



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

LED24T8SM-144-XxW-001WF



www.LEDtronics.com

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Check LEDtronics.com for latest data. Printed material may be outdated.

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

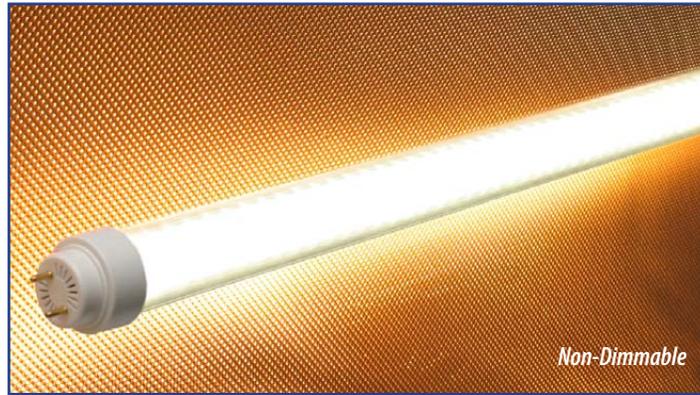
Operates on 90-to-290VAC — Consumes Only 9 Watts — 3000K/4000K/5000K White — Premium SMD LEDs

FEATURES

- **Lamp Warranty:** 3 Years
- **Low Power Consumption:** Only 9 Watts
- **Wide Input Voltage Range:** 90-290VAC Accommodates N. American or European Currents
- **Long Operating Life:** White LED Lasts up to 50,000+ Hours
- **Wide-Angle Beam Pattern** of 125°
- **Solid Construction:** UV-Stabilized Polycarbonate Lens, Aluminum Body
- **Easy Installation:** Direct Retrofit into Most Fluorescent Fixtures Using Existing Sockets [with line voltage bypassing ballast/transformer/ starter directly to fluorescent sockets.*]
- **Even Lighting:** High Intensity / No Halation
- **No Buzzing, No Flickering**
- **High CRI** Enhances All Colors
- **Safety Assurance:** ETL Listed
- **Eco-Friendly:** ROHS Compliant



* 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.



APPLICATIONS

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

LED T8 tube lamps are patent protected in the United States. LEDtronics, Inc., is a licensed manufacturer under this patent. White LED technology is patent protected in the United States. LEDtronics, Inc., white LED products are covered under these patents.

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

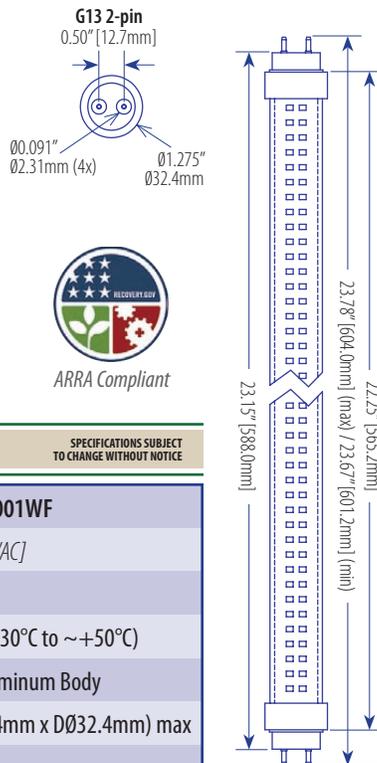
BENEFITS

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

CUSTOM OPTIONS

[For qualified applications & large-quantity OEM orders]

- Other Colors / White Color Temperatures
- Other Lengths



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SPECIFICATIONS

PART NO.	LED24T8SM-144-XxW-001WF
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 (w/o pins)	L23.78" x DØ1.275" (L604mm x DØ32.4mm) max
Weight	0.55 lb / 8.8 oz / 249.5 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-001WF	73 mA	7~9 Watts	53 lm/W	0.99	468 lm	152 cd	79	2750K~3250K	Warm White	105°×120°
LED24T8SM-144-XWW-001WF	76 mA	7~9 Watts	61 lm/W	0.99	545 lm	186 cd	74	3800K~4300K	Natural White	105°×120°
LED24T8SM-144-XPW-001WF	72 mA	7~9 Watts	75 lm/W	0.99	638 lm	200 cd	75	5000K~5600K	Pure White	105°×125°

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Creating the Future of Light Since 1983™

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LED24T8SM-144-XIW-001WF

Luminaire Photometric Report

Filename: LED24T8SM-144-XIW-001WF
 Manufacturer: LEDTRONICS
 Luminaire: FROSTED LENS, 8.8W, 120VAC
 Luminaire Cat: LED24T8SM-144-XIW-001WF
 Lamp: LUMEN RATING: 468.1Lms
 Lamp Output: 1 lamp(s), rated Lumens/lamp: 468.1
 Max Candela: 152.0 at Horizontal: 0°, Vertical: 0°
 Luminous Opening: Point
 Test: 2-8-11

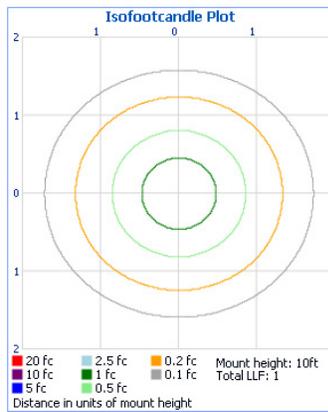
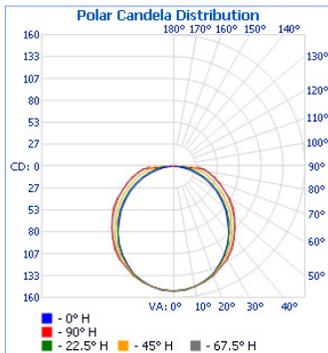
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	117.3	25.1%	25.1%
0-40	191.7	41%	41%
0-60	340.6	72.8%	72.8%
60-90	127.5	27.2%	27.2%
70-100	68.6	14.7%	14.7%
90-120	0	0%	0%
0-90	468.1	100%	100%
90-180	0	0%	0%
0-180	468.1	100%	100%

