KEYSTONE | **DIRECTDRIVE DX2** | **COLOR SELECT**
LIGHT MADE EASY | SINGLE- OR DOUBLE-ENDED LINE VOLTAGE LED TUBES

KT-LED10.5T8-48G-8CSJ-DX2
T8 LED LAMP

DESCRIPTION

10.5W T8 LED Lamp | 3000/3500/4000/5000/6500K | > 80 CRI | High-Efficiency | Single- or Double-ended Line Voltage Wiring

LAMP TYPE: Linear	
BULB TYPE: T8 LED	
BASE TYPE: G13 (Medium Bi-Pin)	
WATTAGE: 10.5W	
COLOR TEMPERATURE: 3000/3500/4000/5000/6500K	
COLOR RENDERING INDEX (CRI): > 80	
WARRANTY: 10 Years	

CLASSIFIED c(UL)us · DLC LISTED · UL · RoHS Compliant · TRUSTED WARRANTY NLB · **10 YEAR** LIMITED WARRANTY
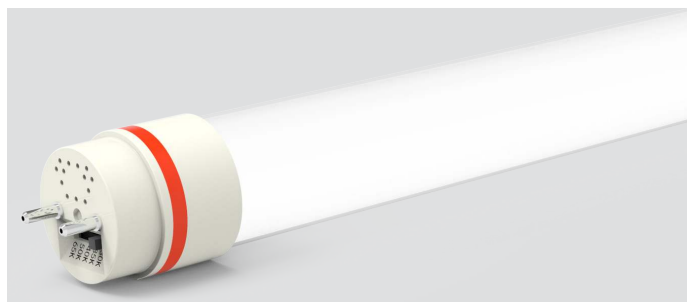
PRODUCT FEATURES

- Replacement for conventional fluorescent lamp
- Single- or double-ended line voltage wiring
- Keystone Color Select technology (3000/3500/4000/5000/6500K)
- Instant startup
- Frosted glass lens eliminates pixelation
- Approximately 60% more energy-efficient than standard F32T8 lamps
- Environmentally friendly: No mercury used
- 150+ Lumens per Watt
- Operating temperature: −20ºC/−4ºF to 45ºC/113ºF
- Storage temperature: −30ºC/−22ºF to 60ºC/140ºF
- Operating humidity: 10–80%
- Integral driver (isolated) eliminates the need for external driver or ballast

- Not compatible with Keystone AC emergency drivers: KT-EMRG-LED-5-500-AC, KT-EMRG-LED-5-500-AC/DF, KT-EMRG-LED-12-1200-AC, or KT-EMRG-LED-12-1200-AC /DF
- Not rated for use in Vapor Tight style fixtures
- Meets FCC Part 15, Class B
- 50,000+ hour lifetime
- DLC Listed
- UL Classified
- 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.

COLOR SELECT (CCT) ADJUSTMENT

- This fixture is equipped with field-adjustable Keystone Color Select technology.
- Adjustable CCT (3000/3500/4000/5000/6500K).
- Adjust dip switch to desired setting (preset to 4000K CCT).

ELECTRICAL CHARACTERISTICS

Input Voltage	Power Consumption	CCT*	Lumen Output	Efficacy	CRI	Beam Angle	Visible Light Area	Power Factor	THD	Input Current	Lifetime
120–277 Vac 60Hz	10.5W	3,000K	1,575	150 lm/W	>80	240º	325º	>0.9	>20%	90mA @120V 43mA @277V	50,000 hrs
		3,500K	1,600	152 lm/W							
		4,000K	1,650	157 lm/W							
		5,000K	1,650	157 lm/W							
		6,500K	1,600	152 lm/W							

* Preset to 4000K CCT; Color Uniformity: CCT (Correlated Color Temperature) range as per guidelines outlined in ANSI C78.377-2017

