### FRAXION® SLOPED

### RECESSED LED DOWNLIGHT HOUSINGS

### INSTALLATION

Before beginning any DOWNLIGHT installation, disconnect electrical power at main switch or circuit breaker.

### A. CAUTION

To reduce the risk of fire, electric shock, and potential damage to recessed housing assembly when electrical power is re-connected, DO NOT ATTEMPT TO CONNECT the following on branch circuit serving recessed downlight assembly:

- •Motors •Power tools •Extension cords
- Appliances or similar electronics

Housings to be mounted in ceiling / plenum conditions where ambient temperatures do not exceed 40°C.

Lucifer Lighting LED housings must be used with Lucifer Lighting LED downlights.

Ensure AC input voltage is protected against surges & load shifts prior to power supply input.

### **B. SAFETY INSTRUCTIONS**

- Read installation instructions completely before attempting installation.
- 2. Failure to follow instructions may result in improper installation and void warranty.
- Contact Lucifer Lighting Company with any questions or concerns before beginning any installation.
- Ensure qualified electrician will perform all electrical procedures.
- Disconnect electrical power circuit before attempting to install recessed downlight housing or trim, or if adding to or changing configuration of downlight housing or trim assembly.

- Install / mount recessed downlight housing on structurally sound surface.
- Recessed downlight housings may be installed in dry or damp locations only.
- Do not install recessed downlight assembly closer than 6" (152mm) from curtains, exotic veneers, or similar combustible or heatsensitive materials.

### 9. Housing allows:

**Direct contact with** polycell sprayin foam insulation having max R-Value of 60 allowed on all sides and top of housing.



### C. HOUSING INSTALLATION

### 1. KEY HOUSING COMPONENTS

Note: Housing aperture is equipped with a disposable foam plug to minimize dust / paint invasion. Remove after final finish is applied to ceiling.

**WARNING:** Do not energize housing with foam installed.

Become familiar with the housing access points, hanger bar assemblies, and housing collar features.

Cover plate (Fig. 1) provides access to housing prior to installation of ceiling substrate and is retained with screws. Driver assembly held in place with Velcro (Fig. 2). See Section G for instructions on servicing driver from below through housing aperture.

<u>Note</u>: Housing lid is not removable in the field.

Housings outfitted with fixed-depth 0.46" (12mm) collar for round and square fixtures, for all ceiling thicknesses.

### 2 HANGER BAR ASSEMBLIES

Hanger bars extend from 14" (356mm) to 24" (610mm) and mount to short axis of housing. To attach, slide paired halves of hanger bar through housing mounting brackets, joining halves together. Secure position with locking screws (Fig.3).

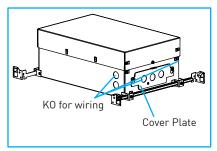


Fig.1

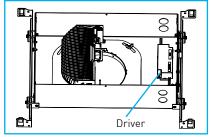


Fig.2

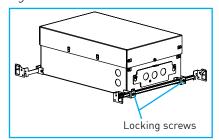


Fig.3

### 3. MOUNT HOUSING

Note: Foam plug must remain in aperture until final painting is concluded. For trimless applications, the trim with integral applique must be installed after sheetrock and before the mudding process. Plan and secure accordingly to maintain construction schedules.

### **General Housing Mounting Notes:**

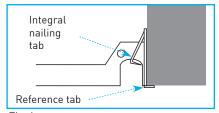
Recessed downlight housings installed in accessible and non-accessible ceilings shall be supported from the structural members of the building.

Determine specified fixture location. With hanger bars properly affixed to housing (see Section C-2), secure hanger bars to selected framing member.

### Wood or Metal Studs:

Position reference tab of hanger bar foot to underside of stud (Fig.4). If wood stud, use integral nailing tab and suitable customer-supplied nails or screws to secure. If metal stud, use suitable customer-supplied screws (Fig.5).

