

# T8DM

1200mm 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 2,000 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 2,000 lumens

**Lamp Watts:** 18 watts\*

**CRI:** >80

**CCT:** 3000K, 4000K and 6500K

**Input Voltage:** 100-240 VAC

**Beam Angle:** 160°

**Rated Life:** Designed to last 40,000 hours  $L_{70}$

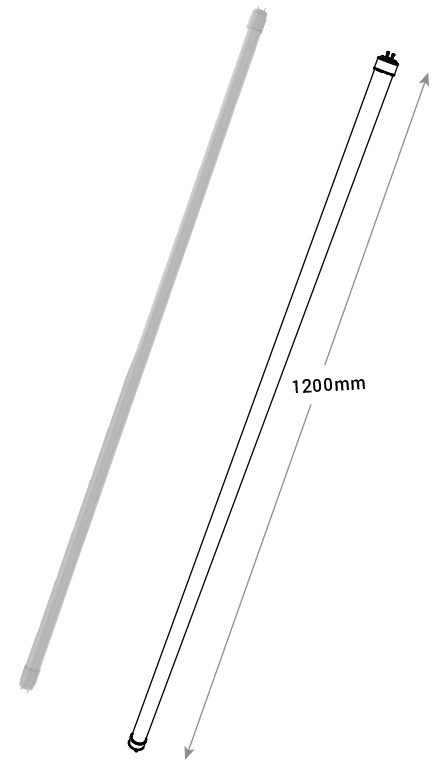
**Controls:** Non-Dimmable

**Mounting:** Linear fluorescent fixtures

**Limited Warranty†:** 3 years

† See [www.cree.com/lighting/products/warranty](http://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-1200-20L-840K-10V24V

LEDT8DM	1200			10V24V
Product	Length	Initial Delivered Lumens	CCT	Voltage
LEDT8DM	1200 1200 mm	<b>18L</b> 1,800 lumens - Available with 830K only <b>20L</b> 2,000 lumens - Available with 840K & 865K only	<b>830K**</b> 3000K <b>840K***</b> 4000K <b>865K***</b> 6500K	10V24V 100-240 VAC

\*\* Available with 18L only

\*\*\* Available with 20L only



[www.cree-europe.com](http://www.cree-europe.com)



T +39 055 343081 F +39 055 34308200

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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:** 18 watts\*
- **Input Voltage:** 100-240 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

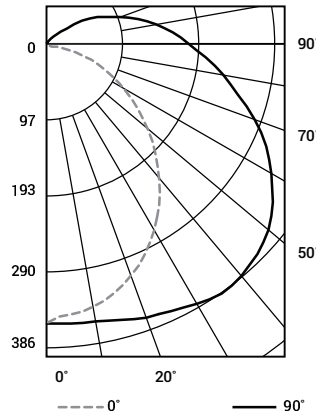
**REGULATORY & VOLUNTARY QUALIFICATIONS**

- CE and RoHS compliant
- Designed for indoor use

**Photometry**

**LEDT8DM-1200-20L-840K-10V24V INSTALLED IN A WET LOCATION LINEAR BASED ON CESTL REPORT TEST #: PL06543-001**

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	102	96	91	86
2	92	82	74	67
3	83	71	61	54
4	75	62	52	45
5	69	55	45	38
6	63	49	39	32
7	58	44	35	28
8	54	40	31	25
9	51	36	28	22
10	47	34	25	20

Effective Floor Cavity Reflectance: 20%

Average Luminance Table (cd/m <sup>2</sup> )			
Vertical Angle	Horizontal Angle		
	0°	45°	90°
45°	2,571	4,146	4,949
55°	2,292	4,637	5,654
65°	2,016	5,333	6,748
75°	1,712	6,795	8,998
85°	1,181	14,509	21,497

Zonal Lumen Summary			
Zone	Lumens	% Lamp	Luminaire
0-30	290	N/A	16.7%
0-40	492	N/A	28.6%
0-60	966	N/A	55.9%
0-90	1,503	N/A	86.9%
0-180	1,729	N/A	100%

Reference [www.cree.com/Lighting/Products/Indoor/Lamps/T8-Series](http://www.cree.com/Lighting/Products/Indoor/Lamps/T8-Series) for detailed photometric data