**KEYSTONE**
SINCE 1945
LIGHT MADE EASY®

**DIRECTDRIVE LED**
LINE VOLTAGE T8 TUBES

# KT-LED9T8-48G-8XX-D
## T8 LED LAMP

## DESCRIPTION
9W T8 LED | 3500–5000K | >83 CRI | High Efficiency

Low Optical Flicker Less Than 2% Up to 400 Hz

CLASSIFIED c UL us | DLC LISTED | c UL us | RoHS Compliant | TRUSTED WARRANTY N³B | 5YEAR WARRANTY

| | |
|---|---|
| **LAMP TYPE:** Linear | |
| **BULB TYPE:** T8 LED | |
| **BASE TYPE:** G13 (Medium Bi-Pin) | |
| **WATTAGE:** ~9W | |
| **COLOR TEMPERATURE:** 3500–5000K | |
| **COLOR RENDERING INDEX (CRI):** >83 | |
| **WARRANTY:** 5 Years | |
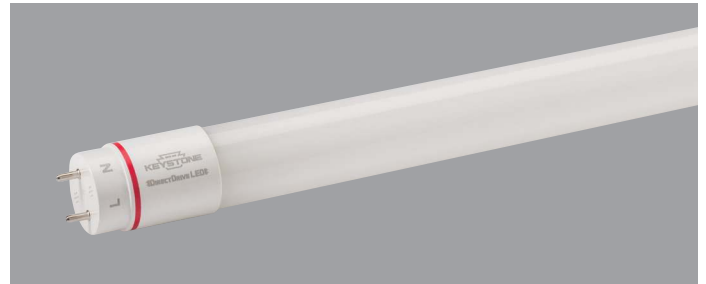
## PRODUCT FEATURES
- Replacement for conventional fluorescent lamp
- 50,000+ hour lifetime
- Approx. 50% more energy efficient that standard F32T8 lamps
- Environmentally Friendly: No mercury used
- Instant startup
- Frosted lens eliminates pixelation
- UL Verified low optical flicker
- UL Classified

- Operating temperature: -20ºC/-4ºF to 45ºC/113ºF
- Integral driver (Isolated) eliminates the need for external driver or ballast
- Approximately ~175 lumens per watt
- UL Flicker Free Design from date code 1905C
- Lamp is dimmable when used with an appropriate dimming accessory (purchased separately). Contact Keystone for more details to find out what is best for the intended application.

## ELECTRICAL AND PERFORMANCE SPECIFICATIONS

| Catalog Number | Input Voltage | Power Consumption | Color Temperature (CCT) | Luminous Flux | Efficacy | Beam Angle | Visible Light Area | Power Factor | Input Current | Rated Life |
|---|---|---|---|---|---|---|---|---|---|---|
| KT-LED9T8-48G-835-D | 120–277 Vac | ~9.2W | 3500K | 1600 lm | 178 lm/W | 240º | 325º | >0.9 | 0.12A @ 120V 0.05A @ 277V | L70 (Hours) 50,000 |
| KT-LED9T8-48G-840-D | | | 4000K | 1650 lm | 183 lm/W | | | | | |
| KT-LED9T8-48G-850-D | | | 5000K | 1650 lm | 183 lm/W | | | | | |

## PHOTOMETRIC SPECIFICATIONS

### SPECTRAL DISTRIBUTION



Flux (W/nm)
— 4000K
— 5000K
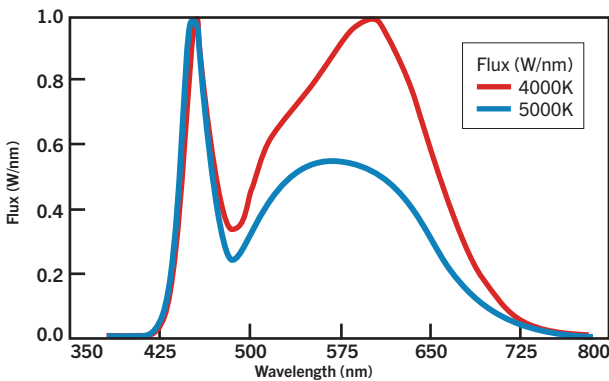
### POLAR CANDELA DISTRIBUTION
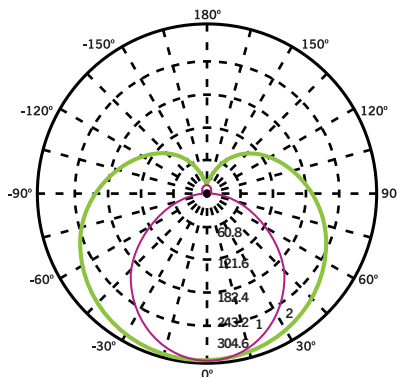


