



Zinc & Cadmium Analamps®

Features

- *Short Wave UV Radiation*
- *High Light Output Stability*
- *Efficient Two Port Output*
- *Low Noise*
- *Custom Designs and Configurations*
- *Guaranteed Dependable Performance*
- *Special Vacuum Jacket Construction*
- *High Frequency Power Supplies Available*
- *ISO 9001: 2000 Certified*

Applications

- **Analytical Instruments**
- **Wavelength Calibration**
- **Spectroscopy**
- **Interferometers**
- **HPLC Instruments**
- **Air Pollution Monitoring**
- **Photochemical Studies**

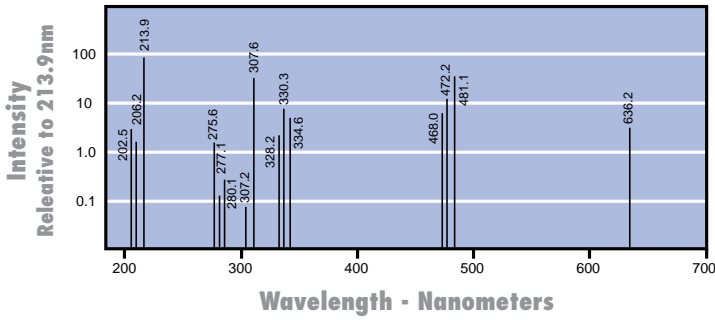
Low pressure **Zinc** and **Cadmium** lamps are major sources of extreme short wave UV radiation. They produce a strong spectral line source at **213.9 nm for Zinc** and **228.8 nm for Cadmium**. The lamps are constructed using a special vacuum jacket around the double bore lamp body and heat shield. The jacket isolates the lamp body, with the zinc or cadmium arc, from the external environment. This gives the lamp body excellent temperature stability resulting in very low noise and steady lamp intensity that is relatively independent of external temperature fluctuations. The radiance from the lamp comes from two ports located on opposite sides of the lamp. This radiance can be used from both ports simultaneously, from a single port, and from any portion of the arc.

These lamps are available with either radial or axial lead wire configurations and Silicon or Delrin end caps. Choose from a number of lead wire and lead termination options as shown in the Parts Selection Chart. For OEM applications BHK can design custom lead and connector terminations.

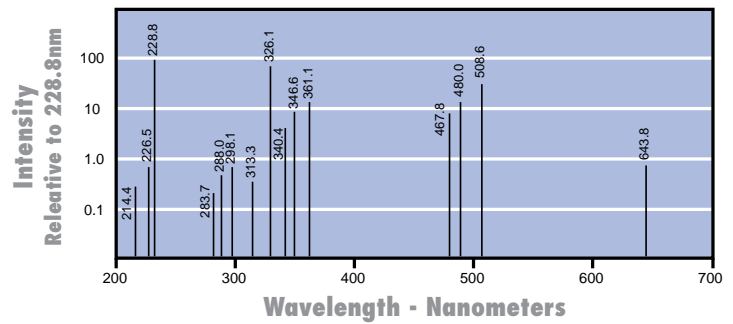


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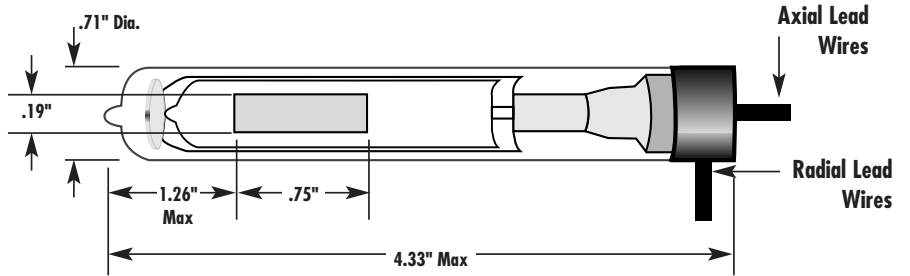
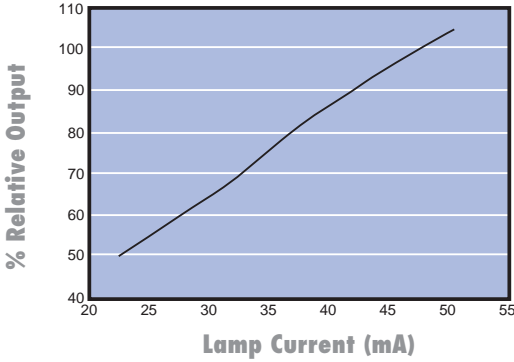
Zinc Emission Data



