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# LightPath 355440 | 4.7mm Dia., 0.50 NA, BBAR (350-700nm), Molded Aspheric Lens

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Precision Molded Aspheric Lenses

Stock **#87-133** **20+ In Stock**

Other Coating Options

- 1 + **€85**.00

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| Qty 1-10 | **€85,00** each |
| Qty 11-49 | **€76,50** each |
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Product Downloads

## General

**Compatible Window:**

Thickness: 0.25 (t) (mm)
Material: BK7

**Lightpath Lens Code:**

355440

**Type:**

Aspheric Lens

**Typical Applications:**
Finite Conjugate for Magnification

**Note:**
NA, Object (mm): 0.26
WD, Image (mm): 7.09
WD, Object (mm): 2.71

## Physical & Mechanical Properties

**Diameter (mm):**
4.70 ±0.020

**Clear Aperture CA (mm):**
4.12

**Edge Thickness ET (mm):**
2.68

**Center Thickness CT (mm):**
3.83 ±0.05

**Bevel:**
Protective as needed

**Distance from Window to Lens (D) (mm):**
1.962

## Optical Properties

**Effective Focal Length EFL (mm):**
2.76 @ 980nm

**Numerical Aperture NA:**
0.50

**Substrate:**
D-ZLaF52LA

**Focal Length Tolerance (%):**
±1

**Aspheric Design Wavelength (nm):**
980

**Coating:**
BBAR (350-700nm)

**Coating Specification:**
$R_{avg}$ ≤0.5% @ 350 - 700nm

**Surface Quality:**
40-20

**f/#:**
0.96

**Abbe Number ($v_d$):**
40.79

**Index of Refraction ($n_d$):**
1.806

**Wavelength Range (nm):**
350 - 700

**Working Distance (mm):**
7.09

**Conjugate Distance:**
Finite

**Focal Length Specification Wavelength (nm):**
980.00

**Transmitted Wavefront Error (λ, RMS):**
< 0.20

## Material Properties

**Coefficient of Thermal Expansion CTE ($10^{-6}$/°C):**
6.9

## Environmental & Durability Factors

**Operating Temperature (°C):**
≤200

## Regulatory Compliance

**RoHS 2015:**
Compliant

**Certificate of Conformance:**
View

**Reach 247:**
Compliant

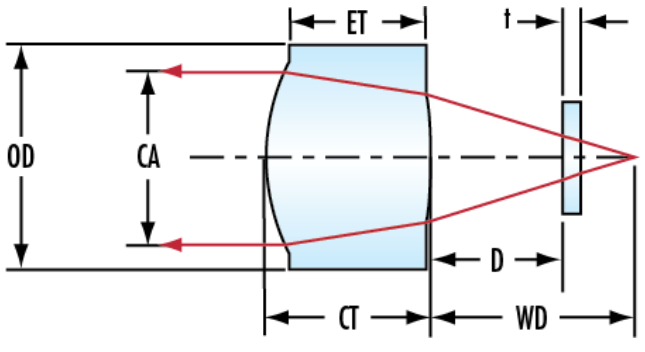
# Product Details

- Eliminate Spherical Aberration
- Multiple Coating Options Available
- Range of Numerical Apertures

LightPath® Geltech™ Molded Aspheric Lenses are used to eliminate spherical aberration and improve focusing and collimating accuracy in a variety of laser applications. Low NA aspheric lenses are designed to maintain beam shape, while high NA lenses gather all available light to maintain beam power over long distances. LightPath® Geltech™ Molded Aspheric Lenses are ideal for applications including sighting systems, bar code scanners, laser diode-to-fiber coupling, optical data storage, or biomedical lasers.



## Technical Information

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