**KEYSTONE**
SINCE 1945
LIGHT MADE EASY®

# DIRECT DRIVE DX2
## SINGLE- OR DOUBLE-ENDED LINE VOLTAGE LED TUBES

# KT-LED15T8-48GC-8XX-DX2
## T8 LED LAMP

classified c UL us | DLC LISTED | UL | RoHS Compliant | 5 YEAR WARRANTY

## DESCRIPTION

15W T8 LED | 3000−6500K | >83 CRI | High Efficiency | Single or Double-ended Wiring

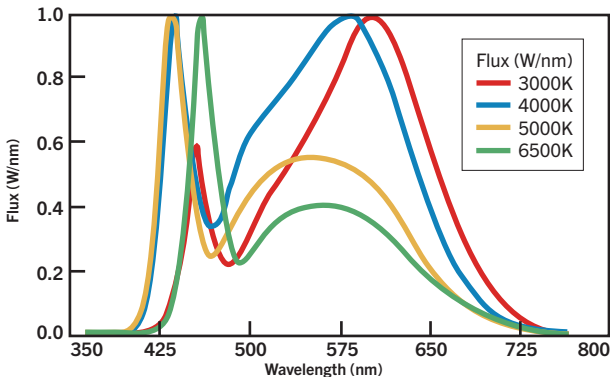| | |
|---|---|
| **LAMP TYPE:** Linear | |
| **BULB TYPE:** T8 LED | |
| **BASE TYPE:** G13 (Medium Bi-Pin) | |
| **WATTAGE:** 15W | |
| **COLOR TEMPERATURE:** 3000K | |
| **COLOR RENDERING INDEX (CRI):** >83 | |
| **WARRANTY:** 5 Years | |

## PRODUCT FEATURES

- Replacement for Conventional Fluorescent Lamp
- Single or Double-Ended Wiring
- 50,000+ Hour Lifetime
- Approximately 40% More Energy Efficient that Standard F32T8 Lamps
- Environmentally Friendly: No Mercury Used
- Instant Startup
- Frosted Lens Eliminates Pixelation
- UL Classified
- Operating Temperature: -20ºC/-4ºF to 45ºC/113ºF

- Integral Driver (Isolated), Eliminates the Need for External Driver or Ballast
- 110+ Lumens per Watt
- Improved Lamp Durability with Shatterproof Coated Glass, designed to pass drop tests of 6' on hard surface
- ETL Sanitation Listed NSF/ANSI Standard 2 - Food Equipment
- 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.
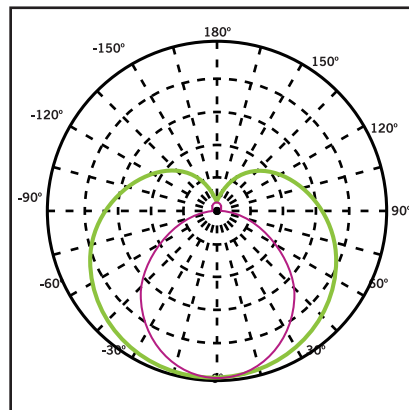
## ELECTRICAL AND PERFORMANCE SPECIFICATIONS

| Catalog Number | Input Voltage | Power Consumption | Color Temperature (CCT) | Luminous Flux | Efficacy | Beam Angle | Visible Light Area | Power Factor | Input Current | Rated Life |
|---|---|---|---|---|---|---|---|---|---|---|
| KT-LED15T8-48GC-830-DX2 | 120−277 Vac | 15W | 3000K | 1750 lm | 114 lm/W | 240º | 325º | >0.9 | 0.16A @ 120V 0.07A @ 277V | L70 (Hours) 50,000 |
| KT-LED15T8-48GC-830-DX2 | | | 3500K | 1800 lm | 117 lm/W | | | | | |
| KT-LED15T8-48GC-830-DX2 | | | 4000K | 1850 lm | 121 lm/W | | | | | |
| KT-LED15T8-48GC-830-DX2 | | | 5000K | 1930 lm | 127 lm/W | | | | | |
| KT-LED15T8-48GC-830-DX2 | | | 6500K | 1900lm | 127 lm/W | | | | | |

## PHOTOMETRIC SPECIFICATIONS

### SPECTRAL DISTRIBUTION



Flux (W/nm)
- 3000K
- 4000K
- 5000K
- 6500K

### 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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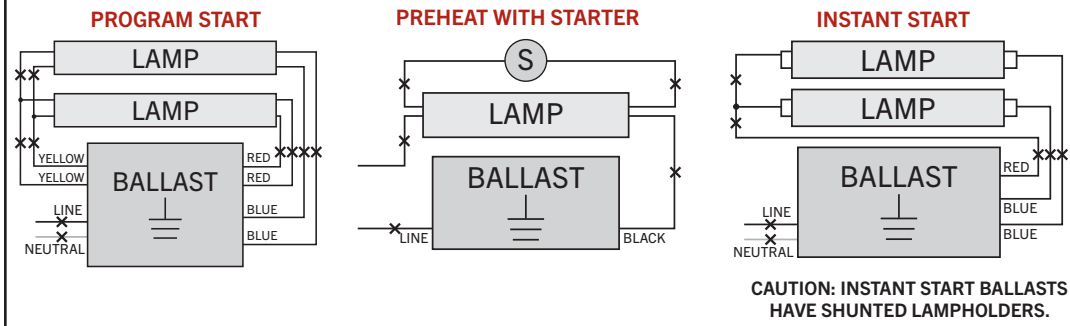SINGLE- OR DOUBLE-ENDED LINE VOLTAGE LED TUBES

