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

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Stock #87-178 **16 In Stock**

€469⁰⁰

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Volume Pricing	
Qty 1-10	€469,00 each
Qty 11-49	€422,10 each
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Product Downloads

General

390028 **Lightpath Lens Code:**

Aspheric Lens **Type:**

Physical & Mechanical Properties

8.00 ±0.015 **Diameter (mm):**

7.60	Clear Aperture CA (mm):
1.65	Edge Thickness ET (mm):
2.50	Center Thickness CT (mm):
	Bevel:
Protective as needed	

Optical Properties

5.95 @4100nm	Effective Focal Length EFL (mm):
0.56	Numerical Aperture NA:
Black Diamond™ BD-2 (Ge ₂₆ Sb ₁₂ Se ₆₀)	Substrate: <input type="checkbox"/>
4100	Aspheric Design Wavelength (nm):
BBAR (3000-5000nm)	Coating:
R _{avg} <1.0% @3 - 5μm	Coating Specification:
80-50	Surface Quality:
0.89	f#:
2.6023	Index of Refraction (n_d) @ 10μm:
2.5843	Index of Refraction (n_d) @ 14μm:
2.6210	Index of Refraction (n_d) @ 4μm:
2.6173	Index of Refraction (n_d) @ 5μm:
3000 - 5000	Wavelength Range (nm):
5.00	Working Distance (mm):
Infinite	Conjugate Distance:
4100	Focal Length Specification Wavelength (nm):

Material Properties

14.00	Coefficient of Thermal Expansion CTE (10⁻⁶/°C):
4.68	Density (g/cm³):
70 x 10 ⁻⁶ /°C from -40° to +80°C (5 - 14 μm)	Thermo-optic coefficient dn/dT:
285.00	Transformation Temperature (°C):

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

Product Details

- Wavelength Range of 1.8 - 12μm
- Variety of Coating Options
- Mounted and Unmounted Versions

LightPath® Mid-Wave and Long-Wave Infrared (IR) Aspheric Lenses feature a low-cost, molded design and offer several key benefits over Germanium substrate aspheres. With a dn/dT and CTE significantly less than that of Germanium, the lenses feature a smaller change in focal length as a function of temperature change. Featuring a higher operating temperature than Germanium (which suffers 20 – 30% transmission loss at 100°C), the lenses can be used in applications including collimators for QCL lasers and as components within thermal imaging assemblies. LightPath Mid-Wave and Long-Wave Infrared (IR) Aspheric Lenses have a wavelength range of 1.8 - 12μm. These lenses are available mounted or unmounted, in a variety of coating options.

Technical Information

3.0 - 5.0 μ m AR Coating

