

# KL-R/EZ or FP-R/EZ Installation Instructions for Plaster or Drywall Ceilings

## Important Safeguards

**When Installing Electrical Equipment, Basic Safety Precautions Must Always Be Followed, including the following:**

**Do Not Use This Product For Other Than Intended Use.**

**Caution: Installation Must Be Performed By Qualified Service Personnel.**

**Installation shall be done in accordance with the wiring methods given in the NEC, NFPA 70 Art. 410, 500 & 501-4(b). (as applicable)**

**Use of Accessory Equipment Not Recommended by the Manufacturer May Cause an Unsafe Condition.**

**Read and Follow All Instructional and Cautionary Labels Found On or In This Fixture.**

***Ceiling must be flat (horizontal) to the standard tolerance of 1/8" vertical change over a 10 foot span.***

## Read and Follow All Safety Instructions

- 1) With fixture body resting face up on a stable surface, open doorframe using the provided removal tool
  - a) Opening the fixture: Center the Suction cup tool on the frame near one of the corners and press the cups tightly to the frame. Pull evenly on the tool using a single quick motion.
  - b) If suction cups detach prematurely, make sure that the cups and the door frame surface are clean. If necessary try to wet the cups with a little bit of water. Repeat this process until all 4 corners of the door have been pulled away from the housing.
  - c) To release the door, Squeeze the torsion springs and slip them through the slot.
- 2) Set aside door frame then locate and remove the internal reflector(s)
- 3) Locate one of the provided knockouts on the rear of the housing. Knockouts are pressed back in place and may be difficult to locate. Create the Supply entrance hole in the housing by removing the selected knockout using a screwdriver.
- 4) Remove all debris from the inside of the fixture.
- 5) Prepare a mounting surface capable of reliably supporting more than the weight of the fixture according to applicable building codes. Ceiling cutout size is found on each fixtures catalog page, ensure the catalog number of the spec sheet matches the one in the header on this page. Take care in creating the ceiling cutout being sure that it is rectangular in shape having right angles.
- 6) Note: Ceiling cutout must be reinforced from above using structural materials capable of supporting more than the fixtures weight under all loads
- 7) Rough in supply conduit according to the NEC and local requirements using minimum 90C supply wiring materials. *(Do not make connection until step 13)*
- 8) (This task may require two service people.) Lift fixture into ceiling cutout and adjust toggle arms so that the swing arm is fully extended and overlaps the ceiling structural channels (by others).
- 9) After you are sure that all four toggle arms are supporting the fixture, tighten each toggle arm evenly, drawing the fixture up into the ceiling. Stop when flange is 1" below ceiling.
- 10) Caulk using site approved materials (provided by others) the flange of fixture to ceiling and any adjacent fixtures and continue tightening until fixture is flush with ceiling.
- 11) Remove excess caulk from flange and ceiling.
- 12) Make electrical connections using listed connectors insulated to 600V. Secure or position splices and wires away from reflector mounting points.
- 13) Remove any protective films from the reflective or outer surfaces as provided.
- 14) Replace reflector and secure by tightening screws.
- 15) Install only the rated lamps as marked on fixture.
- 16) Secure Doorframe to housing by inserting all torsion springs into the slots on the housing. The torsion springs are designed to stop at the extended position and requires force to begin closing. Be careful as the door frame will close quickly and may cause injury to hands or fingers if they are located between the door frame and mounting surface.
- 17) Center the door over the housing the door frame up toward the ceiling, as the frame nears the hosing it will quickly complete the closure, center and seal itself. Inspect that it has done so
- 18) Energize fixture with rated voltage from a protected branch circuit.
- 19) Do Not Open or Service Fixture While Energized. Always Disconnect Power from supply before servicing.
- 20) Do Not Operate Fixture when damaged or not completely sealed.

INSTRUCTIONS SUITABLE FOR (FP,KL)-R/EZ- (1x4, 2x2, 2x4) LUMINAIRES.

