

Solar Light Tower Series

High-powered LED Lighting



ABOUT OUR TOWERS

The Sunray™ Solar Light Tower incorporates our latest technology in portable solar lighting. Four heavy duty LED light fixtures with ultra-high intensity, state-of-the-art LED's and replaceable modules to keep future replacement cost down. Proprietary engineered LED drivers provide efficient power to the LED lamps with three brightness settings from which to select. This gives the user complete control over brightness vs. battery performance. Select from 40W, 85W or 160W settings and up to 105,000 lumens.

These high performance light fixtures are designed to maximize light utility with very little "lost" light. To maximize battery life, the control is equipped with several selections including automatic on/off at dusk and dawn and settable run times from 3 to 12 hours. To maximize charge time we made the solar array tiltable to 40°.

Easy-to-read meters let you quickly determine the best orientation to collect sunlight. A built-in charger with an external charge receptacle makes it easy to charge the maintenance-free battery bank if needed.

Features

- ✓ No fuel, no fuel trips, no fuel spills, no fuel bills
- ✓ Virtually maintenance free: no engine, no alternator
- ✓ Power saving mode
- ✓ Optional Motion Sensor
- ✓ Low battery power indicator visible from a distance

Applications



TRAFFIC

Can be easily maneuvered, set up and controlled to work effectively in most traffic settings



CONSTRUCTION

A fitting option for construction conditions where reliable lighting sources are needed



MINING

Works well, both in function and sustainability, in many mining scenarios



UTILITIES

Multipurpose use for utility organizations that rely on functional, sturdy equipment



SECURITY

Ideal for temporary locations with either poor, substandard or no lighting



Sunray LTS-80

National's Sunray LTS-80 Solar Light Tower is packed with many of the same features available in our larger towers. High intensity LED's combined with our own control design maximizes light output and makes it simple to select runtime hours and day of the week. By separating the control from the battery enclosure, batteries stay safe and secure.

Solar towers don't emit noise or fuel vapors, and because they collect sunlight during the day to recharge the battery pack, they need very little maintenance. This makes them ideal for places like public events, residential neighborhoods, and security areas. Lamps can be tilted and turned to face almost any direction.

- *No fuel, no fuel trips, no fuel spills, no fuel bills*
- *Sealed, maintenance-free batteries*
- *Hourly, daily, and dusk-to-dawn timer*
- *Three brightness settings*
- *Rugged design*
- *51,200 total lumens*

Specifications

Lamps	(4), 80W each, modular type optional elec. tilt
Brightness	12,800lm @ 80w, 8,530lm @ 50w, 4,260lm @ 25W
Dimmer	Low, med, high
Solar Array	500W, 750W, 1,000 optional
Batteries	AGM 440Ahr, 660Ahr optional
Mast Height	20'
Winch	Manual with optional electric
Width across fender	78"
Length	121"
Weight	2,000 lbs
Battery Charger	30A, 110VAC , external plug for charging
Tires/Wheels	ST205/75D15



750 Watt Model



Four LTS-80 on Soccer Field

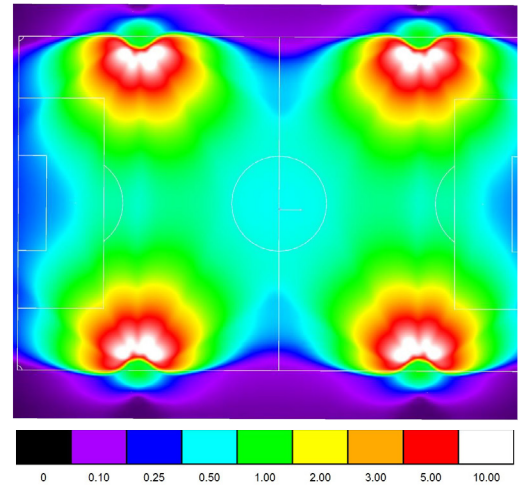
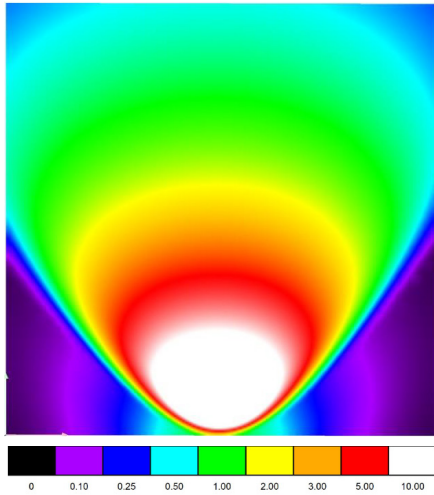
Lights (4) 80 watt, high intensity, modular lamps

Light Height 20 ft.

