

Important: Read all instructions prior to installation.

Type A / Single/Dual Side Type B LED Tube

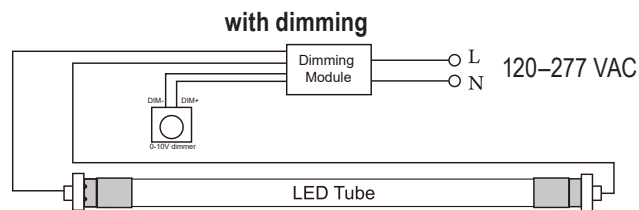
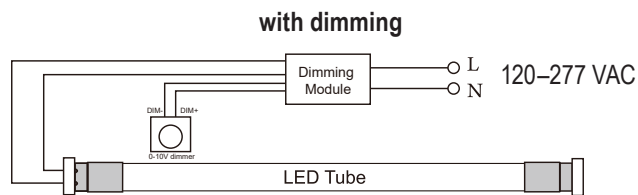
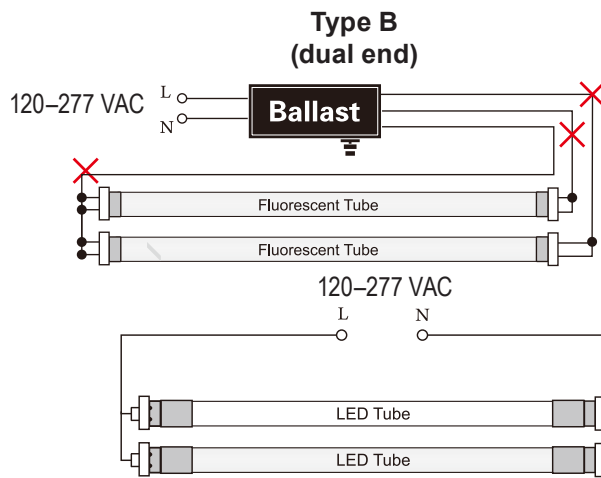
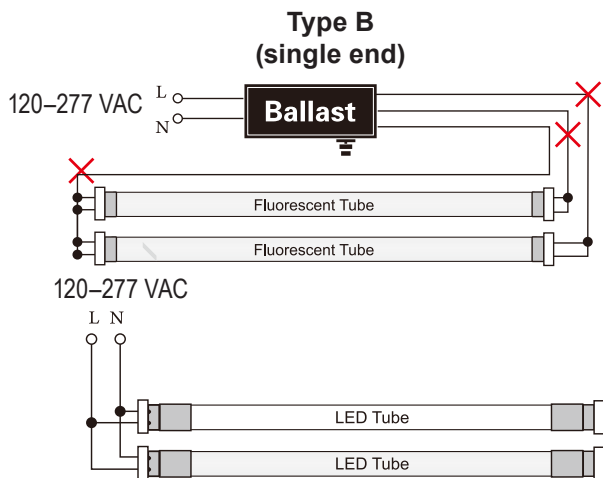
Safety and Notes

- Product should be installed in accordance with all applicable national, state, and local building and electrical codes.
- To reduce the risk of electric shock, ensure that the main power source and circuit breakers are switched off before performing any installation or wiring procedures.
- Avoid looking directly into the lamp when illuminated.



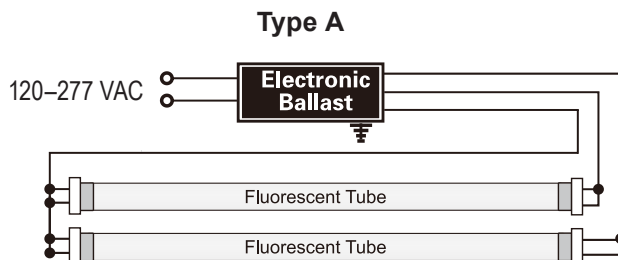
Type B Installation Instructions

1. Remove power from fixture before replacing lamps or modifying ballast.
2. Bypass ballast and use wire nuts to cover any exposed wire ends.
Note: Tubes can be powered using single- or dual-sided installation.
3. If desired, install optional dimming module.
4. Install tubes into fixture, and install retrofit label in a visible location on the fixture.



