

INSTALLING OR REPLACING LIGHT BULBS

WARNING - Risk of Electric Shock!
Disconnect power at connection near solar panel before replacing light bulbs. Never replace or install bulbs when rainy or wet.

- **Use only** 1 watt maximum, DC, S14 style, E26 standard base, shatterproof LED bulbs 2200K (color temperature), preferably **Norb COZY** brand.
- **Do not overload:** Each light string is rated for 15 watts, use only recommended 1W, DC, S14 style, E26 standard base bulbs.
- **Work from** a secure stable platform.
- **Work when** weather is calm and dry (no rain, ice or hail).
- **Do not** remove bulbs or inspect product unless disconnected from power source.
- **Do not** open or break bulbs—there are no serviceable parts inside.
- **Do not** operate product with missing bulbs and open sockets.
- **Removal:** while wearing thin gloves (to protect hands) remove bulbs by lightly gripping socket in one hand and rotating bulb counterclockwise with other hand.
- **Replacement:** while wearing gloves, insert new bulb, screw bulb into socket, in clockwise motion, until snug and forming tight seal. Do not over tighten.
- **Original package includes two spare bulbs**, other bulbs available through NorbLighting.com.
- Questions? Call 877-554-4065 or email info@Norb-Light.com.

Lighting Facts Per Bulb

Brightness

40 lumens

Estimated Yearly Energy Cost

\$0, powered by the sun

Life Based on 5hrs/day

5 years

Light Appearance - Soft Amber

Warm

2200 K

Cool

Energy Used

15 watts entire strand

Size - S14 1.75" X 2.375" inserted, E26 standard base

Beam Angle - 360 degrees

40 Lumens - similar to a 4 watt incandescent bulb

Warranty - 2 years

TROUBLE SHOOTING

- **No lights come on:** Check on/off switch to insure it is on. NOTE: it operates on a dark sensing photo-eye, so you must cover the solar panel with a dark towel (during the day) in order to test it out. Check connection point between light string and solar panel. Check solar panel to insure not covered with snow, debris or branches.
- **Individual bulb(s) won't light:** **DISCONNECT FROM POWER**, and only after disconnecting from power, remove faulty bulb/s and check position of brass contact point at bottom of socket, which should be raised to appx. 20 degree angle to insure contact with bulb base. If necessary to raise the brass terminal, use a small flat bladed screwdriver to do so GENTLY and not repeatedly as to avoid breakage.

- **Bulb(s) burned out:** **DISCONNECT FROM POWER** and only after disconnected, remove affected bulb by gently gripping socket and turning bulb counter-clockwise. Replace lamps only with 1 watt, DC, S14 style E26 standard base, LED bulbs, preferably **Norb COZY brand. Product comes with two spare bulbs, others available from NorbLighting.com.**
- **NOTHING WORKING?** Please consult a certified electrician.

SOLAR PANEL CONTAINS LITHIUM BATTERY. DO NOT DISPOSE OF IN REGULAR TRASH. TAKE TO LOCAL BATTERY RECYCLING DROP LOCATION.

LIMITED WARRANTY

This product is warranted to be free from defects in workmanship and materials for up to 2 years from purchase date. If product fails during warranty period (provided failure was not the result of misuse, abuse or improper installation), original purchaser may return product (at own expense) with proof of purchase to Norb Lighting, 14109 Cleveland St. Nunica MI 49448. Or contact us via info@Norb-Light.com for assistance or replacement. REPLACEMENT OR REFUND REQUIRES PROOF OF PURCHASE AND REPLACEMENT IS YOUR SOLE

REMEDY, EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW; ANY IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY. LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES IS HEREBY EXPRESSLY EXCLUDED. Some states and provinces do not allow the exclusion of incidental or consequential damages, therefore the above limitation or exclusion may not apply to you individually. This warranty gives you specific legal rights, but you may have other rights which vary from state to state or province.

ID# 904776 Made in China

FCC Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television

communications. Such interference can be determined by turning the equipment off and on. If this confirms that interference is caused by the device, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet different from that to which the receiver is connected.
- Consult dealer or an experienced radio/TV technician for help.

Norb® SOLAR STRING® 35 Ft

Solar powered outdoor, waterproof/shatterproof LED string lights—with 1 watt DC Norb COZY-spectrum (candlelight-like) vintage style bulbs—for easy install for backyard and patio delight.

