INTELLIGENT & CONNECTED SOLAR STREET LIGHT

UP4

MADE IN FRANCE

ˢunnα
DESIGN

l'intelligence
solaire solar
intelligence

UP4

WARRANTY 6 YEARS

MADE IN FRANCE

FUNCTION ANTI BLACKOUT

COMMUNICATION & SUPERVISION À DISTANCE

PLUG & PLAY

RÉSISTANCE UNIQUE AUX CLIMATS EXTREMES

The UP4 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
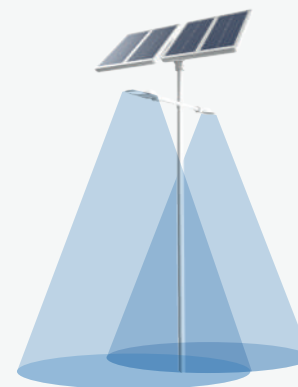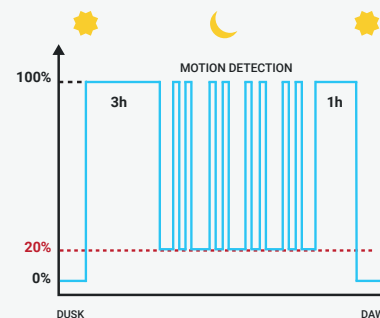
4

HIGH-EFFICIENCY LED LANTERN
Up to 165 lm/W

LIGHTING PERFORMANCE

> Maximize the power of your lighting

> Enjoy uncompromising single or lighting without compromise

> Ideal for lighting roads and parking lots

360° DETECTION AVAILABLE ONLY WITH UP4 DUAL

MOTION DETECTION

100%

3h   1h

20%

0%

DUSK   DAWN

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.
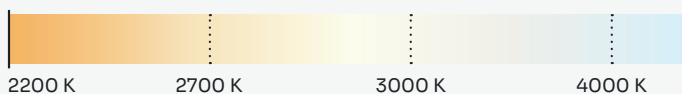
CUSTOMIZED LIGHTING PROFILES
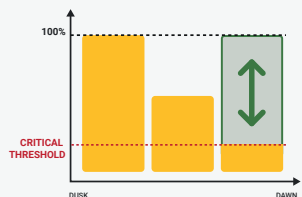
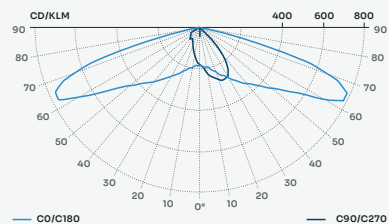Our lighting profiles are optimized based on daily sunlight.

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.
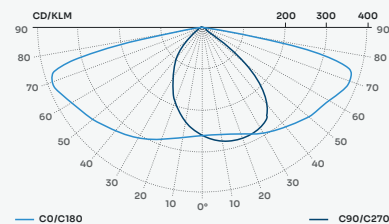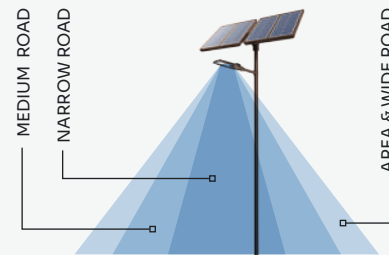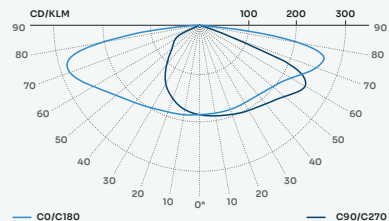
COLOR TEMPERATURES