**Maximum Candela = 1248.55**
**Located at Horizontal Angle = 0,**
**Vertical Angle 0**

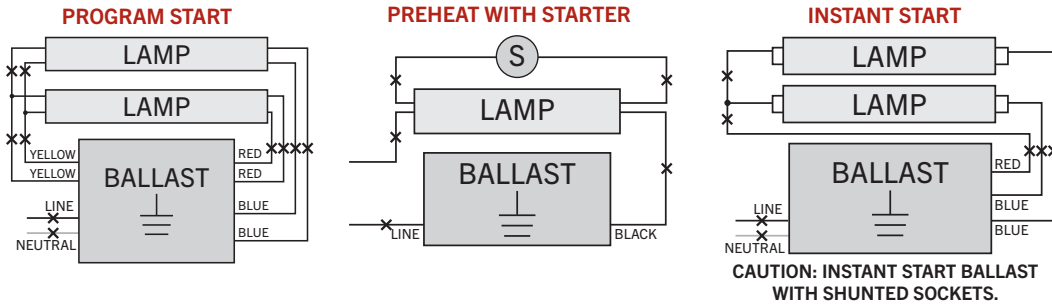1. **Violet** Vertical Plane through Horizontal Angles (90-270)

2. **Green** Vertical Plane through Horizontal Angles (0-180)

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### WIRING DIAGRAMS

1. Cut all existing connections to ballast as shown below and remove ballast.

**Typical Ballast Configurations:**

PROGRAM START



PREHEAT WITH STARTER



INSTANT START



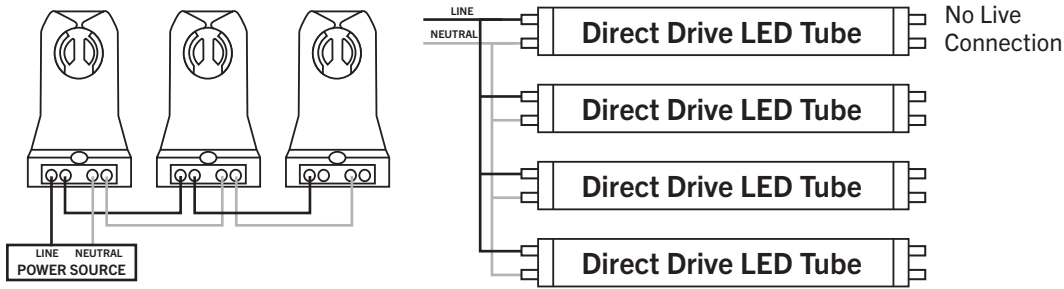CAUTION: INSTANT START BALLAST WITH SHUNTED SOCKETS.

**Typical Non-Shunted Lampholder**


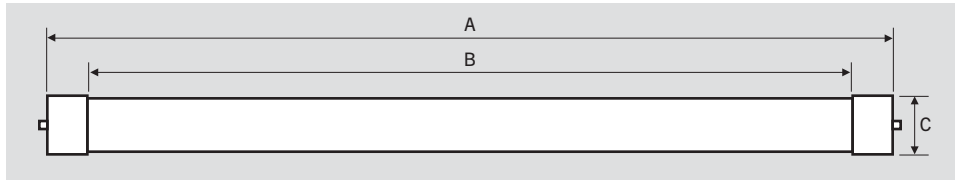
**Connect wires directly to these terminals**

**CAUTION: Use only non-shunted lampholders.** Do not install product in a fixture with shunted lampholders (found in all fixtures using instant start ballasts). If the current lampholders are shunted, remove them and replace them with non-shunted lampholders. Make new connections directly to terminals as indicated above.

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

2. Re-wire fixture as shown below.



LINE NEUTRAL
**POWER SOURCE**

Direct Drive LED Tube — No Live Connection
Direct Drive LED Tube
Direct Drive LED Tube
Direct Drive LED Tube

### PHYSICAL SPECIFICATIONS



### LAMP DIMENSIONS

| | |
|---|---|
| A (Body Length) | 47.15" |
| B (Illuminated Length) | 47.15" |
| C (Diameter) | 1.10" |

**NOMINAL LENGTH:** 48"
**BASE TYPE:** G13 (Medium Bi-Pin)

### ORDERING INFORMATION

| ORDER CODE | PACK QTY. | EASY CODE | UPC |
|---|---|---|---|
| KT-LED9T8-48G-835-D-CP | 25 | SRO-04 | 843654122625 |
| KT-LED9T8-48G-840-D-CP | 25 | QZI-38 | 843654122632 |
| KT-LED9T8-48G-850-D-CP | 25 | TYU-75 | 843654122649 |

### CATALOG NUMBER BREAKDOWN

# KT-LED9T8-48G-8XX-D-CP
1 · 2 · 3 · 4 · 5 · 6 · 7 · 8 · 9 · 10

1 Keystone Technologies
2 LED Lamp
3 Wattage
4 Lamp Type
5 Nominal Length (Inches)
6 Glass
7 80 CRI
8 Color Temperature
9 DirectDrive Series
10 Packaging Style