

M² Test Protocol

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

Date (MM-DD-YYYY)05-07-2026 Time: 15:41:06

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'	1.40	
M² Value Y'	1.40	
Rayleigh Length X'	9.42	mm
Rayleigh Length Y'	8.20	mm
Waist Diameter X'	133.46	µm
Waist Diameter Y'	124.55	µm
Waist Asymmetry	0.93	
Waist Position X'	129.18	µm
Waist Position Y'	127.22	µm
Astigmatism	1.96	mm
Relative Astigmatism	0.22	
Full Divergence Angle X'	0.81	°
Full Divergence Angle Y'	0.87	°
Divergence Asymmetry	1.07	

Original Waist Results:

Parameter:	Result:	Unit:
M² Value X'	1.40	
M² Value Y'	1.40	
Rayleigh Length X'	1210.25	mm
Rayleigh Length Y'	1306.88	mm
Waist Diameter X'	1512.52	µm
Waist Diameter Y'	1571.98	µm
Waist Asymmetry	1.04	
Waist Position X'	2891.58	µm
Waist Position Y'	3207.54	µm
Astigmatism	315.96	mm
Relative Astigmatism	0.25	
Full Divergence Angle X'	0.87	°
Full Divergence Angle Y'	0.97	°
Divergence Asymmetry	0.96	

