

The Clark LED Tube is a unique design that allows you to either use with existing T8 electronic ballasts or bypass ballast and use internal driver for easy install in T10 or T12 fixtures. Featuring superior efficiency, long life and DLC qualifications, this LED fluorescent replacement tube is ready for projects large and small.

**For use with T8 Electronic Ballasts in ballast compatible mode. Can also be used as ballast bypass mode: re-wire to single-end power. Requires non-shunted lamp holders (tombstones). Not for use with dimmers.**

### Features

- Environmentally friendly with no mercury
- High lumen efficiency >100 lm/W
- Dual mode operation compatible with T8 electronic ballasts or T10/T12 when ballast is bypassed
- Available in **Frosted or Clear Lenses**
- LED 50,000 life hours
- Five years limited warranty
- DesignLights Consortium qualified & Rebate Ready
- UL listed



### Common Technical Data

Color Temperature	2700K to 5000K	Input Voltage with ballast	100-277VAC
Beam Angle	120 degree	Input Voltage without ballast	100-277VAC
Color Consistency	4 steps	Frequency	50-60Hz
CRI	More than 80	Power Factor	More than 0.99
Operation Temperature	-30-40C	Rated Life	50000 hours
Efficiency with ballast	More than 110 LPW	Led Type	SMT 2835
Efficiency without ballast	More than 125 LPW	Housing	Aluminum

### Product Specification

Product Number	Length (Inch)	Color	Bare Lamp (Watt)	Average System Watts (W)			Average System Initial Lumens			Package (mm)	Weigh
				Low Ballast Factor (0.78)	Norm Ballast Factor (0.88)	High Ballast Factor (1.10)	Low Ballast Factor (0.78)	Norm Ballast Factor (0.88)	High Ballast Factor (1.10)		
ZY-T8-13W1200 B1XX	48	3500K	13	12.5	15.5	16.5	1350	1700	1850	1260X230X240 30pcs/Carton	10.20kg/Carton
ZY-T8-13W1200 B1XX	48	4000K	13	12.5	15.5	16.5	1350	1700	1850	1260X230X240 30pcs/Carton	10.20kg/Carton
ZY-T8-13W1200 B1XX	48	5000K	13	12.5	15.5	16.5	1350	1700	1850	1260X230X240 30pcs/Carton	10.20kg/Carton
ZY-T8-15W1200 B1XX	48	3500K	15	14.2	16.5	17.8	1650	1860	1950	1260X230X240 30pcs/Carton	10.30kg/Carton
ZY-T8-15W1200 B1XX	48	4000K	15	14.2	16.5	17.8	1650	1860	1950	1260X230X240 30pcs/Carton	10.30kg/Carton
ZY-T8-15W1200 B1XX	48	5000K	15	14.2	16.5	17.8	1650	1860	1950	1260X230X240 30pcs/Carton	10.30kg/Carton
ZY-T8-18W1200 B1XX	48	3500K	18	16.8	20.7	23.5	1700	2200	2450	1260X230X240 30pcs/Carton	10.50kg/Carton
ZY-T8-18W1200 B1XX	48	4000K	18	16.8	20.7	23.5	1700	2200	2450	1260X230X240 30pcs/Carton	10.50kg/Carton
ZY-T8-18W1200 B1XX	48	5000K	18	16.8	20.7	23.5	1700	2200	2450	1260X230X240 30pcs/Carton	10.50kg/Carton
ZY-T8-20W1200 B1XX	48	3500K	20	18.2	23.5	25.6	1850	2450	2550	660X230X240 30pcs/Carton	10.55kg/Carton
ZY-T8-20W1200 B1XX	48	4000K	20	18.2	23.5	25.6	1850	2450	2550	660X230X240 30pcs/Carton	10.55kg/Carton
ZY-T8-20W1200 B1XX	48	5000K	20	18.2	23.5	25.6	1850	2450	2550	660X230X240 30pcs/Carton	10.55kg/Carton
ZY-T8-13W600 B1XX	24	3500K	13	12.5	15.5	16.5	1350	1700	1850	960X230X240 30pcs/Carton	7.00kg/Carton
ZY-T8-13W600 B1XX	24	4000K	13	12.5	15.5	16.5	1350	1700	1850	960X230X240 30pcs/Carton	7.00kg/Carton
ZY-T8-13W600 B1XX	24	5000K	13	12.5	15.5	16.5	1350	1700	1850	960X230X240 30pcs/Carton	7.00kg/Carton

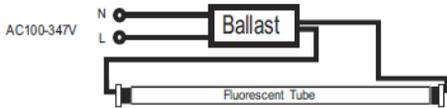
### Ordering Guide

ZY	T8	20W/18W/15W/13W	600/1200	B	I	XX
Company Code	Housing Type	Wattage	Length	2835 Led	Internal Driver	Input Type

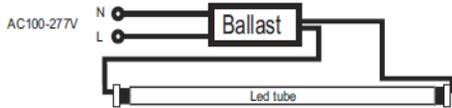
### Installation Procedure

#### “Plug” and “Play” procedure

1. Turn off the power to the light fixture at the breaker panel before installation.
2. Open the diffuser from the light fixture.
3. Remove the fluorescent tubes. Please dispose of these items properly as they contain mercury.



4. Put led tube into the lighting fixture.

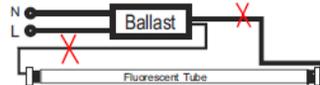


5. Install the LED tubes, close the diffuser.
6. Turn on the Power.

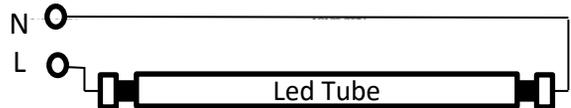
\* For one ballast by three fluorescent tubes fixture, at least need to put two pieces of ballast compatible tube.  
 For one ballast by four fluorescent tubes fixture, at least need to put three pieces of ballast compatible tube.

#### Retrofit procedure

1. Turn off the power to the light fixture at the breaker panel before installation.
2. Open the diffuser from the light fixture.
3. Remove the fluorescent tubes. Please dispose of these items properly as they contain mercury.
4. Cut the wires shown as the diagram below.



5. Make the new wire connect to branch circuit shown as the diagram below.
6. Replace the cover over the wiring channel.
7. Install the LED tubes, close the diffuser.



8. Turn on the Power.