



DESCRIPTION

11W T8 3' LED 4000K >83 CRI

Single- or Double-ended Wiring | Ballast and Line-Voltage Compatible

LAMP TYPE: Linear

BULB TYPE: T8 LED

BASE TYPE: G13 (Medium Bi-Pin)

WATTAGE: 11W

COLOR TEMPERATURE: 4000K

COLOR RENDERING INDEX (CRI): 83

WARRANTY: 5 Years



PRODUCT FEATURES

- Plug & Play application: Compatible with most instant- and programmed-start electronic T8 ballasts
- Dimmable with compatible dimming ballasts (See Compatibility List)
- Bypass ballast application: Runs on 120-277 line voltage
- Can be used with step down transformer for 480V to 120V/277V
- Frosted lens eliminates pixelation

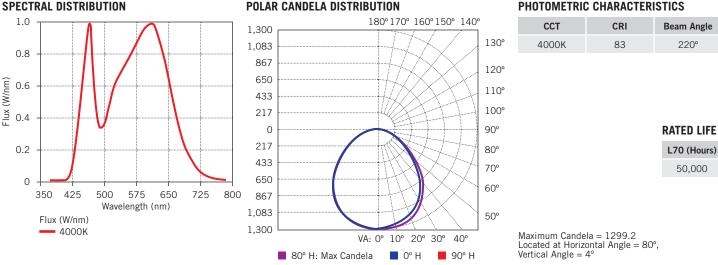
- · Environmentally friendly: No mercury used
- 50,000+ hour lifetime
- Instant startup
- Operating temperature: -20°C/-4°F to 45°C/113°F
- · Suitable for dry and damp indoor locations
- UL Listed

OPERATING SPECIFICATIONS

Catalog Number	ССТ	Bare Lamp Wattage	System Wattage*		Initial Lumens*		Efficiency*		Line-Voltage	
		0.88	0.78	0.88	0.78	0.88	0.78	0.88	Light Output	Efficacy
KT-LED11T8-36G-840-X3	4000K	11W	12.0W	14.0W	1500 lm	1700 lm	125 lm/W	121 lm/W	1650 lm	138 lm/W

* Nominal values. Actual values may vary depending on electronic ballast used.

SPECTRAL DISTRIBUTION







INSTALLATION INSTRUCTIONS

DIRECT REPLACEMENT (WITH EXISTING BALLAST)

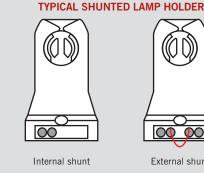
- 1. Turn power off.
- 2. Remove lens or diffuser, if applicable.
- 3. Remove existing fluorescent lamp(s) from the luminaire.
- 4. Install the LED replacement lamp(s), one lamp for each fluorescent lamp removed*.
- 5. Replace lens or diffuser back in place, if applicable.
- 6. Turn power back on.
- Warning: Check Keystone's Ballast Compatibility List before installation

BY-PASS REPLACEMENT (WITH BALLAST REMOVED)

- A. Disconnect power from fixture.
- B. Remove fluorescent lamps.
- C. Remove lens and wiring compartment, if applicable.
- D. Cut all wires connected to ballast (see Figure A: Typical Ballast Configurations).
- E. Identify what type of lamp holders are in fixture: non-shunted lamp holders or shunted lamp holders (see Figure B: Lamp Holder Types). Double-ended wiring installations of Keystone Combo Drive X3 tubes can be used with shunted G13 or non-shunted G13 lamp holders with instructions to externally shunt.

FIGURE B Lamp Holder Types



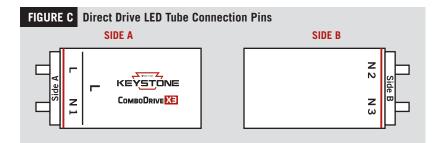


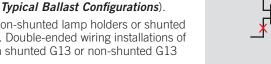
Caution: For single-ended wiring use *only* non-shunted lamp holders.

For Single-ended wiring, do not install product in a fixture with shunted lamp

holders (found in all fixtures using instant start ballasts). If the current lamp holders are shunted, remove them and replace them with non-shunted lamp holders. Make new connections directly to terminals as indicated above.

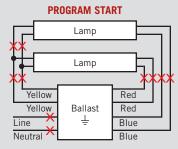
Keystone can provide any style replacement lamp holders. Call us at 800-464-2680.

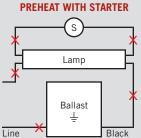


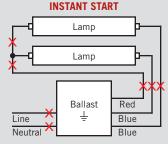


External shunt

FIGURE A Typical Ballast Configurations







CAUTION: Instant start ballasts have shunted lamp holders.





KT-LED11T8-36G-840-X3

T8 LED LAMPS

WIRING DIAGRAMS

DOUBLE-ENDED LINE VOLTAGE WIRING

Single lamp

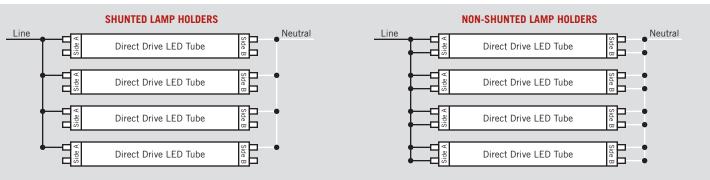
- 1. Follow steps A–C (see **By-Pass Replacement (with ballast removed)**, on page 2).
- 2. Cut all existing connections to ballast and remove ballast (see Figure A, on page 2, for typical ballast configurations).
- 3. Connect line voltage AC to both pins on Side A of the lamp (marked L and N1) on the endcap as shown below; on Side B, connect line neutral AC wire to pins marked N2 and N3 on the endcap as shown below (see Figure C, on page 2, for Direct Drive LED tube connection pins).