- 15 bulbs spaced 2 feet apart.
- **POWERFUL:** can run 6+ hours per night, following sunny day and 3+ hours following cloudy day. **And, NO ELECTRIC BILL!**
- Flexible cord outdoor patio string lights with 1W, DC, E26 standard base, S14 Edison-style shatterproof bulbs in **Norb COZY** candlelike spectrum for outdoor use.
- Warm glow matches relaxation-generating light-spectrum of candle and firelight. Light-spectrum also designed to NOT attract bugs.
- Auto on/off based on sunlight and darkness.
- Continuous illumination or strobe feature.
- Compact solar panel is attractive, takes little space and is easy to install.
- **INCLUDES** ground stake and mounting bracket for rail or wall installations.
- For cozy, romantic, relaxed mood for your patio, pergola, trellis, bistro, lanai, or campsite.
- Provides just the right illumination for cozy romantic mood, for your enjoyment, for outdoor entertaining and dining.
- Can serve as light canopy for outdoor weddings, reunions, birthdays and events . . . perfect for outdoor restaurants and bistros, and designed to last for years.
- To be used as single strand, **NOT CONNECTABLE** (use **Norb STRING** “ plug-in AC version” if you need to connect multiple strands).
- Use only supplied (or **Norb** replacement) 1 watt DC E26 standard base S14, Edison style bulbs.
- Durable rubberized strands and light housings are flexible and easy to install with heavy duty uv resistant cable ties, eyebolts or other appropriate hardware.
- 15 bulbs (plus two spares supplied) are low energy, shatterproof, high efficiency, cool temperature, 1 watt DC polycarbonate, S14 vintage style, E26 standard base LED bulbs.
- **NO ELECTRIC COST!**
- Norb Lighting is US based, service oriented and quality conscious.

Norb SOLAR STRING 35 Ft Light String (15 light sockets plus 2 extra bulbs)

Directions for Installation and Use

Read and follow ALL SAFETY INSTRUCTIONS before assembly, installation and use.

WARNING: When using electrical lighting products, basic safety precautions must always be followed to reduce risk of electric shock, fire and personal injury.

Retain instructions for future reference.

THE SOCIAL LIGHT™
NorbLighting.com

Norb Lighting, LLC 14109 Cleveland Street, Nunica MI 49448 Email: info@Norb-Light.com NorbLighting.com

CAUTION: Risk of Shock and Fire

This is an electrical product with inherent risks! To avoid risk of burns, fire, personal injury or electrical shock, it must be used properly and kept out of reach of children. It is not a toy!

- **USE ONLY 1 watt DC bulbs, E26 standard base LED bulbs.**
- **DO NOT EXCEED 1 watts per bulb.**
- **DO NOT USE AC bulb (use only 1 watt DC LED bulbs with E26 standard base).**
- **Do not** allow bulbs (lamps) to rest upon supply cord, electrical cord or any wire.
- **Do not** cover the light string or bulbs with paper, plastic, cloth or any other material.
- **Do not** remove bulbs or inspect product components unless disconnected from power source.
- **Do not** open bulbs—there are no serviceable parts inside.
- **Do not** operate product with missing bulbs or open sockets.
- **Replace** missing bulbs promptly (before further use).
- **Do not** place near electric or gas heater, candles, fireplace or any other heat or combustion source.
- **Do not** run cord or string through doors or windows, which upon closing could abrade or damage the wire coatings.
- **Do not** touch active bulbs as they are hot to the touch.
- **Do not** submerge in water or other liquid.
- **Do not** secure the wiring of this light string with sharp hooks, staples or nails.
- **Do not** use on trees unless living, fresh, hydrated, mechanically intact and secure against breaking or tipping with no contact between bulbs or sockets and branches or leaves.

