KEYSTONE · SINCE 1945 · LIGHT MADE EASY®

DIRECT DRIVE LED
LINE VOLTAGE T8 TUBES

KT-LED14.5T8-48GC-850-D-FDIM
T8 LED LAMP

DESCRIPTION

14.5W T8 LED I 5000K I >83 CRI I High Efficiency

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

LAMP TYPE:	Linear
BULB TYPE:	T8 LED
BASE TYPE:	G13 (Medium Bi-Pin)
WATTAGE:	14.5W
COLOR TEMPERATURE:	5000K
COLOR RENDERING INDEX (CRI):	>83
WARRANTY:	5 Years

PRODUCT FEATURES

- **Dimmable via TRIAC Dimmers (Forward Phase Control)**
- 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
- UL Classified ; Listed on DLC QPL

- Operating Temperature: -20ºC/-4ºF to 45ºC/113ºF
- Integral Driver (Isolated), Eliminates the Need for External Driver or Ballast
- 120+ 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, Splash Zone (Not for Direct Food Zone without additional fixture considerations)

OPERATING SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

Input Voltage	Power Consumption	Power Factor	Input Current
120V	14.5W	>0.9	0.12A @ 120V

RATED LIFE

L70 (Hours)	
	50,000

PHOTOMETRIC CHARACTERISTICS

Color Temperature (CCT)	5000K
Luminous Flux	1900 lm
Color Rendering Index (CRI)	>83
Efficacy	131 lm/W
Beam Angle	240º
Visible Light Area	325º

SPECTRAL DISTRIBUTION
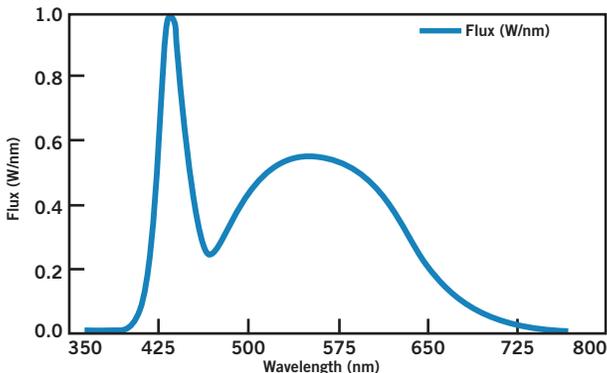
POLAR CANDELA DISTRIBUTION
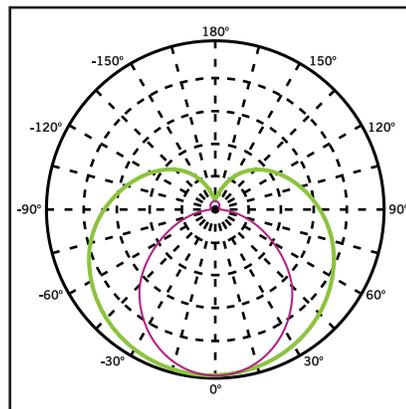
Located at Horizontal Angle = 0, Vertical Angle 0

1. **Violet** Vertical Plane through Horizontal Angles (90-270)

2. **Green** Vertical Plane through Horizontal Angles (0-180)

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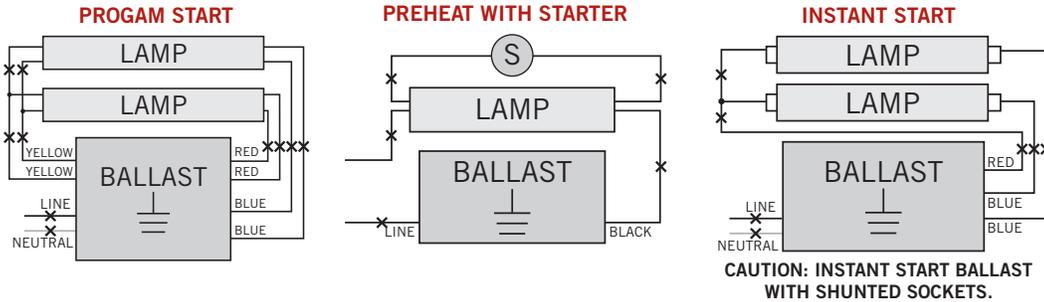# DIRECT DRIVE LED
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WIRING DIAGRAMS