**Note:** Must use two nails or screws at each of four hanger bar feet.



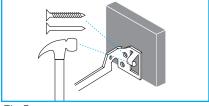


Fig.4

Housing must be installed in the correct orientation with arrows of "Up Towards Peak" label aimed upward with grade (Fig.6). Verify the ceiling thickness ranges correspond to the final ceiling thickness. Verify aperture position using laser or string line, referencing edges of housing (Fig. 7). Tighten hanger bar locking screw to set lateral movement, and ensure all mounting screws are securely tightened (see Section C-1 and C-2).

**Important:** Collar must not protrude beyond finished ceiling plane (Fig.8).

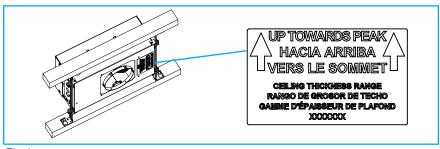


Fig.6

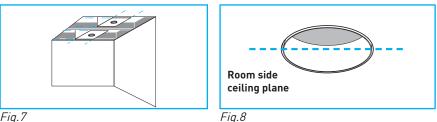


Fig.8

### 4. WIRE HOUSING - UL1598 INSTALLATIONS ONLY

Note: Consult Safety Instructions in Section B prior to commencing wiring or servicing.

### General Wiring Notes:

The housing assembly should be installed by a registered electrician and shall comply with National Electric Code (NEC) and local codes and ordinances .

The installer is responsible for furnishing proper electrical equipment and materials for the installations of the housings as intended by these installation instructions.

Install wiring in a manner to permit access to components and splice connections which may require future service. 10" (254mm) minimum customer-furnished feed wires must be supplied within housing to accommodate future servicing.

Metal conduit shall be used if required by applicable codes. Must use 90°C minimum supply wire only.

No part of the secondary circuit shall be grounded.

For systems that will be dimmed, consult controls manufacturer to verify control compatibility and for proper installation procedures and parameters.

### Wiring Installation Process:

Remove access panel by loosening screws and lifting the panel up (Fig.9).

Note: Removal of driver is not required.

**Quick connectors** provided for line / mains voltage connection: black (hot), white (common) and green (ground) (*Fig. 10*).

Note: Consult diagrams in Section I, wiring housing in accordance with the applicable driver type and proper selection of control voltage wires. Supplied internal wiring is 18-gauge with 600V-rated insulation.

Feed structured building wires through knockout, secure to corresponding connector (Fig. 10) and tighten strain relief.

**Note:** Ensure wires are firmly secured and not tangled prior to moving to the next step.

Push all wires into housing and reinstall access panel, ensuring that no wires are pinched by cover.

**Important:** Confirm that housing is still in the preferred position.

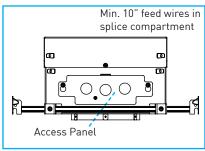


Fig.9

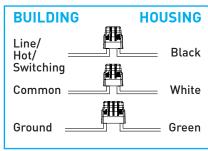


Fig. 10

### 4.1 REMOTE POWER SUPPLY - UL1598 INSTALLATIONS ONLY

Determine preferred mounting location, verifying fixture falls within maximum allowed wiring distance (Fig. 11).

Run adequately sized two-pair wire between remote driver and housing or remodel fixture location, following installation guidelines for terminating as needed.

Note: Secondary wiring is polarized (+/-) and must be terminated correctly at both ends for proper operation. It is recommended to use Red (+) and Black (-) wires to avoid confusion. No part of the secondary circuit shall be grounded.

Ensure proper polarity is observed as reversed polarity may damage the unit and may void the warranty.

Access splice compartment by removing retaining screws, then tilting cover slightly back and away from base (Fig. 12).

Mount transformer back plate assembly to suitable substrate using "customer-supplied" screws (Fig. 13).

