HB30 120/277AC Series

BEFORE YOU BEGIN

Read these instructions completely and carefully.

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK OR INJURY, OBSERVE THE FOLLOWING:

A. ***Use these fixtures only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.***

B. Before servicing or cleaning unit, switch power off at the service panel and follow appropriate lock out/tag out safety procedures.

C. Turn Power Off before inspection, installation or removal.

D. Properly ground power supply enclosure.

F. Use only UL approved wire for input/output connections. Minimum wire size 18 AWG (0.82mm^2)

G. Follow all NEC and local codes

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.

Note:
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Prepare Electrical Wiring

Electrical Requirements

- Do not use in wet locations.
- The grounding and bonding of the LED Driver shall be done in accordance with National Electric Code (NEC) Article 600.
- Follow all National Electric Codes (NEC) and local codes.

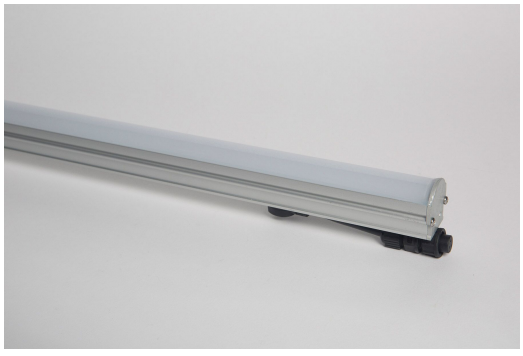
FOR YOUR SAFETY

Read and observe all CAUTIONS and WARNINGS shown throughout these instructions. While performing installation described, gloves, safety glasses or goggles should be worn.

HIGH PROFILE LED SERIES:LINEAR LIGHT BAR
INSTALLATION INSTRUCTION

HB30 120/277

c UL us LISTED E471286



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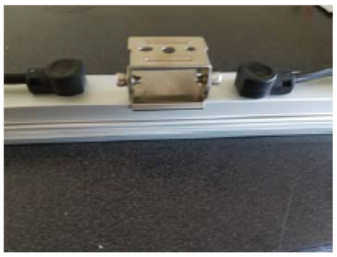
thesmartlightingcompany.com
or call 949-346-3456
1731 Kaiser Ave. Irvine, CA 92614

MOUNTING LIGHT FIXTURE

HB30 120/277VAC

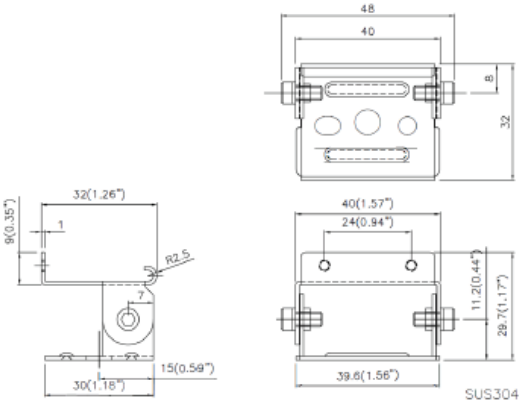
Components:

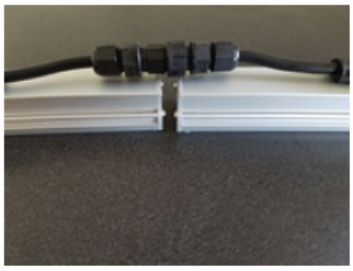
1. # ( ) Screw
2. UL approved 18AWG supply wire
3. UL approved 22-14 AWG twist-on wire connectors or 18-14 AWG in-line/IDC connectors
4. Starter cable incoming AC
5. Optional 0-10V Dimmer Module w/ Pre wired Junction Box AC5A
6. FLAT or ADJUSTABLE Bracket
7. HB40 120/277VAC Light Bar

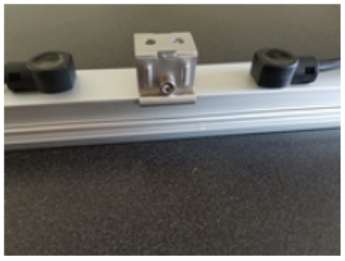


Adjustable Bracket

¾" Height

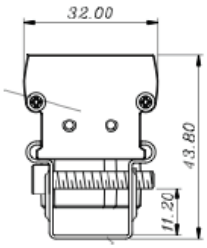






Flat Bracket

¾" Height



Mounting Light Module

•Mounting directly to surface must be mounted to the puck using appropriate screws or provided.
• See the mounting clip diagrams
• Lock out and tag out the circuit breaker for the lighting circuit of the area where the LED Panels are being installed.
• Turn the light switch to “off” to ensure no power is active.
• Remove any hazards in order to access the electrical raceway or necessary space.
• Use a Voltmeter and check that there is no voltage.
• Remove any existing fixtures, wiring harnesses, etc.
• Remove any Ballast or other power supplies from the electrical raceway or necessary space.
• Wear gloves to prevent injury when handling the old materials such as reflectors, ballasts, etc.

