

# AL-T8 Series LED T8 Lamp Replacement – Dual-Ended Bypasses Existing Fluorescent Ballast

Project:	
Type:	
Catalog #:	

## STANDARD



The AL-T8 (dual-ended bypass, which is hot on both ends) Series of LED T8 lamps replace conventional fluorescent lamps in existing luminaires. Offering significant energy-efficiency and lifetime improvements over fluorescent lamps, DEBP Series lamps are installed by bypassing existing fluorescent ballasts, and hard-wiring tombstone lamp-holders directly to incoming AC power leads. Dual-ended bypass lamps eliminate the need to replace shunted tombstone lamp-holders in existing fluorescent luminaires with instant-start ballasts.

## FEATURES

- Available in 3500k (warm/neutral white), 4000k (neutral white) and 5000k (cool white) color temperatures (except AL-T8-8FT43W, which is available in 5000k only).\*
- Long-life LEDs provide up to 90,000 hours of operation with at least 70% of initial lumen output ( $L_{70}$ ).\*\*
- Models provide 1,100 to 5,500 lumens per lamp, and 121 to 129 lumens per watt (LPW).\*
- Uniform illumination with no visible LED pixilation.
- Universal 120-277 AC voltage (50-60Hz) is standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index  $\geq 80$ .
- Full glass housing inhibits yellowing and distortion.
- Easy installation in existing fluorescent luminaires. Bypass models connect directly to incoming AC power leads.

\* Contact factory for other color temperatures and lumen packages.

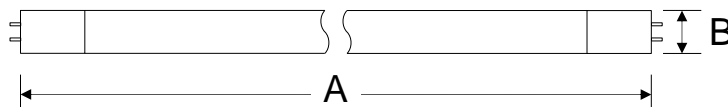
\*\*  $L_{70}$  hours are IES TM-21-11 calculated hours.



## WARRANTY & LISTINGS

- cULus listed for dry and damp locations in ambient temperatures from  $-20^{\circ}\text{C}$  to  $45^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$  to  $113^{\circ}\text{F}$ ).
- DLC standard approved.
- Complies with RoHS (Restriction on Hazardous Substances) requirements.
- Complies with FCC Part 15, Class B.
- 5-year warranty of all electronics and housing.
- AL-T8-8FT43W has standard PET (polyethylene terephthalate) polyester coating for shatter-proof performance.
- Other models are available as shatter-proof (NSF certified) by special order.

## DIMENSIONS



	A (Length)	B (Diameter)
2 Foot	23 $\frac{1}{8}$ "	1"
3 Foot	35 $\frac{1}{8}$ "	1"
4 Foot	47 $\frac{1}{8}$ "	1"
8 Foot	93 $\frac{1}{8}$ "	1"

Note: 8-foot lamps are single pin.

## ORDERING INFORMATION

Example: DEBP2FT9W-35K

Model	Watts	Color Temperature	Lumens	Lumens / Watt	DLC Listed	Case Quantity	Options
AL-T8-2FT11W	9	BBA = 3500k	1,100	122	Yes	25	BLEDEM-BP/DM-20 = Emergency battery backup
		CBA = 4000k	1,150	128	Yes	25	
		EBA = 5000k	1,150	128	Yes	25	
AL-T8-3FT12W	12	BBA = 3500k	1,500	125	No	25	
		CBA = 4000k	1,500	125	No	25	
		EBA = 5000k	1,500	125	No	25	
AL-T8-4FT14W	14	BBA = 3500k	1,700	121	Yes	25	
		CBA = 4000k	1,800	129	Yes	25	
		EBA = 5000k	1,800	129	Yes	25	
AL-T8-4FT17W	17	BBA = 3500k	2,100	124	Yes	25	
		CBA = 4000k	2,200	129	Yes	25	
		EBA = 5000k	2,200	129	Yes	25	
AL-T8-8FT43W	43	EBA = 5000k	5,500	128	Yes	10	

