KEYSTONE SINCE 1945 LIGHT MADE EASY®

DIRECT DRIVE DX2

SINGLE- OR DOUBLE-ENDED LINE VOLTAGE LED TUBES

KT-LED12T8-36GC-8XX-DX2 /G2

T8 LED LAMP

10 YEAR LIMITED WARRANTY

DESCRIPTION

12W T8 LED | 3500–5000K | >83 CRI | High Efficiency | Single or Double-ended Wiring

- **LAMP TYPE:** Linear
- **BULB TYPE:** T8 LED
- **BASE TYPE:** G13 (Medium Bi-Pin)
- **WATTAGE:** 12W
- **COLOR TEMPERATURE:** 3500–5000K
- **COLOR RENDERING INDEX (CRI):** >83
- **WARRANTY:** 10 Year Limited



PRODUCT FEATURES

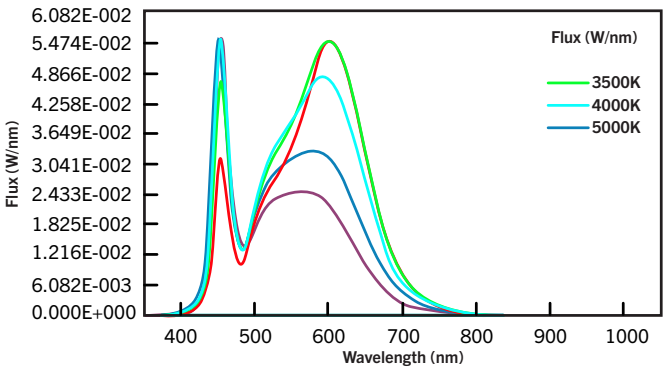
- Replacement for Conventional Fluorescent Lamp
- Single or Double-Ended Wiring
- 50,000+ Hour Lifetime
- Approximately 40% More Energy Efficient that Standard F32T8 Lamps
- Environmentally Friendly: No Mercury Used
- Instant Startup
- NSF listed: NSF/ANSI Standard 2: Food equipment splash zone (component level—not for direct food zone without additional fixture considerations)
- Improved Lamp Durability with Shatterproof Coated Glass, designed to pass drop tests of 6′ on hard surface
  DLC Listed
- Frosted Glass Lens Eliminates Pixelation
- UL Classified
- Operating Temperature: -20ºC/-4ºF to 45ºC/113ºF
  Storage Temperature: -40ºC/-40ºF to 70ºC/158ºF
- Operating Humidity: 35-80%
- THD 20%
- Integral Driver (Isolated), Eliminates the Need for External Driver or Ballast
  130+ Lumens per Watt
  Meets FCC Part 15, Class B
- Compatible with Keystone AC Emergency Drivers: KT-EMRG-LED-5-500-AC, KT-EMRG-LED-5-500-AC/DF, KT-EMRG-LED-12-1200-AC, or KT-EMRG-LED-12-1200-AC /DF
- Lamp is dimmable when used with an appropriate dimming accessory (purchased separately). Contact Keystone for more details to find out what is best for the intended application.
- Not for use in sealed / vapor tight fixtures

ELECTRICAL AND PERFORMANCE SPECIFICATIONS

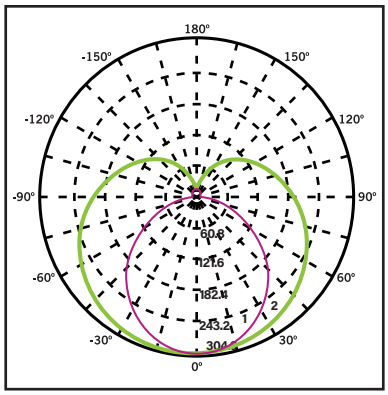
Catalog Number	Input Voltage	Power Consumption	Color Temperature (CCT)	Luminous Flux	Efficacy	Beam Angle	Visible Light Area	Power Factor	Input Current	Rated Life
KT-LED12T8-36GC-835-DX2 /G2	120-277Vac	12W	3500K	1600 lm	133 lm/W	240º	325º	>0.9	0.10A @ 120V 0.04A @ 277V	L70 (Hours) 50,000
KT-LED12T8-36GC-840-DX2 /G2			4000K	1650 lm	138 lm/W					
KT-LED12T8-36GC-850-DX2 /G2			5000K	1650 lm	138 lm/W					

PHOTOMETRIC SPECIFICATIONS

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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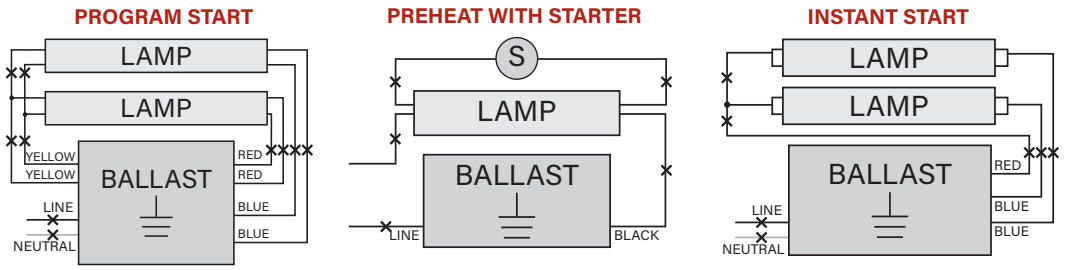
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SINGLE-ENDED WIRING DIAGRAM

