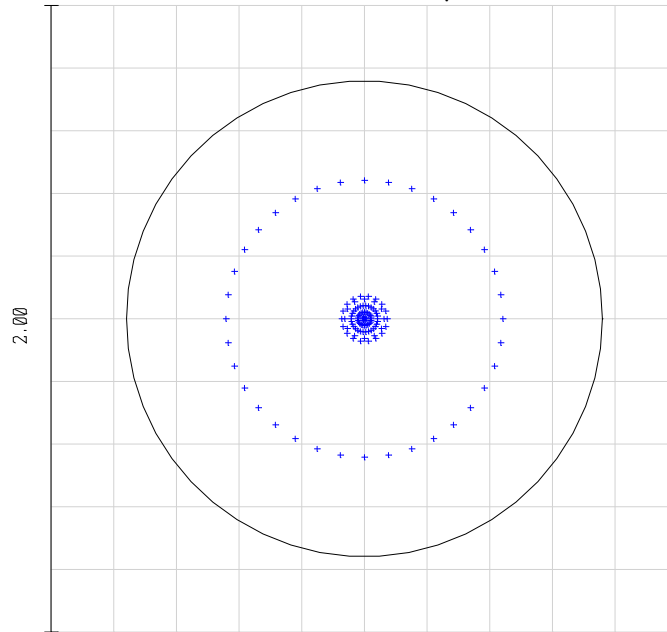


Spot Diagrams for Laser Quality Molded Glass Aspheric Lens A390

Note: Black circle on plots indicates Airy Disk.

At Design Wavelength 655 nm

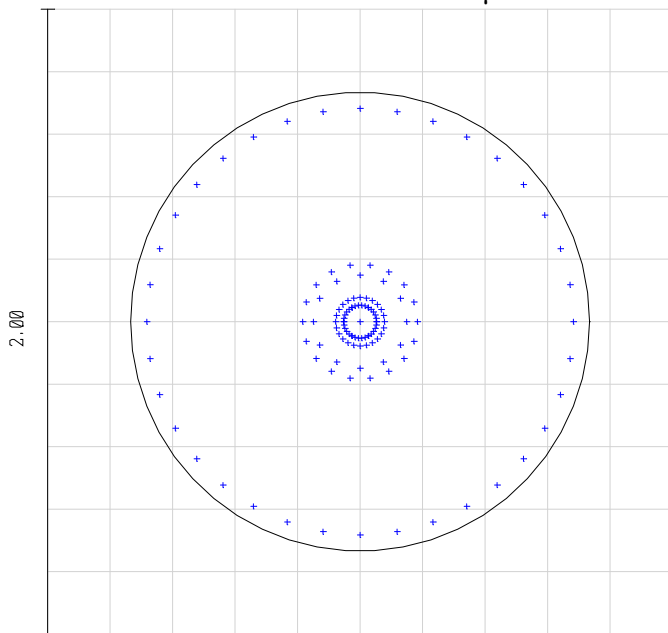
RMS Radius = 0.07 μm



Spot Diagrams for A-Coated Lens (A390-A)

