

HORTICULTURE LED T8 LAMP

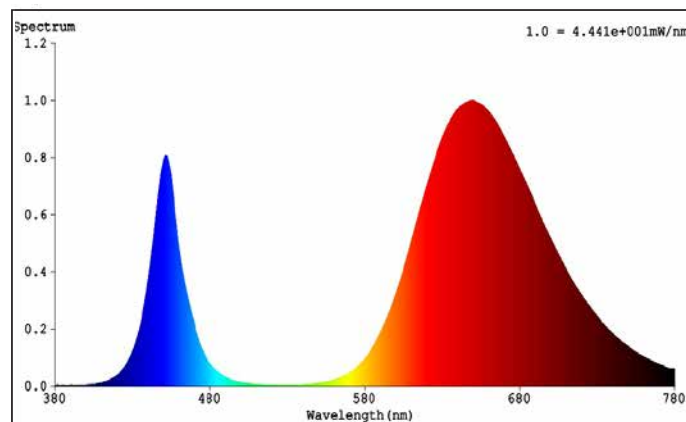
An energy efficient alternative to fluorescent lighting, the MaxLite LED T8 lamp cuts energy usage by 45 percent while optimizing plant growth. The lamp stimulates photosynthesis by concentrating light on the spectrum that plants absorb the most, with 100 percent of its light output usable to the plant. The self-ballasted lamp is easy to install into existing fixtures, or may be combined with MaxLite Lamp Ready Fixtures to create a complete UL-listed fixture.



FEATURES:

- Up to 25,000 hour L70 lifetime, TM-21 standards @ 25°C
- Peak wavelength at 450nm (royal blue) and 650nm (deep red) to promote flowering
- Glass-free design eliminates breakage concerns
- Self-ballasted

SPECTRAL ANALYSIS:



Spectral Distribution

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SPECIFICATIONS:

		L18T8SE415
ITEM	SPECIFICATION	DETAILS
GENERAL PERFORMANCE	Power (W)	18W
	PAR Output (μmol/s)	25 μmol/s
	PPFD (μmol/m ² /s)	0.3M, 0.98ft mounting height = 39 μmol/m ² /s
		0.4M, 1.3ft mounting height = 25 μmol/m ² /s
		0.5M, 1.6ft mounting height = 20 μmol/m ² /s
	PAR Efficacy (μmol/J)	1.4 μmol/J
	Lumen Maintenance (L70 @ 25°C)	25,000 hours
	Coverage Area (m ²)	0.3M, 0.98ft mounting height = 1.25 m ²
0.4M, 1.3ft mounting height = 1.66 m ²		
0.5M, 1.6ft mounting height = 2.07 m ²		
ELECTRICAL	Input Voltage	120-277V
PHYSICAL	Operating Temperature	-4°F to 104°F
	Lens	Clear
CERTIFICATION	Certification	FCC, cULus
	Material Usage	RoHS compliant; no mercury
	Environment	Damp location Suitable
	Warranty	2-year warranty

All performance data provided for single lamp.
Lighting layouts and spacing criteria available upon request.

PHOTMETRICS:

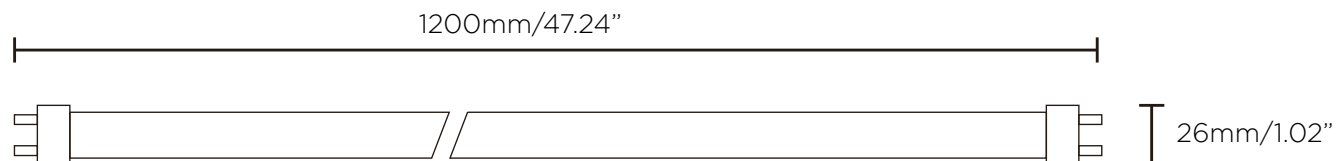
All .ies files available online.

MODEL SELECTION:

TYPICAL ORDER EXAMPLE: L18T8SE415

L	18	T8	SE	4	15
FAMILY	NOMINAL WATTAGE	LAMP TYPE	OPERATION	LENGTH	COLOR TEMPERATURE
L= LED Linear	18= 18W	T8= T8 tube	SE= Single-End Power	4= 4 FT	15= 1500K

DIMENSIONS:



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LAMP READY FIXTURES:

Combine with MaxLite T8 lamps to create a UL-listed fixture by the most economical means.

