

[See all 5 Products in Family](#)

25.4mm Dia x 125mm FL, Uncoated Meniscus Lens



Stock #72-431 **1 In Stock**

⊖ 1 ⊕ **\$39²⁰**

ADD TO CART

Volume Pricing	
Qty 1-9	\$39.20 each
Qty 10-24	\$35.35 each
Qty 25-49	\$31.50 each
Need More?	Request Quote

Product Downloads

General

Meniscus Lens **Type:**

Physical & Mechanical Properties

25.40 +0.00/-0.10 **Diameter (mm):**

3.30 ±0.10 **Center Thickness CT (mm):**

<3 Centering (arcmin):

22.86 Clear Aperture CA (mm):

1.97 Edge Thickness ET (mm):

Optical Properties

125.00 @ 587.6nm Effective Focal Length EFL (mm):

N-BK7 Substrate:

4.92 f#:

0.10 Numerical Aperture NA:

Uncoated Coating:

121.10 @ 587.6nm Back Focal Length BFL (mm):

587.6 Design Wavelength DWL (nm):

36.04 Radius R₁ (mm):

78.971 Radius R₂ (mm):

40-20 Surface Quality:

3 Rings Power (P-V) @ 632.8nm:

0.5 Rings Irregularity (P-V) @ 632.8nm:

Regulatory Compliance

View Certificate of Conformance:

Product Details

- Positive Meniscus Lens Designs
- Minimize Spherical Aberration and Reduce Spot Sizes
- 350 – 2,200nm Wavelength Range

Positive Meniscus Lenses are convex-concave lenses manufactured from N-BK7 optical glass and are designed to minimize spherical aberration and reduce spot sizes in focusing applications. When used to focus a collimated beam, the lenses should be oriented with the convex surface towards to light source to minimize spherical aberration. Combining a positive meniscus lens with another lens in a multi-element optical design will allow for a shortening of the focal length and an increase in the numerical aperture (NA) of a system without introducing significant spherical aberrations. Positive Meniscus Lenses are available with focal lengths ranging from 100 to 300mm in 25.4mm diameters sizes. allowing for easy integration into benchtop systems.