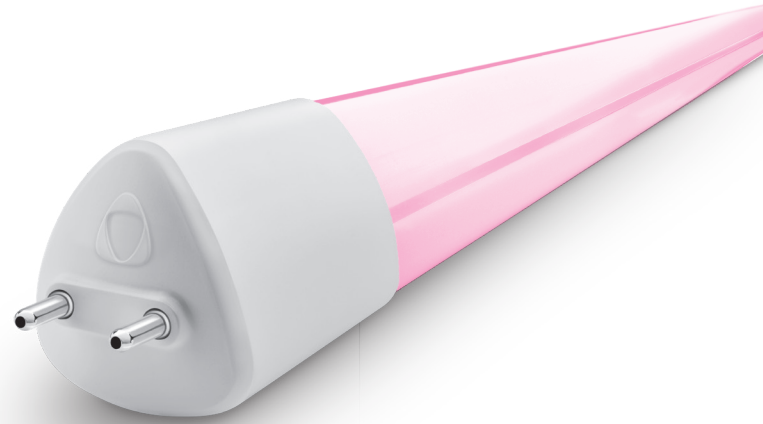


toggled gro™ LED Tubes

T8/T12 Replacement for 120-277 VAC

- Universal voltage (120-277 VAC)
- Low heat
- Ballast bypass
- 50,000 hour life
- Excellent light distribution
- Full and focused spectrum available



toggled gro™ LED tubes are engineered to provide improved growing performance for green leafy plants using selected LED output wavelengths. As with all toggled LED tubes, the grow tubes are mercury-free and energy efficient, and designed to work in standard T8 and T12 fluorescent tube fixtures. They run directly off of building line power and eliminate fluorescent ballast systems to deliver high quality lighting.

Outstanding Product Performance

- 40-70% energy savings
- Eliminates ballasts and maintenance costs
- Designed for direct connection to building AC power, voltage 120-277 VAC 50-60Hz
- Rapid payback for high-demand applications
- Eligible for available state and energy credit programs and utility incentives

Superior Quality of Light

- Patented triangular tube shape is engineered for broader and more uniform light distribution
- Engineered to encourage vegetative growth and promote larger leaf growth
- Limited* 6-year commercial warranty

Commercial-grade

- Designed and engineered in U.S.A.
- Instant start in cold
- Shatterproof polycarbonate construction
- Suitable for damp locations
- No mercury

*Details at toggled.com/warranty

Ordering Information

Series	Length	Power	CCT	Lens	Output	Options
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
E = Universal Voltage	4 = 4 feet	16 = 16 Watts	G1 = Focused Spectrum G2 = Full Spectrum	3 = Wide Angle	1 = Standard	0 = None

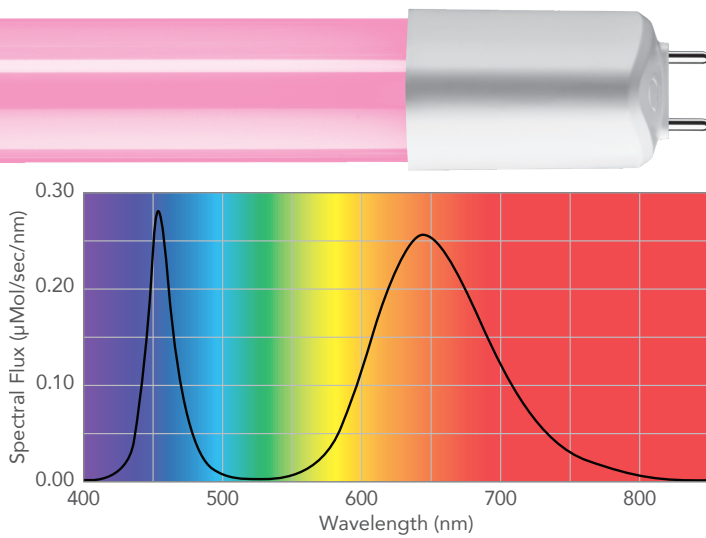


toggled gro™ LED Tubes

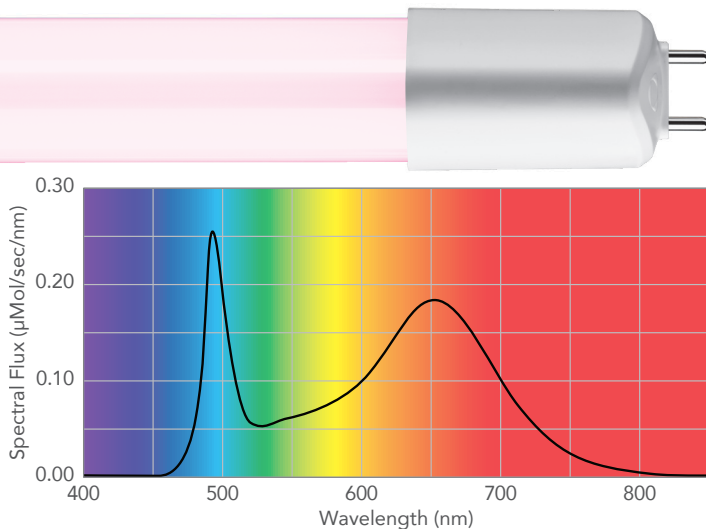
T8/T12 Replacement for 120-277 VAC

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 $\mu\text{mol}/\text{Sec.}$	34.12 $\mu\text{mol}/\text{Sec.}$	1.8 $\mu\text{mol}/\text{Sec.}/\text{W}$	2.1 $\mu\text{mol}/\text{Sec.}/\text{W}$
E416-G2310 - Full Spectrum	120-277VAC	16	31.33 $\mu\text{mol}/\text{Sec.}$	33.39 $\mu\text{mol}/\text{Sec.}$	1.9 $\mu\text{mol}/\text{Sec.}/\text{W}$	2.1 $\mu\text{mol}/\text{Sec.}/\text{W}$

Focused Spectrum Tube

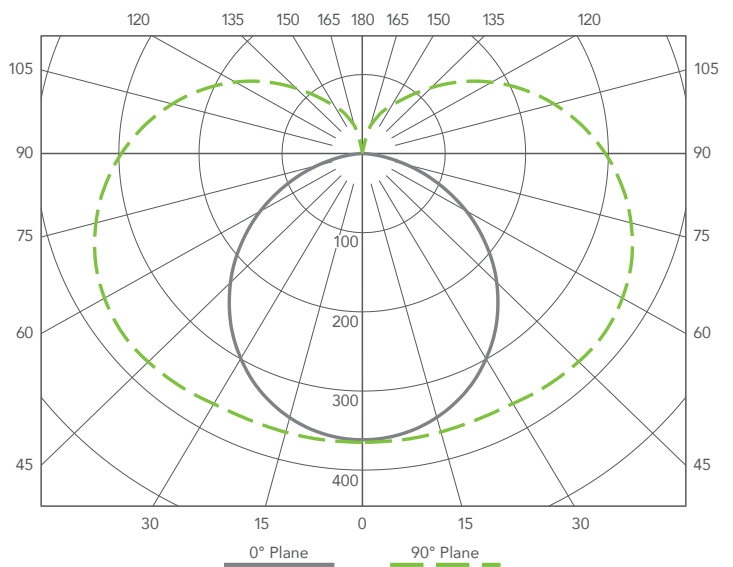


Full Spectrum Tube



Photometrics

IES files available upon request



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