







T8 U-Shape LED Tube

**PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION
LEAVE A COPY FOR THE USER / MAINTENANCE ENGINEER FOR FUTURE REFERENCE**

IMPORTANT INSTALLATION INFORMATION

<div style="text-align: center;">  <p>WARNING RISK OF ELECTRIC SHOCK</p> </div> <ul style="list-style-type: none"> • Disconnect power before performing installation or maintenance • T8 U-Shaped LED tubes operate at 120-277V~ 50/60Hz. NB: T8 U-Shaped LED tubes cannot be dimmed and should not be connected to existing dimming switch/equipment. • Verify that supply voltage is correct by comparing it with the luminaire label information. • When modifying an existing T8 fluorescent luminaire to accept T8 U-Shaped LED tubes it is the installer's responsibility to ensure that all electrical connections in accordance with the latest edition of the National Electric Code (NEC) and applicable local code requirements and ensure that the luminaire is electrically safe. • If the supply wire is damaged. It must be replaced by the manufacturer or its service agent or a similar qualified person in order to avoid a hazard. • All wiring connections should be capped with UL approved wire connections. • Caution-Risk of Electric Shock- This retrofit luminaire has been modified and can no longer operate the originally intended lamp, in indoors locations only and not where directly exposed to water. • To reduce the risk of fire or electrical shock, do not expose this apparatus(luminaire conversion or the retrofit kit) to rain or moisture. • To reduce the risk of electrical shock, do not remove cover and caps, fitting must be grounded. 	<div style="text-align: center;">  <p>WARNING CAUTION</p> </div> <ul style="list-style-type: none"> • Suitable for mounting on normally flammable surfaces. • Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. • If electrical appliances are disposed of in landfill or dumps, hazardous substances can be damaging to health and well-being. • Contact your local government for information regarding the collection system available. • This device is not intended for use with emergency exit fixtures or emergency exit lights. • To reduce the risk of electrical shock, do not remove cover and caps, fitting must be grounded. • No user-serviceable parts inside. Refer servicing to qualified/licenced service personnel. • Do not use when enclosure is broken. • To prevent wiring damage or abrasion does not expose wiring to edges of sheet metal or other sharp objects. • T8 U-Shaped LED tubes can operate with single magnetic ballast, however for optimum efficiency and performance; Aurora recommends that the ballast is removed from the circuit. • T8 U-Shaped LED tubes must not be used with electronic ballasts. • To reduce the risk of fire or electrical shock, do not use this retrofit kit in luminaires employing shunted bi-pin 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. Do not make or alter any open holes in an enclosure of wiring or electrical components during the kit installation.
<div style="text-align: center;">  <p>WARNING RISK OF BURNS</p> </div> <ul style="list-style-type: none"> • Do not exceed maximum wattage on luminaire label. • Follow all manufacturer's warnings and recommendations for the driver type, mounting position, methods, replacements and recycling 	<div style="text-align: center;">  <p>WARNING RISK OF FIRE</p> </div> <ul style="list-style-type: none"> • Keep any combustible and other materials that can burn away from the luminaires. • Incorrect installation may result in electrical shock or a risk of a fire • Only electrically licenced personnel should attempt to replace this LED lamp retrofit kit. • Incorrect installation may result in electrical shock or a risk of a fire (Not suitable for dimming)

For Models: AR-UTET86FR/35

MODIFICATION OF EXISTING LUMINAIRES

- **IMPORTANT** an existing T8 U-tube luminaire is designed to be used with standard fluorescent tubes and either electronic or magnetic ballasts. To retrofit LED, T8 U-tubes, the luminaire must be modified, i.e. components removed and wiring altered as per the below instructions. Any modifications to a luminaire will nullify the original manufacturer's certification and declaration of conformity. The person or company modifying the luminaire will take full responsibility for electrical safety, conducted and radiated emissions in accordance with FCC Pt. 15, environmental features, product markings and any legal issues resulting from the modification.
- Existing markings or labels must be removed and new labelling must be added to the luminaire.
- When installing or replacing Aurora LED T8 U-tubes the free end cannot be 'LIVE' and will not cause an electrical shock hazard.

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EMERGENCY LUMINAIRES

Existing emergency pack will not be compatible with LED T8 U-tubes and may either cause damage to the tubes or will not operate correctly. Aurora will not guarantee to give the specified levels or emergency duration time. Existing luminaires used for emergency lighting will require the addition of an emergency pack designed to be used with T8 LED U-tubes.