Insert line voltage wiring / conduit into line side of splice compartment and secondary voltage wiring / conduit into secondary side of splice compartment, utilizing appropriate strain relief or connector.

**Note:** Consult wiring diagrams in Section G for applicable driver type.

Join structured building wires to corresponding driver wires with suitable "customer-supplied" wire connecting device.

Push all wires and wire connections into splice compartment and reinstall splice compartment cover by aligning tab and slot, ensuring no wires are pinched by cover. Install retaining screws.

| Lutron Driver<br>"L2" & "LP" | s:  |     |     |     |     |  |
|------------------------------|-----|-----|-----|-----|-----|--|
|                              |     |     | 14  |     |     |  |
| Distance (m) Distance (ft)   | 4.5 | 7.5 | 12  | 18  |     |  |
| Distance (ft)                | 15  | 25  | 40  | 60  |     |  |
| Philips Drive                | rs: |     |     |     |     |  |
| AWG Value                    | l   |     |     |     |     |  |
| Distance (m)                 | 14  | 22  | 34  | 55  | 87  |  |
| Distance (ft)                | 45  | 71  | 113 | 180 | 285 |  |
| eldoLED Driv<br>"EG", "EN" & |     | •   |     |     |     |  |
| AWG Value                    | 20  | 19  | 18  | 17  | 16  |  |
| Distance (m)                 | 14  | 18  | 22  | 28  | 36  |  |
| Distance (ft)                | 46  | 59  | 72  | 92  | 118 |  |

Fig.11

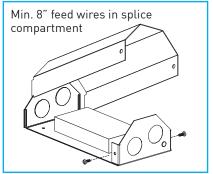


Fig. 12

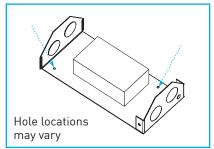


Fig.13

### 4.2 WIRE HOUSING - UL2108 INSTALLATIONS ONLY

**Note:** Heed all WARNINGS and CAUTIONS and consult Safety Instructions in Section B prior to commencing wiring or servicing.

### **General Wiring Notes:**

The housing assembly should be installed by a registered electrician and shall comply with National Electric Code (NEC), local codes and ordinances.

Installer is responsible for furnishing any required electrical equipment and materials for proper housing installation.

Installed housings permit access to components and splice connections. "Customer-supplied feed wires" within housing should be provided in minimum lengths of 10" (254mm) to accommodate future servicing.

### **Drive Current Information:**

|            |      | 805  |      |      | 90S  |      |      | 97S  |      |
|------------|------|------|------|------|------|------|------|------|------|
|            | 11A  | 15A  | 21A  | 11A  | 15A  | 21A  | 11A  | 15A  | 21A  |
| Minimum Vf | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 | 30.5 |
| Maximum Vf | 39   | 39   | 39   | 39   | 39   | 39   | 39   | 39   | 39   |
| Current mA | 250  | 350  | 500  | 250  | 350  | 500  | 250  | 350  | 500  |
| Wattage W  | 8.2  | 11.8 | 17.4 | 8.2  | 11.8 | 17.4 | 8.2  | 11.8 | 17.4 |

|            | 90W  | 90T  |
|------------|------|------|
|            | 15A  | 15B  |
| Minimum Vf | 30.5 | 30.5 |
| Maximum Vf | 39   | 39   |
| Current mA | 350  | 350  |
| Wattage W  | 14   | 14   |

|            | 10 E   | EGREE OF | PTIC   |
|------------|--------|----------|--------|
|            | 80S15C | 90S15C   | 97S15C |
| Minimum Vf | 30.5   | 30.5     | 30.5   |
| Maximum Vf | 39     | 39       | 39     |
| Current mA | 350    | 350      | 350    |
| Wattage W  | 11.8   | 11.8     | 11.8   |

### **Node Compatibility:**

| Manufacturer                              | Model Number   |
|---|--|
| <b>I © ○ ○</b> Enabling Smart Buildings ™ | NP50-60-C-F-5  |
| molex                                     | 180996-1001<br>180996-1002<br>180996-2001<br>180996-2002                                     |
| PLATFORMATICS                             | 1 Channel Node, POE-LN2-1U-E<br>2 Channel Node, POE-LN2-2U-E<br>4 Channel Node, POE-LN2-4U-E |

### Wiring Installation Process:

Housing provides two (2) wires for connection to low voltage: Red (+) and Black (-) (Fig.14).

