CLEARBLUE
TECHNOLOGIES

SENTI

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

Intelligent solar lighting effortlessly illuminates parks, pathways, parking lots, and urban corridors. Whether off-grid or grid-connect, it maximizes light that work for through:

> **Energy Forecasting & Management**

> **Remote Troubleshooting & Remediation**

SENTI is a smart, commercial grade solar light and is the world's first true all-in-one lighting solution specifically designed to provide ample light levels with an ultra-light physical and environmental footprint. With a lower cost for park and pathway applications, Clear Blue's Energy-as-a-Service, energy generation, storage, and lighting profiles are remotely managed to keep the lights on all night, while guaranteeing long system life, and easy installation.

Maximum Uptime

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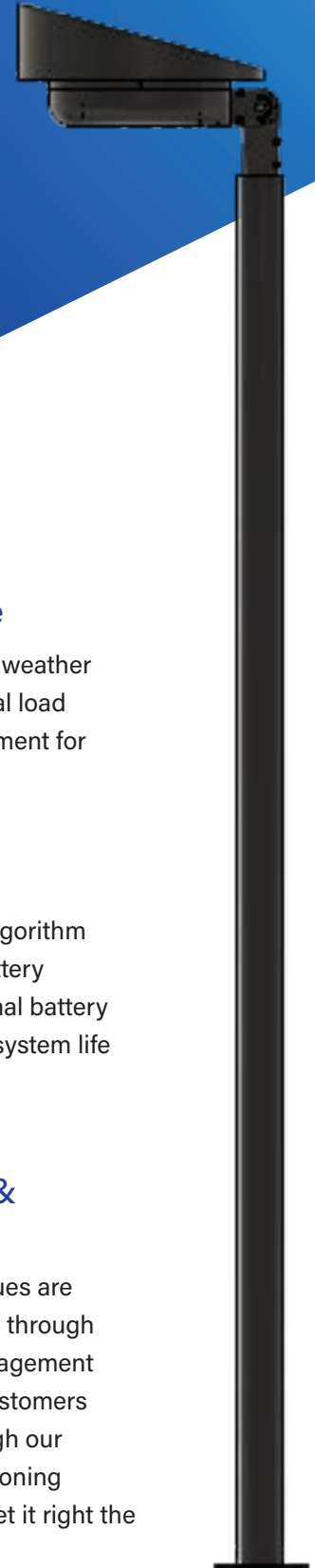
Long Life

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.
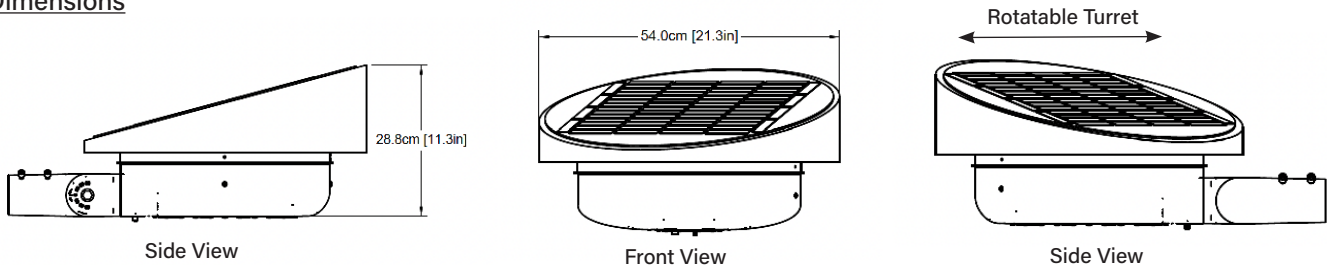
Illuminating Your World
www.illumient.com

Patent Pending

Technical Support:+1.647.748.4822 ext.300
support@clearbluetechnologies.com
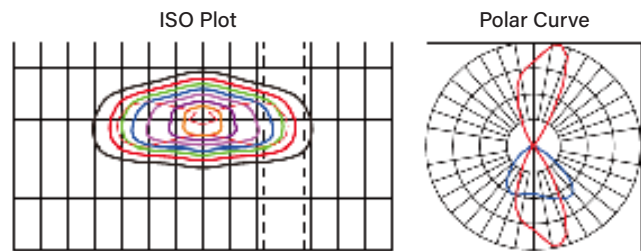95-12-004-001 R.D.

