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

Fixtures to be mounted in conditions where ambient temperatures do not exceed 40°C.

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

B. SAFETY INSTRUCTIONS

1. Read installation instructions completely before attempting installation.
2. Failure to follow instructions may result in improper installation and void warranty.
3. Contact Lucifer Lighting Company with any questions or concerns before beginning any installation.
4. Ensure qualified electrician will perform all electrical procedures.
5. 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.
6. Install / mount recessed downlight housing on structurally sound surface.

7. Recessed downlight housings may be installed in dry / damp locations only.
8. Do not install recessed downlight assembly closer than 6” (152mm) from curtains, exotic veneers, or similar combustible or heat-sensitive materials.
9. **IC housing requires:**
   Direct contact with polycell spray foam insulation having max R-Value of 60 allowed on all sides and top of housing.
10. **Non-IC housing requires:**
   - Minimum 1/2” (13mm) setback from combustible and non-combustible materials on all sides and top of housing.
   - Minimum 3” (76mm) setback from insulation material having max R-value of 30 on all sides and top of housing.
   - Minimum 6” (152mm) from polycell spray foam insulation having max R-Value of 60 on all sides and top of housing.

Consult factory for spacing requirements for any installations exceeding R-Value of 60.
11. **Remodel fixture requires:**
   - **Minimum 6.63” (168mm) radius** setback from combustible and non-combustible materials from fixture centerline and **0.75” (19mm)** clearance from top of trim.
   - **Minimum 3” (76mm)** clearance from surfaces of power supply / junction box, if not situated within above noted radius from fixture centerline.
   - **Minimum additional 3” (76mm)** setback from insulation material with max R-Value 30 from any surface of downlight fixture assembly.
   - **Minimum additional 6” (152mm)** setback from polycell spray foam insulation with max R-Value 60 from any surface of downlight fixture assembly.
   - Consult factory for spacing requirements for any installations exceeding R-Value of 60.

12. Do not attempt this installation if you do not understand these instructions.
C. HOUSING INSTALLATION

1. KEY FIXTURE COMPONENTS

Become familiar with wiring compartment, hanger bar assemblies and housing collar.

IC and Non-IC housings provide access to splice compartment through housing neck for servicing from below. Grasp tab on splice compartment door, pulling forward to release (Fig.1). See Section H for servicing instructions.

**Note:** Housing lid is not removable in the field.

Housings also provide access to splice compartment from ceiling side via cover plate retained with screws (Fig.2).

Remodel driver assembly features detached j-box with integral splice compartment and 6” flexible conduit with connector for joining with trim (Fig.3). See Section D for remodel installations.

Remote driver assembly features integral driver with separate primary and secondary wiring compartments (Fig.4).

**Important:** Remote driver must be mounted in accessible and serviceable area.

**Note:** PSF4-RMT-AK accessory kit (Fig.5) supplied when PSF4-RMT power supply is specified with remodel application trims. PSF4-RMT-AK not required when using remote IC or Non-IC housing.
Housings outfitted with fixed-depth collar, preset to 0.53” for round or square fixtures for all ceiling thicknesses. Collar for square fixtures can be rotated up to 45° to ensure proper alignment. Secure collar to prevent rotation using set screw on bottom of housing [Fig.6].

2. HANGER BAR ASSEMBLIES

**Note:** For remodel installations where traditional housing is not used, see Section D.

Hanger bars extend from 14” to 24” centers and mount to short axis of housing. To install hanger bars on housing, slide mating halves together, joining through mounting bracket on housing sides. Secure position with central locking screw [Fig.7].
3. MOUNT HOUSING
Follow steps to ensure successful installation. For remodel installations, see Section D.

**General Housing Mounting Notes:**
Housings installed in accessible and non-accessible ceilings must be supported from structural members only. Do not support housings by lay-in ceiling tile or support T-bars, unless deemed suitable by NEC national and/or local code authority.

