



SENTI Series

All-in-One Smart Off-Grid Lighting Solution for Park & Pathway Applications

Delivers highly reliable lighting in a smaller, streamlined design. Parks, pathways and other small applications that require cost-efficient lighting can now have unparalleled:

- > **Energy Forecasting & Management**
- > **Remote Troubleshooting & Remediation**

The Illumient SENTI Series of smart, solar street lights is the world's first true all-in-one complete lighting solution specifically designed to provide ample light levels with a smaller physical and environmental footprint, and a lower cost for park and pathway applications. Plus, with Clear Blue's Energy-as-a-Service, energy generation, storage, and lighting profiles are remotely managed to provide maximum uptime, long life, and easy installation.



Maximum Uptime

Our predictive analytics, weather forecasting and individual load control enables management for maximum uptime.



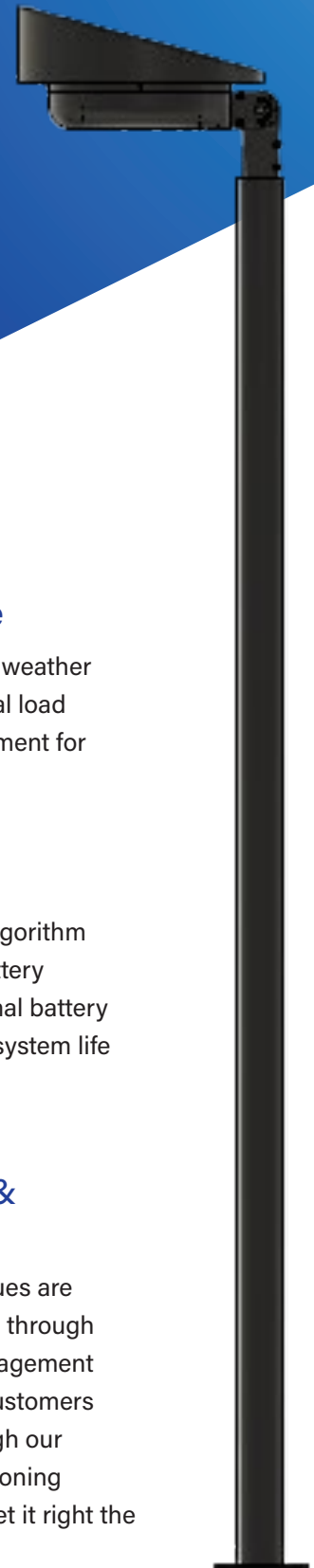
Long Life

Our dynamic charging algorithm uniquely focusses on battery charging to ensure optimal battery management for longer system life and maximum reliability.



Easy Installation & Maintenance

More than 80% of all issues are managed and eliminated through Clear Blue's remote management service. Installers and customers get peace of mind through our commissioning & provisioning services to ensure you get it right the first time, every time.



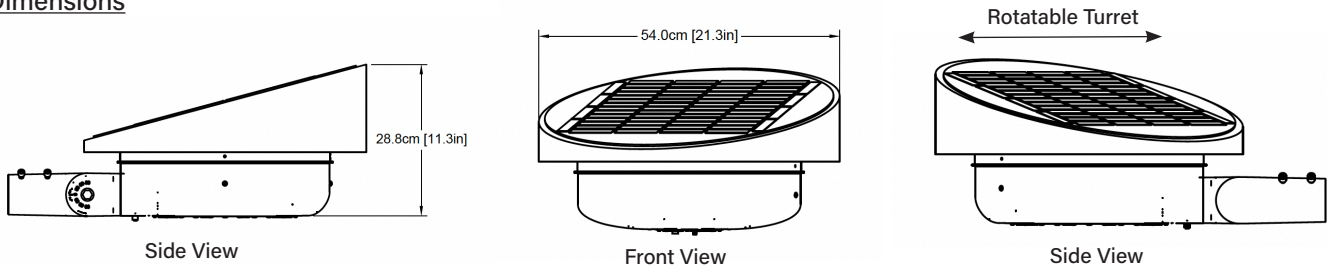
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Lighting Technical Data

