



T8 LED Ballast Compatible

For Use with Electronic Ballasts

Features

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



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Leapfrog Lighting's DLC and UL/cUL certified, ballast-compatible T8 tubes provide industry-leading light quality, output power, and efficacy. These LED tubes are designed for compatibility with existing instant start and rapid start electronic ballasts in order to minimize installation and recycling costs.

LIGHT QUALITY

Evenly distributed, soft, no glare light

APPLICATIONS

cUL approved for dry locations

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

WATTAGE EQUIVALENCY

32 Watt fluorescent equivalent

SPECIFICATIONS

CCT ¹	CRI ²	LM	W	LM/W	PART
3000K	>82	1950	17	114	1009-N4Δ17-30B11
3000K	>82	1750	15	117	1009-N4Δ15-30B11
4000K	>82	2050	17	120	1009-N4Δ17-40B11
4000K	>82	1800	15	120	1009-N4Δ15-40B11
5000K	>82	2200	17	129	1009-N4Δ17-50B11
5000K	>82	1950	15	130	1009-N4Δ15-50B11

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

Δ Cover finish type. Input one of the following when ordering:

C = Clear | F = Frosted

GENERAL		ELECTRICAL	
Min. lifetime ³	50,000 hours	Operating voltage range	100-277 VAC
Base type	G13	Power factor	> 0.95
Weight	12.3 oz	IP Rating	Non-weatherproof
Operating Temp.	-25C to +40C		
Dimensions ⁴	T8		

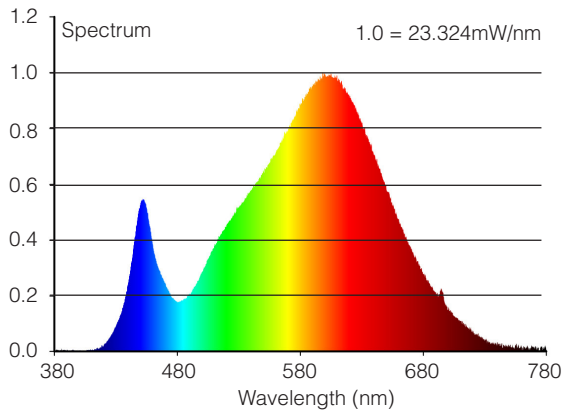
T8 BALLAST COMPATIBILITY (North America)

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.

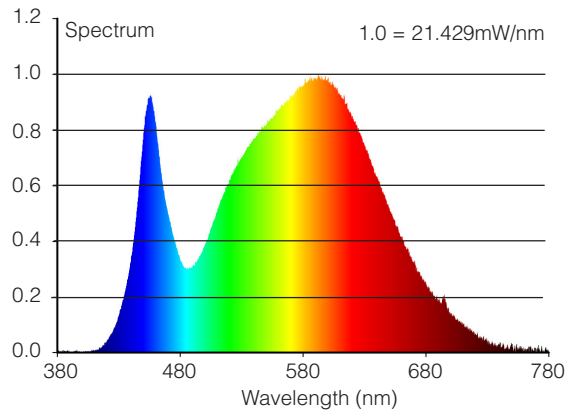
BRAND	MODEL	BALLAST TYPE	BALLAST INPUT VOLTAGE
ACCUPRO	AK-RC-232IP-UNV	INSTANT START	120/277V 0.50.22/A 50/60Hz
	AP-RC-432IP-120-1	INSTANT START	120V 0.97A 60Hz
	AP-RS-232IS-120	INSTANT START	120V 0.31A 60Hz
	AP-RC-232IP-120-1	INSTANT START	120V 0.48A 60Hz
ADVANCE	IIC-2S32-SC	INSTANT START	120/277V 0.51A 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

