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25.4mm Dia x 125mm FL, Uncoated Meniscus Lens



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

- 1 + S\$39^{.20}

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Volume Pricing

Qty 1-9	S\$39.20 each
Qty 10-24	S\$35.35 each
Qty 25-49	S\$31.50 each
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General

Meniscus Lens **Type:**

Physical & Mechanical Properties

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

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

Centering (arcmin):

<3

Clear Aperture CA (mm):

22.86

Edge Thickness ET (mm):

1.97

Optical Properties

Effective Focal Length EFL (mm):

125.00 @ 587.6nm

Substrate:

[N-BK7](#)

f#:

4.92

Numerical Aperture NA:

0.10

Coating:

Uncoated

Back Focal Length BFL (mm):

121.10 @ 587.6nm

Design Wavelength DWL (nm):

587.6

Radius R₁ (mm):

36.04

Radius R₂ (mm):

78.971

Surface Quality:

40-20

Power (P-V) @ 632.8nm:

3 Rings

Irregularity (P-V) @ 632.8nm:

0.5 Rings

Regulatory Compliance

Certificate of Conformance:

[View](#)

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.