SINCE 1945
KEYSTONE
LIGHT MADE EASY®

DIRECT DRIVE LED
LINE VOLTAGE T8 TUBES

INSTALLATION AND OPERATING INSTRUCTIONS

Catalog Numbers: KT-LED14.5T8EM-48GC-8CSJ-D

1. Product Features:

- UL certified
- Full glass housing: No Aging, Yellowing, Bending.

2. Product Applications:

Widely used in residential buildings, offices, shopping malls, supermarkets, hospitals, assembly lines, warehouses, etc. for energy saving illumination.

3.PARTS/COMPONENTS INCLUDED IN KIT

- Installation Instructions
- Emergency LED tube x 1 PCS
- Luminaire Marking Labels
- Miscellaneous Hardware
- AC Terminal Cable (Black, White, & Red Wires)
- External Test Switch (Purple & Brown Wires)
- Red End Cap Adapter

4. Installation Instructions:

Please comply with all instructions to ensure that the product will operate in a safe condtion.

⚠ Safety Precautions:

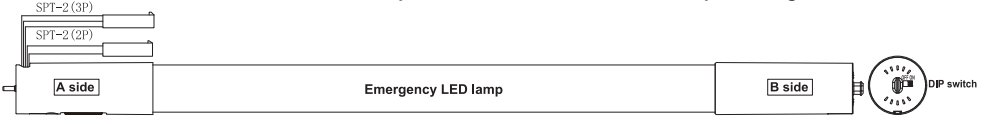
For your safety and the safety of others, please read all instructions carefully before installation.

(1). Product should be installed by a qualified electrician.

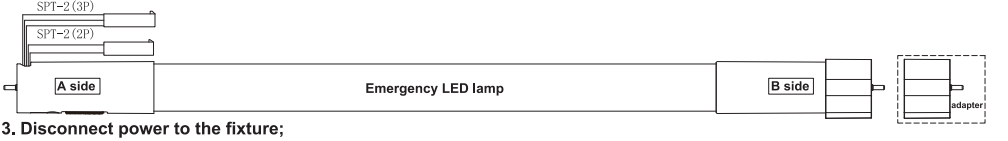
(2). Disconnect power before installation. After installation, ensure proper connections before restoring power.

INSTALLATION INSTRUCTIONS

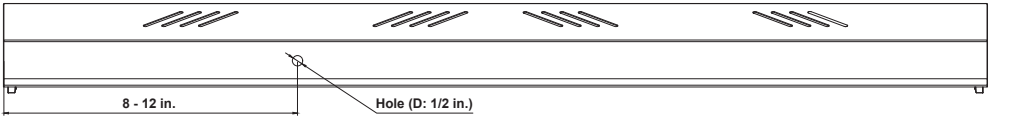
1. Turn the DIP switch on the B side to the "ON" position. This MUST be done before proceeding.



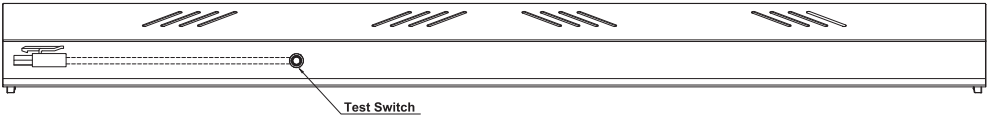
2. Attach the red Adapter to the B side end cap. Once installed, the end cap cannot be removed.



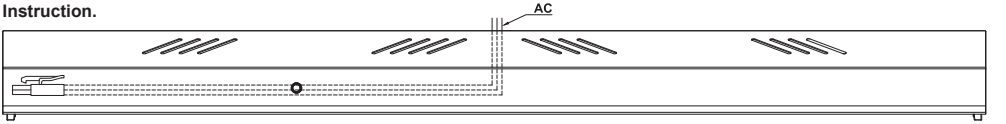
3. Disconnect power to the fixture;
4. Remove any existing tubes, the reflector, and the lamp housing.
5. Locate the hole or knockout for the test switch. If no hole exists, drill a 1/2" hole within 12" of the A side location.



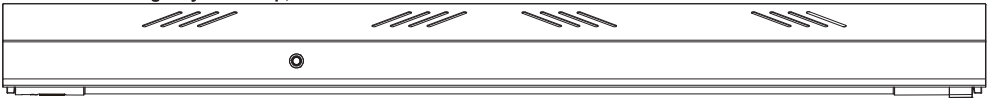
6. Install the External Test Switch into the hole and secure.



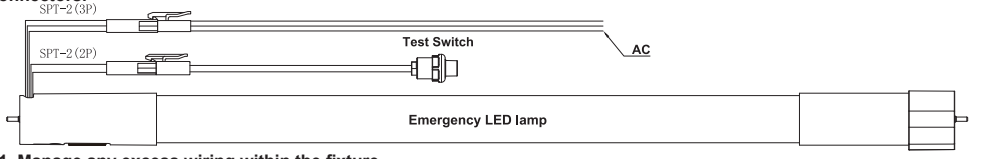
7. Connect the AC Terminal Cable (Black, White, & Red Wires) to the Junction Box as depicted in the below Wiring Instruction.



