KEYSTONE
SINCE 1945
LIGHT MADE EASY®

DIRECTDRIVE LED
LINE VOLTAGE T8 TUBES

KT-LED9T8-24GC-850-D
T8 LED LAMP

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

LAMP TYPE: Linear	
BULB TYPE: T8 LED	
BASE TYPE: G13 (Medium Bi-Pin)	
WATTAGE: 18W	
COLOR TEMPERATURE: 5000K	
COLOR RENDERING INDEX (CRI): >83	
WARRANTY: 5 Years	

PRODUCT FEATURES
- Replacement for Conventional Fluorescent Lamp
- Was listed on DLC QPL prior to April 2017
- 50,000+ Hour Lifetime
- Environmentally Friendly: No Mercury Used
- Instant Startup
- Frosted Lens Eliminates Pixelation
- UL Classified
- Operating Temperature: -20ºC/-4ºF to 45ºC/113ºF

- Integral Driver (Isolated), Eliminates the Need for External Driver or Ballast
- 100+ 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
120-277Vac	9W	>0.9	0.08A @ 120V 0.04A @ 277V

RATED LIFE

L70 (Hours)	50,000

PHOTOMETRIC CHARACTERISTICS

Color Temperature (CCT)	5000K
Luminous Flux	1000 lm
Color Rendering Index (CRI)	>83
Efficacy	111 lm/W
Beam Angle	240°
Visible Light Area	325°

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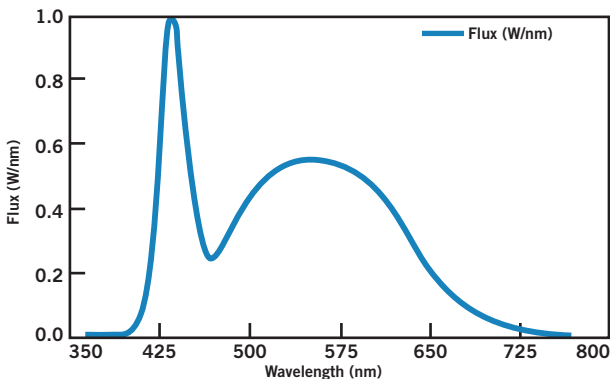
POLAR CANDELA DISTRIBUTION
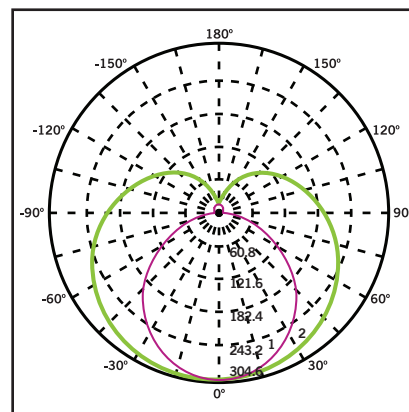
Maximum Candela = 1248.55
Located at Horizontal Angle = 0,
Vertical Angle 0

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

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

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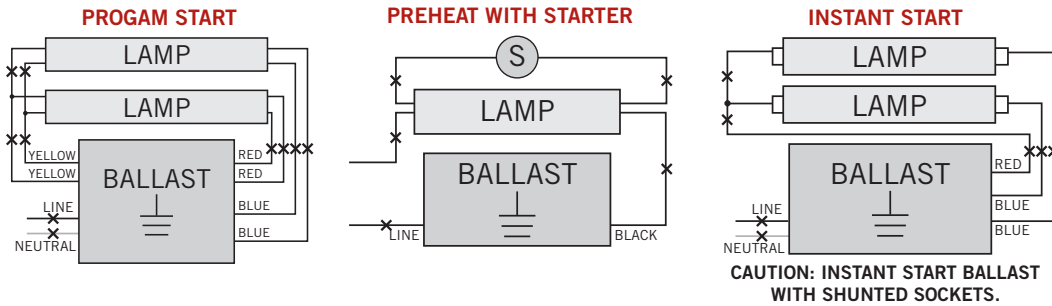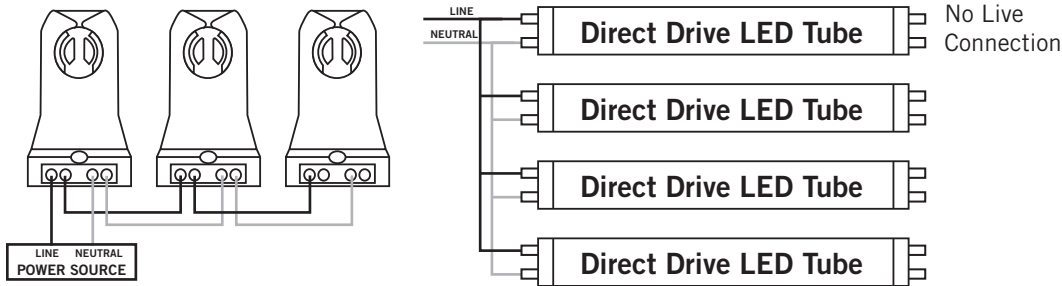LINE VOLTAGE T8 TUBES

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WIRING DIAGRAMS

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

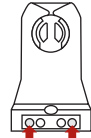**Typical Ballast Configurations:**

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
LAMP DIMENSIONS

A (Illuminated Length)	20.31"
B (Body Length)	23.19"
C (Diameter)	1.10"

NOMINAL LENGTH: 24"   **BASE TYPE:** G13 (Medium Bi-Pin)

ORDERING INFORMATION

ORDER CODE	PACKAGING STYLE	PACK QTY.	ITEM STATUS
KT-LED9T8-24GC-850-D-CP	Carton Pack (Egg Crate Packaging)	25	Quick Ship

CATALOG NUMBER BREAKDOWN

KT-LED9T8-24GC-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 Shatter-Proof Coated Glass
7 800 Series
8 Color Temperature
9 Direct Drive Series
10 Packaging Style