- 4. Complete all electrical connections with appropriate connectors/wire nuts as needed, per all local and national electrical codes. *Note:* there should not be any exposed wires from sockets left unconnected.
- 5. Replace wiring compartment cover.
- 6. Ensure that installed lamp is wired to line and neutral in the lamp holder and that lamp is facing proper direction for illumination.
- 7. Install lens or diffuser, if applicable.
- 8. Apply power to fixture and check for illumination.

Multiple lamps

- 1. Follow steps A-C (see By-Pass Replacement (with ballast removed), on page 2).
- 2. Cut all existing connections to ballast and remove ballast (see Figure A, on page 2, for typical ballast configurations).
- 3. Connect the terminals of the first lamp to the matching terminals of the second lamp with line and neutral wires. Continue daisy-chain connection for each additional lamp as shown below.



4. Complete all electrical connections with appropriate connectors/wire nuts as needed, per all local and national electrical codes. *Note:* there should not be any exposed wires from sockets left unconnected.

- 5. Replace wiring compartment cover.
- 6. Ensure that installed lamp is wired to line and neutral in the lamp holder and that lamp is facing proper direction for illumination.
- 7. Install lens or diffuser, if applicable.
- 8. Apply power to fixture and check for illumination.

(wiring diagrams continued on next page)





WIRING DIAGRAMS (continued)

SINGLE-ENDED LINE VOLTAGE WIRING*

Note: For single-ended wiring installations, power is applied *only* to endcap labeled Side A. **Do NOT** apply power to Side B.

Single lamp

- 1. Follow steps A-C (see By-Pass Replacement (with ballast removed), on page 2).
- 2. Cut all existing connections to ballast and remove ballast (see **Figure A**, on page 2, for typical ballast configurations).

Note: Single-ended wiring requires non-shunted lamp holders (see **Figure B**, on page 2, for lamp holder types).

3. On Side A of lamp holder, connect line voltage AC wire to pin marked L and connect line neutral AC wire to pin marked N1 on the endcap as shown below (see **Figure C**, on page 3, for Direct Drive LED tube connection pins).

Do not connect AC wires to Side B.

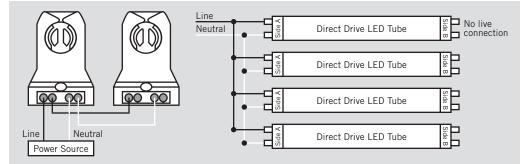


*Caution: Use only non-shunted lamp holders for single-ended wiring installations. Do not perform single-ended wiring installation of product in a fixture with shunted lamp holders (found in all fixtures using instant-start ballasts). If the existing lamp holders are shunted and single-ended wiring is desired, remove and replace them with non-shunted lamp holders (or remove the external shunt, if applicable). Make new connections directly to lamp holder terminals as shown on this page).

- 4. Complete all electrical connections with appropriate connectors/wire nuts as needed, per all local and national electrical codes. *Note:* there should not be any exposed wires from sockets left unconnected.
- 5. Replace wiring compartment cover.
- 6. Ensure that installed lamp is wired to line and neutral in the lamp holder and that lamp is facing proper direction for illumination.
- 7. Install lens or diffuser, if applicable.
- 8. Apply power to fixture and check for illumination.

Multiple lamps

- 1. Follow steps A-C (see By-Pass Replacement (with ballast removed), on page 2).
- 2. Cut all existing connections to ballast and remove ballast (see **Figure A**, on page 2, for typical ballast configurations). *Note:* Single-ended wiring requires non-shunted lamp holders.
- 3. Connect the terminals of the first lamp to the matching terminals of the second lamp with line and neutral wires. Continue daisy-chain connection for each additional lamp as shown below. *Note:* Do not connect any wires to Side B of lamp holder.

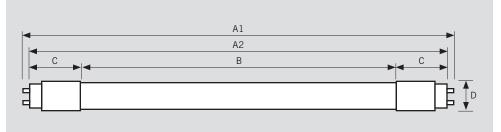


- 4. Complete all electrical connections with appropriate connectors/wire nuts as needed, per all local and national electrical codes. *Note:* there should not be any exposed wires from sockets left unconnected.
- 5. Replace wiring compartment cover.
- 6. Ensure that installed lamp is wired to line and neutral in the lamp holder and that lamp is facing proper direction for illumination.
- 7. Install lens or diffuser, if applicable.
- 8. Apply power to fixture and check for illumination.





PHYSICAL CHARACTERISTICS



LAMP DIMENSIONS

A1 (Overall Body Length)	35.78"		
A2 (Body Length)	35.22"		
B (Illuminated Length)	30.50"		
C (Cap)	2.36"		
D (Diameter)	1.14"		

NOMINAL LENGTH: 36"

BASE TYPE: G13 (Medium Bi-Pin)

ORDERING INFORMATION									
ORDER CODE	PACK QTY.	EASY CODE	UPC						
KT-LED11T8-36G-840-X3	25	PAV-60	843654134215						

CATALOG NUMBER BREAKDOWN

KT-LED11T8-36G-840-X3

- **1** Keystone Technologies
- 2 LED Lamp
- 3 Wattage
- 4 Lamp Type
- 5 Nominal Length (Inches)
- 6 Glass Construction
- 7 800 Series
- 8 Color Temperature
- 9 Single- or Double-Ended Line Voltage and Ballast Compatible