

M² Test Protocol

General Information: test has been performed in accordance with ISO 11146.

Date (MM-DD-YYYY)05-07-2026 Time: 15:15:37

Information Concerning Testing and Evaluation:

Thorlabs Beam, Version 9.1.5787.560
Measurement MethodClip Level at 1/e²
Serial Number: M00280451
Wavelength: 1064 nm
Min. Data Points: 50

Model: BP209-VIS
Profiler Azimuth Angle:
Scan Range: 0.00 - 200.00 mm

After Lens Results:

| Parameter: | Result: | Unit: |
|--------------------------|---------|-------|
| M² Value X' | 1.21 | |
| M² Value Y' | 1.19 | |
| Rayleigh Length X' | 22.82 | mm |
| Rayleigh Length Y' | 22.02 | mm |
| Waist Diameter X' | 193.12 | µm |
| Waist Diameter Y' | 188.79 | µm |
| Waist Asymmetry | 0.98 | |
| Waist Position X' | 130.58 | µm |
| Waist Position Y' | 131.03 | µm |
| Astigmatism | 0.45 | mm |
| Relative Astigmatism | 0.02 | |
| Full Divergence Angle X' | 0.48 | ° |
| Full Divergence Angle Y' | 0.49 | ° |
| Divergence Asymmetry | 1.01 | |

Original Waist Results:

| Parameter: | Result: | Unit: |
|--------------------------|---------|-------|
| M² Value X' | 1.21 | |
| M² Value Y' | 1.19 | |
| Rayleigh Length X' | 1483.66 | mm |
| Rayleigh Length Y' | 1455.37 | mm |
| Waist Diameter X' | 1557.04 | µm |
| Waist Diameter Y' | 1534.91 | µm |
| Waist Asymmetry | 0.99 | |
| Waist Position X' | 1691.23 | µm |
| Waist Position Y' | 1744.62 | µm |
| Astigmatism | 53.39 | mm |
| Relative Astigmatism | 0.04 | |
| Full Divergence Angle X' | 0.50 | ° |
| Full Divergence Angle Y' | 0.56 | ° |
| Divergence Asymmetry | 1.00 | |

