

LED Circline Installation Instructions

IMPORTANT:

- Before installing lamp, read all instructions and retain for future reference. The important instructions and safeguards that appear in this document are not inclusive of all possible conditions and situations that may occur. It must be understood that common sense, caution, and care are factors that cannot be built into a product. These factors must be supplied by those that care and operate the fixture.
- For additional information required and not covered in this document please contact a local representative.



SAFETY PRECAUTIONS

IMPORTANT:

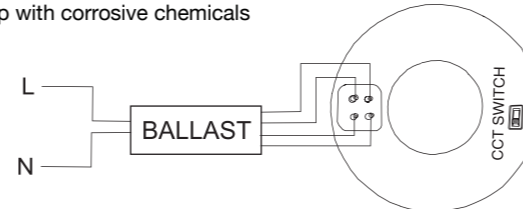
- **WARNING** - Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Do not expose directly to water or submerge lamp.
- **CAUTION - RISK OF ELECTRIC SHOCK.** Do not use if outer lamp envelope is damaged or broken.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation. Installers should not disconnect existing wires from lampholder terminals to make new connections at lampholder terminals. Instead installers should cut existing lampholder leads away from the lampholder and make new electrical connections to lampholder lead wires by employing applicable connectors.
- Installers should examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit.
- **DO NOT INSTALL THIS LAMP IN A PRE-HEAT LUMINAIRE**
- For use in dry or damp locations only.
- Ensure power is OFF at the electrical panel before starting installation or maintenance.
- Verify site supply and voltage matches to the product being installed.
- Ensure wiring connections are not exposed during operation.
- For Type A Lamp: **THIS LAMP ONLY OPERATES ON ELECTRONIC BALLASTS. IF LAMP DOES NOT LIGHT WHEN THE LUMINAIRE IS ENERGIZED, REMOVE LAMP FROM LUMINAIRE AND CONTACT LAMP MANUFACTURER OR QUALIFIED ELECTRICIAN.**
- Modifications to the product will void warranty.
- Only use in place of fluorescent lamps.
- Do not place any objects on the lamp.
- **CAUTION - RISK OF FIRE. IF THE LAMP OR LUMINAIRE EXHIBITS UNDESIRABLE OPERATION (BUZZING, FLICKERING, ETC.), IMMEDIATELY TURN OFF POWER, REMOVE LAMP FROM LUMINAIRE AND CONTACT MANUFACTURER.**
- Ensure lamp is kept away from flame or other high temperature objects.
- If lamp does not light when then luminaire is energized, remove lamp from the luminaire and contact the lamp manufacturer or qualified electrician.
- If the lamp or the luminaire exhibits undesirable operation (buzzing, flickering, etc.), immediately turn off the power, remove the lamp from the luminaire and contact the manufacturer or qualified electrician.
- Do not disconnect existing wires from lamp holder terminals to make new connections.
- For single ended installation (if applicable) do not use with use this lamp with shunted lampholders. Note: Shunted lamp holders are found only in fluorescent luminaires with instant-start ballasts. Instant-start ballasts can be identified by the words "Instant Start" or "I.S." marked on the ballast.
- Not suitable for use as an emergency luminaire
- Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.
- Ambient temperature range under normal operation not to exceed -4°F to 113°F (-20°C to 45°C).
- Wiring must be in accordance with the National Electrical Code and all applicable local electrical safety regulations.

- The lamps are intended to retrofit surface mount or recessed mounted fluorescent luminaires. The minimum lamp compartment dimensions are in the table below with a maximum of 4 lamps.
- Only use the control provided specified to control this lamp. This lamp will not operate properly when connectec to a standard (incandescent) dimmer or dimming control. Go to eiko.com for what dimmers are compatabile.
- Type A LAMP - intended for direct substitution of a fluorescent lamp and operation from the integral ballast without any modifications to the fluorescent luminaire.
- Type B LAMP-intended for operation in luminaires with traditional fluorescent-type lamp holders wired directly to the branch circuit. This includes both factory-wired luminaires as well as those converted for this purpose under a retrofit program.
- This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45-30MHZ.
- **THIS RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION. PRODUCT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH THE APPLICABLE AND APPROPRIATE ELECTRICAL CODES. THE INSTALLATION GUIDE DOES NOT SUPERCEDE LOCAL OR NATIONAL REGULATIONS FOR ELECTRICAL INSTALLATIONS.**
- 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. The units covered by this report were intended to retrofit surface mount, Type IC or non-IC recessed mount listed fluorescent luminaires that us mximum four (4) straight tubular lamps, the minimum lamp compartment dimensions are tabulated below:

Luminaire Dimension (LxWxH)	Max Number of Tubes
11.4" x 11.4" x 3.5"	1 x 8" Circline
14.1" x 14.1" x 3.5"	1 x 12" Circline

MAINTENANCE

- Disconnect lamp from power supply before any maintenance
- Clean lamp with a dry cloth only
- Do not clean the lamp with corrosive chemicals



INSTALLATION: T9 Circline Type A+B

Type A

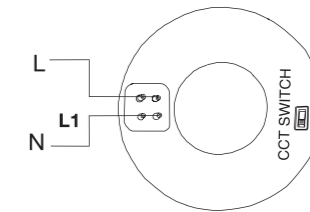
NOTE: this product may not be compatible with all ballasts. For more information about the ballast compatibility list, please carefully check below compatible list.

- STEP 1: Turn OFF power before installation.
- STEP 2: Remove fixture diffuser (if present) and existing fluorescent lamps from the fixture.
- STEP 3: Select the color temperature with the CCT switch on the back of the LED lamp. NOTE: To prevent damage to lamp, turn power off when changing CCT color.
- STEP 4: Install the LED lamp into fixture and secure with the clips (brackets) and connect to the tombstone (4-pin socket).
- STEP 5: Reinstall the trim or diffuser and restore power. Installation complete.

Type B

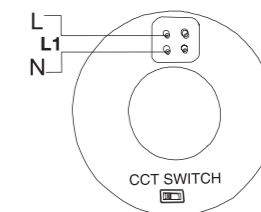
- STEP 1: Turn OFF power before installation.
- STEP 2: Remove fixture diffuser (if present) and existing fluorescent lamps from the fixture.
- STEP 3: Retrofit luminaire: modify the circuit. Bypass and remove the fixture ballast. You may use existing lamp tombstone(s) if in good condition. Use the wiring diagrams to make wiring connections. For wiring above 120V use the N (L1) to connect to the second hot lead.
- STEP 4: Select the color temperature with the CCT switch on the back of the LED lamp. NOTE: To prevent damage to lamp, turn power off when changing CCT color.
- STEP 5: Install the LED lamp into fixture and secure with the clips (brackets) and connect to the tombstone (4-pin socket).
 - a. Connect the lamp into the tombstone, confirm that the lamp pins are aligned according to the wiring diagram Figure 1, 2.
 - b. Turn power on at the wall switch or main circuit breaker panel.
 - c. After the fixture has been modified, apply the label that is in the box explaining to future maintenance persons of Type B change to fixture.
- STEP 6: Replace lens if present and restore power. Installation is complete.

FIGURE 1



AC Direct Input (Type B)

FIGURE 2



AC Direct Input (Type B)