



T8 LED

Linear 4' Direct Line Voltage tube *32W fluorescent equivalent*

Leapfrog Lighting's ETL/cETL listed, DLC certified, T8 Direct Line Voltage tube provides industry-leading light quality, output power, and efficacy as a result of our optics and high-efficiency, high-reliability LED source and driver electronics. Direct replacement for T8 and T12 tubes.

Features

- Innovative soft light, anti-glare technology
- No hum, strobing or flickering
- Internal driver--no external ballast or starter needed
- Available in clear or frosted
- Polished and dustproof glass
- DLC certified
- Available in a variety of CCTs
- High efficacy and power factor
- Comprehensive five-year warranty



DESIGNLIGHTS
CONSORTIUM



Contact

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LIGHT QUALITY

Evenly distributed, soft, no glare light

APPLICATIONS

ETL/cETL approved for indoor use only with standard on/off switches only.

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 | BEAM | LM | W | LM/W | PART |
|------------------|------------------|------|------|----|------|----------------|
| 3000K | >80 | 120° | 2000 | 18 | 111 | 1004-T84Δ-3001 |
| 4000K | >80 | 120° | 2100 | 18 | 116 | 1004-T84Δ-4001 |
| 5000K | >80 | 120° | 2200 | 18 | 122 | 1004-T84Δ-5001 |

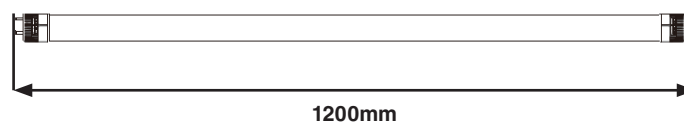
Δ Cover finish type. Input one of the following when ordering: C = Clear | F = Frosted

| OPTICAL | |
|------------------|----------|
| Duv ⁵ | < ±0.006 |

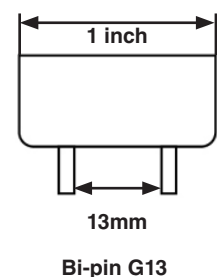
1. Tolerances as per ANSI C78.377-2008 Nominal CCT categories
2. CRI refers to the "General CRI" described as Ra in CIE 13.3
3. Lifetime as defined by IESNA LM-80
4. Compatible with ANSI C78.21-2011 dimensional requirements
5. Duv values and tolerances as per ANSI C78.377-2008 Nominal CCT, Table 1, page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

| GENERAL | | ELECTRICAL | |
|----------------------------|--------------|-------------------------|------------------|
| Min. lifetime ³ | 50,000 hours | Operating voltage range | 120-277 VAC |
| Base type | G13 | Power factor | > 0.90 |
| Weight | 13.3 oz | IP Rating | Non-weatherproof |
| Dimensions ⁴ | T8 | | |

DIMENSIONS



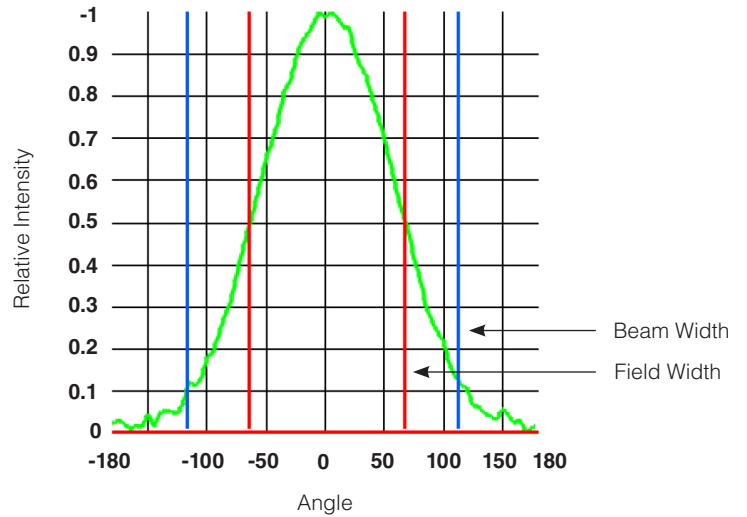
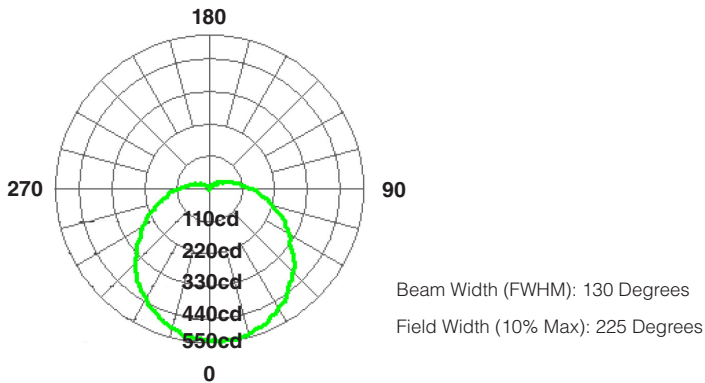
BASE TYPE



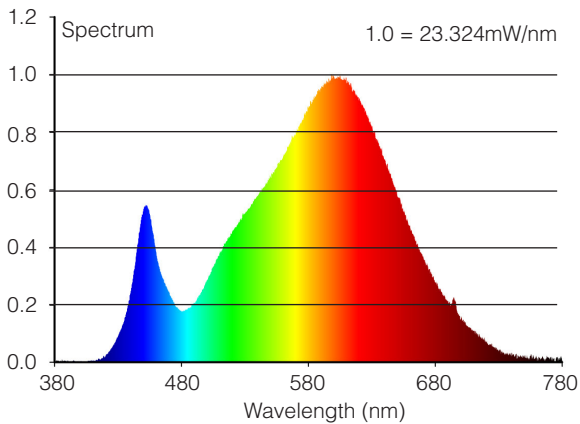
T8 TRANSFORMER COMPATIBILITY (North America)

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).

