

**New Design & Features**

# Solar Light Towers

Unprecedented power-efficiency ensures longer runtime with the brightest illumination and the least energy consumption.



[hawthornecat.com](http://hawthornecat.com)

# Touchscreen Control

## for Programmable Solar Light Towers

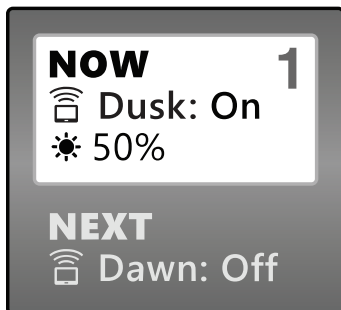
- Exceptional programmability
- Automatic and manual operating modes
- Simple on/off controls
- Full-color 7-inch touchscreen controller
- Multilevel security

Wanco's Programmable Solar Light Towers provide you with the flexibility and versatility of fully automated operation or manual control. Set programs to run automatically, or turn lights on and off with a single "Quick Select" button.

Lights can be individually programmed for manual or automatic operation and any of ten brightness levels. Configure each light individually or all four together with the 7-inch touchscreen controller.



## Controller Main Screen



### Status at a glance

View light status on the controller's Main Screen, including current and future on/off states and brightness for each light.



### Multiple security levels

Secure the lights from changes with multiple logins, or allow unrestricted access by disabling passwords altogether.

### Quick and easy on/off control

Quick Buttons on the Main Screen turn all lights on (from dusk to dawn) and off (instantly).



### System settings

View system information and manage settings such as time and date, light tower location and connected devices.

# Advanced Light Settings



## Manual or automatic

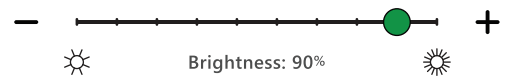
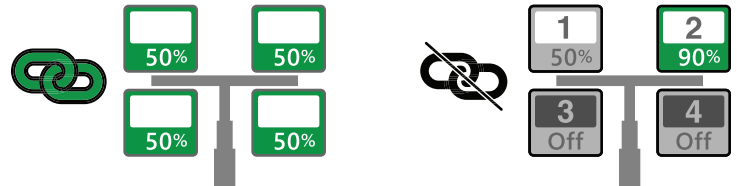
Select the best operating mode for your application to turn lights on and off with manual, timer and sensor control.

## Ten brightness levels from 10 to 100%

Lights are dimmable for every "on" condition, whether setting a program or switching lights on manually. Set brightness independently for each light.

## Select lights to control

Link all lights for simultaneous operation or unlink them for controlling just one—or two, or three in any combination.



Program 1 : On	View	Edit
Program 2 : None	View	Create
Program 3 : None	View	Create

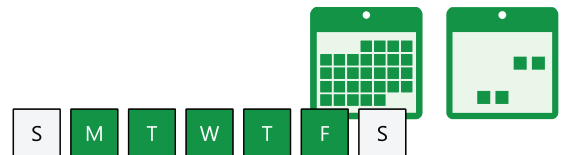
## Multiple independent programs

Create up to three separate programs, which can be independently configured and activated.



## Dusk-to-dawn default

Automatic operation is set for dusk to dawn by default. The system uses a photocell sensor to trigger the lights.

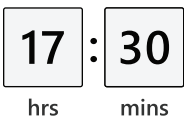


## Flexible scheduling

Choose to run a program every day or on selected days. The built-in calendars let you set start and end dates for each program, or choose specific dates you want it to run.

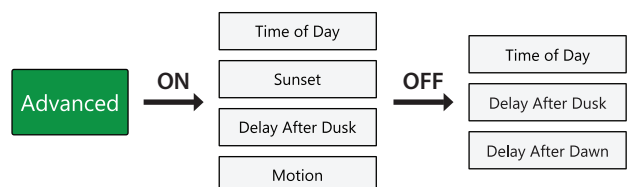
## Lights on ... lights off

Lights turn on at



Advanced settings give you options for automatically turning on the lights at a specific time of day, at sunset, from 15 minutes to 2 hours after dusk, or based on motion detection.\*

Similar settings automatically turn the lights off. Mix and match on and off settings as needed.



\*Motion detection requires installation of optional equipment.

# Power Management

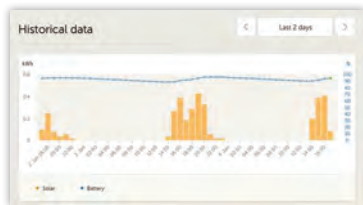
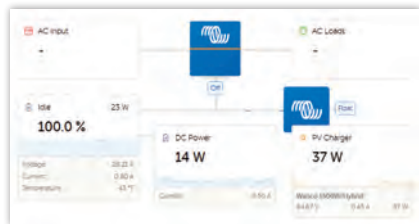
## for Programmable Solar Light Towers

- True battery state-of-charge
- Convenient time remaining feature
- Remote power monitoring & management
- Bluetooth® app for local remote control
- Extensive performance history

Wanco's Programmable Solar Light Towers offer a number of choices for power system monitoring and management, with both local and remote options ranging from simple to sophisticated.

A full-featured smartphone app uses a local Bluetooth® connection and is included with all programmable solar light tower models, both solar-only and hybrid. Remote monitoring and control uses cellular access\* and is included with hybrid models and optional for solar-only models.

## Remote Monitoring & Control



\*Includes 5-year cellular service plan.

## Local Monitoring & Control



### Battery monitor

For solar-only models, a battery monitor on the control panel is standard. It gives local access for viewing the most useful power information in real-time.



### Power controller

Hybrid models include an advanced touchscreen controller that provides access to all power performance information and power system controls. The touchscreen is an optional upgrade for solar-only models.

## Deluxe power management

The Deluxe package\* provides a real-time look at power performance, allowing you to monitor, manage and optimize the power system remotely. Use live and historical data to make informed decisions and adjust the light tower operation. Set alerts and alarms to catch potential issues early. This package is standard on hybrid models, and optional for solar-only models.

## Basic power management

The Basic package\* provides a snapshot view of the same power data and performance history as the Deluxe package provides. The system connects briefly and uploads data to the cloud at 15-minute intervals, as the Basic package does not provide live data. This package is optional for solar-only models.

