



PRODUCT DESCRIPTION

The Plug and Play ONLY Patriot Tube T8/T12 LED tube achieving UL, ETL which can work with most T8/T12 Electronic and magnetic start ballast. This Tube can ONLY work with ballast. So, it is a fantastic direct replacement tube as well as retrofit kit. Compatible with the majority of the electronic & magnetic ballasts in North American market.

Our Plug and Play LED tubes are ballast ready for easy installation and are backed with our industry-leading 50,000-hour rated lamp life and 10-year warranty. Contact us for pricing or more information.

PRODUCT SPECIFICATION

OVERVIEW

- Efficiency greater than 120 LPW
- Operation Temperature: -30°C to 40°C
- Power Factor: More than 0.99
- Beam Angle: 300 Degrees
- CCT: 3500K to 5000K
- CRI: Minimum 80
- Input Voltage: 100-277 VAC
- Rated Life: 50,000 hours
- Limited Warranty*: 5 years
- Input Frequency: 50/60Hz

FEATURES

1. SMT 2835 LED chips
2. T8 Aluminum housing with plastic lens
3. Compatible with over 90% of all North American electronic ballasts



PLUG & PLAY LED TUBE

PRODUCT SPECIFICATION

Product No.	BAA/TAA Option	Color	Rated Lamp Wattage	Lens	AVERAGE SYSTEM WATTS (W)			AVERAGE SYSTEM LUMENS			Rated Life (Hours)	Operating Temp. (°F)
					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)		
2-foot ALPHA T8 PLUG AND PLAY LED Tube												
AL-T8ILT2-8W-PP USA	Yes	3500K - 5000K	8	Frosted	-	-	-	-	-	1360	50,000	-30°C to 40°C
AL-T8ILT2-12W-PP USA	Yes	3500K - 5000K	12	Frosted	12.5	15.5	16.5	1500	1860	1980	50,000	-30°C to 40°C
AL-T8ILT2-15W-PP USA	Yes	3500K - 5000K	15	Frosted	14.2	16.5	17.8	1704	1980	2136	50,000	-30°C to 40°C
AL-T8ILT2-18W-PP USA	Yes	3500K - 5000K	18	Frosted	16.8	20.7	23.5	2016	2484	2820	50,000	-30°C to 40°C
AL-T8ILT2-20W-PP USA	Yes	3500K - 5000K	20	Frosted	18.2	23.5	25.6	2184	2820	2820	50,000	-30°C to 40°C
AL-T8ILT2U-15W-PP USA	Yes	3500K - 5000K	15	Frosted	-	-	-	-	-	-	50,000	-30°C to 40°C
3-foot ALPHA T8 PLUG AND PLAY LED Tube												
AL-T8ILT3-12W-PP USA	Yes	3500K - 5000K	12	Frosted	12.5	15.5	16.5	1500	1860	1980	50,000	-30°C to 40°C
AL-T8ILT3-15W-PP USA	Yes	3500K - 5000K	15	Frosted	14.2	16.5	17.8	1704	1980	2136	50,000	-30°C to 40°C
AL-T8ILT3-18W-PP USA	Yes	3500K - 5000K	18	Frosted	16.8	20.7	23.5	2016	2484	2820	50,000	-30°C to 40°C
AL-T8ILT3-20W-PP USA	Yes	3500K - 5000K	20	Frosted	18.2	23.5	25.6	2184	2820	2820	50,000	-30°C to 40°C
4-foot ALPHA T8 PLUG AND PLAY LED Tube												
AL-T8ILT4-12W-PP USA	Yes	3500K - 5000K	12	Frosted	12.5	15.5	16.5	1500	1860	1980	50,000	-30°C to 40°C
AL-T8ILT4-14W-PP USA	Yes	3500K - 5000K	14	Frosted	15.2	16.5	23.2	1650	1860	2750	50,000	-30°C to 40°C
AL-T8ILT4-16W-PP USA	Yes	3500K - 5000K	16	Frosted	16.5	18.5	25.8	1950	2250	2820	50,000	-30°C to 40°C
AL-T8ILT4-18W-PP USA	Yes	3500K - 5000K	18	Frosted	-	-	-	-	-	-	50,000	-30°C to 40°C

PHYSICAL DATA

Product No.	Housing	Packing(in)/carton	Weight/carton
PATRIOT T8 PLUG AND PLAY LED Tube			
AL-T8ILT2-8W-PP USA	Aluminum + PC	24x8x9 42pieces	0.036CBM//4.2KG
AL-T8ILT2-12W-PP USA	Aluminum + PC	24x8x9 42pieces	0.036CBM//4.2KG
AL-T8ILT3-12W-PP USA	Aluminum + PC	36x8x9 42pieces	0.036CBM//5.5KG
AL-T8ILT4-12W-PP USA	Aluminum + PC	48x8x9 42pieces	0.069CBM//7.5KG
AL-T8ILT4-14W-PP USA	Aluminum + PC	48x8x9 42pieces	0.069CBM//7.5KG
AL-T8ILT4-16W-PP USA	Aluminum + PC	48x8x9 42pieces	0.069CBM//7.5KG
AL-T8ILT4-18W-PP USA	Aluminum + PC	48x8x9 42pieces	0.069CBM//7.5KG
AL-T8ILT2U-15W-PP USA	Aluminum + PC	48x8x9 42pieces	0.069CBM//7.5KG



INSTALLATION INSTRUCTION

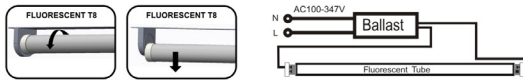
Magic ballast compatible tube with Aluminum housing..

"Plug" and "Play" procedure (UL Type A)

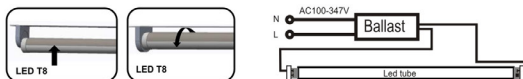
1. Turn off the power to the light fixture at the breaker panel before installation.



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.



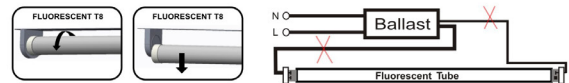
* For one ballast by three fluorescent tubes fixture, at least need to put two pieces of ballast compatible tube.
For one ballast by four fluorescent tubes fixture, at least need to put three pieces of ballast compatible tube.

Retrofit Procedure (UL Type B)

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.



Warning:

- Risk of fire. Do not install this lamp in a pre-heat luminaire.
- Risk of electric shock.
- Loose or damaged lamp holder need to be changed or adjusted before installation.
- Use only in place of fluorescent lamps specified on label.
- This device is not intended for use with emergency exists.
- These lamps are to be used in indoor damp location only.
- Not suitable for wet location.
- These lamps are not to be used with a light dimmer.
- Work with specific instant start electronic ballast only.
- If the lamp or luminaire exhibits undesirable operation (Buzzing, Flickering, etc), immediately turn off power, remove lamp from luminaire and contact manufacturer.
- If lamp does not light when the luminaire is energized, remove this lamp from luminaire and contact manufacturer.
- Do not make mass installation before testing.