

Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

24c

luminar **OUTDOOR™**

70990

LED 24 FT. OUTDOOR STRING LIGHTS



Visit our website at: <http://www.harborfreight.com>
Email our technical support at: productsupport@harborfreight.com

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

⚠ WARNING

Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.

WARNING SYMBOLS AND DEFINITIONS

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
	Addresses practices not related to personal injury.

IMPORTANT SAFETY INSTRUCTIONS

When using electrical products, basic precautions shall always be followed including the following:

1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

- Do not use these products outdoors unless marked suitable for indoor and outdoor use. When products are used in outdoor applications, connect the product to a Ground Fault Circuit Interrupting (GFCI) outlet. If one is not provided, contact a qualified electrician for proper installation.
- Do not mount or place near gas or electric heaters, fireplaces, barbecue grills, candles or other similar sources of heat.
- Do not secure the wiring of the product with staples or nails, or place on sharp hooks or nails. Install only using the mounting means provided.
- Do not let lamps rest on the supply cord or on any wire.
- Do not use this product for other than its intended use.
- Do not hang objects from cord, wire, or light string.
- Do not close doors or windows on the product or extension cords as this may damage the wire insulation.
- Do not cover the product with cloth, paper or any material not part of the product when in use.
- NOT FOR EMERGENCY LIGHTING.
- CAUTION - RISK OF ELECTRIC SHOCK. Do not use if outer lamp envelope is damaged or broken.
- This product has a polarized plug (one blade is wider than the other) as a feature to reduce the risk of electric shock. This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Do not use with an extension cord unless plug can be fully inserted. Do not alter or replace the plug.

- Read and follow all instructions that are on the product or provided with the product.

- This product employs overload protection (fuse). A blown fuse indicates an overload or short-circuit situation. If the fuse blows, unplug the product from the outlet. Also unplug any additional strings or products that may be attached to the product. Replace the fuse as per the user servicing instructions (follow product marking for proper fuse rating) and check the product. If the replacement fuse blows, a short-circuit may be present and the product should be discarded.

15. SAVE THESE INSTRUCTIONS

CAUTION

- To reduce the risk of fire use only type S lamps, 1 Watt maximum.
- To reduce the risk of fire do not deliberately reposition either lampholder contact.



Model No. 70990

If connecting to a string light that does not have a Wattage (W) rating {found on the tag within 6 inches of the plug} calculate the wattage as follows: Multiply the current (___ A) which is on the flag-type tag by 120.

For Example: String light is rated 120V, 60Hz, 0.1Amps. $0.1 \times 120 = 12$ Watts.

For a 5A fuse:

Add the wattage of each string light together for a total of 432 Watts or less (Do not exceed 432 Watts.)

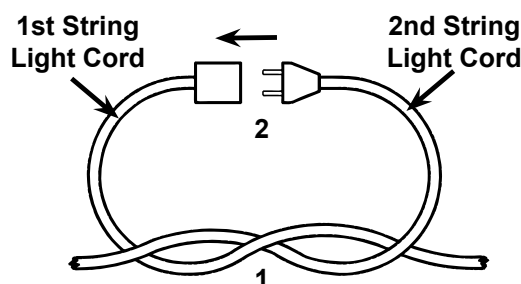
General Safety Instructions

1. Keep proper footing and balance at all times during installation.
2. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.
3. Use as intended only.
4. Maintain labels and nameplates on the String Light. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
5. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

6. Connecting Cords

To reduce the risk of the cord plugs pulling apart, do one of the following:

- a. Make a knot as shown below then connect the cords:



- b. Or, use a plug-receptacle retaining strap or connector designed to hold extension cords ends together.



SAVE THESE INSTRUCTIONS.

SPECIFICATIONS

Input	120VAC / 60Hz
Single LED Bulb	1 W

Single String	12W / 0.1A
Maximum number of String Lights that can be connected together	25

INSTALLING/REPLACING LED LIGHT BULBS



Read the **ENTIRE** IMPORTANT SAFETY INSTRUCTIONS section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠ WARNING

TO PREVENT SERIOUS INJURY: Unplug the String Light from its electrical outlet and allow it to cool before performing any procedure in this section.
Do not replace light bulbs during rain or when wet.

