

Toggled Gro

Direct Wire LED Tubes

T8/T12 Replacement

- Universal voltage (120-277 VAC)
- Low operating temperature helps plants retain moisture
- Single-ended power, direct wire ballast bypass
- 50,000 hour lifetime
- Full and focused spectrum available



Toggled Gro™ LED tubes are engineered to provide improved growing performance using selected LED output wavelengths.

Toggled direct wire LED tubes connect to building line power, eliminating fluorescent ballast systems and external drivers. Standard T8 and T12 fluorescent tube fixtures can be easily rewired to accommodate Toggled tubes, providing mercury-free, energy efficient, and zero-maintenance lighting.

Outstanding Product Performance

- Up to 60% energy savings over traditional fluorescent systems
- Eliminates ballasts and maintenance costs
- Designed for direct connection to building AC power, voltage 120-277 VAC
- Tube operating temperature = -20 to 45° C

Superior Quality of Light

- Triangular tube shape delivers broader, more uniform light distribution
- Limited* 6-year commercial warranty

- UL 1598C
- IES LM79 tested

Commercial-grade

- Designed and engineered in U.S.A.
- Shatterproof polycarbonate construction
- Suitable for damp locations - UL rated
- No mercury
- Built-in surge protection. ANSI/IEEE C62.41.1991

*Details at toggled.com/warranty

Ordering Information

Series	Length	Power	CCT	Lens	Output	Options
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E = Universal Voltage	4 = 4 feet	16 = 16 Watts	G1 = Focused Spectrum G2 = Full Spectrum	3 = Wide Angle	1 = Standard	0 = None



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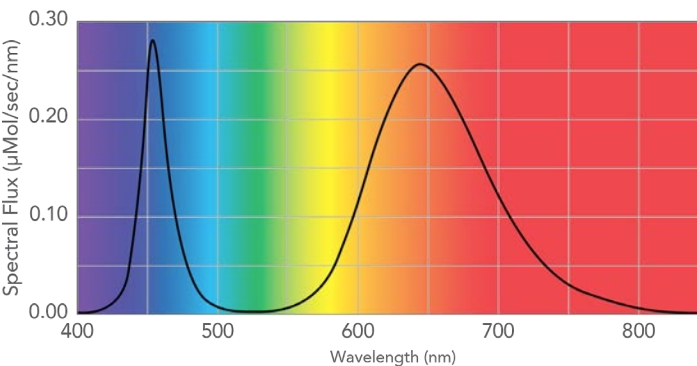
Direct Wire LED Tubes

T8/T12 Replacement

Model No.	Input Voltage	Power (Watts)	PPF (400-700nm)	PBAR (350-800nm)	PPF Efficacy (400-700nm)	PBAR Efficacy (350-800nm)
E416-G1310 - Focused Spectrum	120-277VAC	16	29.84 $\mu\text{mol/Sec.}$	34.12 $\mu\text{mol/Sec.}$	1.8 $\mu\text{mol/Sec./W}$	2.1 $\mu\text{mol/Sec./W}$
E416-G2310 - Full Spectrum	120-277VAC	16	31.33 $\mu\text{mol/Sec.}$	33.39 $\mu\text{mol/Sec.}$	1.9 $\mu\text{mol/Sec./W}$	2.1 $\mu\text{mol/Sec./W}$

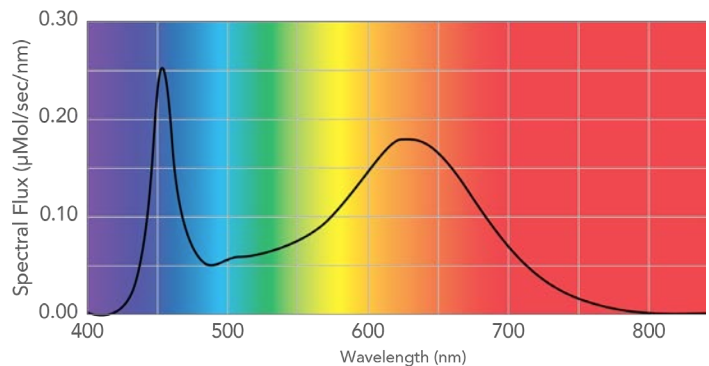
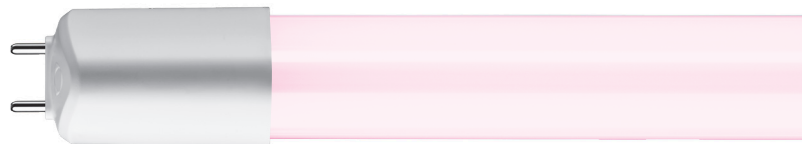
Focused Spectrum Tube

Provides focused red and blue light to help maximize these spectrums.



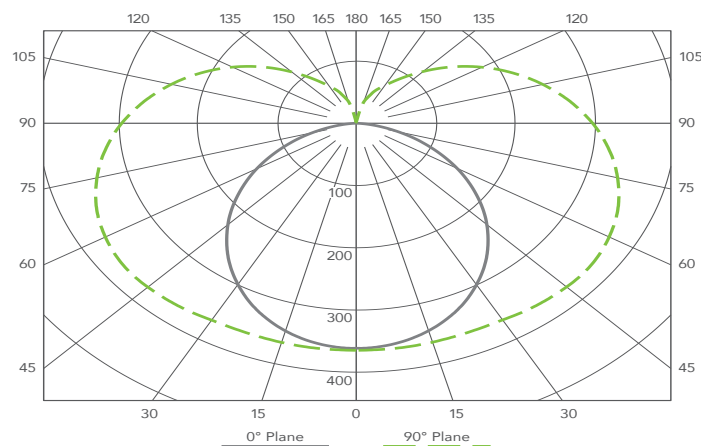
Full Spectrum Tube

Provides full spectrum light distribution enhanced with far red to optimize vegetation, budding and flowering.



Photometrics

IES files available upon request



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