



U-Bend LED

Direct Line Voltage, Ballast Compatible

Leapfrog Lighting's UL/cUL certified, direct line voltage and ballast compatible T8 tubes provide industry-leading light quality, output power, and efficacy as a result of our optics and high efficiency LED source and driver electronics. The ballast compatible versions are designed for compatibility with existing instant start and rapid start electronic ballasts in order to minimize installation and recycling costs.

Features

- Instant on with no warm-up time
- No hum, strobing or flickering
- Ballast compatible versions work with rapid start, instant start, and most electronic ballasts
- Innovative soft light, anti-glare technology
- Available in clear or frosted
- Available in a variety of CCTs
- High efficacy and power factor
- Comprehensive five-year warranty



Contact

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LIGHT QUALITY

Evenly distributed, soft, no glare light

WATTAGE EQUIVALENCY

32 Watt fluorescent equivalent

LIFE EXPECTANCY

50,000 hours

PERFORMANCE

High light output, high efficiency, wide beam angle light source

COLOR

Ultra-consistent color temperature control critical to multi-tube applications with pleasing CCT options

SPECIFICATIONS - Direct Line Voltage

CCT ¹	CRI ²	LM	W	LM/W	PART
3000K	>82	1900	17	112	1009-NUΔ17-30111
3000K	>82	1650	15	110	1009-NUΔ15-30111
4000K	>82	2000	17	118	1009-NUΔ17-40111
4000K	>82	1800	15	120	1009-NUΔ15-40111
5000K	>82	2100	17	123	1009-NUΔ17-50111
5000K	>82	1850	15	123	1009-NUΔ15-50111

Δ Cover finish type. Input one of the following when ordering:
C = Clear | F = Frosted

SPECIFICATIONS - Ballast Compatible

CCT ¹	CRI ²	LM	W	LM/W	PART
3000K	>82	1700	17	100	1009-NUΔ17-30B111
3000K	>82	1500	15	100	1009-NUΔ15-30B111
4000K	>82	1850	17	109	1009-NUΔ17-40B111
4000K	>82	1600	15	107	1009-NUΔ15-40B111
5000K	>82	1900	17	112	1009-NUΔ17-50B111
5000K	>82	1650	15	110	1009-NUΔ15-50B111

Δ Cover finish type. Input one of the following when ordering:
C = Clear | F = Frosted

OPTICAL	
Duv ⁵	< ±0.006

1. Tolerances as per ANSI C78.377-2008 Nominal CCT categories
2. CRI refers to the "General CRI" described as Ra in CIE 13.3
3. Lifetime as defined by IESNA LM-80
4. Compatible with ANSI C78.21-2011 dimensional requirements
5. Duv values and tolerances as per ANSI C78.377-2008 Nominal CCT, Table 1, page 8

GENERAL	
Min. lifetime ³	50,000 hours
Base type	G13
Weight	12.3 oz
Operating Temp.	-25C to +40C

ELECTRICAL	
Operating voltage range	100-277 VAC
Power factor	>0.95
IP Rating	Non-weatherproof

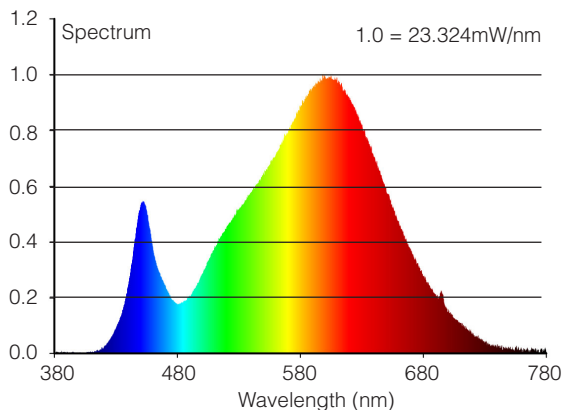
T8 BALLAST COMPATIBILITY (Ballast Compatible versions)

The North American installed base of ballasts has a wide variety of designs and specifications. Leapfrog Lighting recommends that this T8 tube be tested on all ballasts in your facility before installing large quantities.