## Bluetooth app

The remote power management app for smartphones provides the same functions as the Deluxe package. It connects only within Bluetooth range of the light tower. The app is free and connects with all programmable solar light tower models.





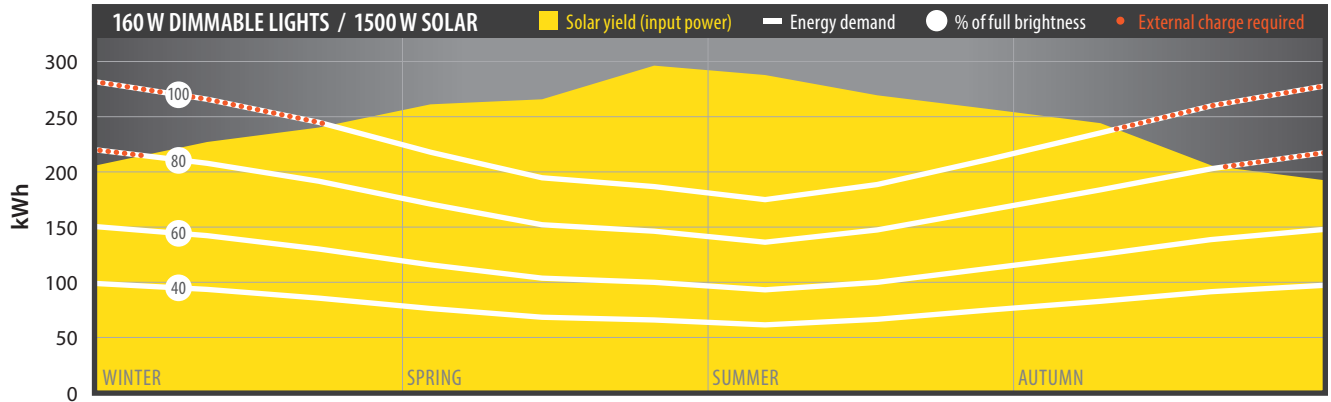
# Solar Yield vs. Energy Demand

Wanco's Programmable Solar Light Towers use state-of-the-art Smart MPPT solar controllers along with monocrystalline half-cut cell solar panels for increased power yield. The Wanco Economy Solar Light Tower uses traditional solar technology. As a result, the programmable models are significantly more energy efficient.

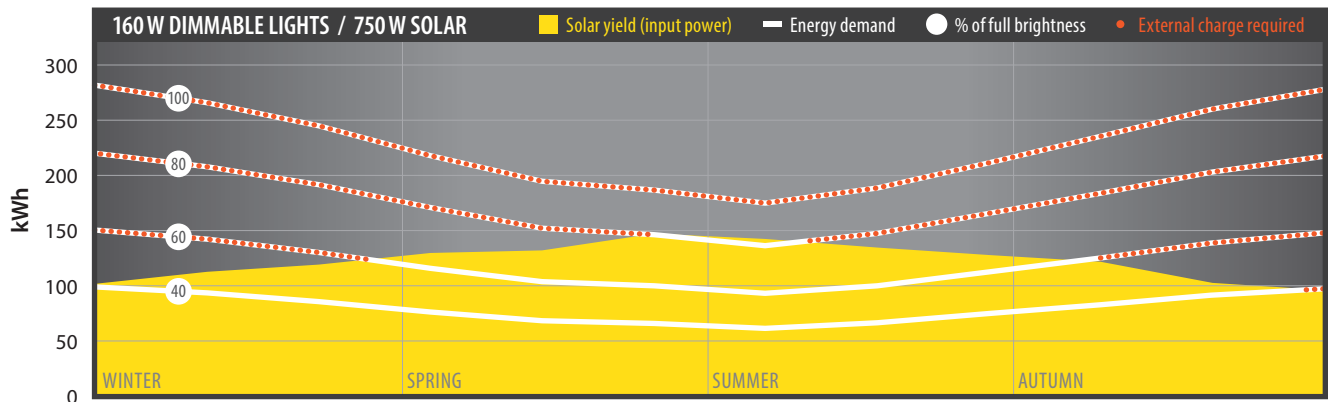
When solar yield is greater than the energy demand from the lights, autonomous operation is possible. When the demand exceeds the solar yield, external charging is required.

The charts shown below are representative of dusk-to-dawn operation, 7 days a week. Charts for your application and location are available from the factory.

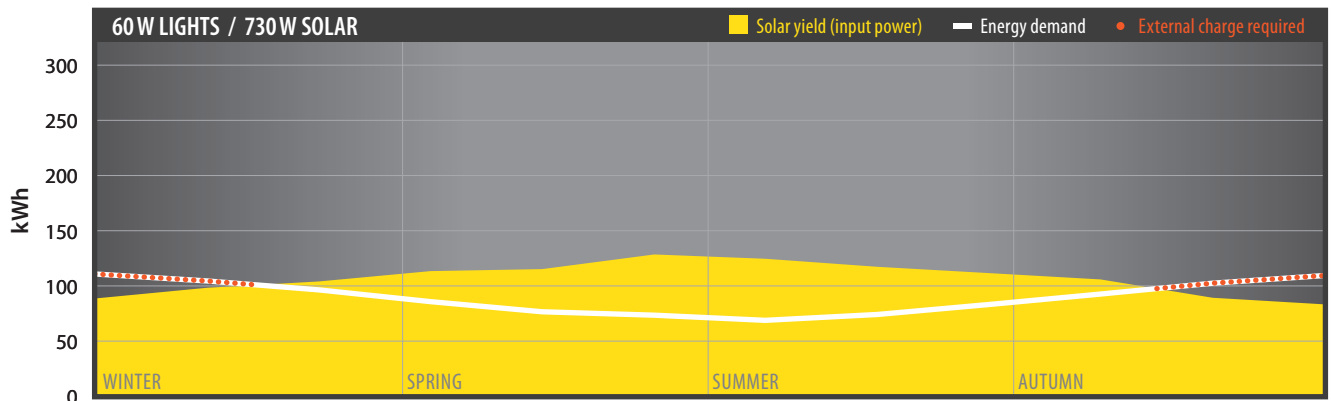
## Programmable Solar Light Towers 1500-watt models



## Programmable Solar Light Towers 750-watt model



## Economy Solar Light Tower



# Programmable Solar Light Towers

- Dimmable LED lights on 24-foot tower
- Unprecedented power efficiency
- Two models provide 750 or 1,500 watts of solar
- Smart MPPT solar charge controller
- Optional remote power management systems

Wanco's Programmable Solar Light Towers feature outstanding power efficiency for reliable performance and long runtime. Ultra-bright LED lights can be individually programmed for automatic operation and desired brightness from 10 to 100 percent. A 7-inch full-color touchscreen controller enables highly customizable autonomous operation and makes manual operation easy.