Cadmium Emission Data

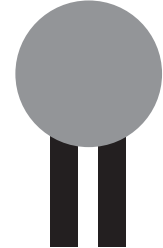


Light Output vs. Current

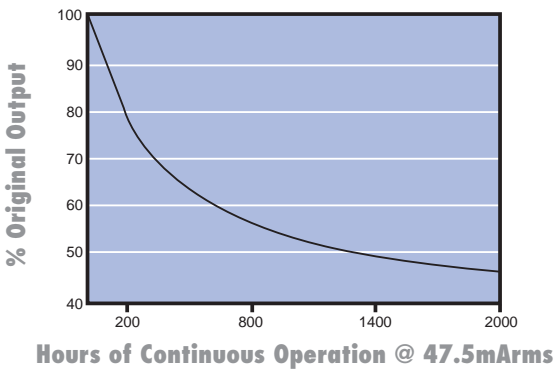


Axial End View

Radial End View



Light Output vs. Time



Lead Terminations

TYPE	DESCRIPTION
1	STRIP, AXIAL 1/4" INSULATION
2	STRIP, RADIAL 1/4" INSULATION
3	RADIAL CONNECTOR
4	AXIAL CONNECTOR

	P/N	SPECTRAL AND ELECTRICAL							DIMENSIONAL DATA					
		PEAK λ (nm)	MINIMUM INTENSITY (μW/cm²/nm) @ 1 Meter	LAMP NOISE Note 1	DRIFT (Per Hr) Note 2	TYPICAL WARM-UP TIME Note 3	START V (Vrms) MAX.	TYPICAL OPER. V (Vrms) (±20%)	OPERATING CURRENT (mA)	* LEAD LENGTH	LEAD TERMINATIONS	PWR SUPPLY CONNECTOR REQ'D	LEAD TYPE	END CAP
ZINC	89-9020-01	213.9	≥0.19	≤0.1%	≤3%	10 Min.	1500	160	47.5	8"±1/4"	Type 1	Yes	Note 4	RTV
	89-9020-02	213.9	≥0.19	≤0.1%	≤3%	10 Min.	1500	160	47.5	8"±1/4"	Type 2	Yes	Note 4	RTV
CAD	89-9020-21	228.8	≥0.47	≤0.06%	≤2%	10 Min.	1500	120	47.5	8"±1/4"	Type 1	Yes	Note 4	RTV
	89-9020-22	228.8	≥0.47	≤0.06%	≤2%	10 Min.	1500	120	47.5	8"±1/4"	Type 2	Yes	Note 4	RTV
ZINC	89-9020-41	213.9	≥0.19	≤0.1%	≤3%	10 Min.	1500	160	47.5	12"±1/4"	Type 3	No		Delrin
	89-9020-42	213.9	≥0.19	≤0.1%	≤3%	10 Min.	1500	160	47.5	12"±1/4"	Type 4	No		Delrin
CAD	89-9020-51	228.8	≥0.47	≤0.06%	≤2%	10 Min.	1500	120	47.5	12"±1/4"	Type 3	No		Delrin
	89-9020-52	228.8	≥0.47	≤0.06%	≤2%	10 Min.	1500	120	47.5	12"±1/4"	Type 4	No		Delrin

Notes: 1. Single beam, time constant of 0.1 Sec. Wavelength of maximum intensity. 2. Taken under stable temperature conditions after 1 hour warmup.
3. To maximum light output. 4. All lamps have 2 pigtail leads (20KV 22Awg)

Standard lamp base is RTV Rubber or Delrin. Ceramic bases are available upon request.

Warranty: 1 year or 1000 hours to 50% of the minimum listed intensity.



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More Than A Lamp Manufacturer