



LED T8 Tube Lights: White \ 2-Pin \ 2 Ft \ Clear Lens

LED24T8SM-144-XxW-001W



Long-Life, Energy-Efficient Drop-In Replacement for Standard 24" Fluorescent Tubes in 2-Pin G13 Base

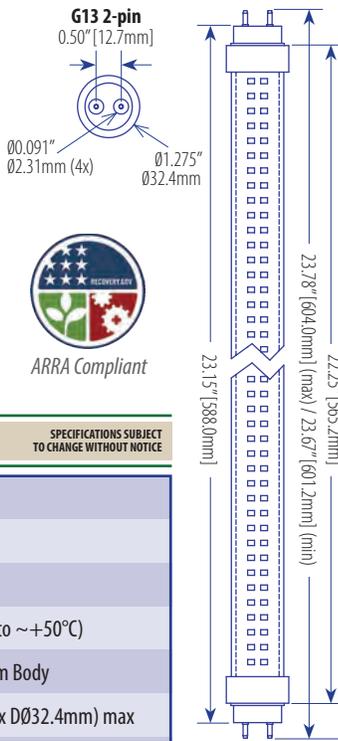
Operates on 90-to-290VAC — Consumes 9 Watts — 3000K/4000K/5000K White Colors – Premium SMD LEDs

FEATURES

- Lamp Warranty:** 3 Years
- Low Power Consumption:** Only 9 Watts
- Wide Voltage Range:** 90-290VAC
- Long Life:** White LEDs Last up to 50,000+ Hours of Continuous Operation
- Wide-Angle:** 110° Beam Pattern
- Solid Construction:** UV-Stabilized Polycarbonate Lens, Aluminum Body
- Even Lighting:** High Intensity / No Halation
- No Buzzing, No Flickering**
- Easy Installation:** Direct Retrofit into Most Fluorescent Fixtures Using Existing G13 Sockets [with line voltage bypassing ballast/transformer/ starter directly to fluorescent sockets*]
- High CRI Enhances All Colors**
- Made in the USA** from Imported Parts – Meets Buy American Requirements within the ARRA Program
- Safety Assurance:** ETL Listed
- Eco-Friendly:** ROHS Compliant



Ideal for Use with Alternate or Renewable Energy Resources – Solar & Wind Power



APPLICATIONS

- Office Lighting
- General & Street Sign Backlighting
- Task Lighting
- Under Cabinets/ Counters
- Display Cases
- Coolers, Freezers
- Interior Design Uses
- Retail Store Displays

BENEFITS

- Major Power Savings:** Compared to Fluorescents, Close to 50% Less Power Usage Reduces Energy Costs
- Environment-Friendly:** Eliminates the Mercury Hazard Present in the Fluorescent Tubes
- Lower-Maintenance:** Lowers Costs by Reducing Re-lamp Frequency, Especially in Difficult-to-Reach Areas
- Cool Operation:** Remains Cool to the Touch
- Flexible Ambient Temperatures:** Greater Performance in Cold Freezer-Type Applications Where Fluorescents Have Higher Failure Rates
- Solid State:** High-Shock & Vibration-Resistant Body with Polycarbonate Lens Eliminates Hazard of Glass Tube Breakage or Additional Expense of Light-Robbing Plastic Tube Guards – A Major Problem in the Food Industry
- No Radiation:** No UV or IR, No RFI/EMI/HD Problems in Hospital Radiology Areas, Sensitive Instruments, Etc.

CUSTOM OPTIONS

[For qualified applications & large-quantity OEM orders]

- Viewing Angles** Available: 20°, 40° and 60°
- Other Colors and White Color Temperatures**

* Use of the ETL-listed T8 LED lamps in conjunction with bypassing the ballast does not effect the overall UL or ETL status of the fixture, since the fixture is covered by the listing of the T8 lamp and its installation instructions.

