

# MJC Series LED T8 Lamp Replacement Dual Mode (Bypass Ballast + Direct Replacement)



Project:	
Type:	
Catalog #:	

## STANDARD



The MJC (dual mode) Series of LED T8 lamps replace conventional fluorescent lamps in existing luminaires. Offering significant improvements over fluorescent lamps in both energy-efficiency and lifetime, MJC Series lamps offer the flexibility of both bypass and direct replacement, plug-and-play lamp replacements. With MJC Series lamp replacements, existing ballasts can initially be used in the plug-and-play mode. When existing ballasts reach the end of their useful lives, MJC Series lamps can then be hard-wired to incoming AC power leads.

## FEATURES

- Available in 4000k (neutral white) and 5000k (cool white) color temperatures.\*
- Long-life LEDs provide 56,000 hours of operation with at least 70% of initial lumen output ( $L_{70}$ ).<sup>\*\*</sup>
- Provides 2,200 lumens per lamp, and 107 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. Dual mode models can function as either (1) bypass models, which connect directly to incoming AC power leads, or (2) direct replacement models, which use existing fluorescent ballasts and lamp-holders.

**Caution:** When operating in the bypass mode, use only unshunted G13 (medium bi-pin) tombstone lamp-holders (sockets), and wire only a single end of the lamp to incoming power.

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

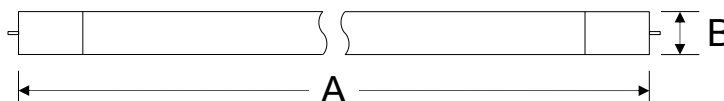
<sup>\*\*</sup>  $L_{70}$  hours are IES TM-21-11 calculated hours.



## 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.
- 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"
3 Foot	35 "	1"
4 Foot	47 "	1"

## ORDERING INFORMATION

Example: DM-2200LM-4FT-18W-4K

Model	Lamp Watts <sup>1</sup>	Color Temp.	Lamps Lumens	Lumens / Watt	Options
MJC-2200LM-4FT-18W-4K	20.5	4K = 4000k	2,200	107	MJCT8-SKT-UNSHUNTED <sup>2</sup> = Unshunted socket (single unit of G13 tombstone socket)
MJC-2200LM-4FT-18W-5K	20.5	5K = 5000k	2,200	107	MJC8-SKTKIT-UNSHUNTED <sup>2</sup> = Unshunted socket kit (includes four G13 tombstone sockets connected by 18AWG wire to an AC push-in connector)
					BLEDEM-BP/DM-20 <sup>2</sup> = Emergency battery backup
					BAL1400ACTD <sup>3</sup> = Emergency battery backup (1,400 lumens)
					BALT5-1300ACTD <sup>3</sup> = Emergency battery backup (1,300 lumens, low-profile)

<sup>1</sup> Actual lamp watts are determined by the existing ballast installed in the luminaire (direct replacement mode only).

<sup>2</sup> For use with lamps in bypass mode only.

<sup>3</sup> For use with lamps indirect replacement mode only.

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Specifications and dimensions subject to change without notice.

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## 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			
MJC-2200LM-4FT-18W-4K	4000k	≥80	2,200	20.5	107	120-277	0.17	0.09	0.07	>90%	<20%	56,000
MJC-2200LM-4FT-18W-5K	5000k	≥80	2,200	20.5	107	120-277	0.17	0.09	0.07	>90%	<20%	56,000

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

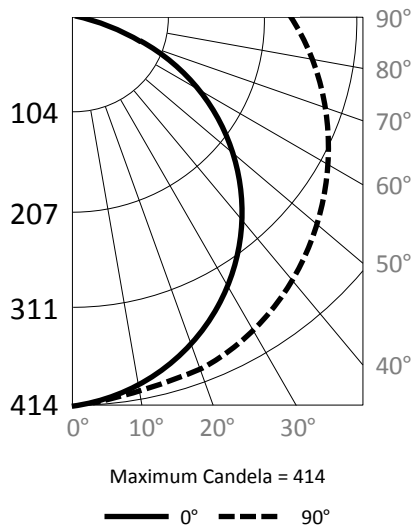
<sup>2</sup> All 50-60Hz.

<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

MJC-2200LM-4FT-18W-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%

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