

NorthLux™ LED lamps are now available in a 4-ft T8 tube form factor. Featuring 95 CRI and 5000K or 6500K, the light output is extremely similar to natural sunlight / daylight, making these lamps a perfect enhancement to your art studio or workspace.

Our T8 tubes are configured to work as a retrofit in virtually any existing 4-ft T8 fluorescent fixture, making installation quick and easy. No ballast rewiring is necessary – simply remove the fluorescent lamp and install the NorthLux™ LED lamp.

FEATURES

- Available in 5000K or 6500K to truly simulate natural sunlight or daylight
- 95+ CRI and R9 > 90
- 4-ft length; T8 shape with G13 bi-pin
- 1800 lumens to replace 40W fluorescent
- Conforms to UL safety standards
- UL Type A compatible (with ballast)
- UL Type B compatible (ballast bypass, single OR double ended)
- No mercury, instant-on
- No IR or UV
- 50K hour lifetime and 5-year warranty
- For indoor use only



PHOTOMETRIC SPECIFICATIONS

Light output:	1800 lumens	CRI Ra:	95+
Luminous efficacy:	100 lm/W	CRI R9:	90+
Light distribution:	320 degrees	TM-30-15 R_r/ R_g:	90+/100
Lifetime (L70):	50,000 hours		

Download full photometric reports at <https://www.waveformlighting.com/photometrics>

ELECTRICAL SPECIFICATIONS

Lamp base:	G13 Bi-pin
Power:	18 W
Input voltage:	120 – 277V AC
Input frequency:	50 – 60 Hz
Power factor:	0.9
Dimmer compatible?	No

MECHANICAL SPECIFICATIONS

Length:	48 in (1200 mm)
Diameter:	1.1 in (28 mm)
Lamp material:	NSF Shatterproof Glass

INSTALLATION INSTRUCTIONS

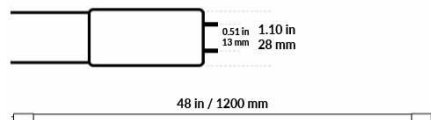
Unlike incandescent and halogen lamps, fluorescent bulbs require a separate device called a ballast to operate. Most fluorescent fixtures have a ballast device installed inside. Some fluorescent fixtures which already have been retrofitted with LED lamps may already have the ballast removed or bypassed.

Our T8 LED lamps are designed to be plug-and-play ready with 3-in-1 compatibility. This means that our lamps will work in any T8 fluorescent fixture, regardless of whether or not the fixture has been rewired for LED compatibility. The three installation methods are shown below:

Method	Description	Wiring Diagram	Pros	Cons
With ballast (UL Type A)	Keeps fluorescent ballast in fixture, simply install in place of old fluorescent bulb.		<ul style="list-style-type: none"> • Very quick & easy installation • Little electrical knowledge required • Fluorescent tubes can still be used in fixture 	<ul style="list-style-type: none"> • LED lamp operation depends on ballast reliability; ballast failure may require rewiring in future • Lower overall system efficiency due to ballast inefficiencies
Ballast bypass, single ended (UL Type B)	Replaces or bypasses the fluorescent ballast, and directly connects line voltage to just one end of the LED tube.		<ul style="list-style-type: none"> • Higher system efficiency due to elimination of fluorescent ballast • Works with non-shunted tombstones only 	<ul style="list-style-type: none"> • Requires replacement of ballast and comfort with electrical work • Fluorescent tubes no longer compatible with fixture
Without ballast, double ended (UL Type B)	Replaces or bypasses the fluorescent ballast, and directly connects line voltage to both ends of the LED tube.		<ul style="list-style-type: none"> • Higher system efficiency due to elimination of fluorescent ballast • Works with shunted and non-shunted tombstones 	<ul style="list-style-type: none"> • Requires replacement of ballast and comfort with electrical work • Fluorescent tubes no longer compatible with fixture

ALWAYS OBSERVE ELECTRICAL SAFETY PRECAUTIONS. WHEN IN DOUBT, SEEK A QUALIFIED ELECTRICIAN'S ASSISTANCE.

MECHANICAL DRAWING & DIMENSIONS (in mm)



PART NUMBERS AND ORDERING

5000K:	4020.50
6500K:	4020.65