Recessed downlight housings are thermally protected, as required by Underwriters Laboratories (UL). Cycling fixture may indicate improper housing installation, inadequate plenum space surrounding housing, or incompatible higher-wattage LED for specified housing. Verify insulation spacing complies with required setbacks [see Section B] and LED wattage is suitable for housing.

Determine specified fixture location, ensuring that sufficient space exists to accommodate housing while maintaining factory-established setbacks from construction materials and insulation [see Section B].

With hanger bars properly affixed to housing [see Section C-2], attach hanger bars to selected framing member.

**Wood or Metal Studs:**
Position reference tab of hanger bar foot to underside of stud (Fig.8). If wood, use integral nailing tab and suitable customer-supplied nail or screw to secure. If metal, use suitable customer-supplied screws (Fig.9).

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

**T-Bar Frame:**
Slide hanger bar over appropriately supported T-bar frame. Lock in place using customer-supplied #8 self-tapping screw in hanger bar foot (Fig.10).

**Note:** See Section C-5 for additional instructions regarding installation of ceiling tiles.

**Furring Channel:**
Bracket accommodates 1 1/2” depth furring channel as shipped. If using 7/8” depth furring channel, fold at break line and remove extension tab. Install bracket by latching it over the flanges of the channel. Fold tabs toward channel to lock bracket in place. Secure hanger bar to bracket using supplied screws (Fig.11).
Verify correct housing aperture position using laser or string line, referencing edges of housing *(Fig.12)*.

Tighten hanger bar locking screw to set lateral movement, and ensure all mounting screws are securely tightened (see Section C-2).

**Important:** Collar must not protrude beyond ceiling plane *(Fig.13)*.

---

4. WIRE HOUSING

**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), 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 splice compartment should be provided in minimum lengths of 14” (356mm) to accommodate future servicing.

Metal conduit shall be used if required by applicable codes. The conductor insulation must feature the appropriate temperature rating as specified on the label for each Lucifer Lighting Company downlight housing.

The ground wire at the service junction box shall be secured to a ground screw. No part of the secondary circuit shall be grounded.

For dimming equipped systems, consult controls manufacturer to verify control compatibility and for proper installation procedures.
Wiring Installation Process:

**Note:** For remote power supply, see Section C-4.1.

Splice compartment / power supply assembly provides three (3) wires for connection to line voltage: black, white and green ([Fig.14]).

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

Remove splice compartment cover to gain access to wiring compartment ([Fig.15]) or remodel power supply ([Fig.16]).

**Note:** If using IC housing, ensure that cover plate gasket is undamaged.

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

Join structured building wires to corresponding housing wires with suitable customer-supplied wire connecting device ([Fig.14]).

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

Push all wires and wire connections into splice compartment, reinstall splice compartment cover, ensuring that no wires are pinched or frayed.

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

Confirm housing remained in the desired position.

![Fig.14](image1)

![Fig.15](image2)

![Fig.16](image3)
4.1 REMOTE POWER SUPPLY
Determine preferred mounting location, verifying that fixture falls within maximum allowed wiring distance [(Fig.17)].

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 ground wire necessary on secondary side.

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.18)].

Mount transformer back plate assembly to suitable substrate using customer-supplied screws [(Fig.19)].

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 I 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 that no wires are pinched by cover. Install retaining screws.

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Fig.17
Min. 8” feed wires in splice compartment

Fig.18
Hole locations may vary

Fig.19
5. CEILING SUBSTRATE AND FINISH OUT

5.1 CEILING THICKNESS
Fixtures compatible with .25” (6.3mm) to 1.25” (32mm) ceilings. Trimless fixtures require a minimum .50” (12.7 mm) ceiling. Deep regress fixtures can accomodate up to 2.50” (63mm).

5.2 CEILING CUT-OUTS
Factory recommends use of properly sized hole saw. Correct size and quality of hole is critical. Many trims have minimal ceiling overlay of trim flange.

