## **Product Information Bulletin**

# 650-Watt FRK and FRL CP/89 Tungsten Halogen Lamps

# Medium to High Voltage Single Ended Lamps for Stage and Studio Applications



FRK and FRL CP/89 lamps bring increased opportunities for all stage, studio, TV, motion picture and architectural applications with superior light performance and maximum efficacy.

- Single-ended efficient tungsten halogen lamps
- High lumen output and continuous spectrum
- Provides a smoother, maximum light collection efficiency
- Optimum fixture performance
- Solid nickel pins and base improve durability and prevent any breakage during installation
- Optimized compact coil design provides excellent uniformed Illuminance and beam control
- Corrosion resistant base and high temperature seal to withstand extreme operating conditions minimizing risk of arc-out
- Maximum system efficiency in 650 Watt FRESNELS –
   (Mole Richardson Tweenie II, ARRI 650, Lowel 650, LTM
   Pepper 650, Altman 650, Strand Bambino 650, etc.)

## **Specification Information**

Lamp / order reference	FRK	FRL CP/89	
Electrical data:			
Rated lamp wattage (power)	650	650	W
Rated lamp voltage	120	230	V
Photometric data:			
Luminous flux	16,900	16,250	lm
Color temperature	3,200	3,200	K
Geometrical data:			
Light center length / LCL (a)	46.5	46.5	mm
Diameter (d)	19	22	mm
Maximum overall length / MOL (I)	90	90	mm
Filament dimensions w x h	16X18.5	11X11	mm
Other data:			
Average service life	200	150	hrs
Base	GY9.5 Bipin	GY9.5 Bipin	
Coil	C-13D	C-13	
Bulb	T6	T7	
Operating limits:			
max. seal temperature	500	500	°C
Operating position	s90	s90	



## **Application Information**

- Theater, TV, Studio
- Entertainment and Architectural
- Ellipsoidal Spotlights, Follow Spots, Fresnel Lens Spotlights, Scoops, Video and Photo Lights
- Strip Lights for Border or Cyclorama

#### WARNING

This lamp emits ultraviolet (UV) radiation and operates at high internal pressure. **Before use** read the complete warning accompanying the product.

### **Disposal**

When disposing of spent lamps, always consult federal, state, local and provincial hazardous waste disposal rules and regulations to ensure proper disposal.

## **Ordering Information**

Lamp Description	NAED Code	Standard Case Quantity
FRK	54631	24/case
FRL CP/89	54638	24/case

For Orders and General Information

# In the United States OSRAM SYLVANIA

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