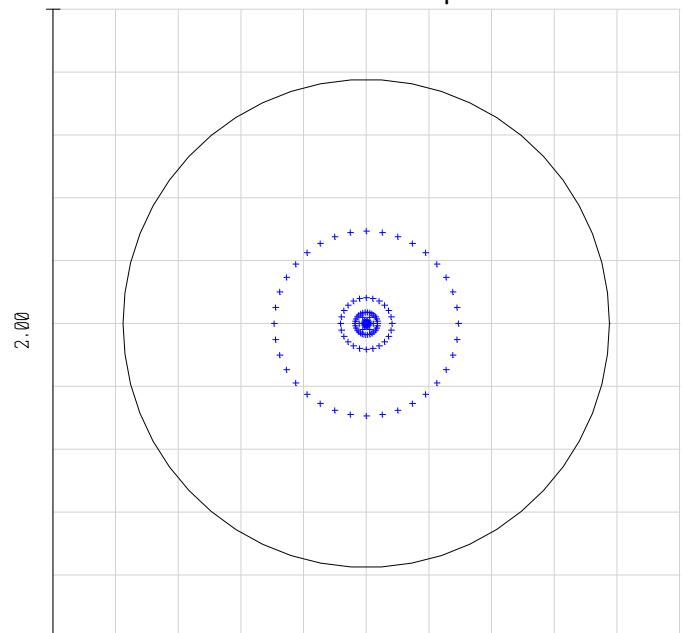
633 nm

RMS Radius = 0.38 μm



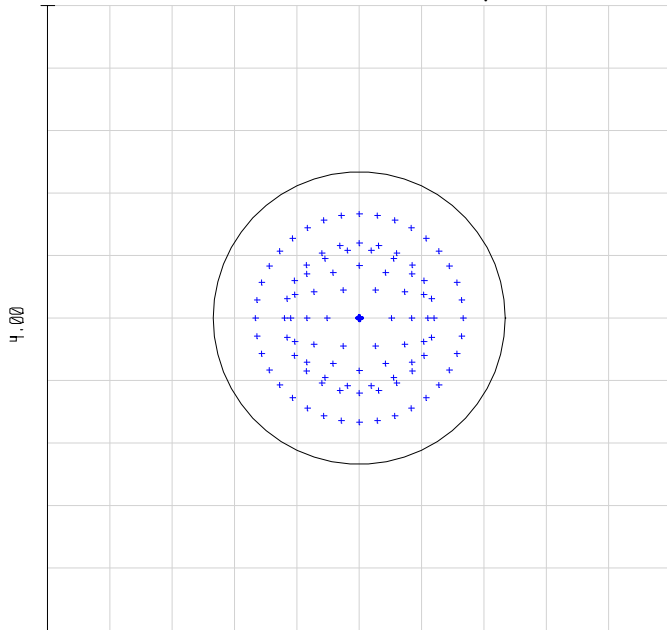
670 nm

RMS Radius = 0.16 μm

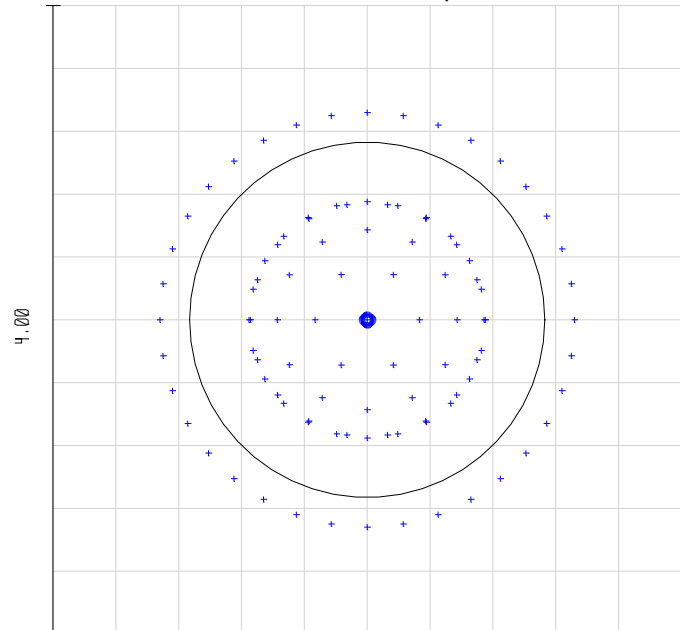


Spot Diagrams for B-Coated Lens (A390-B)

810 nm
RMS Radius = 0.46 μm

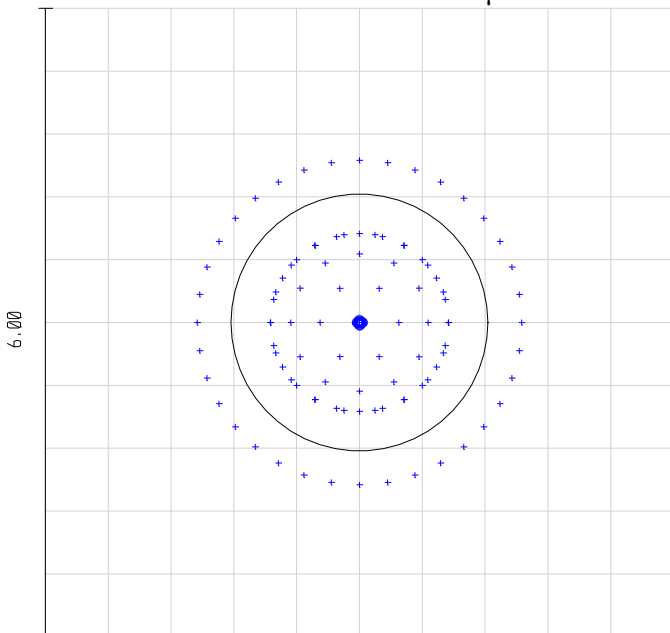


980 nm
RMS Radius = 0.85 μm

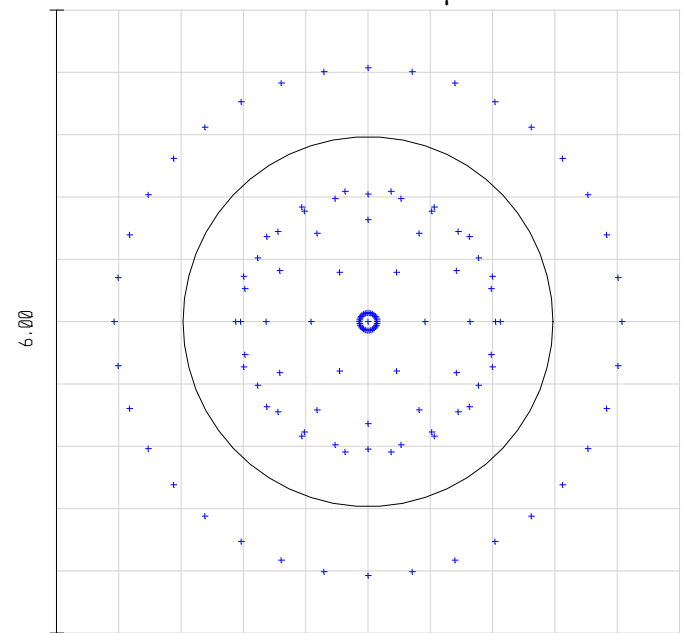


Spot Diagrams for C-Coated Lens (A390-C)

