

T8 LED Direct Replacement, Ballast-compatible LED Tube Lamp

The 3M LED Advanced Light series of LED Direct Plug-in T8 tubes are designed to emulate the look and feel of traditional 4-foot, 32-watt fluorescent T8 tubes, while maintaining the ease of a plug-in installation. No fixture retrofit wiring is needed since these bulbs will run off the existing fluorescent ballast. Compatible with magnetic and electronic ballasts, including pulse start, rapid start, and instant start configurations. Rated with an L70 lifetime of at least 50,000 hours, this rugged tube lamp is designed for many years of reliable maintenance-free operation.

Applications

- Office lighting
- Overhead task lighting
- Limited space mounting locations
- Damp location installation
- Walk-in coolers and freezers
- Food processing facilities

Features

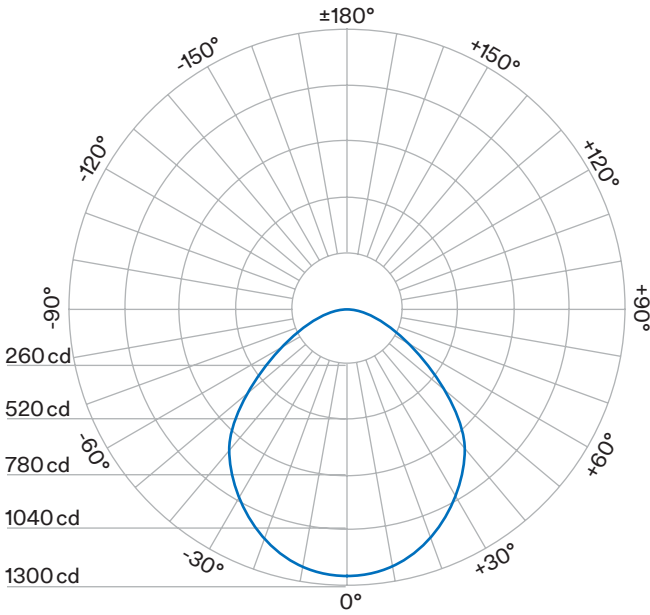
- No UV or IR radiation
- Works just like a traditional fluorescent T8 tube
- Mercury-free construction
- Suitable for damp location use
- Suitable for totally enclosed fixtures
- Easy and secure installation
- Compatible with electronic and magnetic ballasts

Specifications

Model		DRT8483520	DRT8484020
General	Base Type	G13	G13
	Lumen Output	2000 lm	2000 lm
	Luminous Efficacy	100 lm/W	100 lm/W
	Beam Angle	220°	220°
	Equivalent Fluorescent Wattage	32 W	32 W
Electrical	Input Power	20 W	20 W
	Input Voltage	Ballast Vac	Ballast Vac
	Power Factor	N/A	N/A
	Total Harmonic Distortion	≤20%	≤20%
Color	Color Temperature (CCT)	3500 K	4000 K
	Color Rendering Index (CRI)	≥80	≥80
Operational	Lifetime	50000 hours	50000 hours
	Warranty	5 Years	5 Years
	Dimmable	No	No
	Operating Temperature	-4°F to 113°F	-4°F to 113°F
	Environment	Damp Rated	Damp Rated
	Suitable for Totally Enclosed Install	Yes	Yes
	Weight	0.58 lbs	0.58 lbs
Dimensions (Length x Diameter)	47.2 x 1.12 in	47.2 x 1.12 in	



Polar Distribution Chart
(units in Candela, cd)



Polar Distribution data collected using two DRT848 tubes mounted in Lithonia 2GT8 lensed recessed troffer

Illuminance Data

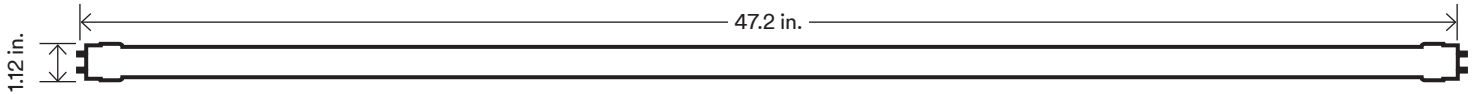
Illumination (Emax)	Diameter	Distance
28.91 fc (311 lux)	15.64 ft (238.35 cm)	6.56 ft (2.0 m)
12.85 fc (138 lux)	23.46 ft (357.53 cm)	9.84 ft (3.0 m)
7.23 fc (78 lux)	31.28 ft (476.70 cm)	13.12 ft (4.0 m)
4.63 fc (50 lux)	39.10 ft (595.88 cm)	16.40 ft (5.0 m)
3.21 fc (35 lux)	46.92 ft (715.05 cm)	19.69 ft (6.0 m)



Zonal Lumen Summary

Zone	Lumens	% Total
0-20	456.16	14.6%
0-30	972.09	31.0%
0-40	1584.55	50.6%
0-60	2624.43	83.7%
0-90	3134.39	100.0%
0-180	3149.39	100.0%

Zonal Lumen data collected using two DRT848 tubes mounted in Lithonia 2GT8 lensed recessed troffer.



Cat Number	Description	Stock Number	Billing Unit	Case Quantity	MOQ	Item UPC	Case UPC	Case Dimension (L"×W"×H")	Case Weight (lbs)	Case Cube (cu. Ft.)
DRT8483520	Direct Replacement T8, 48", 3500K, UI and DLC listed	70-0800-3100-1	EA	20	1 Case	00051128944912	50051128944917	49.8" × 10" × 8.5"	17.4	2.45
DRT8484020	Direct Replacement T8, 48", 4000K, UI and DLC listed	70-0800-3101-9	EA	20	1 Case	00051128944929	50051128944924	49.8" × 10" × 8.5"	17.4	2.45

LIMITED REMEDY: Warranted to last 5 years based on 12 hours normal use per day. 3M makes no other warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose. At 3M's option, refund or replacement is the sole remedy. This Limited Warranty does not cover accident, neglect, abuse, misuse or acts of God. Liability for direct, indirect, incidental or consequential damages is expressly excluded, except where prohibited by law. For warranty claims and additional details, please visit www.3MLighting.com/LED.



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