

DEBP Series

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

Project:	
Type:	
Catalog #:	

STANDARD



The DEBP (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 DEBP8FT43W, 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 ≥ 80 .
- Full glass housing inhibits yellowing and distortion.
- Easy installation in existing fluorescent luminaires. Bypass models connect directly to incoming AC power leads.

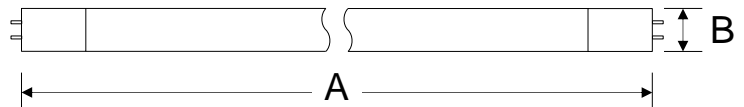
* Contact factory for other color temperatures and lumen packages.
** L_{70} hours are IES TM-21-11 calculated hours.



WARRANTY & LISTINGS

- cULus listed for dry and damp locations in ambient temperatures from -20°C to 45°C (-4°F to 113°F).
- DLC standard approved (except 3- & 8-foot models, which are not eligible under the DLC linear replacement lamps category).
- Complies with RoHS (Restriction on Hazardous Substances) requirements.
- Complies with FCC Part 15, Class B.
- 5-year warranty of all electronics and housing.
- DEBP8FT43W 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 1/8"	1"
3 Foot	35 1/8"	1"
4 Foot	47 1/8"	1"
8 Foot	93 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
DEBP2FT9W	9	35K = 3500k	1,100	122	Yes	25	BLEDEM-BP/DM-20 = Emergency battery backup
		4K = 4000k	1,150	128	Yes	25	
		5K = 5000k	1,150	128	Yes	25	
DEBP3FT12W	12	35K = 3500k	1,500	125	No	25	
		4K = 4000k	1,500	125	No	25	
		5K = 5000k	1,500	125	No	25	
DEBP4FT14W	14	35K = 3500k	1,700	121	Yes	25	
		4K = 4000k	1,800	129	Yes	25	
		5K = 5000k	1,800	129	Yes	25	
DEBP4FT17W	17	35K = 3500k	2,100	124	Yes	25	
		4K = 4000k	2,200	129	Yes	25	
		5K = 5000k	2,200	129	Yes	25	
DEBP8FT43W	43	5K = 5000k	5,500	128	No	10	

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ELECTRICAL DATA

Model	Color Temperature	CRI ¹	Lamp Lumens	Lamp Watts	Lumens/Watt	Input Voltage ²	Input Current (A)			Power Factor	THD ³	L ₇₀ Hours ⁴
							120V	240V	277V			
DEBP2FT9W35K	3500k	> 80	1,100	9	122	120-277	0.08	0.04	0.03	> 90%	< 20%	90,000
DEBP2FT9W4K	4000k	> 80	1,150	9	128	120-277	0.08	0.04	0.03	> 90%	< 20%	90,000
DEBP2FT9W5K	5000k	> 80	1,150	9	128	120-277	0.08	0.04	0.03	> 90%	< 20%	90,000
DEBP3FT12W35K	3500k	> 80	1,500	12	125	120-277	0.10	0.05	0.04	> 90%	< 20%	90,000
DEBP3FT12W4K	4000k	> 80	1,500	12	125	120-277	0.10	0.05	0.04	> 90%	< 20%	90,000
DEBP3FT12W5K	5000k	> 80	1,500	12	125	120-277	0.10	0.05	0.04	> 90%	< 20%	90,000
DEBP4FT14W35K	3500k	> 80	1,700	14	121	120-277	0.12	0.06	0.05	> 90%	< 20%	90,000
DEBP4FT14W4K	4000k	> 80	1,800	14	129	120-277	0.12	0.06	0.05	> 90%	< 20%	90,000
DEBP4FT14W5K	5000k	> 80	1,800	14	129	120-277	0.12	0.06	0.05	> 90%	< 20%	90,000
DEBP4FT17W35K	3500k	> 80	2,100	17	124	120-277	0.14	0.07	0.06	> 90%	< 20%	90,000
DEBP4FT17W4K	4000k	> 80	2,200	17	129	120-277	0.14	0.07	0.06	> 90%	< 20%	90,000
DEBP4FT17W5K	5000k	> 80	2,200	17	129	120-277	0.14	0.07	0.06	> 90%	< 20%	90,000
DEBP8FT43W5k	5000k	> 80	5,500	43	128	120-277	0.36	0.18	0.16	> 90%	< 20%	63,000

¹ Color rendering index.

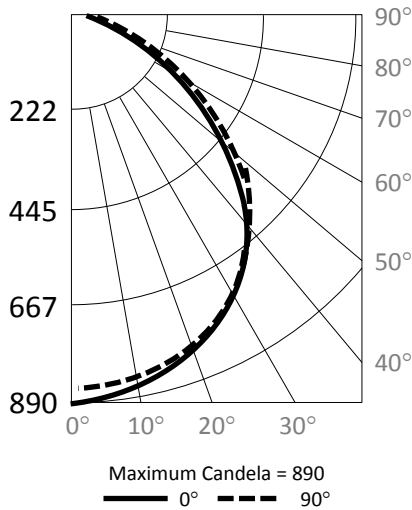
² All 50-60Hz.

³ Total harmonic distortion.

⁴ L₇₀ refers to the number of hours at which lumen output declines to 70% of the initial level. L₇₀ hours are IES TM-21-11 calculated hours.

PHOTOMETRIC DATA

DEBP4FT17W5K (2,200 Lumens)



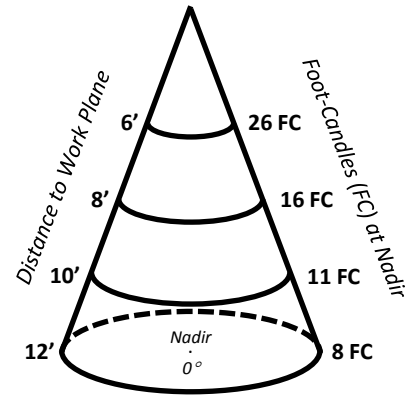
Candlepower Summary

	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

