TCP Item Number: 31028T5835  Lamp code: F28T5/835

**Average Rated Life (hours)**
- 3 hours per start: 24,000

**TCLP Compliant**: Yes
**Low Mercury**: Yes

### Physical Characteristics

- **Lamp type**: T5
- **Base type**: Miniature Bipin
- **Lamp Material**: Soda Lime
- **Phosphor**: Tri-Phosphor
- **Lamp Diameter (inches)**
  - Nominal (D): 0.625
  - Maximum (D): 0.670
- **Overall Length (inches)**
  - Nominal (C): 45.2
  - Maximum (C): 45.8
- **Face to End of opposing pin (inches)**
  - Maximum (B): 45.52
  - Minimum (B): 45.42

### Photometric Characteristics

- **Initial Lumens**: 2900
- **Mean Lumens (40% of rated life)**: 2750
- **Correlated Color Temperature (Kelvin)**: 3500
- **Color Rendering Index (CRI)**: 85
- **Normal Efficacy (Lumens/Watts)**: 103

### Electrical Characteristics

- **Lamp Watts**: 28
- **Nominal Lamp Volts**: 167
- **Nominal Lamp Operating Frequency (Hz)**: 50-60 Hz
- **Min. Starting Temperature (°C)**: -20
- **Min. Starting Lamp Voltage at 10°C**: 425
- **Min. Cathode Resistance (Rh/Rc)**: 4.25
- **Max. Cathode Resistance (Rh/Rc)**: 6.5

### Spectral Power Distribution

- **WAVELENGTH (nm)**
  - 350       400        450       500       550        600       650       700       750
- **Normalized Spectral Power - W/ nm per 1000 lm**

### Lamp Lumen Maintenance

- **Operating time (hours) vs. Lamp Lumen Maintenance Factor (%)**
  - 10000 15000 20000 25000 30000
  - 100
  - 90
  - 80
  - 70
  - 60
  - 50

### Typical Lamp Mortality

- **Operating time (hours) vs. Typical Lamp Mortality (%)**
  - Non-Preheat Start  Preheat Start
  - 0 5000 10000 15000 20000 25000 30000
  - 100
  - 90
  - 80
  - 70
  - 60
  - 50

*Testing performed with Instant Start Ballast.*