KEYSTONE
SINCE 1945
LIGHT MADE EASY®

DIRECTDRIVE D2
DOUBLE-ENDED LINE VOLTAGE LED TUBES

KT-LED10.5T8-48G-835-D2
T8 LED LAMP

DESCRIPTION

10.5W T8 LED **I** 3500K **I** >80 CRI **I** High-Efficiency

DLC | CLASSIFIED c(UL)us | UL | RoHS Compliant | 5YEAR WARRANTY

LAMP TYPE: Linear	
BULB TYPE: T8	
BASE TYPE: G13 (Medium Bi-Pin)	
WATTAGE: 10.5W	
COLOR TEMPERATURE: 3500K	
COLOR RENDERING INDEX (CRI): >80	
WARRANTY: 5 Years	

PRODUCT FEATURES

- Replacement for conventional fluorescent lamp
- 50,000+ hour lifetime
- Approximately 40% more energy efficient than standard F32T8 lamps
- Environmentally friendly: No mercury used
- Instant startup
- Frosted lens eliminates pixelation

- Integral driver (isolated) eliminates the need for external driver or ballast
- UL classified
- Not compatible with Keystone AC Emergency Drivers: KT-EMRG-LED-5-500-AC, KT-EMRG-LED-5-500-AC/DF, or KT-EMRG-LED-12-1200-AC

PERFORMANCE SPECIFICATIONS

Catalog Number	Input Voltage	Input Current	Wattage	Color Temperature	Lumen Output	CRI	Power Factor	Efficacy
KT-LED10.5T8-48G-835-D2	120–277V	90mA @ 120V; 42mA @ 277V	10.5W	3500K	1650 lm	>80	>0.9	157 lm/W

PHOTOMETRIC CHARACTERISTICS

Color Temperature (CCT)	3500K
Luminous Flux	1650 lm
Color Rendering Index (CRI)	>80
Efficacy	157 lm/W
Beam Angle	240º
Visible Light Area	325º

MECHANICAL CHARACTERISTICS

Rated Life (L70)	50,000 hours
Wiring	Double-ended

SPECTRAL DISTRIBUTION

Flux (W/nm) — 3500K
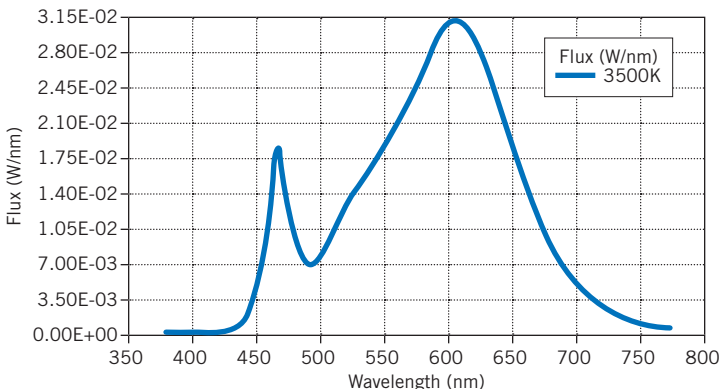
POLAR CANDELA DISTRIBUTION

