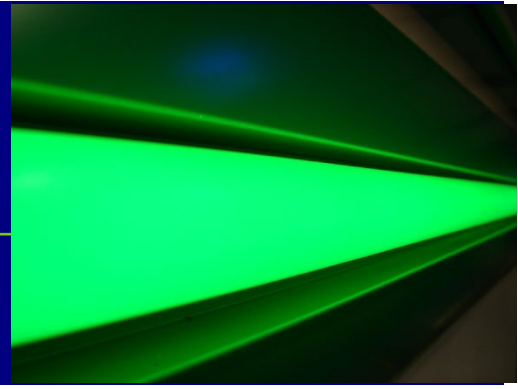


White Lightning Fixtures  
LTD



# LightBar

## INSTALLATION INSTRUCTIONS

VERSION 3A  
45-00-02

*White*  
**LIGHTNING**  
**FIXTURES, LTD**

1512 Blandwood Drive  
High Point, NC 27260  
336-505-8533  
WhiteLightningHK.com



Patented US20130083524A1  
Listed Low-Voltage Luminaire

E506069 Visit [www.whitelightinghk.com/ledsupport](http://www.whitelightinghk.com/ledsupport) to download these instructions

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## A. Revision History

R.3A: 5/26/21	Added information about Vertical LightBar Installations
R.3: 6/27/19	New Document Created

## B. Warranty Information

(Please read instructions in this manual PRIOR to installation of the LightBar product. Failure to follow the instructions listed in this manual may result in a **VOID** of warranty)

**Warranty Terms:** The warranty covers normal use and service. It DOES NOT cover damage caused by vandalism, electrical surges, lightning strikes, and any other acts of God. Any consequential or contingent liability is also excluded from this warranty. Warranty claims must be registered with Blair Companies within thirty (30) days of damage or malfunction. Blair reserves the right to visit the site of the installation or to require documentation of the claim before assuming any responsibility under the provisions of the warranty.

## C. Cautions and Warnings

1. Always disconnect electrical supply before servicing any equipment. Make sure to use proper Lock-out Tag-out (LOTO) procedures, and not just trip a breaker.
2. Connectors are polarized and should mate easily. If an attempt is made to improperly mate the connectors, the contacts inside will be permanently damaged and it will not work. The connectors used in this system are rated IP67 for outdoor waterproof connections suitable for the 24V system used on LightBar. These connectors are not to be replaced by any other field connector. If a connector is damaged, it can be replaced using the supplied pigtailed and weatherproof crimp connectors. For reference, the UL listing for these connectors is: E29179
3. It is the installer's responsibility to ensure the LightBar system is weather proof upon completion of the installation. This includes installing any weatherproof junction boxes on the primary wiring.
4. When cleaning the LightBar or attaching end caps, NEVER use cleaning or adhesive products containing chlorine

(or any derivative of chlorine). Chlorine will damage the LightBar lens over time and cause discoloring and make the lens brittle. A mixture of water and mild detergent works very well to clean the product.

5. When installing LightBar, **NEVER** make the electrical connections while the power supply is energized (hot-plugging). **This will cause irreversible damage to the LEDs which will shorten their lifespan significantly.**

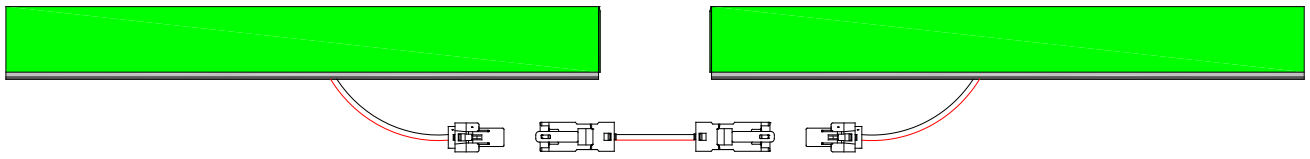
## D. Parts List

Description	Part Number
<b>Power Supply</b>	
60W, 24V	39-01-12
80W, 24V	39-01-43
<b>End Caps</b>	
Blue	39-00-10
Green	39-01-10
Orange	39-02-08
Red	39-04-10
White	39-05-10
Yellow	39-06-10
<b>Accessories</b>	
Sunshade	BSC00003
Adhesive Kit	39-01-16
Gender Adapter	39-01-15
Y Splitter	39-01-13
10' Extension Cable	39-01-14
Split Rivet	17-63-06
Accessory Pack	39-01-17
<b>Mounting Clips</b>	
6" Plastic	21-17-10
Stainless Steel	17-22-83
<b>Lens</b>	
Blue	39-00-11
Green	39-01-11
Orange	39-02-09
Red	39-04-11
White	39-05-11
Yellow	39-06-11

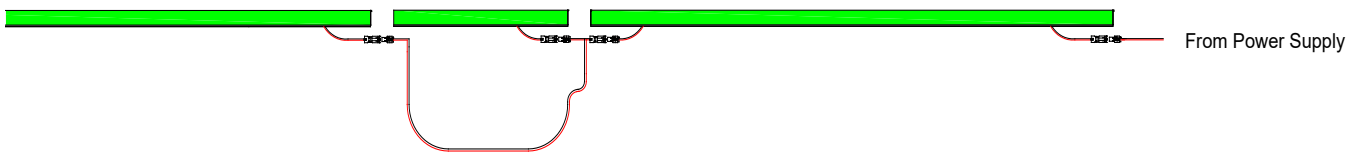
## E. System Wiring Guide

**Note: All secondary wiring components have been UL approved for use in exterior wet-location applications (24 VDC, 60W, Class 2 IP67 Wet Rated).**