1. Unscrew existing bulbs carefully, they should be tight to keep moisture out.
2. Carefully consider the number of strings and the total wattage when selecting bulb wattage. **Do not exceed 432 watts with a 5A fuse, all Strings combined.**
3. Replace with medium base 1 Watt LED light bulbs. Screw each bulb into socket clockwise until top of socket forms a tight seal around the light bulb and bulb makes solid contact with socket. **Incorrectly installed bulbs will not seal correctly and can cause injury or death from electric shock.**

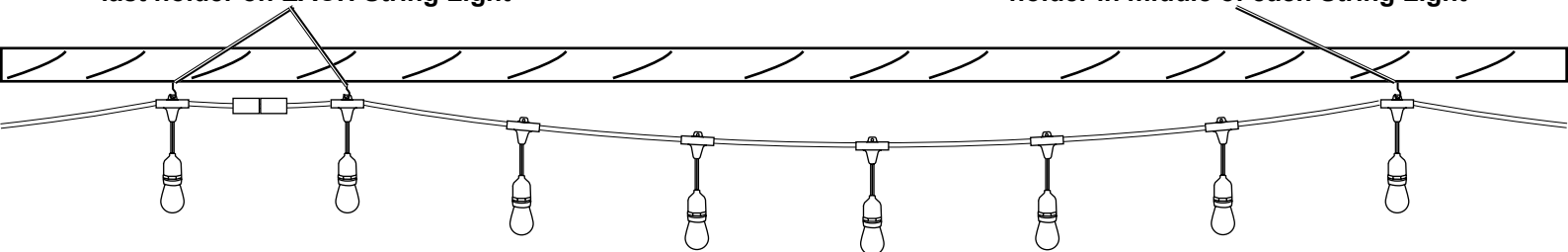
Installation

Note: Attachment hardware, such as hooks or nylon cable ties, is sold separately.

1. If a guide wire is not used, connect securely to structure at **the beginning**, **the middle** (the 6th or 7th bulb holder), and **the end** of **EACH** String Light.

Attach to structure at first and last holder on EACH String Light

Attach to structure to 6th or 7th holder in middle of each String Light



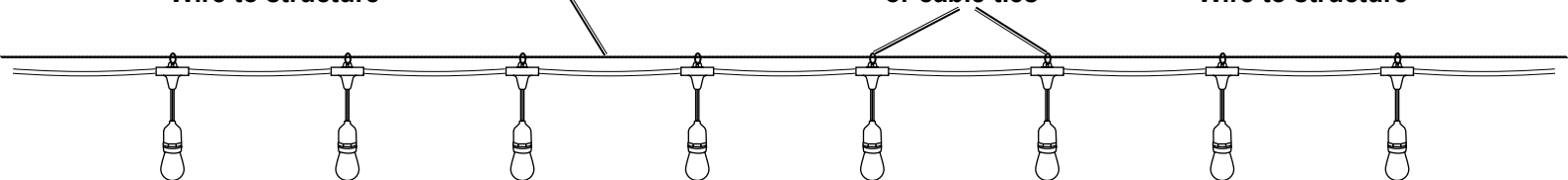
2. If attaching to guide wire, attach the ring at the back of **every** bulb holder to the guide wire using a S-hook or cable tie (sold separately).

← Anchor Guide Wire to structure

Guide Wire

Attach using S-hooks or cable ties

Anchor Guide Wire to structure →



3. **BEFORE EACH USE**, inspect the general condition of the tool. Check for:
 - loose hardware,
 - damaged cord/electrical wiring,
 - cracked or broken parts, and
 - any other condition that may affect its safe operation.

Fuse Replacement

1. Grasp plug and remove from the receptacle or other outlet device. Do not unplug by pulling on cord.
2. Slide open fuse access cover on top of attachment plug towards blades.

Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Replacement parts are not available for this item. Reference UPC 193175523419.

Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. **THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.**

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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