LAMP READY HIGHBAY

Available in 4-, 6- or 8-lamp open housing
 72W, 108W or 144W; output 2,300 - 4,600 lumens
 Covers 450 sq. ft. at 15'-20' mounting heights



ORDER CODE	MODEL NUMBER	DESCRIPTION
75428	BLHT4XT8USE4810	HIGHBAY LINEAR LAMP READY 4XT8 LED 120-277V SINGLE ENDED 48L X 10W
75429	BLHT6XT8USE4815	HIGHBAY LINEAR LAMP READY 6XT8 LED 120-277V SINGLE ENDED 48L X 15W
75430	BLHT8XT8USE4820	HIGHBAY LINEAR LAMP READY 8XT8 LED 120-277V SINGLE ENDED 48L X 20W

LAMP READY VAPOR TIGHT

Available in 2- or 3-lamp enclosed housing
 44W or 66W; output 1,100 - 1,700 lumens
 IP65-rated against water ingress



ORDER CODE	MODEL NUMBER	DESCRIPTION
74850	LSV2XT8USE4806	VAPOR TIGHT LAMP READY 2XT8 LED 120-277V SINGLE ENDED 48L X 6W
74851	LSV3XT8USE4806	VAPOR TIGHT LAMP READY 3XT8 LED 120-277V SINGLE ENDED 48L X 6W

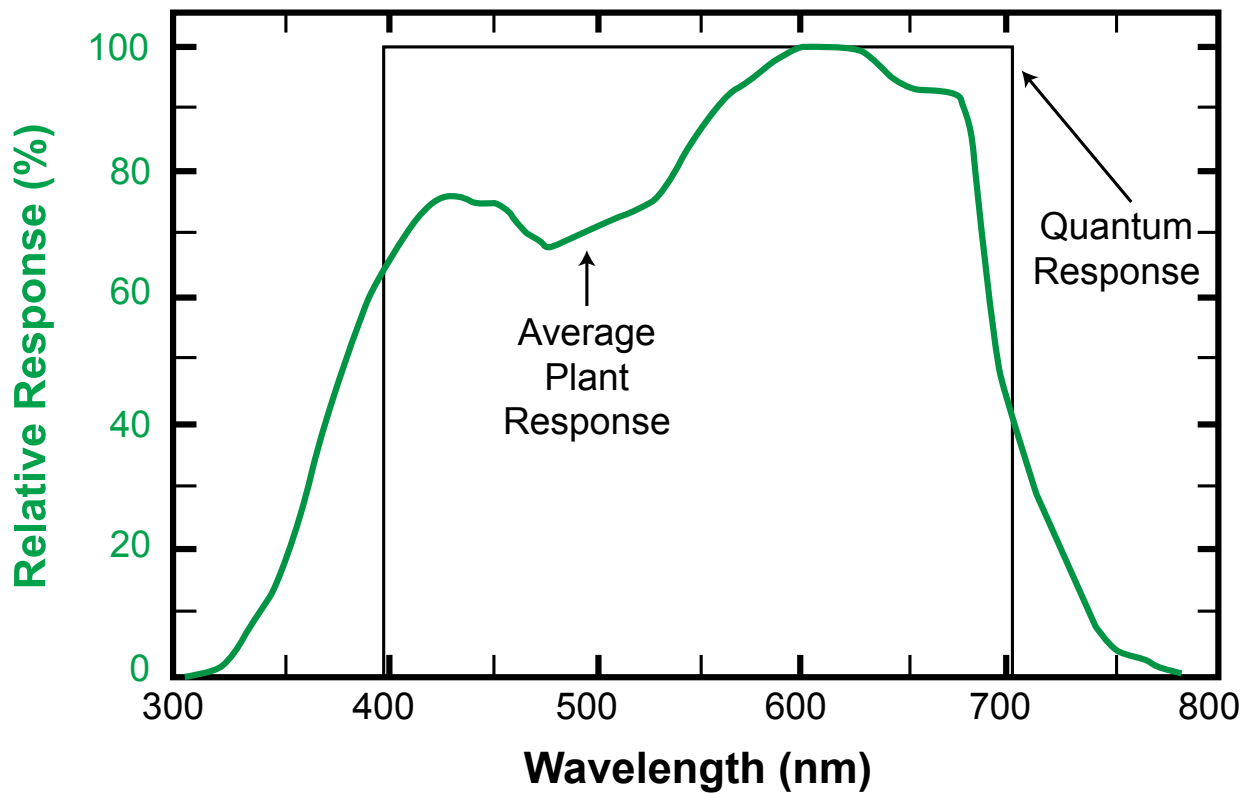
Fixtures and lamps sold separately.

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PHOTOSYNTHETICALLY ACTIVE RADIATION (PAR):

The PhotonMAX series concentrate their radiation at the ranges of light at which plants maximize photosynthetic activity. MaxLite's horticulture T8 lamps are specifically designed to help plants flower. As seen in the graph¹ below, plants have variable growth responses to different colors of visible light. The Horticulture T8 lamps focus irradiation on the light spectra that stimulate photosynthesis, the process that plants use to convert sunlight to energy.

PHOTOSYNTHETIC RESPONSE CURVE¹



NOTES:

1. Cited graph reproduced from: McCree, K.J. 1972a. The action spectrum, absorptance and quantum yield of photosynthesis in crop plants. Agricultural and Forest Meteorology 9, 191-216.