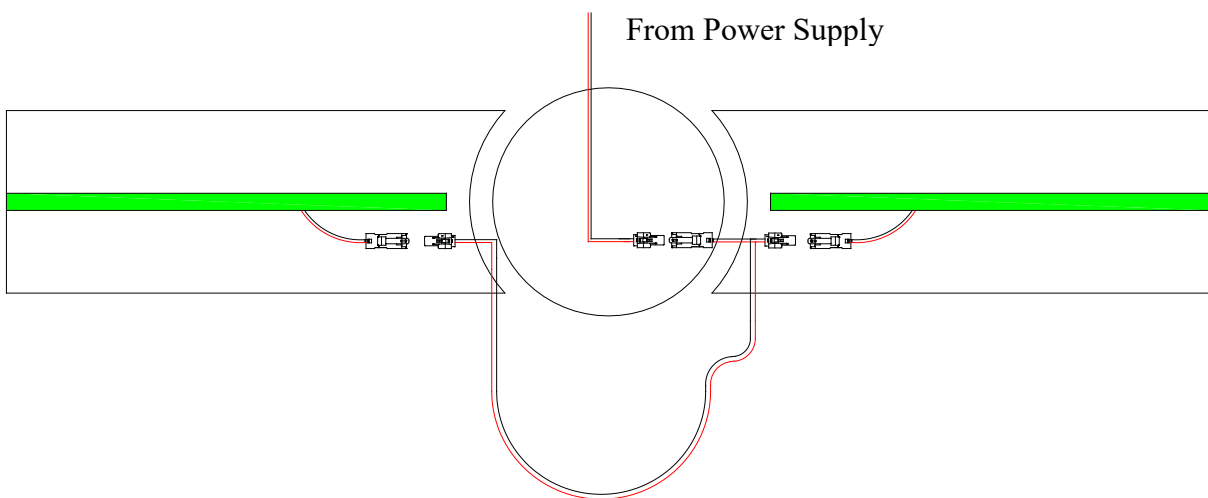
1. The brown, blue, and green wires from the power supply must be connected to an appropriate 90-277 VAC circuits. This can be along the same service as the fascia, or other accent lighting, and should be triggered by the same energy management system. This system can either be a timer or a photocell.
2. All primary wiring to the power supplies must follow local regulatory codes.
3. Secondary (24 VDC) wiring accessories are included in the kit in order to make installation easier for unique fascia situations. **REMEMBER THAT ONE POWER SUPPLY WILL ONLY HANDLE A SET LENGTH OF LIGHTBAR. REFER TO THE NOTE BELOW (Page 6).**
  - a. The Female-Female adapter is used to enable a trimmed section of LightBar (which would otherwise be scrapped) to be used to finish a section. In this situation, two male ends are able to be connected, and power can continue to the last section of LightBar.



- b. The Y Splitter adapter can be used when a field cut disrupts continuity, but the installer wishes to continue power along a single run of LightBar.



- c. The Y Splitter can also be used any time the installer wishes to continue power transmission over a long distance of space where there is no LightBar. This allows the installer to place the power supply wherever is most convenient for providing AC power.



**Note: Due to potential voltage drops, only one Y-Splitter can be used per power supply.**

**Remember to NEVER hot-plug LightBar**

## F. Installing Power Supplies

Power Supply Specifications: 24 VDC, 60W or 80W, Class 2 IP67 Wet Rated  
 INPUTS AVAILABLE - 105-277 VAC, OUTPUT - 24V DC

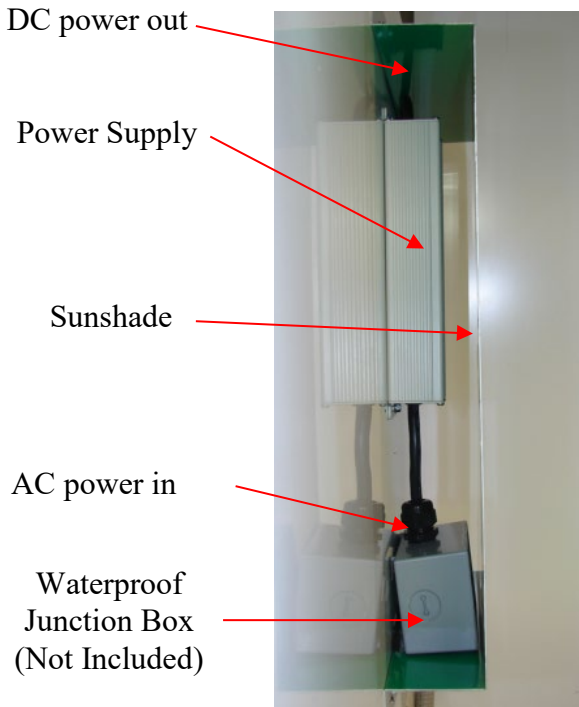
**ONLY USE THE SUPPLIED POWER SUPPLY. NO SUBSTITUTIONS SHOULD BE MADE**

1. Check that the primary supply voltage matches the input range listed on the power supply. (105-277 VAC)
2. Check that the supply circuit has the available current (in Amps) on the circuit. **Note: DO NOT LOAD THE PRIMARY 20A CIRCUITS BEYOND 18A.**
3. Install each power supply. One supply will only power a set length of LightBar, and this length will vary depending on the type of the LightBar itself. **Wiring more than the maximum length of LightBar will result in a dim product or failure.**
4. Refer to the label on the back of each LightBar for the proper number of LEDs per foot as well as the operating current. Using this label and the chart provided below, determine the maximum length of LightBar for a given power supply.

LLB00001 GREEN LIGHTBAR, 25mA, 15LED/ft  
**LB-GR-PC-120-025-GR-FR4-15**  
 Suitable for Wet Locations | Class 2 Only | Mfd: 23Sept17

MAXIMUM LINEAR LENGTH PER POWER SUPPLY		LightBar			
		15 LED/Ft		12 LED/Ft	
		60W	80W	60W	80W
Green/Blue/Yellow/ Orange/White	15mA	56 ft	75 ft	70 ft	94 ft
	20mA	42 ft	56 ft	52 ft	70 ft
	25mA	34 ft	45 ft	43 ft	57 ft
Red/Amber	30mA	35 ft	47 ft	47 ft	63 ft

5. Connect AC source to the primary side of the power supply.
6. Follow all local electrical codes during the installation.