Type A Installation Instructions

1. Refer to ballast compatibility chart to ensure bulbs will work with existing ballast.
2. Remove power from fixture before replacing lamps.
3. Install tubes into fixture.



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Single/Dual Side Type A/ Type B LED Tube

Modification Label

A label needs to be placed onto the fixture in a location that is visible during retrofit that has the following caution.

Caution Risk of Injury or Damage:

This luminaire has been modified to operate LED lamps. Do not attempt to install or operate fluorescent lamps in this luminaire.



LED LUMINAIRE RETROFIT KIT

FOR USE ONLY WITH FLUORESCENT LUMINAIRES AS IDENTIFIED IN MANUFACTURER'S INSTRUCTIONS.

Control No. 5NV5

Specifications

| Model | T8U2-xK10-AFN | T8U4-xK15-AFN | T8U4-xK18-AFN |
|-----------------------|--|---------------|---------------|
| Operating Temperature | -4°–113° F (-20°–45° C) | | |
| IP Rating | IP20 | | |
| Connection Type | G13 bi-pin | | |
| Dimming | 0–10 V dimming with compatible ballast (Type A) or using dimming module (Type B) | | |

Check product label for specific electrical specifications related to installation. Improper installation will void warranty.

Ballast Compatibility

| Accupro | |
|---------|------------------|
| 1 | AP-432IP-UNV |
| 2 | AP-332IP-UNV-M |
| Advance | |
| 1 | IOPA-4P32-LW-N |
| Espen | |
| 1 | VE232MVHIPL |
| 2 | VE232MVHIPE |
| 3 | VE432MVHIPE |
| 4 | VE432MVHIPL |
| 5 | VE432120HIP |
| GE | |
| 1 | GE232MAX-L/ULtra |
| 2 | GE332MAX-N/ULtra |
| 3 | GE232MAX347-N |
| 4 | GE432MAX347-N |
| 5 | GE232-MVPS-N |
| 6 | GE332-MVPS-N |
| 7 | GE432-MVPS-N |
| 8 | GE432-120RESDIYB |
| 9 | GE-240-RS-MV-N |
| 10 | GE232-N-347 |
| 11 | GE132MAX-H/ULTRA |

| Halco | |
|-------------------|------------------------|
| 1 | EP232IS/L/MV/HE |
| Howard Industries | |
| 1 | EP3/32IS/MV/MC/HE |
| Keystone | |
| 1 | KTEB-232RIS-1-TP-SL |
| 2 | KTEB-232RIS-1-TP-SL/Ga |
| Osram | |
| 1 | QHE 2x32T8/UNV ISN-SC |
| 2 | QHE 3x32T8/UNV ISN-SC |
| 3 | QHE 3x32T8/UNV PSN-SC |
| Philips | |
| 1 | ICN-2P32-N |
| 2 | ICN-3P32-N |
| 3 | IOP-4P32-LW-N |
| 4 | IOPA-1P32-N |
| 5 | IOPA-4P32-N |
| 6 | IOPA-2P32-LW-N |
| 7 | IOP-3P32-N |

| Sylvania | |
|---------------------|-----------------------|
| 1 | QHE 1x32T8/UNV ISN-SC |
| 2 | QHE 3x32T8/UNV ISL-SC |
| 3 | QTP 2x32T8/UNV ISL-SC |
| 4 | QT 4X32/120 LP |
| 5 | QT 2x32 T8/347 ISL-SC |
| 6 | QHE 4x32T8/347 ISN-SC |
| 7 | QHE 4x32T8/347 ISL-SC |
| Triad | |
| 1 | B232IUNVHP-N |
| 2 | B332IUNVHP-A |
| 3 | B432IUNVHP-A |
| 4 | B232IUNVHP-B |
| Universal | |
| 1 | B332IUNVHE-A |
| 2 | B432IUNVHE-A |
| 3 | B232IUNVEL-N |
| 4 | B332IUNVEL-A |
| 5 | B232IUNVHEH-A |
| 6 | B332PUNVHE-A |
| 7 | B432IUNVEL-A |
| Work Horse | |
| 1 | WH3-120-C |
| 2 | WH3-120-L |
| Pacific Fluorescent | |
| 1 | EB-232IS-120-RES |