Light Specifications

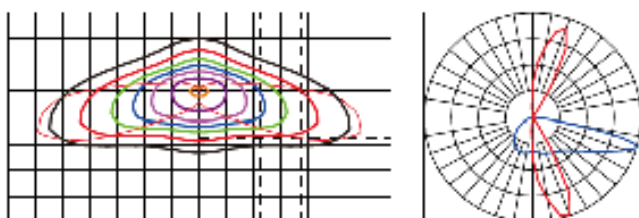|	
Performance	9.6W with an average luminous efficacy of 157 lumens per watt
Colour Temperature (K)	LED Colour temperature (CCT) Options – 3000K, 4200K*, 5000K coming up with Amber colour for coastal regions to preserve wildlife
CRI	70% minimum, higher CRI available upon request.
Fixture	Pole mounted, self-contained and insulated, all-in-one fixture. Rotatable turret allows for solar panel to be oriented in the best direction to optimize solar generation in any location in the world
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

Side View

54.0cm [21.3in]

Front View

28.8cm [11.3in]

Rotatable Turret

Side View

Optical Distribution Options

ISO Plot   Polar Curve

T2M - Type II Medium

T3M - Type III Medium

T4M - Type IV Medium

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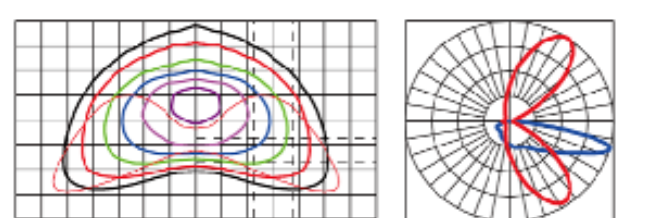
Cloud Management and Services

Energy as a Service (EaaS)	EaaS ensures lifetime replacement of aged electrical components, monitoring and replacing batteries, solar panels, and controllers as needed. Customers enjoy peace of mind with fixed operating expenses, avoiding unexpected costs, downtime, and warranty hassles, while a professional team ensures peak system performance.
Illumience Benefits	Illumience Smart Off-Grid offers 24x7 remote monitoring, proactive servicing, and efficient management for lights, enhancing reliability and performance. Clear Blue's predictive analytics, weather forecasting, and individual load control ensure maximum uptime with reduced installation and maintenance costs.
Service Support	Clear Blue's service team, comprised of dedicated power professionals, supports systems from installation to day-to-day operation, ensuring maximum uptime. Trained to diagnose various field issues, such as shading on solar panels, battery degradation, short circuits, and weather-related performance concerns, their services are included in the Illumience subscription.

Power Components

Solar Panel	30W
Batteries	1 or 2 30Ah lithium-ion batterires.
Optional Grid Connect	Solar-grid hybrid solutions are available for both grid retrofit and grid backup solutions.
Smart Electronics	Clear Blue's patented Smart Power 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. Customer can supply their own pole if preferred.
Pole Type	Aluminum pole
Pole Colour	Black, Grey, Brown. Colours can be customized (see sales representative for details)

Physical

Dimenions (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)

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Ordering Information (ex. CBT-SENTI-T2-722-1B-20-C-SF-BK-GC-P10-MS)

Optical Distri-bution	CRI & CCT	Batteries	Solar Panel	Commu-nication	Mounting Type	Colour	Grid Con-nect	Pole	Motion Sensor
T2=Type 2 Urban T3=Type 3 Urban T4=Type 4 Urban T5=Type 5 Urban Wide	722=70CRI, 2200K 740=70CRI, 4000K 750=70CRI, 5000K 840=80CRI, 4000K 850=80CRI, 5000K	1B=30Ah Li-ion battery 2B=2x30Ah Li-ion battery	30=30W 64=64W	C=Cell W=WiFi	SF=Slip Fit WM=Wall Mount/ Surface Mount	BK=Black BZ=Bronze GR=Grey	None GC=Gric Connect	None P10=10ft P12=12ft P14=14ft P16=16ft P18=18ft	None MS=Motion Sensor

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