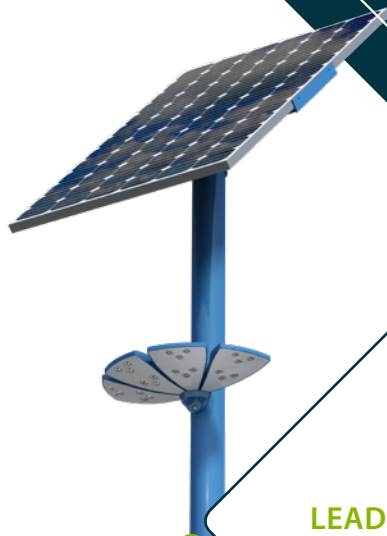
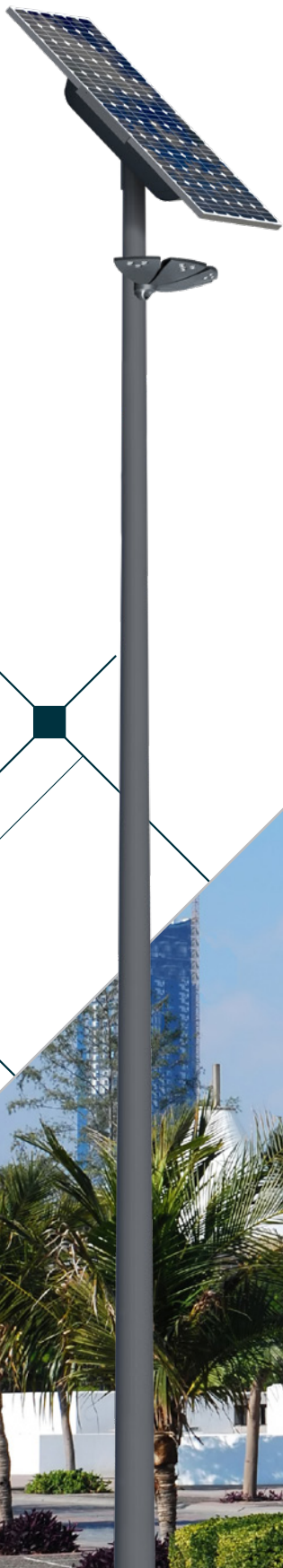


# COMBI TOP 4 MARGO COMBI TOP 5 MARGO

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 CONSUMPTION  
0€ OF SUBSCRIPTION



FLOOD ZONE  
PARKING  
ZAC  
CROSSING  
HAMLET

# TECHNICAL CHARACTERISTICS

## COMBI TOP 4 COMBI TOP 5

### SOLAR PANEL

Power / Area	210 Wp / 1,3 m <sup>2</sup>	260 Wp / 1,6 m <sup>2</sup>
Technology	Cristallin high efficiency	
Lifetime	> 25 years	

### BATTERY

Technology	Endurance +, Lithium Iron phosphate	
Capacity	819 at 1 638 Wh	
Location	NOVBOX aluminium casing, IP66, fast connectors, located under solar panel	
Lifetime	> 20 years*	

### LUMINAIRE

Template	Margo Mega 12 or 24 LED	
Mechanical data	Cast aluminium - IP66 - IK08	
Light height	5.0 m, 6.0 m or 7.0 m	6.0 m, 7.0 m or 8.0 m
Power consumption	20 - 60 W	
Luminous flux leaving	3 200 - 9 600 lm	
Light efficiency	Up to 165 lm/W	
Color temperature	3 000 K or 4 000 K // IRC > 70	
Lifetime	> 80 000 h at 80% of initial flux	

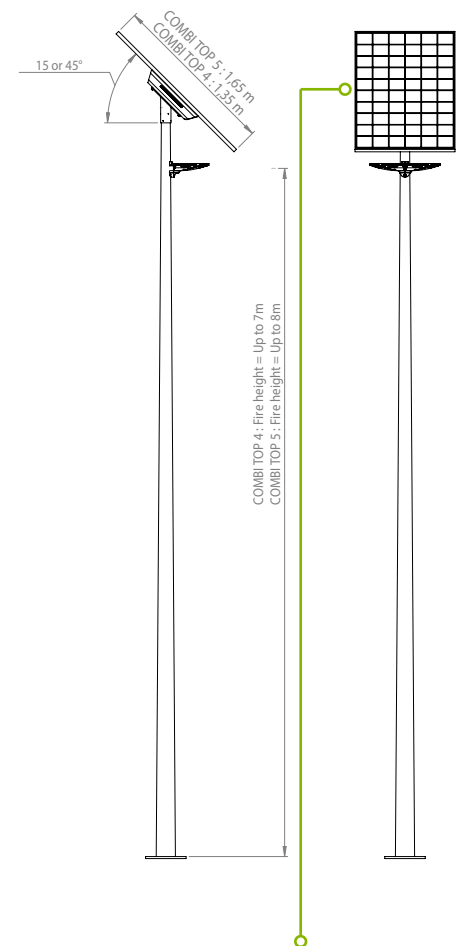
### LIGHT CONTROL

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

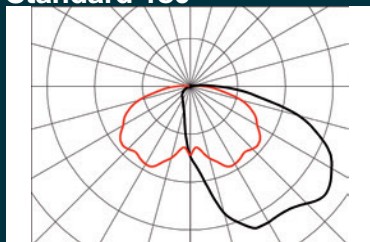
### Dimensions



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

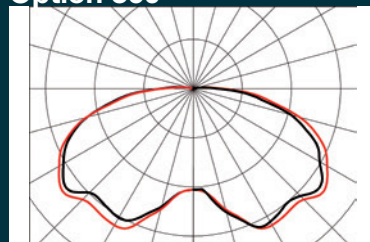
### Photométrie

#### Standard 180°



Optimal lighting to the roads or paths without rear flux.

#### Option 360°



Adapted for highlight places or parkings.

Surface	Ht	30 W	40 W	50 W	Uniformity
20*5 m	5 m	14	18	20	0.285
25*6 m	5 m	11	13	15	0.194
25*6 m	6 m	9.55	12	13	0.266
30*7 m	6 m	7.66	9.44	11	0.192
30*7 m	7 m	6.83	8.41	9.46	0.252
35*8 m	7 m	5.65	6.95	7.83	0.191

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).

\* For the temperate area