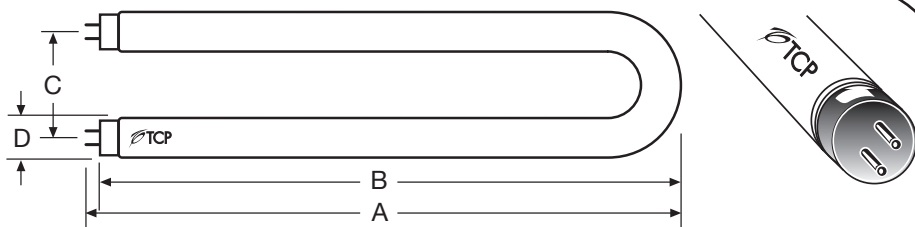


TCP Item Number: 31031841U1
 Lamp code: FB31T8/841/1



Average Rated Life (hours) ----- 20,000
 TCLP Compliant ----- Yes
 Mercury Content (mg) ----- 8.0

Physical Characteristics

Lamp type ----- T8
 Base type ----- BiPin (G13)
 Lamp Material ----- Soda Lime
 Phosphor ----- Tri-Phosphor
 Lamp Diameter (inches)
 Nominal (D) ----- 1.00
 Maximum (D) ----- 1.10
 Minimum (D) ----- 0.94
 Base Center to Base Center (inches) (C) --- 1.625
 Base Face to Top of Lamp (inches) (B) ---- 22.325
 Nominal Overall Length (inches) (A) ----- 22.50

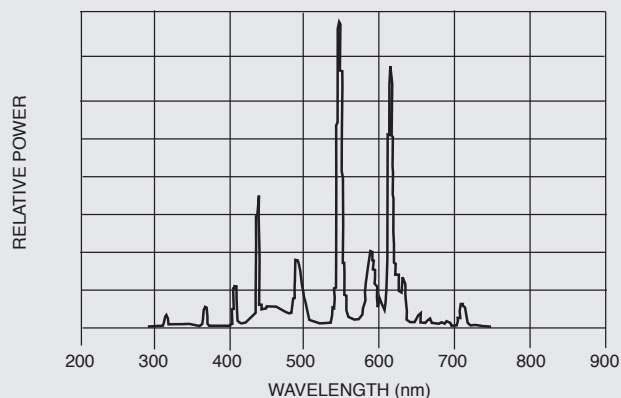
Physical Characteristics

Initial Lumens ----- 2750
 Mean Lumens (40% of rated life) ----- 2600
 Correlated Color Temperature (Kelvin) ----- 4100
 Color Rendering Index (CRI) ----- 85
 Normal Efficacy (Lumens/Watts) ----- 89

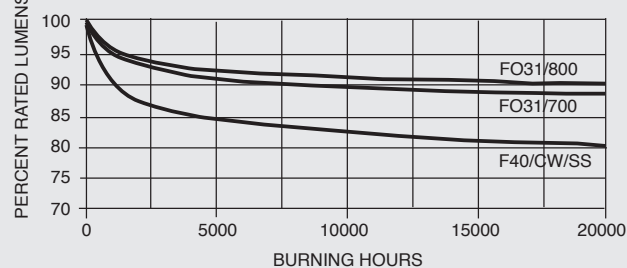
Physical Characteristics

Lamp Watts ----- 31
 Nominal Lamp Volts ----- 135
 Nominal Lamp Operating Frequency (Hz) -- 50-60 Hz
 Min. Starting Lamp Voltage at 10°C ----- 300
 Filament Volts (V) ----- 3.4
 Max. Current Crest Factor ----- 1.7

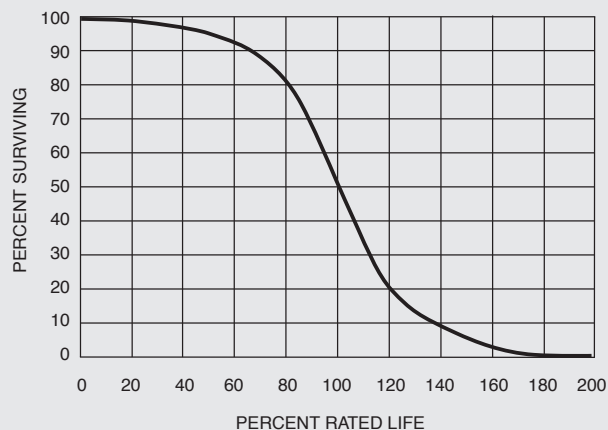
Spectral Power Distribution



Lamp Lumen Maintenance



Typical Lamp Mortality



24 MONTH
 STANDARD WARRANTY