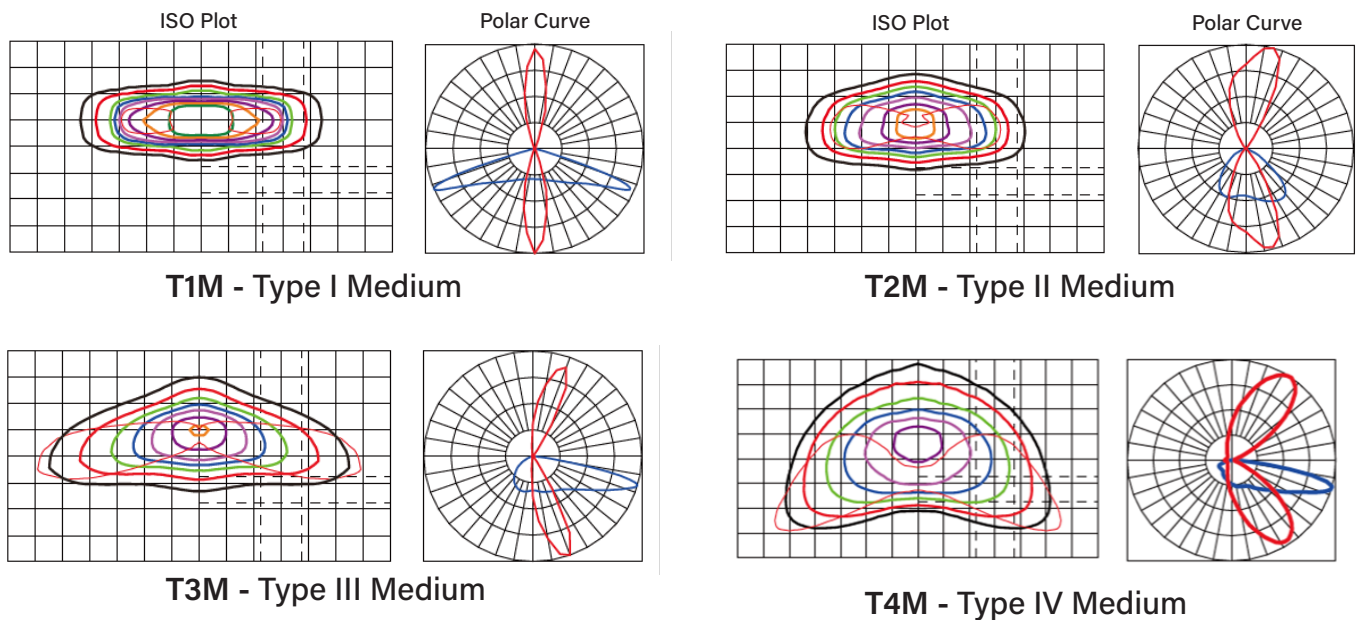
Light Specifications	
Performance	Average of 10W 1700 lumen or 170 lm/W
Colour Temperature (K)	LED Colour temperature (CCT) Options – 3000K, 4200K*, 5000K coming up with Amber colour for coastal regions to preserve wildlife
CRI	70% minimum, higher CRI available upon request.
Fixture	Pole mounted, self-contained and insulated, all-in-one fixture. Rotatable turret allows for solar panel to be oriented in the best direction.
Fixture Colors	Black* (RAL 9011), grey (RAL 7004), dark bronze (RAL 8041)
Light Fixture Weight	33lbs (15kgs) max
EPA	Side EPA it is 0.108m ² and front EPA 0.127m ²

*Regularly stocked

Dimensions



Optical Distribution Options



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Technical Data

Cloud Management and Services	
Energy as a Service (EaaS)	EaaS includes lifetime replacement of any failed electrical components. Clear Blue will monitor battery life and replace batteries, solar panels and controllers as needed. Customers gain peace of mind by not needing to plan for unexpected replacement costs, deal with unexpected downtime nor struggle with warranties. Customers will have a fixed operating expense and are ensured that their systems are monitored and managed by a team of professionals and are running at peak performance.
Illumience Benefits	Illumience Smart Off-Grid provides real-time, 24x7, remote monitoring, management, and proactive servicing of off-grid systems. With Illumience, streetlights, security systems and Internet of Things devices can achieve unprecedented levels of reliability and performance while installation and maintenance costs are drastically reduced. Clear Blue's predictive analytics, weather forecasting and individual load control enables management for maximum uptime.
Service Support	Clear Blue's service team supports the systems from install to day-to-day operation. The service team consists of power professionals who are dedicated to monitoring and managing the performance of the systems so that they deliver maximum uptime. They are trained to diagnose issues in the field like shading on the solar panels, battery degradation, short circuits, weather performance issues and more. Services are included in the subscription to Illumience.
Security	For full details on Clear Blue's cloud security technology, please visit www.illumient.com

Power Components	
Solar Panel	30W
Batteries	60Ah total capacity lithium-ion battery (Qty. 2 30Ah in series). Operates between -15°C to 45°C (5°F to 133°F)
Pole	Recommended pole height is between 10 and 18'. Clear Blue optionally offers aluminum poles upon request, see pole options for more details.
Smart Electronics	Clear Blue's patented Smart Off-Grid technology is at the heart of Senti. Every Senti gets the full performance and service management that Clear Blue offers in all of its systems.

Pole Options	
Pole Height	10ft, 12ft and 14' aluminum pole, up to 18' optional
Pole Type	Aluminum pole
Pole Colour	Black, Grey, Brown. Colours can be customized (see sales representative for details)

Physical	
Dimensions (max height of the solar panel with light)	11.3ft (single solar*, Dual battery) 13.3ft (single solar*, Dual battery) *Solar panels are integrated with the fixture as shown in the visualization of the top of the fixture above.
Mounting options	Square pole mount or slip-on mount (1.625" - 2.375" OD tenon mount)