

M² Test Protocol

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

Date (MM-DD-YYYY)05-08-2026 Time: 11:56:39

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: 10

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

After Lens Results:

| Parameter: | Result: | Unit: |
|--------------------------|---------|-------|
| M² Value X' | 1.27 | |
| M² Value Y' | 1.27 | |
| Rayleigh Length X' | 14.90 | mm |
| Rayleigh Length Y' | 13.67 | mm |
| Waist Diameter X' | 159.96 | µm |
| Waist Diameter Y' | 153.53 | µm |
| Waist Asymmetry | 0.96 | |
| Waist Position X' | 132.10 | µm |
| Waist Position Y' | 131.11 | µm |
| Astigmatism | 0.99 | mm |
| Relative Astigmatism | 0.07 | |
| Full Divergence Angle X' | 0.61 | ° |
| Full Divergence Angle Y' | 0.64 | ° |
| Divergence Asymmetry | 1.05 | |

Original Waist Results:

| Parameter: | Result: | Unit: |
|--------------------------|---------|-------|
| M² Value X' | 1.27 | |
| M² Value Y' | 1.27 | |
| Rayleigh Length X' | 1261.21 | mm |
| Rayleigh Length Y' | 1292.74 | mm |
| Waist Diameter X' | 1471.47 | µm |
| Waist Diameter Y' | 1492.85 | µm |
| Waist Asymmetry | 1.01 | |
| Waist Position X' | 2246.42 | µm |
| Waist Position Y' | 2384.03 | µm |
| Astigmatism | 137.61 | mm |
| Relative Astigmatism | 0.11 | |
| Full Divergence Angle X' | 0.07 | ° |
| Full Divergence Angle Y' | 0.07 | ° |
| Divergence Asymmetry | 0.99 | |

