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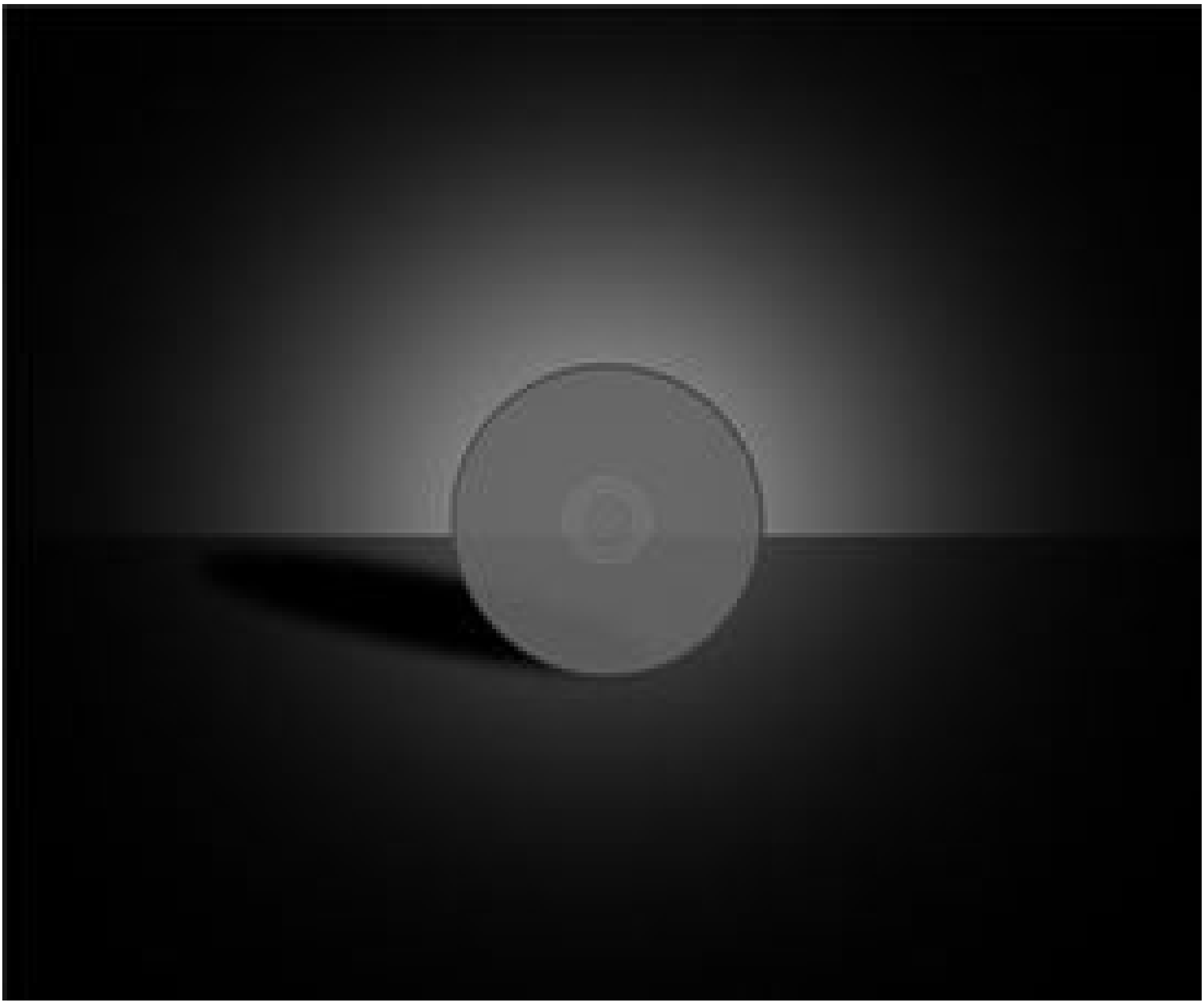
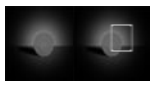
808nm, 49.75–50.25mm Focal Length, Metalens





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

- 1 + **MRP ₹91,881**

Price inclusive of all taxes

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Physical & Mechanical Properties

Thickness (mm):
0.45

Clear Aperture CA (mm):
10

Diameter (mm):

25.40

Optical Properties

Focus Range (mm):
0.5

Substrate:
Polycarbonate

Coating:
AR Coating (808nm)

Design Wavelength DWL (nm):
808

Effective Focal Length EFL (mm):
50.00

Spot Size (µm):
< 15

Regulatory Compliance

Certificate of Conformance:
View

Country of Origin:
United States

Imported By:
Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
Phone: +91- 80-6845 0000

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 <50µm spot size from 195 – 205mm or 50mm focal length while maintaining a <15µm 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

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