

# Cypress Lighting Technologies

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## ALL-N-ONE Led Tube

*Works with or without a ballast!*

### Product Description:

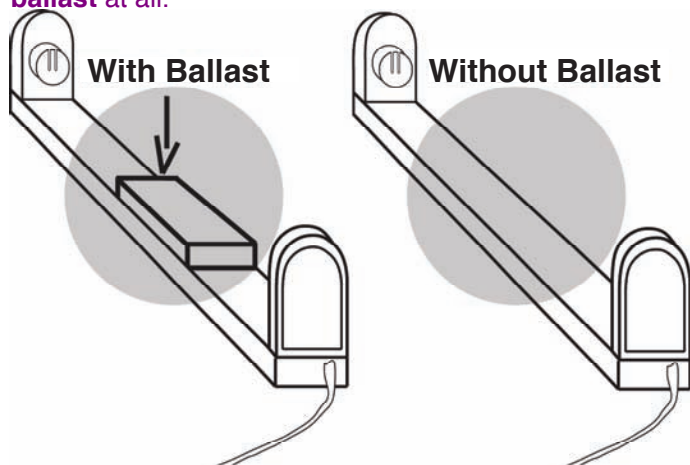
The **ALL-N-ONE** T8 LED tube serves as a special energy efficient replacement for all traditional fluorescent T8 lamps. **Designed to operate on all existing rapid start, instant start, programmed start, and emergency fixture ballasts... or simply no ballast at all.**



AL/PC



Nano



With Ballast

Without Ballast



### Features:

- The **ALL-N-ONE** tube can work both with or without a ballast A fantastic replacement “plug and play” tube or retrofit kit
- Compatible with over 90 percent of all North American electronic ballasts
- The versatility of the “**ALL-N-ONE**” support's massive projects with different types of ballasts
- Input voltage up to AC100-277V with ballast and AC100-277V without ballast
- Suitable for damp or dry environments
- UL, ETL, DLC, **NSF Qualified**
- Globally Patented Technology
- 5 Year Manufacturer's Warranty

### Common Technical Data:

Color Temperature	2700K to 5000K
Beam Angle	120 Degrees(AL/PC), 360 Degrees(Nano)
Color Consistency	4 Steps
CRI	> 80
Operation Temperature	-30°C to 40°C
Efficiency with ballast	More than 135 LPW
Efficiency without ballast	More than 125 LPW
Input Voltage with ballast	100-277VAC
Input Voltage without ballast	100-277VAC
Frequency	50-60Hz
Power Factor	More than 0.99
Rated Life	50,000 hours
LED Type	SMT2835
Housing	Aluminum / Plastic

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## Product Specification:

Product Number	Length (Inch)	Color	Bare Lamp (Watt)	Lumens	Average System Watts (W)			Average System Initial Lumens			Package (mm)	Weight/ Carton
					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 (1.110)		
CL-ZY-T8-18W1200B1XX-FR4K	48	4000K	18	2160	14.2	16.5	17.8	1650	1860	1950	1260X230X240 30pcs/Carton	10.30kg
CL-ZY-T8-18W1200B1XX-FR5K	48	5000K	18	2160	14.2	16.5	17.8	1650	1860	1950	1260X230X240 30pcs/Carton	10.30kg
CL-ZY-T8P-15W1200B1XX-FR4K	48	4000K*	15	2025	14.2	16.5	17.8	1650	1860	1950	1260X230X240 30pcs/Carton	9.92kg
CL-ZY-T8P-15W1200B1XX-FR5K	48	5000K	15	2025	16.8	20.7	23.5	1700	2200	2450	1260X230X240 30pcs/Carton	9.92kg
CL-ZY-T8P-12W1200B1XX-FR4K	48	4000K	12	1560	16.8	20.7	23.5	1700	2200	2450	1260X230X240 30pcs/Carton	9.92kg
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## Warranty:

This product has a warranty for a period of 5 years from the date of purchase. The warranty is invalid in the case of improper installation, tampering, or removal of the Q.C. date label. Installation in an improper working environment or installation not according to the current edition of the National Electric Code also invalidates the warranty. Should this product fail during the warranty period, it will be replaced free of charge, subject to correct installation and return of the faulty unit. Cypress does not accept responsibility for any installation costs associated with the replacement of this product. This warranty is an addition to the statutory rights in the country of purchase. Cypress reserves the right to alter specifications without prior notice.

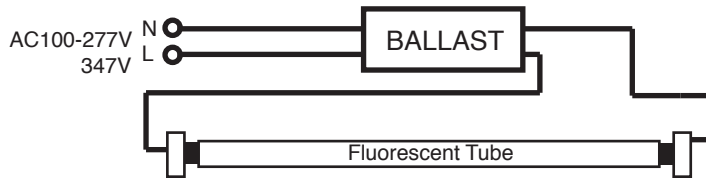
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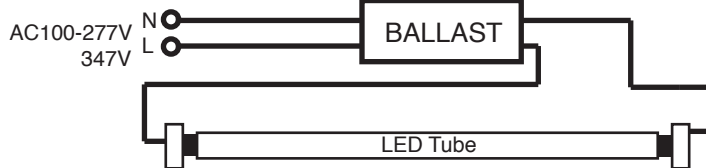
## Installation Instructions:

### “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.



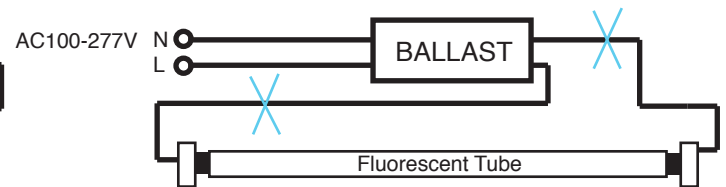
4. Put LED tube into the lighting fixture.



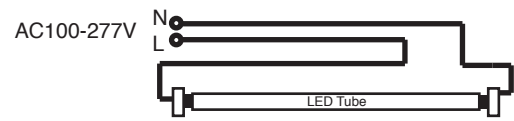
5. Install the LED tubes and close the diffuser.
6. Turn on the Power.

### 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 wires as shown on the diagram below:



5. Make the new wire connect to branch circuit as shown on the diagram below:



6. Replace the cover over the wiring channel.
7. Install the LED tubes and close the diffuser.
8. Turn on the Power.

- \* For one ballast by three fluorescent tube fixtures, install at least two ballast compatible tubes.
- \* For one ballast by four fluorescent tube fixtures, install at least three ballast compatible tubes.

## Caution:

- Risk of electric shock.
- Use only in place of fluorescent lamps specified on label.
- These lamps are to be used in damp or dry locations only.
- Not suitable for wet locations.
- These lamps are not to be used with a light dimmer.
- Direct replacement for fluorescent lamps with specific electronic ballasts only.
- If the lamp or luminaire exhibits undesirable operation (buzzing, flickering, etc), immediately turn off power, remove the lamp from luminaire and contact manufacturer.
- This lamp only operates on electronic ballasts. If lamp does not light when the luminaire is energized, remove this lamp from luminaire and contact manufacturer.
- Do not perform a mass installation before testing.