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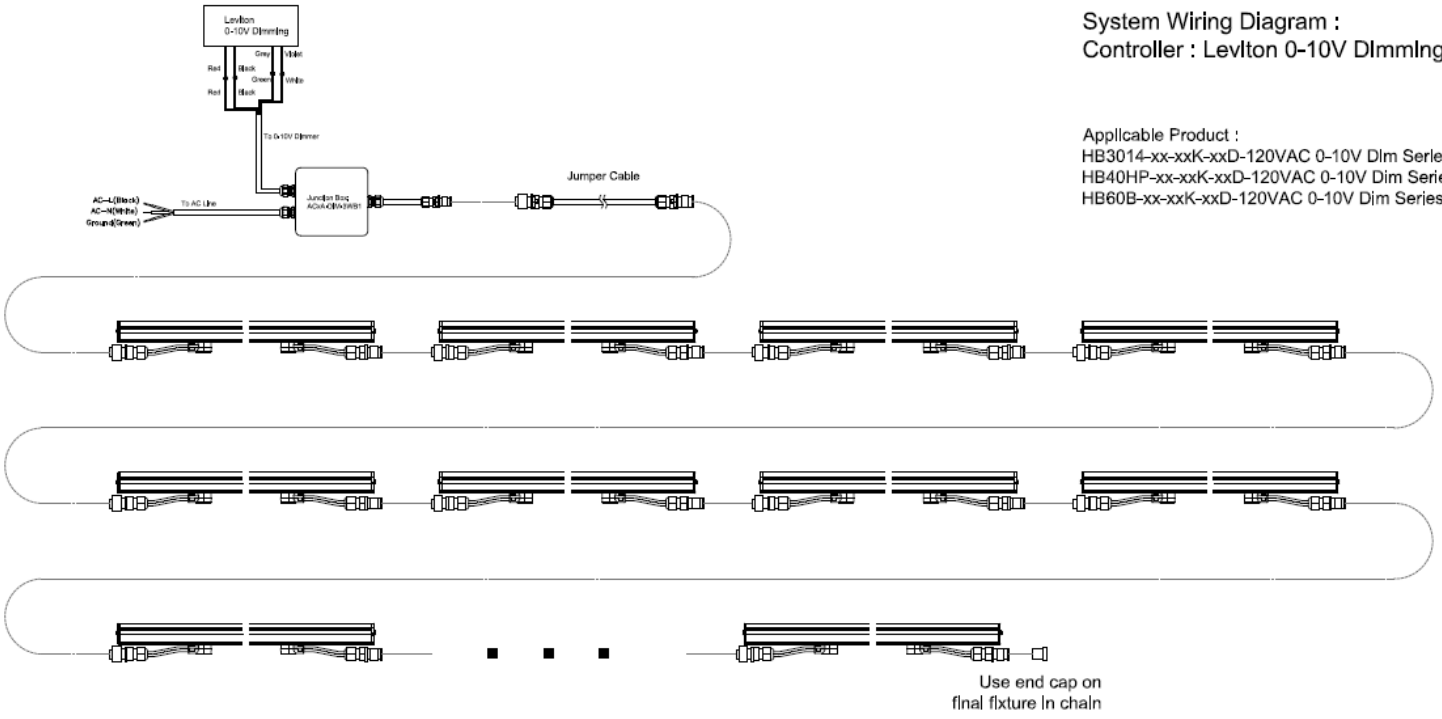
WIRING DIAGRAM



System Wiring Diagram :
Controller : Leviton 0-10V Dimming

Applicable Product :
HB3014-xx-xxK-xxD-120VAC 0-10V Dim Series
HB40HP-xx-xxK-xxD-120VAC 0-10V Dim Series
HB60B-xx-xxK-xxD-120VAC 0-10V Dim Series

