



INTELLIGENT & CONNECTED SOLAR STREET LIGHT



# UP 1

MADE IN FRANCE



l'intelligence  
solaire solar  
intelligence

# UP1



WARRANTY  
6 YEARS

MADE IN FRANCE



FUNCTION  
ANTI BLACKOUT



COMMUNICATION &  
REMOTE SUPERVISION



PLUG & PLAY



UNIQUE RESISTANCE  
TO EXTREME CLIMATES

The UP1 is a compact, reliable and robust solar lighting solution that's quick and easy to install (set-up takes less than 15 minutes). This high-performance, connected device is particularly suited to lighting pedestrian walkways, cycle paths, parks or residential areas.

This product is controlled by a smartphone monitoring application, SunnAPP, with a motion detection option.



1

## TILTABLE SOLAR PANELS

*Designed for temperate zones  
Self-cleaning coating  
No dust accumulation*

2

## HIGH-PERFORMANCE NiMH BATTERY

*Resistant to extreme conditions  
Long lifespan (average of 12 years)*

3

## SUNNACORE

*Electronic board with Bluetooth connection  
Intelligent energy management system that maximizes battery life*

4

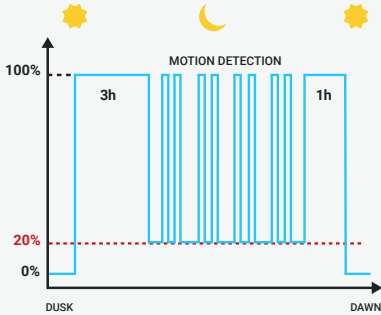
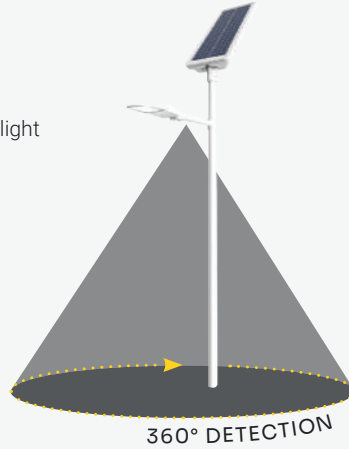
## HIGH-EFFICIENCY LED LANTERN

*Up to 165 lm/W*

## MOTION DETECTOR

(optional)

- ☑ Lighting or increase in intensity upon detecting movement around the street light
- ☑ Preserves battery life
- ☑ Optimal energy consumption
- ☑ No light pollution
- ☑ Enhanced security



To ensure minimum visibility for all, whatever the time of day, while maximizing energy savings, Sunna Design offers an intelligent detection system.

Based on infrared motion sensors, it easily detects pedestrians, cyclists and slow-moving cars.

A solution that can achieve energy savings of up to 80% in low-traffic areas!

## DATA SUPERVISION

### ☑ SUNNAPP LOCAL POINT-TO-POINT MONITORING

(included)



Install your street lights and interact with your products via long-range Bluetooth.



Installation and commissioning support



Tracking and performance history



Registration and management of the park



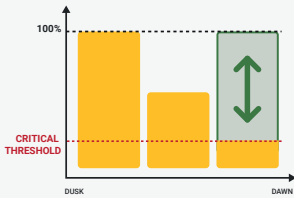
Management of lighting profiles

## ■ SMART ENERGY MANAGEMENT



Integrated into UP products, **SunnaCore** features advanced **autonomy management**, enabling the battery to provide **optimal service 365 nights a year**, even during periods of low solar irradiation.

## ■ CUSTOMIZED LIGHTING PROFILES



Our lighting profiles are optimized based on daily sunlight.

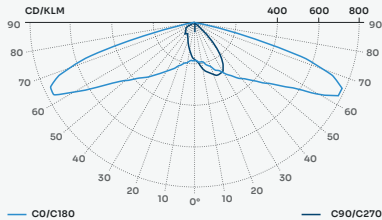
Based on previous days' weather data and the energy available in the battery, our system automatically regulates light intensity to prevent outages and optimize lighting availability.

## ■ COLOR TEMPERATURES

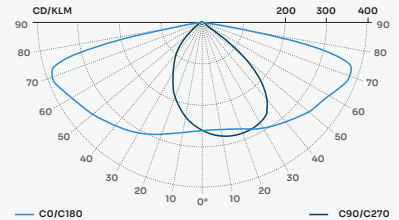


## ■ LIGHT DISTRIBUTION

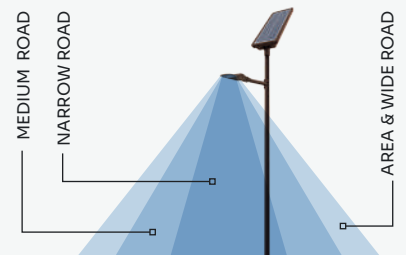
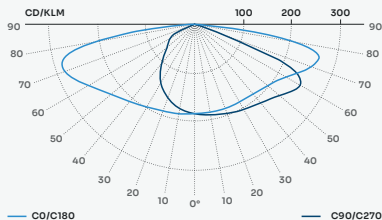
### NARROW ROAD