<u>Note</u>: Supplied internal wiring is 18-gauge with 600V-rated insulation.

Remove access panel to gain access to quick connectors (Fig. 15).

**Note:** Ensure that cover plate gasket is undamaged.

Use appropriate raceway, connectors, wire and strain reliefs as required.

Feed structured building low voltage wires through knockout, secure to corresponding connector *[Fig.14]* and tighten strain relief.

**Note:** Ensure that wires are firmly joined before proceeding.

Push all wires into housing and reinstall access panel, ensuring that no wires are pinched by cover.

**Important:** Verify that required minimum wire lengths exist in housing.

Confirm housing remained in the desired position.

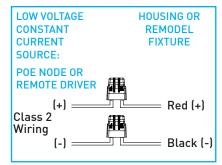


Fig. 14

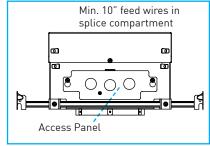


Fig. 15

### 6. CEILING SUBSTRATE & FINISH OUT

### 6.1 CEILING THICKNESS

Compatible with 0.50" (13mm) to 2.25" (54mm) ceilings.

### 6.2 CEILING CUT-OUTS

Correct size and quality of hole is critical. Microflange trims have minimal ceiling overlay of trim flange. Factory recommends use of properly sized hole saw for roubd trims.

Make proper hole cut-out, referencing measurements from adjacent walls to housing neck / aperture centerline (Fig. 16).

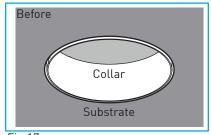
### HOUSING CUT-OUTS

5.40" (86mm) diameter cut-out for round fixtures
5.57" (142mm) x 5.66" (144mm) square cut-out for square fixtures

Fig.16

### 6.3. JA8-2016 TITLE 24 / WET RATED INSTALLATIONS

Once the ceiling is installed, using a caulk suitable for the site conditions and associated materials, apply a bead of caulk between housing collar and ceiling substrate to create an airtight seal, in accordance with CEC instructions and guidelines (Fig. 17) (Fig. 18).



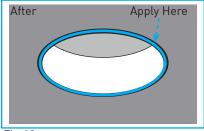


Fig.17

Fig.18

### 6.4 GYPSUM BOARD

Important: Square fixture installations require final alignment. Utilize string line or laser line to obtain uniform or desired alignment between multiple fixtures or in relation to parallel planes.

Install drywall in typical fashion. Oversized hole cut-outs must be filled in with mud or plaster, utilizing appropriate tape in accordance with industry standards, prior to trim installation.

Note: For trimless drywall installations, see Section D.1 and D.2.

Important: If trimless mud-in, trim adaptor with attached appliqué must be installed prior to mudding or finishing of ceiling. Failure to follow these instructions will lead to failed expectations and added expense.

Sand, prime, and apply finish coat to ceiling.

### 6.5 WOOD CEILING

Install wood in accordance with local and national building codes, employing suitable fire barriers as required. Hole cut-outs should be clean and precise. Sand, stain and apply finish seal coat prior to installing trim on flange overlay applications.

Note: For trimless wood installations, see Sections D.1 and D.3.

### D. TRIM INSTALLATION

Ensure ceiling is finished before beginning trim installation.

Remove disposable foam plug.