Four high-efficiency, high-output light fixtures top the 24-foot telescoping tower. The tower rotates nearly 360 degrees without lowering the lights, which operate at any height. The lights can be individually aimed without the use of tools, and they stay where you point them. The tower remains vertical at all times, and the trailer's low center of gravity keeps the tower stable.

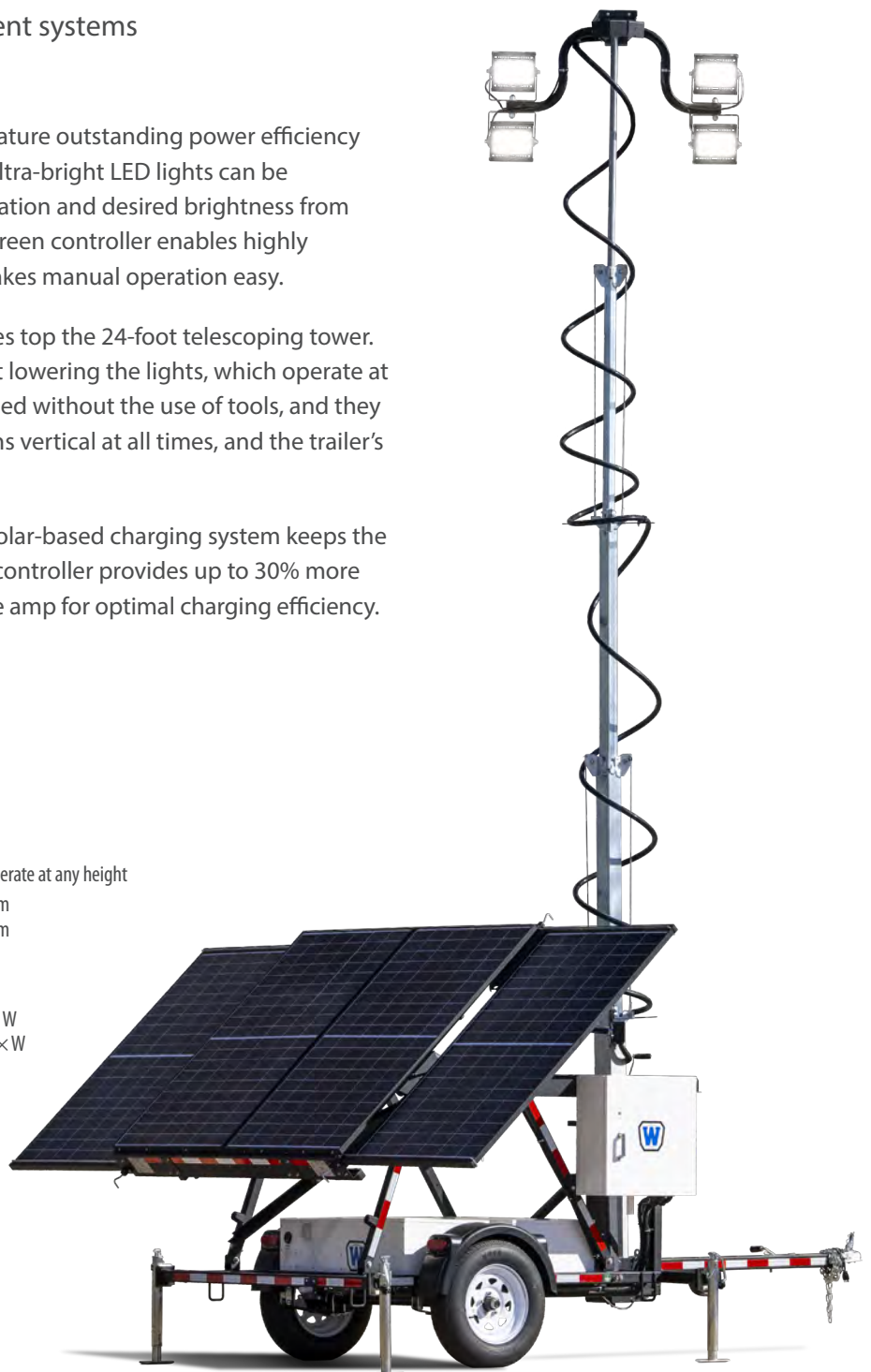
Batteries provide power and an automated solar-based charging system keeps the batteries charged. The system's Smart MPPT controller provides up to 30% more charging capacity, maximizing every available amp for optimal charging efficiency.

