

## 45mm Dia. x 32mm FL, Aspheric Condenser Lens, NIR I



Stock #72-510 **3 In Stock**

[Other Coating Options](#)

- 1 + **\$116.<sup>00</sup>**

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Volume Pricing	
Qty 1-10	<b>\$116.90</b> each
Qty 11-49	<b>\$105.00</b> each
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### Product Downloads

### General

Condenser Lens **Type:**

### Physical & Mechanical Properties

45.00 +0.0/-0.2 **Diameter (mm):**

≤30 **Centering (arcmin):**

**Clear Aperture CA (mm):**

40.50

Edge Thickness ET (mm):

2.18

Center Thickness CT (mm):

18.50 ±0.30

Bevel:

Protective as needed

Diameter of Asphere (mm):

45.00

Shape of Back Surface:

Convex

### Optical Properties

Effective Focal Length EFL (mm):

32.00

Numerical Aperture NA:

0.70

Back Focal Length BFL (mm):

20.90

Substrate:

H-K51

Focal Length Tolerance (%):

±5

Coating:

NIR I (600-1050nm)

Coating Specification:

R<sub>avg</sub> ≤0.5% @ 600 - 1050nm

Surface Quality:

80-50 (typical)

f#:

0.71

Radius R<sub>2</sub> (mm):

130.00

Wavelength Range (nm):

600 - 1050

Conjugate Distance:

Infinite

### Regulatory Compliance

Certificate of Conformance:

[View](#)

## Product Details

- Molded Illumination Lenses
- Aspheric or Spherical Designs
- High Numerical Apertures

Condenser Lenses are molded lenses designed for illumination applications. Featuring large apertures and short focal lengths, Condenser Lenses are commonly used in emitter-detector applications, projection applications, or condensing illumination applications such as Koehler Illumination. The Aspheric Condenser Lenses are molded on the aspheric surface and ground and polished on the opposite face, offering superior performance. The Plano-Convex (PCX) Condenser Lenses are molded on both surfaces, offering excellent value.

## Technical Information



