**Installation Instructions for 920E4LED-A Round or Square Element 4” Adjustable Housing**

**TECH LIGHTING®**

**ELEMENT**

**GENERAL PRODUCT INFORMATION:**

This product is suitable for indoor locations.

This product can be dimmed with a standard electronic dimmer.

This instruction shows a typical installation.

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**CAUTION - RISK OF FIRE**

This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.

Use minimum 90°C supply conductors.

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**Install the Housing with Adjustable Bars**

1A LEAVE TAB IN PLACE

1B BREAK OFF AND DISCARD

1/2” to 3/4” 3/4” or thicker

**NOTE:** Skip this section if installing the housing with butterfly brackets.

1. **Keep Tab for ceiling 1/2” to 3/4” thick.**
   - When using adjustable hanger bars with 1/2” to 3/4” thick ceilings, leave the tab of the hanger bars in place.

2. **Break off Tab for ceiling 3/4” or thicker.**
   - When using adjustable hanger bars with 3/4” or thicker ceilings, remove the tab by bending it at the perforation.

3. Slide the inner adjustable bar completely through the three housing clasps. Make sure the nail is on top.

4. Slide and push the outer adjustable bar completely onto the inner adjustable bar so that the tab clicks into place behind the stop point. This will prevent the adjustable bars from coming apart.

5. Repeat steps 2 & 3 for the other side of the housing.
**1D**

- Carefully cut and remove the zip ties.

- Align the bottom of the end plates with the bottom of the ceiling joists.

- Level the adjustable bars and, with a hammer, tap the nails completely into the joists to secure the adjustable bars.

**NOTE:** The adjustable bars can be mounted to joists that are spaced 16” - 24” apart.

**1E**

- Adjust the collar position (horizontal position) by sliding the housing on adjustable bars.

- When the desired location is achieved, tighten the two #6 self tapping screws to lock the housing onto the adjustable bars.

**NOTE:** Notches in the collar can be used to align multiple housings using a laser or string.
Install the Housing with Butterfly Brackets

1. Slightly loosen the wing nut located inside the housing to slide the butterfly bracket up or down.
2. After achieving the proper location, tighten the wing nut to secure the butterfly bracket in place.
3. Repeat steps 1 and 2 on for the other butterfly bracket.
4. Utilize the butterfly brackets to install the housing in accordance with local electrical codes.

NOTE: Notches in the collar can be used to align multiple housings using a laser or string.

Connect Power to the Housing

1. Push the tab on the housing electrical box up and remove the electrical box cover.
2. Install the conduit to the housing electrical box.
3. Run the power line wires into the housing electrical box.
4. Use the appropriate wiring diagram on the following page to wire your fixture accordingly.

NOTE: Skip this section if installing the housing with adjustable bars.

NOTE: When a fixture is installed in a location that requires servicing from below the ceiling through the fixture aperture, the branch circuit connections need to be able to be brought out through the aperture. To accomplish this, an NM type cable in conjunction with snap-in/push-in connectors must be used and a 12” service loop must be left available outside of the fixture housing wiring compartment to allow additional branch circuit wiring to be pulled through the snap-in/push-in connector and extended out through the aperture below ceiling level.

WARNING: RISK OF FIRE: When using the housing electrical box for power feed through, use MAX. 4 - #12 AWG, or 6 - #14 AWG branch circuit wires.
IC LABELED FIXTURE WIRING

Standard Driver Wiring
Standard ELV/Triac

CONNECTOR TO DRIVER

DRIVER
HOT BLACK EXTERNAL HOT
NEUTRAL WHITE EXTERNAL NEUTRAL
GROUND EXTERNAL GROUND

HOUSING
GROUND GREEN

EldoLED Driver Wiring

EldeLED ECOdrive/SOLOdrive 0-10V

CONNECTOR TO DRIVER

DRIVER
HOT BLACK EXTERNAL HOT
NEUTRAL WHITE EXTERNAL NEUTRAL
PURPLE 0-10V (+) DIM
GREY 0-10V (-) DIM
GROUND GREEN

HOUSING
GROUND EXTERNAL GROUND

EldeLED SOLOdrive DALI

CONNECTOR TO DRIVER

DRIVER
HOT BLACK EXTERNAL HOT
NEUTRAL WHITE EXTERNAL NEUTRAL
PURPLE DIM/DIGITAL BUS
PURPLE DIM/DIGITAL BUS
GROUND GREEN

HOUSING
GROUND EXTERNAL GROUND

EldoLED Tunable White Wiring

EldeLED DUALdrive 0-10V

CONNECTOR TO DRIVER

DRIVER
HOT BLACK EXTERNAL HOT
NEUTRAL WHITE EXTERNAL NEUTRAL
PURPLE/WHITE CCT 0-10V (-)
PURPLE/WHITE CCT 0-10V (+)
GROUND GREEN

HOUSING
GROUND EXTERNAL GROUND

EldeLED DUALdrive DALI

CONNECTOR TO DRIVER

DRIVER
HOT BLACK EXTERNAL HOT
NEUTRAL WHITE EXTERNAL NEUTRAL
ORANGE/WHITE DALI CONTROL -
ORANGE DALI CONTROL +
GROUND GREEN

HOUSING
GROUND EXTERNAL GROUND

EldoLED DUALdrive 0-10V

CONNECTOR TO DRIVER

DRIVER
HOT BLACK EXTERNAL HOT
NEUTRAL WHITE EXTERNAL NEUTRAL
GREY/WHITE INTENSITY 0-10V (-)
PURPLE/WHITE INTENSITY 0-10V (+)
GROUND GREEN