**WARNING:** Do not energize housing before removing disposable foam plug.

### 1. FLANGED & TRIMLESS MUD-IN INSTALLATIONS

Ensure LED module is properly secured in place and the optic is aligned and locked into LED module. Secure optic to LED module by aligning two locking tabs and twisting clockwise (Fig. 19).

Determine the ceiling thickness and install the appropriate trim screws in the housing *(Fig.20)*.

# FOR TRIMLESS WOOD INSTALLATIONS, STOP AND PROCEED TO SECTION D.3.

Raise the trim assembly into the housing aperture and rotate it counterclockwise onto the trim screws. Hand-tighten trim screws using 3/16" hex wrench, not exceeding 5 in-lbs (0.565 N-m), ensuring trim flange seats uniformly flush with finished ceiling plane (Fig.21). Verify alignment.

**WARNING:** Do not overtighten. Never tighten clamping screws using a powered screwdriver.

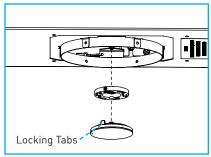


Fig.19

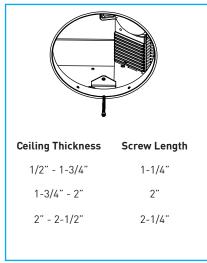


Fig.20

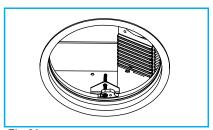


Fig.21

### 2. TRIMLESS MUD-IN

After appliqué is secured, install foam plug (Fig.22). Do not remove plug until all plaster and paint work is complete.

Use floating knife to apply first pass of drywall compound from beyond outer edge of appliqué to inner edge of appliqué / plaster stop. Float out as far as necessary to hide perforated appliqué and allow first pass of joint compound to dry (Fig.23).

Apply second coat of drywall compound level with screed edge, feathering compound as you move away from appliqué to give appearance of a perfectly flat ceiling (Fig.24). Allow drywall compound to dry fully and cure.

Gently use block sanding screen to sand surface (Fig.25) until desired level of smoothness is achieved.

WARNING: An unsatisfactory installation will occur if drywall compound is not sufficiently sanded and the flange / plaster stop is at all receded into the ceiling plane.

Once cured, the ceiling may be painted. After paint is dry, remove foam plug. Check for any drywall compound or paint that may have seeped beneath plug and carefully scrape if necessary.

Important: Any foreign material left in or on recessed appliqué surface may prevent proper baffle installation and satisfactory trimless appearance.

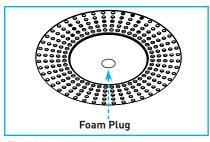


Fig.22

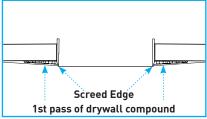


Fig.23

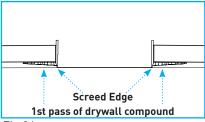


Fig.24

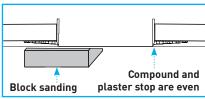


Fig.25

### 3. TRIMLESS WOOD

Determine the required spacer stack and counterbore depth based upon the finished wood layer thickness *[Fig.26]*.

| Finished Layer | Counterbore (X) | Spacer Stack | Thin Spacer | Thick Spacer |
|----------------|-----------------|--------------|-------------|--------------|
| 1"             | 3/4"            | 11/16"       | 1           | 5            |
| 7/8"           | 5/8"            | 9/16"        | 1           | 4            |
| 3/4"           | 1/2"            | 7/16"        | 1           | 3            |
| 5/8"           | 3/8"            | 5/16"        | 1           | 2            |
| 1/2"           | 1/4"            | 3/16"        | 1           | 1            |

Fig.26

Install spacers onto the trim as shown in *Fig.27*. The combined thickness of the spacers and flange must be equal to the counterbore depth.

Raise the trim assembly into the housing aperture and rotate it counterclockwise onto the trim screws.
Hand-tighten trim screws using a 3/32" hex wrench, not exceeding 5 in-lbs (0.565 N-m), ensuring trim flange seats uniformly flush with ceiling backing (Fig.28).

