

MJM Series LED T8 Lamp Replacement – Direct Replacement (Plug & Play) of Fluorescent Lamp



Project:	
Type:	
Catalog #:	

STANDARD



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

FEATURES

- Available in 3000k (warm white), 3500k, (warm/neutral white), 4000k (neutral white) and 5000k (cool white) color temperatures.*
- Long-life LEDs provide up to 90,000 hours of operation with at least 70% of initial lumen output (L_{70}).**
- Models provide 1,150 lumens to 2,200 lumens per lamp, and 100 to 122 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.

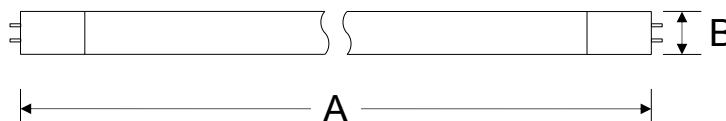
** L_{70} hours are IES TM-21-11 calculated hours.



WARRANTY & LISTINGS

- cULus listed for dry and damp locations in ambient temperatures from -20°C to 45°C (-4°F to 113°F).
- DLC standard approved (except 3-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.
- 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: MJM4FT11W-35K

Model*	Watts**	Color Temperature	Lumens	Lumens / Watt	DLC Listed	Options
MJM4FT11W	15	35K = 3500k 4K = 4000k 5K = 5000k	1,700 1,800 1,800	113 120 120	Yes Yes Yes	BAL1400ACTD = Emergency battery backup (1,400 lumens)
MJM4FT15W	18	35K = 3500k 5K = 5000k	2,100 2,200	117 122	Yes Yes	BALT5-1300ACTD = Emergency battery backup (1,300 lumens, low-profile)
MJM-1150LM-2FT-9 W	11	3K = 3000k 35K = 3500k	1,197 1,150	109 105	Yes Yes	
MJM-1450LM-3FT-11W		4K = 4000k 5K = 5000k	1,150 1,150	105 105	Yes Yes	
	14	3K = 3000k 35K = 3500k 4K = 4000k 5K = 5000k	1,400 1,400 1,400 1,400	100 100 100 100	No No No No	

* Case quantities are 25.

** The wattage levels shown above are based on testing with fluorescent ballasts with 88% ballast factor. 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			
MJM4FT11W35K	3500k	> 80	1,700	15	113	120-277	0.13	0.06	0.05	> 90%	< 20%	90,000
MJM4FT11W4K	4000k	> 80	1,800	15	120	120-277	0.13	0.06	0.05	> 90%	< 20%	90,000
MJM4FT11W5K	5000k	> 80	1,800	15	120	120-277	0.13	0.06	0.05	> 90%	< 20%	90,000
MJM4FT15W35K	3500k	> 80	2,100	18	117	120-277	0.15	0.08	0.06	> 90%	< 20%	90,000
MJM4FT15W5K	5000k	> 80	2,200	18	122	120-277	0.15	0.08	0.06	> 90%	< 20%	90,000
MJM1150LM-2FT-9W-3K	3000k	> 80	1,197	11	109	120-277	0.09	0.05	0.04	> 90%	< 20%	63,000
MJM-1150LM-2FT-9W-35K	3500k	> 80	1,150	11	105	120-277	0.09	0.05	0.04	> 90%	< 20%	63,000
MJM-1150LM-2FT-9W-4K	4000k	> 80	1,150	11	105	120-277	0.09	0.05	0.04	> 90%	< 20%	63,000
MJM-1150LM-2FT-9W-5K	5000k	> 80	1,150	11	105	120-277	0.09	0.05	0.04	> 90%	< 20%	63,000
MJM-1450LM-3FT-11W-3K	3000k	> 80	1,400	14	100	120-277	0.12	0.06	0.05	> 90%	< 20%	90,000
MJM-1450LM-3FT-11W-35K	3500k	> 80	1,400	14	100	120-277	0.12	0.06	0.05	> 90%	< 20%	90,000
MJM-1450LM-3FT-11W-4K	4000k	> 80	1,400	14	100	120-277	0.12	0.06	0.05	> 90%	< 20%	90,000
MJM-1450LM-3FT-11W-5K	5000k	> 80	1,400	14	100	120-277	0.12	0.06	0.05	> 90%	< 20%	90,000

¹ Color rendering index.

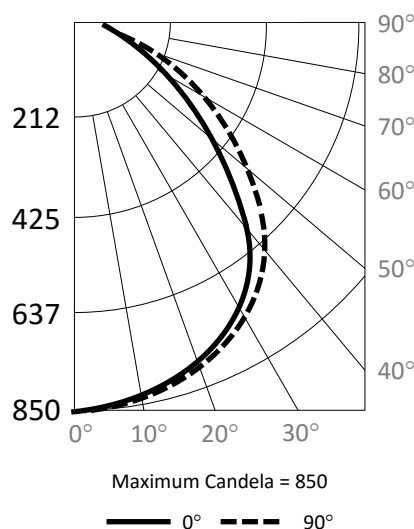
² All 50-60Hz.

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

MJM4FT15W5K (2,200 Lumens)



Candlepower Summary

	0°	90°
0°	850	850
10°	838	841
20°	794	807
30°	714	742
40°	594	644
50°	436	490
60°	276	280
70°	159	153
80°	79	77
90°	3	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° – 10°	81	3.7%
0° – 20°	312	14.2%
0° – 30°	663	30.1%
0° – 40°	1,083	49.2%
0° – 50°	1,500	68.2%
0° – 60°	1,832	83.3%
0° – 70°	2,040	92.7%
0° – 80°	2,159	98.1%
0° – 90°	2,200	100.0%
90° – 180°	0	0.0%
0° – 180°	2,200	100.0%

Cone of Light