SPECIFICATIONS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

PART NO.	LED24T8SM-144-XxW-001W
Input Voltage	90-290VAC [Tested @120VAC]
Ambient Humidity	≤95%
Ambient Temperature	~-22°F to ~+122°F (~-30°C to ~+50°C)
Lamp Shell	Polycarbonate Lens / Aluminum Body
Dimensions	L23.78" x DØ1.275" (L604mm x DØ32.4mm) max
Weight	0.575 lb / 9.2 oz / 261 g

PART NUMBER	INPUT CURRENT	ENERGY USED (typ)	EFFICACY	POWER FACTOR	TOTAL LUMENS	MAXIMUM CANDELA	CRI	COLOR TEMP.	EMITTED COLOR	VIEWING ANGLE*
LED24T8SM-144-XIW-001W	73 mA	7~9 Watts	58 lm/W	0.99	514 lm	191 cd	79	2750K~3250K	Warm White	105°
LED24T8SM-144-XWW-001W	75 mA	7~9 Watts	82 lm/W	0.92	684 lm	242 cd	74	3800K~4300K	Natural White	110°
LED24T8SM-144-XPW-001W	75 mA	7~9 Watts	89 lm/W	0.99	803 lm	289 cd	76	5000K~5600K	Pure White	110°

(*Full Beam Width @ 50% Intensity)

LEDTRONICS®
Creating the Future of Light Since 1983™



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LOG # 318 / Rev 09-2012

Check LEDTRONICS.COM for latest data.
Printed material may be outdated.

LED24T8SM-144-XIW-001W

Luminaire Photometric Report

Filename: LED24T8SM-144-XIW-001W
 Manufacturer: LEDTRONICS
 Luminaire: CLEAR LENS, 8.8W, 120VAC
 Luminaire Cat: LED24T8SM-144-XIW-001W
 Lamp: LUMEN RATING: 514.2Lms
 Lamp Output: 1 lamp(s), rated Lumens/lamp: 514.2
 Max Candela: 191.0 at Horizontal: 67.5°, Vertical: 5°
 Luminous Opening: Point
 Test: 2-8-11

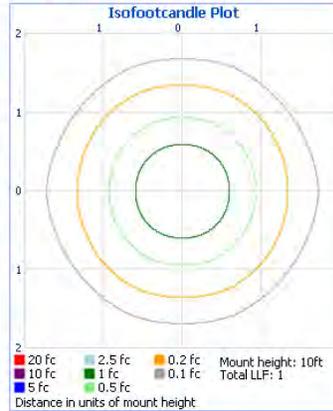
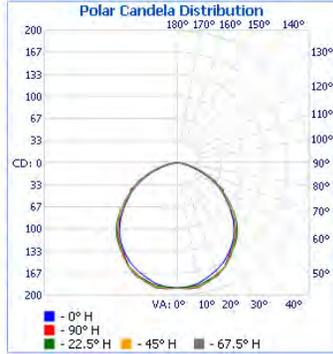
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	148.7	28.9%	28.9%
0-40	242.4	47.1%	47.1%
0-60	418.8	81.4%	81.4%
60-90	95.4	18.6%	18.6%
70-100	37.3	7.3%	7.3%
90-120	0	0%	0%
0-90	514.2	100%	100%
90-180	0	0%	0%
0-180	514.2	100%	100%

Illuminance at a Distance

Center Beam FC	Beam Width	
1.7ft	68.04 fc	4.4ft 4.3ft
3.3ft	17.01 fc	8.9ft 8.7ft
5.0ft	7.56 fc	13.3ft 13.0ft
6.7ft	4.25 fc	17.8ft 17.4ft
8.3ft	2.72 fc	22.2ft 21.7ft
10.0ft	1.89 fc	26.6ft 26.1ft

Vert. Spread: 106.2° Horiz. Spread: 105.0°



LED24T8SM-144-XWW-001W

Luminaire Photometric Report

Filename: LED24T8SM-144-XWW-001W
 Manufacturer: LEDTRONICS
 Luminaire: CLEAR LENS, 8.3W, 120VAC
 Luminaire Cat: LED24T8SM-144-XWW-001W
 Lamp: LUMEN RATING: 683.5Lms
 Lamp Output: 1 lamp(s), rated lamp lumens: 683.5
 Max Candela: 242.0 at Horizontal: 67.5°, Vertical: 15°
 Luminous Opening: Point
 Test: 7-21-10

