



LED T8 Tube Lights: White \ 2-Pin \ 4 Ft \ Frosted Lens

LED48T8SM-276-XxW-001WF

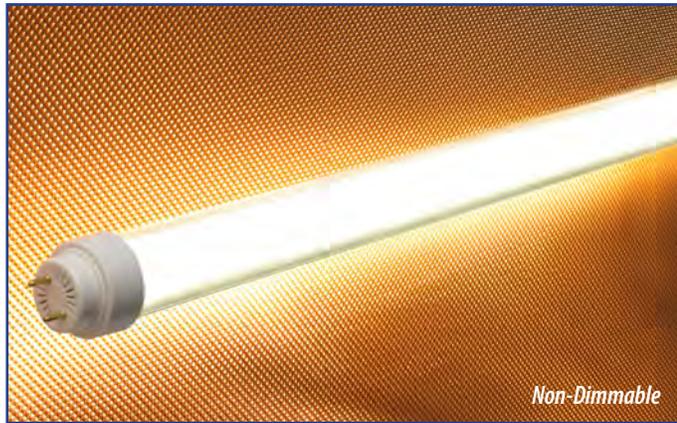


Long-Life, Energy-Efficient Drop-In Replacement for Standard 48" Fluorescent Tubes in Bi-Pin G13 Base

Operates on 90-to-290VAC — Consumes Only 17 Watts — 3000K-5000K White Colors — Premium SMD LEDs

FEATURES

- **Lamp Warranty:** 3 Years
- **Low Power Consumption:** Only 17 Watts, Equivalent to 32W Fluorescent Tubes
- **Wide Input Voltage Range:** 90-290VAC Accommodates North American or European Currents
- **Long Operating Life:** White LED Lasts up to 50,000+ Hours
- **Wide-Angle View:** ~110° Beam Pattern
- **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
- **High CRI Enhances All Colors**
- **Safety Assurance:** ETL Listed
- **Eco-Friendly:** ROHS Compliant



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

BENEFITS

- **Major Power Savings:** Up to 50% less power usage compared to fluorescents
- **Environment-Friendly:** Eliminates the mercury hazard present in fluorescent tubes; recyclable
- **Lower-Maintenance:** Lowers costs by reducing re-lamp frequency, esp. in difficult-to-reach areas
- **No Buzzing, No Flickering**
- **Cool Operation:** Remains cool to the touch
- **Flexible Ambient Temperatures:** Greater performance in cold freezer-type applications where fluorescent tubes have higher failure rates
- **Solid State:** High-shock & high-vibration-resistant body with polycarbonate lens eliminates hazard of glass tube breakage or additional expense of light-robbing plastic tube guards, as in food industry
- **No Radiation:** No UV or IR, no RFI/EMI/HD problems related to fluorescents in hospital radiology areas, sensitive instruments...

CUSTOM OPTIONS

[For qualified applications & large-quantity OEM orders]

- **Other Colors, White Color Temperatures**
- **Other Viewing Angles:** 20°, 40°, 60°
- **Adjustable End Caps to Allow Tube to Twist**
- **Other Lengths Available**

APPLICATIONS

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

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

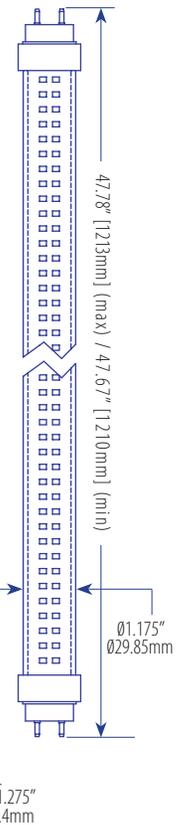
SPECIFICATIONS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

PART NO.	LED48T8SM-276-XxW-001WF
Input Voltage	90-290VAC [Tested @ 120VAC]
Input Current	0.157 A
Energy Used	17 Watts <i>typ.</i> / 19 Watts <i>max.</i>
Power Factor	0.99
Ambient Humidity	≤95%
Ambient Temperature	~-22°F to ~+122°F (~-30°C to ~+50°C)
Lamp Shell	Polycarbonate Lens / Aluminum Body
Dimensions	L47.78" x DØ1.175" (L1195mm x DØ29.85mm)
Weight	1.54 lb / 24.64 oz / 698.5 g