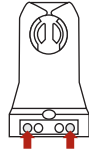## KT-LED15T8-48GC-8XX-DX2
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## SINGLE-ENDED WIRING DIAGRAM

1. Cut all existing connections to ballast as shown below and remove ballast. See Figure A for typical ballast configurations. **Note: Single-ended wiring requires non-shunted lampholders.**

**Figure A** — **Typical Ballast Configurations:**



PROGRAM START

PREHEAT WITH STARTER

INSTANT START

LAMP / LAMP / BALLAST / YELLOW / YELLOW / LINE / NEUTRAL / RED / RED / BLUE / BLUE

S / LAMP / BALLAST / LINE / BLACK

LAMP / LAMP / BALLAST / LINE / NEUTRAL / RED / BLUE / BLUE

**CAUTION: INSTANT START BALLASTS HAVE SHUNTED LAMPHOLDERS.**
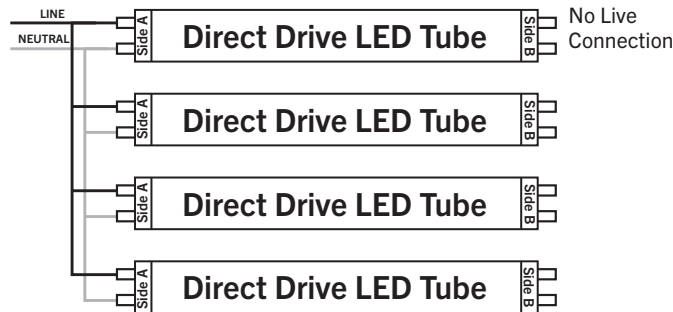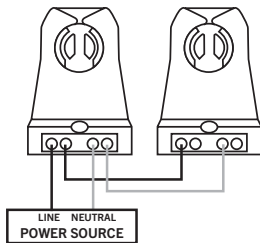
**Typical Non-Shunted Lampholder**



**Connect wires directly to these terminals**

**CAUTION: For Single-ended wiring use only non-shunted lampholders.**

For Single-ended wiring, 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**

LINE / NEUTRAL

Side A — **Direct Drive LED Tube** — Side B — No Live Connection

Side A — **Direct Drive LED Tube** — Side B

Side A — **Direct Drive LED Tube** — Side B

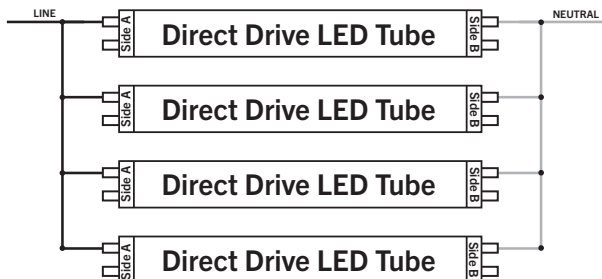Side A — **Direct Drive LED Tube** — Side B
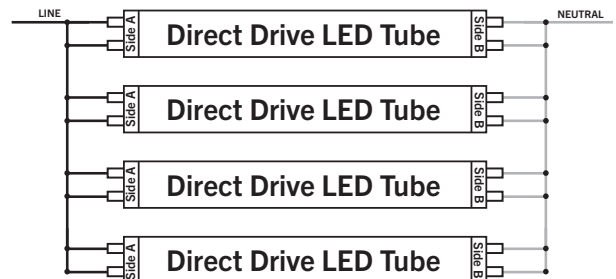
## DOUBLE-ENDED WIRING DIAGRAM

1. Cut all existing connections to ballast as shown below and remove ballast. See Figure A above for typical ballast configurations.

2. Re-wire fixture as shown below. For Double-ended wiring, use either shunted or nonshunted lampholders.
   **Note: There should not be any exposed wires at the end of installation.**

**Shunted Lampholders**



LINE / NEUTRAL

Side A — **Direct Drive LED Tube** — Side B

Side A — **Direct Drive LED Tube** — Side B

Side A — **Direct Drive LED Tube** — Side B

Side A — **Direct Drive LED Tube** — Side B

**Nonshunted Lampholders**



LINE / NEUTRAL

Side A — **Direct Drive LED Tube** — Side B

Side A — **Direct Drive LED Tube** — Side B

Side A — **Direct Drive LED Tube** — Side B

Side A — **Direct Drive LED Tube** — Side B

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### T8 LED LAMP

## PHYSICAL SPECIFICATIONS

**LAMP DIMENSIONS**

| | |
|---|---|
| **A (Illuminated Length)** | 42.63" |
| **B (Body 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-LED15T8-48GC-830-DX2-CP | 25 | PFM-72 | 89094901631 |
| KT-LED15T8-48GC-835-DX2-CP | 25 | VKM-69 | 89094901632 |
| KT-LED15T8-48GC-840-DX2-CP | 25 | NNU-76 | 89094901633 |
| KT-LED15T8-48GC-850-DX2-CP | 25 | FJG-23 | 89094901634 |
| KT-LED15T8-48GC-865-DX2-CP | 25 | HAH-66 | 89094901635 |

## CATALOG NUMBER BREAKDOWN

# KT-LED15T8-48GC-8XX-DX2-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 Construction**
7  **80 CRI**
8  **Color Temperature**
9  **Single- or Double-Ended Wiring**
10 **Packaging Style**