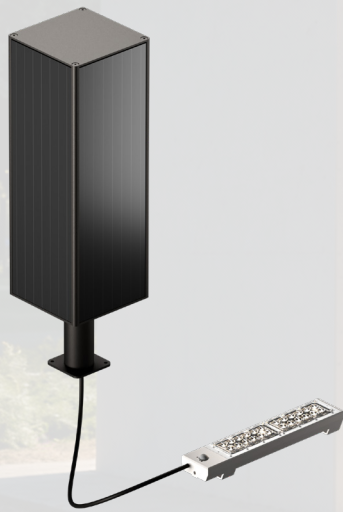


Flexible solar lighting solution for infrastructure-free and remote locations



KEY ADVANTAGES

- > **100% off-grid, zero infrastructure constraints**
- > **Separated solar tower and luminaire architecture allow independent installation, ensuring flexible deployment and seamless integration in off-grid and space-restricted environments**
- > **Homogenous, targeted LED lighting for optimal visibility**
- > **High-performance vertical solar panels for optimum energy capture**
- > **Fast, plug-and-play deployment**
- > **PIR sensor compatible for optimal energy usage**

ALTARA MODULE provides reliable lighting without the need for electrical infrastructure, unlocking new possibilities for rural and off-grid applications such as bus shelters, kiosks, bicycle parking areas, solar carports, small underpasses and space-restricted locations.

Fully autonomous and grid-free, ALTARA MODULE delivers clean, reliable and targeted illumination in locations where conventional infrastructure is difficult or costly to deploy, helping municipalities support the development of sustainable public spaces.

Its decoupled architecture combines a high-efficiency solar tower with a remotely installed LED luminaire, offering full flexibility in layout and architectural integration. Equipped with four high-efficiency vertical solar panels, the tower optimises energy capture and can be positioned to maximise solar exposure independently from the lighting area.

PIR sensor compatibility further improves energy efficiency by activating the light only when presence is detected.

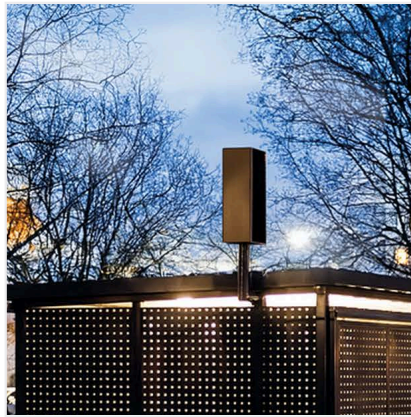
Designed to deliver precise, efficient illumination, ALTARA MODULE improves visibility and safety while enabling long-term, low-impact lighting in locations where conventional solutions cannot be installed.



HIGHLIGHTS



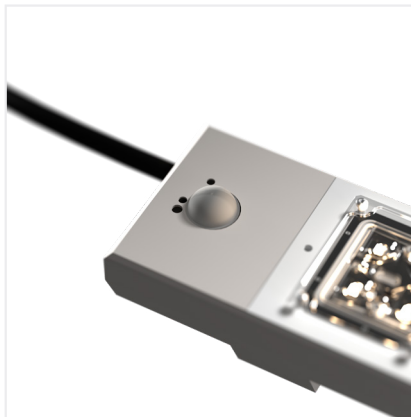
High-efficiency vertical solar panels ensure consistent energy capture, even in dense or partially shaded environments.



Decoupled architecture allows independent positioning of the solar tower and luminaire for flexible integration in various off-grid locations.



ALTARA MODULE enhances visibility and safety in infrastructure-free and remote locations.



PIR sensor compatibility optimises energy consumption by activating illumination only when required.



Tool-free, coded connectors ensure fast, reliable and error-free installation



Fully integrated electronics simplify installation and accelerate project deployment.

ALTARA MODULE's separated light source gives designers and engineers full spatial freedom. The luminaire can be optimally positioned where illumination is needed, not where power is available.



The ALTARA solar tower can be installed on top of or alongside the area to be lit, allowing optimal use of available space while maximising solar exposure and simplifying installation.

