INTELLIGENT & CONNECTED SOLAR STREET LIGHT

UP2

MADE IN FRANCE | SUNNA DESIGN

l'intelligence
solaire solar
intelligence

UP2

WARRANTY 6 YEARS

MADE IN FRANCE

FUNCTION ANTI BLACKOUT

COMMUNICATION & REMOTE SUPERVISION

PLUG & PLAY

UNIQUE RESISTANCE TO EXTREME CLIMATES

UP2 is a reliable and robust all-in-one solar lighting solution. Its «plug and play» installation (easy and quick to implement in less than 15 minutes), unparalleled performance, and connected services make it the best offer on the market.

The product is controlled via an internally developed monitoring service, SunnAPP, and offers motion detection or remote supervision.

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
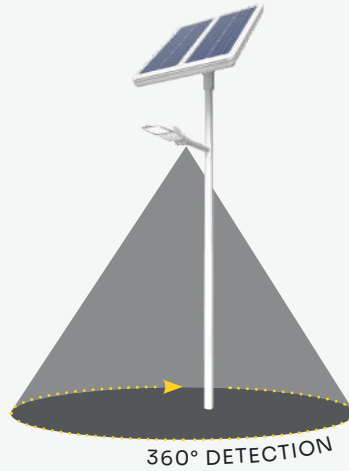
4

HIGH-EFFICIENCY LED LANTERN
Up to 166 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

360° DETECTION

DATA SUPERVISION

☑ LOCAL SUNNAPP
(included)

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

Installation and commissioning support
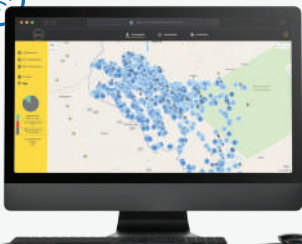
Tracking and performance history

Registration and management of the park

Management of lighting profiles
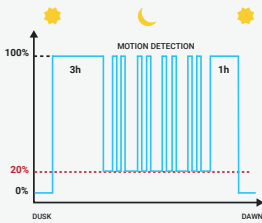
☑ REMOTE SUNNA CLOUD
(optional)

Monitor your street lights in real-time and perform preventive or curative maintenance on your products.

SMART ENERGY MANAGEMENT

Integrated into the UP range, the **SunnaCore** includes an advanced **autonomy management** feature that ensures enough energy in the battery to provide **optimal service 365 nights a year**, even in periods of low solar irradiation.

CUSTOMIZED LIGHTING PROFILES

MOTION DETECTION
100%
3h   1h
20%
0%
DUSK   DAWN

Our lighting profiles are optimized based on daily sunlight.
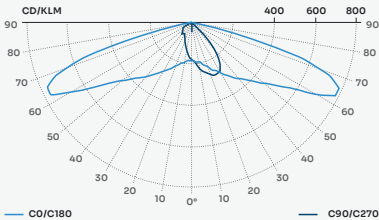
Based on previous days' weather data and the available battery capacity, our system automatically regulates light intensity to prevent outages and optimize lighting availability.
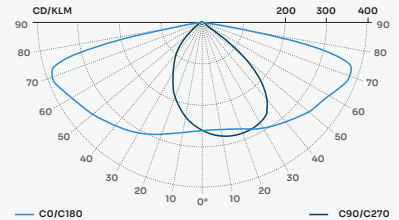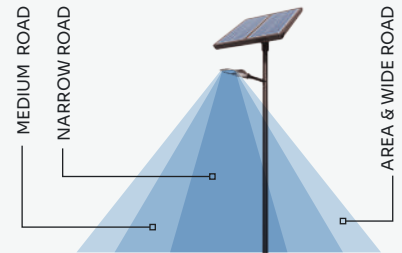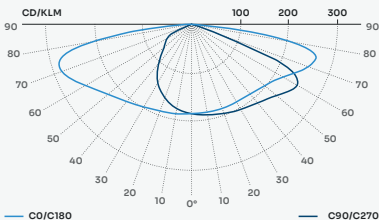
COLOR TEMPERATURES