Lighting Area 400 × 250 ft.

Total Acreage 2.2960

Luminosity 1.29 fc average across area



LTS-80 Color Rendering

Lights (4) 80W lamps

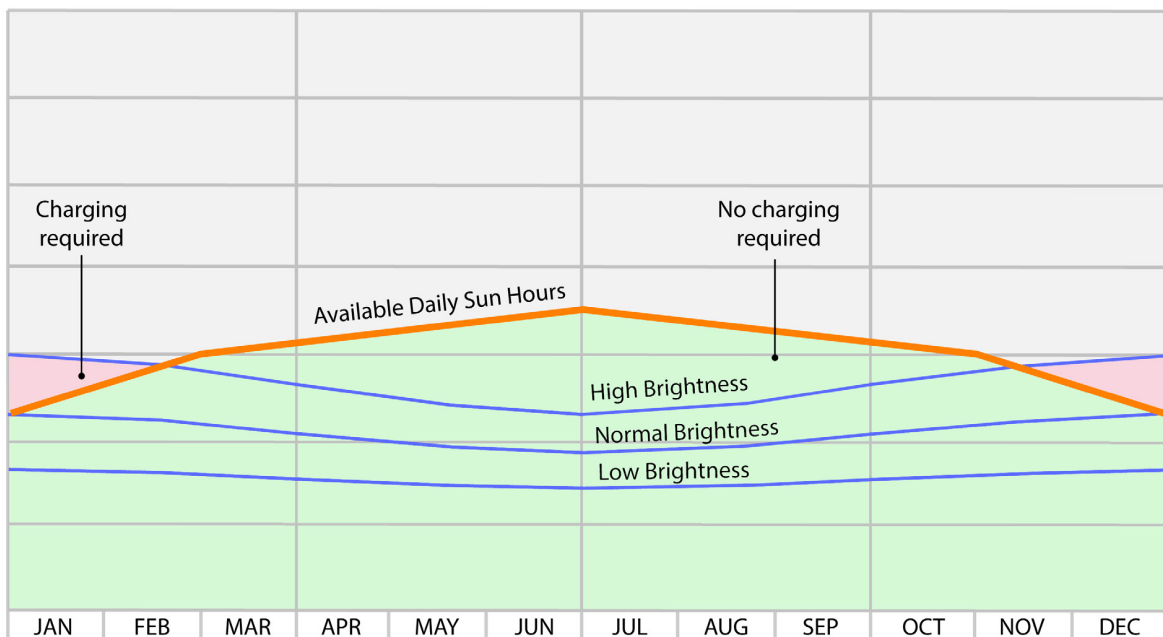
Light Height 20 ft.

Lighting Area 100 × 100 ft.

Total Acreage 0.23 acres

Luminosity 2.36 fc average over entire area

80 Watt Lamp Performance*



*Curves describe dusk to dawn, five nights of operation. Contact the factory for location and usage.

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Sunray LTS-160

National's LTS-160 Solar Light Tower is our brightest and boldest in the solar series. With exceptionally powerful 160W lamps, this tower can fulfill virtually every lighting need. It's versatile enough to be placed in most environments, can be used almost anywhere and is designed for maximum efficiency. Additionally, its three brightness settings put you in control of its battery usage, so you can manage how long to go before recharging.

