

# DATA SHEET: LED NANO HYBRID TUBE NANO All Plastic Lens, UL Type A & B

The PATRIOT LED NANO HYBRID TUBE serves as a special energy efficient replacement for all traditional fluorescent T8 lamps. Designed to operate on all existing rapid-start, instant-programmed-start, and emergency fixture ballasts and some magnetic ballast or simply no ballast at all.

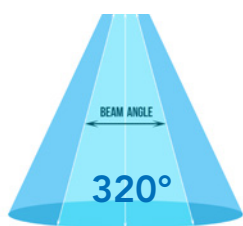
Our NANO HYBRID TUBES are backed with our industry-leading 100,000-hour rated lamp life and 10-year warranty. See Ordering Model table below for our BAA compliant products. Contact us for pricing or more information.

## PRODUCT BENEFITS

- Compatible with or without a ballast
- Can be direct wire connection
- Replacement “plug and play” tube or retrofit kit
- Suitable for damp or dry environments
- Minimize labor and recycling costs
- Stable lumen output
- Mercury free and virtually no UV or IR light
- Non-dimmable
- Compatible with over 90% of North American electronic ballasts
- Rated Life: 100,000 hrs
- Limited Warranty: 5 year (10 year optional)

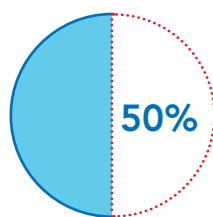


### BEAM ANGLE



Patriot LED Light Distribution

### CAN DECREASE ENERGY USAGE BY



vs. Similar Fluorescent Lamps

### WARRANTY



Our Industry-Leading 10-Year Limited Warranty Guarantees Unsurpassed Quality

## TECHNICAL DATA

- CCT: 3500K, 4000K, 5000K
- Color Rendering Index (CRI): >80
- Operation Temperature: -30°C to 40°C
- Efficiency with ballast: >120LPW
- Efficiency without ballast: >125LPW
- Universal voltage: 120V-277V applications
- Input Frequency: 50/60Hz
- High power factor: .90
- LED: SMT 2835 chips
- Housing: NANO All Plastic Lens

## ORDERING MODEL

PATRIOT TUBE	TUBE TYPE	HOUSING	INTERNAL DRIVER	LENGTH	WATTAGE	INPUT TYPE	CCT
PT	T8	P	IL	T2=2FT T3=3FT T4=4FT	8W 10W 12W 15W	BC	3500K 4000K 5000K
Product Code: example							
PT -T8 PILT2 -12W -BC 3500K							



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NANO All Plastic Lens, UL Type A & B

## PRODUCT SPECIFICATION

Product No.	BAA/TAA Option*	Wattage (W)	Housing	Input Voltage	Color Temp (K)	Rated Lumens	Rated Efficacy (LPW)	CRI	Beam Angle	Rated Life (Hours)	Operating Temp. (°F)
<b>2FT NANO HYBRID LED TUBE</b>											
PT-T8PILT2-8W-BC	Yes	8	NANO PLASTIC	120V -277V, 50/60 Hz	3500K, 4000K, 5000K	1000	>120	>80	320°	100,000	-30°C to 40°C
PT-T8PILT2-10W-BC	Yes	10	NANO PLASTIC	120V -277V, 50/60 Hz	3500K, 4000K, 5000K	1300	>120	>80	320°	100,000	-30°C to 40°C
PT-T8PILT2-15W-BC	Yes	15	NANO PLASTIC	120V -277V, 50/60 Hz	3500K, 4000K, 5000K	2340	>120	>80	320°	100,000	-30°C to 40°C
<b>3FT NANO HYBRID LED TUBE</b>											
PT-T8PILT3-10W-BC	Yes	10	NANO PLASTIC	120V -277V, 50/60 Hz	3500K, 4000K, 5000K	1300	>120	>80	320°	100,000	-30°C to 40°C
<b>4FT NANO HYBRID LED TUBE</b>											
PT-T8PILT4-12W-BC	Yes	12	NANO PLASTIC	120V -277V, 50/60 Hz	3500K, 4000K, 5000K	1950	>120	>80	320°	100,000	-30°C to 40°C
PT-T8PILT4-15W-BC	Yes	15	NANO PLASTIC	120V -277V, 50/60 Hz	3500K, 4000K, 5000K	2340	>120	>80	320°	100,000	-30°C to 40°C

## PHYSICAL DATA

Product No.	Lens	Environment	Material Usage	Certification	DIMS & CASE QUANTITY	Weight/carton
PT-T8PILT2-8W-BC	NANO All Plastic	Dry & Damp	RoHS Compliant; no mercury	UL,NSF,DLC V4.2 and Lighting Facts	66×22×25 42PCS	0.040CBM//7.2KG
PT-T8PILT2-10W-BC	NANO All Plastic	Dry & Damp	RoHS Compliant; no mercury	UL,NSF,DLC V4.2 and Lighting Facts	66×22×25 42PCS	0.040CBM//7.2KG
PT-T8PILT2-15W-BC	NANO All Plastic	Dry & Damp	RoHS Compliant; no mercury	UL,NSF,DLC V4.2 and Lighting Facts	66×22×25 42PCS	0.040CBM//7.2KG
PT-T8PILT3-10W-BC	NANO All Plastic	Dry & Damp	RoHS Compliant; no mercury	UL,NSF,DLC V4.2 and Lighting Facts	95×22×25 42PCS	0.052CBM//8.5KG
PT-T8PILT4-12W-BC	NANO All Plastic	Dry & Damp	RoHS Compliant; no mercury	UL,NSF,DLC V4.2 and Lighting Facts	126×22×25 42PCS	0.069CBM//10.2KG
PT-T8PILT4-15W-BC	NANO All Plastic	Dry & Damp	RoHS Compliant; no mercury	UL,NSF,DLC V4.2 and Lighting Facts	126×22×25 42PCS	0.069CBM//10.2KG

## INSTALLATION



## INSTALLATION

### Direct Replacement Procedure:

1. Turn OFF power to the fixture at the breaker panel before installation.
2. Open the diffuser from the light fixture.
3. Remove the fluorescent tubes (A) and dispose of these properly as they may contain mercury.
4. Put LED tube (B) into the lighting fixture and ensure the pins are firmly seated in lamp holders.
5. Install the LED tubes and close the diffuser.
6. Switch ON power to the fixture at the breaker panel!

### Retrofit Procedure:

1. Turn OFF power to the fixture at the breaker panel before installation.
2. Open the diffuser from the light fixture.
3. Remove the fluorescent tubes and dispose of these properly as they may contain mercury.
4. Cut wires and remove (A).
5. Make new wire connection to the branch circuit as shown on diagram (B) below.
6. Replace the cover over the wiring channel.
7. Install the LED tubes and close the diffuser.
8. Switch ON power to the fixture at the breaker panel!

