



# Electro Optical Components, Inc.

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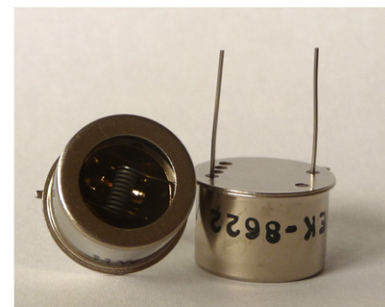
**NEW  
PRODUCT!**

## STEADY STATE IR SOURCE Model EK-8622

HelioWorks, Inc. offers a unique steady state black body infrared emitter in an industry standard TO-8 package with a Calcium Fluoride (CaF<sub>2</sub>) window that provides transmission to over 9 microns. Input power is over 8 Watts at up to 1050° C (1323° K).

### Key Features Include:

- Kanthal Filament with Emissivity = 0.7
- Over 8 Watts input power at 1050° C (1323° K)
- Calcium Fluoride (CaF<sub>2</sub>) Window
- Internal Gold Plated Parabolic Reflector
- Industry Standard TO-8 Package



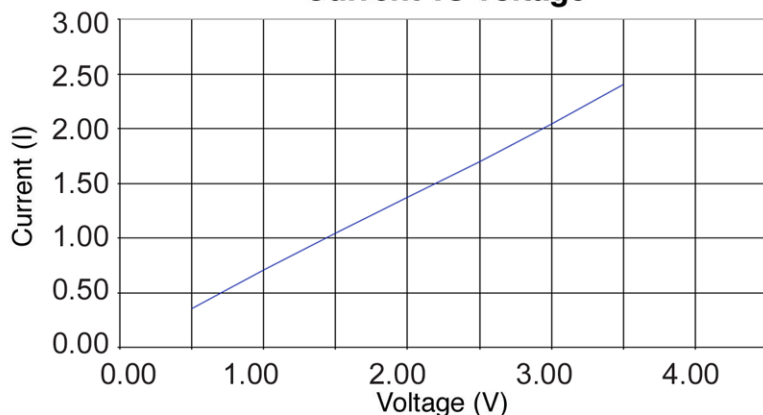
### Electrical Specification:

Peak Voltage = 3.5 Volts MAXIMUM

Peak Current = 2.40 Amps

Peak Power = 8.40 Watts

### Current vs Voltage

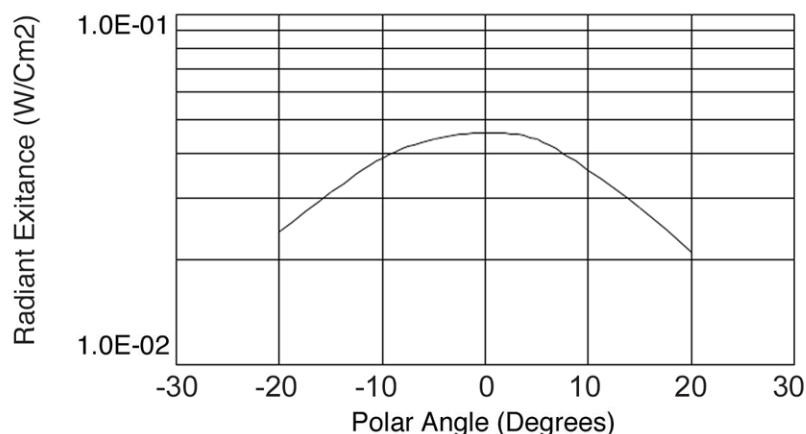


| V    | I    | W=VI | R=V/I |
|------|------|------|-------|
| 0.50 | 0.35 | 0.18 | 1.42  |
| 1.00 | 0.70 | 0.70 | 1.42  |
| 1.50 | 1.04 | 1.56 | 1.44  |
| 2.00 | 1.37 | 2.74 | 1.46  |
| 2.50 | 1.70 | 4.25 | 1.47  |
| 3.00 | 2.04 | 6.12 | 1.47  |
| 3.50 | 2.40 | 8.40 | 1.46  |

Approximate 1323° K

### Radiant Exitance

Volts = 3.5, Distance = 3.0 inches from source



| Polar Angle | Average Intensity<br>(Watts/Cm2) |
|-------------|----------------------------------|
| -20         | 2.40E-02                         |
| -15         | 3.10E-02                         |
| -10         | 3.90E-02                         |
| -5          | 4.40E-02                         |
| 0           | 4.60E-02                         |
| 5           | 4.40E-02                         |
| 10          | 3.60E-02                         |
| 15          | 2.80E-02                         |
| 20          | 2.10E-02                         |