1064 nm
RMS Radius = 0.98 μm



1550 nm
RMS Radius = 1.52 μm



Chromatic Focal Shift

Maximum Focal Shift Range: 349.15 μm (350 – 1620 nm)

Diffraction Limited Range: 2.37 μm

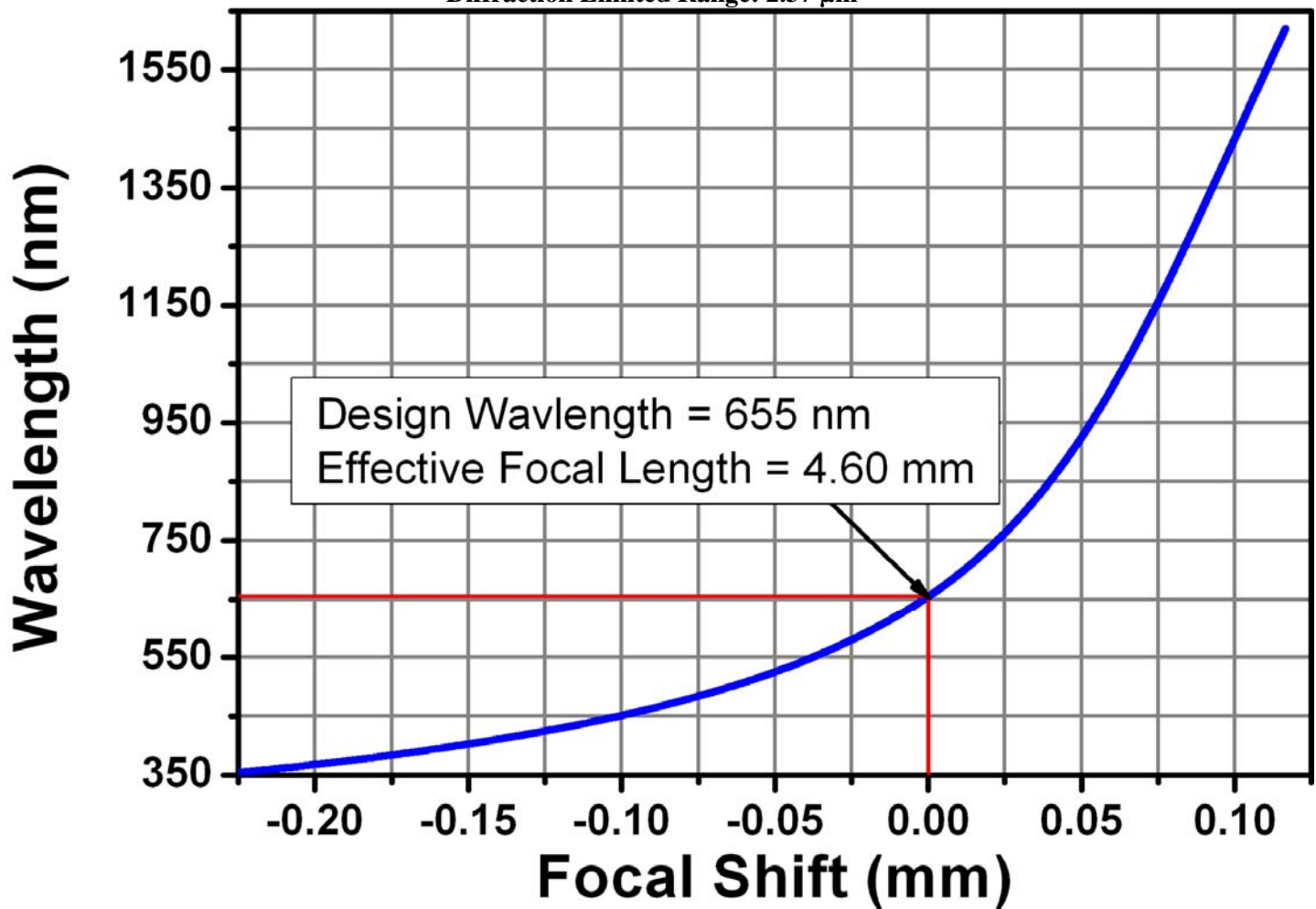


Table showing the focal length at various laser line wavelengths

| Wavelength (nm) | Focal Length (mm) |
|------------------|-------------------|
| 405 | 4.423 |
| 633 | 4.586 |
| 655 ¹ | 4.593 |
| 780 | 4.627 |
| 810 | 4.633 |
| 830 | 4.637 |
| 980 | 4.662 |
| 1064 | 4.673 |
| 1550 | 4.728 |

¹ Design Wavelength