

## E-Series Direct Wire LED Tubes

T8/T12 Replacement for 120-277 VAC

- Universal voltage (120-277 VAC)
- Single-ended direct wire power
- Ballast bypass
- 50,000 hour lifetime
- Shatterproof polycarbonate construction
- 2, 3, and 4 foot models
- 3000K, 4000K, 5000K and 6500K

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
- Rapid payback for high-demand applications
- Eligible for available state and energy credit programs and utility incentives
- Tube operating temperature = -20 to 45° C



### Superior Quality of Light

- Patented triangular tube shape is engineered for broader and more uniform light distribution
- Provides sufficient back lighting to eliminate the "cave effect" in troffers
- Consistent color rendering, 80 CRI minimum
- IES LM-79, IES LM-80, IES TM-21 tested
- UL 1598C
- Limited\* lifetime warranty (Residential)  
Limited\* 6-year warranty (Commercial)
- 3-step MacAdam ellipse

### Commercial-grade

- Designed and engineered in U.S.A.
- Extreme temperature tolerant in cold and hot weather
- 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](http://toggled.com/warranty)

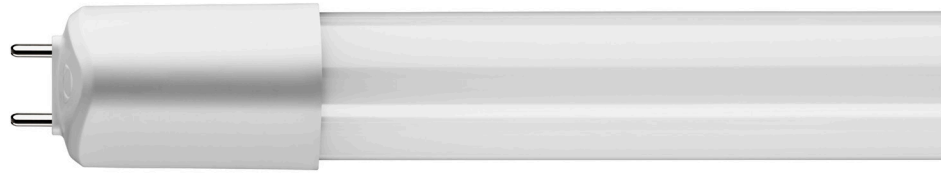
## Ordering Information

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	2 = 2 feet 3 = 3 feet 4 = 4 feet	08 = 8 Watts 12 = 12 Watts 16 = 16 Watts	30 = 3000K 40 = 4000K 50 = 5000K 65 = 6500K	3 = Wide Angle	1 = Standard	0 = None



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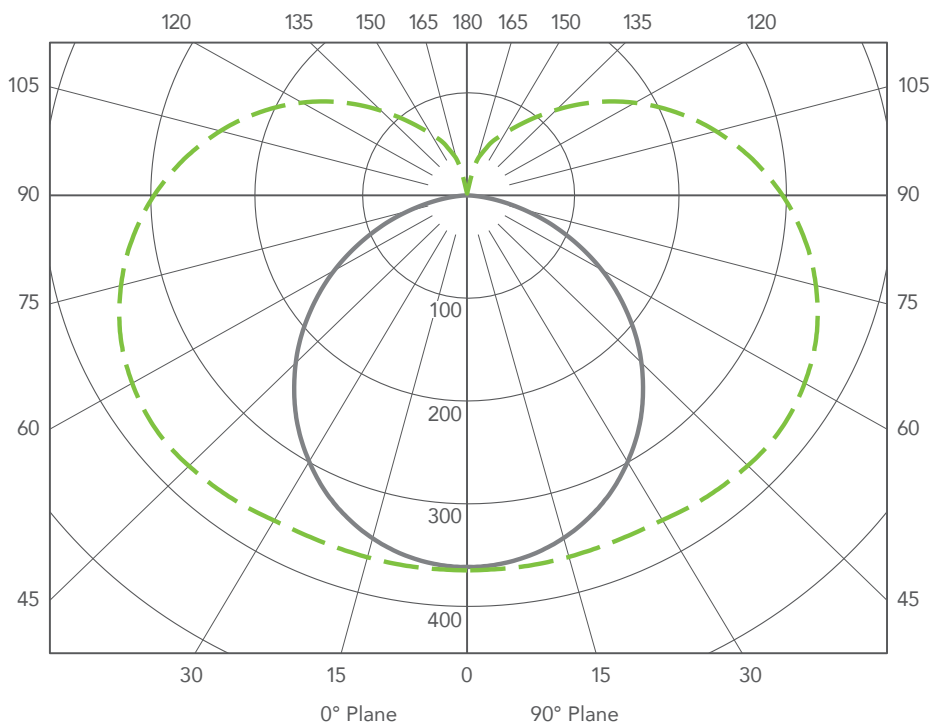


	Model No.	Length	Input Voltage	Power (Watts)	Total Lumens	Efficacy	CRI	CCT	PF	DLC Listed
4 feet	E416-30310	4 feet	120-277 VAC	16	2100	131	≥80	3000K	≥0.9	
	E416-40310	4 feet	120-277 VAC	16	2100	131	≥80	4000K	≥0.9	✓
	E416-50310	4 feet	120-277 VAC	16	2100	131	≥80	5000K	≥0.9	✓
	E416-65310	4 feet	120-277 VAC	16	2100	131	≥80	6500K	≥0.9	
3 feet	E312-30310	3 feet	120-277 VAC	12	1680	140	≥80	3000K	≥0.9	
	E312-40310	3 feet	120-277 VAC	12	1680	140	≥80	4000K	≥0.9	
	E312-50310	3 feet	120-277 VAC	12	1680	140	≥80	5000K	≥0.9	
	E312-65310	3 feet	120-277 VAC	12	1680	140	≥80	6500K	≥0.9	
2 feet	E208-30310	2 feet	120-277 VAC	8	1120	140	≥80	3000K	≥0.9	
	E208-40310	2 feet	120-277 VAC	8	1120	140	≥80	4000K	≥0.9	✓
	E208-50310	2 feet	120-277 VAC	8	1120	140	≥80	5000K	≥0.9	✓
	E208-65310	2 feet	120-277 VAC	8	1120	140	≥80	6500K	≥0.9	

All DLC listed products meet version 4.3. Please consult [designlights.org](http://designlights.org) for current product listings.

### Photometrics

IES files available upon request



**Disclaimer:** toggled reserves the right to make changes to specific items and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.