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

**IC & NON-IC HOUSINGS CUT-OUTS:**
- 4.625” (117mm) diameter for round fixtures
- 4.625” x 4.625” (117mm) for square fixtures

**REMODEL / TETHERED POWER SUPPLY FIXTURE CUT-OUTS:**
- 4.42” (113mm) min. - 4.5” (114mm) max. diameter for round fixtures
- 4.42” x 4.42” (113mm) min. - 4.5” x 4.5” (114mm) max. for square fixtures

5.3. JA8-2016 TITLE 24 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.20) (Fig.21).*

5.4 GYPSUM BOARD
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. **Note:** For trimless installations, see Section F. **Important:** If trimless, appliqué must be installed prior to mudding or finishing of ceiling. Sand, prime, and apply finish coat to ceiling.

5.5 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. **Important:** Trimless installations are not compatible with wood ceiling applications.
5.6 T-GRID LAY-IN TILE CEILING
Install tiles in accordance with manufacturer’s recommendations. 
**Note:** See General Housing Mounting Notes in Section C-3. 
**Important:** Trimless installations are not compatible with lay-in tile ceiling applications. 
**Important:** Remodel installation methods are not suitable for lay-in tile ceiling applications; use housing instead.

**D. REMODEL APPLICATION**
These instructions for remodel installations only. For housings, see Section C.

During rough-in stage of construction, identify approximate fixture locations. Ensure that sufficient space is available to accommodate factory-required setback and depth allowances [see Section B-11] for respective trim and remodel driver assembly.

Install appropriate conduit and wiring to each predetermined fixture location, in accordance with NEC and local code requirements, ensuring that adequate slack is provided for making connections to fixture from below finished ceiling plane.

Install finished ceiling. For Standard Flange and MicroFlange applications, finish ceiling in accordance with Section C-5. For Trimless applications, see Section F.

Determine center point of trim location, boring clean and precise cut-out. Be cautious to avoid cutting or nicking wires above.

Locate and guide structured wiring / conduit down and through ceiling cutout [Fig.22].

Access splice compartment of PSF4-RMT remodel power supply or PSF4-RMT-AK remote adapter kit by removing retaining screw(s), then tilting cover slightly back and away from base [see Section C-4.1].

Insert wiring / conduit into splice compartment, utilizing appropriate strain relief or connector.

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

For PSF4-RMT remodel power supply,
For PSF4-RMT-AK remote adapter kit, reference Section C-1, noting that only paired secondary wiring is involved. 
**Note:** Improper polarity may cause damage to the unit and can void the warranty.

Push all wires and wire connections into splice compartment, and reinstall splice compartment cover by aligning tab and slot, ensuring that no wires are pinched by cover. Install retaining screw(s).

Carefully insert finished power supply / adapter kit assembly up through cut-out to rest atop the ceiling, taking care not to damage ceiling plane or cutout [Fig.23].
E. DRIVER / TRIM INSTALLATION

1. DRIVER INSTALLATION

The following instructions assume that housing has been installed with initial alignment completed. For remodel installations, see Section D.

Join 6- or 9-pin quick-connector (Fig.24) to connector within housing.

Raise driver sled assembly into housing through housing collar, making sure to lead with driver sled and not sleeved wires (Fig.25).

Leave sleeved wire with 2- or 4-pin quick-connector (Fig.24) to dangle from ceiling through housing collar.

Rest driver sled on bottom surface of housing and slide to back, pressing firmly until Velcro engages to retain sled in place (Fig.26).

For completed driver installation in housing, see Fig.26.
2. TRIM INSTALLATION
The following instructions are for Standard Flange and MicroFlange fixtures, assuming that housing has been installed with initial alignment completed and/or proper ceiling cut-out has been made ready to accept trim. For Trimless fixture installations, see Section F.

**Important:** Before final downlight installation in ceiling, ensure that LED engine assembly is secure and properly affixed to downlight trim ([Fig.27]). See Section H for LED engine assembly installation.

