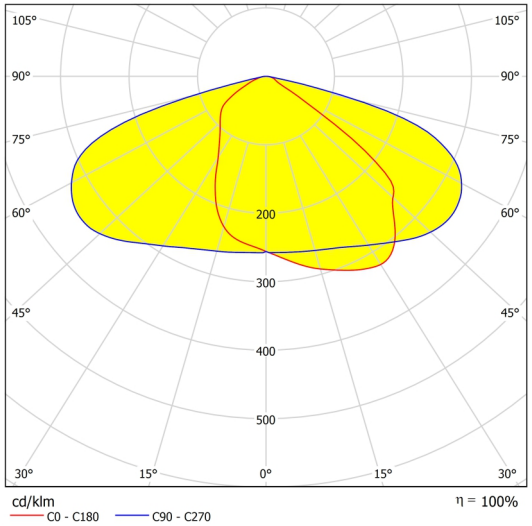


Intelligent Illumination

Standard microwave radar or infrared sensors
Optional 4G/Lora remote control solutions

Default Lighting Mode*:
When people approach: 2H*100%+3H*50%+6H*20%+1H*30%
When nobody: 20% (Designed for 40-50% of busy time per hour)

Light Distributions



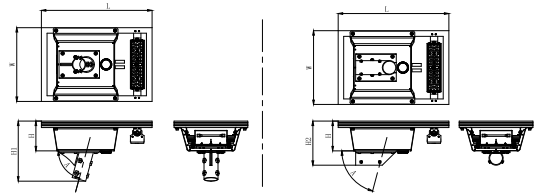
Type Ⅱ (UNI-838-10)

5050 Light Source

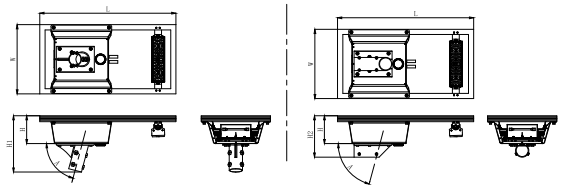
Power (W)	LED QTY (pcs)	Light Distribution	5000K Ra70@Tq=25℃	
			Luminaire Efficiency	Luminous Flux
20	48	UNI-838-10 (T2S)	210 lm/W	4200 lm
30	48			6300 lm
40	48			8400 lm
50	48			10500 lm
60	48			12600 lm
80	96			16800 lm
100	96			21000 lm

The luminaire efficacies are the typical values, ±7% tolerance is reserved.

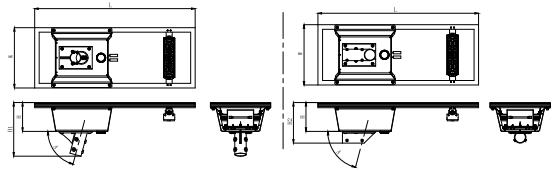
Dimensions



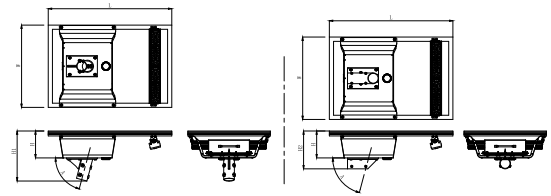
20W / 30W



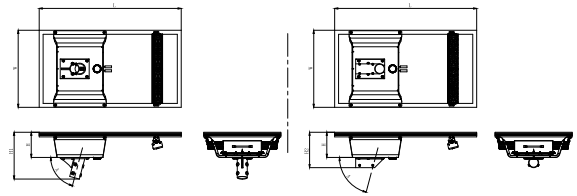
40W / 50W



60W



80W



100W

Parameters

Product Model	UNI-SL05 -1-20	UNI-SL05 -2-30	UNI-SL05 -3-40	UNI-SL05 -4-50	UNI-SL05 -5-60	UNI-SL05 -6-80	UNI-SL05 -7-100
System Voltage	12V	12V	12V	12V	12V	12V	24V
Monocrystalline Solar Panel	40W/18V	40W/18V	60W/18V	60W/18V	80W/18V	100W/18V	120W/36V
$LiFePO_4$ Battery	12.8V/15AH	12.8V/15AH	12.8V/30AH	12.8V/30AH	12.8V/45AH	12.8V/60AH	25.6V/30AH
Full Power Working Time (H)	9.6	6.4	9.6	7.7	9.6	9.6	7.7
System Power (W)	20	30	40	50	60	80	100
Hybrid	Battery						
Luminaire Efficiency (Tq=25℃)	210lm/W@4000K						
Luminous Flux (lm)	4200	6300	8400	10500	12600	16800	21000
Default Lighting Mode*	Busy: 2H100%, 3H 50%, 6H20% , 1H30%; Idle: 20% (Designed for 40-50% busy time per hour)						
Overcast Days	1-2 Overcast Days + Intelligent battery life (Reference sunshine hours 5 KWH/m^2/day)						
CCT	4000K (3000K/4000K/5000K/6500K)						
CRI	Ra>70						
Charge Temperature	0℃~50℃						
Discharge Temperature	-10℃~55℃						
Storage Temperature	0℃~45℃						
Warranty	3 years						
Housing Materials	SPCC Housing + Extruded Aluminum Frame + PC						
Finishing	Black RAL9004						
IP/IK	IP66/IK08 (Solar panel: IK07)						
Insulation Class	Class Ⅲ						
Spigot Diameter (mm)	Φ60						
Installation Height (m)	4~6	4~6	4~6	4~6	5~7	6~8	6~8
Wind-Resistance (km/h)	130						
Luminaire Dimension (mm)	600×400×325	600×400×325	786×400×325	786×400×325	1065×400×355	880×586×355	1080×586×355

Note: The tolerance of Luminous Flux is ±7%











