



INTELLIGENT & CONNECTED SOLAR STREET LIGHT

# UP4

MADE IN FRANCE

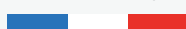


l'intelligence  
solaire solar  
intelligence

UP4

WARRANTY  
6 YEARS

MADE IN FRANCE

**ANTI BLACKOUT  
FUNCTION****REMOTE COMMUNICATION  
& SUPERVISION****PLUG & PLAY****UNIQUE RESISTANCE  
TO EXTREME CLIMATES**

The UP4 combines power and flexibility, thanks to its easy-to-install pre-assembled solar generator and multiple lighting configurations. With a choice of Nano or Elektra lanterns, it is available in Single or Dual versions, enabling it to meet the needs of a wide range of uses.

It also features native supervision via a local Bluetooth application, SunnAPP, with no need for communicating nodes.



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

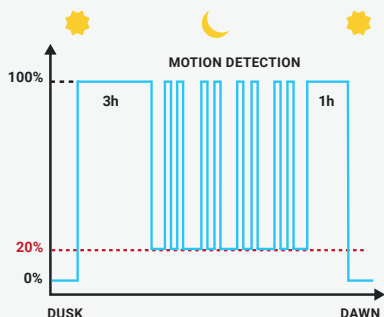
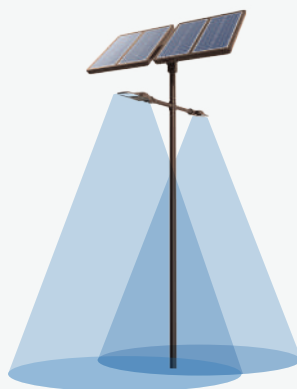
**HIGH-EFFICIENCY LED FIXTURE**

*Up to 196 lm/W*

## LIGHTING PERFORMANCE

Optional on UP4 dual with Nano fixtures

- ☑ Illumination or increase in light intensity on detection of movement around the lamppost
- ☑ Preserves battery life
- ☑ Optimum energy consumption
- ☑ No light pollution
- ☑ Enhanced safety



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 it via long-range Bluetooth.



Installation and commissioning support



Tracking and performance history



Registration and management of the park



Management of lighting profiles

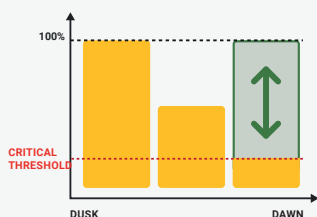


## ■ SMART ENERGY MANAGEMENT



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.

## ☑ EXAMPLES OF LIGHTING PROFILES



OM

100% (5 h) / 40% / 100% (1 h)



BK

100% (2 h) / 30% (3 h) / 0% / 30% (1 h) / 100% (1 h)

☑ Other profiles are available on request.

## ■ WITH ONE OR TWO FIXTURES

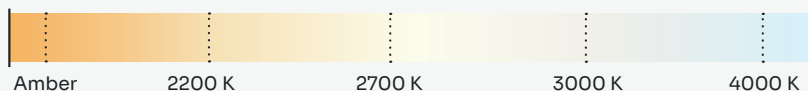


UP4 SINGLE



UP4 DUAL

## ■ COLOR TEMPERATURES

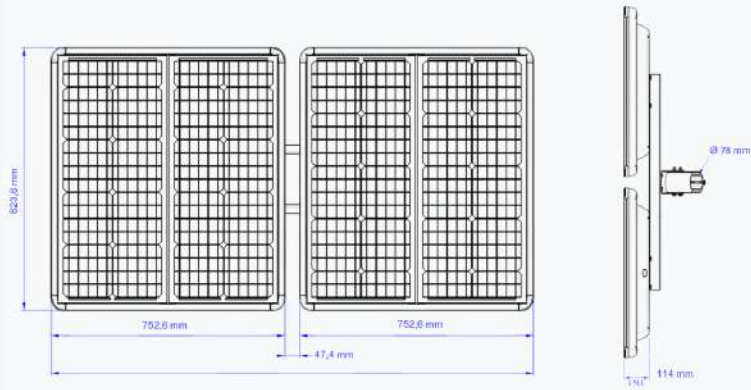


< 2 % blue light  
(for ELEKTRA lantern only)

