450Ws Xenon Light Source

High Power Xenon Light Source:

Ideal for powerful illumination of samples, the FL-1039 housing is a Xenon light source of 450 W. This light source includes a focusing mirror which collects radiation from the lamp and couples it to a monochromator slit or other location outside of the housing. The standard, Ozone-free version radiates from 250 nm to 2400 nm with a continuous emission spectrum and lines above 600 nm. The light source is also available in a far UV version, which emits from 180 nm. Coupled with a single or double monochromator, this lamp acts as an extremely efficient, tuned monochromatic light source and is commonly used in the UV-Vis spectral range (180 nm – 1000 nm) as an excitation source.

Technical Specifications:

Standard FL-1039 Xenon Light Source:

Light Source: 450 W Ozone-free Xenon lamp with a regulated DC power supply
Focused image size: 18 mm x 18 mm
Aperture: F/4
Lamp Lifetime : 2000 hours

Far UV FL-1039 Xenon Source:

A modified version of the FL-1039 Xenon light source integrates a 450 W Xenon lamp with a Suprasil bulb, which emits radiations as low as 180 nm. This light source requires the use if an Ozone extractor. Please, contact the factory for more details.

Monochromator Compatibility:
The FL-1039 housing can be adapted to a Gemini 180 double monochromator, or to a single monochromator such as Triax or MicroHR. Contact us to discuss spectrometer model compatibility.

Accessories:
Due to the heat emitted by this light source, it is recommended that accessories be placed at the exit of the monochromator.

Features

- Integrated 450 W Xenon lamp with power supply
- Ozone-free (250 – 2400 nm) or far UV (180 – 2400 nm) versions available
- Ideal as a tunable monochromatic light source between 200 and 1000 nm , when coupled with a single or double monochromator
- Very high throughput
- Compatible with Triax Series, Gemini 180 and MicroHR monochromators
- 2000 hour lamp lifetime

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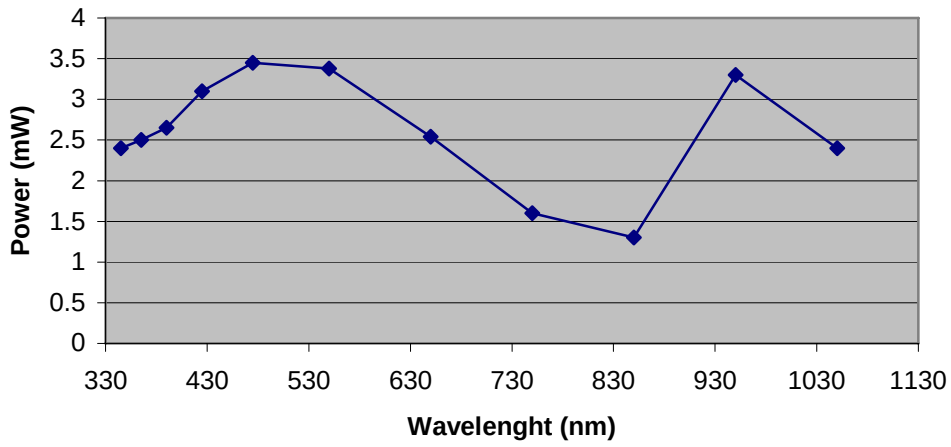
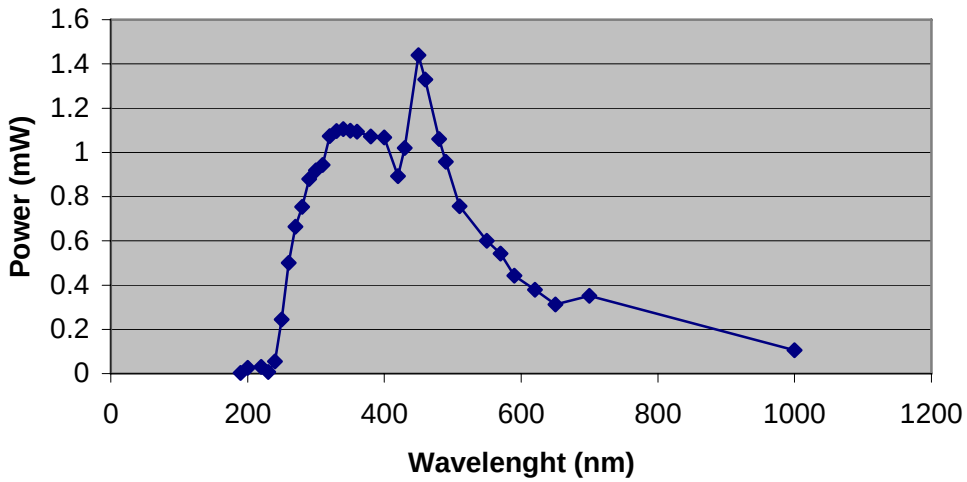
Example of Visible Irradiance (*)



Typical throughput of a 450 W Xenon light source coupled to a Triax 180 with a 1200 gr/mm grating blazed at 400 nm. The measurement was made at the exit slit of the Triax with a 1500 µm core fiber coupled to an elliptical mirror with a 6:1 reduction.

Slits (entrance/exit) width = 2 mm, Bandpath = 7 nm.

Example of UV Irradiance (*)



Typical throughput of a 450 W Xenon light source coupled to a Triax 180 with a 1200gr/mm grating blazed at 330 nm. The measurement has been made directly at the exit slit of the Triax.

Slits (entrance/exit) width = 1 mm, Bandpath = 3.5 nm.

(*) Measurements are monochromator and grating dependent

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