HELIOWORKS

"Out Shines All Others"

STEADY STATE **IR** SOURCE
Model EK-3430

NEW PRODUCT!

HelioWorks, Inc. offers a unique steady state black body infrared emitter in an industry standard TO-3 package with nearly 12 Watts input power at up to 950°C (1223°K). It has no window and therefore emits the full unattenuated blackbody spectrum. Other window options are available.

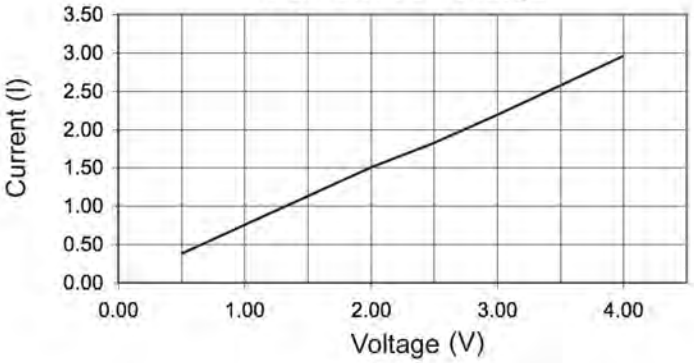


Key features include:

- Kanthal Filament with Emissivity = 0.7
- Approximately 12 Watts input at 950°C (1223°K)
- Emits full BB spectrum with No Window
- Internal Gold Plated Parabolic Reflector
- Industry Standard TO-3 Package
- Clear aperture = 0.540 inches

Electrical Specifications:
Peak Voltage = 4.0 Volts MAXIMUM
Peak Current = 2.96 Amps
Peak Power = 11.84 Watts

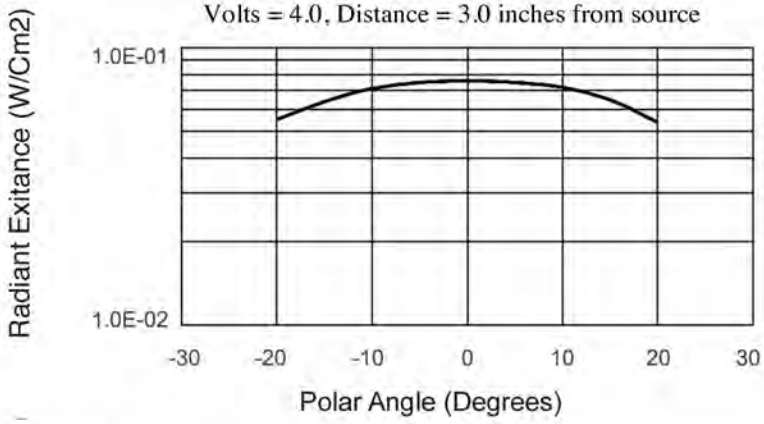
Current vs Voltage



Volts	I(Amps)	V/I (Ohms)	V*I (W)
0.50	0.38	1.32	0.19
1.00	0.75	1.33	0.75
1.50	1.13	1.33	1.70
2.00	1.50	1.33	3.00
2.50	1.82	1.37	4.55
3.00	2.19	1.37	6.57
3.50	2.57	1.36	9.00
4.00	2.96	1.35	11.84

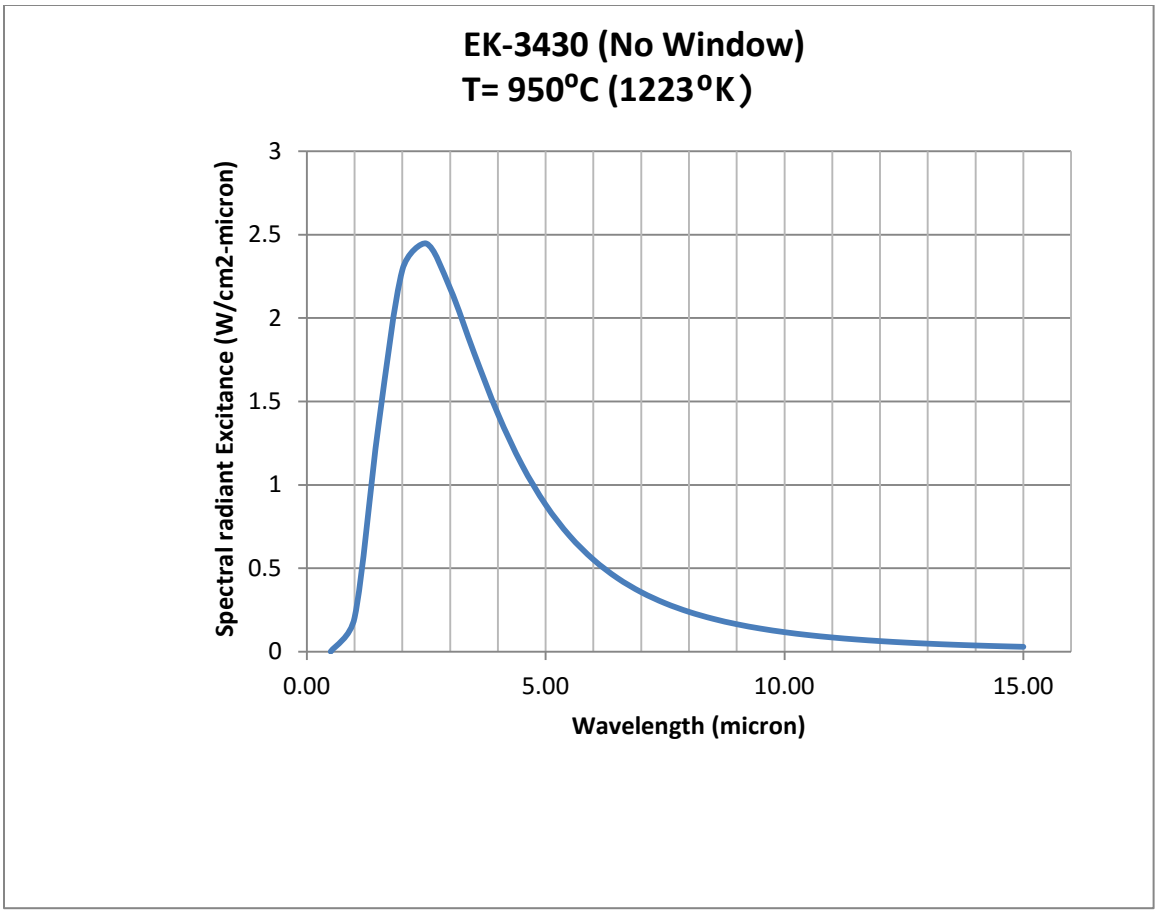
Radiant Exitance (Watts/Cm2)

Volts = 4.0, Distance = 3.0 inches from source



Polar Angle	Average (W/Cm2)
-20	5.50E-02
-15	6.40E-02
-10	7.10E-02
-5	7.50E-02
0	7.60E-02
5	7.50E-02
10	7.20E-02
15	6.50E-02
20	5.40E-02

HelioWorks, Inc. • 1275 4th Street, Santa Rosa, CA 95404 USA
Tel: (707) 578-7200 • Fax: (707) 578-7200 • www.helioworks.com • info@helioworks.com


EK-3430 (No Window)
T= 950°C (1223°K)
Spectral radiant Excitance (W/cm2-micron)
3
2.5
2
1.5
1
0.5
0
0.00
5.00
10.00
15.00
Wavelength (micron)