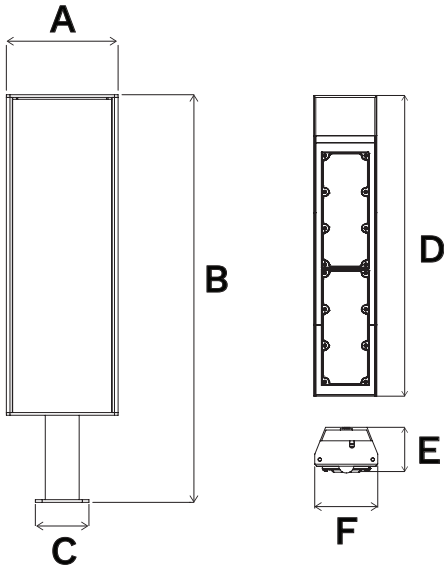
The vertical solar panels maximise energy capture even in diffuse light, while preventing snow and dirt build-up for reliable performance in all conditions.

The integrated high-capacity battery provides a smart power management system.

PRODUCT CONFIGURATION

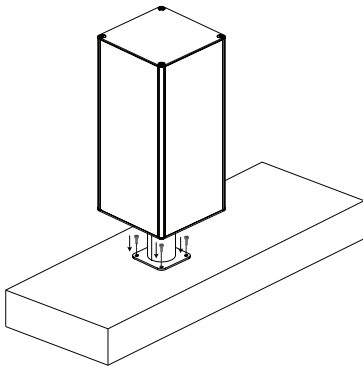
PRODUCT	ENERGY HARVESTING	ENERGY STORAGE	LUMINAIRE
ALTARA MODULE	112Wp	LiFePo4 battery 537Wh	2x 12-LED modules

DIMENSIONS AND MOUNTING

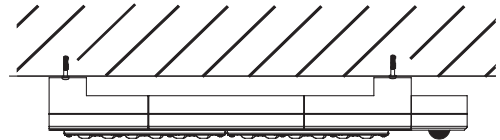


	A (mm inch)	B (mm inch)	C (mm inch)	D (mm inch)	E (mm inch)	F (mm inch)
ALTARA MODULE	250 9.8	1102 43.4	120 4.7	448.5 17.6	67 2.6	94 3.7

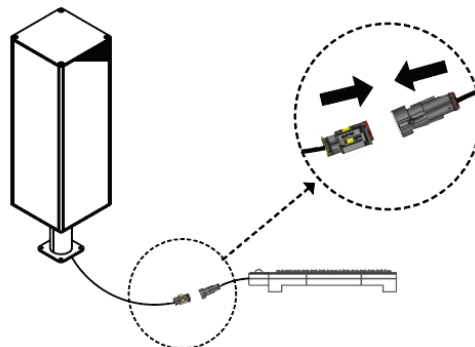
ALTARA SOLAR TOWER SURFACE MOUNTING (4x M8 screws)



ALTARA MODULE SURFACE MOUNTING (2x M6 screws)



TOOL-FREE CONNECTION POKE-YOKE CONNECTORS



CHARACTERISTICS

GENERAL

CE Mark	Yes
Electrical class	Class III EU

MATERIALS

Housing	Polycarbonate
Impact resistance	IK 06

SOLAR PANELS

Finish	Tiger 29/70787 Sparkling Iron Effect Dark
Technology	Monocrystalline silicon cells
Solar cell quantity	44 cells
Frame	Anodised aluminium alloy
Glass	3.2mm (0.13 in) tempered glass
Power	28Wp (x4)
Lifetime expectancy	25 years

BATTERY

Technology	LiFePo4
Voltage	12.8V
Capacity	537Wh (42Ah)
Operating temperature	-20°C to 60°C -4°F to 140°F
Autonomy	3 to 5 days
Tightness level	IPX8
Lifetime expectancy	>10 years

LED MODULE

Optic/protector	PC
Tightness level	IP 65
LED colour temperature	2200K (Warm White 722) 2700K (Warm White 727) 3000K (Warm White 730) 4000K (Neutral White 740)
Colour rendering index (CRI)	>70
Lifetime of the LEDs @ Tq 25°C	>100,000h

CONTROL

PIR sensor	Yes
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PERFORMANCE

		Luminaire output flux (lm)								Power consumption (W)		Luminaire efficacy (lm/W)
		Warm White WW 722		Warm White WW 727		Warm White WW 730		Neutral White NW 740				
Number of LEDs		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Up to
		24		400	3300	500	3600	500	3700	500	3900	