For ceiling thickness of .50" and below, employ plastic spacers ([Fig.28]).

Join trim connector to housing or remodel connector. Raise trim into housing collar or ceiling cut-out, ensuring that the trim’s locking tabs are retracted into aperture. Once seated in housing or ceiling, extend locking tabs to hold trim in place ([Fig.29]).

**Important:** Square fixtures require final alignment. Gently tighten locking tab screws until trim is snug ([Fig.29]), utilize string line or laser level to obtain uniform or desired alignment between fixtures or in relation to parallel planes.

Tighten locking tab screws until trim is firmly held in place ([Fig.29]).

**WARNING:** Do not tighten locking tab screws using a powered screwdriver.
3. OPTIC INSTALLATION

**Important:** Before installing, ensure LED engine assembly is secure and properly affixed to downlight trim ([Fig.30]). See Section H for LED engine assembly installation.

Secure optic to LED module by aligning two locking tabs and twisting clockwise.

4. BAFFLE INSTALLATION

**Fixed and Adjustable Fixtures:** Raise baffle into trim aperture and press firmly until baffle snaps into place.

**Wallwash Fixtures:** Baffle requires alignment ([Fig.31]). To achieve proper wallwashing, ensure that the baffle and trim are oriented to direct light perpendicular to the washed wall ([Fig.32]).

For examples of proper and improper orientations of the baffle, see [Fig.33].
F. TRIMLESS
The following instructions assume that housing has been installed with initial alignment completed and/or proper ceiling cut-out has been made ready to accept trim with attached appliqué.

**With Housing:** For installations utilizing a downlight housing, raise trim mechanism with attached appliqué and with baffle removed into housing collar, making sure that the trim’s locking tabs are retracted into aperture. Once seated within housing, extend locking tabs to hold trim in place.

**Important:** For square fixture installations, appliqué requires final alignment. Gently tighten locking tab screws until trim is snug in place, and utilize string line or laser level to obtain uniform or desired alignment between multiple fixtures or in relation to parallel planes *(Fig.34).*

Tighten locking tab screws until appliqué is firmly seated against ceiling surface *(Fig.35).*

**Without Housing:** For remodel or tethered power supply installations without a housing, raise trim mechanism with attached appliqué and with baffle removed into ceiling cut-out, making sure that trim’s locking tabs are retracted into aperture. Once seated in ceiling, extend locking tabs and tighten locking tab screws until appliqué is fully seated against ceiling surface *(Fig.36)*, ensuring desired alignment if square appliqué is used.

**WARNING:** Locking tab screws must be hand tightened.

After fixture is secured, install plaster plug *(Fig.37).* Apply tape over finger pull to protect optic and LED. 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.38].

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.39]. Allow drywall compound to dry fully and cure.

Gently use block sanding screen to sand surface [Fig.40] 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 plaster 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 fixture installation and satisfactory trimless appearance.
G. ADJUSTABLE FIXTURES
Hot-aimable tilt and rotation adjustment is accessed by removing fixture’s baffle, revealing adjustment mechanisms [Fig.41].

With baffle removed, locate tilt adjustment screw and rotation lock screw. Adjustments to fixture tilt and rotation are most effective when made after installing fixture into ceiling.

**WARNING:** Do not adjust fixtures using a powered screwdriver.

**Tilt:** To adjust, use standard #2 Phillips-head or flat-head screwdriver engaged with black crossed-slot screw and rotate counter-clockwise to increase tilt angle (up to 40° max), or clockwise to decrease tilt angle [Fig.42].