KEYSTONE — SINCE 1945 — LIGHT MADE EASY

DIRECTDRIVE DX2
SINGLE- OR DOUBLE-ENDED LINE VOLTAGE LED TUBES

COLOR SELECT

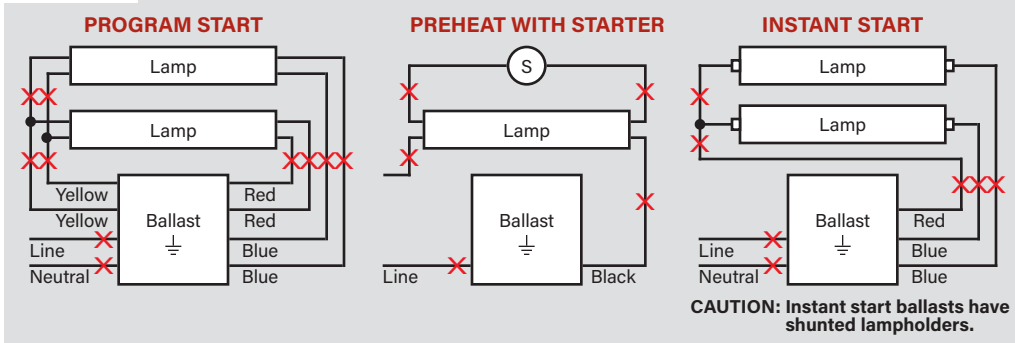# KT-LED10.5T8-48G-8CSJ-DX2
T8 LED LAMP

WIRING DIAGRAMS

WARNING: NOT COMPATIBLE WITH KEYSTONE AC EMERGENCY BACKUPS
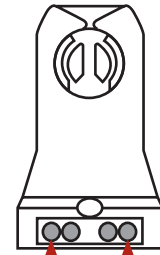
SINGLE-ENDED WIRING DIAGRAM

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.**

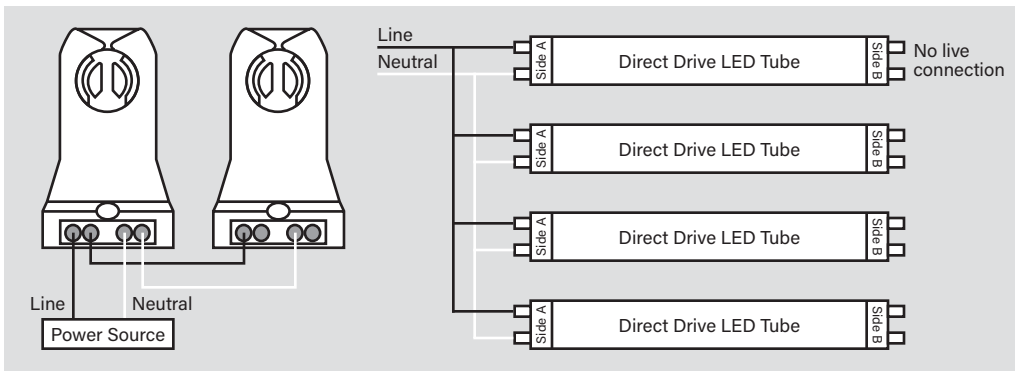FIGURE A **Typical Ballast Wiring Configurations**

PROGRAM START

Lamp
Lamp
Yellow | Red
Yellow | Red
Line | Blue
Neutral | Blue
Ballast

PREHEAT WITH STARTER

S
Lamp
Ballast
Line | Black

INSTANT START

Lamp
Lamp
Line | Red
Neutral | Blue
Ballast | Blue

CAUTION: Instant start ballasts have shunted lampholders.