ADAPTIVE LIGHTING



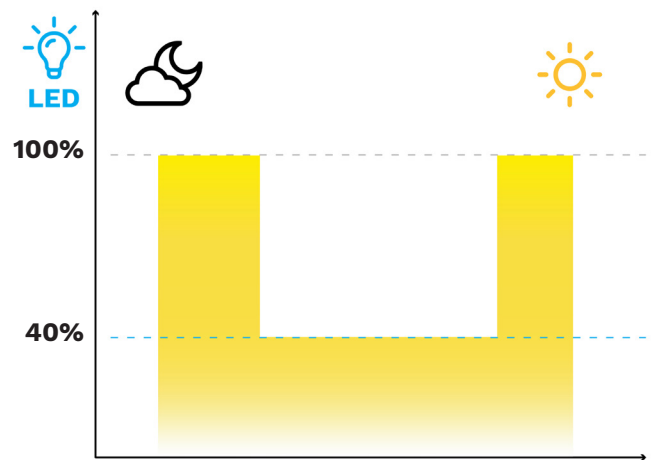
Thanks to the sensor technology, adaptive lighting features make a significant contribution to species conservation by actively reducing light pollution. The luminaire provides full light only when needed, ensuring optimum visibility and safety.

STANDARD DIMMING PROFILES*

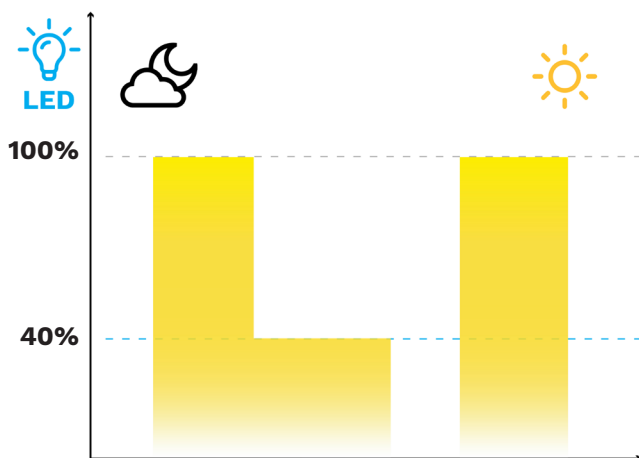
V3: all night 100%



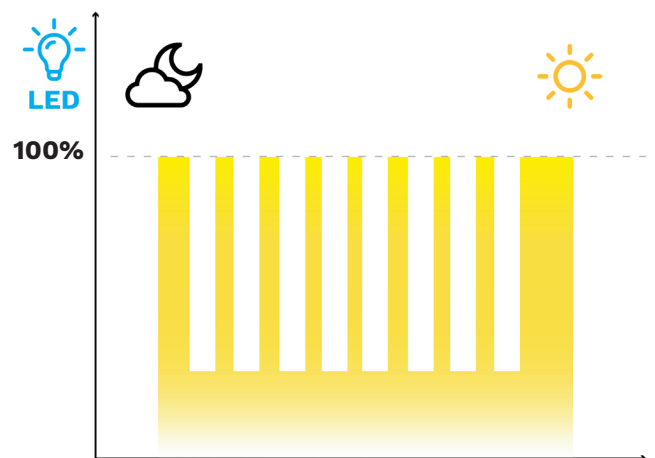
V4: night dimming to 40%