### MEDIUM ROAD



### AREA & WIDE ROAD



IP65	IK07(PV)	IK08	CE
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LIGHTING	LED Module	High-efficiency LEDs - Multichip technology (IP 67)
	Luminous Flux	1,650 to 3,300* lumens
	Power consumption	10 W to 20* W
	Luminous efficiency	Up to 165 lm/W (4000 K)
	Color temperature	2200 K, 2700 K, 3000 K, 4000 K
	Lifetime	110,000 hours
	Certificates	EN 60598-1; EN 62471
SOLAR PANELS	Technology	Photovoltaic module (Monocrystalline silicon)
	Power	50 Wc
	Specifications electrical per panel	Isc = 2,19 A / Voc = 24,17 V / Imp = 2,01 A / Vmp = 19,9 V
	Panel dimensions	1000 x 350 mm (39.37 x 13.77 in)
	Lifetime	> 20 years at 80% of initial power
	Tilt	5°, 25°, 50°
	Structure	Frameless
BATTERY	Certificates	IEC 61215; IEC 61730 I and II
	Battery technology	NiMH Battery (high resistance to extreme temperatures, maintenance-free)
	Voltage	12V
	Capacity	120 Wh
	Operating temperature	-40°C to +70°C (-40°F to 158°F)
	Lifetime	12 years
ELECTRONICS	Certificates	EN 62133
	Technology	SunnaCore®
	Communication	Bluetooth
	Input voltage	24V
	Open circuit voltage	45V
	Max charge and discharge current	4.2A
	Electrical protection	Electronic fuse
	Water resistance	IP65 with waterproof connectors
GENERAL	Certificates	CE; EN61000
	Materials	Body ABS PMMA (70% recycled) and aluminum
	SCx	0,40 m2 (solar panel tilt angle 50°)
	Mounting	Solar generator: Top-mounted Ø60 mm; Luminaire: bracket** or horizontal bracket
	Weight (excluding pole)	Solar generator : 13.5kg / Lantern : 1.5kg
Options	Motion detector (detection radius: 3 to 5m depending on installation height) / Anti-theft screws / Local supervision	

\* Available with motion detection \*\* Mounting bracket not supplied

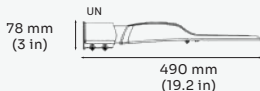
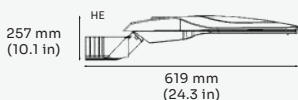
## SOLAR MOTOR CODIFICATION

CODE	MOTION DETECTOR		LIGHTING PROFILE				COLOR (RAL)
SD4149	0	No	0A	100% (3h) / 40% / 100% (1h)			0 White (RAL 9010)
	1	Yes	0B	60% (dusk - dawn)			1 Grey brown (RAL 8019)
			0C	100% (3h) / 20% + detection 100% / 100% (1h)			2 Noir (RAL 9005)
			0E	100% (2h) / 30% / 100% (1h)			
			0G	100% (2h) / 20% + detection 100% / 100% (1h)			
			0L	20% + detection 100%			
			0M	100% (5h) / 40% / 100% (1h)			
			0N	100% (6h) / 0%			
			0Q	50% (3h) / 15% / 50% (1h)			
			0R	[50% (3h) / 12% / 50% (1h)] + detection 100%			
			0T	50% (4h) / 0% / 50% (1h)			
			AC	20% + detection 100% (dusk - 23h) / 0% / 20% + detection 100% (5h - dawn)			
			AH	0% + detection 100%			
			AM	100% (dusk - 8:30PM) / 0% / 50% (5AM - dawn - 30min) / 100% (dawn - 30min - dawn)			
			AT	100% (4h) / 0%			
			AU	100% (dusk - 00:00) / 0% / 100% (5AM - dawn)			
			BB	100% (dusk - 11:30PM) / 0% / 100% (5:30AM - dawn)			
			BD	100% (dusk - 10PM) / 0% / 100% (6:30AM - dawn)			
			BG	100% (dusk - dusk+2h) / 50% (dusk+2h - 11:30PM) / 0% (11:30PM - 5:30AM) / 50% (5:30AM - dawn-1h) / 100% (dawn-1h-dawn)			
			BJ	50% (2h30) + detection 100% / 0% / 50% (2h30) + detection 100%			
BK	100% (2h) / 30% (3h) / 0% / 30% (1h) / 100% (1h)						
BS	100% (3h) / 0% / 100% (2h)						

## LANTERN CODIFICATION

CODE	LANTERN	POWER NOMINAL	COLORS T°	MOTION DETECTOR	LED CODE LANTERN	LANTERN CONNECTOR	COLOR (RAL)	OPTICS	IRC	
RL	1	He	02 20W	1 2200K	0 No	X X	0 Single	0 White (RAL 9010)	0 Area & Wide Road	7 70
				2 2700K	1 Yes			1 Grey brown (RAL 8019)	1 Medium Road	
				3 3000K				2 Black (RAL 9005)	2 Narrow Road	
				4 4000K						

## DIMENSIONS



## COLORS



RAL 9010  
White



RAL 8019  
Grey brown



RAL 9005  
Black

PARC & RECREATION



APPLICATIONS



PEDESTRIAN PATH

VACATION VILLAGE





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17 rue du Commandant Charcot  
33290 Blanquefort - FRANCE



[contact@sunna-design.com](mailto:contact@sunna-design.com)



[sunna-design.com](https://sunna-design.com)



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