

IMPORTANT:

- Read all instructions carefully before attempting installation. If you do not understand these instructions, please consult your local distributor.
- Thoroughly inspect the fixture for any freight damage; freight damage should be reported to the delivery carrier.

CONTENTS:

- (1) 48" Geartray with LED light engines & LED Driver
- (6) #8x1/2" TEK screws (2) Geartray Tethers
- (1) Lens (included with LSR4-SD kits only)
- (2) Lens Endcaps (included with LSR4-SD kits only)
- (4) #8x1" Endcap screws (included with LSR4-SD kits only)



SAFETY:

- This fixture must be wired in accordance with the National Electric Code and applicable local codes or ordinances.
- All work should be performed by a qualified electrician.
- To insure personal safety, proper grounding is required (connect green fixture lead to supply ground).

48" Geartray (LED light engine side)



#8 x 1/2" TEK Screw



48" Geartray (LED Driver side)



Geartray Tether



Lens (included with LSR4-SD kits only)



Lens Endcap
(included with LSR4-SD kits only)



#8x1" Endcap
Screw
(incl. w LSR4-
SD kits only)



⚠ WARNINGS:

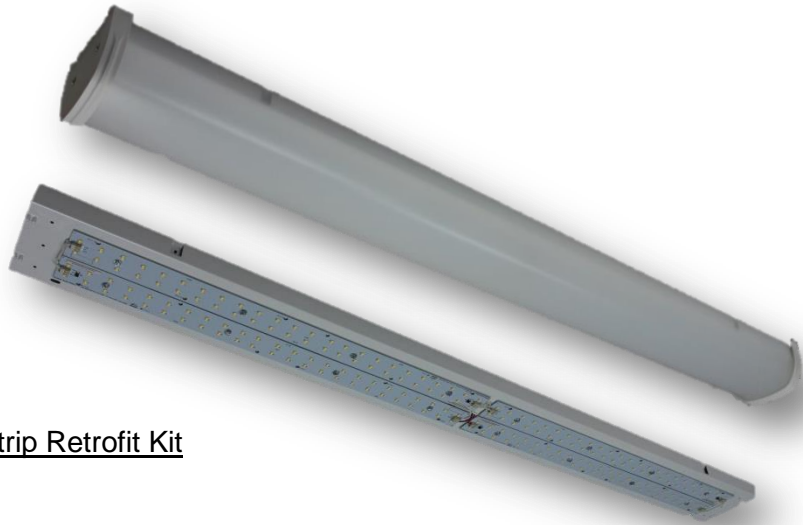
- WARNING - Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for enclosed wiring and components.
- WARNING - Risk of fire or electric shock. Install this kit only in luminaires that have the construction features 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.
- WARNING - Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaire electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- WARNING - To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Only those open holes indicated in the photographs and/or drawings may be made or altered as a result of kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- This kit is intended for use with Surface Mounted luminaires.

Required Size of Existing Fixture

Length: 48.0-48.5"
Depth: 1.25" (minimum)
Width : 4.20-4.30"

LSR Geartray Dimensions

Length: 48.0"
Width: 4.70" w/o Lens
5.25" with Lens and Endcaps



LED Strip Retrofit Kit

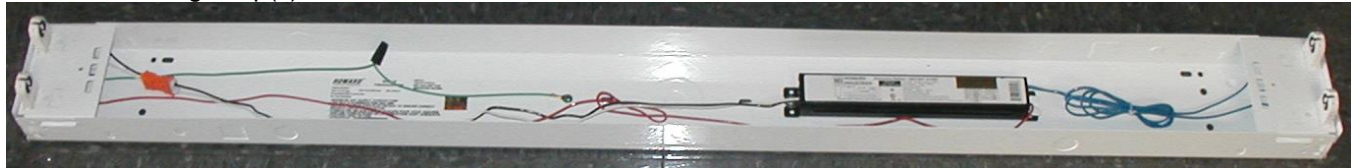
INSTALLATION

WARNING: DISCONNECT POWER TO EXISTING FLUORESCENT FIXTURE DURING INSTALLATION AND BEFORE SERVICING.



STEP 1 – PREP FIXTURE FOR RETROFIT

Remove existing lamp(s) and ballast cover.



Disconnect and remove existing ballast, lampholders, and lampholder wiring. The only remaining wiring should be the supply voltage and ground conductor leadwires.



Note: Socket plates may also need to be removed (see **STEP 4**).

