

MJPSeries LED T8 Lamp Replacement Bypass Existing Fluorescent Ballast



Project:	
Type:	
Catalog #:	

STANDARD



The MJP (bypass) Series of LED T8 lamps replace conventional fluorescent lamps in existing luminaires. Offering significant improvements over fluorescent lamps in both energy-efficiency and lifetime, MJP Series lamps are installed by bypassing existing fluorescent ballasts, and hard-wiring tombstone lamp-holders directly to incoming AC power leads.

FEATURES

- Available in 4000k (neutral white) and 5000k (cool white) color temperatures.*
- Long-life LEDs provide at least 54,000 hours of operation with at least 70% of initial lumen output (L_{70}).**
- High-efficacy models provide 1,800-2,200 lumens per lamp, and 133-144 lumens per watt (LPW).*
- Standard-efficacy models provide 1,150-2,200 lumens per lamp, and 122-129 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.

Caution: 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.

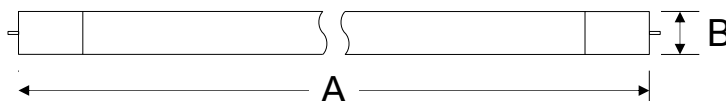
** L_{70} hours are IES TM-21-11 calculated hours.



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"
3 Foot	35 "	1"
4 Foot	47 "	1"

ORDERING INFORMATION

Model	Lamp Watts	Color Temperature	Lamps Lumens	Lumens / Watt	Options
HIGH EFFICACY					
MJP-1800LM-4FT-12.5W-4K	12.5	4K = 4000k	1,800	144	MJPT8-SKT-UNSHUNTED = Unshunted socket (single unit of G13 tombstone socket)
MJP-1800LM-4FT-12.5W-5K	12.5	5K = 5000k	1,800	144	
MJP-2200LM-4FT-16.5W-4K	16.5	4K = 4000k	2,200	133	MJPT8-SKTKIT-UNSHUNTED = Unshunted socket kit (includes four G13 tombstone sockets connected by 18AWG wire to an AC push-in connector)
MJP-2200LM-4FT-16.5W-5K	16.5	5K = 5000k	2,200	133	
STANDARD EFFICACY					
MJP-1150LM-2FT-9W-4K	9.0	4K = 4000k	1,150	128	BLEDEM-BP/DM-20 = Emergency battery backup
MJP-1150LM-2FT-9W-5K	9.0	5K = 5000k	1,150	128	
MJP-1450LM-3FT-12W-4K	12.0	4K = 4000k	1,580	129	
MJP-1450LM-3FT-12W-5K	12.0	5K = 5000k	1,580	129	
MJP-2200LM-4FT-18W-4K	18.0	4K = 4000k	2,200	122	
MJP-2200LM-4FT-18W-5K	18.0	5K = 5000k	2,200	122	

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			
HIGH EFFICACY												
MJP-1800LM-4FT-12.5W-4K	4000k	>80	1,800	12.5	144	120-277	0.10	0.05	0.05	>90%	<20%	58,000
MJP-1800LM-4FT-12.5W-5K	5000k	>80	1,800	12.5	144	120-277	0.10	0.05	0.05	>90%	<20%	58,000
MJP-2200LM-4FT-16.5W-4K	4000k	>80	2,200	16.5	133	120-277	0.14	0.07	0.06	>90%	<20%	54,000
MJP-2200LM-4FT-16.5W-5K	5000k	>80	2,200	16.5	133	120-277	0.14	0.07	0.06	>90%	<20%	54,000
STANDARD EFFICACY												
MJP-1150LM-2FT-9W-4K	4000k	≥80	1,150	9.0	128	120-277	0.08	0.04	0.03	>90%	<20%	57,000
MJP-1150LM-2FT-9W-5K	5000k	≥80	1,150	9.0	128	120-277	0.08	0.04	0.03	>90%	<20%	57,000
MJP-1450LM-3FT-12W-4K	4000k	>80	1,580	12.0	129	120-277	0.10	0.05	0.04	>90%	<20%	56,000
MJP-1450LM-3FT-12W-5K	5000k	>80	1,580	12.0	129	120-277	0.10	0.05	0.04	>90%	<20%	56,000
MJP-2200LM-4FT-18W-4K	4000k	>80	2,200	18.0	122	120-277	0.15	0.08	0.06	>90%	<20%	56,000
MJP-2200LM-4FT-18W-5K	5000k	>80	2,200	18.0	122	120-277	0.15	0.08	0.06	>90%	<20%	56,000

¹ Color rendering index.

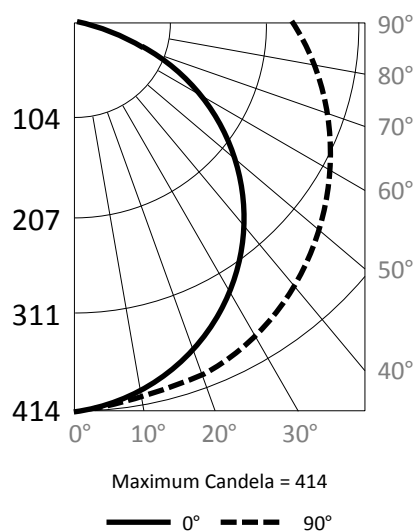
² All 50-60Hz.

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

MJP-2200LM-4FT-16.5W-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