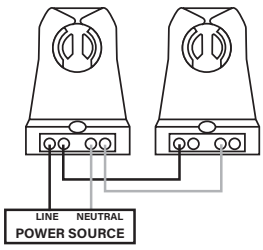
1. Cut all existing connections to ballast as shown below and remove ballast. See Figure A for typical ballast configurations. **Note: Single-ended wiring requires non-shunted lampholders.**

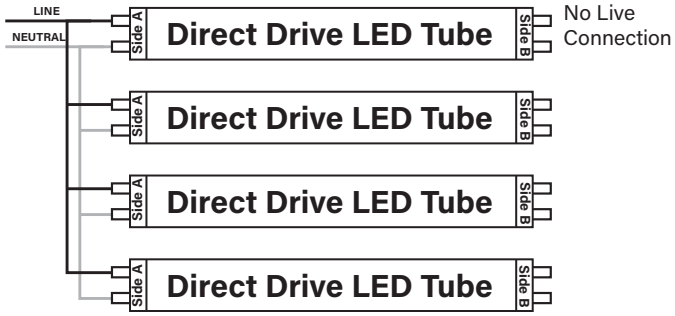
Figure A **Typical Ballast Configurations:**



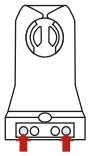
CAUTION: INSTANT START BALLASTS HAVE SHUNTED LAMPHOLDERS.

2. Re-wire fixture as shown below.





Typical Non-Shunted Lampholder



Connect wires directly to these terminals

CAUTION: For Single-ended wiring use only non-shunted lampholders.

For Single-ended wiring, 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.

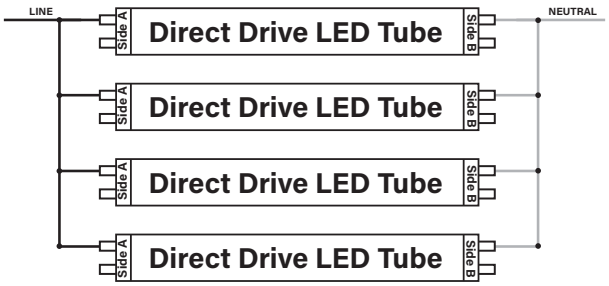
DOUBLE-ENDED WIRING DIAGRAM

1. Cut all existing connections to ballast as shown below and remove ballast. See Figure A above for typical ballast configurations.

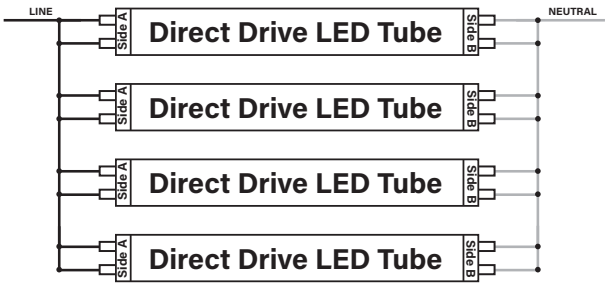
2. Re-wire fixture as shown below. For Double-ended wiring, use either shunted or nonshunted lampholders.

Note: There should not be any exposed wires at the end of installation.

Shunted Lampholders



Nonshunted Lampholders



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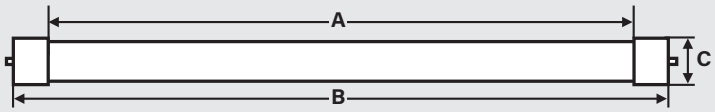
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PHYSICAL SPECIFICATIONS

LAMP DIMENSIONS



A (Illuminated Length)	30.64″
B (Body Length)	35.19″
C (Diameter)	1.02″

NOMINAL LENGTH: 36″ **BASE TYPE:** G13 (Medium Bi-Pin)

ORDERING INFORMATION

ORDER CODE	PACK QTY.	UPC	EASY CODE	DLC PRODUCT ID
KT-LED12T8-36GC-835-DX2 /G2	25	843654157337	BGX-19	TBD
KT-LED12T8-36GC-840-DX2 /G2	25	843654157344	VQU-86	
KT-LED12T8-36GC-850-DX2 /G2	25	843654157351	LFA-22	

CATALOG NUMBER BREAKDOWN

KT-	LED	12	T8-	36	GC-	8	XX-	DX2	/G2
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 Coated**
7. **80 CRI**
8. **Color Temperature**
9. **Single- or Double-Ended Wiring**
10. **Second Generation**