



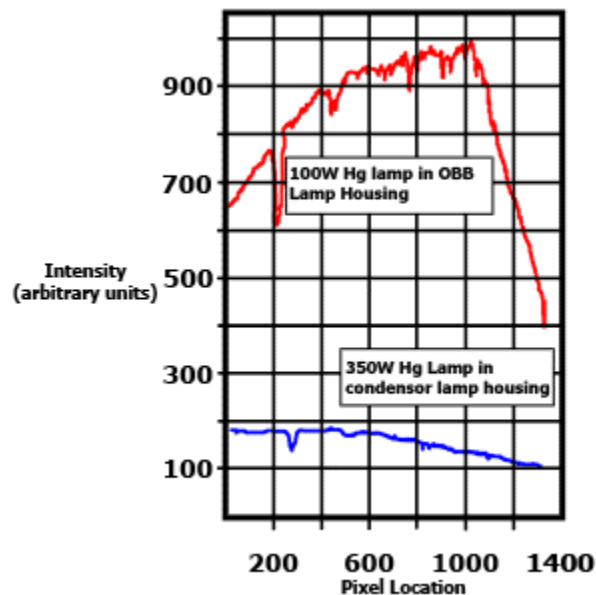
Comparative Field-Test

Comparative field-test results:

“High Efficiency lamp housing yields 20X better sensitivity...lower operating cost.”

In an independent comparison of OBB’s Lamp Housing with elliptical reflector vs. a competitor’s condenser (lens/reflector) housing, a 100 watt Hg lamp was mounted in the OBB Lamp Housing, and a 350 watt Hg lamp was mounted in the competitor’s conventional lamp housing. Both lamps were focused through the same monochromator, and then imaged onto a capillary flow cell “sample”. The flow cell emission was then imaged onto a line scan camera, with each pixel representing 1 mm of sample length.

As the attached graphs indicate, the smaller OBB lamp housing produced 5.5 times *more emission signal* with the *less expensive* 100 watt lamp than the larger, conventional lamp housing produced with the more expensive 350 watt lamp.



Test and data courtesy of Dr. Heinrich Roder, Fox Chase Cancer Institute, Phila., Pa.

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