INSTALLATION (CONTINUED)

STEP 2 – TETHER INSTALLATION

Thread one #8 TEK screw through the ring of the Tether and drive it into the fixture. The length of the Tether serves as a template for placement of screw. The screw should be driven one Tether length from the end of the fixture [see **DIAGRAM 1**]. The use of an electric drill with a magnetic socket is highly recommended.

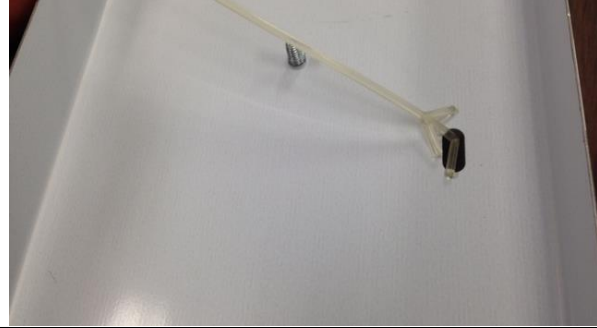
Install “T” end of Tether into LED Driver side of Geartray. Once both Tethers are installed, thread the head of each Tether into the oblong slots of the Geartray [see **DIAGRAM 2**].

Ensure that the Geartray is oriented so that LED driver input leads will reach incoming power supply leads.

DIAGRAM 1



DIAGRAM 2

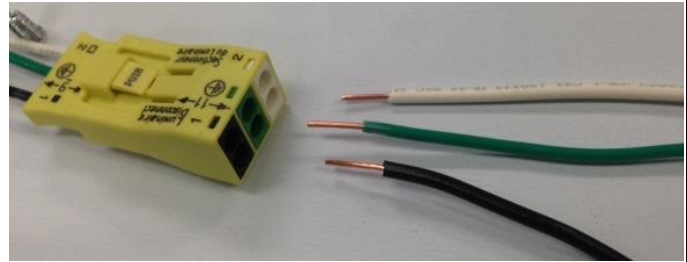


STEP 3 – SUPPLY POWER CONNECTIONS

Insert incoming power into Luminaire Disconnect Plug (LDP) [see **DIAGRAM 3**]. Insert the black supply wire (LINE) into the black hole of the LDP. Insert the white supply wire (NEUTRAL) into the white hole of the LDP. Insert the green supply wire (GROUND) into the green hole of the LDP.

The LDP is not designed to accept stranded wire. To connect LDP to stranded wire, insert solid conductor wires into the LDP then connect stranded wire to solid with a wire nut (not included with kit).

DIAGRAM 3



STEP 4 – SECURE GEARTRAY TO FIXTURE

Close the Geartray, ensuring that no wires are pinched. Affix the Geartray to the fixture by driving #8 TEK screws through (4) mounting holes. It is recommended to use at least (2) of the (3) holes that are provided on each end of the geartray [see **DIAGRAM 4**]. This method is valid only when socket plates are present.

Alternatively, Geartrays can be affixed to the fixture body using #8 TEK screws through each of the holes (total 4) that are provided on the sides of the geartray [see **DIAGRAM 5**].

DIAGRAM 4

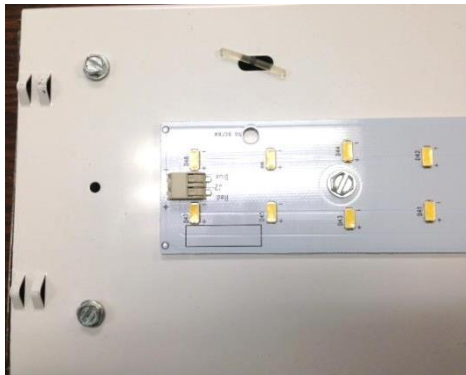


DIAGRAM 5



INSTALLATION (CONTINUED)

STEP 5 - LENS INSTALLATION

Mount the endcap using #8 x 1" screws as shown in **DIAGRAMS 6 thru 9**.
DO NOT install both endcaps before attaching lens.

DIAGRAM 6

Mounting location for endcap.



DIAGRAM 7

Endcap with screw holes.



DIAGRAM 8

Attach Endcap with two #8x1" screws.



DIAGRAM 9

Alternate view showing correct #8x1" screw engagement into Geartray.



DIAGRAM 10

Attach Lens onto edges of Geartray as shown.



DIAGRAM 11

Slide Lens into the Endcap.



REPEAT ENDCAP ASSEMBLY (DIAGRAMS 6 THRU 8) FOR OPPOSITE END OF FIXTURE.

RETROFIT ASSEMBLY IS NOW COMPLETE. REAPPLY POWER TO FIXTURE.