



**Product Number:** 26253

**Order Abbreviation:** FM13/830

**General Description:** 13W, T2 Subminiature fluorescent lamp, Designer 800 rare earth phosphor, 3000K color temperature, 80 CRI

Product Information	
Abbrev. With Packaging Info.	FM13830 20/CS 20/SKU
Actual Length (in)	20.591
Actual Length (mm)	523.00
Average Rated Life (hr)	10000
Base	Axial
Bulb	T-2
Color Rendering Index (CRI)	80
Color Temperature/CCT (K)	3000
Diameter (in)	0.276
Diameter (mm)	7.00
Family Brand Name	Subminiature FM
Initial Lumens at 25C	930
Mean Lumens at 25C	837
Nominal Length (in)	20.594
Nominal Length (mm)	523.10
Nominal Wattage (W)	13.00



#### Footnotes

- Due to their small diameter, T2 miniature fluorescent lamps operate at higher surface temperatures than other fluorescent lamps. To avoid possible burns, do not touch the lamp during operation and allow sufficient cooling time before removing the lamp from the fixture. The typical bulb wall temperature during operation is 120 degrees at the ends. The maximum allowable bulb wall temperature is 150 degrees C. To avoid electrical shock, turn electrical power off before removing or installing the lamp.
- Approximate initial lumens after 100 hours operation.
- The life ratings of fluorescent lamps are based on 3 hr. burning cycles under specified conditions and with ballast meeting ANSI specifications. If burning cycle is increased, there will be a corresponding increase in the average hours life.
- Lumen output and life rated on high frequency operation.
- Minimum starting temperature is a function of the ballast; consult the ballast manufacturer.
- There is a NEMA supported, industry issue where T2, T4, and T5 fluorescent and compact fluorescent lamps operated on high frequency ballasts may experience an abnormal end-of-life phenomenon. This end-of-life phenomenon can result in one or both of the following: 1. Bulb wall cracking near the lamp base. 2. The lamp can overheat in the base area and possibly melt the base and socket. NEMA recommends that high frequency compact fluorescent ballasts have an end-of-life shutdown circuit which will safely and reliably shut down the system in the rare event of an abnormal end-of-life failure mode described above. The final requirements of this system are yet to be defined by ANSI. For additional information refer to NEMA papers on their WEBSITE at [www.NEMA.org](http://www.NEMA.org).
- Use only with electronic ballasts which have been specifically designed to operate T2 miniature fluorescent lamps and to reliably and safely control all lamp operating modes including end-of-lamp-life sensing circuitry. If a non-conforming ballast is used, very high temperatures (350 degrees C typical) may be generated at the ends of the lamp especially during end-of-lamp-life operation, causing the lamp to crack and resulting in potential fire, electrical shock, or burn hazards.