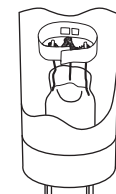
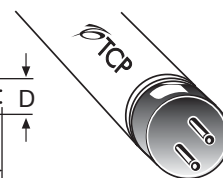
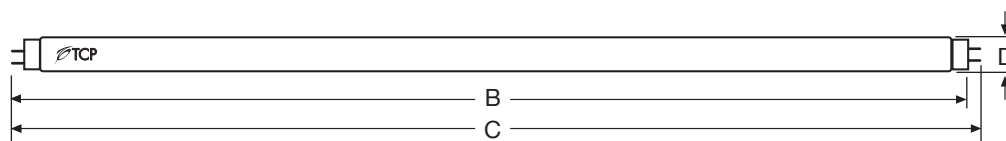




TCP Item Number: 31032841HL Lamp code: F32T8/841/HL



Cathode Guarded

Average Rated Life (hours)	
3 hours per start -----	24,000
TCLP Compliant -----	Yes
Low Mercury -----	Yes

Physical Characteristics

Lamp type -----	T8
Base type -----	Med. BiPin (G13)
Lamp Material -----	Soda Lime
Phosphor -----	Tri-Phosphor
Lamp Diameter (inches)	
Nominal (D) -----	1.00
Maximum (D) -----	1.10
Minimum (D) -----	.94
Overall Length (inches)	
Nominal (C) -----	48.00
Maximum (C) -----	47.78
Minimum (C) -----	47.67
Face to End of opposing pin (inches)	
Maximum (B) -----	47.50
Minimum (B) -----	47.40

Photometric Characteristics

Initial Lumens -----	3100
Mean Lumens (40% of rated life) -----	2945
Correlated Color Temperature (Kelvin) -----	4100
Color Rendering Index (CRI) -----	85
Normal Efficacy (Lumens/Watts) -----	97

Electrical Characteristics

Lamp Watts -----	32
Nominal Lamp Volts -----	137
Nominal Lamp Operating Frequency (Hz) -	50-60 Hz
Min. Starting Temperature (Degrees C) ---	10°
Min. Starting Lamp Voltage at 10°C -----	300
Min. Cathode Resistance (Rh/Rc) -----	4.25
Max. Cathode Resistance (Rh/Rc) -----	6.5

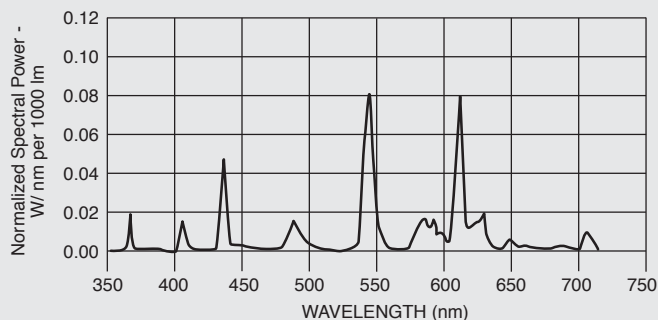
Miscellaneous

TCLP Compliant -----	Yes
Low Mercury -----	Yes

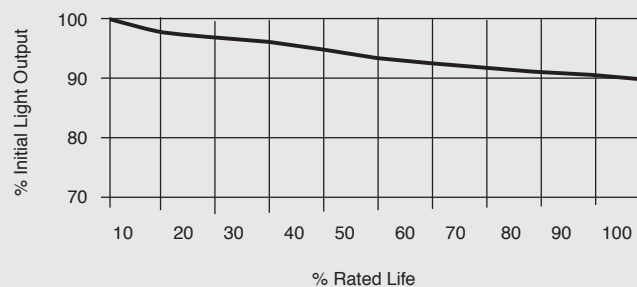
24 MONTH STANDARD WARRANTY

For the most up-to-date specs, please visit www.tcp.com

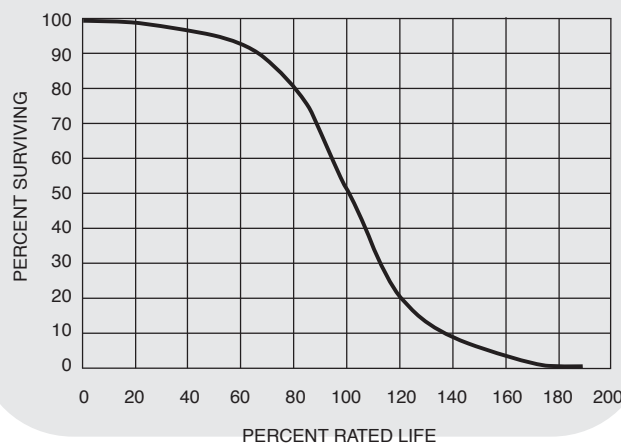
Spectral Power Distribution



Lamp Lumen Maintenance



Typical Lamp Mortality



*Testing performed with Instant Start Ballast.