

TECHSPEC® 50.8mm Dia. x 50mm EFL, 1064nm 0-45°, Concave Laser Line Mirror



Laser Line Concave Mirrors

Stock **#11-342** **2 In Stock**

⊖ 1 ⊕ £209⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-4	£209.60 each
Qty 5-9	£188.00 each
Qty 10+	£170.40 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Concave Mirror **Type:**

Physical & Mechanical Properties

50.80 +0.00/-0.20 **Diameter (mm):**

Back Surface:

Fine Grind	
6.72	Center Thickness CT (mm):
90	Clear Aperture (%):
10.00 ±0.20	Edge Thickness ET (mm):
Optical Properties	
Dielectric	Coating Type:
Laser Mirror (1064nm)	Coating:
0.15λ	Surface Flatness (P-V):
1046 - 1074	Wavelength Range (nm):
1064	Design Wavelength DWL (nm):
50.00	Effective Focal Length EFL (mm):
Fused Silica (Corning 7980)	Substrate: <input type="checkbox"/>
0-45	Angle of Incidence (°):
R _{abs} >99.80% @ 1064nm (0-45° AOI)	Coating Specification:
100.00	Radius R ₁ (mm):
20-10	Surface Quality:
1 MW/cm ² @ 1064nm	Damage Threshold, Reference: <input type="checkbox"/>
3λ/20	Irregularity (P-V) @ 632.8nm:
100.00	Radius of Curvature (mm):

Regulatory Compliance	
View	Certificate of Conformance:

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 Focusing Laser Light
- >99.8% Reflectivity at Center Wavelength
- High Thermal Stability Fused Silica Substrates

TECHSPEC® Concave Laser Line Mirrors offer high precision 20-10 surface quality, λ/10 surface irregularity, and high reflectivity for focusing laser beams generated by Nd:YAG sources. Featuring high guaranteed laser induced damage thresholds, these dielectric coated laser mirrors are durable and resistant to laser damage. These concave mirrors are ideal for use with a 0-45° angle of incidence, providing flexibility for system integration into beam focusing, collecting, and imaging applications. TECHSPEC Concave Laser Line Mirrors feature fused silica substrates with excellent thermal and temporal stability, ensuring optimal performance regardless of temperature fluctuations. 266nm, 355nm, 532nm, and 1064nm laser line dielectric coatings are available.

Technical Information

266nm and 355nm



532nm and 1064nm