**DO NOT TURN SCREW PAST LIMITS OF ADJUSTMENT.** May result in damage to mechanism.

**Rotation:** To adjust, locate silver lock screw and loosen with standard #2 Phillips-head screwdriver. Set desired position by hand with gentle outward force of fingers in trim aperture, turning to desired orientation. Tighten lock screw to secure [Fig.43]. **DO NOT OVER-TIGHTEN.**

Complete installation by replacing baffle into fixture aperture.
H. SERVICING FIXTURE

Important: Before servicing or maintaining trim or housing, 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. REPLACING LED ENGINE ASSEMBLY
A. Remove engine from ceiling using following techniques for the respective trim type:
   1. Standard Flange / MicroFlange Trims
      • Grasp baffle using soft gloves or with clean soft cloth and remove by pulling down from mounting plane.
      • Using standard Phillips-head screwdriver, loosen black locking screws from locking tabs within trim aperture.
      • Applying upward pressure to support weight of trim, slide locking tabs so that they are entirely retracted within trim aperture. This process made easier with use of sharp or pointed tool to hook locking tabs [Fig.44].
      • Entire trim should slide out from housing collar.
      • With trim removed, release optic by twisting counter-clockwise.
      • Using standard Phillips-head screwdriver, remove 2 silver screws from black heat sink to detach LED engine from trim.
   2. Trimless
      • Grasp baffle using soft gloves or with clean soft cloth, and remove by pulling down from mounting plane.
      • Remove optic by twisting counter-clockwise.
      • Applying upward pressure to support weight of LED engine, use standard Phillips-head screwdriver to remove 2 silver screws from black heat sink.
      • LED engine should slide out from trim aperture.

2. EXCHANGING OPTIC / EFFECTS DEVICES
A. To begin installing, changing, or rearranging optic or effects devices, remove baffle by pulling down from mounting plane.
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 by loosening and removing screws. Insert preferred lens/film in proper orientation, securing with lens retainer and replacing and tightening screws.
D. Reinsert baffle to locked position by pushing up into trim aperture.
3. DRIVER REPLACEMENT

A. Replace driver using following techniques for the respective installation type:

1. **Standard Flange / MicroFlange Trims**
   - Driver assembly is accessed through housing aperture. With trim removed, insert hand through housing opening, grasping sleeved wires and pulling outward to release driver sled assembly from Velcro.
   - Rotate driver sled assembly as required to facilitate guiding down and through ceiling opening.
   - Uncouple 6- or 9-pin quick-connector to free sled from housing.
   - Replace with OEM driver assembly sourced through Lucifer Lighting.
   - Join quick-connector of driver and housing, returning driver sled back through housing opening.
   - Ensure that wires are correctly placed and rest driver sled on bottom surface of housing.
   - Slide sled assembly into back corner of housing, pressing firmly until Velcro engages to retain sled in place.

2. **Trimless - Fixed/Wallwash**
   - Begin by removing LED engine assembly [see Section H-1], but do not disconnect wiring harness.
   - Pull wiring harness to guide driver through opening of trim.
   - Uncouple 6- or 9-pin quick-connector to free sled from housing.
   - Replace with new OEM driver assembly sourced through Lucifer Lighting.
   - Join quick-connector of driver and housing, returning driver sled back through housing opening.
   - Ensure that wires are correctly placed and rest driver sled on bottom surface of housing.
   - Slide sled assembly into back corner of housing, pressing firmly until Velcro engages to retain sled in place.

3. **Trimless - Adjustable**
   - Remove adjustment mechanism by loosening locking screw and removing two shoulder screws *(Fig.45)*.
   - Pull wiring harness to guide driver through opening of trim.
   - Uncouple 6- or 9-pin quick-connector to free sled from housing.
   - Replace with new OEM driver assembly sourced through Lucifer Lighting.
   - Join quick-connector of driver and housing, returning driver sled back through housing opening.
   - Ensure that wires are correctly placed and rest driver sled on bottom surface of housing.
   - Slide sled assembly into back corner of housing, pressing firmly until Velcro engages to retain sled in place.
   - Reinstall adjustment mechanism by installing shoulder screws and tightening the locking screw. *(Fig.45)*.
4. **Remodel**
   - Pull wiring harness to guide remodel power supply through opening.
   - Open power supply assembly by removing retaining phillips screw.
   - Disconnect line voltage wiring and remove sled assembly from conduit or wiring.
   - Replace with new OEM power supply assembly sourced through Lucifer Lighting.
   - Reconnect proper strain relief or conduit to sled assembly and terminate wires with suitable splice connections in accordance with standard practices.

