KEYSTONE
SINCE 1945
LIGHT MADE EASY

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

KT-LED25T5HO-48GC-8XX-DX2 /G2
T5 LED LAMP

DESCRIPTION

25W T5 LED | 3500/4000/5000/6500K | >80 CRI | High-Output |
Single- or Double-Ended Wiring

Classified c(UL)us | DLC LISTED | NSF | (UL)® | RoHS Compliant | TRUSTED N13 WARRANTY | 5YEAR WARRANTY

LAMP TYPE: Linear	
BULB TYPE: T5 LED	
BASE TYPE: G5 (Miniature Bi-Pin)	
WATTAGE: 25W	
COLOR TEMPERATURE: 3500/4000/5000/6500K	
COLOR RENDERING INDEX (CRI): >80	
WARRANTY: 5 Years	

PRODUCT FEATURES

- Replacement for conventional fluorescent lamp
- Single- or Double-Ended Wiring
- Instant startup
- Direct replacement for F54T5/HO fluorescent lamp
- Frosted lens eliminates pixelation
- Improved lamp durability with shatterproof coated glass, designed to pass drop tests of 6' on hard surface
- Environmentally friendly: No mercury used
- Operating Temperature: –20ºC/–4ºF to 45ºC/113ºF
- Storage Temperature: -40ºC/-40ºF to 70ºC/158ºF
- Operating Humidity: 35-80%
- Integral driver (isolated) eliminates the need for external driver or ballast

- 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
- 50,000+ hour lifetime
- UL Classified
- NSF Listed: NSF/ANSI Standard 2: Food equipment, splash zone (component level—not for direct food zone without additional fixture considerations)
- Meets FCC part 15 Class B standards
- 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.
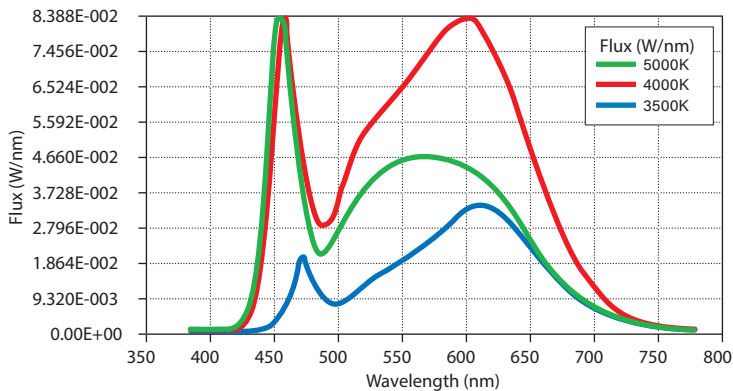
PERFORMANCE SPECIFICATIONS

Catalog Number	Input Voltage	Power Consumption	Color Temperature (CCT)	Luminous Flux	Efficacy	Beam Angle	Visible Light Area	Power Factor	Input Current	Rated Lifetime
KT-LED25T5HO-48GC-835-DX2 /G2			3500K	3300	132 lm/W					
KT-LED25T5HO-48GC-840-DX2 /G2			4000K	3500	140 lm/W					
KT-LED25T5HO-48GC-850-DX2 /G2	120-277Vac	25W	5000K	3500	140 lm/W	170°	280°	>0.9	213mA @ 120V 92mA @ 277V	50,000 Hours
KT-LED25T5HO-48GC-865-DX2 /G2			6500K	3500	140 lm/W					