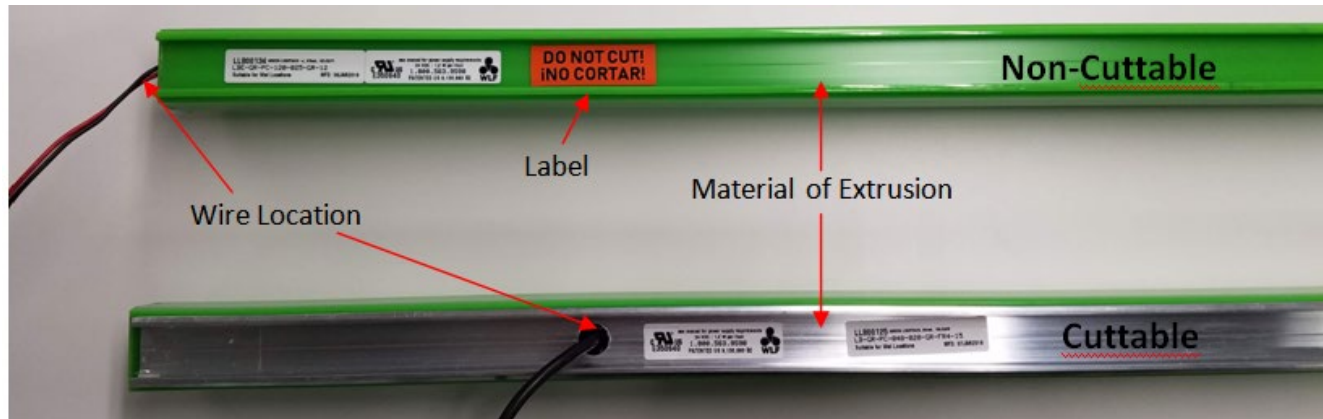
**A sunshade must be installed over every power supply in a manner so that sunlight does not come in contact with the power supply. This is done to ensure long life of the power supply, especially if the product is to be powered during the day. The sunshade can be secured to the mounting surface with screws or rivets.**

Figure 1: Sunshade installed over Power Supply

## G. Installing the LightBar – Overview

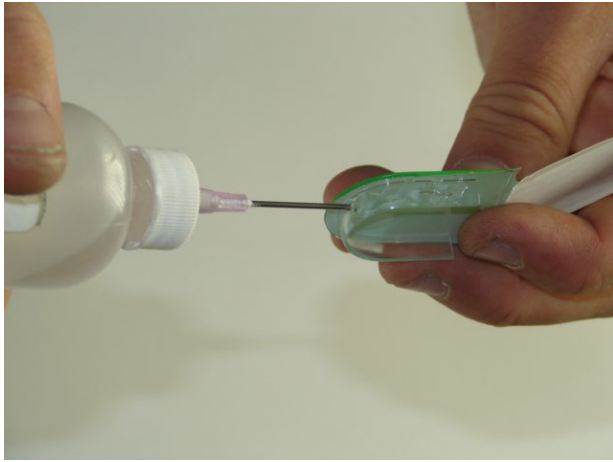
There are two types of LightBar shipped with every order: 1. A fully factory sealed unit constructed entirely of plastic, and 2. A potted unit constructed of plastic and aluminum. DO NOT CUT the fully plastic bars, since there is no way to field seal them from moisture. Only cut the potted units constructed of plastic and aluminum.

**To determine the type of LightBar, refer to the information below:**

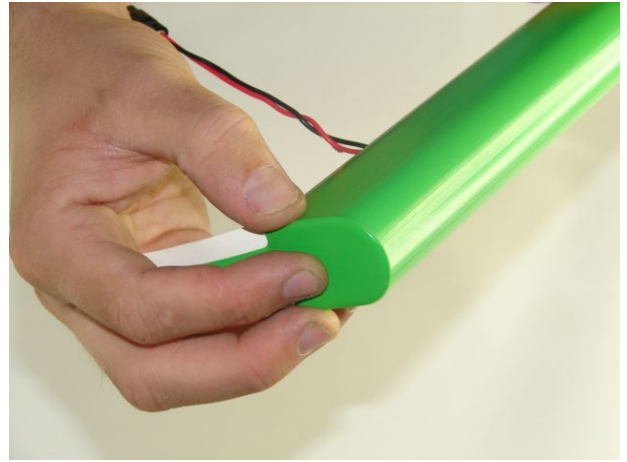


**To cut a piece of Cuttable (potted) LightBar:**

1. Peel of the lens
2. Note where each section has a "CUT HERE" marking on the boards
3. Notice that on one side of the assembly, there are "CUT HERE" marks after every LED, whereas the rest of the assembly is marked after several LEDs. This is so that the installer can trim these bars to the nearest inch in order to get an even illumination during installation. In order to use this feature:
  - a. Measure the necessary length of the cut
  - b. With the board situated such that the print is facing up (readable), measure from the left hand side to where you need to cut, and make a mark on the aluminum. If you see that there are no "CUT HERE" marks at that length, ROUND UP to the nearest "CUT HERE" mark.
  - c. Cut at that mark using a chop saw
  - d. Measure out the required length from the right hand side of the recently cut assembly. ROUND DOWN to the nearest "CUT HERE" mark and make your cut there
4. Apply a small amount of included silicone RTV sealant onto the freshly cut ends of the assembly to prevent moisture intrusion
5. Cut the lens you peeled back in step one to 1/4" longer than the bar you just cut
6. Assemble the lens back onto the aluminum and center the gaps between the aluminum and end of the lens
7. Glue a new end cap onto the lens assembly as shown below. **Do not use any glue other than the one supplied. If you need more glue for any reason, call your distributor to obtain a replacement bottle.**

