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LightPath 354171 | 4.7mm Dia., 0.30 NA, BBAR (600-1050nm), Molded Aspheric Lens

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Stock #83-710 **20+ In Stock**

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⊖ 1 ⊕ €85.⁰⁰

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Volume Pricing	
Qty 1-10	€85,00 each
Qty 11-49	€76,50 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 (600-1050nm)

Coating Specification:

R_{abs} <1.0% @ 600 - 1050nm

Surface Quality:

80-50

f#:

1.67

Abbe Number (v_d):

61.16

Index of Refraction (n_d):

1.589

Wavelength Range (nm):

600 - 1050

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 (10⁻⁶/°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.