## Brief specifications

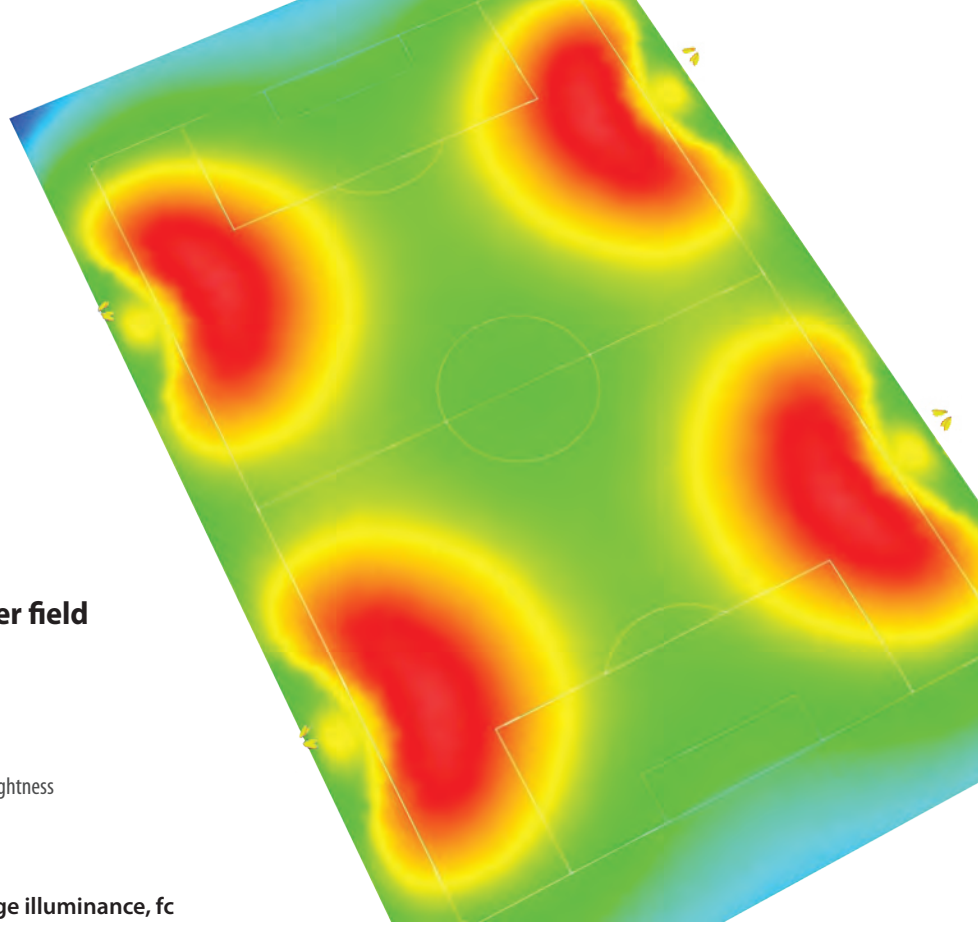
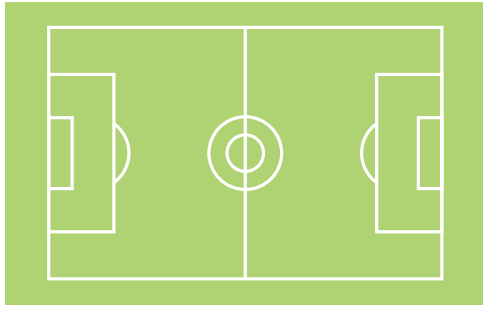
Lights	Four adjustable LED light fixtures	
Luminous flux	23,000 lumens per fixture 92,000 total lumens	
Coverage area	40,000 sq ft	
Power draw	160 watts per light fixture	
Light height	24 feet (7.3 meters) fully extended; lights operate at any height	
Batteries	750W	400 Ah, wired as a 24-volt system
	1500W	800 Ah, wired as a 24-volt system
Solar	750 W and 1500 W models	
AC charger	50 A	
Deployed footprint	750W	175 × 85 in (457 × 215 cm), L × W
	1500W	180 × 164 in (457 × 417 cm), L × W
Travel height	9 ft (2.72 m)	
Drawbar	Folding drawbar with 2-inch ball hitch	
Weight, approx.	750W	2100 lb (953 kg)
	1500W	2900 lb (1315 kg)

## Options

- 30-foot tower
- Electric winch
- Remote power management system
- Asset Manager for GPS location



Programmable Solar Light Tower, 1500-watt  
Model WLTS-M-1500



### Four light towers on a regulation soccer field

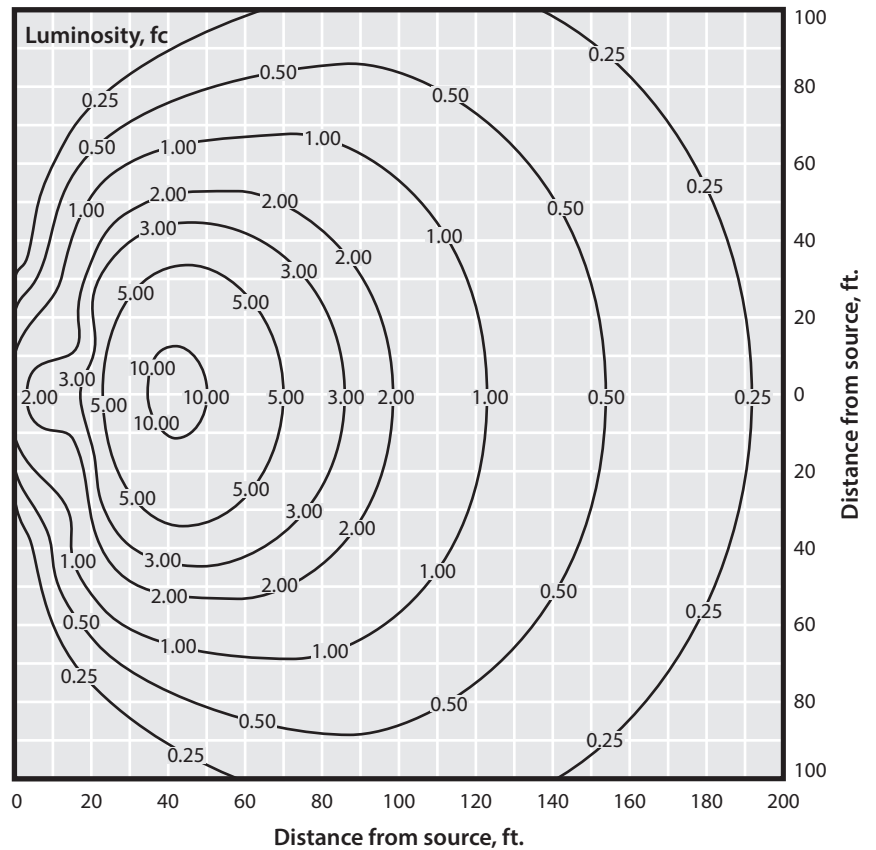
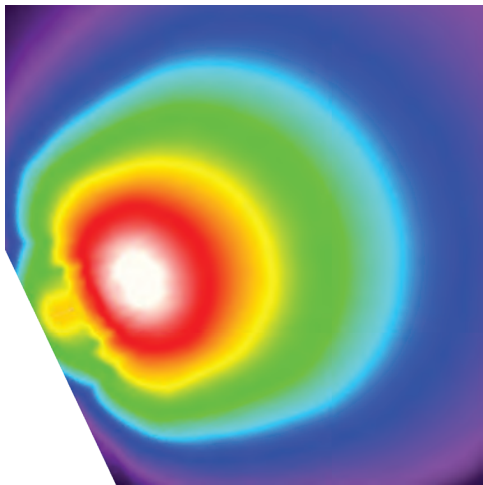
Lights	Four dimmable 160-watt fixtures per tower
Light height	24 ft.
Lighting area	400 × 250 ft.
Total acreage	2.2960
Illuminance	2.40 fc average across entire area at 100% brightness