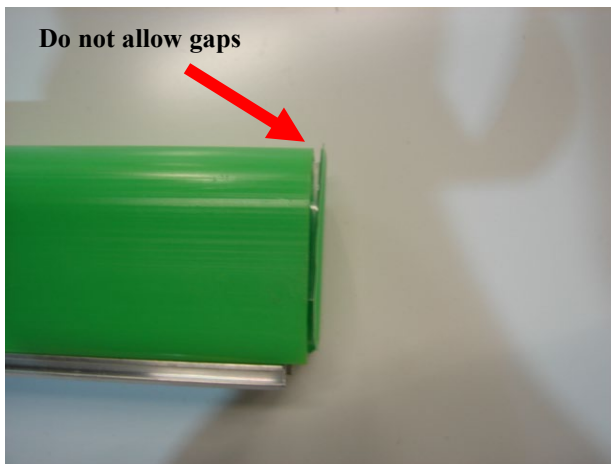


**Figure 2: Glue applied to end cap**



**Figure 3: End cap properly placed on lens**

**Pay particular attention so that no gaps exist between the end of the LightBar lens and the end cap. Gaps will allow light to pass through, and will result in a poor look for the product.**



**Figure 4: Gap between end cap and lens**



**Figure 5: Peel and stick the tab on the back of the aluminum channel. This will prevent large debris from entering the LightBar as the gap expands and contracts**

## H. LightBar Mounting Overview (Horizontal Orientations)

Prior to installing any mounting clips, mark a horizontal straight line across the entire fascia. Installers may use a chalk-line, laser line, or something similar.

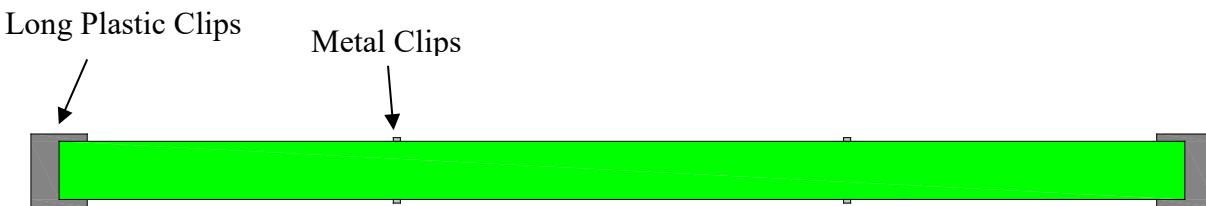
Start the installation at the corners and work your way out from there. This will ensure proper gaps are maintained throughout the entire fascia. The last piece of the run is typically the best place to trim the tube for an exact fit.

The LightBar product is held in place with a combination of plastic and metal clips. These clips must be installed at the proper locations along a section of LightBar; depending on the size of said section.

The following chart shows a general overview of where to locate the mounting clips:

LightBar Length	# of Stainless Clips	Stainless Steel Clip Location
0-3.9 ft	1	Center
4-6 ft	2	12" from either end
6.1-8 ft	3	20" from either end and Center
8.1-10 ft	3	30" from either end and Center
Corners	1	10" from end of long side

In some situations, the mounting surface will be uneven. To ease installation, shims should be used to bring all surfaces within a similar plane. The installer should place either a stainless steel or plastic washer behind the mounting clip(s) needed to be shimmed. **Do not use regular steel washers that could corrode.**



**Figure 6: Mounting Clip Location.** Note: reference the chart above to determine exact placement of the metal clips.

When installing LightBar, it is important to maintain a gap between any section of product and the next. Due to thermal expansion, these gaps are important such that the LightBar sections do not collide with each other and cause buckling when hot, or have too large of a gap when cold. The following chart dictates what gap should be used when installing at certain temperatures:

Install Temp	<0 °F	0 – 39 °F	40 – 100 °F	> 100°F
Gap Size	1/2"	3/8"	1/4"	1/8"

## I. Installing Radius Corners

1. Install the stainless steel mounting clips at the end of each radius piece (set about 1/8" in from the end). Also, place a stainless steel mounting clip in the center of the bend to ensure proper grip of the radius piece.

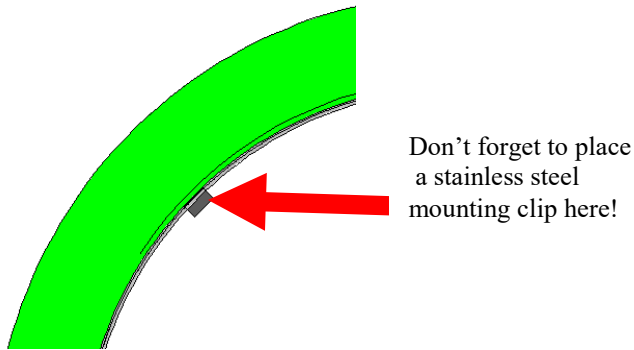


Figure 7: Sample radius piece showing how the mounting clips are placed

2. Install the specialized radius corner light assembly.
3. Leave a gap between this piece and the straight section. Refer to the chart on page 11 for the proper gap size.

Note: In the event that the radius piece does not conform to the bull-nose (due to irregularities in the angle of the corner) the stainless steel mounting clip may not engage. For safety reasons, a stainless steel clip **MUST** be placed on **EVERY** section of LightBar. If the corner angle will not allow the clip to be placed in the middle of the corner, relocate the clip so that it will engage and safely hold the corner piece on the bull-nose.

## J. Installing Outside 90° Corners

1. Install one 6" plastic mounting clip at the long end of each corner piece, and one stainless steel mounting clip in the center of the long section.

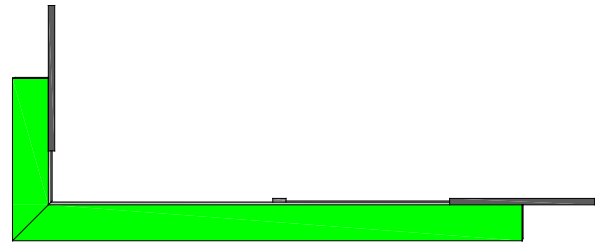


Figure 8: Outside 90° Corner installed with mounting clips

1. Snap the long end into the plastic and stainless steel mounting clip, leaving the short end free.
2. Slide the second 6" plastic mounting clip onto the short end, and rivet the clip to the fascia.
3. Leave a gap between this piece and the straight section. **Refer to the chart on page 11 for the proper gap size.**

## K. Installing Straight Sections of Horizontal LightBar

1. Mark lines at the appropriate locations described above (See Table 1) for the placement of the mounting clips



Figure 9: Chalk-line and mounting clips installed

2. Following the layout drawing, locate each joint between sections of LightBar. Make a distinct marking at these joints.
3. Using the supplied rivet, install stainless steel mounting clips at each location referenced in Table 1. Install the long plastic mounting clips at the joints between sections. These longer mounting clips will ensure proper alignment at the joint.