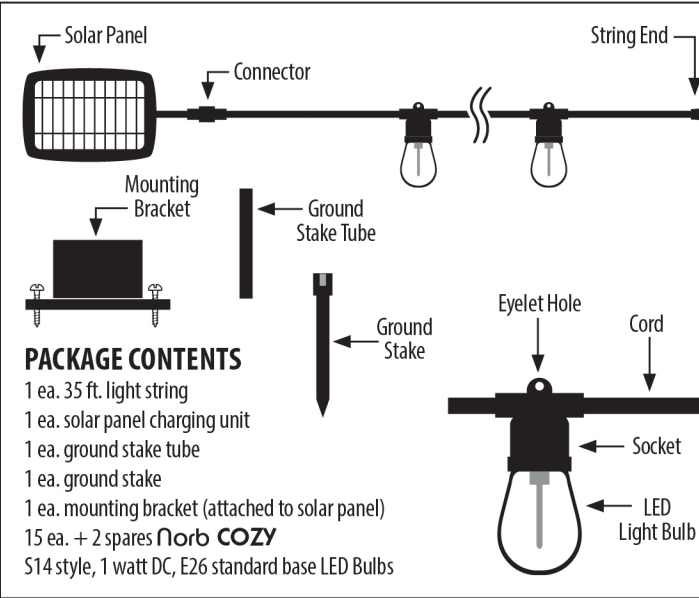
- **Do not** use for marking emergency exits.
- **Do not** use within 16 feet of hot tubs, pools or spas or anywhere it might fall and become submersed in such liquid filled devices.
- **Do not** hang ornaments, clothing or any other object from cord, bulb, wire or any other part of extension cord or light string.
- **Do not** use where water can pool or accumulate near or around extension cord, bulbs, or either end of light string.
- **Install only** using the recommended means of mounting.
- **Not designed for permanent installation**—this is a seasonal use product.
- **Power output:** maximum of 15 watts per light string.
- **Insure** that support object has sufficient structural capacity to support weight of light string and bulbs, even in high wind.
- **Do not** use product for other than its intended use.
- **Exercise good sense,** common sense and caution in accord with your intended use.
- **If in doubt** about the installation or application of this product, consult info@Norb-Light.com.
- **If not installed and used per instructions,** may cause excess heat or harmful interference to radio communications.

INSTALLATION: Warning

- **Disconnect power** at the solar panel before installing or servicing this product.
- **Tools needed** for installation (not included) include safety glasses, ladder, supporting hardware (based on your setting which may include eyebolts, brackets, heavy duty uv resistant cable ties and/or guide wire), pliers, thin gloves, screwdriver and scissors are commonly employed. Typical set up and installation time is 20-30 minutes.

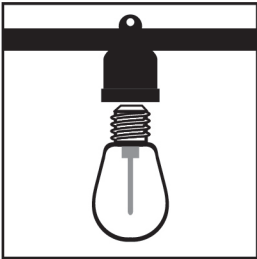
STEP 1: INSPECT Carefully remove components from packaging and lay them out on a smooth work-surface. Carefully uncoil light string. Inspect all aspects of product carefully. Return product to manufacturer if any part of the light string, cord, or connector is cut, damaged, cracked, frayed or if any connector or lamp-socket is damaged or loosened, or any wire is exposed.

NOTE: If any part is missing, do not attempt to assemble and use. Contact Norb Lighting info@Norb-Light.com for shipment of missing part.



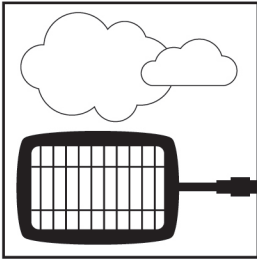
STEP 2: SELECT LOCATION FOR SOLAR PANEL and visualize where you would like the light string to be. Things to keep in mind:

- **Light string is 35 feet long.** NOTE: The first 5 feet (from solar panel) have no bulbs.
- **Solar panel must face south** in order to capture most energy from sun.
- **Solar panel can peg into the ground, or be mounted into railing, siding or other suitable support.**
- **Solar panel uses light sensor for ON/OFF**, so must be located away from nighttime illumination.



STEP 3: INSTALL BULBS With light string un-plugged (no power), insert only 1 watt DC LED Bulbs with standard E26 base into each socket and gently tighten clockwise until fully seated in rubber seal. Do not over tighten.

STEP 4: INSTALL SOLAR PANEL, AND CHARGE BATTERY: Once a suitable location is chosen, securely install solar panel with light panel facing south at an angle perpendicular to midday sun. Your options are as follows:



- Using ground stake, place stake securely into ground in suitable location. Or,
- Using 3 each, 5/8 inch long pan-head screws to mount solar panel securely into rail or siding.

LET CHARGE ONE FULL DAY BEFORE CONNECTING LIGHT STRING. Or alternatively precharge using micro USB cable (not included).