Average illuminance, fc



### Single light tower isolines

Lights	Four dimmable 160-watt fixtures
Light height	24 ft.
Lighting area	200 × 200 ft.
Total acreage	0.9183
Illuminance	1.31 fc average across entire area at 100% brightness



Typical recommended light levels based on Illuminating Engineering Society (IES) documents except where noted: general construction, 10 fc; self-parking, 1 fc; active industrial yards, 5 fc; haul roads, 0.5 to 1 fc; flagger, 5 fc (per MUTCD); quarries & pit mines, 5 fc.

# Programmable Hybrid Solar Light Tower

- Dimmable LED lights on 24-foot tower
- Unprecedented power efficiency
- Battery powered and solar charged
- Sound-attenuated diesel power backup
- Deluxe remote power management system

Wanco's Hybrid Solar Light Tower adds backup power to the extensive list of features provided by our solar-only light towers. A diesel engine charges the batteries when needed, for seasons and locations with limited sunlight. The engine runs automatically to keep the batteries fully charged. Environmental features include sound-attenuated enclosure and exhaust, and integrated fluid containment.

The system features a 7-inch full-color touchscreen controller for the lights, and a second controller specifically for power management. Wanco's deluxe remote power monitoring and management package is included.

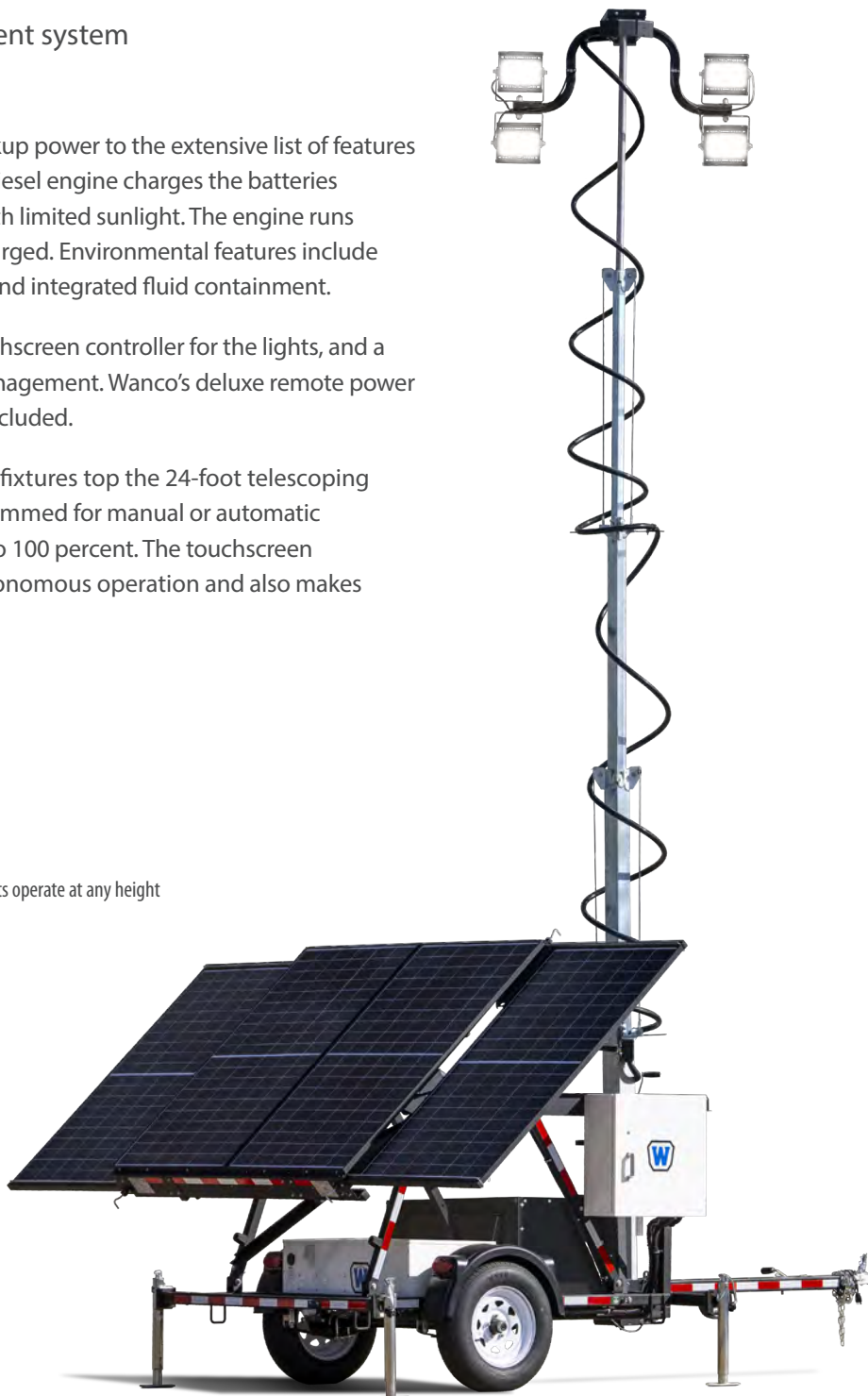
Four high-efficiency, ultra-bright LED light fixtures top the 24-foot telescoping tower. The lights can be individually programmed for manual or automatic operation and desired brightness from 10 to 100 percent. The touchscreen controller enables highly customizable autonomous operation and also makes manual operation easy.