**Note: Use of the appropriate fastener is critical. For ACM, aluminum, plastic, or similar thin materials, any fastener other than the supplied split rivet could result in the product falling from the fascia. For concrete, masonry, wood, or similar materials, the installer is responsible for determining the appropriateness of any fastener.**

4. Snap the LightBar into the mounting clips. This is best accomplished by resting the bottom edge of the LED bar into the bottom barb of the clips. Gently rotate the LightBar up to engage the top barb. The installer should squeeze the lens while engaging the clips to prevent "over-snap" (See Figures 9 and 10). The LightBar should easily mate into the mounting clip.

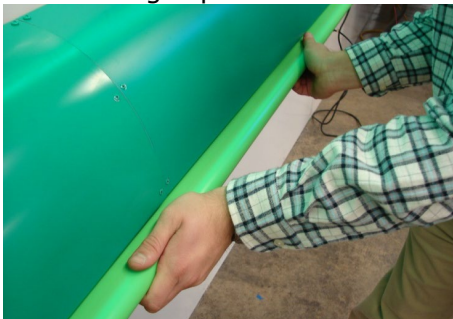


Figure 10: Snapping the light-bar into the mounting clip

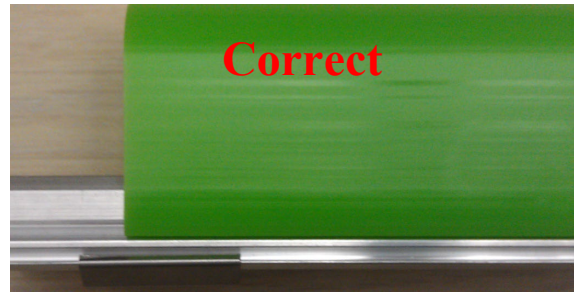


Figure 11: Properly engaged lens and clip. Note: Lens does not extend past the top groove in the aluminum channel



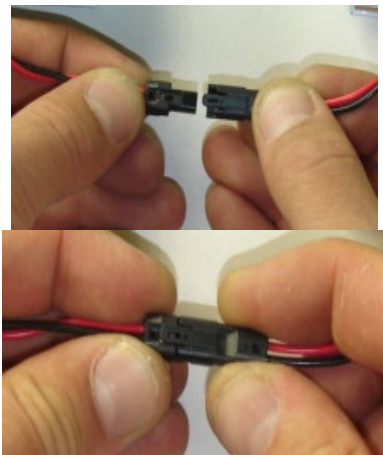
Figure 12: Improperly engaged lens and clip. Note: Lens extends below the top groove, and into the bottom groove of the aluminum channel



Figure 13 Note: Allow a minimum of a 1/4" Gap between each section for thermal expansion. **Failure to leave a gap between sections can cause separation of the product from the mounting surface.**

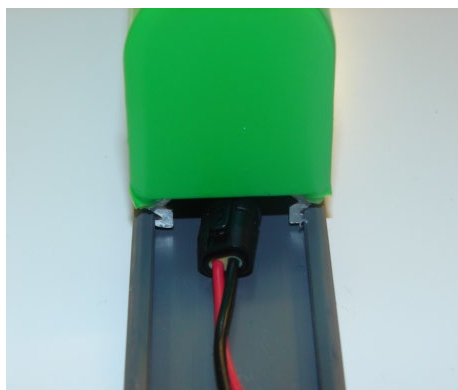
5. Make electrical connections at each joint. Connectors are polarized, so make sure that the wire colors match. **DO NOT FORCE CONNECTORS!** Make sure the connectors are engaged completely. Perform a pull test to verify capture.

**DO NOT PLUG CONNECTORS TOGETHER IF THERE IS POWER AT THE POWER SUPPLIES. THIS WILL SHORTEN THE LIFE OF THE LEDS.**



**Figure 14: Mate connectors and pull gently to ensure proper capture**

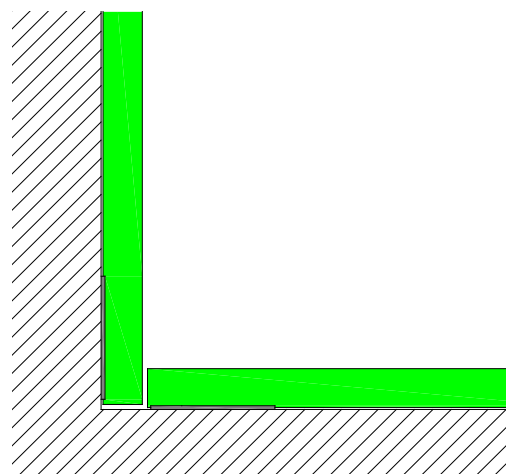
6. Tuck the connector between the LightBar and the 6" mounting clip. The wires and connector must be completely hidden by the assembly.



**Figure 15: Tuck wires and connector behind 6" mounting clip.**

## L. Installing Inside 90° Corners

1. Locate and mark a vertical line  $\frac{3}{4}$ " from the corner. The very end of the plastic (6") mounting clip will go here.
2. Locate and mark lines at the locations described in the above chart (See Table 1) along this chalk-line. The stainless steel mounting clips will go here.
3. Install the mounting clips on their respective lines as mentioned above.
4. Install one straight section leaving a  $\frac{3}{8}$ " gap between the end of the LightBar and the corner. (When installing in locations colder than 40°F, increase gap distance to  $\frac{5}{8}$ ".)
4. Install the other straight section leaving a gap between this section and the lens of the other LightBar. **Refer to the chart on page 11 for the proper gap size.**



**Figure 16: Inside Corner showing proper  $\frac{1}{4}$ " gaps between LightBar**

## M. Installing Vertical LightBar

**NOTE: VLB installation is only approved to be installed on canopies where dispenser service conventional, internal combustion engine (not approved for CNG/LNG/other alternative fuels)**

Prior to installing any components for the vertical LightBar, reference lines must be applied to the canopy support column. Mark a vertical straight line down the center of the canopy support tube. Installers may use chalk-line, laser line, or something similar. Mark the top of the canopy support column where the accent channel will start, about 2" from the canopy. Mark the canopy support column from the bottom the height of the existing gas dispenser plus 24" for clearance. The distance between these points will be the length of accent channel and vertical LightBar required.