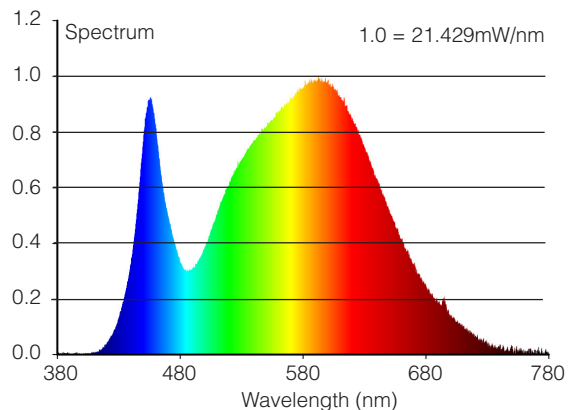
BRAND	MODEL	BALLAST TYPE	BALLAST INPUT VOLTAGE
ACCUPRO	AK-RC-232IP-UNV	INSTANT START	120/277V 0.50.22/A 50/60Hz
	AP-RC-432IP-120-1	INSTANT START	120V 0.97A 60Hz
	AP-RS-232IS-120	INSTANT START	120V 0.31A 60Hz
	AP-RC-232IP-120-1	INSTANT START	120V 0.48A 60Hz
ADVANCE	IIC-2S32-SC	INSTANT START	120/277V 0.51A 50/60Hz
DEAN	HFE-232-120-IS-LPF	INSTANT START	120V 0.48A 60Hz
GE PROLINE	GE232-N-347	INSTANT START	120V 0.48A 60Hz
	GE332MV-N-DIY	INSTANT START	120/277V 0.74A 50/60Hz
KEYSTONE	KTEB-132-1-TP-EMI	INSTANT START	120V 0.48A 60Hz
LIGHTPARK	120-2/32IS MPF	INSTANT START	120V 0.89A 60Hz
OSRAM SYLVANIA	QTP1X32T8/UNV ISN-SC	INSTANT START	100-277V 0.26A 50/60Hz
PHILIPS ADVANCE	REB-2P32-SC	INSTANT START	120V 0.8A 60Hz
	RELB-1S40-SC	RAPID START	120V 0.31A 60Hz
	RELB-2S40-SC	RAPID START	120V 0.62A 60Hz
TOUVE	120-2G 32EC	INSTANT START	120V 0.65A 60Hz
UNIVERSAL TRIAD	B232IUNVHP-B	INSTANT START	100-277V 0.26A 50/60Hz
ULTRASAVE	ET232120M	INSTANT START	100-277V 0.49A 50/60Hz
	UT432347	INSTANT START	347V 0.32A 50/60Hz

SPECTRAL POWER DISTRIBUTION

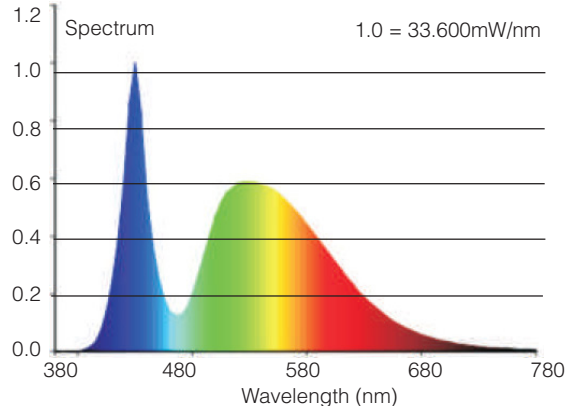
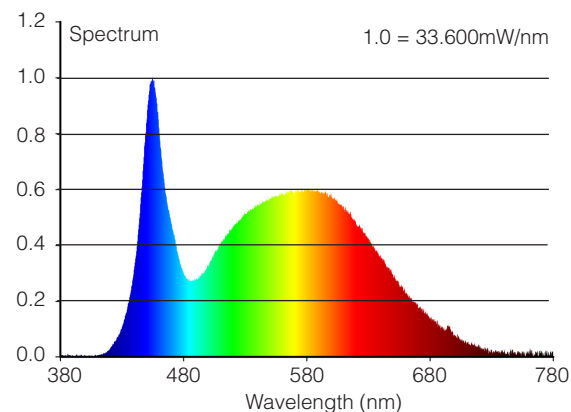
3000K