**WARNING:** Failure to install disposable foam plug may result in fire.

Install the round or square disposable foam plug into the trim aperture to prevent contamination of the housing *(Fig.29)*.

**WARNING:** Do not energize housing before removing disposable foam plug.

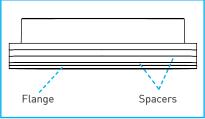


Fig.27

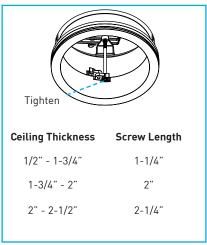


Fig.28

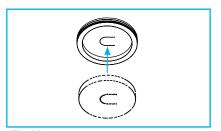


Fig.29

Note: Requires trim / compact router.

Locate and mark the center-line of the trim aperture on the finished wood layer. Drill a pilot hole to accommodate router bit (max 2.5" diameter) *(Fig.30)*.

Important: Counterbore depth must be 1/4" less than the total thickness to ensure proper baffle fitment.

Counterbore a space larger than the trim using the predetermined depth in *Fig.26 (Fig.31)*.

**Note:** Factory does not recommend counterboring the entire width of wood.

Counterbore must be larger than the trim footprint to ensure finished wood layer can be installed (Fig.32).

Install finished substrate, ensuring the centerlines of the housing and substrate are concentric (*Fig.33*).

Utilizing a trim/compact router with a flush trim profile bit set to a 1/4" depth, begin router cut in the pilot hole and move outwards towards the trim edge. Using the inside of the trim as a guide work around the inside of the trim to complete cutout (Fig. 34).

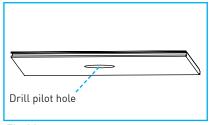


Fig.30

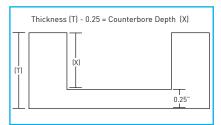


Fig.31

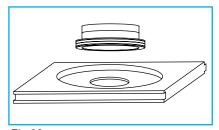


Fig.32

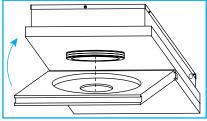


Fig.33

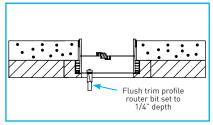


Fig.34

**Note:** Ensure tools used to square and clean cutout are sharp and clean.

On square installations, use a sharp utility knife to square the corners of the cutout to ensure proper baffle fitment (Fig. 35).

On all installations use a utility knife fine file, or sharp chisel to deburr any rough edges of the cutout to ensure proper baffle fitment (Fig.36).

**WARNING:** Do not energize housing before removing disposable foam plug.

Once all woodwork has been completed, remove disposable foam plug *(Fig.37)*.

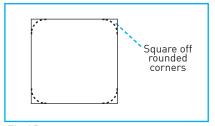


Fig.35

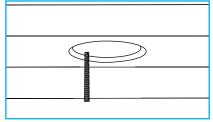


Fig.36

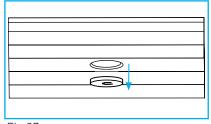


Fig.37

### **E. ADJUSTABLE TILT**

### 1. TILT

Fixture must be set to the angle or rise / run of the ceiling (*Fig.38*). Pull spring pin towards center of housing aperture and rotate down to lock pin in adjustment position (*Fig.39*). Use heat sink handle to adjust tilt lining up the bottom of the LED assembly with desired pitch (*Fig.40*). Release spring pin by rotating up, reengaging lock.

| Position | Angle | Rise/Run |
|----------|-------|----------|
| 1        | 15°   | 3/12     |
| 2        | 18°   | 4/12     |
| 3        | 22°   | 5/12     |
| 4        | 26°   | 6/12     |
| 5        | 30°   | 7/12     |
| 6        | 34°   | 8/12     |
| 7        | 37°   | 9/12     |
| 8        | 40°   | 10/12    |
| 9        | 43°   | 11/12    |
| 10       | 45°   | 12/12    |