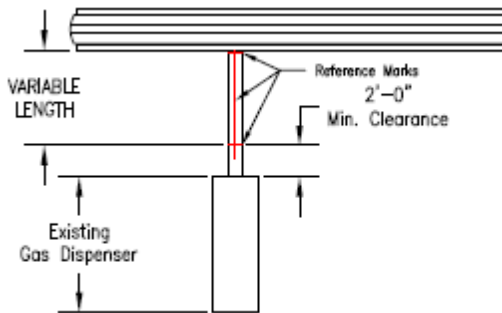


Figure 17: Vertical LightBar Reference Lines

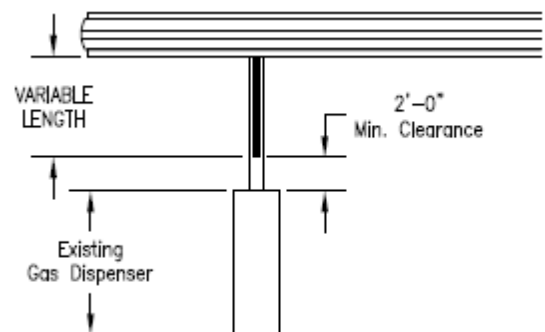
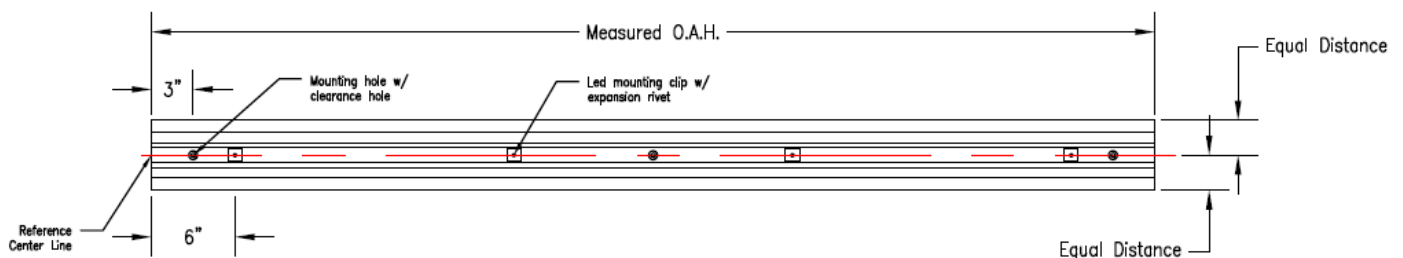


Figure 18: Vertical LightBar as Installed

Mark the accent channel from the bottom using this dimension. Cut the accent channel to the required length. *Any mounting holes or mounting clips that were cut from section will need to be added back to the remaining accent channel. The mounting hole diameter is 5/16" and is located 3" from edge on the backside of accent channel. A 5/8" diameter clearance hole will need to be drilled from the front to allow access to the mounting hole on the back of the channel. The LightBar mounting clip hole is 13/64" in diameter and is located 6" from edge. Extra LightBar mounting clips and hardware will be supplied.* Mark the center of the top and bottom edge of the accent channel so that it can align with the marks already on the canopy support column.



Align accent channel with the marks on the canopy support column. This may require 2 people to ensure that the accent channel is in the proper place. Using the supplied zip-screw, attach the accent channel to the canopy support column. Start from the top of the accent channel and work towards the bottom of the channel. Clean off any alignment marks that can be seen from the canopy support column.

**Note: Use of the appropriate fastener is critical. Zip-screws are designed to penetrate steel and to accommodate the thickness of the steel column along with the thickness of the accent channel. Using another type of unapproved fastener could cause the product to fall from column.**

## N. Finalizing the Installation

In some circumstances, a male plug end will not be connected to another female plug due to either maximizing the linear feet for a single power supply, or utilizing only one plug on a power supply or Y-splitter. In these situations, you will need to make a “Field Termination”. To do this, simply apply the supplied silicone (from the adhesive pack) to the contacts of the male plug.



**Figure 19: Male plug sealed with silicone. Note the amount used; only use enough to cover the contacts.**



**Figure 20: Completed LightBar assembly. Note that no wires are showing, and proper gaps exist between all joints.**

Power up the entire system and check that all LightBar sections are properly illuminated. If a section needs to be removed, use a #2 flat screwdriver to gently pry up on the top barb of the mounting clip. Disconnect the connector and remove bar from the clips.

After installing sections of LightBar, it may be necessary to perform a final wipe-down of all of the lenses to remove any grease or dirt from installation.

**Note: NEVER USE CLEANING CHEMICALS CONTAINING CHLORINE (OR CHLORINE DERIVATIVES)! USE WATER AND MILD DETERGENT ONLY.**

## O. Troubleshooting

**Note: CALL BLAIR COMPANIES FIRST if you have any service issues!**  
**(See Contact List located in the back of the manual.)**

1. **Clearly define symptoms!!** This is the most critical step in troubleshooting. You must clearly understand the problem before you can attempt to solve it.
  - a. Is the problem unique to one LightBar?
  - b. Do all affected segments of LightBar display the same symptom?
  - c. Are the symptoms intermittent (They are not there all the time)?
    - i. If the symptoms are intermittent, what are the conditions when the problem is observed? Temperature, weather, and time of day can all be factors.
  
2. If one or more segments of LightBar are not lighting correctly:
  - a. If the problem is located on a single segment only, the most likely cause is the segment itself. Try swapping it with another LightBar.
  - b. If there is more than one segment of LightBar with the same problem, and they are in series with each other, there is likely a problem with the connection going to the first problematic segment in the series.
  
