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**TECHSPEC® 4.25" Dia. x 45" FL Prot. Alum., Spherical Mirror**



Stock #50-051 [CONTACT US](#)

⊖ 1 ⊕ A\$1,024.<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-9	A\$1,024.00 each
Qty 10-25	A\$860.80 each
Qty 26-49	A\$809.60 each
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**General**

Spherical Mirror **Type:**

**Physical & Mechanical Properties**

107.95 +0.5/-0 **Diameter (mm):**

Ground **Back Surface:**

4.25	<b>Diameter (inches):</b>
+0.02/-0	<b>Diameter Tolerance (inches):</b>
0.75	<b>Edge Thickness ET (inches):</b>
19.05	<b>Edge Thickness ET (mm):</b>
+0.0/-10	<b>Edge Thickness Tolerance (%):</b>

## Optical Properties

Metal	<b>Coating Type:</b>
Protected Aluminum (400-2000nm)	<b>Coating:</b>
400 - 2000	<b>Wavelength Range (nm):</b>
1,143.00	<b>Effective Focal Length EFL (mm):</b>
<b>BOROFLOAT®</b>	<b>Substrate:</b> <input type="checkbox"/>
f/10.6	<b>Aperture (f/#):</b>
R <sub>avg</sub> >85% @ 400 - 700nm R <sub>avg</sub> >90% @ 400 - 2000nm	<b>Coating Specification:</b>
45.00	<b>Effective Focal Length EFL (inches):</b>
±2	<b>Focal Length Tolerance (%):</b>
λ/8	<b>Surface Accuracy:</b>
60-40	<b>Surface Quality:</b>
0.3 J/cm <sup>2</sup> @ 532nm & 1064nm, 10ns	<b>Damage Threshold, Reference:</b> <input type="checkbox"/>
2,286.00	<b>Radius of Curvature (mm):</b>

## Regulatory Compliance

<b>Compliant</b>	<b>RoHS 2015:</b>
<b>View</b>	<b>Certificate of Conformance:</b>
<b>Compliant</b>	<b>Reach 247:</b>

### Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Product Details

- Ideal for Multispectral Focusing Applications
- Variety of Coating Options Offered
- Multiple Sizes Available
- [λ/4 Spherical Mirrors](#) Also Available

TECHSPEC® λ/8 Precision Spherical Mirrors are designed for research and technical OEM applications in the UV, visible, or IR ranges. Each size is available uncoated or with one of our various reflective mirror coatings.

## Technical Information