2200 K   2700 K   3000 K   4000 K

LIGHT DISTRIBUTION

☑ NARROW ROAD

☑ MEDIUM ROAD

☑ AREA & WIDE ROAD

IP65	IKO7(PV)	IKO8	CE

LIGHTING	LED Module	High-efficiency LEDs - Multichip technology (IP 67)
	Luminous Flux	1 lantern: 7,200 lm / 2 lanterns: 7200 to 14,400* lumens
	Power consumption	1 lantern: 40 W / 2 lanterns: 40 W to 80* 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	160 Wc (4x40 Wc)
	Specifications electrical per panel	Isc = 2,19 A / Voc = 24,17 V / Imp = 2,01 A / Vmp = 19,9 V
	Panel dimensions	776 x 350 mm (30,55 x 13,77 in) (x4 solar panels)
	Lifetime	> 20 years at 80% of initial power
	Tilt	0°, 20°, 30°, 45°
	Structure	Frameless
	Certificates	IEC 61215; IEC 61730 I and II
BATTERY	Battery technology	NiMH Battery (high resistance to extreme temperatures, maintenance-free)
	Voltage	24V
	Capacity	480 Wh (2x240 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	4.2A
	Electrical protection	Electronic fuse
	Water resistance	IP65 with waterproof connectors
	Certificates	CE; EN61000
GENERAL	Materials	Body ABS PMMA (70% recycled) and aluminum
	SCx	1.11m² (solar panel tilt angle 45°)
	Mounting	Solar generator: Top-mounted Ø76 mm; Luminaire: bracket** or horizontal bracket
	Weight *(excluding pole)*	Solar generator: 43kg / 1 lantern: 1.5kg or 2 lanterns: 3kg
	Options	Anti-theft screws / Anti-bird picks / Local or remote supervision / Motion detector only for UP4 Dual (Detection range: 3 to 5m depending on installation height)

** Available with motion detection with UP4 Dual ** Mounting bracket not supplied*

■ SOLAR MOTOR CODIFICATION

CODE	MOTION DETECTOR *		LIGHTING PROFILE		COLOR (RAL)	
SD4289	0	No	0A	100% (3h) / 40% / 100% (1h)	0	White (RAL 9010)
			0B	60% (dusk - dawn)	1	Gris brown (RAL 8019)
			0E	100% (2h) / 30% / 100% (1h)	2	Black (RAL 9005)
			0M	100% (5h) / 40% / 100% (1h)		
			0N	100% (6h) / 0%		
			0Q	50% (3h) / 15% / 50% (1h)		
			0T	50% (4h) / 0% / 50% (1h)		
			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)		
			BK	100% (2h) / 30% (3h) / 0% / 30% (1h) / 100% (1h)		
			BS	100% (3h) / 0% / 100% (2h)		

UP4 Dual only

■ LANTERN CODIFICATION

CODE	LANTERN		POWER NOMINAL		COLOR T°		MOTION DETECTOR		LED CODE LANTERNE		LANTERN CONNECTOR		COLOR (RAL)		OPTICS		IRC	
RL	1	He	04	40W	1	2200K	0	No	X	X	0	Single	0	White (RAL 9010)	0	Area & Wide Road	7	70
	2	Un	08	80W	2	2700K					1	Dual	1	Grey brown (RAL 8019)	1	Medium Road		
					3	3000K							2	Black (RAL 9005)	2	Narrow Road		
					4	4000K												

■ TWO POSSIBILITIES

UP4 SINGLE
Motion detection not available

UP4 DUAL
Motion detection available

■ DIMENSIONS

1545 mm
(29.6 in)

55 mm
(2.2 in)

745 mm
(29.3 in)

HE

173 mm
(6.8 in)

816 mm
(32.1 in)

UN

94 / 78 mm
(3.7 / 3 in)

720 / 490 mm
(28.3 / 19.2 in)

■ COLORS

RAL 9010
White

RAL 8019
Grey brown

RAL 9005
Black
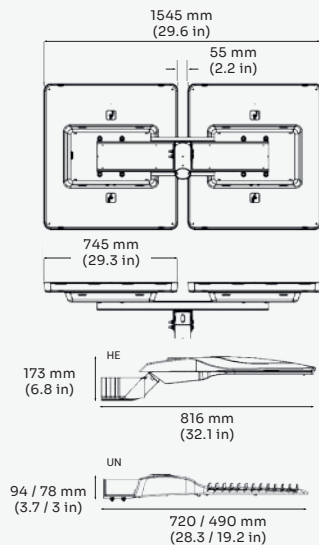
TEMPORARY LIGHTING

PARC & RECREATION

PEDESTRIAN PATH

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SUNNA
D E S I G N