3. If none of the LightBar is lighting:
  - a. Verify there is adequate power to the LightBar.
  - b. Check that the timer or photocell is not causing the problem.
  - c. Check input and output voltage of the power supply.  
The Input voltage should read 90-277 VAC.  
The Output voltage should read 24v DC.



# P. REQUIRED WARRANTY & INSTALLATION CHECKLIST

**Please complete one form for each location**

**LightBar OWNER**

Company: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Contact Phone: \_\_\_\_\_  
 Store Address: \_\_\_\_\_  
 \_\_\_\_\_  
 Store Number: \_\_\_\_\_  
 Store Phone No: \_\_\_\_\_  
 (if applicable)

**INSTALLER**

Company: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Blair M#: \_\_\_\_\_

**CONFIRM THE FOLLOWING ITEMS AS COMPLETED. Email or fax completed checklist, invoice, and photos to initiate the warranty. Send to LEDwarranty@blaircompanies.com or fax to 814-949-8293, Attn: LED Warranty.**

- LightBar Installation: ***Please check with the owner or general contractor for any changes to the LightBar placement, height, or orientation before proceeding. Report any discrepancy from the plans.***
- Receipt of all required parts (power supplies, accessory packs, mounting clips, LightBar)
- Receipt of all documents:
  - Instruction Manual (on web)
  - \_\_\_\_ LightBar Temperature during installation      \_\_\_\_ Gap between bars      \_\_\_\_ Gap between aluminum and lens

(Refer to Pages 8 and 11 for more information)
- Upon completion of the installation, all manuals left with store manager or owner.
- Proper installation of all the following components is in accordance with Blair Companies' Installation Guide to assure that each component is operating properly. *(Please make note of any problems/resolutions on a separate sheet of paper and submit with this checklist.)*
  - Power Supplies
  - Mounting Clip with supplied Rivets
  - All Sections of LightBar
  - Proper orientation of electrical connectors
- After installation, please send photos, invoice, and this form to Blair Companies. Photos must include the following:
  - **Power Supplies** – *How & Where the power supplies are mounted and wired, and verify that the sunshade was installed*
  - **Mounting Clip with Rivet** – *Show that the correct rivet was used to secure the mounting clip to the fascia*
  - **All sides of fascia with UNLIT LightBar** – *Taken from about 50' away. This is to show that the proper gap was used between LightBar sections.*
  - **All sides of fascia with LIT LightBar** – *Taken from about 50' away. This is to show that there are no outages or dead zones in the LightBar. **THE LIGHTBAR MUST BE ILLUMINATED!!!***

**For Blair-Managed installations, invoices won't be processed without this documentation.**

**INSTALLER:** By signing, I agree that the LightBar described at the location above was installed according to the guidelines and that all items on the above checklist were completed. I understand that failure to perform any of the items on the checklist or to install per instructions will result in Installer liability. I also understand that in the event that additional work is required to properly install the LightBar, all incurred costs will be at my expense.

Installer Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date of Install: \_\_\_\_\_

**STORE MANAGER / OWNER:** By signing, I agree that the installation of the LightBar described at the location above was demonstrated by the installer to be functioning correctly. The installer has reviewed the Installation Checklist with me and I agree that the installer has completed all items in accordance with the checklist.

Owner Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Date: \_\_\_\_\_

## Q. Completion Photo Guidelines

The following photos are necessary to verify proper installation and operation of the system. Note that digital cameras can capture images that may not reflect what is perceived by the human eye. This includes brightness/dimness or splotchy LED patterns. Take 2-3 photos of each required view, and check the picture on the camera to verify it reflects actual sign display. Camera settings like exposure setting may need to be increased to accurately portray the situation.

Email photos, along with job number/information to [LEDWarranty@blaircompanies.com](mailto:LEDWarranty@blaircompanies.com)

- **Power Supplies** – How & Where the power supplies are mounted and wired, and verify that the sunshade was installed.
- **Mounting Clip with Rivet** – Show that the correct rivet was used to secure the mounting clip to the fascia
- **All sides of fascia with UNLIT LightBar** – Taken from about 50' away. This is to show that the proper gap was used between LightBar sections.
- **All sides of fascia with LIT LightBar** – Taken at dusk from about 50' away. This is to show that there are no outages or dead zones in the LightBar. (Due to the unpredictable nature of installation times, and the fact that the photos should be taken at dusk, this task is the responsibility of the store owner if there is no final power at the time of the install.) **THE LIGHTBAR MUST BE ILLUMINATED!!!**