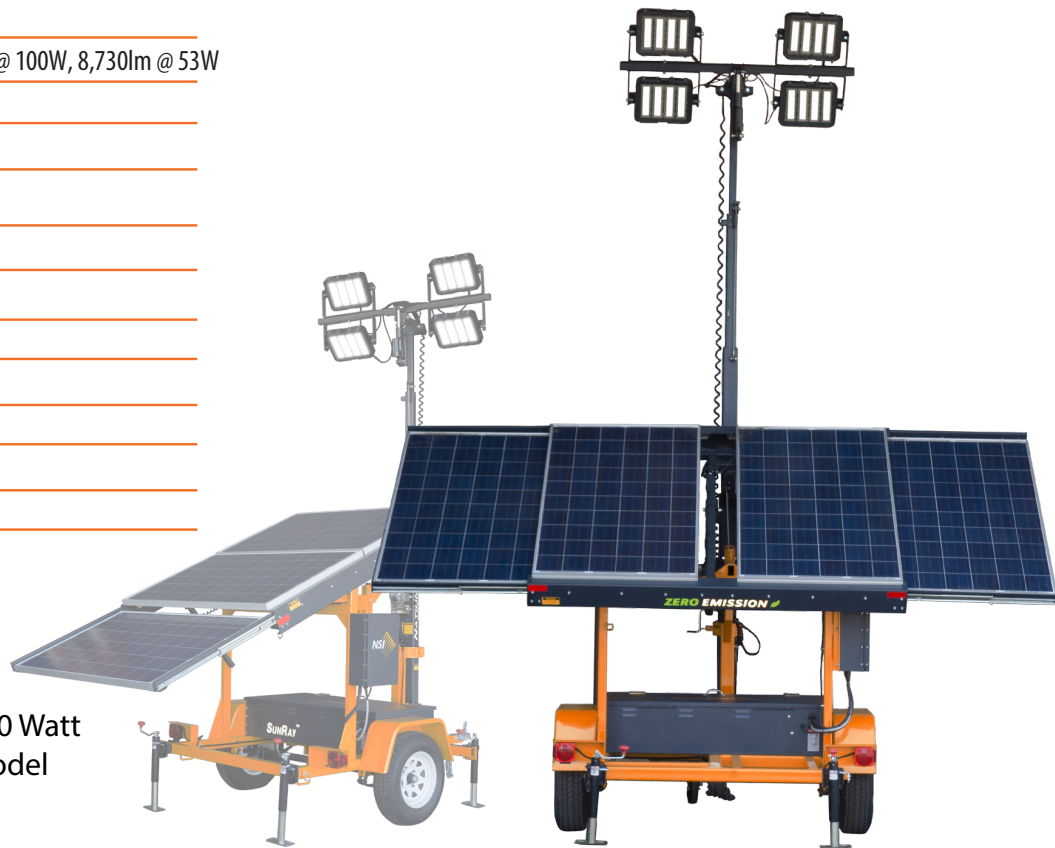
To maximize solar charging, we installed LED meters for the solar array. Now you can position your tower by pointing the array at the sun and view its charge output. Dual battery controllers monitor battery charging and automatically keep the batteries performing at optimum charge. By separating the tower control from the battery box, you don't have to worry about rental customers accessing batteries.

- *No fuel, no fuel trips, no fuel spills, no fuel bills*
- *Sealed, maintenance-free batteries*
- *Separate control from battery enclosure*
- *Slide out solar collectors to minimize foot print*
- *Custom coiled cord to reduce sagging*
- *104,800 total lumens*

Specifications

Lamps	(4) 160W each, high intensity, modular lamps
Brightness	26,200lm @ 160W, 17,460lm @ 100W, 8,730lm @ 53W
Dimmer	Low, med, high
Solar Array	750W, 1,000W optional
Batteries	AGM 660Ahr
Mast Height	20'
Winch	Manual with optional electric
Width across fender	78"
Length	121"
Weight	2,500 lbs
Battery Charger	30A, 110VAC, external plug
Tires/Wheels	ST205/75D15

750 Watt Model



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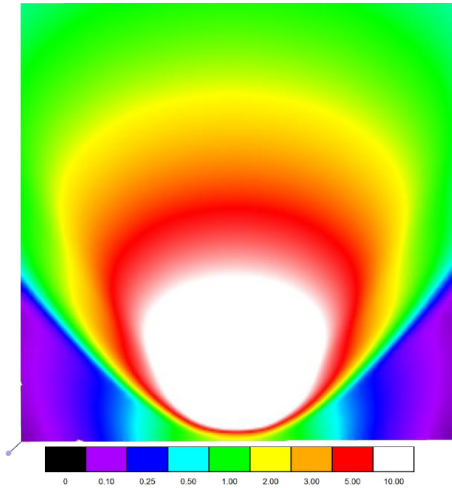
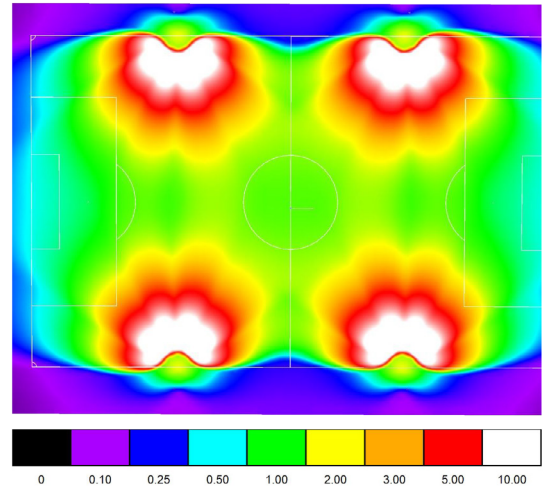