2200K   2700K   3000K   4000K   5700K

LIGHT DISTRIBUTION

☑ NARROW ROAD

☑ MEDIUM ROAD

☑ AREA & WIDE ROAD

MEDIUM ROAD   NARROW ROAD   AREA & WIDE ROAD

		IP65	IKO7(PV)	IKO8	CE

LIGHTING

LED Module	High-efficiency LEDs - Multichip technology (IP 67)
Luminous Flux	3,320 to 6,640* lumens
Power consumption	20 W to 40* W
Luminous efficiency *(after optical losses)*	Up to 166 lm/W (4000 K / 5700 K)
Color temperature	2200 K, 2700 K, 3000 K, 4000 K & 5700 K
Lifetime	100,000 hours certified by IESNA LM-90 B-50
Certificates	EN 13032-1; EN 13032-2; EN 13201; EN 60598-1; EN 62471

SOLAR PANELS

Technology	Photovoltaic module (Monocrystalline silicon)
Power	80 Wc (2x40 Wc)
Specifications electrical per panel	VOC : 23,4 V / VMPP : 18,72 V / ISC : 2,34 A / IMPP : 2,14 A / 36 cells
Panel dimensions	776 x 350 mm (30,55 x 13,77 in) (x2 solar panels)
Lifetime	> 25 years at 80% of initial power
Tilt	10°, 25°, 40°, 50°
Structure	Frameless
Certificates	IEC 61215; IEC 61730 I and II

BATTERY

Battery technology	NiMH Battery (High temperature resistant, maintenance-free)
Voltage	24V
Capacity	240 Wh
Operating temperature	-40°C to +70°C (-40°F to 158°F)
Lifetime	12 years
Certificates	EN 62133

ELECTRONICS

Technology	SunnaCore©
Communication	Bluetooth
Input voltage	24V
Open circuit voltage	45V
Max charge and discharge current	5A
Wiring	Marine quality used for all applications
Electrical protection	Electronic fuse
Lifetime	12 years
Water resistance	IP65 with waterproof connectors
Certificates	CE; EN61000; EN61547; EN55015; EN62493; EN 62479 EN300328; EN 301489-1

GENERAL

Materials	Body ABS PMMA (100% recycled) and aluminum
SCx	0.59 m² (solar panel tilt angle 50°)
Mounting	Solar generator: Top-mounted: Outside diameter Ø50.8 mm; Luminaire: bracket** or horizontal bracket
Weight *(excluding pole)*	23 kg
Options	Motion detector (detection range: 3 to 5m depending on installation height) / Anti-theft screws / Anti-bird picks Local or remote supervision

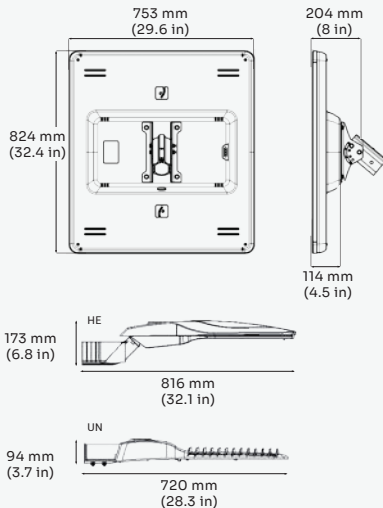*Available with motion detection ** Mounting bracket not supplied*

◼ SOLAR MOTOR CODIFICATION

CODE	MOTION DETECTOR			LIGHTING PROFILE	COLOR (RAL)	
SD4249	**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**	Black (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	Un		**2**	2700K	**1**	Yes					**1**	Grey brown (RAL 8019)	**1**	Medium Road		
				3	3000K							**2**	Black (RAL 9005)	**2**	Narrow Road		
				4	4000K												
				0	5700K												

◼ DIMENSIONS

753 mm
(29.6 in)

204 mm
(8 in)

824 mm
(32.4 in)

114 mm
(4.5 in)

HE
173 mm
(6.8 in)

816 mm
(32.1 in)

UN
94 mm
(3.7 in)

720 mm
(28.3 in)

◼ COLORS

RAL 9010
White

RAL 8019
Grey brown

RAL 9005
Black

PARC & RECREATION

RESIDENTIAL

PEDESTRIAN PATH

2023

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