## Brief specifications

Lights	Four adjustable LED light fixtures
Luminous flux	23,000 lumens per fixture 92,000 total lumens
Coverage area	40,000 sq ft
Power draw	160 watts per light fixture
Light height	24 feet (7.3 meters) fully extended; lights operate at any height
Batteries	400 Ah, wired as a 24-volt system
Solar	1500 W
AC charger	50 A
Engine	Tier 4 final diesel
Fuel tank capacity	22 gal (83 L)
Deployed footprint	180 × 164 in (457 × 417 cm), L × W
Drawbar	Folding drawbar with 2-inch ball hitch
Travel height	9 ft (2.72 m)
Weight, approx.	2700 lb (1315 kg)

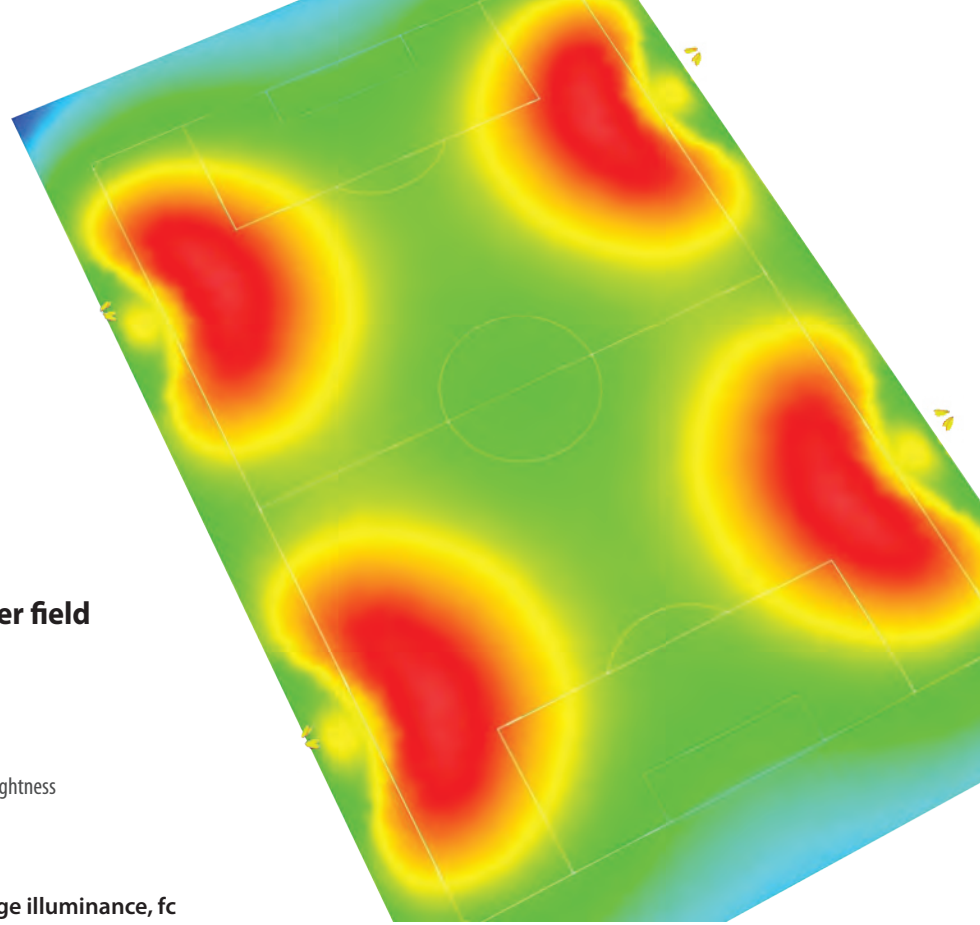
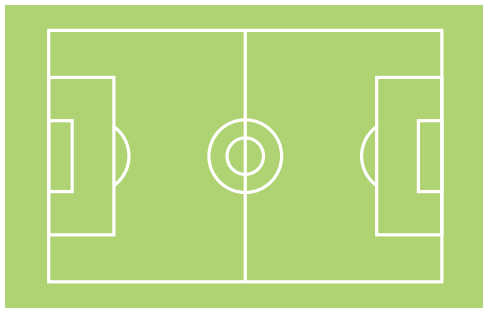
## Options