4000K



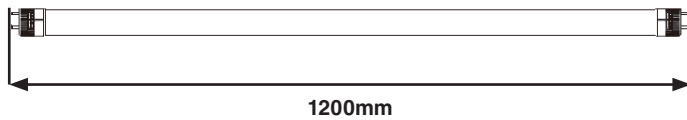
5000K



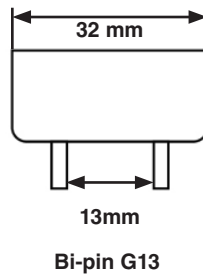
T8 TRANSFORMER COMPATIBILITY (Direct Line Voltage versions)

Leapfrog Lighting's T8 LED tubes contain an internal driver and therefore are not compatible with inductive or electronic ballasts. The internal driver removes the need for a ballast or starter. Works with any approved fixture off direct inline voltage (120-277-Volt AC).

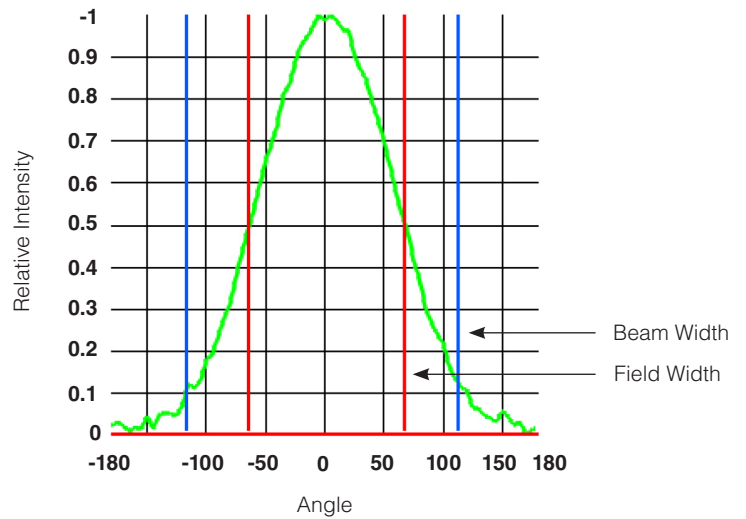
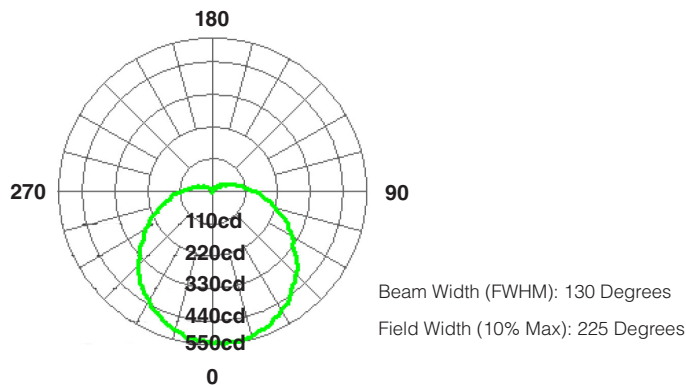
DIMENSIONS



BASE TYPE



POLAR INTENSITY DIAGRAMS



APPLICATION NOTES

UL approved for dry locations

Ambient temperature within -25 to +40 °C.

SAFETY NOTES

Warning: Risk of electric shock

Do not disassemble (no user serviceable parts)

Turn off power before inspection, installation or removal.

WARRANTY

If the tube fails to meet our specifications during the first 60 months, we'll replace it.

For additional warranty information, please refer to <http://www.leapfroglighting.com/resources/>.