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Four LTS-160 on Soccer Field

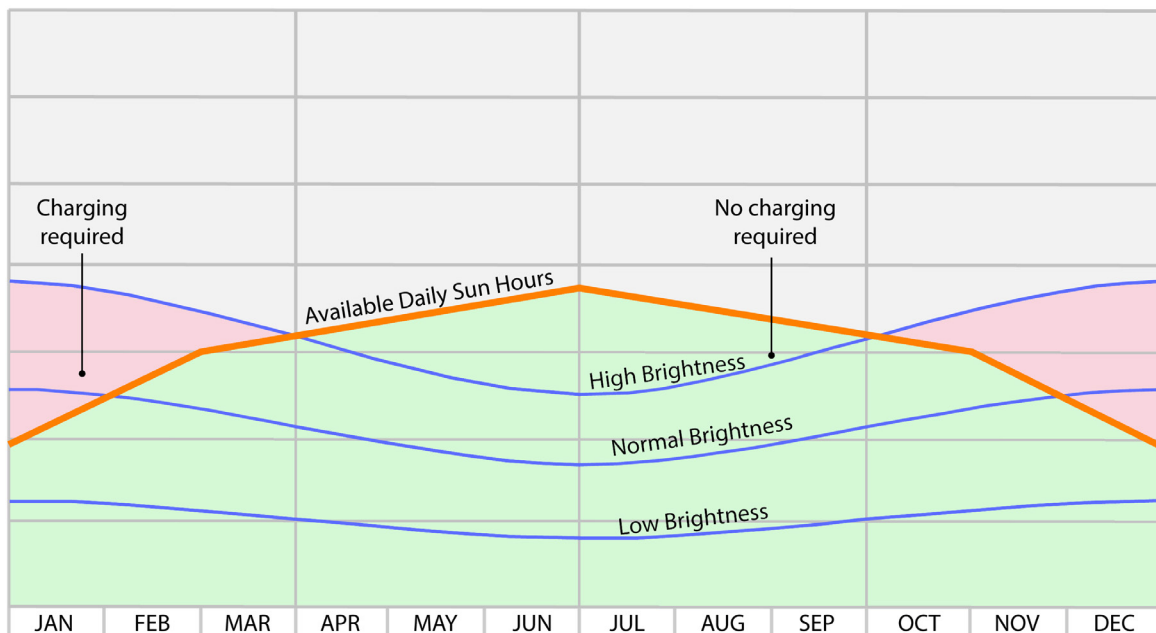
Lights	(4) 160W high intensity, modular lamps
Light Height	20 ft.
Lighting Area	400 × 250 ft.
Total Acreage	2.2960
Luminosity	2.67 fc average over entire area



LTS-160 Color Rendering

Lights	(4) 80W lamps
Light Height	20 ft.
Lighting Area	100 × 100 ft.
Total Acreage	0.23 acres
Luminosity	4.42 fc average over entire area

160 Watt Lamp Performance*



*Curves describe dusk to dawn, five nights of operation. Contact the factory for location and usage.



Sunray LTS-300H

National's LTS-300H Engine/Solar Hybrid Light Tower combines solar power and a diesel generator to give you the best of both energy sources. The diesel generator charges the AGM batteries during cloudy or poor weather days and on sunny days the solar array contributes to charging.

The LTS-300H has an auto-start feature making unattended operation simple. Set it for dusk-to-dawn operation, select the days the tower will turn on, set the engine control center to auto-on and the on board control does the rest. The system monitors low fuel and oil pressure in the background and displays alarms to help diagnose problems.

- Diesel generator with solar assist
- Auto-on/off feature
- Long run time
- Sealed maintenance-free batteries
- Hourly, daily and dusk-to-dawn timer
- 188,000 total lumens