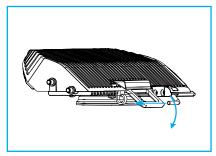


Fig.38

Fig.39

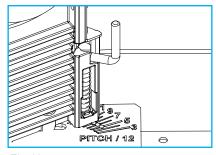


Fig.40

### F. BAFFLE INSTALLATION

### 1. INSTALLATION

Connect safety lanyards. Push baffle up until flush with the flange or the finished ceiling plane on trimless applications (Fig.41).

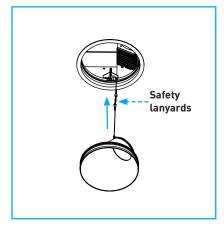


Fig.41

# G. HONEYCOMB LOUVER ASSEMBLY

### 1. INSTALLATION

Allows for Honeycomb Louver and a secondary effects device to tilt and rotate with adjustable fixtures.

Install HCL and specified secondary effects device in retainer, ensuring the HCL is installed first *(Fig.42)*.

With aiming completed and optic installed, raise assembly up and carefully clip onto optic (Fig.43).

**WARNING:** Ensure standard effects device and lens retainer are not installed on baffle prior to installation.

Connect safety lanyards. Push baffle up until flush with the flange or the finished ceiling plane on trimless applications (Fig.44).

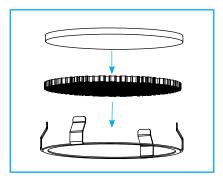


Fig.42

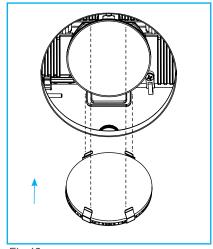


Fig.43

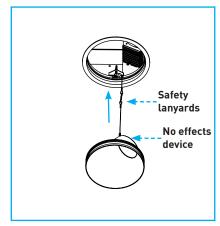


Fig.44

### H. SERVICING FIXTURE

Important: Before servicing or maintaining fixture, disconnect electrical power at main switch or circuit breaker. Additionally, review notes in Sections A and B and refer to figures in main installation instructions when necessary.

### 1. EXCHANGING OPTIC / EFFECTS DEVICES

- A. Using soft gloves or a clean soft cloth carefully reach under the effects device and remove baffle by pulling down.
- B. To change optic, carefully grab and twist counter-clockwise to remove and clockwise to secure. Ensure that both feet of optic properly engage LED base.
- C. To change lens / film, remove lens retainer and gasket by loosening and removing hex screw with the provided Allen wrench. Insert preferred lens / film in proper orientation, securing with lens retainer / gasket and replacing and tightening screw (Fig.45).
- D. Connect safety lanyards and reinsert baffle to locked position by pushing up into trim aperture (Fig.41).

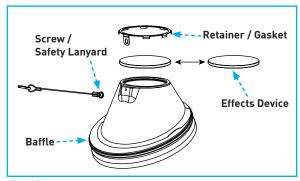


Fig.45

### 2. REPLACING LED ASSEMBLY

A. Remove LED assembly:

- 1. Using soft gloves or a clean soft cloth carefully reach under the effects device and remove baffle by pulling down.
- 2. Remove optic from LED assembly by twisting counter-clockwise.
- 3. Using a standard #2 Phillips-head screwdriver, remove 2 screws from LED assembly to detach from mounting surface (Fig. 46).
- B. Release LED assembly from wiring harness by disconnecting 2-pin quick connectors.
- C. Replace with new OEM LED assembly sourced through Lucifer Lighting, reversing order of preceding steps positioning LED in same orientation.
- D. Reinstall optic and baffle.