GENERAL	Structure's material	ABS PMMA casing (70% recycled) and aluminum
	Effective Projected Area	1.11 m² (10.76 ft²): 45° tilted solar panel
	Recommended pole*	Galvanized steel, Top mounting: 76 mm (2.99 in), horizontal arm* or bracket Ø60 mm (2.4 in)
	Weight (excluding pole)	Solar engine: 43 kg (94.79 lbs)
	Options	Motion sensor (compatible with Dual version with 2 Nano fixtures) / Anti-theft screws / Anti birds spikes
	Carbon footprint	84.24 kg CO2 eq
	Système warranty	6 years included (can be extended to 10 years)
	Certificates	CE, CEE, IK08
SOLAR PANEL	Technology	Photovoltaic module (Monocrystalline silicon)
	Power	160 Wp (4 x 40 Wp)
	Electrical characteristics (per panel)	Isc = 2.19 A / Voc = 24.17 V / Imp = 2.01 A / Vmp = 19.9 V
	Tilt angle	0°, 20°, 30°, 45°
	Structure	Frameless
	Lifespan	> 20 years at 80% of initial power
	Recyclability rate	Up to 96 %
	Certificates	IEC 61215, IEC 61730
BATTERY	Technology	NiMH
	Voltage	24 V
	Capacity	480 Wh (2 x 240 Wh)
	Operating temperature range	-40 °C to +70 °C (-40°F / +158°F)
	Lifespan	12 years
	Recyclability rate	Up to 95 %
SUNNACORE EMS	Certificates	EN 62133
	Communication	Bluetooth
	Input voltage	24 V
	Open circuit voltage	45 V
	Max. charge/discharge current	4.2 A
	Protection rate	IP65 with sealed connectors
	Lifespan	> 10 years
	Recyclability rate	100% for precious and base metals
	Certificates	CE, EN61000

\*Included depending on project

DIMENSIONS

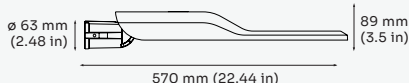




## TECHNICAL FEATURES

LED module	High-efficiency LEDs - Geometry according to Zhaga (Book 15)
Luminous flux	Up to 8,300 lm (with 2 fixtures)
Power	Up to 40 W (with 2 fixtures)
Lighting efficacy	Up to 196 lm/W after optical losses
Color temperatures	Amber (< 2 % blue light), 2200 K, 2700 K, 3000 K, 4000 K
Options	Backlight shield
Material	Cast aluminum luminaire with protective tempered glass
Weight	4.8 kg (10.58 lbs)
Lifespan	Over 100,000 hours (L80B50)
Mechanical resistance	IK10, IP66, corrosion resistance 1,500 hours according to ISO 9227
Recyclability rate	Up to 95%
Certificates	ENEC, ENEC+, Dark Sky, EN 60598, CEE

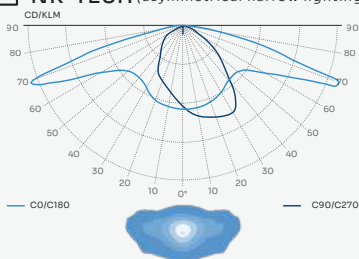
## DIMENSIONS



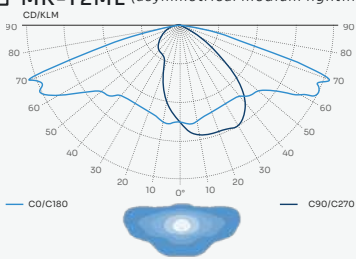
## PHOTOMETRY

0% light emitted upwards with all optics (ULOR = 0).  
Optional barn doors available. IES / LDT files available on request.

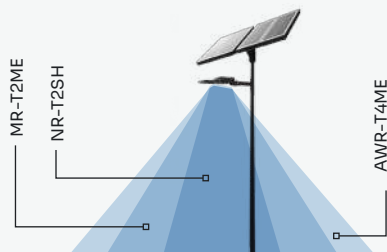
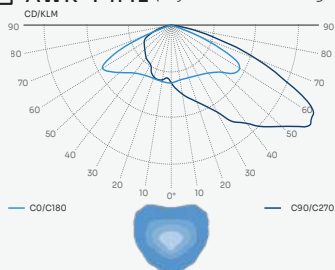
### NR-T2SH (asymmetrical narrow lighting)



### MR-T2ME (asymmetrical medium lighting)

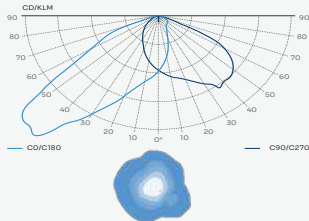


### AWR-T4ME (asymmetrical wide lighting)

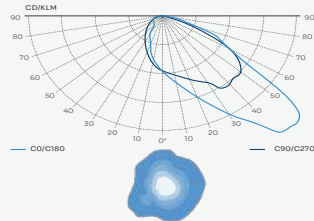


ON REQUEST

### CL (crosswalk on the left)



### CR (crosswalk on the right)

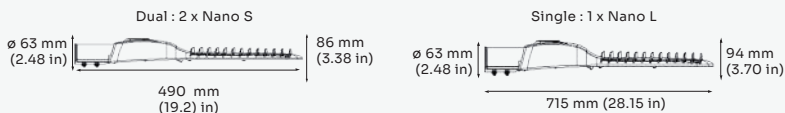




## TECHNICAL FEATURES

LED module	High efficiency LED - Multichip Technology
Luminous flux	1 fixture: up to 6,600 lm 2 fixtures: up to 6,600 lm (and up to 13,200 lm with motion sensor)
Power	1 fixture: 40 W / 2 fixtures: 40 W (and up to 80 W with motion sensor)
Lighting efficacy	Up to 165 lm/W after optical losses
Color temperatures	2200 K, 2700 K, 3000 K, 4000 K
Options	Backlight shield / Motion sensor
Material	Aluminum
Weight	1 Nano L fixture = 5 kg (11.02 lbs); 2 Nano S fixtures = 2 x 1.5 kg (2 x 2.20 lbs)
Lifespan	Over 100,000 hours (L80B10)
Mechanical resistance	IK10, IP66
Recyclability rate	Up to 95%
Certificates	EN 60598, CEE, ENEC