# AL-T8 Series

## LED T8 Lamp Replacement – Dual-Ended Bypass Existing Fluorescent Ballast

### ELECTRICAL DATA

Model	Color Temp.	CRI <sup>1</sup>	Lamp Lumens	Lamp Watts	Lumens/Watt	Input Voltage <sup>2</sup>	Input Current (A)			Power Factor	THD <sup>3</sup>	L <sub>70</sub> Hours <sup>4</sup>
							120V	240V	277V			
AL-T8-2FT11W-BBA	3500k	> 80	1,100	9	122	120-277	0.08	0.04	0.03	> 90%	< 20%	90,000
AL-T8-2FT11W-CBA	4000k	> 80	1,150	9	128	120-277	0.08	0.04	0.03	> 90%	< 20%	90,000
AL-T8-2FT11W-EBA	5000k	> 80	1,150	9	128	120-277	0.08	0.04	0.03	> 90%	< 20%	90,000
AL-T8-3FT12W-BBA	3500k	> 80	1,500	12	125	120-277	0.10	0.05	0.04	> 90%	< 20%	90,000
AL-T8-3FT12W-CBA	4000k	> 80	1,500	12	125	120-277	0.10	0.05	0.04	> 90%	< 20%	90,000
AL-T8-3FT12W-EBA	5000k	> 80	1,500	12	125	120-277	0.10	0.05	0.04	> 90%	< 20%	90,000
AL-T8-4FT14W-BBA-71	3500k	> 80	1,700	14	121	120-277	0.12	0.06	0.05	> 90%	< 20%	90,000
AL-T8-4FT14W-CBA-71	4000k	> 80	1,800	14	129	120-277	0.12	0.06	0.05	> 90%	< 20%	90,000
AL-T8-4FT14W-EBA-71	5000k	> 80	1,800	14	129	120-277	0.12	0.06	0.05	> 90%	< 20%	90,000
AL-T8-4FT17W-BBA-71	3500k	> 80	2,100	17	124	120-277	0.14	0.07	0.06	> 90%	< 20%	90,000
AL-T8-4FT17W-CBA-71	4000k	> 80	2,200	17	129	120-277	0.14	0.07	0.06	> 90%	< 20%	90,000
AL-T8-4FT17W-EBA-71	5000k	> 80	2,200	17	129	120-277	0.14	0.07	0.06	> 90%	< 20%	90,000
AL-T8-8FT43W-EBA-02	5000k	> 80	5,500	43	128	120-277	0.36	0.18	0.16	> 90%	< 20%	63,000

<sup>1</sup> Color rendering index.

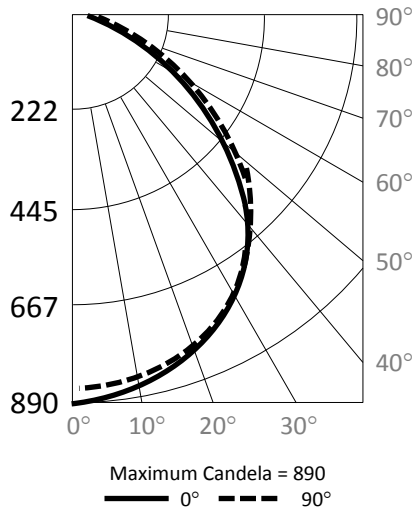
<sup>2</sup> All 50-60Hz.

<sup>3</sup> Total harmonic distortion.

<sup>4</sup> L<sub>70</sub> refers to the number of hours at which lumen output declines to 70% of the initial level. L<sub>70</sub> hours are IES TM-21-11 calculated hours.

### PHOTOMETRIC DATA

#### AL-T8-4FT17W-5K-BY(2,200 Lumens)



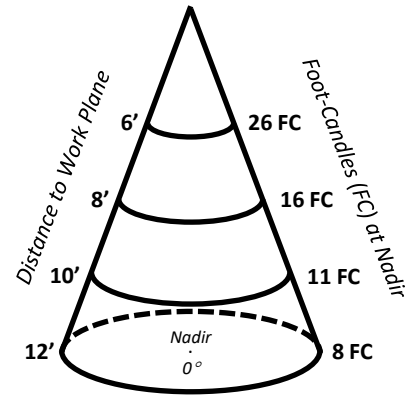
#### Candlepower Summary

	0°	90°
0°	890	890
10°	876	876
20°	829	831
30°	744	750
40°	613	636
50°	442	481
60°	272	280
70°	155	156
80°	77	90
90°	2	2

#### Zonal Lumen Summary

Zone	Lumens	% Fixture
0° – 10°	84	3.8%
0° – 20°	325	14.8%
0° – 30°	687	31.2%
0° – 40°	1,113	50.6%
0° – 50°	1,526	69.4%
0° – 60°	1,846	83.9%
0° – 70°	2,044	92.9%
0° – 80°	2,159	98.2%
0° – 90°	2,200	100.0%
90° – 180°	0	0.0%
0° – 180°	2,200	100.0%

#### Cone of Light



### INSTALLATION