V5: partial switch OFF

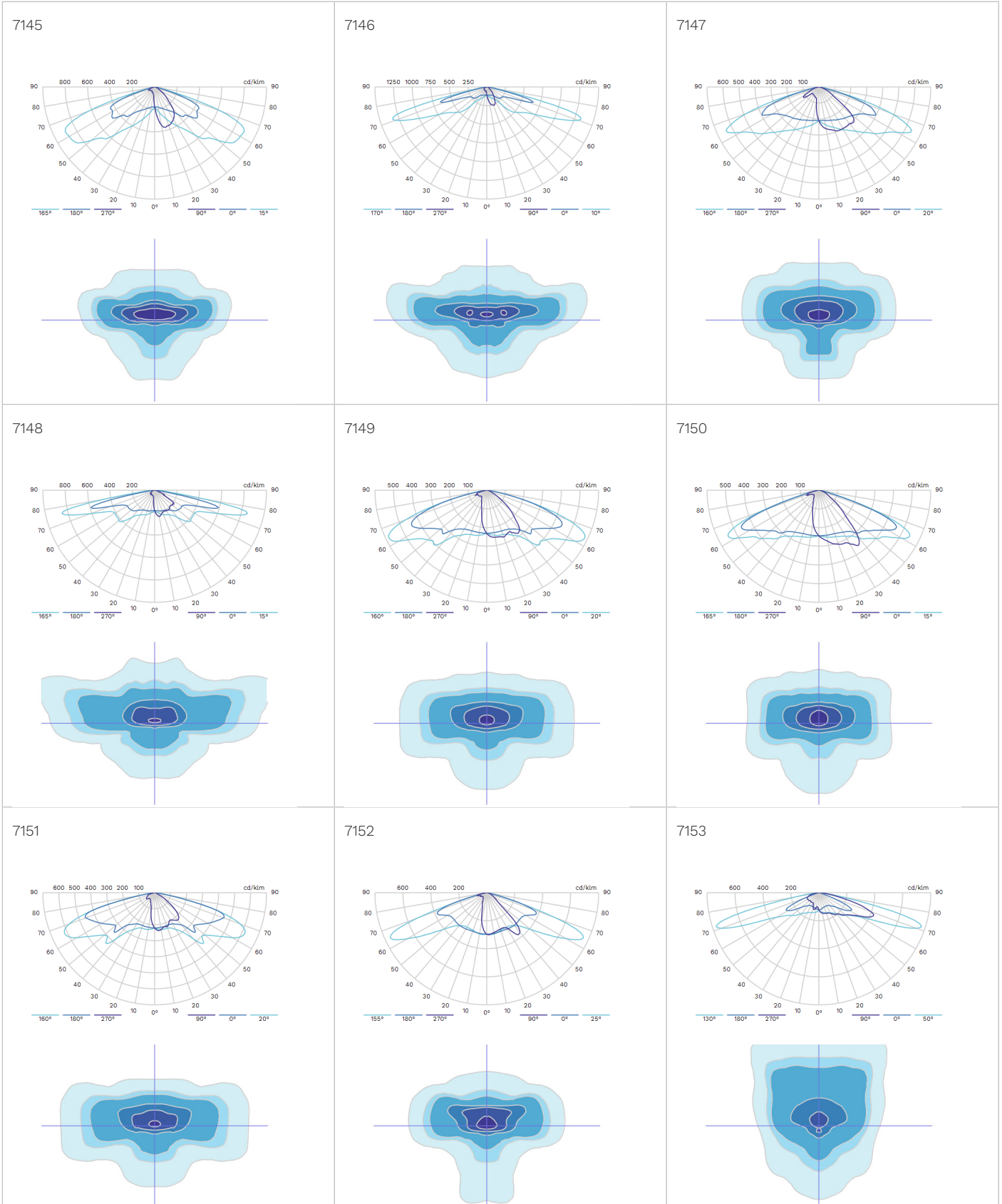


Light on demand (sensor)

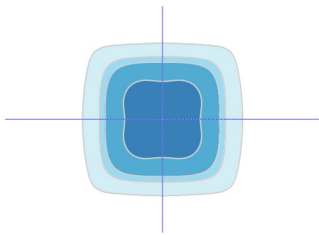
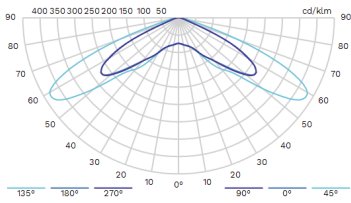


*Customised dimming profiles are available as an option.

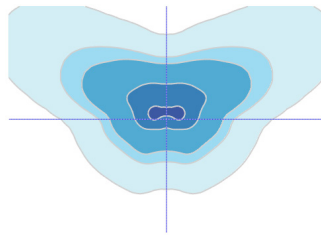
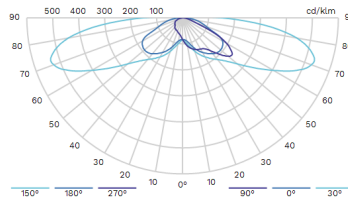
LIGHT DISTRIBUTIONS



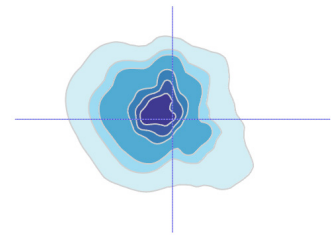
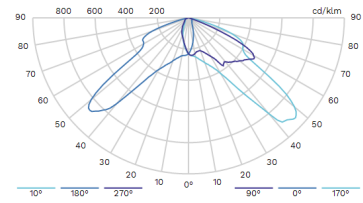
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