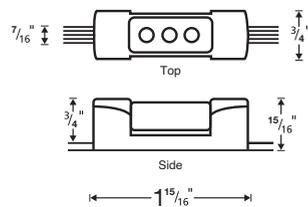


## IMPORTANT

The following instructions are provided to assure safe installation and operation of LED Brite Strip. Please read carefully before connecting or installing LED Brite Strip.

- LED Brite Strip is presently Engineer Testing Laboratories (ETL) listed for indoor and protected outdoor locations ("dry locations").
- Do not mount or support LED Brite Strip in a manner that can cut the outer jacket or damage wire insulation.
- Always make sure power is disconnected from LED Brite Strip before cutting, mounting, attaching terminal block, attaching end cap, or modifying in any way.
- Do not mount in a manner that the bulbs have a clearance of less than the minimum outlined in this instruction manual.
- Assure all wattage limitations listed under "Powering LED Brite Strip" are not exceeded.
- These products may represent a possible shock or fire hazard if improperly installed or attached in any way. Products should be installed in accordance with the owner's manual, current local codes, and/or the current National Electrical Code (NEC).

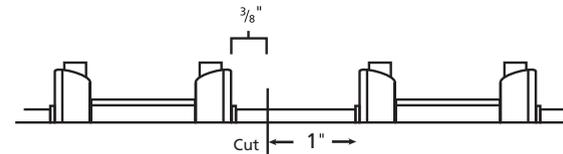
### SPECIFICATIONS:



- 2, 3, or 4 bulbs per foot configuration
- Use only 24 Volt Direct Current Class 2 LED Driver, NSL part number LEDDR-24-100W
- Totally parallel wired
- LED Festoon bulbs = 0.72 watts
- LED MR-11 bulbs = 2.0 watts

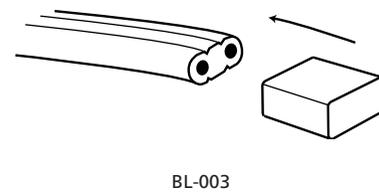
## CUTTING LED BRITE STRIP

1. Always make sure LED Brite Strip is disconnected from power source before cutting.
2. Remember, in any case, do not exceed 90 watts total.
3. Utilizing a good pair of shears, cut LED Brite Strip between appropriate bulb sockets. You will need at least 1" of wire to attach terminal block and junction box. You will need at least 3/8" of wire to attach the end cap. There is ample wire between bulb sockets in the BL-2 (2 sockets per foot) and BL-3 (3 sockets per foot) to provide 1 3/8" of wire. You will have to sacrifice one bulb socket to acquire 1 3/8" of wire in the BL-4 (4 sockets per foot) design.



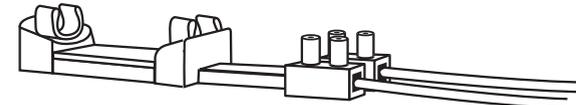
## ATTACHING END CAP

1. Push BL-003 end cap onto 3/8" cut from above so that end cap is snug.



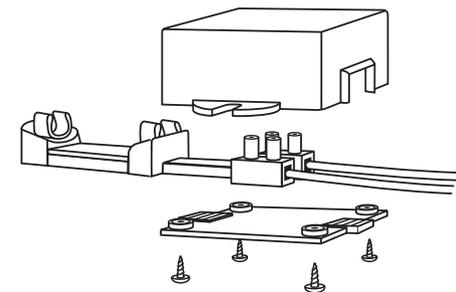
## ATTACHING POWER CONNECTOR

1. Assure both LED Brite Strip run and 12 gauge power feed are without power.
2. Strip insulation back 3/8" on both LED Brite Strip lead and 12 gauge power feed leads.
3. Place stripped LED Brite Strip leads into one side of LW-1 terminal block connector. Tighten screws on top of LW-1 connector into LED Brite Strip leads.
4. Place stripped 12 gauge power feed leads into other side of LW-1 connector. Tighten screws on top of LW-1 connector into power feed leads.