PART NUMBER	EFFICACY	MAXIMUM CANDELA	TOTAL LUMENS	CRI	COLOR TEMP.	COLOR EMITTED	VIEWING ANGLE**
LED48T8SM-276-XIW-001WF	63 lm/W	344 cd	1093 lm	79	2750K~3250K	Warm White	110°x135°
LED48T8SM-276-XW-001WF	65 lm/W	376 cd	1212 lm	74	3800K~4300K	Natural White	110°x135°
LED48T8SM-276-XPW-001WF	69 lm/W	400 cd	1289 lm	75	5000K~5600K	Pure White	105°x130°

* 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. ** Full Beam Width @ 50% Intensity



www.LEDtronic.com

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

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Creating the Future of Light Since 1983™



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LED48T8SM-276-XIW-001WF

Luminaire Photometric Report

Filename: LED48T8SM-276-XIW-001WF
 Manufacturer: LEDTRONICS -
 Luminaire: FROSTED LENS, 17.4W, 120VAC
 Luminaire Cat: LED48T8SM-276-XIW-001WF
 Lamp: LUMEN RATING: 1092.6Lms.
 Lamp Output: 1 lamp(s), rated lamp lumens: 1092.6
 Max Candela: 344.0 at Horizontal: 0, Vertical: 0
 Luminous Opening: Point
 Test: 5-6-10

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99.9%	1,091.0	n/a	166.7
Beam (50%):	67.6%	739.0	126	103.3
Total:	100%	1,092.6		

Zonal Lumen Summary

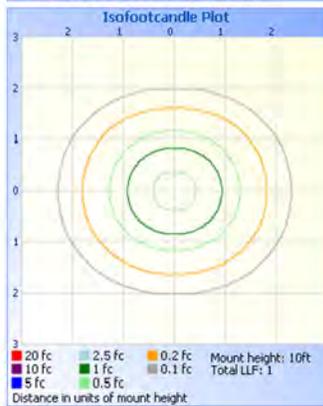
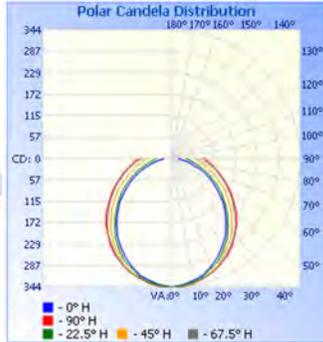
Zone	Lumens	% Lamp	% Luminaire
0-30	265.7	24.3%	24.4%
0-40	434.3	39.7%	39.8%
0-60	772.6	70.7%	70.8%
60-90	318.5	29.2%	29.2%
0-90	1,091.1	99.9%	100%
90-180	0	0%	0%
0-180	1,091.1	99.9%	100%

Total Efficiency: 99.9%

Illuminance at a Distance

Center Beam FC	Beam Width
1.7R 123.84 fc	4.2ft 6.5ft
3.3R 30.96 fc	8.4ft 13.1ft
5.0R 13.76 fc	12.6ft 19.6ft
6.7R 7.74 fc	16.8ft 26.2ft
8.3R 4.95 fc	21.1ft 32.7ft
10.0R 3.44 fc	25.3ft 39.3ft

Vert. Spread: 103.3° Horiz. Spread: 126.0°



LED48T8SM-276-XWW-001WF

Luminaire Photometric Report

Filename: LED48T8SM-276-XWW-001WF
 Manufacturer: LEDTRONICS -
 Luminaire: FROSTED LENS, 18.6W, 120VAC
 Luminaire Cat: LED48T8SM-276-XWW-001WF
 Lamp: LUMEN RATING: 1212.4Lms.
 Lamp Output: 1 lamp(s), rated lamp lumens: 1212.4
 Max Candela: 376.0 at Horizontal: 22.5, Vertical: 0
 Luminous Opening: Point
 Test: 4-30-10

Zonal Lumen Summary

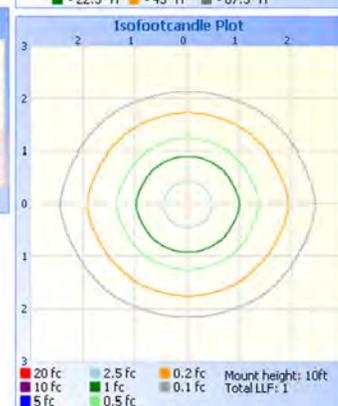
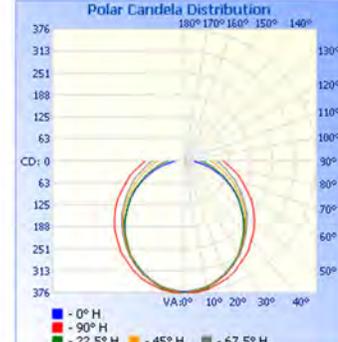
Zone	Lumens	% Lamp	% Luminaire
0-30	287.0	23.7%	23.7%
0-40	469.5	38.7%	38.7%
0-60	843.2	69.6%	69.6%
60-90	369.1	30.4%	30.4%
0-90	1,212.4	100%	100%
0-180	1,212.4	100%	100%

Total Efficiency: 100%

Illuminance at a Distance

Center Beam FC	Beam Width
1.7R 133.92 fc	4.7ft 7.9ft
3.3R 33.48 fc	9.5ft 15.9ft
5.0R 14.88 fc	14.2ft 23.8ft
6.7R 8.37 fc	18.9ft 31.8ft
8.3R 5.36 fc	23.7ft 39.7ft
10.0R 3.72 fc	28.4ft 47.6ft

Vert. Spread: 109.7° Horiz. Spread: 134.4°



LED48T8SM-276-XPW-001WF

Luminaire Photometric Report

Filename: LED48T8SM-276-XPW-001WF
 Manufacturer: LEDTRONICS -
 Luminaire: FROSTED LENS, 18.6W, 120VAC
 Luminaire Cat: LED48T8SM-276-XPW-001WF
 Lamp: LUMEN RATING: 1288.7Lms.
 Lamp Output: 1 lamp(s), rated lamp lumens: 1288.7
 Max Candela: 400.0 at Horizontal: 45, Vertical: 0
 Luminous Opening: Point
 Test: 4-2-10

Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	99.9%	1,287.2	n/a	169.1
Beam (50%):	68.4%	882.0	128.2	104.8
Total:	100%	1,288.7		

Zonal Lumen Summary

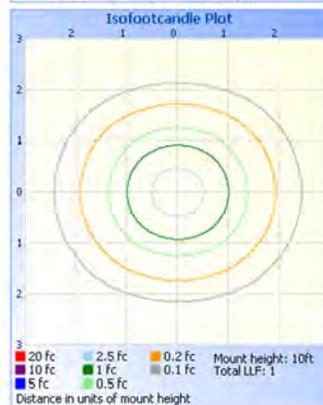
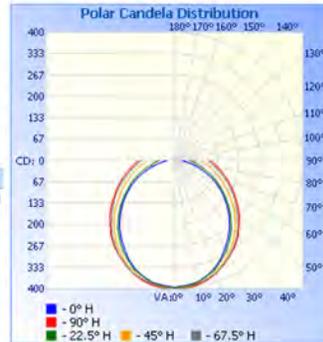
Zone	Lumens	% Lamp	% Luminaire
0-30	307.5	23.9%	23.9%
0-40	502.9	39%	39.1%
0-60	898.2	69.7%	69.8%
60-90	387.9	30.1%	30.2%
0-90	1,286.2	99.8%	100%
0-180	1,286.2	99.8%	100%

Total Efficiency: 99.8%

Illuminance at a Distance

Center Beam FC	Beam Width
1.7R 142.56 fc	4.3ft 6.9ft
3.3R 35.64 fc	8.6ft 13.7ft
5.0R 15.84 fc	13.0ft 20.6ft
6.7R 8.91 fc	17.3ft 27.4ft
8.3R 5.70 fc	21.6ft 34.3ft
10.0R 3.96 fc	25.9ft 41.2ft

Vert. Spread: 104.8° Horiz. Spread: 128.2°



ARRA Compliant



Office illuminated with LEDtronics fluorescent-replacement LED tube lights