

# LightPath 390028 | 8mm Dia., 0.56 NA, BBAR (3000-5000nm), Molded IR Aspheric Lens

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Stock #87-178 3-5 DAYS

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A\$656.00

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Diameter (mm):  
8.00 ±0.015

Effective Focal Length EFL (mm):  
5.95 @4100nm

Numerical Aperture NA:  
0.56

Substrate:

|                                                                                             |
|---------------------------------------------------------------------------------------------|
| Black Diamond™ BD-2 (Ge <sub>28</sub> Sb <sub>12</sub> Se <sub>60</sub> )                   |
| Aspheric Design Wavelength (nm):<br>4100                                                    |
| Coating:<br>BBAR (3000-5000nm)                                                              |
| Coating Specification:<br>R <sub>avg</sub> <1.0% @ 3 - 5μm                                  |
| Surface Quality:<br>80-50                                                                   |
| Clear Aperture CA (mm):<br>7.60                                                             |
| Edge Thickness ET (mm):<br>1.65                                                             |
| Center Thickness CT (mm):<br>2.50                                                           |
| f#:<br>0.89                                                                                 |
| Bevel:<br>Protective bevel as needed                                                        |
| Density (g/cm³):<br>4.68                                                                    |
| Index of Refraction n <sub>d</sub> @ 10μm:<br>2.6023                                        |
| Index of Refraction n <sub>d</sub> @ 14μm:<br>2.5843                                        |
| Index of Refraction n <sub>d</sub> @ 4μm:<br>2.6210                                         |
| Index of Refraction n <sub>d</sub> @ 5μm:<br>2.6173                                         |
| Lightpath Lens Code:<br>390028                                                              |
| Thermo-optic coefficient dn/dT:<br>70 x 10 <sup>-6</sup> /°C from -40° to +80°C (5 - 14 μm) |
| Transformation Temperature (°C):<br>285.00                                                  |
| Type:<br>Aspheric Lens                                                                      |
| Wavelength Range (nm):<br>3000 - 5000                                                       |
| Working Distance (mm):<br>5.00                                                              |
| Conjugate Distance:<br>Infinite                                                             |

## Regulatory Compliance

|                                                     |
|-----------------------------------------------------|
| RoHS 2015:<br><a href="#">Compliant</a>             |
| Certificate of Conformance:<br><a href="#">View</a> |
| Reach 233:<br><a href="#">Compliant</a>             |