

DR Series LED T8 Lamp Replacement

Direct Replacement of Fluorescent Lamp

Project:	
Type:	
Catalog #:	

STANDARD



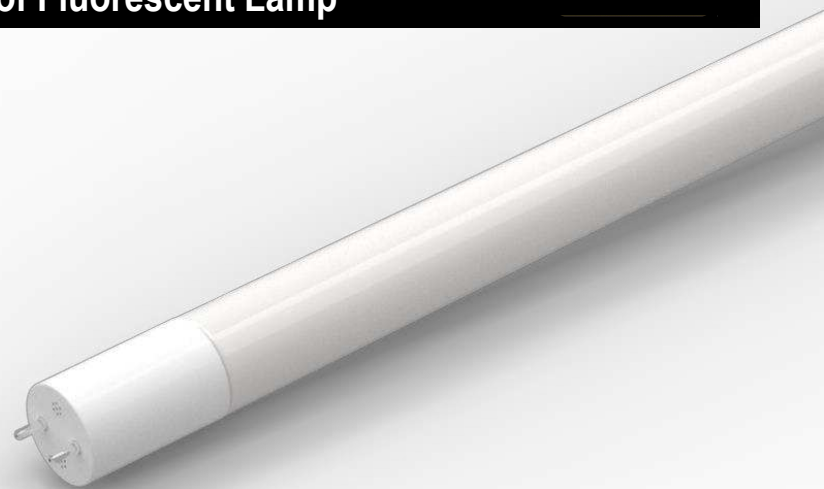
The DR (direct replacement) Series of LED T8 lamps replace conventional fluorescent lamps in existing luminaires. Offering significant improvements over fluorescent lamps in both energy-efficiency and lifetime, DR Series lamps offer the convenience of plug-and-play installation by using existing fluorescent ballasts and lamp-holders.

FEATURES

- Available in 4000k (neutral white) and 5000k (cool white) color temperatures.*
- Long-life LEDs provide at least 55,000 hours of operation with at least 70% of initial lumen output (L_{70}).**
- Provides 1,150-2,200 lumens per lamp, and 100-113 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. Direct replacement models using existing fluorescent ballasts and lamp-holders.

* Contact factory for other color temperatures and lumen packages.

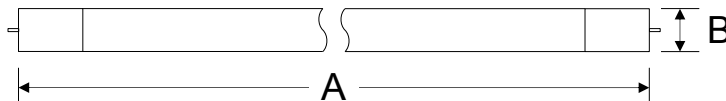
** L_{70} hours are IES TM-21-11 calculated hours.



WARRANTY & LISTINGS

- cULus listed for dry and damp locations in ambient temperatures from -20°C to 45°C (-4°F to 113°F).
- DLC approved (except 3-foot models).
- Complies with FCC Part 15, Class B.
- 5-year warranty of all electronics and housing.
- Shatter-proof models (NSF certified) available 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"

ORDERING INFORMATION

Example: DR-1150LM-2FT-9W-4K

Model	Lamp Watts*	Color Temperature	Lamps Lumens	Lumens / Watt	Options
DR-1150LM-2FT-9W-4K	11.0	4K = 4000k	1,150	105	BAL1400ACTD = Emergency battery backup (1,400 lumens)
DR-1150LM-2FT-9W-5K	11.0	5K = 5000k	1,150	105	
DR-1450LM-3FT-11W-4K	14.0	4K = 4000k	1,400	100	BALT5-1300ACTD = Emergency battery backup (1,300 lumens, low-profile)
DR-1450LM-3FT-11W-5K	14.0	5K = 5000k	1,400	100	
DR-2200LM-4FT-17W-4K	19.5	4K = 4000k	2,200	113	
DR-2200LM-4FT-17W-5K	19.5	5K = 5000k	2,200	113	

* Actual lamp watts are determined by the existing ballast installed in the luminaire.

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ELECTRICAL DATA

Model	Color Temp.	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			
DR-1150LM-2FT-9W-4K	4000k	≥80	1,150	11.0	105	120-277	0.09	0.05	0.04	>90%	<20%	57,000
DR-1150LM-2FT-9W-5K	5000k	≥80	1,150	11.0	105	120-277	0.09	0.05	0.04	>90%	<20%	57,000
DR-1450LM-3FT-11W-4K	4000k	>80	1,400	14.0	100	120-277	0.12	0.06	0.05	>90%	<20%	55,000
DR-1450LM-3FT-11W-5K	5000k	>80	1,400	14.0	100	120-277	0.12	0.06	0.05	>90%	<20%	55,000
DR-2200LM-4FT-17W-4K	4000k	>80	2,200	19.5	113	120-277	0.16	0.08	0.07	>90%	<20%	58,000
DR-2200LM-4FT-17W-5K	5000k	>80	2,200	19.5	113	120-277	0.16	0.08	0.07	>90%	<20%	58,000

¹ Color rendering index.

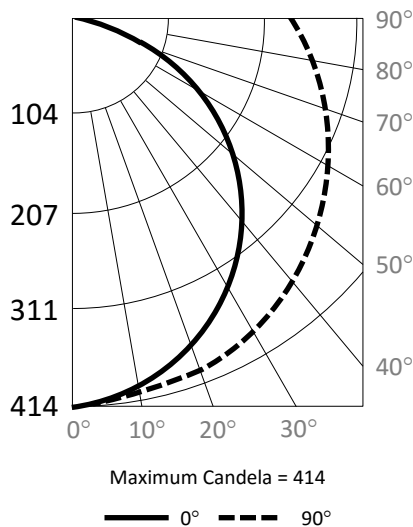
² All 50-60Hz.

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

DR-2200LM-4FT-17W-4K (2,200 Lumens)



Candlepower Summary

	0°	90°
0°	414	414
10°	410	410
20°	383	399
30°	342	383
40°	289	363
50°	229	339
60°	164	314
70°	99	288
80°	39	261
90°	0	233

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 10°	38	1.7%
0° - 20°	146	6.6%
0° - 30°	312	14.2%
0° - 40°	519	23.6%
0° - 50°	745	33.9%
0° - 60°	973	44.2%
0° - 70°	1,186	53.9%
0° - 80°	1,376	62.5%
0° - 90°	1,537	69.9%
90° - 180°	663	30.1%
0° - 180°	2,200	100.0%

Cone of Light

