KEYSTONE SINCE 1945 | **DIRECTDRIVE LED**
LINE VOLTAGE T8 TUBES

KT-LED18T8-48GC-840-D
T8 LED LAMP

DESCRIPTION

18W T8 LED I 4000K I >83 CRI I High Efficiency

ETL Intertek | DLC | CLASSIFIED c UL us | c UL us | RoHS Compliant | 5 YEAR WARRANTY

LAMP TYPE: Linear	
BULB TYPE: T8 LED	
BASE TYPE: G13 (Medium Bi-Pin)	
WATTAGE: 18W	
COLOR TEMPERATURE: 4000K	
COLOR RENDERING INDEX (CRI): >83	
WARRANTY: 5 Years	

PRODUCT FEATURES

- Replacement for Conventional Fluorescent Lamp
- Listed on DLC Qualified Product List
- 50,000+ Hour Lifetime
- Approximately 40% More Energy Efficient that Standard F32T8 Lamps
- 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
- ETL Sanitation Listed NSF/ANSI Standard 2 - Food Equipment

OPERATING SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

Input Voltage	Power Consumption	Power Factor	Input Current
120-277Vac	18W	>0.9	0.15A @ 120V 0.07A @ 277V

RATED LIFE

L70 (Hours)	
	50,000

PHOTOMETRIC CHARACTERISTICS

Color Temperature (CCT)	4000K
Luminous Flux	1900 lm
Color Rendering Index (CRI)	>83
Efficacy	106 lm/W
Beam Angle	240º
Visible Light Area	325º

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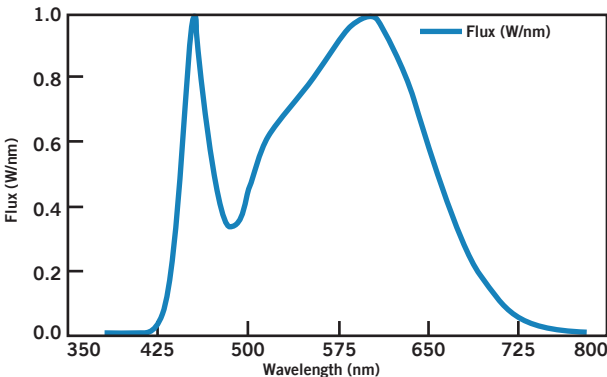
POLAR CANDELA DISTRIBUTION
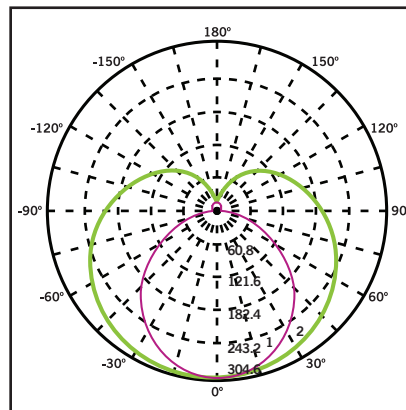
Maximum Candela = 1248.55
Located at Horizontal Angle = 0,
Vertical Angle 0

1. **Violet** Vertical Plane through Horizontal Angles (90-270)
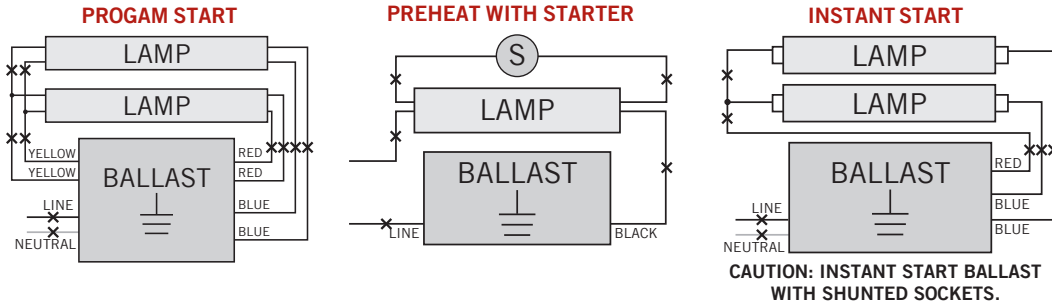
2. **Green** Vertical Plane through Horizontal Angles (0-180)

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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
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

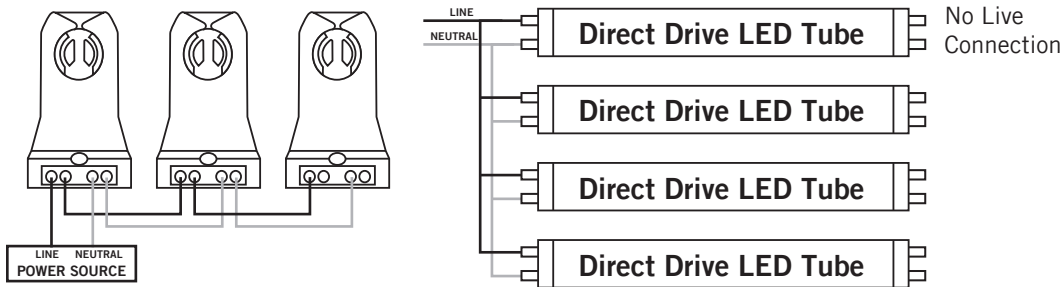CAUTION: INSTANT START BALLAST
WITH SHUNTED SOCKETS.

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 bal-
lasts). If the current lampholders
are shunted, remove them and
replace them with non-shunted
lampholders. Make new con-
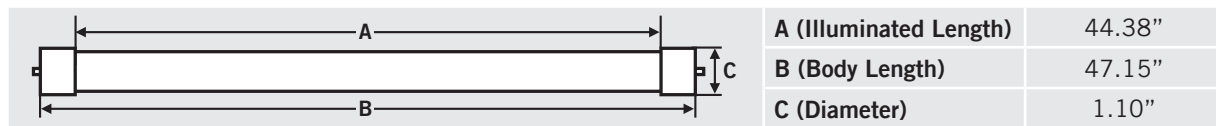nections directly to terminals as
indicated above.

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-LED18T8-48GC-840-D-CP	Carton Pack (Egg Crate Packaging)	25	Quick Ship
KT-LED18T8-48GC-840-D-DP	Distributor Pack (Individual Cartons)	12	Quick Ship

CATALOG NUMBER BREAKDOWN

KT-LED18T8-48GC-840-D-CP

Keystone Technologies	LED Lamp	Wattage	Lamp Type	Nominal Length (Inches)	Shatter-Proof Coated Glass	800 Series	Color Temp.	Direct Drive Series	Packaging Style

Specifications subject to change. Last revised on 7.2.15