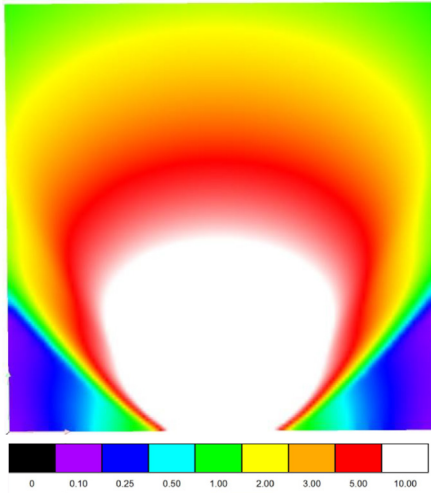
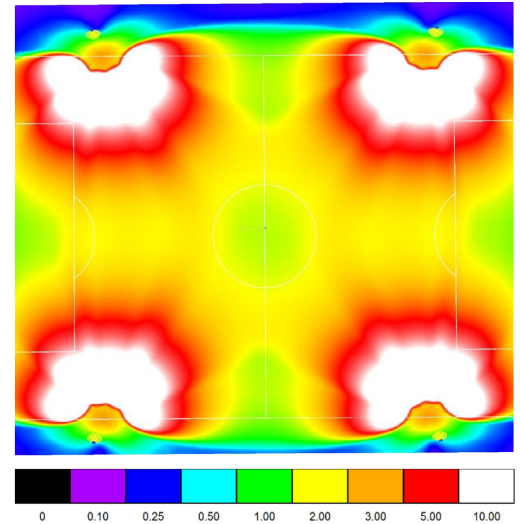
Specifications

Lamps	(4) 300W high intensity modular lamps
Brightness	47,000lm @ 300w, 31,330lm @ 200W, 15,660lm @ 100W
Dimmer	Low, med, high
Solar Array	750W
Batteries	AGM 660Ahrs
Mast Height	20'
Winch	Manual with optional electric
Width across fender	78"
Length	121"
Weight	3,200 lbs
Battery Charger	Optional
Tires/Wheels	ST205/75D15



Four LTS-300H on Soccer Field

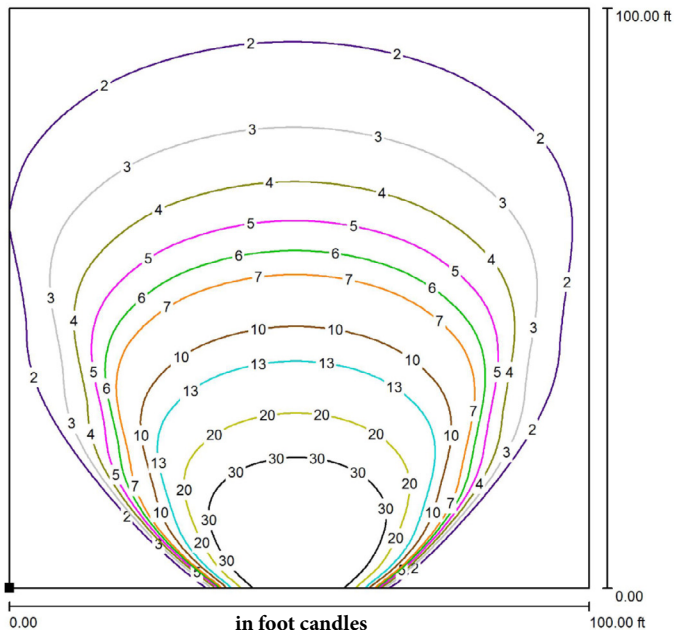
Lights	(4) 300w high intensity modular lamps
Light Height	20 ft.
Lighting Area	400 × 250 ft.
Total Acreage	2.2960
Luminosity	4.75 fc average over entire area



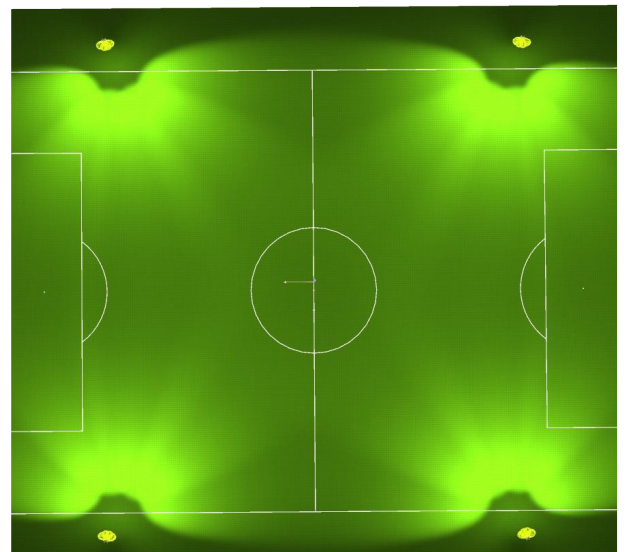
LTS-300H Color Rendering

Lights	(4) 300W lamps
Light Height	20 ft.
Lighting Area	100 × 100 ft.
Total Acreage	0.23
Luminosity	7.70 fc over entire area

LTS-300H ISO Line



Illuminated Soccer Field



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