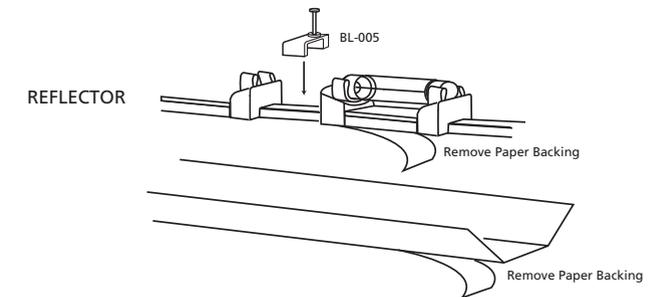
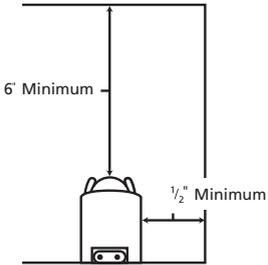
## ATTACHING JUNCTION BOX

1. In order to meet ETL, and NEC code, each LW-1 connector must be placed in an approved junction box with strain relief (BL-JB or other ETL listed box).
2. Assure power is removed from power feed and connector.
3. Place LED Brite Strip connection assembly into top of BL-JB junction box.
4. Assure entire LW-1 connector assembly fits into junction box and enclose with BL-JB bottom. Tighten four junction box screws through bottom into top of BL-JB.



## MOUNTING LED BRITE STRIP

1. Always make sure power is disconnected before modifying, mounting, or installing a section of LED Brite Strip.
2. Do not mount LED Brite Strip in a situation that does not have at least 1/2" clearance on the side of the fixture, and 6" clearance above the bulb. Make sure area is well ventilated to dissipate bulb heat. Wall or cabinet mount only.
3. Do not exceed 90 watts total in any single run.
4. In most applications you simply have to clean mounting surface, remove paper backing from double-sided tape on bottom of each socket, and attach LED Brite Strip socket-by-socket to mounting surface.
5. In situations where LED Brite Strip is continually mounted with bulbs facing down, we suggest both affixing with double-sided tape as per above, and using BL-005 mounting clips every 12".
6. In applications utilizing BLF reflector, or BLFAS fascia extrusion, follow steps #1, #2, and #3 above. Clean both the mounting surface and the extrusion for good adhesion of double-sided tape. Remove paper backing on the double-sided tape from bottom of extrusion. Attach extrusion to mounting surface by firmly pressing extrusion onto mounting surface. Remove paper backing from double-sided tape on LED Brite Strip sockets. Attach LED Brite Strip by firmly pressing sockets onto extrusion.

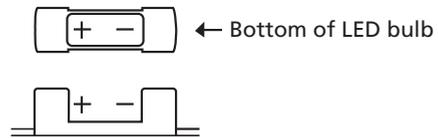


## INSTALLING BULBS

Assure power is disconnected from LED Brite Strip.

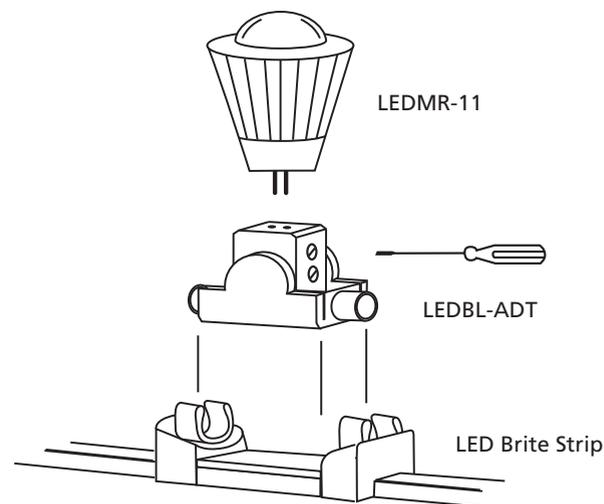
### LED FESTOON BULBS:

- For LED festoon bulbs, note that LED PC Board faces upward, when LEDs are visible.
- Turn LED festoon bulb over and notice polarity markings "+" and "-" on reverse side of PC board. Place LED festoon bulb into LED Brite Strip socket with polarity markings on bulb matching polarity markings on bulb socket ("+" to "+", and "-" to "-"). After checking proper polarity matching, firmly push LED festoon bulb into socket, PC Board and LEDs are facing up.
- Recheck bulb clearances of 1/2" minimum side bulb clearance and 6" top bulb clearance.



