

[See all 14 Products in Family](#)

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

See More by [Lightpath®](#)



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

[Other Coating Options](#)

- 1 + C\$105⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-10	C\$105.00 each
Qty 11-49	C\$94.50 each
Need More?	Request Quote

Product Downloads

General

354171 **Lightpath Lens Code:**

Aspheric Lens **Type:**

Physical & Mechanical Properties

4.70 ±0.015 **Diameter (mm):**

3.70	Clear Aperture CA (mm):
2.88	Edge Thickness ET (mm):
3.48 ±0.05	Center Thickness CT (mm):
Protective as needed	Bevel:

Optical Properties

6.20 @ 633nm	Effective Focal Length EFL (mm):
0.30	Numerical Aperture NA:
D-ZK3	Substrate: <input type="checkbox"/>
±1	Focal Length Tolerance (%):
633	Aspheric Design Wavelength (nm):
BBAR (350-700nm)	Coating:
$R_{avg} \leq 0.5\%$ @ 350 - 700nm	Coating Specification:
80-50	Surface Quality:
1.67	f#:
61.16	Abbe Number (v_d):
1.589	Index of Refraction (n_d):
350 - 700	Wavelength Range (nm):
4.100	Working Distance (mm):
Infinite	Conjugate Distance:
633.00	Focal Length Specification Wavelength (nm):
< 0.070	Transmitted Wavefront Error (λ, RMS):

Material Properties

7.6	Coefficient of Thermal Expansion CTE ($10^{-6}/^{\circ}\text{C}$):
-----	--

Regulatory Compliance

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

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.