**Note: Please refer to the product datasheet for the information of max. running length.

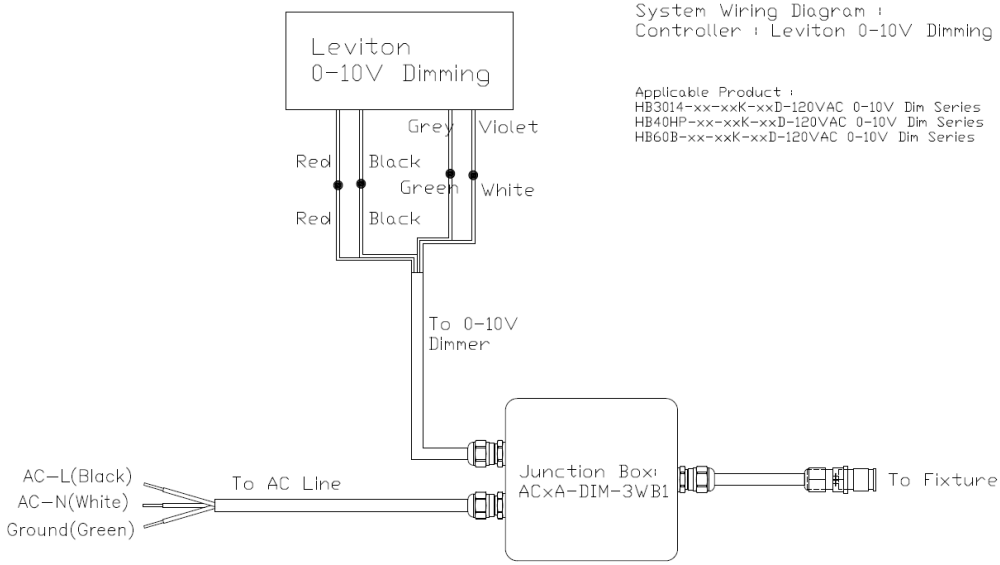
PREPARE ELECTRICAL WIRING
Electrical Requirements

• This lighting system unit must be supplied with 120V, 60Hz. and connected to an individual properly grounded branch circuit, protected by a 15 or 20. Amp circuit breaker or time delay fuse. The HB LED Light Bar is a line voltage luminary and must be used with an appropriate. Failure to connect this lighting system correctly will violate all warranty claims.
• Wiring must be 3 wires with ground and rated for 75°C (176°F).

NOTE: Consult local building codes and guidelines on selecting wires. Wires must be UL Listed.

Grounding Instructions-Cable Direct

This lighting system must be connected to a grounded metal, permanent wiring system, or an equipment grounding conductor must be run with the circuit conductors and be connected to the equipment grounding terminal.