TUBE REPLACEMENT

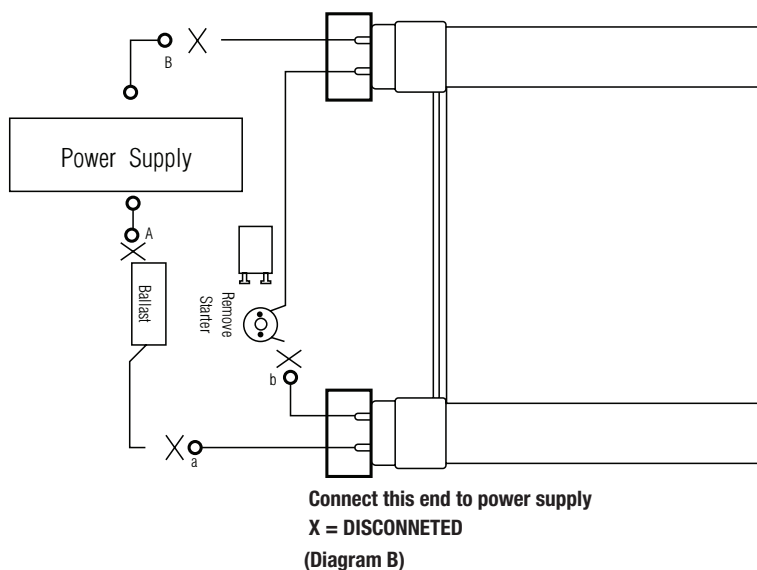
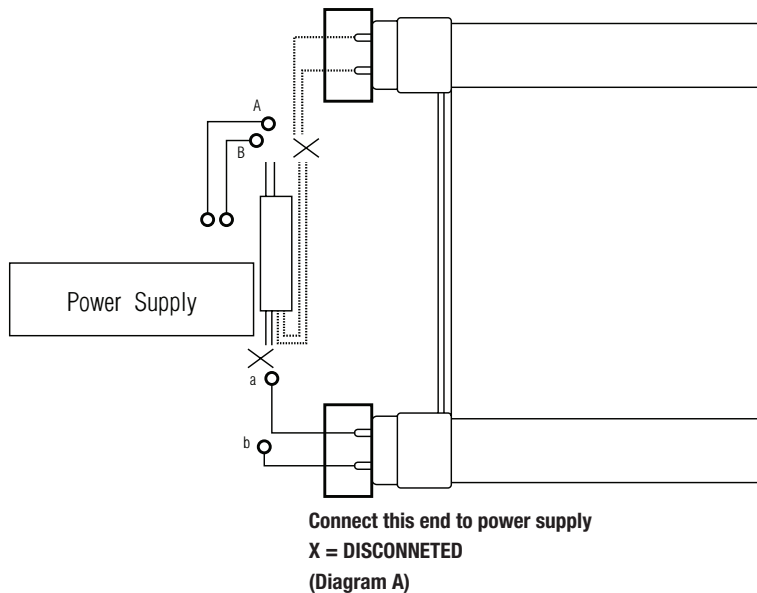
Switch off the mains voltage and check that the luminaire is suitable for use with LED T8 U-tubes. If a fluorescent lamp is fitted then the luminaire will require modification.

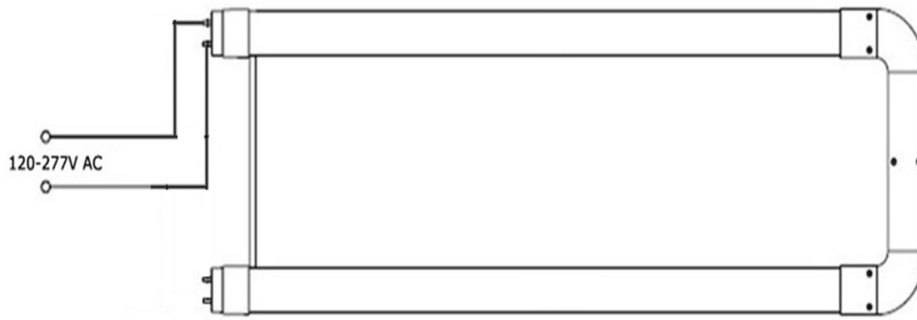
Note: Remove the old T8 LED tube and replace with new.

INSTALLATION INSTRUCTIONS

Note: It is the installer's responsibility to ensure that the luminaire is electrically safe after modification.

- To install the LED T8 U-tube in an existing luminaire with electronic ballast the ballast must be removed and the internal wiring modified as shown in **(See Diagram A)**
- To install the LED T8 U-tube in an existing luminaire with magnetic ballast, the ballast must be removed and the internal wiring modified as shown in **(See Diagram B)**
- Internal ballast, U Shaped tube, wire line voltage directly to the lamp holders. Check label on T8 U Shaped tube for (+Positive) and (– Negative) location. **(See Diagram C)**
- Reinstall any earth connections to the luminaire.
- Remove any existing labelling and apply new labelling, ensure that no reference to fluorescent Lamps remain.
- Remove any Power factor correction capacitors.
- Install T8 U-tube into lamp holder. Slide pins in to opening at top of lamp holder and press down. Pins should lock into place
- Press T8 U-tube into metal bracket to secure lamp in place.





**Check label on T8 U Shaped tube for (+Positive) and (– Negative) location.
(Diagram C)**

WARRANTY:

This product has a warranty of period of 3 years from the date of purchase. The warranty is invalid in the case of improper use, installation, tampering, and removal of the Q.C. date label, installation in an improper working environment or installation not according to the current edition of the National Electric Code. Should this product fail during the warranty period it will be replaced free of charge, subject to correct installation and return of the faulty unit. Aurora does not accept responsibility for any installation costs associated with the replacement of this product. This warranty is in addition to the statutory rights in your country of purchase. Aurora reserves the right to alter specifications without prior notice.