

T8DM

1500mm Linear LED Lamp

Product Description

Easy to install, the Cree® LED T8DM lamp fits into existing linear T8 fluorescent fixtures, making it an ideal solution for any retrofit lamp application. The Cree LED T8DM Series lamp delivers up to 2,650 lumens while achieving up to 110 lumens per watt of >80 CRI light quality. The Cree LED T8DM lamp is available in 3000K, 4000K and 6500K color temperatures and operates on most existing fluorescent T8 magnetic ballasts or can be re-wired direct to the AC mains voltage.

Performance Summary

Upgrades existing T8 fluorescent luminaires

Lamp Efficacy: Up to 110 LPW

Initial Delivered Lumens: Up to 2,650 lumens

Lamp Watts: 24 watts*

CRI: >80

CCT: 3000K, 4000K and 6500K

Input Voltage: 220-240 VAC

Beam Angle: 160°

Rated Life: Designed to last 40,000 hours L₇₀

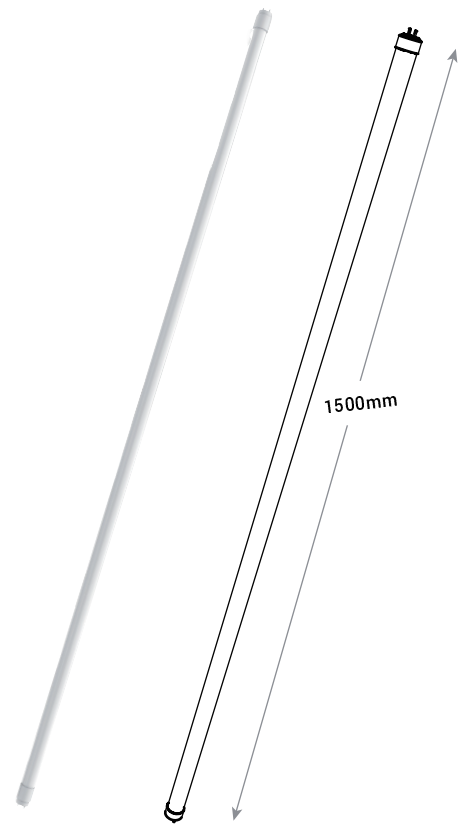
Controls: Non-Dimmable

Mounting: Linear fluorescent fixtures

Limited Warranty†: 3 years

† See www.cree.com/lighting/products/warranty for warranty terms

* When wired direct to AC mains. Wattage will vary when used on existing magnetic ballast



Ordering Information

Example: LEDT8DM-1500-23L-830K-23V

| LEDT8DM | 1500 | | | 23V |
|---------|----------------|---|---|--------------------|
| Product | Length | Initial Delivered Lumens | CCT | Voltage |
| LEDT8DM | 1500 1500mm | 23L 2,365 lumens - Available with 830K only 26L 2,650 lumens - Available with 840K & 865K only | 830K** 3000K 840K*** 4000K 865K*** 6500K | 23V 220-240 VAC |

** Available with 23L only

*** Available with 26L only



www.cree-europe.com



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Product Specifications

CONSTRUCTION & MATERIALS

- Lightweight plastic housing provides strength and durability
- Shatterproof design

OPTICAL SYSTEM

- G13 base type
- Specialized lens design for optimal light distribution and smooth visual effect
- Measured and designed to achieve optimal light performance in existing fluorescent troffers

ELECTRICAL SYSTEM

- Integral, high-efficiency driver to remodulate current to LEDs
- Utilizes existing fluorescent magnetic ballast or direct AC mains
- **Power Factor:** > 0.9
- **Input Power:** 9 watts*
- **Input Voltage:** 220-240 VAC
- **Operating Temperature Range:** -20°C - +40°C (-4°F - +104°F)
- For use with most T8 magnetic ballasts or re-wired direct to AC mains
- Not for use with any T12 ballasts, any T5 ballasts, or any T8 electronic ballasts

* When wired direct to AC mains. Wattage will vary when used on existing magnetic ballast

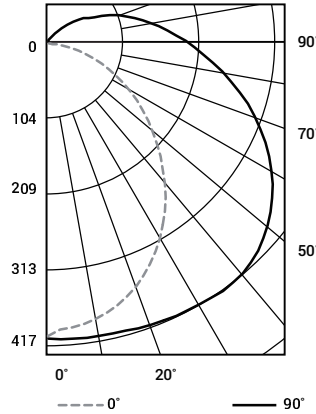
REGULATORY & VOLUNTARY QUALIFICATIONS

- CE and RoHS compliant
- Designed for indoor use

Photometry

LEDT8DM-1500-23L-830K-23V INSTALLED IN A WET LOCATION LINEAR BASED ON CESTL REPORT TEST #: PL06543-003

Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. IESNA LM-79-08 specifies the entire luminaire as the source resulting in a luminaire efficiency of 100%.



| Coefficients Of Utilization – Zonal Cavity Method | | | | |
|---|-----|-----|-----|-----|
| RC %: | 80 | | | |
| RW %: | 70 | 50 | 30 | 10 |
| RCR: 0 | 116 | 116 | 116 | 116 |
| 1 | 103 | 96 | 91 | 86 |
| 2 | 92 | 82 | 74 | 67 |
| 3 | 83 | 71 | 62 | 55 |
| 4 | 76 | 62 | 53 | 45 |
| 5 | 69 | 55 | 45 | 38 |
| 6 | 64 | 49 | 40 | 33 |
| 7 | 59 | 44 | 35 | 29 |
| 8 | 55 | 40 | 31 | 25 |
| 9 | 51 | 37 | 28 | 23 |
| 10 | 48 | 34 | 26 | 20 |

Effective Floor Cavity Reflectance: 20%

| Average Luminance Table (cd/m ²) | | | |
|--|------------------|--------|--------|
| Vertical Angle | Horizontal Angle | | |
| | 0° | 45° | 90° |
| 45° | 2,239 | 3,512 | 4,259 |
| 55° | 2,090 | 3,892 | 4,841 |
| 65° | 1,853 | 4,477 | 5,754 |
| 75° | 1,596 | 5,754 | 7,800 |
| 85° | 1,072 | 12,339 | 18,159 |

| Zonal Lumen Summary | | | |
|---------------------|--------|--------|-----------|
| Zone | Lumens | % Lamp | Luminaire |
| 0-30 | 326 | N/A | 17.5% |
| 0-40 | 549 | N/A | 29.5% |
| 0-60 | 1,056 | N/A | 56.7% |
| 0-90 | 1,626 | N/A | 87.3% |
| 0-180 | 1,862 | N/A | 100% |

Reference www.cree.com/Lighting/Products/Indoor/Lamps/T8-Series for detailed photometric data