Zonal Lumen Summary

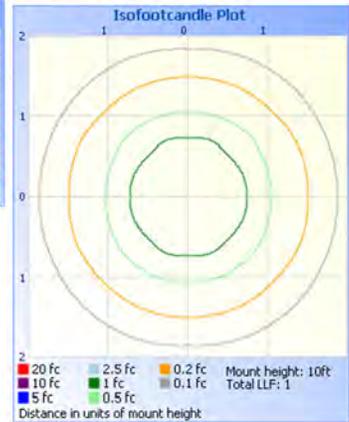
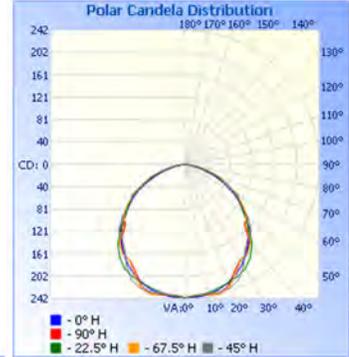
Zone	Lumens	% Lamp	% Luminaire
0-30	191.0	27.9%	27.9%
0-40	313.4	45.8%	45.8%
0-60	549.2	80.4%	80.4%
60-90	134.3	19.6%	19.6%
0-90	683.5	100%	100%
0-180	683.5	100%	100%

Total Efficiency: 100%

Illuminance at a Distance

Center Beam FC	Beam Width	
1.7ft	86.40 fc	4.6ft 4.9ft
3.3ft	21.60 fc	9.2ft 9.8ft
5.0ft	9.60 fc	13.8ft 14.6ft
6.7ft	5.40 fc	18.4ft 19.5ft
8.3ft	3.46 fc	23.0ft 24.4ft
10.0ft	2.40 fc	27.6ft 29.3ft

Vert. Spread: 108.2° Horiz. Spread: 111.3°



LED24T8SM-144-XPW-001W

Luminaire Photometric Report

Filename: LED24T8SM-144-XPW-001W
 Manufacturer: LEDTRONICS
 Luminaire: CLEAR LENS, 9W, 120VAC
 Luminaire Cat: LED24T8SM-144-XPW-001W
 Lamp: LUMEN RATING: 803.1Lms
 Lamp Output: 1 lamp(s), rated Lumens/lamp: 803.1
 Max Candela: 289.0 at Horizontal: 0°, Vertical: 5°
 Luminous Opening: Point
 Test: 2-8-11

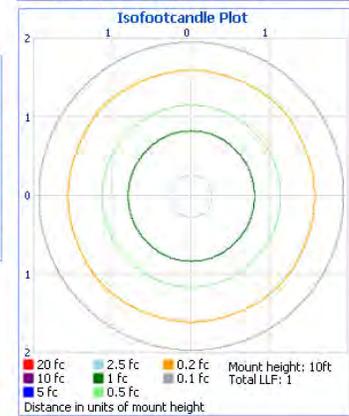
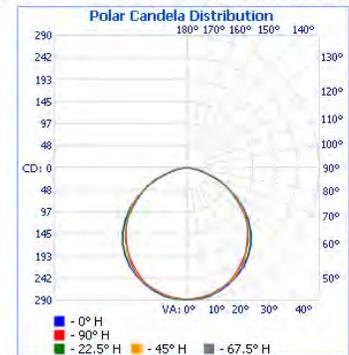
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	224.3	27.9%	27.9%
0-40	367.5	45.8%	45.8%
0-60	646.2	80.5%	80.5%
60-90	156.9	19.5%	19.5%
70-100	62.9	7.8%	7.8%
90-120	0	0%	0%
0-90	803.1	100%	100%
90-180	0	0%	0%
0-180	803.1	100%	100%

Illuminance at a Distance

Center Beam FC	Beam Width	
1.7ft	103.68 fc	5.0ft 4.6ft
3.3ft	25.92 fc	10.0ft 9.3ft
5.0ft	11.52 fc	14.9ft 13.9ft
6.7ft	6.48 fc	19.9ft 18.5ft
8.3ft	4.15 fc	24.9ft 23.1ft
10.0ft	2.88 fc	29.9ft 27.8ft

Vert. Spread: 112.4° Horiz. Spread: 108.5°



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Office illuminated with LEDtronics LED fluorescent-replacement tube lights