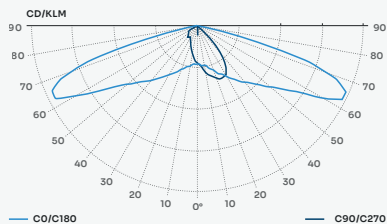
## DIMENSIONS



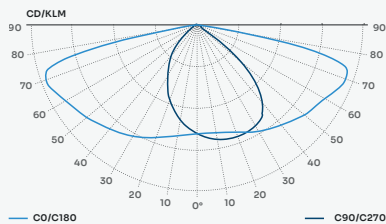
## PHOTOMETRY

Optional backlight shield available. IES / LDT files available on request.

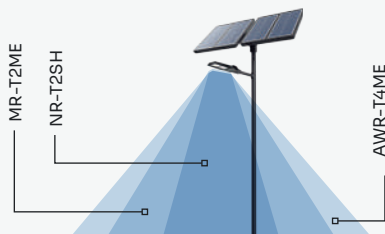
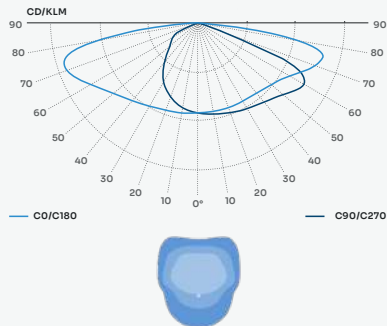
### NR-T2SH (asymmetrical narrow lighting)



### MR-T2ME (asymmetrical medium lighting)



### AWR-T4ME (asymmetrical wide lighting)



## SOLAR GENERATOR CODIFICATION

CODE	MOTION DETECTOR			LIGHTING PROFILE			COLOR (RAL)	
SD4249	0	No	0A	100% (3 h) / 40% / 100% (1 h)			0	White (RAL 9010)
	1	Yes	0C	100% (3 h) / 20% + detection 100 % / 100% (1 h)			1	Brown grey (RAL 8019)
			0M	100% (5 h) / 40% / 100% (1 h)			2	Black (RAL 9005)
			AC	20% + detect. 100% (up to 11 p.m) / 0% / 20% + detect. 100% (from 5 a.m)				
			AH	0% + detection 100%				
			BB	100% (up to 11:30 a.m) / 0% / 100% (from 5:30 a.m)				
			BJ	50% (2h30) + detection 100% / 0% / 50% (2h30) + detection 100%				
			BK	100% (2 h) / 30% (3 h) / 0% / 30% (1 h) / 100% (1 h)				
			BS	100% (3 h) / 0% / 100% (2 h)				
			BR	100% (up to midnight) / 0% / 60% (from 7 a.m)				
			CB	100% (up to 11 p.m) / 50% / 100% (2 h)				
			CH	100% (2 h) / 0% + detection 100% / 100% 1 h				

## ELEKTRA SINGLE / DUAL CODIFICATION

FIXTURE CODE	MOTION DETECTOR			CCT		OPTICS		BACKLIGHT SHIELD		RAL	
RE01C	Elektra single	0	Without	NS	Amber	A	AWR-T4ME	0	Without	9005	Black
RE01D	Elektra dual			22	2200 K	M	MR-T2ME	1	With		
				27	2700 K	N	NR-T2SH				
				30	3000 K	R	Crossing R				
				40	4000 K	L	Crossing L				
RU00D	Nano Single	0	Without	22	2200 K	A	AWR-T4ME	0	Without	9010	White
				27	2700 K	M	MR-T2ME	1	With	8019	Brown grey
				30	3000 K	N	NR-T2SH			9005	Black
				40	4000 K						
RU00C	Nano Dual	0	Without	22	2200 K	A	AWR-T4ME	0	Without	9010	White
		1	With	27	2700 K	M	MR-T2ME	1	With	8019	Brown grey
				30	3000 K	N	NR-T2SH			9005	Black
				40	4000 K						

## COLORS



**RAL 9005**  
Black  
(Standard)



**RAL 9010**  
White  
(Available with Nano fixture)



**RAL 8019**  
Brown grey  
(Available with Nano fixture)



## TEMPORARY LIGHTING



## APPLICATIONS

### PARC & RECREATION



### PEDESTRIAN PATH



2023-2024



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SOLAR INTELLIGENCE