- 30-foot tower
- Electric winch
- Asset Manager for GPS location



Programmable Hybrid Solar Light Tower  
Model WLTS-M-1500H

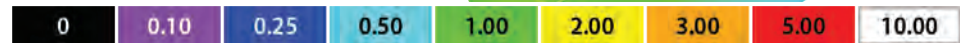




### Four light towers on a regulation soccer field

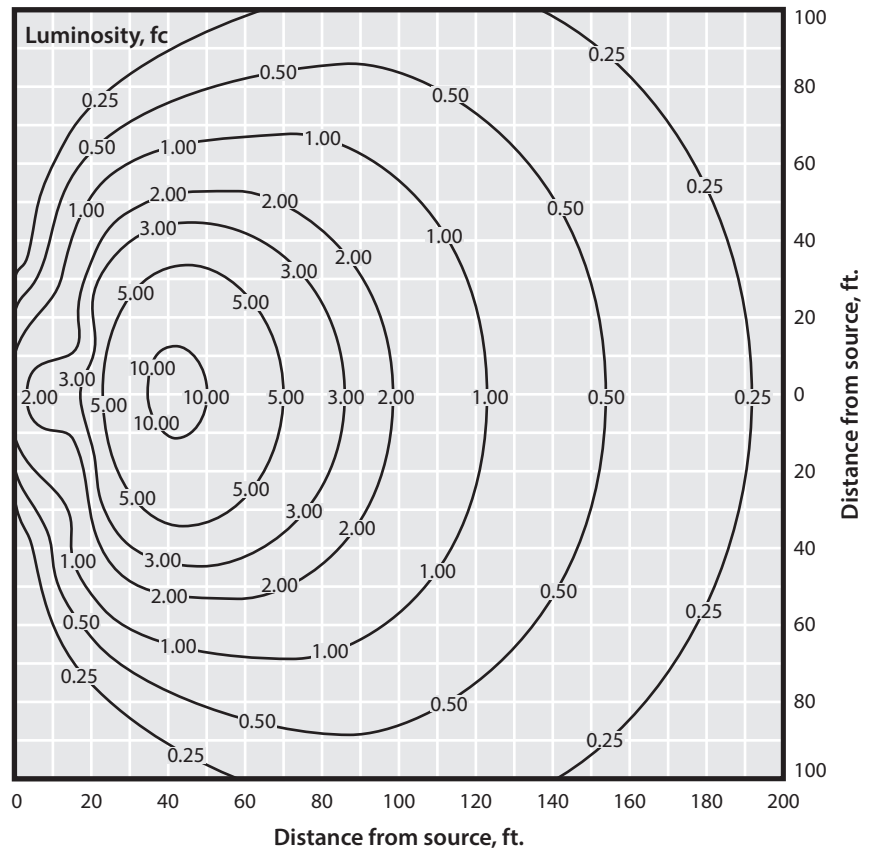
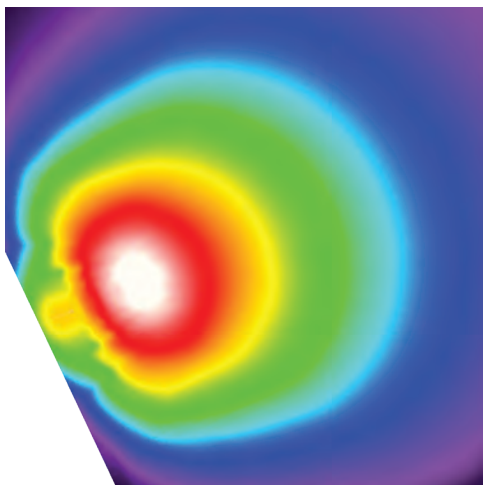
Lights	Four dimmable 160-watt fixtures per tower
Light height	24 ft.
Lighting area	400 × 250 ft.
Total acreage	2.2960
Illuminance	2.40 fc average across entire area at 100% brightness

Average illuminance, fc



### Single light tower isolines

Lights	Four dimmable 160-watt fixtures
Light height	24 ft.
Lighting area	200 × 200 ft.
Total acreage	0.9183
Illuminance	1.31 fc average across entire area at 100% brightness



Typical recommended light levels based on Illuminating Engineering Society (IES) documents except where noted: general construction, 10 fc; self-parking, 1 fc; active industrial yards, 5 fc; haul roads, 0.5 to 1 fc; flagger, 5 fc (per MUTCD); quarries & pit mines, 5 fc.

# Economy Solar Light Tower

- LED lights on 20-foot tower
- Compact trailer
- Automatic and manual operating modes
- Battery powered and solar charged
- Maintenance-free AGM batteries

Wanco's Economy Solar Light Tower provides bright, concentrated LED light for night work. Common applications include utility and road repairs, security checkpoints and gated entrances, flagger stations and personal work areas. Solar light towers operate silently, which makes them perfect for use in residential areas without disturbing the public.

This light tower features four highly efficient LED light fixtures on a 20-foot telescoping tower. The tower rotates nearly 360 degrees without lowering the lights, which operate at any height. The lights can be individually aimed without the use of tools, and they stay where you point them. The tower remains vertical at all times, and the trailer's low center of gravity keeps the tower stable.

Batteries provide power and an automated solar-based charging system keeps the batteries charged. Functions include manual control and a selection of automatic modes that include dusk-to-dawn operation. Autonomous operation is possible spring, summer and fall.

## Brief specifications

Lights	Four adjustable LED light fixtures
Luminous flux*	8700 lumens per fixture 34,800 total lumens
Coverage area	11,000 sq ft
Power draw	60 watts per light fixture
Light height	20 feet (6.1 meters) fully extended; lights operate at any height
Batteries	400 Ah, wired as a 24-volt system
Solar	730 W
AC charger	40 A
Deployed footprint	158 × 83 in. (401 × 211 cm), L × W
Drawbar	Folding drawbar with 2-inch ball hitch
Travel height	108 in (273 cm)
Weight, approx.	1550 lb (703 kg)

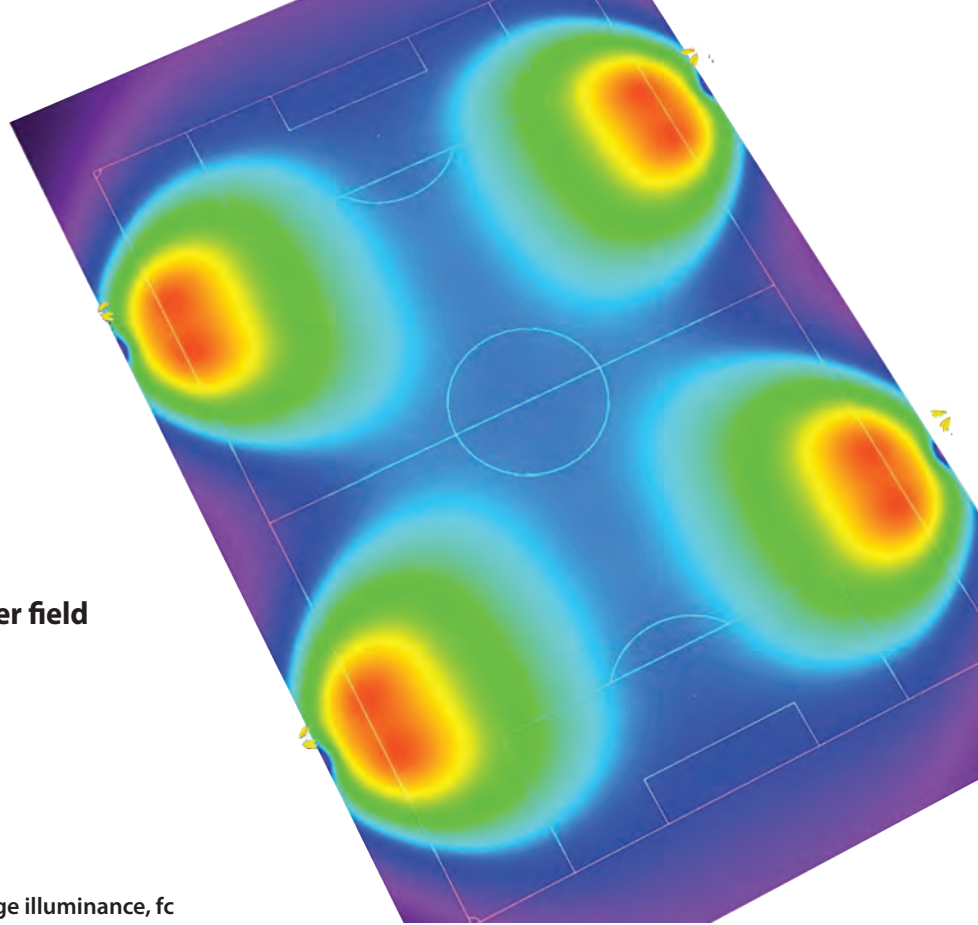
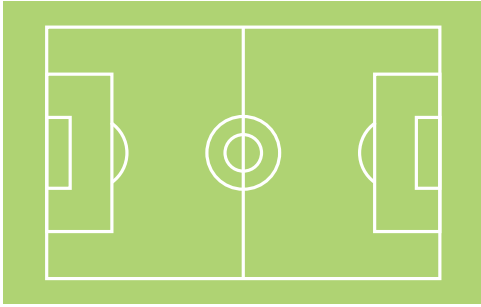
## Options