Unit = cd
- C 0–180: 116.2
- C 30–210: 140.4
- C 60–240: 225.9
- C 90–270: 251.1

Average Beam Angle (50%): 183.4º

DIRECTDRIVE D2
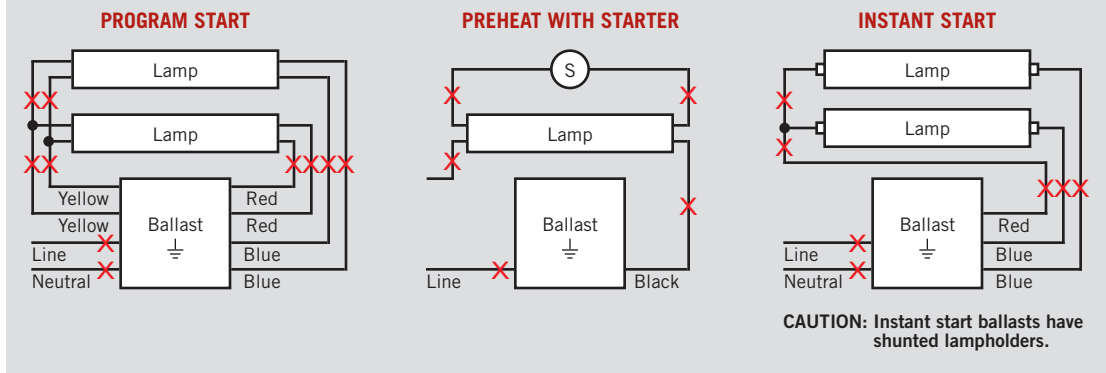DOUBLE-ENDED LINE VOLTAGE LED TUBES
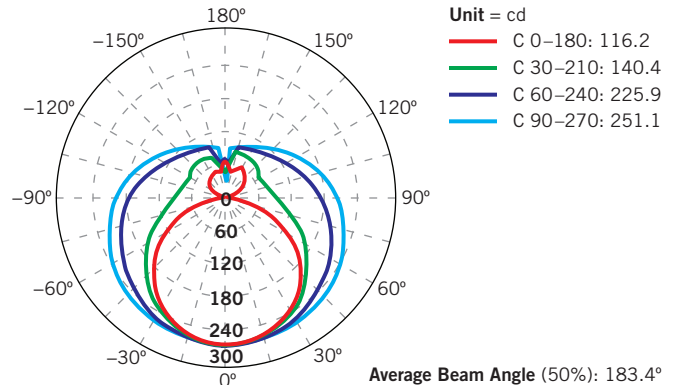
KT-LED10.5T8-48G-835-D2
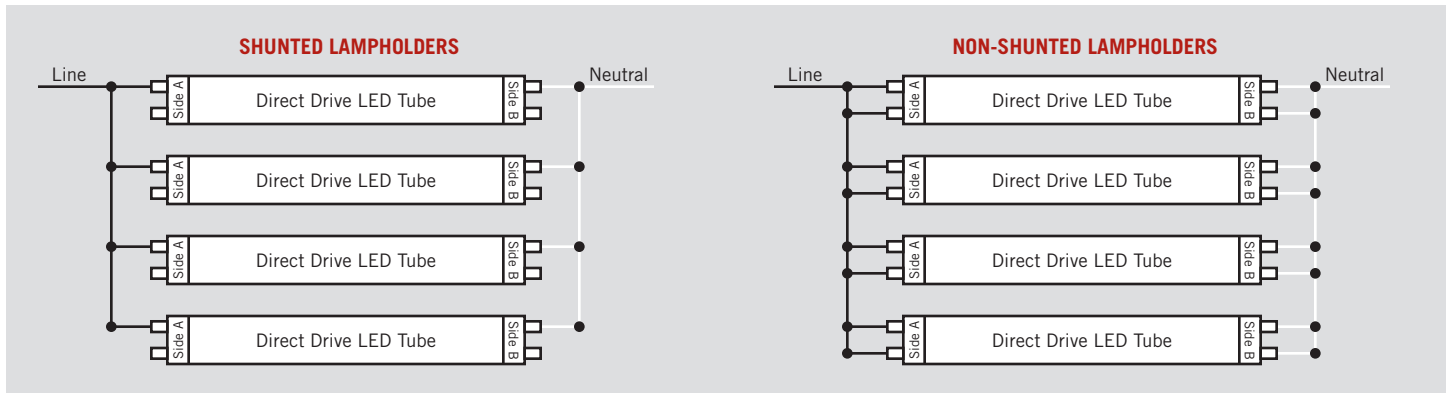### T8 LED LAMP

WIRING DIAGRAMS

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

FIGURE A **TYPICAL BALLAST CONFIGURATIONS**

PROGRAM START

Lamp

Lamp

Yellow		Red
Yellow	Ballast ⏚	Red
Line		Blue
Neutral		Blue

PREHEAT WITH STARTER

S

Lamp

Ballast ⏚

Line   Black

INSTANT START

Lamp

Lamp

Line	Ballast ⏚	Red
Neutral		Blue
		Blue

CAUTION: Instant start ballasts have shunted lampholders.
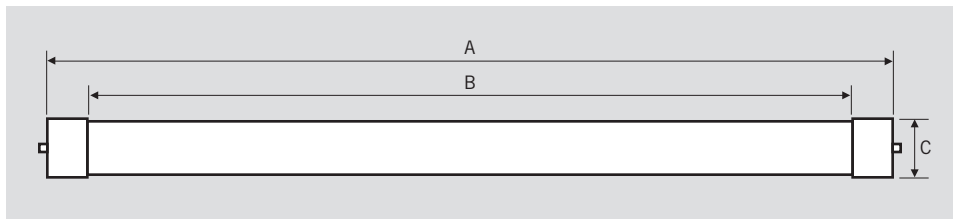
2. Re-wire fixture as shown below. For double-ended wiring, use either shunted or nonshunted lampholders.

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

SHUNTED LAMPHOLDERS

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

NON-SHUNTED LAMPHOLDERS

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

WARNING Not Compatible with Keystone AC Emergency Backups

PHYSICAL CHARACTERISTICS

LAMP DIMENSIONS

A (Body Length)	47.15"
B (Illuminated Length)	42.63"
C (Diameter)	1.10"

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

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ORDERING INFORMATION

ORDER CODE	CARTON QUANTITY	UPC	EASY CODE
KT-LED10.5T8-48G-835-D2	25	843654131016	LLA-52

CATALOG NUMBER BREAKDOWN

KT-LED10.5T8-48G-835-D2

1   2   3   4   5   6   7   8   9

1 **Keystone Technologies**
2 **LED Lamp**
3 **Wattage**
4 **Lamp Type**
5 **Nominal Length (Inches)**
6 **Glass Construction**
7 **CRI**
8 **Color Temperature**
9 **Double-Ended Wiring**