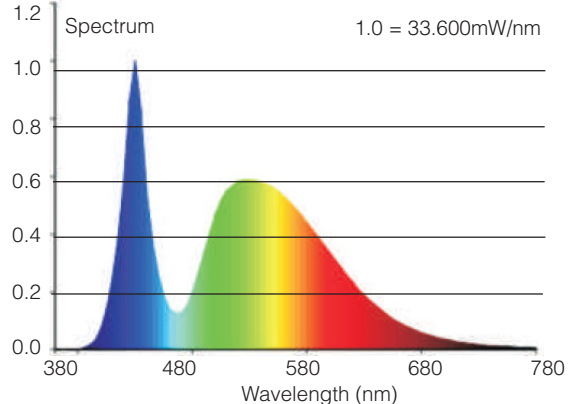
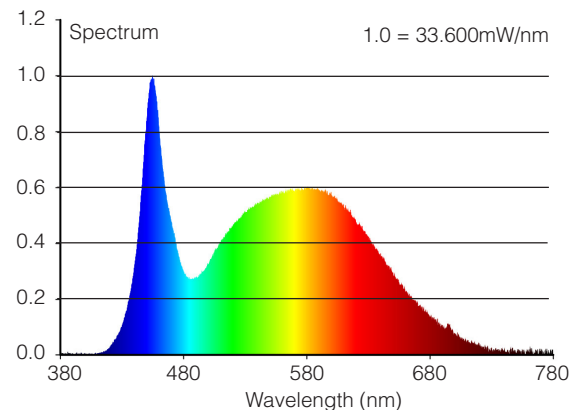
3000K



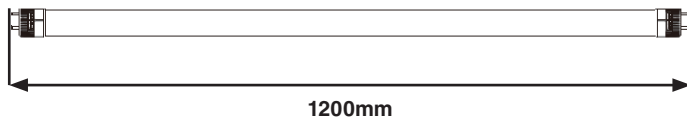
4000K



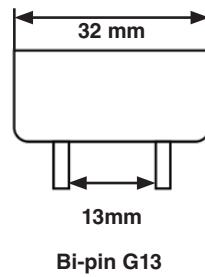
5000K



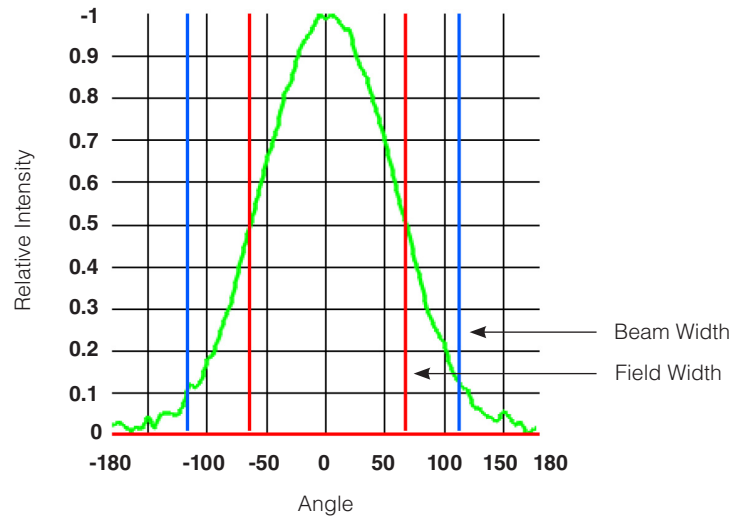
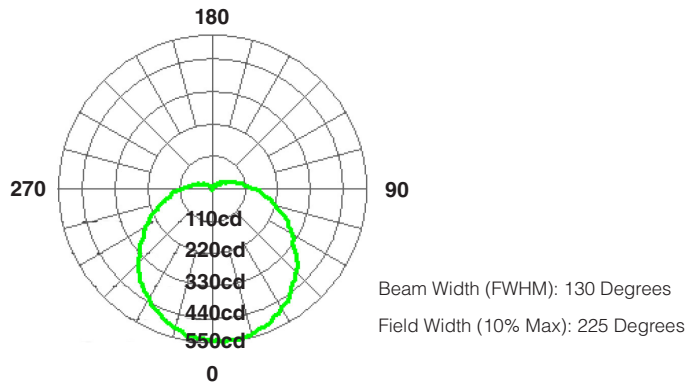
DIMENSIONS



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/>.

