KEYSTONE
SINCE 1945
LIGHT MADE EASY®

DIRECTDRIVE LED
LINE VOLTAGE T8 TUBES

KT-LED10.5T8-48GC-835-D-VDIM
T8 LED LAMP

DESCRIPTION

10.5W T8 LED **I** 3500K **I** >83 CRI **I**
High-Efficiency **I** Single-Ended Wiring

LAMP TYPE:	Linear
BULB TYPE:	T8 LED
BASE TYPE:	G13 (Medium Bi-Pin)
WATTAGE:	10.5W
COLOR TEMPERATURE:	3500K
COLOR RENDERING INDEX (CRI):	>83
WARRANTY:	5 Years

PRODUCT FEATURES

- Replacement for conventional F32T8 fluorescent lamp
- Single-ended wiring
- Instant startup
- Frosted lens eliminates pixelation
- Improved lamp durability with shatterproof coated glass
- Integral driver (isolated) eliminates the need for external driver or ballast
- Approximately 40% more energy efficient than standard F32T8 lamps
- ETL Sanitation Listed NSF/ANSI Standard 2— Food equipment
- 0–10V dimming to below 10%
- Environmentally friendly: No mercury used
- Operating temperature: –20ºC/–4ºF to 45ºC/113ºF
- 50,000+ hour lifetime
- UL Classified
- DLC Listing; Meets DLC 5.1 requirements

PERFORMANCE SPECIFICATIONS

Catalog Number	Input Voltage	Input Current	Wattage	Color Temperature	Lumen Output	Efficacy	CRI	Power Factor
KT-LED10.5T8-48GC-835-D-VDIM	120–277V	0.12A @ 120V; 0.05A @ 277V	10.5W	3500K	1650	157 lm/W	>83	>0.9

OPERATING SPECIFICATIONS

PHOTOMETRIC CHARACTERISTICS

Beam Angle	132.3º	Visible Light Area	325º

MECHANICAL CHARACTERISTICS

Length	48"	Wiring	Single-ended	Rated Life (L70)	50,000 hours

SPECTRAL DISTRIBUTION

Flux (W/nm) 3500K
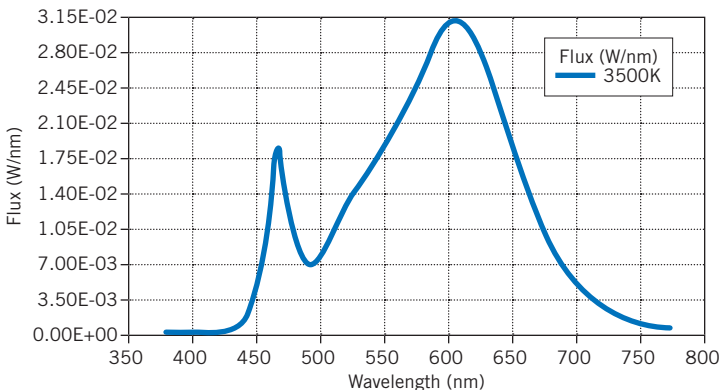
POLAR CANDELA DISTRIBUTION

Unit = cd
C 0–180: 108.9
C 30–210: 118.8
C 60–240: 144.4
C 90–270: 157.2
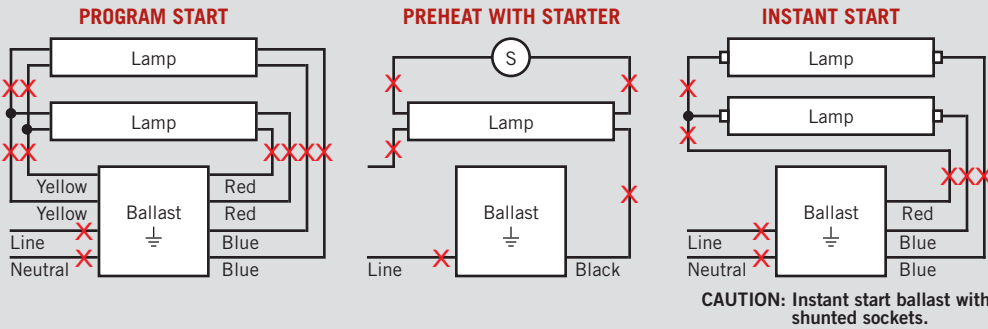
Average Beam Angle (50%): 132.3º
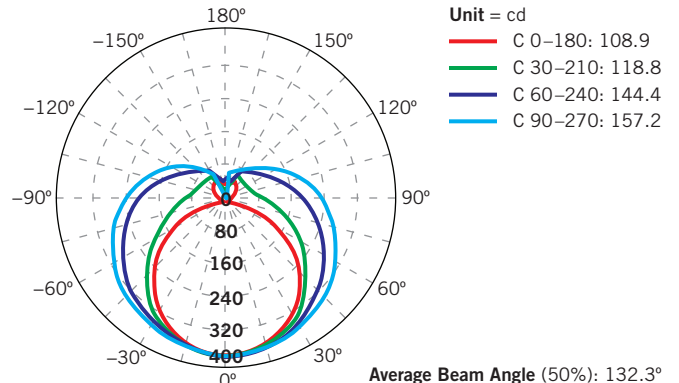
KT-LED10.5T8-48GC-835-D-VDIM
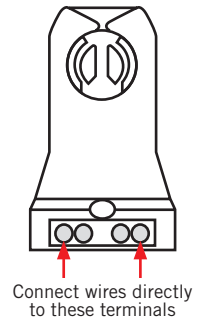## T8 LED LAMP

WIRING DIAGRAMS

Cut all existing connections to ballast as shown below and remove ballast.
Note: Both single-ended wiring wthout dimming and single-ended wiring wth dimming require non-shunted lampholders.

