KEYSTONE SINCE 1945

DirectDrive LED
LINE VOLTAGE T8 TUBES
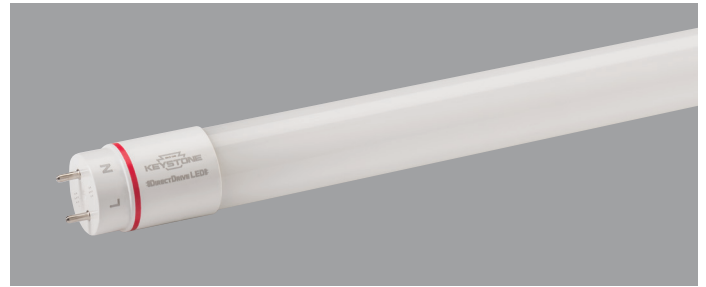
KT-LED9T8-48G-850-D
T8 LED LAMP

DESCRIPTION
9W T8 LED **I** 5000K **I** >83 CRI **I** High Efficiency

(Certification marks: UL Classified c/us, c UL us, RoHS Compliant, 5 YEAR WARRANTY, DLC)

LAMP TYPE: Linear	
BULB TYPE: T8 LED	
BASE TYPE: G13 (Medium Bi-Pin)	
WATTAGE: ~9W	
COLOR TEMPERATURE: 5000K	
COLOR RENDERING INDEX (CRI): >83	
WARRANTY: 5 Years	

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

- UL Verified low optical flicker
- UL Classified
- Operating temperature: -20ºC/-4ºF to 45ºC/113ºF
- Integral driver (Isolated) eliminates the need for external driver or ballast
- Approximately ~175 lumens per watt

OPERATING SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

Input Voltage	Power Consumption	Power Factor	Input Current
120-277Vac	~9.2W	>0.9	0.12A @ 120V 0.05A @ 277V

RATED LIFE

L70 (Hours)	
	50,000

PHOTOMETRIC CHARACTERISTICS

Color Temperature (CCT)	5000K
Luminous Flux	1650 lm
Color Rendering Index (CRI)	>83
Efficacy	183 lm/W
Beam Angle	240º
Visible Light Area	325º

SPECTRAL DISTRIBUTION
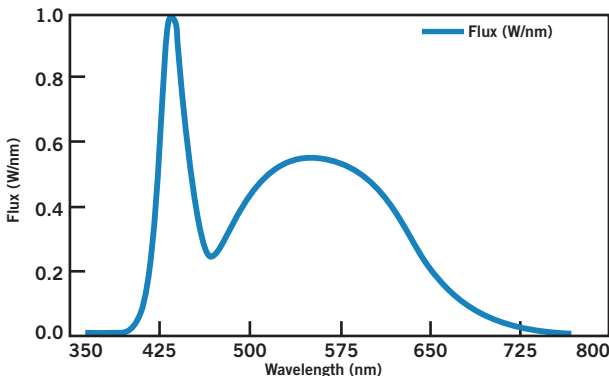
POLAR CANDELA DISTRIBUTION
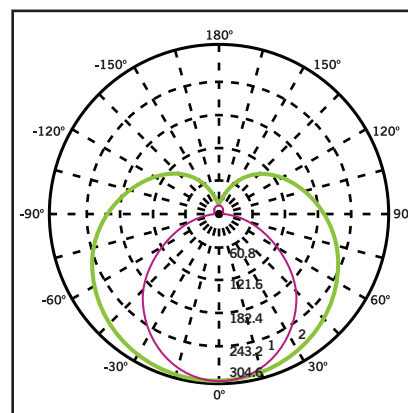
Maximum Candela = 1248.55
Located at Horizontal Angle = 0,
Vertical Angle 0

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

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

KEYSTONE SINCE 1945
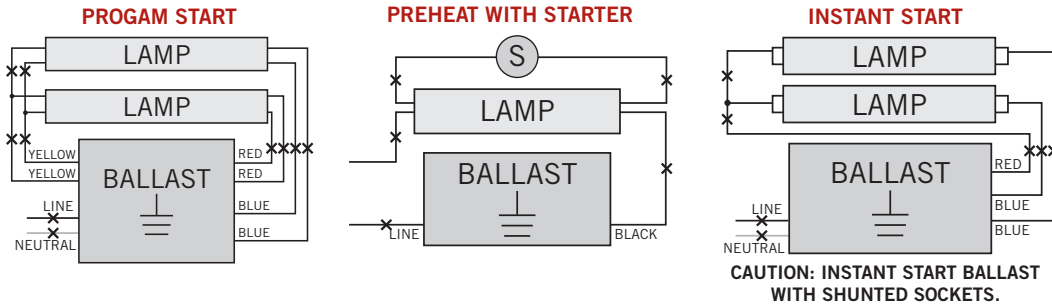
DIRECTDRIVE LED
LINE VOLTAGE T8 TUBES

KT-LED9T8-48G-850-D
T8 LED LAMP

WIRING DIAGRAMS

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

Typical Ballast Configurations:

PROGAM START

PREHEAT WITH STARTER

INSTANT START

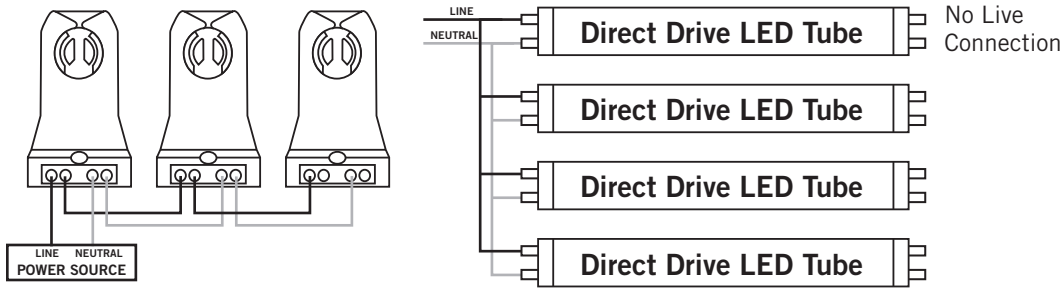CAUTION: INSTANT START BALLAST WITH SHUNTED SOCKETS.

Typical Non-Shunted Lampholder
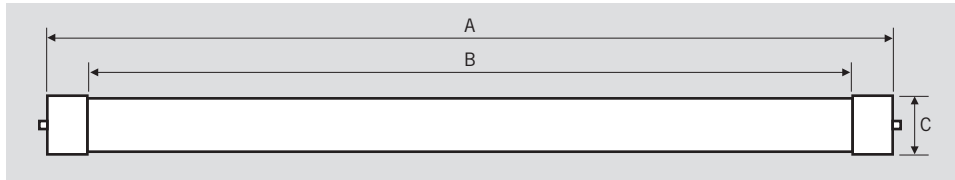
Connect wires directly to these terminals

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

A
B
C

LAMP DIMENSIONS

A (Body Length)	47.15"
B (Illuminated 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-LED9T8-48G-850-D-CP	Carton Pack (Egg Crate Packaging)	25	Quick Ship

CATALOG NUMBER BREAKDOWN

KT-LED9T8-48G-850-D-CP
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
7 800 Series
8 Color Temperature
9 DirectDrive Series
10 Packaging Style