### LED MR-11:

- Loosen upper screws on both sides of LEDBL-ADT.
- Place LEDMR-11 contacts into holes on top of LEDBL-ADT. Polarity does not matter.
- Tighten upper screws on both sides of LED Brite Strip socket.
- Firmly push LEDBL-ADT into LED Brite Strip socket. Polarity does not matter.
- Recheck bulb clearances of 1/2" minimum side bulb clearance and 6" top bulb clearance.



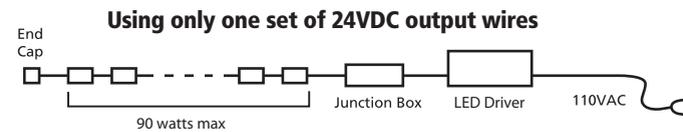
## POWERING LED BRITE STRIP

- Check to see that each single run has a terminal block, end cap, and junction box attached.
- Use only 24 Volt Direct Current Class 2 LED Driver, NSL part number LEDDR-24-100W.
- Run 12 gauge lead wire from LED Brite Strip to LED driver. Check all connections and clearances. Hard wire LED Driver into 110 volt.

### IMPORTANT!

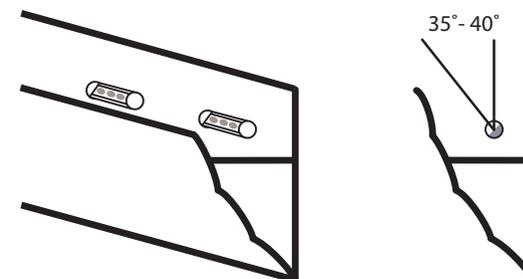
- You may place the following maximum fixtures on a single 24VDC output:

125 LEDBL-24-.7W LED Festoon bulbs —or—  
45 LEDMR-11-2W LED MR-11 bulbs —or—  
any combination not to exceed 90 watts

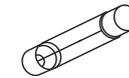


## COVE INSTALLATIONS

For best illumination, cove installations will require each LED Brite Strip bulb to be tilted 35° - 40° away from the adjacent wall. See diagram below.



## ACCESSORIES



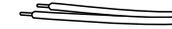
LED FESTOON BULBS  
LEDBL-24-.7W



LEDMR-11 MR-11 design, 2 watt



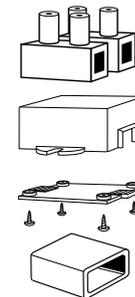
LEDBL-ADT Adapter. Required to mount LED MR-11 bulb into LED Brite Strip sockets



LW-12G/WH 12 Gauge Lead Wire.  
LW-12G/BK To be used from LED Brite Strip to LED Driver.



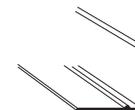
BL-005/WH Brite Strip Nail Clips  
BL-005/BK (30 per bag)



BL-001/WH Connector Assembly Kit:  
BL-001/BK Brite Strip Terminal Block,  
Junction Box, and End Cap



BLF Brite Strip Reflector



BLFAS Brite Strip Fascia  
Extrusion Reflector

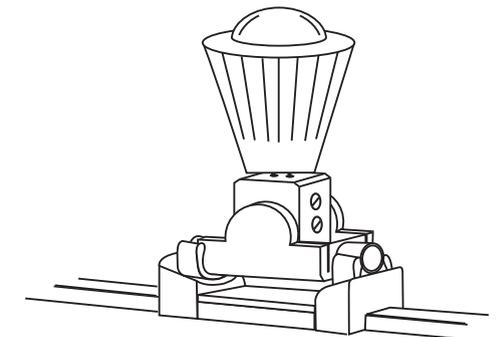
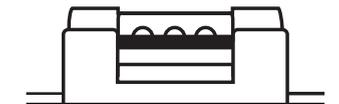
WH = White BK = Black

## INSTALLATION INSTRUCTIONS

# LED BRITE STRIP

THE BRIGHTEST LOW-ENERGY LIGHTING SOLUTION AVAILABLE!

LED efficiency in a festoon bulb or MR-11 flexible linear lighting strip



**NATIONAL SPECIALTY LIGHTING**  
ARCHITECTURAL AND DECORATIVE LIGHTING

LOUISVILLE, CO 80027

www.nslusa.com

© 2008 National Specialty Lighting