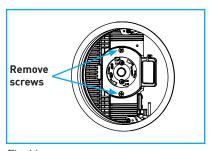


Fig.46

### 3. DRIVER REPLACEMENT

- A. Using soft gloves or a clean soft cloth carefully reach under the effects device and remove baffle by pulling down.
- B. To remove optic, carefully grab and twist counter-clockwise.
- C. Release driver wiring from push-in connectors to LED assembly.
- E. Carefully pull on driver wiring harness to release the driver from the Velcro. Remove driver through housing aperture. (Fig. 47).
- D. Disconnect driver from line/mains voltage and any control wiring.
- F. Replace with OEM driver sourced through Lucifer Lighting referencing the wiring instructions in section C.4 reversing preceding steps to reinstall driver.
- G. Reinstall optic and baffle.

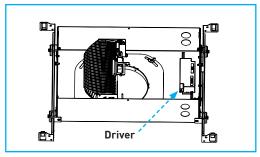
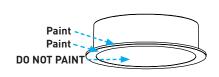


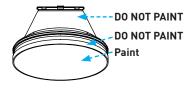
Fig.47

### 4. FIELD PAINTING OF TRIM

Though we strongly recommend custom paint be applied by factory during manufacturing, trim and baffle may be field painted without impacting factory mechanical warranty using following guidelines:

- Select paint suitable for application and location of trim, recognizing that Lucifer Lighting Company fixtures are tested not to exceed temperatures of 90° Celsius. Typical operating temperature of faceplate is 46° Celsius nominal.
- Trim plate surface must be properly prepped in accordance with paint manufacturer's instructions. Paint supplied and furnished by customer.
- Apply paint to trim flange and interior of baffle only, do not apply paint to lens.
   Minimal tolerance exists between baffle and flange. Excess paint buildup may interfere with baffle installation.



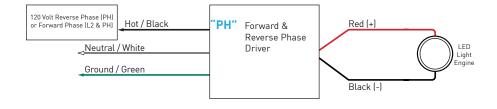


### I. DRIVER WIRING DETAIL

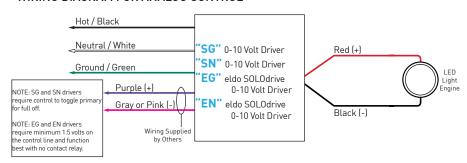
### **GENERAL WIRING NOTES**

- Consult approved dimmer list to ensure compatibility.
- 2. Install in accordance with manufacturer's dimmer installation guidelines.
- 3. Secondary and 0-10V connections are polarity sensitive.

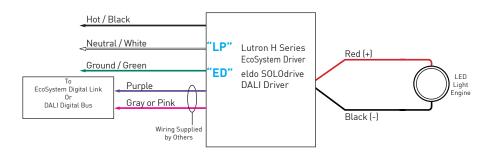
### WIRING DIAGRAM FOR LINE DIMMING



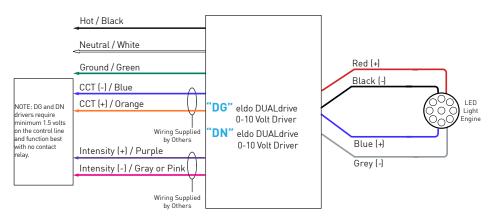
### WIRING DIAGRAM FOR ANALOG CONTROL



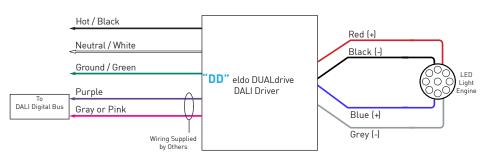
### WIRING DIAGRAM FOR ECOSYSTEM AND DIGITAL CONTROL



### WIRING DIAGRAM FOR TUNABLE WHITE ANALOG CONTROL



### WIRING DIAGRAM FOR TUNABLE WHITE DALI CONTROL



## Please consult website for full warranty terms and conditions: www.luciferlighting.com/warranty

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