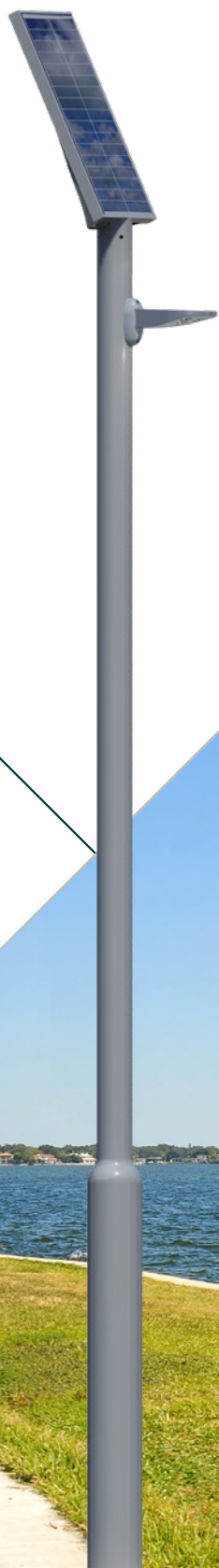


# COMBI 1 MARGO

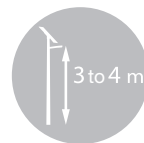
AUTONOMOUS LIGHTING  
A DURABLE SOLUTION



NOVEA  
LEADER IN SOLAR STREET  
LIGHTING

**endurance+**  
TECHNOLOGY

THE MOST DURABLE AND  
PERFORMING BATTERY OF  
THE MARKET



0€ OF TRENCH WORK  
0€ OF CABLE  
0€ OF ELECTRICITY BILL  
0€ OF CONSUMMATION  
0€ OF SUBSCRIPTION



BUS STOP  
FOOTPATH  
VOLUNTARY DROP POINTS  
TRADE AREA  
SQUARE

# TECHNICAL CHARACTERISTICS

## COMBI 1 MARGO

### SOLAR PANEL

Power / Area	25 Wp / 0,17 m <sup>2</sup>
Technology	Cristallin high efficiency
Rear cover	Powder-coated galvanized steel
Lifetime	> 25 years

### BATTERY

Technology	Endurance +, Lithium Iron phosphate
Capacity	345 Wh
Location	NOVBAT aluminium casing, IP66, fast connectors, located into the pole, accessible by access hatch
Lifetime	> 20 years*

### LUMINAIRE

Template	MARGO MINI 1 petal 3 LED
Mechanical data	Cast aluminium - IP66 - IK08
Light height	3.3 m
Power consumption	7 - 10 W
Luminous flux leaving	829 - 1 166 lm
Light efficiency	> 117 lm/W
Color temperature	3 000 K or 4 000 K // IRC > 70
Lifetime	> 80 000 h at 80% of initial flux

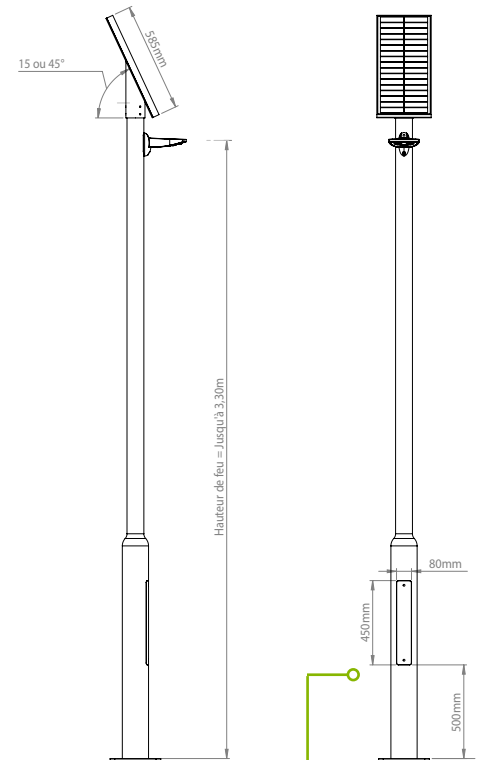
### LIGHT CONTROL

Electronic NOVEMS	Designed by Novea 70W/-20°C +80°C / Efficiency 95% Expected lifetime of 20 years
Functions and lighting management	Switchoff and/or dimming during the night Presence detection (option) Informations storage Weather counter of operation Calculation of the battery charge level
Protection	Deep discharge, Overload, Temperature, Short circuit

### BRACKET MAST AND STICK

Mast material	Bisection powder-coated galvanized steel
EN40 compliant	Wind zone 28m/s (solar panel inclined at 45°) and 36m/s (solar panel inclined at 15°)

### Dimensions



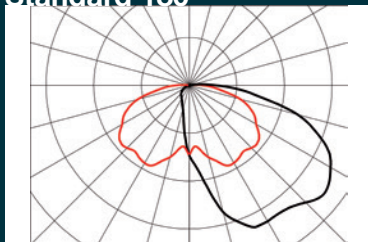
### NOVBAT



**RUGGED AND LONG-LASTING**  
Service life > 20 years\*

### Photometry

#### Standard 180°



Optimal lighting to the roads or paths without rear flux.

x x y	HT	7W	10W	Uniformity
3x5m	3.30	8.71	17	0,38
5x5m	3.30	7.33	15	0,17
5x10m	3.30	4.61	9.20	0,14

Luminous flux expressed in middle flux.  
For each application, an energetic study will be provided to validate capacities of the product (power, lighting time, autonomy).

\* Fort the temperate area