KEYSTONE
SINCE 1945
LIGHT MADE EASY®

DIRECTDRIVE LED
LINE VOLTAGE T8 TUBES

KT-LED7T8-18GC-850-D
T8 LED LAMP

Low Optical Flicker
Less Than 2%
Up to 400 Hz

UL CLASSIFIED

c(UL)us CLASSIFIED

c**UL**us

RoHS Compliant

TRUSTED WARRANTY NLB NATIONAL LIGHTING BUREAU

10 YEAR LIMITED WARRANTY

DESCRIPTION
7W T8 LED | 5000K | >83 CRI | High Efficiency

LAMP TYPE: Linear	
BULB TYPE: T8 LED	
BASE TYPE: G13 (Medium Bi-Pin)	
WATTAGE: 7W	
COLOR TEMPERATURE: 5000K	
COLOR RENDERING INDEX (CRI): >83	
WARRANTY: 10 Years	

PRODUCT FEATURES

- Replacement for Conventional Fluorescent Lamp
- 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
- UL Flicker Free Design from date code 1910B

OPERATING SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Input Voltage	Power Consumption	Power Factor	Input Current
120-277Vac	7W	>0.9	0.06A @ 120V 0.03A @ 277V

RATED LIFE

L70 (Hours)	50,000

PHOTOMETRIC SPECIFICATIONS

Color Temperature (CCT)	5000K
Luminous Flux	800 lm
Color Rendering Index (CRI)	>83
Efficacy	114 lm/W
Beam Angle	240º
Visible Light Area	325º

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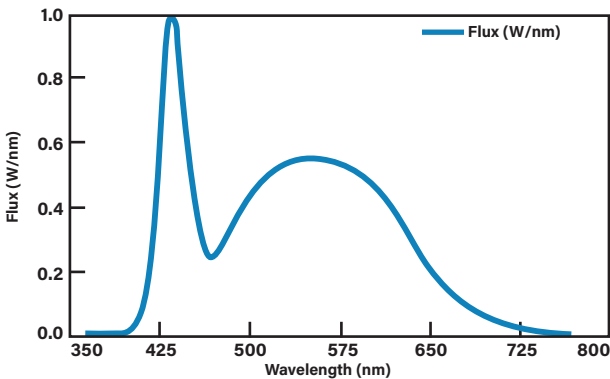
POLAR CANDELA DISTRIBUTION
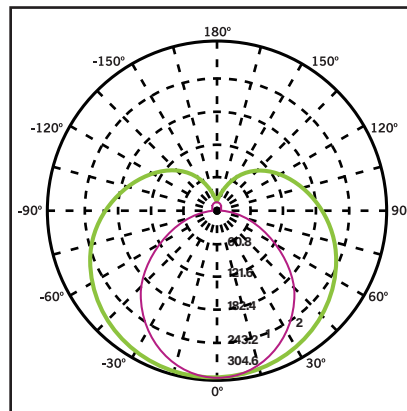
**Maximum Candela = 1248.55
Located at Horizontal Angle = 0,
Vertical Angle 0**

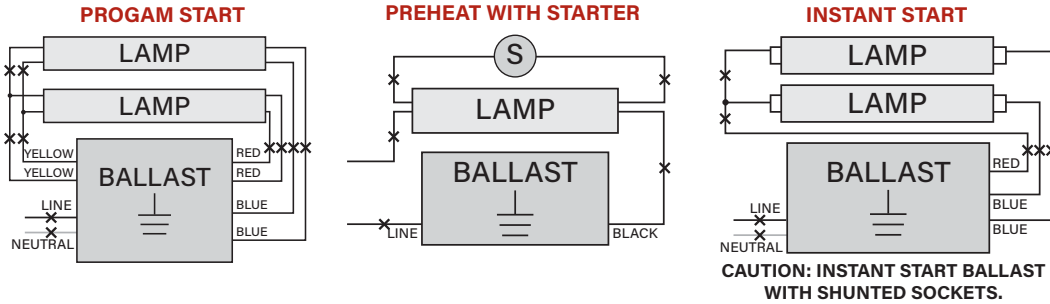1. **Violet** Vertical Plane through Horizontal Angles (90-270)

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
YELLOW
BALLAST
RED
RED
BLUE
BLUE
LINE
NEUTRAL

PREHEAT WITH STARTER

S
LAMP
BALLAST
LINE
BLACK

INSTANT START

LAMP
LAMP

BALLAST
RED
BLUE
BLUE
LINE
NEUTRAL

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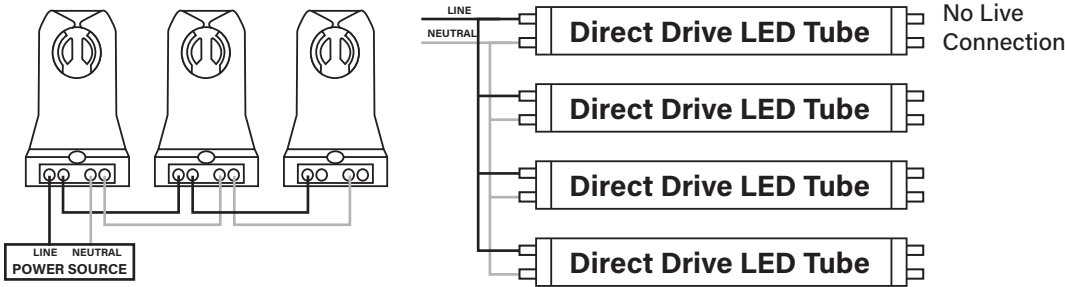
Typical Non-Shunted Lampholder

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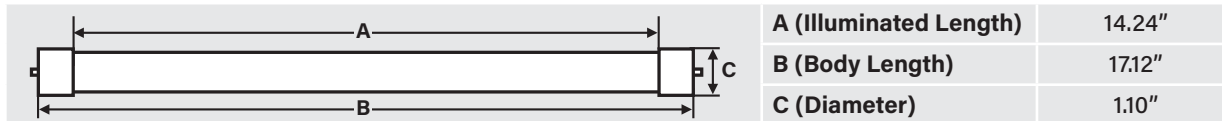
Keystone can provide any style replacement lampholders. Call us at 800-464-2680.

2. Re-wire fixture as shown below.

LINE
NEUTRAL
POWER SOURCE

LINE
NEUTRAL

Direct Drive LED Tube — No Live Connection

Direct Drive LED Tube

Direct Drive LED Tube

Direct Drive LED Tube

PHYSICAL SPECIFICATIONS
LAMP DIMENSIONS

A (Illuminated Length)	14.24″
B (Body Length)	17.12″
C (Diameter)	1.10″

NOMINAL LENGTH: 18″ **BASE TYPE:** G13 (Medium Bi-Pin)

ORDERING INFORMATION

ORDER CODE	PACK QTY.	UPC	EASY CODE
KT-LED7T8-18GC-850-D-CP	25	89094900940	GDL-77

CATALOG NUMBER BREAKDOWN

KT-LED7T8-18GC-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 80 CRI
8 Color Temperature
9 Direct Drive Series
10 Packaging Style