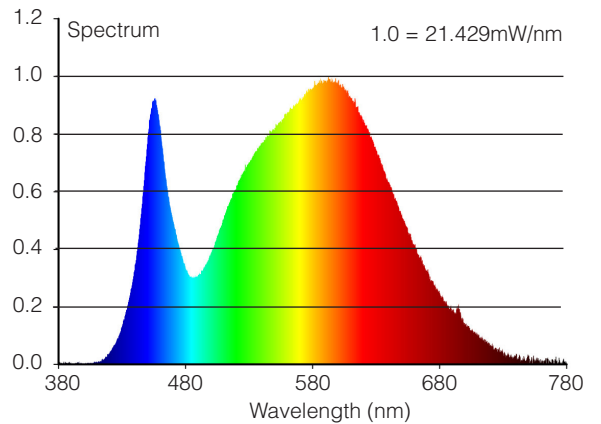
POLAR INTENSITY DIAGRAMS 3000K / 4000K



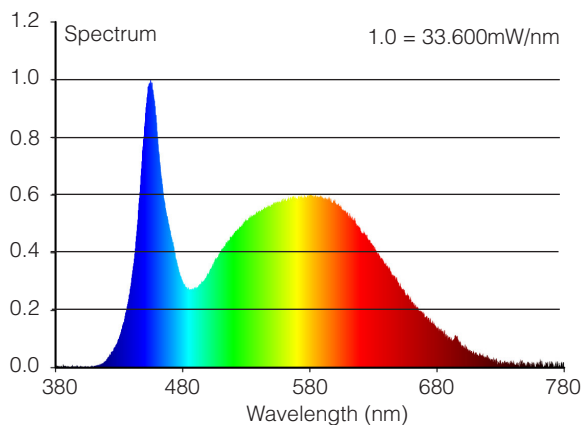
SPECTRAL POWER DISTRIBUTION 3000K



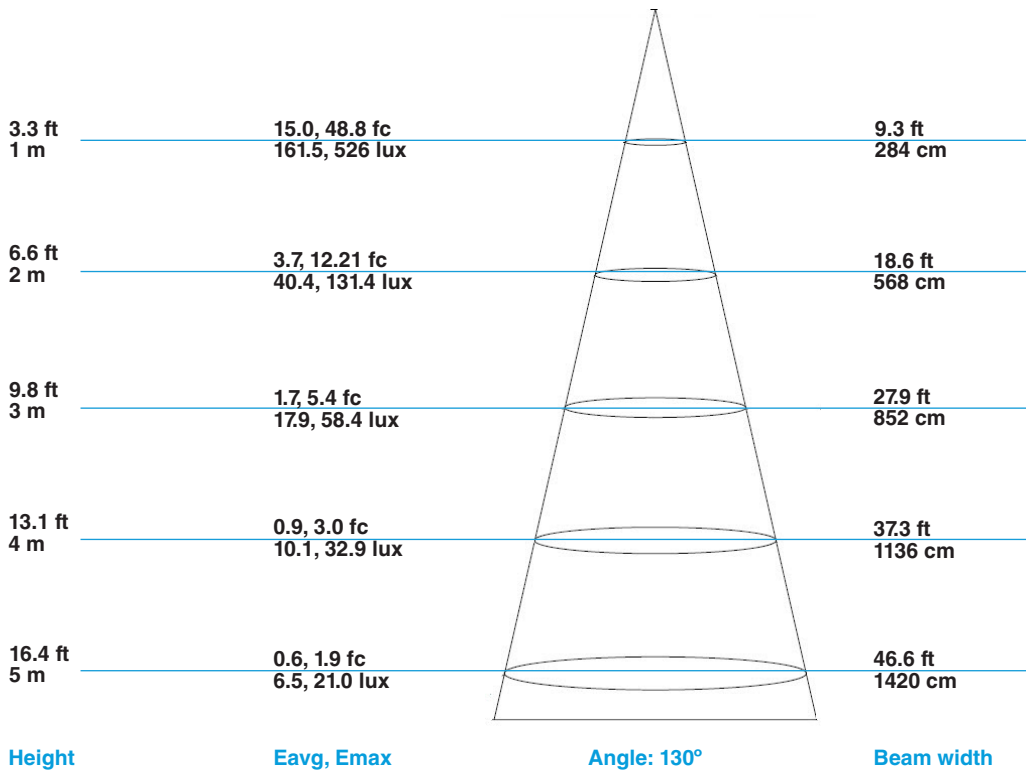
4000K



5000K



BEAM ANGLES



Curves = illuminated area and the average illumination when the luminaire is at different distance

APPLICATION NOTES

UL approved for dry locations

Ambient temperature within -20 to +40 °C. The lamp body temperature is 50 °C (ideal temperature) when ambient temperature is 25 °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/>.