Illuminance at a Distance

Center Beam FC	Beam Width
1.7ft	54.72 fc 4.4ft 6.0ft
3.3ft	13.68 fc 8.8ft 12.1ft
5.0ft	6.08 fc 13.2ft 18.1ft
6.7ft	3.42 fc 17.6ft 24.2ft
8.3ft	2.19 fc 22.1ft 30.2ft
10.0ft	1.52 fc 26.5ft 36.3ft

Vert. Spread: 105.8° Horiz. Spread: 122.3°



LED24T8SM-144-XWW-001WF

Luminaire Photometric Report

Filename: LED24T8SM-144-XWW-001WF
 Manufacturer: LEDTRONICS
 Luminaire: FROSTED LENS, 8.9W, 120VAC
 Luminaire Cat: LED24T8SM-144-XWW-001WF
 Lamp: LUMEN RATING: 545.1Lms
 Lamp Output: 1 lamp(s), rated Lumens/lamp: 545.1
 Max Candela: 186.0 at Horizontal: 0°, Vertical: 0°
 Luminous Opening: Point
 Test: 2-8-11

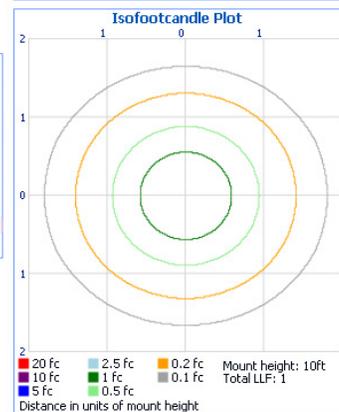
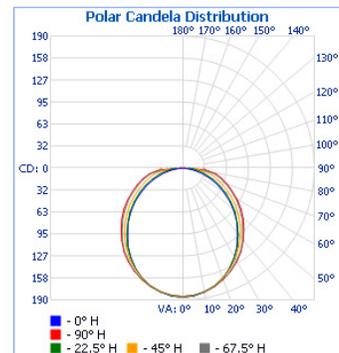
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	141.5	26%	26%
0-40	230.0	42.2%	42.2%
0-60	403.7	74.1%	74.1%
60-90	141.4	25.9%	25.9%
70-100	74.2	13.6%	13.6%
90-120	0	0%	0%
0-90	545.1	100%	100%
90-180	0	0%	0%
0-180	545.1	100%	100%

Illuminance at a Distance

Center Beam FC	Beam Width
1.7ft	66.96 fc 4.2ft 5.6ft
3.3ft	16.74 fc 8.4ft 11.2ft
5.0ft	7.44 fc 12.5ft 16.8ft
6.7ft	4.19 fc 16.7ft 22.3ft
8.3ft	2.68 fc 20.9ft 27.9ft
10.0ft	1.86 fc 25.1ft 33.5ft

Vert. Spread: 102.9° Horiz. Spread: 118.3°



LED24T8SM-144-XPW-001WF

Luminaire Photometric Report

Filename: LED24T8SM-144-XPW-001WF
 Manufacturer: LEDTRONICS
 Luminaire: FROSTED LENS, 8.5W, 120VAC
 Luminaire Cat: LED24T8SM-144-XPW-001WF
 Lamp: LUMEN RATING: 638.2Lms
 Lamp Output: 1 lamp(s), rated lamp lumens: 638.2
 Max Candela: 200.0 at Horizontal: 0, Vertical: 0
 Luminous Opening: Point
 Test: 3-31-10

Flood Summary

Field (10%):	Efficiency	Lumens	Horizontal Spread	Vertical Spread
100%	99.9%	637.6	n/a	166
50%	67.5%	430.6	125.3	104.5
Total:	100%	638.2		

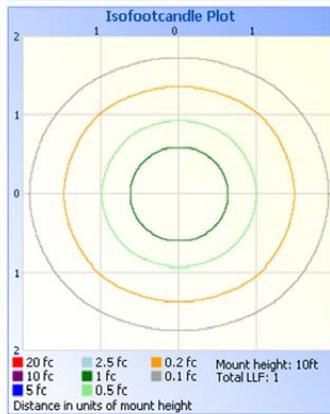
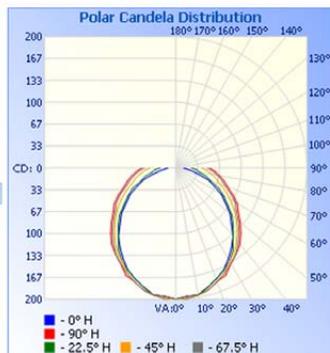
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	152.8	23.9%	24%
0-40	249.7	39.1%	39.2%
0-60	445.2	69.8%	69.9%
60-90	191.6	30%	30.1%
0-90	636.8	99.8%	100%
0-180	636.8	99.8%	100%

Illuminance at a Distance

Center Beam FC	Beam Width
1.7ft	72.00 fc 4.3ft 6.4ft
3.3ft	18.00 fc 8.6ft 12.9ft
5.0ft	8.00 fc 12.9ft 19.3ft
6.7ft	4.50 fc 17.2ft 25.8ft
8.3ft	2.88 fc 21.5ft 32.2ft
10.0ft	2.00 fc 25.9ft 38.7ft

Vert. Spread: 104.5° Horiz. Spread: 125.3°



Office illuminated with LEDtronics fluorescent-replacement LED tube lights