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# LightPath 354171 | 4.7mm Dia., 0.30 NA, BBAR (350-700nm), Molded Aspheric Lens

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Stock #83-709 **20+ In Stock**

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1  £60.<sup>00</sup>

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Volume Pricing	
Qty 1-10	£60.00 each
Qty 11-49	£54.00 each
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**!** Prices shown are exclusive of VAT/local taxes

## Product Downloads

### General

354171 **Lightpath Lens Code:**

Aspheric Lens **Type:**

### Physical & Mechanical Properties

**Diameter (mm):**

4.70 ±0.015

Clear Aperture CA (mm):

3.70

Edge Thickness ET (mm):

2.88

Center Thickness CT (mm):

3.48 ±0.05

Bevel:

Protective as needed

### Optical Properties

Effective Focal Length EFL (mm):

6.20 @633nm

Numerical Aperture NA:

0.30

Substrate:

[D-ZK3](#)

Focal Length Tolerance (%):

±1

Aspheric Design Wavelength (nm):

633

Coating:

BBAR (350-700nm)

Coating Specification:

R<sub>avg</sub> ≤0.5% @ 350 - 700nm

Surface Quality:

80-50

f#:

1.67

Abbe Number (v<sub>d</sub>):

61.16

Index of Refraction (n<sub>d</sub>):

1.589

Wavelength Range (nm):

350 - 700

Working Distance (mm):

4.100

Conjugate Distance:

Infinite

Focal Length Specification Wavelength (nm):

633.00

Transmitted Wavefront Error (λ, RMS):

< 0.070

### Material Properties

Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):

7.6

### Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

Reach 247:

[Compliant](#)

## Product Details

- Compact, Molded Aspheric Lens Design
- Improved Performance Compared to Doublet and Triplet Lenses
- Ideal for Laser Tools and Measurement Systems

LightPath® Laser Tool Molded Aspheric Lenses are designed to fulfill the needs of a variety of tools and measurement systems utilizing laser diodes, including leveling lasers, projectors, scanners, trackers, and gun sights. By utilizing a single aspheric lens, the need for a multi-lens system is eliminated, allowing for a more compact and robust design. Each aspheric lens is offered with various anti-reflection coatings for optimum transmission in the visible and NIR wavelength ranges. LightPath® Laser Tool Molded Aspheric Lenses' anti-reflection coating options for each lens provides <1% average reflection over the entire design wavelength range. The lenses are offered in four different diameters: 3mm, 4.70mm, 6mm, and 6.33mm.