Typical Ballast Configurations

PROGRAM START

Lamp
Lamp
Yellow | Ballast | Red
Yellow | | 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 ballast with shunted sockets.

TYPICAL NON-SHUNTED LAMPHOLDER
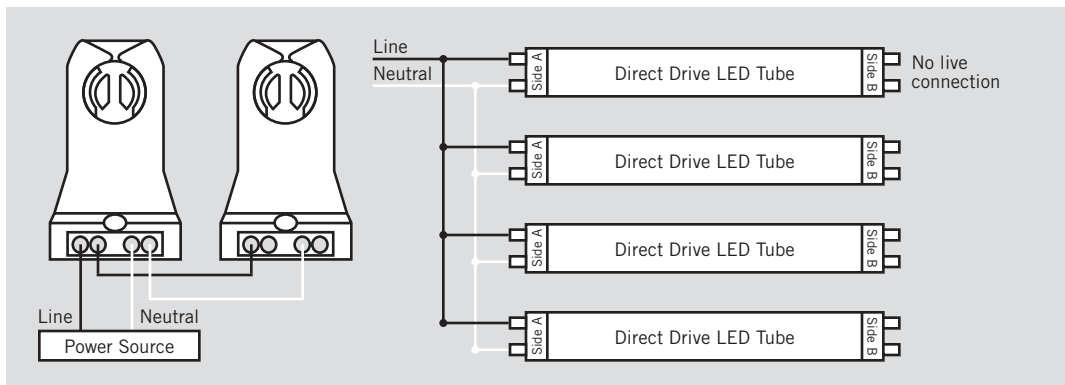

Connect wires directly to these terminals

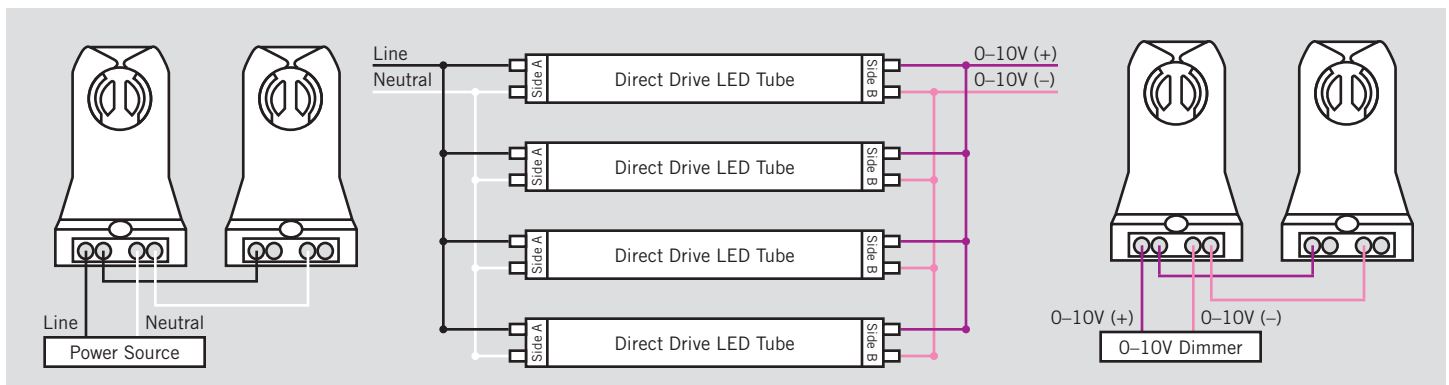**CAUTION: USE _ONLY_ NON-SHUNTED LAMPHOLDERS.**

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 in wiring diagrams.

Keystone can provide any style replacement lampholders.

Call us at 800-464-2680.

Single-ended wiring without dimming: Re-wire fixture as shown below.

Line
Neutral
Line | Neutral
Power Source

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

Single-ended wiring with dimming: Re-wire fixture as shown below.

Line
Neutral
Line | Neutral
Power Source

Side A | Direct Drive LED Tube | Side B | 0–10V (+) / 0–10V (–)
Side A | Direct Drive LED Tube | Side B
Side A | Direct Drive LED Tube | Side B
Side A | Direct Drive LED Tube | Side B

0–10V (+) | 0–10V (–)
0–10V Dimmer

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

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DirectDrive LED
LINE VOLTAGE T8 TUBES

KT-LED10.5T8-48GC-835-D-VDIM
T8 LED LAMP

PHYSICAL CHARACTERISTICS
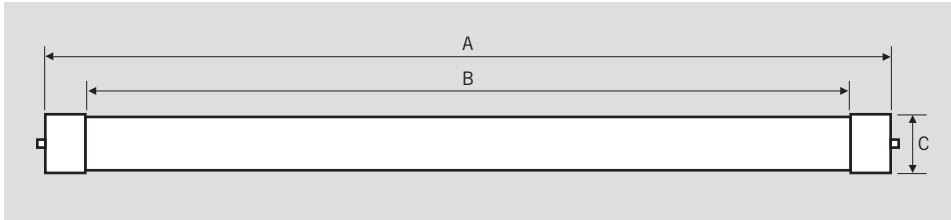
LAMP DIMENSIONS

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

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

ORDERING INFORMATION

ORDER CODE	CARTON QUANTITY	UPC	EASY CODE
KT-LED10.5T8-48GC-835-D-VDIM	25	843654136462	FSE-77

CATALOG NUMBER BREAKDOWN

KT-LED10.5T8-48GC-835-D-VDIM
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 **Coated Glass**
7 **>80 CRI**
8 **Color Temperature**
9 **Direct Drive Series**
10 **0–10V Dimming**