



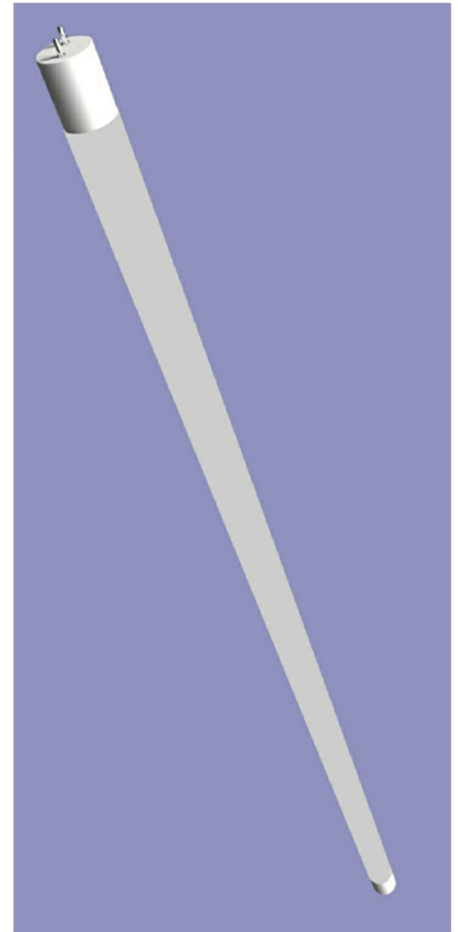
LED T8 Replacement Tubes

Dual Mode Operation

Operates on an electronic ballast
as well as line voltage single
side power

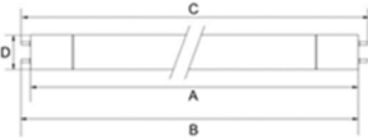
Specification Features:

Operate Voltage: Ballast Compatible (120-277 VAC 50/60 Hz)
Power: 15 watts Line Voltage/ 20.5 Ballast Compatible
Length: 48"
LED Type: SMD 2835
Lumens: 1800
Efficacy: 129 lm/watt
End Cap Option: non-rotating, G13
Lense Option: Frosted
Color Temperature: 3000k, 3500k, 4000k, 4500k, 5000k
CRI: Ra>82
Beam Angle: 220°
Driver Type: N/A
Tube Material: Glass, PC endcaps
Power Factor: > 0.9
Life Span: 50,000 hours
Operating Temperature: -40° F - -140°F
Warranty: 5 years
Certification: UL/cUL, DLC, Rohs, C-Tick,
Weight: 700 grams
Reports: LM 79, LM 80, EMC, FCC
Warranty: 5 years



NT-T8L-IDBH11

1 Dimensions & Cap

	Referenced standard	Dimension	Min	Max	Unit
	ANSI C78.81	A	/	1199.4	mm
		B	1204.0	1206.5	mm
		C	1210.8	1213.6	mm
		D	25.0	26.0	mm
Cap			G13		

2 Compatibility

Compatible with mainstream market Instant Start, Program Start and Rapid Start Ballast

3 Electrical Characteristics

Parameter	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
Input Voltage (Ballast)	U	Temperature: 25°C ± 1°C Humidity: ≤ 65% No air flow; 2 lamps driven by Philips-Advance ICN-2P32-N ¹⁾ (BF=0.88).	DLC 2.1	120-277	/	V
Line frequency (Ballast)	f			50/60	/	Hz
Power Factor	PF			0.90	-3%	/
Total Harmonic Distortion	THD			20%	+ 5%	/
Ignition Time	t			≤ 1.0		s
Lamp Voltage	V _{lamp}			233	/	V
Rated Power per lamp	P			14	± 10%	W
System power per lamp	P _{sym}			17	± 10%	W
Target replacement lamps	F25T8 (4ft), F28T8 (4ft), F30T8 (4ft), F32T8 (4ft)					

Note: 1) The parameters are ballast-dependent;

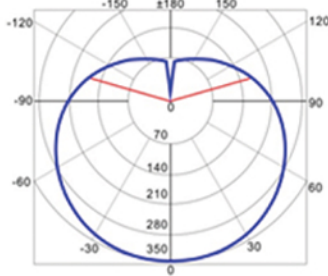
4 Photometrical Characteristics

Parameter	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
Lumen-3000K/3500K /4000K/4500K/5000K	Φ	Temperature: 25°C ± 1°C Humidity: ≤ 65% No air flow; 2 lamps driven by Philips-Advance ICN-2P32-N (BF=0.88).	DLC 2.1	1800	-10%	lm
Efficacy-3000K/3500K /4000K/4500K/5000K	η			129	-10%	lm/W

5 Color Characteristics

Parameter (Color)	Symbol	Testing condition and method	Referenced standard	Rated	Tolerance	Unit
CCT-3000K	CCT	Temperature: 25°C ± 1°C Humidity: ≤ 65% No air flow	ANSI C78.377	x=0.4338 y=0.4030		
CCT-3500K				x=0.4073 y=0.3917		
CCT-4000K				x=0.3818 y=0.3797		
CCT-4500K				x=0.3611 y=0.3658		
CCT-5000K				x=0.3447 y=0.3553		
CRI	R _a			82	-2	/
Color tolerance	/			≤ 5		SDCM

10 Light Distribution

	Testing condition and method	Referenced standard	CBCP Rated	Tolerance	Unit
	Temperature: 25°C ± 5°C Humidity: ≤ 65% No air flow	/	320	± 10%	cd

Additional Features: Traditionally styled high performance LED tube. Built from glass extrusions for a "No Sag In The Fixture" look and non-yellowing, appearance provide an unsurpassed 220 degree beam of light for excellent overlap in all types of fixtures. Designed to look like a traditional bulb. Instant Fit: Operates on existing ballast as well as line voltage. When the ballast fails modify fixture to single side power and lamp operates on 120-277 volts.