TYPICAL NON-SHUNTED LAMPHOLDER

Connect wires directly to these terminals

2. Rewire 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

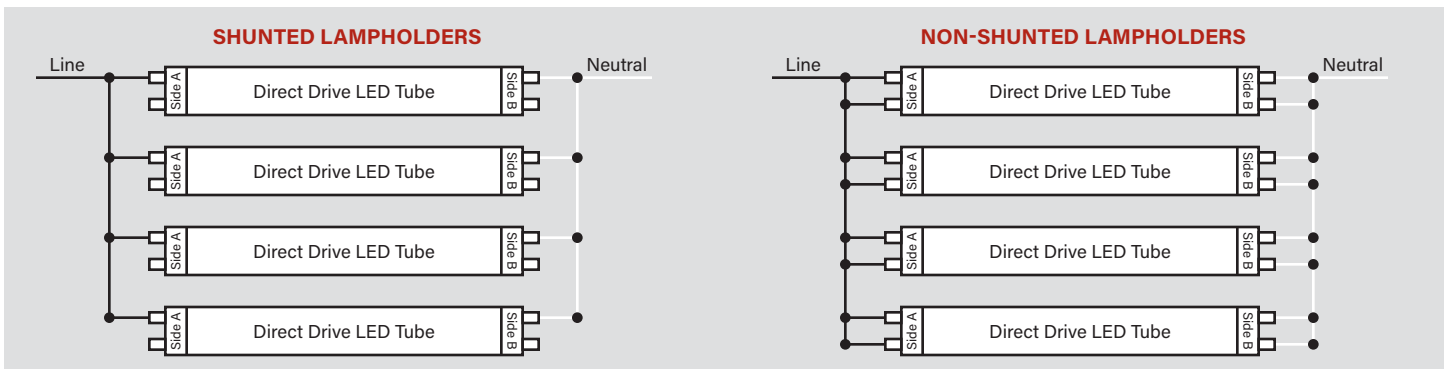**CAUTION: FOR SINGLE-ENDED WIRING USE *ONLY* NON-SHUNTED LAMPHOLDERS.**

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.

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.

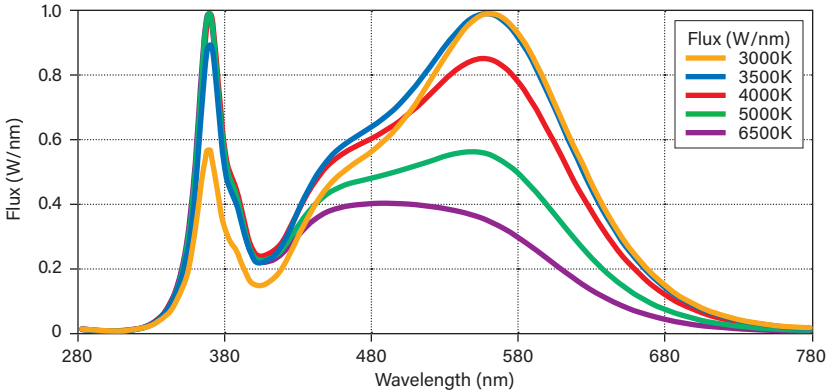**NOTE: There should not be any exposed wires at the end of installation.**

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

NON-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

DIRECTDRIVE DX2
SINGLE- OR DOUBLE-ENDED LINE VOLTAGE LED TUBES

COLOR SELECT

KT-LED10.5T8-48G-8CSJ-DX2
T8 LED LAMP

PHOTOMETRIC CHARACTERISTICS

SPECTRAL DISTRIBUTION

Flux (W/nm)
- 3000K
- 3500K
- 4000K
- 5000K
- 6500K

X-axis: Wavelength (nm)
Y-axis: Flux (W/nm)

PHYSICAL CHARACTERISTICS
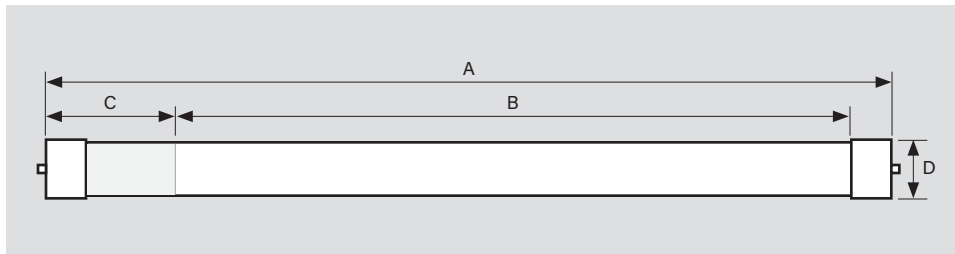
LAMP DIMENSIONS

A (Body Length)	47.20"
B (Illuminated Length)	44.00"
C (End Cap/Sticker Area)	2.25"
D (Diameter)	1.10"

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

ORDERING INFORMATION

ORDER CODE	CARTON QUANTITY	UPC	EASY CODE	DLC PRODUCT ID
KT-LED10.5T8-48G-8CSJ-DX2	25 pcs	843654140827	DSG-50	S-64IUCD

CATALOG NUMBER BREAKDOWN

KT-LED10.5T8-48G-8CSJ-DX2
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 **CRI**
8 **Color Select**
9 **Color Select Designation**
10 **Single- or Double-Ended Line Voltage Wiring**

9 **Color Select Designation**

J	3000/3500/4000/5000/6500K