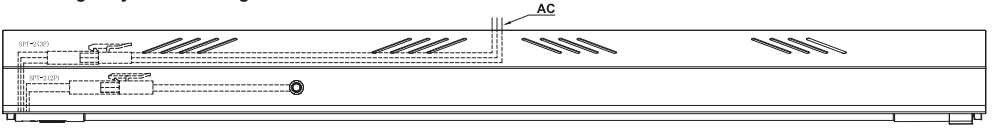
8. Re-Install the lamp housing, reflector, and existing tubes;
9. Install the Emergency LED lamp;



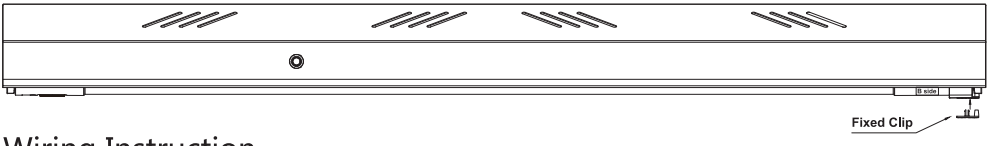
10. Connect the AC Terminal Cable male and female connectors. Connect the External Test Switch male and female connectors.



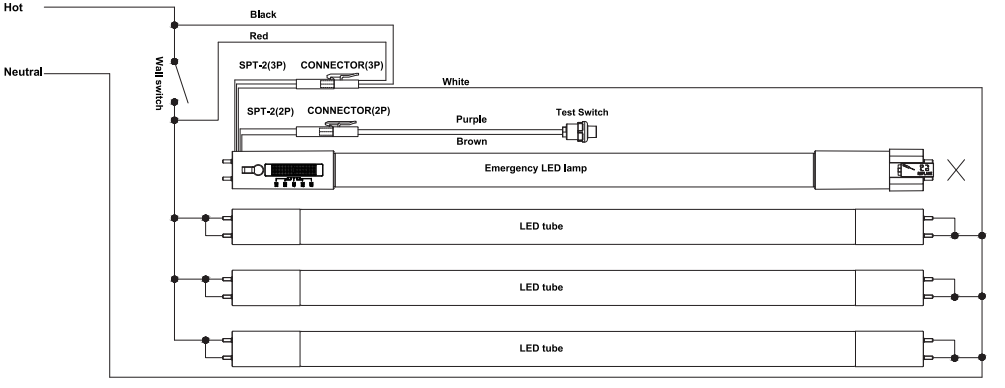
11. Manage any excess wiring within the fixture



12. Install the Fixed Clip at the B side.



Wiring Instruction



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.
AVERTISSEMENT - Risque d'incendie ou de choc électrique. Installation du kit de Retrofit LED exige une connaissance des systèmes électriques luminaires. Si vous n'êtes pas qualifié, ne tentez pas de l'installation. Contactez un électricien qualifié.

WARNING - Risk of fire or electric shock. Install this kit only in the 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.
AVERTISSEMENT - Risque d'incendie ou de choc électrique. Installez ce kit dans les luminaires qui ont les caractéristiques de construction et les dimensions indiquées dans les photographies et / ou dessins et où la cote d'entrée du kit de modification ne dépasse pas la capacité d'entrée du luminaire.

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.

WARNING -To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
AVERTISSEMENT - Pour éviter d'endommager le câblage ou à l'abrasion, ne pas exposer le câblage aux bords de tôle ou d'autres objets pointus.

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.

FOR RETROFIT KITS CERTIFIED TO CANADIAN REQUIREMENTS THE 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 SUPERSEDE LOCAL OR NATIONAL REGULATIONS FOR ELECTRICAL INSTALLATIONS.

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.

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.

The retrofit position is located at the edge of the Target Luminaire which installed Max four LED Tubes. LED Tubes type T8, which have maximum wattage by 24W.

The kit are intended to retrofit Target Luminaires with the following characteristics:

1. **Surface mounted, Type IC or Type non-IC recessed mounted.**
2. **With or without diffuser.**
3. **Not dimmable.**
4. **Max 4 LED Tubes, type T8, which have maximum wattage by 24W.**
5. **The retrofit position is located at the edge of the four LED Tubes.**
6. **One single branch circuit as power supply connection.**
7. **Refer to below table for Min compartment dimension.**
8. **Max. mounting height: 9.9 ft**

	Original LED Tube	MINIMUM LAMP COMPARTMENT DIMENSIONS [length × Width × Height] [mm]	Max No.	Minimum Spacing between tube lamps, center to center(cm)	Dimmable?
Target Luminaire	Type T8. Maximum wattage by 24W	1215x605x75	4	12	NO

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.