- 24/7 digital timer
- Asset Manager for GPS location

\*Fixed brightness, light fixtures are not dimmable.



Economy Solar Light Tower  
Model WLTS-SM



### Four light towers on a regulation soccer field

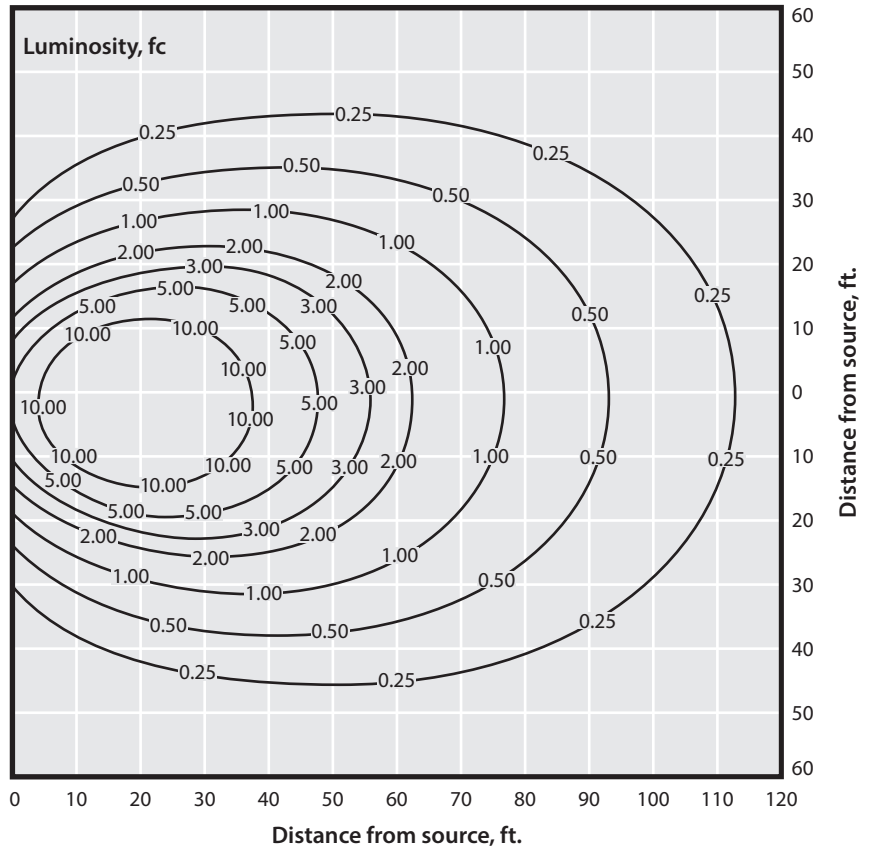
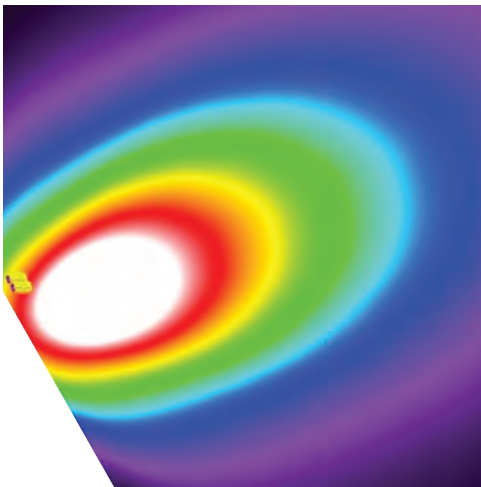
Lights	Four 60-watt fixtures per tower
Light height	20 ft.
Lighting area	400 × 250 ft.
Total acreage	2.2960
Illuminance	0.82 fc average across entire area

Average illuminance, fc



### Single light tower isolines

Lights	Four 60-watt fixtures
Light height	20 ft.
Lighting area	110 × 100 ft.
Total acreage	0.2525
Illuminance	2.38 fc average across entire area



Typical recommended light levels based on Illuminating Engineering Society (IES) documents except where noted: general construction, 10 fc; self-parking, 1 fc; active industrial yards, 5 fc; haul roads, 0.5 to 1 fc; flagger, 5 fc (per MUTCD); quarries & pit mines, 5 fc.



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**Reduce your carbon footprint and provide light to your jobsite with a solar-powered towable light tower from Hawthorne Power Systems.**

**Call 858.376.6881 for more information or scan the QR Code.**