HOUSING
GROUND EXTERNAL GROUND

Hi-Lume Driver Wiring
Hi-Lume 2 Wire

CONNECTOR TO DRIVER

DRIVER
HOT BLACK EXTERNAL HOT
NEUTRAL WHITE EXTERNAL NEUTRAL
GROUND EXTERNAL GROUND

HOUSING
GROUND GREEN

Hi-Lume EcoSystem

CONNECTOR TO DRIVER

DRIVER
HOT BLACK EXTERNAL HOT
NEUTRAL WHITE EXTERNAL NEUTRAL
PURPLE/WHITE DIM/DIGITAL BUS
PURPLE/WHITE DIM/DIGITAL BUS
GROUND GREEN *

HOUSING
GROUND EXTERNAL GROUND

* If green/ground connection is available, wire to ground.
**NON-IC LABELED FIXTURE WIRING**

**Standard Driver Wiring**

**Standard ELV/Triac**

- HOT BLACK → EXTERNAL HOT
- NEUTRAL WHITE → EXTERNAL NEUTRAL
- GROUND → EXTERNAL GROUND

**Standard 0-10V**

- HOT BLACK → EXTERNAL HOT
- NEUTRAL WHITE → EXTERNAL NEUTRAL
- GREY → 0-10V (-) DIM
- PURPLE → 0-10V (+) DIM
- GROUND → EXTERNAL GROUND

**Hi-Lume Driver Wiring**

**Hi-Lume 2 Wire**

- HOT BLACK → EXTERNAL HOT
- NEUTRAL WHITE → EXTERNAL NEUTRAL
- GROUND → EXTERNAL GROUND

**Hi-Lume EcoSystem**

- HOT BLACK → EXTERNAL HOT
- NEUTRAL WHITE → EXTERNAL NEUTRAL
- PURPLE → 0-10V (-) DIM
- ORANGE/WHITE → DIAL CONTROL -
- ORANGE → DIAL CONTROL +
- GROUND → EXTERNAL GROUND

**EldoLED Driver Wiring**

**EldoLED ECOdrive/SOLOdrive 0-10V**

- HOT BLACK → EXTERNAL HOT
- NEUTRAL WHITE → EXTERNAL NEUTRAL
- PURPLE → 0-10V (-) DIM
- GREY → 0-10V (+) DIM
- GROUND → EXTERNAL GROUND

**EldoLED SOLOdrive DALI**

- HOT BLACK → EXTERNAL HOT
- NEUTRAL WHITE → EXTERNAL NEUTRAL
- PURPLE → DIM/DIGITAL BUS
- GROUND → EXTERNAL GROUND

**EldoLED Tunable White Wiring**

- HOT BLACK → EXTERNAL HOT
- NEUTRAL WHITE → EXTERNAL NEUTRAL
- PURPLE/WHITE → CCT 0-10V (-)
- ORANGE/WHITE → CCT 0-10V (+)
- GROUND → EXTERNAL GROUND

**EldoLED DUALdrive 0-10V**

- HOT BLACK → EXTERNAL HOT
- NEUTRAL WHITE → EXTERNAL NEUTRAL
- GREY/WHITE → INTENSITY 0-10V (-)
- ORANGE/WHITE → INTENSITY 0-10V (+)
- GROUND → EXTERNAL GROUND

**EldoLED DUALdrive DALI**

- HOT BLACK → EXTERNAL HOT
- NEUTRAL WHITE → EXTERNAL NEUTRAL
- ORANGE/WHITE → DALI CONTROL -
- ORANGE → DALI CONTROL +
- GROUND → EXTERNAL GROUND

*If green/ground connection is available, wire to ground.*
Install Drywall

1. **For round trims**, mark a 4-1/2" diameter circle on drywall. Cut out the marked section. **For square trims**, mark a 4-1/2" square on drywall. Cut out the marked section.

2. Align the cut out section of drywall with the collar and install drywall.

**WARNING: Risk of Fire**: The housing is not intended to be in contact with or covered with combustible materials and insulation. Do not install insulation within 3 inches of the housing sides or above in such a manner to entrap heat.

Install Plaster Ring (For Flangeless Versions)

1. Insert the plaster ring completely into the collar/ceiling and secure them in place with the provided set screws and Allen wrench.

**NOTE**: Longer set screws have been provided for instances where the plaster ring does not reach the collar and must be secured to the inside of the ceiling cutout. Use the short set screws if the trim is installed in the collar.
**Adjust the Lamp Housing**

2. Plug the collar with the provided dust shield.
3. Properly plaster onto the plaster ring and drywall.

4. Finish around the trim to match drywall.

1. To adjust the height, grip the module assembly and push up to minimize glare and flash on the trim. Pull down on the module assembly for maximum light output and efficiency.

2. Plug the collar with the provided dust shield.
3. Properly plaster onto the plaster ring and drywall.
To tilt the lamp housing, unlock the assembly by pressing on the latch and position the assembly until the desired angle is reached.

NOTE: Lamp housing can rotate 361° horizontally.

Pull the rotation lock out to unlock the lamp housing.

Rotate the lamp housing horizontally. When the desired position is achieved push the rotation back to lock the lamp housing in place.

NOTE: Lamp housing can tilt 40° vertically. Lock intervals are 2.5° apart.

To tilt the lamp housing, unlock the assembly by pressing on the latch and position the assembly until the desired angle is reached.
Install the Lenses (Optional)

1. Place lenses (max. 2, optional) inside the lens holder spring.

2. Line up tabs of the lens holder spring with the notches on the optic holder and push the lens holder spring on.