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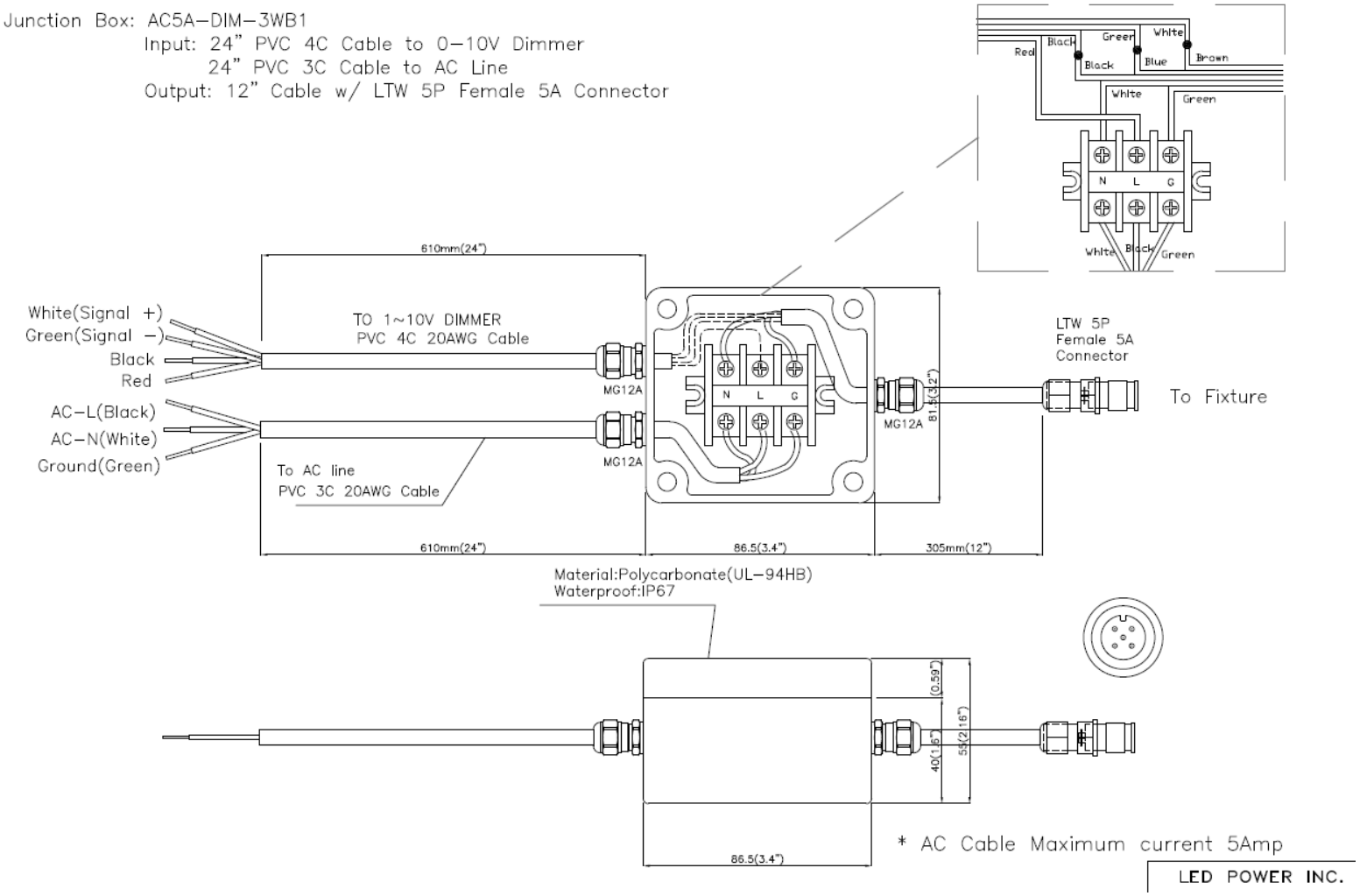

NOTE: Consult local building codes and guidelines on selecting wires. Wires must be UL Listed.

This lighting system must be connected to a grounded metal, permanent wiring system, or an equipment grounding conductor must be run with the circuit conductors and be connected to the equipment grounding terminal.

WIRING OPTIONS

FOR YOUR SAFETY
Read and observe all CAUTIONS and WARNINGS shown throughout these instructions. While performing installation described, gloves, safety glasses or goggles should be worn.

Quick Troubleshooting Recommendations

SYMPTOM	SOLUTION
All Lights are OFF	• Check AC input connection and/or check circuit breaker. • Check wire connection(s) at the LED System and power supply for improper termination(s) or short circuits. Properly terminate or replace the wire connection(s). • Check that connections are the (+) wire of the LED panel to the red wire (+) of the power supply and (-) wire of the LED pucks to the blue wire (-) of the power supply.
Some LEDs appear dim	• Ensure the overall length of the LED System does not exceed the maximum load. • Ensure the length of supply wire is equal to or below the recommended remote mounting distance.
Some of the LEDs are illuminated	• Check wire connection(s) at the LED System and power supply for improper termination(s) or short circuits. Properly terminate or replace the wire connection(s). • Check that connections are the (+) wire of the LED panel to the red wire (+) of the power supply and (-) wire of the LED pucks to the blue wire (-) of the power supply.
Shadows	• Re-route supply wire and secure to the back of the sign box with silicone. Adjust wire connector orientation so that it does not cover any LEDs. • Adjust LED layout to ensure uniformity of illumination on the face of the sign or letter.

Tips

- These LED systems are rated for damp location use by UL, and should be protected from direct exposure to moisture (i.e., rain & snow).
- For optimal light uniformity in halo-lit applications the LED panel should be mounted on UL recognized plastic and the light output from the LED system should be directed back into the sign enclosure box. This will allow for uniform backlighting or edge lighting of the sign and will provide simple mounting for the LED system.
- When mounting LED panel for halo-lit applications the clear acrylic should be recessed into the body of the sign or a bead of silicone should be applied to provide a barrier against the elements.
- A best practice for the supply wire at the point at which it is brought into the sign is to have a drip loop on the inside to prevent water from collecting on the LED panel.