1. Cut all existing connections to ballast as shown below and remove ballast.

Typical Ballast Configurations:

PROGAM START — LAMP / LAMP / BALLAST / YELLOW YELLOW / RED RED / LINE / BLUE BLUE / NEUTRAL

PREHEAT WITH STARTER — S / LAMP / BALLAST / LINE / BLACK

INSTANT START — LAMP / LAMP / BALLAST / LINE / RED / NEUTRAL / BLUE

CAUTION: INSTANT START BALLAST WITH SHUNTED SOCKETS.
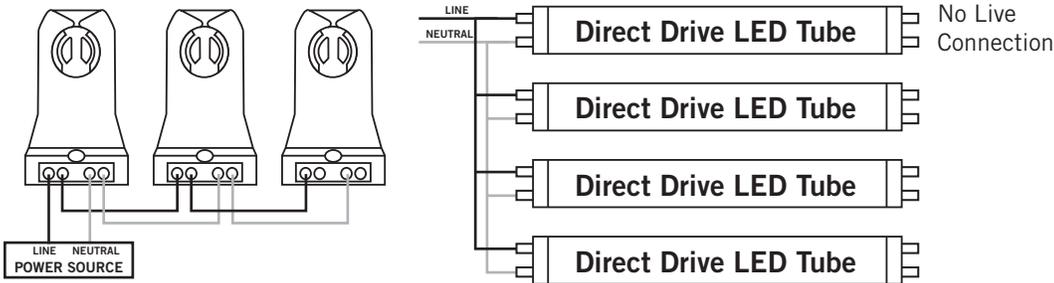
Typical Non-Shunted Lampholder

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 above.
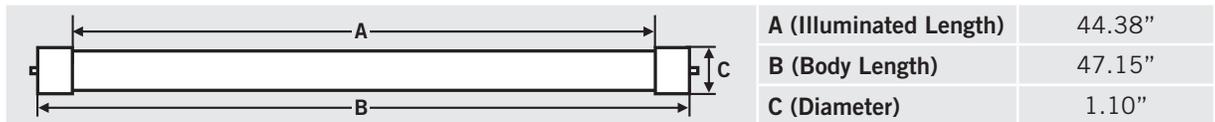
Keystone can provide any style replacement lampholders. Call us at 800-464-2680.

2. Re-wire fixture as shown below.

LINE / NEUTRAL / Direct Drive LED Tube / No Live Connection
Direct Drive LED Tube
Direct Drive LED Tube
Direct Drive LED Tube

LINE NEUTRAL
POWER SOURCE

PHYSICAL CHARACTERISTICS

LAMP DIMENSIONS

A (Illuminated Length)	44.38"
B (Body Length)	47.15"
C (Diameter)	1.10"

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

ORDERING INFORMATION

ORDER CODE	PACKAGING STYLE	PACK QTY.	ITEM STATUS
KT-LED14.5T8-48GC-850-D-FDIM-CP	Carton Pack (Egg Crate Packaging)	25	Quick Ship

CATALOG NUMBER BREAKDOWN

KT-LED14.5T8-48GC-850-D-FDIM-CP
1   2   3   4   5   6   7   8   9   10   11

1 Keystone Technologies
2 LED Lamp
3 Wattage
4 Lamp Type
5 Nominal Length (Inches)
6 Shatter-Proof Coated Glass
7 800 Series
8 Color Temperature
9 Direct Drive Series
10 Forward Phase Dimming
11 Packaging Style