



Dynasty® Universal Fit LED T8 lamps can be installed to most fluorescent T8/T8 fixtures without cutting off the ballast and rewiring the whole fixture. Designed specifically to work with or without electronic ballasts, they also work with fixtures that do not have ballasts in place. These lamps operate on a 120/240/277 VAC, 50 or 60Hz universal power input. Compared to traditional LED T8 products, these universal fit LED T8 lamps will simplify installation.

Each Dynasty® LED T8 lamp has a 5 year warranty, reducing maintenance and energy costs. These lamps are vibration resistant, energy efficient and have a 60,000 hour lifetime. They contain no hazardous materials and are RoHS compliant. For more Dynasty® lighting products, Look for the Butterfly!

APPLICATIONS

- Schools
- Parking Garages
- Residential Houses
- Retail Stores/Displays
- Commercial/Government Buildings
- Office Buildings

BENEFITS

- Energy efficient
- 5 year warranty
- No fragile glass compared to fluorescent tubes
- Built-in power supply, no external ballast required
- No toxic materials, RoHS compliant
- No UV radiation
- Low carbon footprint
- Full brightness in cold temperatures
- CCT tolerances comply with ANSI C78.377-2008 standard

FEATURES

- Universal Fit
- UL 1993 / 1598 certified
- EMC test passed
- Low energy consumption
- 60,000 hour lifetime
- 180° homogenous light output
- No warm up, flicker-free operation
- Fire retardant materials
- Premium aluminum alloy heat sink for better heat dissipation

T-8 UNIVERSAL SERIES





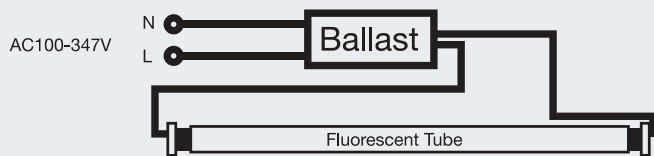
Product #	Description	Base	CCT	Frequency (Hz)	Lumen Output	Power Factor	Certifications	Input Voltage	CRI	Package	Warranty (Years)
33412-30-UL	4 FT, Warm White, 18W	G13	3000K	50/60	2160	0.99	UL/cUL/ETL	100-277	>80	30pcs	5
33412-40-UL	4 FT, Bright White, 18W	G13	4000K	50/60	2200	0.99	UL/cUL/ETL	100-277	>80	30pcs	5
33413-50-UL	4 FT, Cool White, 18W	G13	5000K	50/60	2250	0.99	UL/cUL/ETL	100-277	>80	30pcs	5
33413-30-UL	4 FT, Warm White, 15W	G13	3000K	50/60	1700	0.99	UL/cUL/ETL	100-277	>80	30pcs	5
33413-40-UL	4 FT, Bright White, 15W	G13	4000K	50/60	1785	0.99	UL/cUL/ETL	100-277	>80	30pcs	5
33412-50-UL	4 FT, Cool White, 15W	G13	5000K	50/60	1825	0.99	UL/cUL/ETL	100-277	>80	30pcs	5
33212-30-UL	2 FT, Warm White, 15W	G13	3000K	50/60	1700	0.99	UL/cUL/ETL	100-277	>80	30pc	5
33212-40-UL	2 FT, Bright White, 15W	G13	4000K	50/60	1785	0.99	UL/cUL/ETL	100-277	>80	30pcs	5
33212-50-UL	2 FT, Cool White, 15W	G13	5000K	50/60	1825	0.99	UL/cUL/ETL	100-277	>80	30pcs	5
33312-40-UL	3 FT, Bright White, 15W	G13	4000K	50/60	1800	0.9	UL/cUL/ETL	100-277	>80	30pcs	5
33512-40-UL	5 FT, Bright White, 18W	G13	4000K	50/60	2200	0.99	ETL	100-277	>80	30pcs	5
33213-40-UL	2 FT U-Bent, Bright White, 15W	G13	4000K	50/60	1800	0.99	UL/cUL/ETL	100-277	>80	10pcs	5

For a complete list of compatible ballasts go to caolighting.com under the Technical Documents section

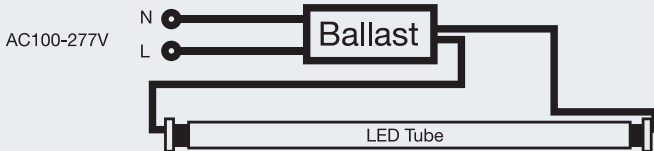
UNIVERSAL T8 INSTALLATION GUIDELINES

“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. Place LED tube into the lighting fixture.

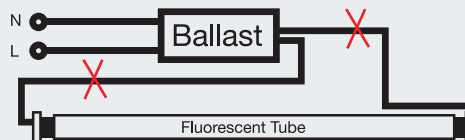


5. Install the LED tubes, close the diffuser.
6. Turn on the power.

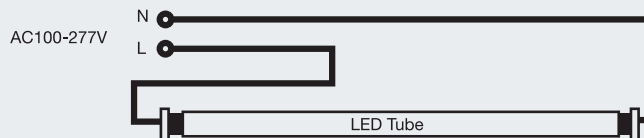
*For one ballast by three fluorescent tubes fixture, at least two ballast compatible tubes will be required.
 **For one ballast by four fluorescent tubes fixture, at least three ballast compatible tubes will be required.

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 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, close the diffuser.



8. Turn on the power.

Cautions

- Risk of fire. Do not install Dynasty® T8 LED lamps (lamps thereafter) in pre-heated luminaires.
- Risk of electric shock. Turn off power before installation.
- These lamps are not intended for emergency exit applications.
- These lamps are to be used in indoor, dry and damp locations only.
- Not suitable for wet locations.
- These lamps are not to be used with light dimmers.
- These lamps work with specific electronic ballast only. Please refer to complete compatibility list before installation.
- If the lamp or luminaire exhibits any sign of undesirable operation, such as buzzing, flickering, etc, turn off power immediately, remove the lamp from the luminaire and contact the manufacturer
- These lamps only work with electronic ballasts. If a lamp does not illuminate after power is turned on, turn off power immediately.
- Remove the lamp from luminaire and contact manufacturer.
- Test ballast and luminaires before mass installation.

Please call or visit our website to find a local distributor

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ISO 9001 CERTIFIED
 Patent #6,465,961, #6,634,770, #6,746,885, #7,728,345 and patents pending
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