

# Ultra High Output Direct Wire LED Tubes

T8/T12 Replacement for 120-277 VAC



**2X**  
LIGHT  
OUTPUT  
VS. STANDARD LED

- 2X light output vs. standard LED models, 4 ft. (4,000 lumens) and 2 ft. (2,000 lumens)
- Universal voltage (120-277 VAC), non-dimmable
- Single-ended direct wire power
- 50,000 hour lifetime
- Shatterproof polycarbonate construction
- 2 and 4 ft. models
- 4000K, 5000K and 6500K

Toggled® Ultra High Output direct wire LED tubes provide twice the lumen output as the standard model. Toggled 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

- Eliminates ballasts and maintenance costs
- Designed for direct connection to building AC power, voltage 120-277 VAC
- Rapid payback for high-demand applications
- Tube operating temperature = -20 to 45° C
- Ideal for highbay applications like gymnasiums and warehouses
- Can be used for de-lamping, even in high efficiency T8 fixtures

### Superior Quality of Light

- Triangular tube shape delivers broader, more uniform light distribution
- Provides sufficient back lighting to eliminate “cave effect” in troffers
- Consistent color rendering, 80 CRI minimum
- IES LM-79, IES LM-80, IES TM-21 tested
- UL 1598C
- Limited\* 6-year warranty
- 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 and dry locations
- 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 4 = 4 feet	25 = 25 Watts 13 = 12.5 Watts	40 = 4000K 50 = 5000K 65 = 6500K	3 = Wide Angle	2 = Premium	0 = None

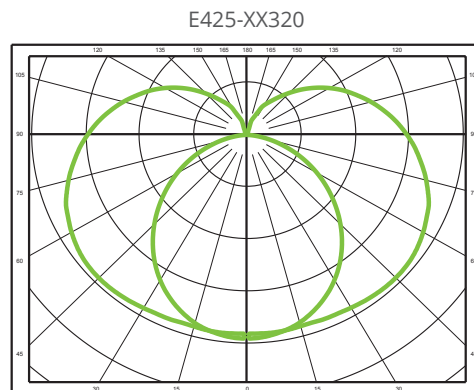


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	Model No.	Length	Input Voltage	Power (Watts)	Total Lumens	Efficacy	CRI	CCT	PF
4 feet	E425-40320	4 feet	120-277 VAC	25	4000	160	≥80	4000K	≥0.9
	E425-50320	4 feet	120-277 VAC	25	4000	160	≥80	5000K	≥0.9
	E425-65320	4 feet	120-277 VAC	25	4000	160	≥80	6500K	≥0.9
2 ft COMING SOON	E213-40320	2 feet	120-277 VAC	12.5	2000	160	≥80	4000K	≥0.9
	E213-50320	2 feet	120-277 VAC	12.5	2000	160	≥80	5000K	≥0.9
	E213-65320	2 feet	120-277 VAC	12.5	2000	160	≥80	6500K	≥0.9



Light distribution typical for all products listed in this specification.

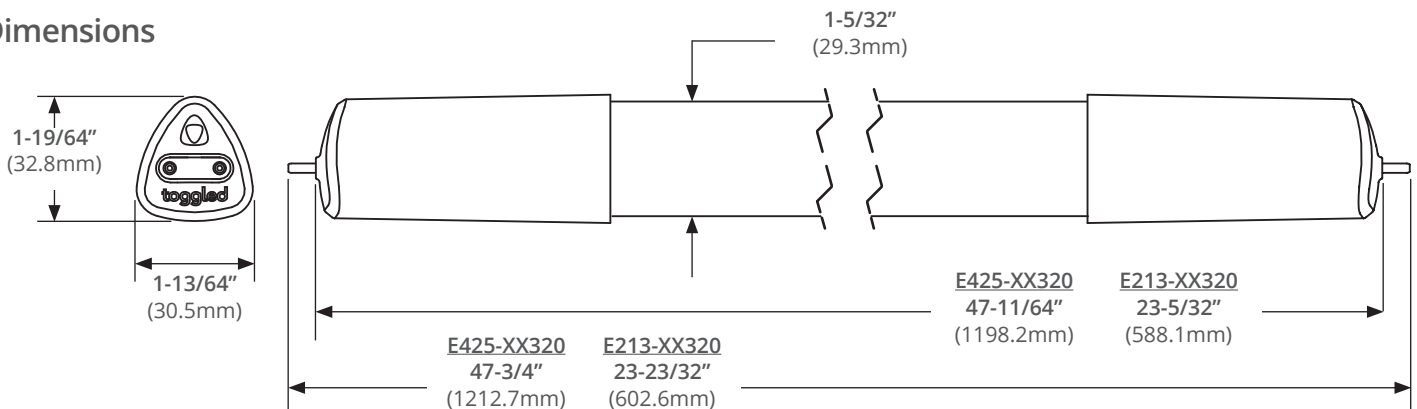
90-270 Degree Plane (Looking at end of lamp)

Beam Angle: 240 Degrees  
Field Angle: 355 Degrees

0-180 Degree Plane (Looking at side of lamp)

Beam Angle: 105 Degrees  
Field Angle: 156 Degrees

## Dimensions



**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.