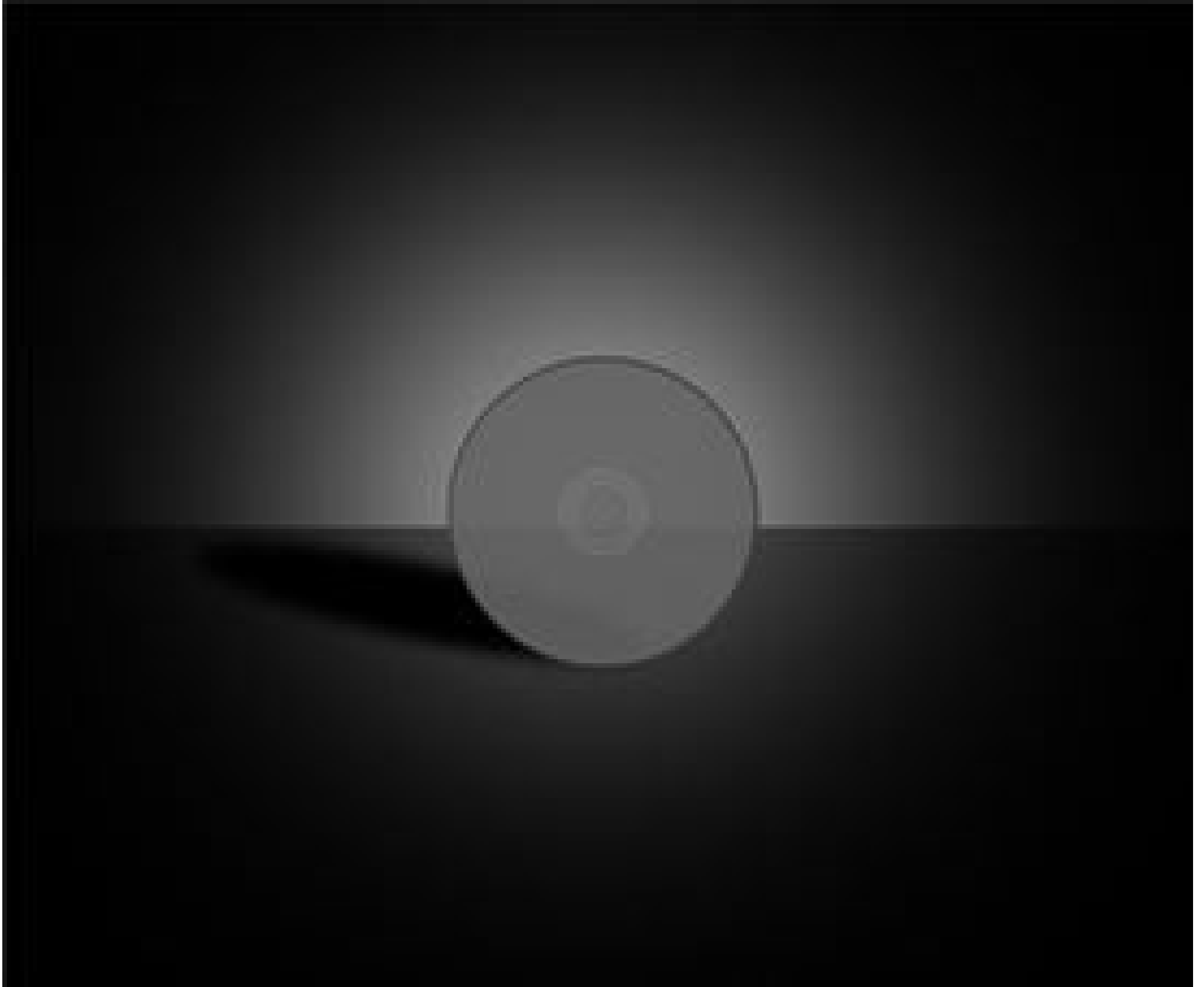


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808nm, 49.75–50.25mm Focal Length, Metalens



Stock #90-147 **NEW** 16 In Stock

1 C\$1,281⁰⁰

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Physical & Mechanical Properties

Thickness (mm):
0.45

Clear Aperture CA (mm):
10

Diameter (mm):
25.40

Optical Properties

0.5 **Focus Range (mm):**

Polycarbonate **Substrate:**

AR Coating (808nm) **Coating:**

808 **Design Wavelength DWL (nm):**

50.00 **Effective Focal Length EFL (mm):**

< 15 **Spot Size (μm):**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

Product Details

- Depth of Focus Range Options of 195 – 205mm and 49.75 – 50.25mm
- Flat Profile, Ultrathin 0.45mm Thickness
- 808, 1030, and 1064nm Options Available

Extended Depth of Focus (EDOF) Metalenses are engineered to leverage subwavelength nanostructures to achieve full wavefront control for 808, 1030, and 1064nm optical systems. Utilizing a 0.45mm thickness, these metalenses can replace bulky multi-element assemblies or axicons with a single planar element allowing for miniaturization of imaging and sensing systems. These metalenses feature either a 200mm focal length while maintaining a $<50\mu\text{m}$ spot size from 195 – 205mm or 50mm focal length while maintaining a $<15\mu\text{m}$ spot size from 49.75 – 50.25mm. Extended Depth of Focus (EDOF) Metalenses are ideal for laser cutting, laser marking, and beam shaping applications while also being compatible with ultrafast femtosecond lasers.

Note: Extended Depth of Focus (EDOF) Metalenses are very thin, and the nanostructure should never be touched or in contact with other surfaces. Use gloves or finger cots when handling the optic. To clean the parts, rinse with demineralized water and dry under ionized air flow.

Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools