



LED T8/T10 Tube Lights: White\2-Pin\4 Ft\Clear Lens

LED48T8SM-276-xxW-001W



Long-Life, Energy-Efficient Drop-In 48-Inch Fluorescent Replacement Tubes in 2-Pin G13 Base

Operates on 90-to-290VAC — Consumes 17 Watts — 3000K/4100K/5000K/5500K White — Premium SMD LEDs

FEATURES

- **Lamp Warranty:** 3 Years
- **Low Power Consumption:** Only 17 Watts / Equivalent to 32W Fluorescent
- **Wide Voltage Range:** 90-290VAC
- **Long Life:** White LEDs Last up to 50,000+ Hours of Continuous Operation
- **Wide-Angle Beam Pattern**
- **Solid Construction:** UV-Stabilized Polycarbonate Lens, Aluminum Body
- **High CRI Enhances All Colors**
- **Easy Installation:** Direct Retrofit into Most Fluorescent Fixtures Using Existing G13 Sockets [with line voltage bypassing ballast/transformer/ starter directly to fluorescent sockets*]
- **Even Lighting:** High Intensity / No Halation
- **Full-Strength Light-up:** No Buzzing, No Flickering
- **Safety Assurance:** ETL Listed
- **Eco-Friendly:** ROHS Compliant



APPLICATIONS

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

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

BENEFITS

- **Major Energy Savings** Compared to Fluorescents – Almost 50% Less Power Usage Reduces Energy Costs
- **No Radiation:** No UV or IR, No RFI/EMI/HD Problems Related to Fluorescents in Hospital Radiology Areas, Sensitive Instruments...
- **Environment-Friendly:** Eliminates the Mercury Hazard Present in the Fluorescent Tubes
- **Cool Operation:** Remains Cool to the Touch – Minimizes A/C Load
- **Flexible Ambient Temperatures:** Greater Performance in Cold Freezer-Type Applications Where Fluorescents 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 Plastic Tube Guards—An Issue in Food Industry
- **Lower-Maintenance:** Lowers Costs by Reducing Re-lamp Frequency, Especially in Difficult-to-Reach Areas

CUSTOM OPTIONS
[For qualified applications & large-quantity orders]

- **Adjustable End Caps** on Tubes with Bi-pins
- **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.



ARRA Compliant

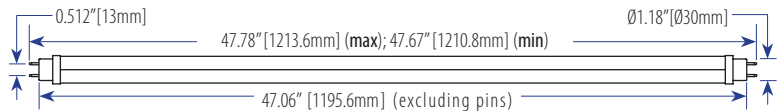


LED T8 tube lamps are patent protected in the United States. LEDtronics, Inc., is a licensed manufacturer under this patent. White LED technology is patent protected in the United States. LEDtronics, Inc., white LED products are covered under these patents.

SPECIFICATIONS

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

PART NO.	LED48T8SM-276-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	L47.78" x DØ1.175" (L1195mm x DØ29.85mm)
Weight	1.187~1.275 lb / 538~578 g



PART NUMBER	INPUT CURRENT	ENERGY USED (min/max)	EFFICACY	POWER FACTOR	TOTAL LUMENS	MAXIMUM CANDELA	CRI	COLOR TEMP.	EMITTED COLOR	VIEWING ANGLE*
LED48T8SM-276-XIW-001W	0.160 A	17~19 Watts	64 lm/W	0.99	1180 lm	428 cd	79	2800K~3200K	Warm White	112°x107°
LED48T8SM-276-XWW-001W	0.154 A	17~19 Watts	78 lm/W	0.99	1417 lm	533 cd	74	3800K~4300K	Natural White	111°x102°
LED48T8SM-276-XPW-001W	0.148 A	17~19 Watts	81 lm/W	0.99	1426 lm	493 cd	75	5000K~5600K	Pure White	115°x110°
LED48T8SM-276-HPW-001W	0.148 A	17~19 Watts	104 lm/W	0.98	1830 lm	573 cd	80	5000K~6000K	Pure White	116°x123°

(*Full Beam Width @ 50% Intensity)

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Creating the Future of Light Since 1983™

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

LED48T8SM-276-XIW-001W

Luminaire Photometric Report

Filename: LED48T8SM-276-XIW-001W
 Manufacturer: LEDTRONICS
 Luminaire: CLEAR LENS, 18.3W, 120VAC
 Luminaire Cat: LED48T8SM-276-XIW-001W
 Lamp: LUMEN RATING: 1179.5Lms
 Lamp Output: 1 lamp(s), rated lumens/lamp: 1179.5
 Max Candela: 428.0 at Horizontal: 90°, Vertical: 0°
 Luminous Opening: Point
 Test: 2-25-11

Flood Summary

Field (10%):	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Beam (50%):	97.9%	1,154.3	160.1	156.6
Total:	100%	1,179.6	107.4	111.5

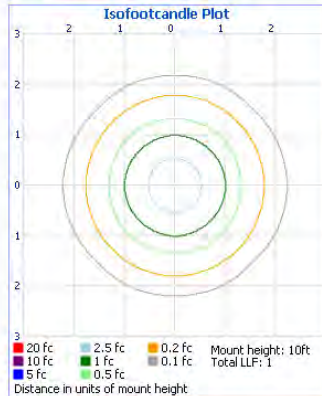
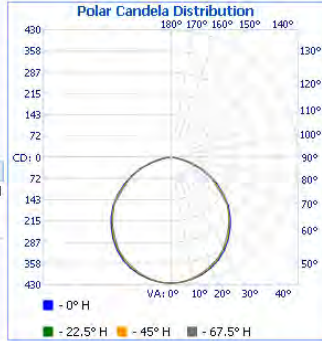
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	327.7	27.8%	27.8%
0-40	535.7	45.4%	45.4%
0-60	940.3	79.7%	79.7%
60-90	239.3	20.3%	20.3%
70-100	98.7	8.4%	8.4%
90-120	0	0%	0%
0-90	1,179.5	100%	100%
90-180	0	0%	0%
0-180	1,179.5	100%	100%

Illuminance at a Distance

Center Beam FC	Beam Width
1.7R	153.00 fc 4.9ft 4.5ft
3.3R	38.25 fc 9.8ft 9.1ft
5.0R	17.00 fc 14.7ft 13.6ft
6.7R	9.56 fc 19.6ft 18.1ft
8.3R	6.12 fc 24.5ft 22.7ft
10.0R	4.25 fc 29.4ft 27.2ft

Vert. Spread: 111.5° Horiz. Spread: 107.4°



LED48T8SM-276-XWW-001W

Luminaire Photometric Report

Filename: LED48T8SM-276-XWW-001W
 Manufacturer: LEDTRONICS
 Luminaire: CLEAR LENS, 16.5W, 120VAC
 Luminaire Cat: LED48T8SM-276-XWW-001W
 Lamp: LUMEN RATING: 1422.0Lms
 Lamp Output: 1 lamp(s), rated lamp lumens: 1422
 Max Candela: 484.0 at Horizontal: 0, Vertical: 0
 Luminous Opening: Point
 Test: 7-20-10

Zonal Lumen Summary

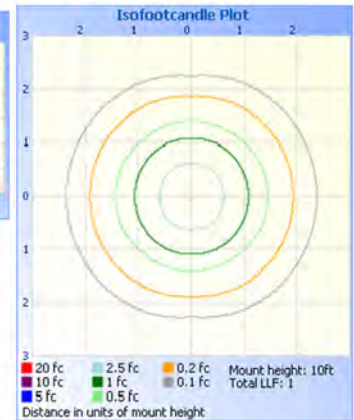
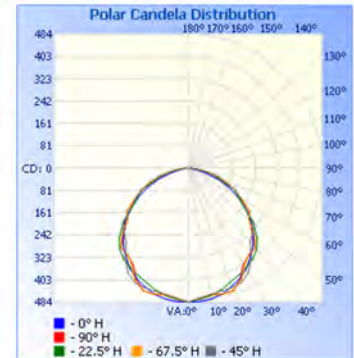
Zone	Lumens	% Lamp	% Luminaire
0-30	380.0	26.7%	26.7%
0-40	626.1	44%	44%
0-60	1,116.0	78.5%	78.5%
60-90	306.0	21.5%	21.5%
0-90	1,422.0	100%	100%
0-180	1,422.0	100%	100%

Total Efficiency: 100%

Illuminance at a Distance

Center Beam FC	Beam Width
1.7R	174.24 fc 5.0ft 5.3ft
3.3R	43.56 fc 9.9ft 10.7ft
5.0R	19.36 fc 14.9ft 16.0ft
6.7R	10.89 fc 19.8ft 21.3ft
8.3R	6.97 fc 24.8ft 26.7ft
10.0R	4.84 fc 29.7ft 32.0ft

Vert. Spread: 112.2° Horiz. Spread: 116.0°



LED48T8SM-276-HPW-001W

Luminaire Photometric Report

Filename: LED48T8SM-276-HPW-001W
 Manufacturer: LEDTRONICS
 Luminaire: CLEAR LENS, 16.9W, 120VAC
 Luminaire Cat: LED48T8SM-276-HPW-001W
 Lamp: LUMEN RATING: 2032.3Lms
 Lamp Output: 1 lamp(s), rated lamp lumens: 2032.3
 Max Candela: 646.0 at Horizontal: 90, Vertical: 0
 Luminous Opening: Point
 Test: 5-15-12

Zonal Lumen Summary

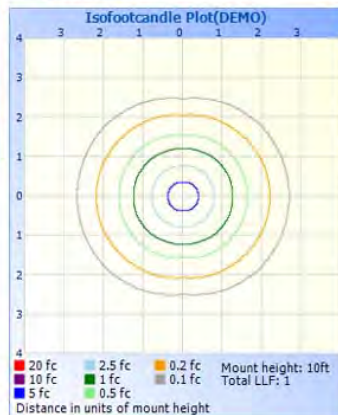
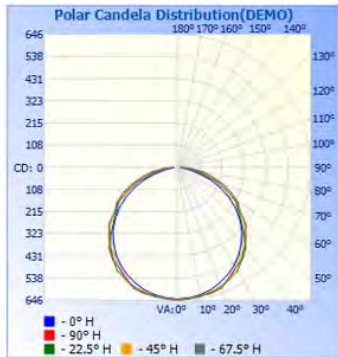
Zone	Lumens	% Lamp	% Luminaire
0-30	512.5	25.2%	25.2%
0-40	849.6	41.8%	41.8%
0-60	1,537.3	75.6%	75.6%
0-90	2,032.3	100%	100%

Total Efficiency: 100%

Illuminance at a Distance

Center Beam FC	Beam Width
1.7R	230.40 fc 5.1ft 5.9ft
3.3R	57.60 fc 10.3ft 11.8ft
5.0R	25.60 fc 15.4ft 17.8ft
6.7R	14.40 fc 20.5ft 23.7ft
8.3R	9.22 fc 25.7ft 29.6ft
10.0R	6.40 fc 30.8ft 35.5ft

Vert. Spread: 114.0° Horiz. Spread: 121.2°



LED48T8SM-276-XPW-001W

Luminaire Photometric Report

Filename: LED48T8SM-276-XPW-001W
 Manufacturer: LEDTRONICS
 Luminaire: CLEAR LENS, 17.6W, 120VAC
 Luminaire Cat: LED48T8SM-276-XPW-001W
 Lamp: LUMEN RATING: 1426.0Lms
 Lamp Output: 1 lamp(s), rated lumens/lamp: 1426
 Max Candela: 493.0 at Horizontal: 67.5°, Vertical: 0°
 Luminous Opening: Point
 Test: 2-8-11

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Luminaire
0-30	384.4	27%	27%
0-40	634.6	44.5%	44.5%
0-60	1,127.3	79.1%	79.1%
60-90	298.7	20.9%	20.9%
70-100	125.5	8.8%	8.8%
90-120	0	0%	0%
0-90	1,426.0	100%	100%
90-180	0	0%	0%
0-180	1,426.0	100%	100%

Illuminance at a Distance

Center Beam FC	Beam Width
1.7R	176.40 fc 5.2ft 4.8ft
3.3R	44.10 fc 10.5ft 9.5ft
5.0R	19.60 fc 15.7ft 14.3ft
6.7R	11.03 fc 21.0ft 19.0ft
8.3R	7.06 fc 26.2ft 23.8ft
10.0R	4.90 fc 31.5ft 28.6ft

Vert. Spread: 115.1° Horiz. Spread: 110.0°