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PHOTOMETRIC SPECIFICATIONS

SPECTRAL DISTRIBUTION

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

PHOTOMETRIC CHARACTERISTICS

Average Beam Angle (50%): 97.9°

Unit: cd	
C0/180:	111.0
C30/210:	99.6
C60/240:	91.7
C90/270:	89.4
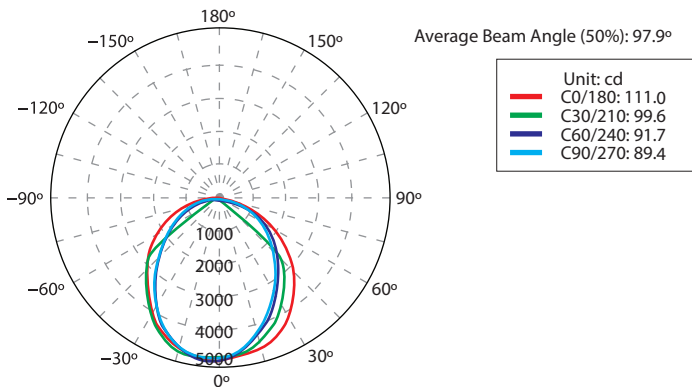
PHYSICAL SPECIFICATIONS
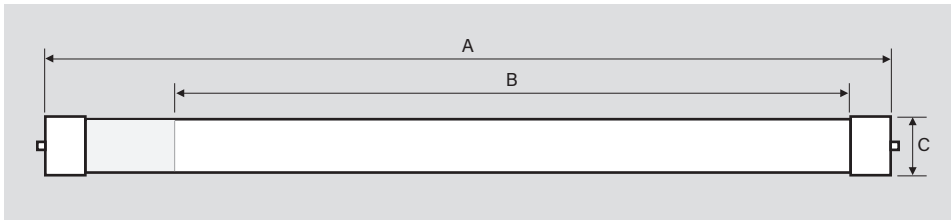
LAMP DIMENSIONS

A (Body Length)	45.24"
B (Illuminated Length)	40.56"
C (Diameter)*	0.77"

NOMINAL LENGTH: 48"

BASE TYPE: G5 (Miniature Bi-Pin)

Though nominally referred to as a T5, this lamp has a T6 diameter.

Keystone Technologies ▪ Philadelphia, PA ▪ Phone (800) 464-2680 ▪ **www.keystonetech.com**

Specifications subject to change. Last revised on 11.17.23

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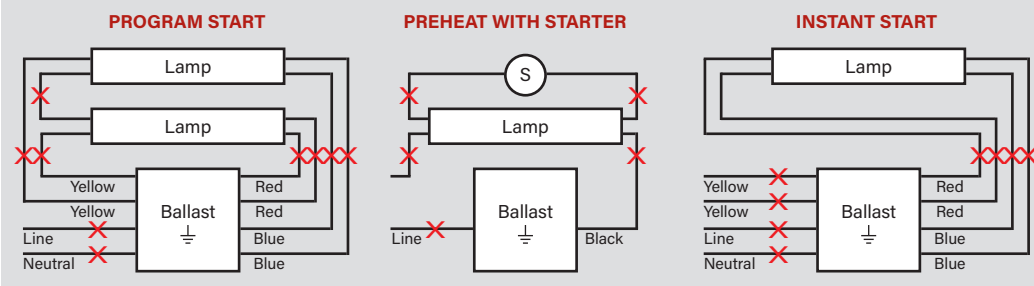SINGLE- OR DOUBLE-ENDED LINE VOLTAGE LED TUBES
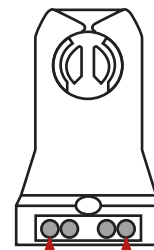
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SINGLE-ENDED WIRING DIAGRAM

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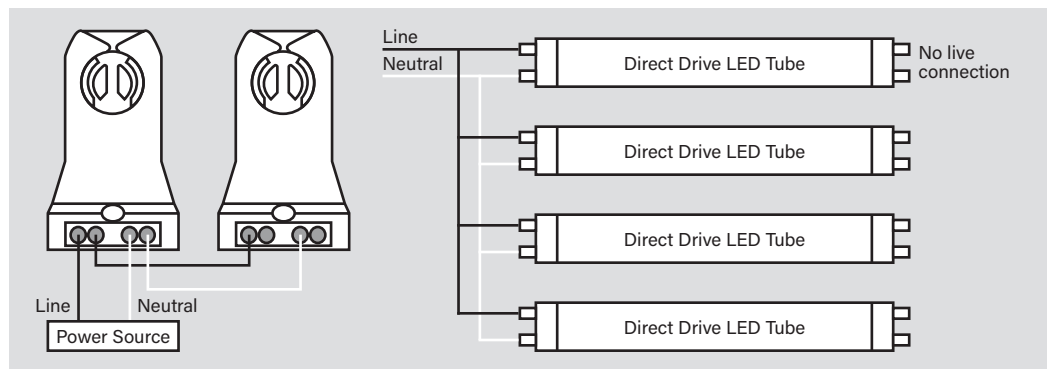
FIGURE A   TYPICAL BALLAST CONFIGURATIONS