B. Reinsert trim and LED engine assembly, following previous instructions.

4. **FIELD PAINTING OF TRIM**
   Though we strongly recommend custom paint be applied by factory during manufacturing, trims may be field-painted without impacting factory mechanical warranty using following guidelines:
   - Recommend specifying **RMP-F4R** (round) or **RMP-F4S** (square) aperture plug.
   - 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.

**Important:** Paint to be applied to trim flange only. Any disassembly or modification to trim or mechanism voids factory warranty and may represent an unsafe operating condition. Minimal tolerance exists between baffle and flange. Excess paint buildup may interfere with baffle installation.
I. DRIVER WIRING DETAIL

WIRING DIAGRAM FOR LINE DIMMING

- **Lucifer Lighting Power Supply**
- **“TR2”** Forward & Reverse Phase Driver
- **“L23”** Lutron Hi-Lume A Series Forward Phase Driver

WIRING DIAGRAM FOR ECOSYSTEM AND DIGITAL CONTROL

- **Lucifer Lighting Power Supply**
- **“LH1”** Lutron H Series EcoSystem Driver
- **“ED1”** eldo SOLOdrive DALI Driver
- **“LD1”** eldo SOLOdrive DALI Driver

WIRING DIAGRAM FOR ANALOG CONTROL

- **Lucifer Lighting Power Supply**
- **“AN4”** 0-10 Volt Driver
- **“LN2”** 0-10 Volt Linear Driver
- **“EA2”** eldo SOLOdrive 0-10 Volt Driver
- **“LA2”** eldo SOLOdrive 0-10 Volt Driver

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**NOTE:** Control must switch primary for full off.
**WIRING DIAGRAM FOR TUNABLE WHITE ANALOG CONTROL**

Lucifer Lighting Power Supply

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Wiring Supplied by Others

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To 0-10V Dimmer
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CCT [-] / Blue

CCT [+] / Orange

Wiring Supplied by Others

Intensity [+] / Purple

Intensity [-] / Grey

Wiring Supplied by Others

**WIRING DIAGRAM FOR TUNABLE WHITE DALI CONTROL**

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Wiring Supplied by Others

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To DALI Digital Bus
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DALI [+] / Purple

DALI [-] / Grey

Wiring Supplied by Others

```
To 0-10V Dimmer
```

DALI (+) / Purple

DALI (-) / Grey

Intensity (+) / Purple

Intensity (-) / Grey
LUCIFER LIGHTING COMPANY (Seller) warrants that for a period of one (1) year from date of sale to the first non-retail purchaser, Seller will repair or replace, at the Seller’s sole option, free of charge, any defective products purchased from Seller provided that prior authorization is obtained from the Seller and the products are sent prepaid to the Seller’s manufacturing facility. Lamps are not warranted or guaranteed in any manner for any length of time, except LED lamp modules and power supplies used in Seller’s recessed, surface mount and exterior lighting fixtures, are warranted to operate with 70% lumen maintenance from the date of sale by Seller for five (5) years. LED MR-16 style lamps supplied by Seller are only warranted as provided by their original maker. Please refer to the following limiting conditions.