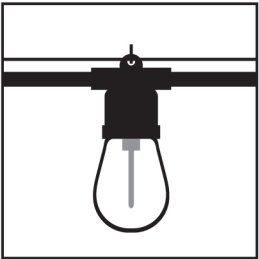
See next page for **STEPS 5 & 6.**

INSTALLATION: Warning *continued.*



STEP 5: TEST Connect the male end of the light string into the female end of the Solar Panel cord. On the back side of the solar panel, turn the switch to "ON". Then, test the bulbs by covering the solar panel with a dark towel (to activate the sensor). Check each bulb to see that it is lit up. If not, adjust tension on bulb, or try another bulb.

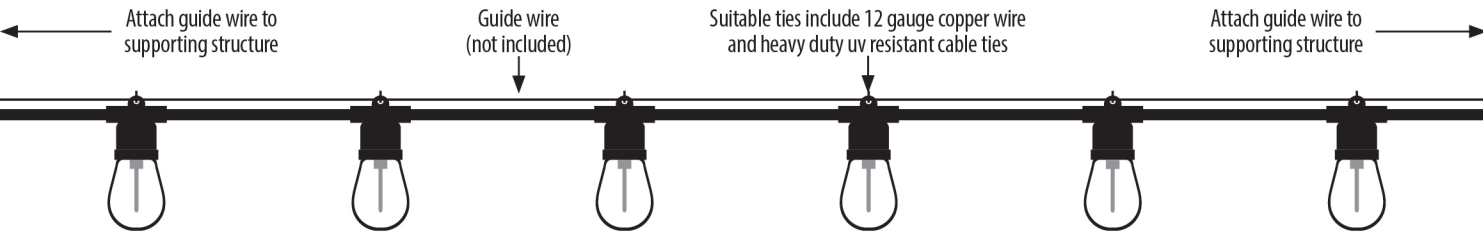
STEP 6: INSTALL LIGHT STRING with light string UN-PLUGGED (no power) attach "eyelet holes" to supporting



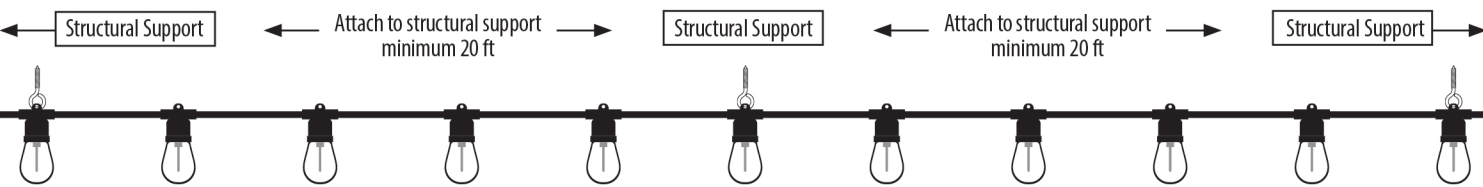
structure or guide wire using smooth surfaced fasteners such as 12 gauge copper wire, eyebolts or brackets (not included), or heavy duty uv resistant cable ties.

NOTE: maximum unsupported distance is 20 feet.
NOTE: use only appropriately rated guide wire (cable) for spans beyond 20 feet.
NOTE: light sockets must hang downward, not sideways or upward. This is to prevent water from getting in the socket.

Installation Method A: Using a guide wire with ties (not included).



Installation Method B: Attach to a structure.



ROUTINE MAINTENANCE

- **Regularly inspect condition of fasteners** and fix or replace if showing wear or insecure attachment or support.
- **Regularly inspect light bulbs** and replace only with 1W DC standard E26 base LED bulbs if burned out or broken—**after unplugging (disconnecting power source).**
- **Regularly inspect condition of light string and power cord (from solar unit).** If light string, sockets or any other aspect of light string or power cord are showing signs of abrasion or wear and tear, then discontinue use and properly dispose of.

CAUTION: DO NOT ATTEMPT TO CONNECT SOLAR STRINGS FROM END TO END. THEY ARE TO BE USED ONE STRING PER SOLAR PANEL ONLY.

DISCONNECTING & STORING STRING LIGHTS: Warning

- **Carefully remove** product from its support including trees, branches, or bushes in order to avoid any undue strain or stress on the product. Neatly wrap product and store in cool dry place protected from sunlight.
- **When ready to reuse:** FOLLOW THE SAME STEPS AS FOR INSTALLATION (SEE ABOVE).