PROGRAM START

Lamp
Lamp
Yellow / Yellow — Ballast — Red / Red
Line / Neutral — Blue / Blue

PREHEAT WITH STARTER

S
Lamp
Line — Ballast — Black

INSTANT START

Lamp
Yellow / Yellow — Ballast — Red / Red
Line / Neutral — Blue / Blue

TYPICAL NON-SHUNTED LAMPHOLDER

Connect wires directly to these terminals

2. Rewire fixture as shown below.

Line
Neutral
Line — Neutral
Power Source

Line
Neutral — Direct Drive LED Tube — No live connection
Direct Drive LED Tube
Direct Drive LED Tube
Direct Drive LED Tube

CAUTION: FOR SINGLE-ENDED WIRING USE *ONLY* NON-SHUNTED LAMPHOLDERS.
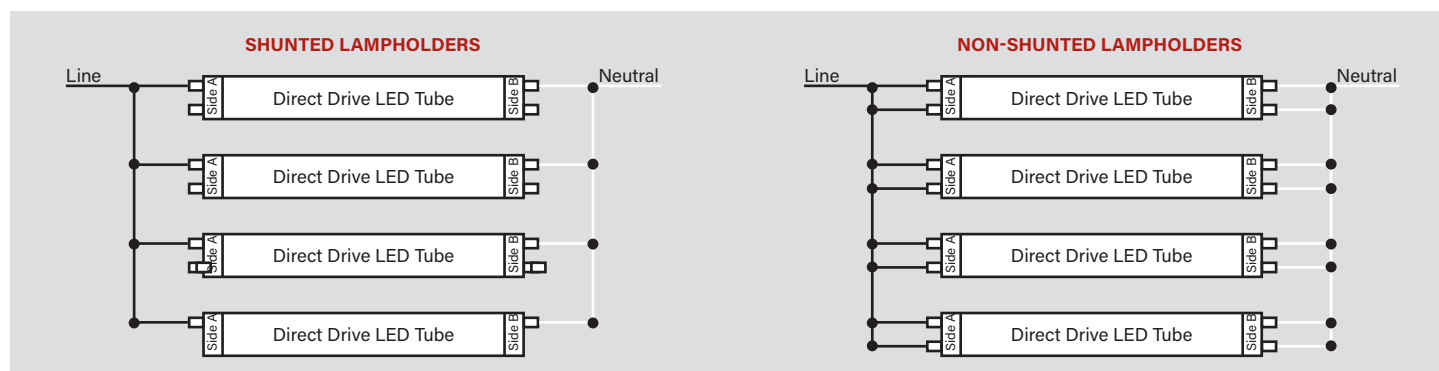
For Single-ended wiring, do not install product in a fixture with shunted lampholders (found in all fixtures using instant start ballasts). If the current lampholders are shunted, remove them and replace them with non-shunted lampholders. Make new connections directly to terminals as indicated above. 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 ans 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 — 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

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ORDERING INFORMATION

ORDER CODE	PACK QTY.	UPC	EASY CODE	DLC PRODUCT ID
KT-LED25T5HO-48GC-835-DX2 /G2	25 pcs	843654158303	PQL-98	S-QMIAG6
KT-LED25T5HO-48GC-840-DX2 /G2	25 pcs	843654158310	YUB-62	S-QOE359
KT-LED25T5HO-48GC-850-DX2 /G2	25 pcs	843654158327	EQQ-25	S-21R9UN
KT-LED25T5HO-48GC-865-DX2 /G2	25 pcs	843654158334	VPO-82	S-56ASEJ

CATALOG NUMBER BREAKDOWN

KT-LED25T5HO-48GC-8XX-DX2 /G2
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 **Shatter-Proof Coated Glass**
7 **80 CRI**
8 **Color Temperature**
9 **Single- or Double-Ended Wiring**
10 **Second Generation**