1. The Citizen, Bridgelux, Xicato, Sharp and Lumenetix LED lamp modules provided by Seller are only suitable for use in ceiling or plenum conditions where the maximum operating temperature of the module does not exceed 90°C (194°F) and/or the ambient temperature does not exceed 40°C (104°F) or lower threshold as featured on Seller’s product specification literature.
2. These terms only cover the power supply (if purchased from Seller) and Citizen, Bridgelux, Xicato, Sharp, and Lumenetix LED modules.
3. If installed outdoors, the power supply must always be shielded from direct sunlight. The power supply cannot be installed in areas where liquids may pool.
4. The end user must ensure that the AC input voltage has measures in place to prevent lightning strike surges and that large load shift surges are reduced or eliminated prior to the input of the power supply. Power supplies returned with this type of damage are not covered under Seller’s Limited Warranty.
5. Seller reserves the right to physically evaluate the LED module and driver supplied by Seller for compliance with these conditions. An end user’s refusal to return such fixture articles shall void Seller’s Limited Warranty.
6. The LED module will be considered in working condition and therefore not warrantable if it meets or exceeds 70% of its original flux and remains within a range of 3 duv.
7. The color temperature of the Citizen, Bridgelux, Xicato, Sharp and Lumenetix LED module is guaranteed to remain within a range of 3 duv for a period of five (5) years from date of sale by Seller.
8. Any tampering or disassembly of the LED module or LED heat-sink assembly without Seller’s prior written consent will immediately void the warranty.

Where Seller’s fixtures are used in conjunction with drivers/power supplies sourced by others and/or where POE (power over ethernet) systems are present, Seller’s warranty will only apply to the Seller supplied lighting fixtures. In all instances where drivers/power supplies and/or POE are by others, the responsibility to confirm the selected power supply[s] conforms to operating parameters of Seller’s fixtures shall be the responsibility of others. Approved parameters (involving voltage, current, and power quality for the selected fixtures and outputs) will be provided by Seller upon request, however the parameters should not be considered exhaustive for the purpose of the warranty and represents a good faith effort by Seller to support its customers. All warranty claims are subject to Seller’s review and if Seller determines the root cause of the issue involves supplied power supply[s] by others, Seller’s warranty shall not be applicable. Further, in such events of supplied power supply[s] by others, Seller makes no guarantee as to fixture operating performance (startup time, flicker, shimmere, pop-on/pop-off, dimming, etc.). In no event shall Seller’s obligations under this warranty extend beyond the initial cost of the products and, accordingly, consequential damages arising out of any claimed product defect are expressly excluded. This Warranty does not cover the costs, if any, in re-installation of products serviced under this Warranty. This Warranty does not cover damage or failure caused by abnormal spikes in power, dirty power, and light fixtures used with power supplies or other products not supplied by Seller, nor shall it apply to defects for which written notice thereof is not received by Seller.

In the event that any of the terms of this Warranty are in conflict with any rule of law or statutory provision or otherwise unenforceable under the laws or regulations of any government or subdivision thereof, such terms shall be deemed stricken from this Warranty, but such invalidity or unenforceability shall not invalidate any of the other terms of this Warranty and this Warranty shall continue in force.

EXCEPT AS TO SELLER’S WARRANTY OF REPAIR OR REPLACEMENT SET FORTH ABOVE, THERE ARE NO UNDERSTANDINGS, AGREEMENTS, REPRESENTATIONS, OR WARRANTIES, EXPRESS OR IMPLIED INCLUDING ANY REGARDING THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT, AND ANY WARRANTIES ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE), RESPECTING LUCIFER LIGHTING COMPANY PRODUCTS. THIS WARRANTY IS THE PURCHASER’S SOLE AND EXCLUSIVE REMEDY AGAINST THE SELLER FOR THE REPAIR OR REPLACEMENT AT SELLER’S OPTION OF DEFECTIVE LUCIFER LIGHTING PRODUCTS. UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR ANY LOSS OR DAMAGE, DIRECT OR CONSEQUENTIAL, ARISING OUT OF THE USE OF, OR INABILITY TO USE, THE PRODUCTS SOLD HERUNDER.

For service under this warranty, please provide the original date of sale and nature of difficulty being experienced. All service matters should be directed to:

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