### Sample photos



Power Supply  
under Sunshade



Mounting Clip with Rivet

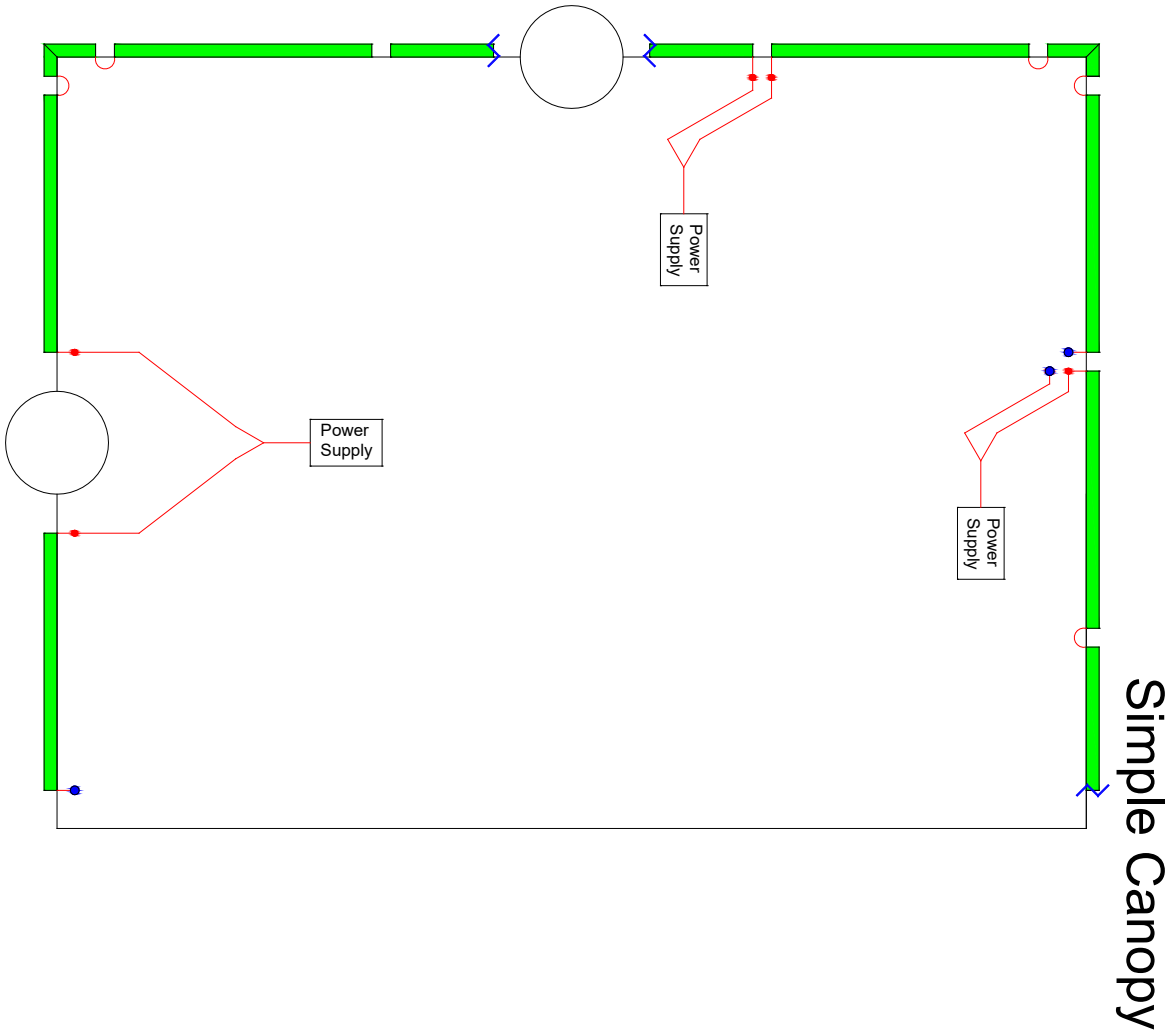









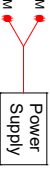
Sides of fascia with Unlit  
LightBar



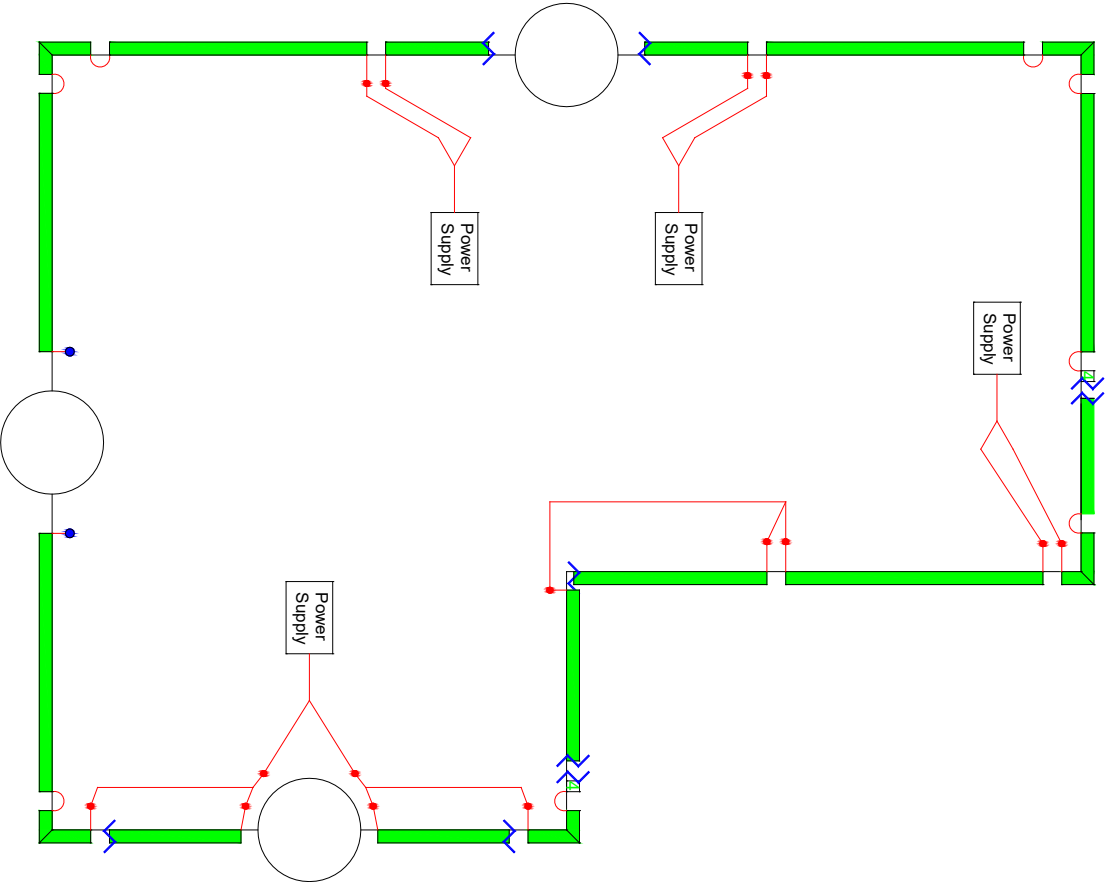
Sides of fascia with Lit  
LightBar

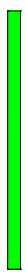






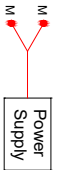
# Appendix A: Example Canopy Layouts



LEGEND	
	Standard Section
	Corner Section
	Y-Splitter
	Field Cut
	Field Termination
	Connector Junction
	Regular Connection
	Power Supply

# Complex Canopy



LEGEND	
	Standard Section
	Corner Section
	Y-Splitter
	Field Cut
	Field Termination
	Connector Junction
	Regular Connection
	Power Supply