

25.4mm Square x 50 FL, 261.4nm AR Coated, Laser Grade PCX Cylinder Lens



Stock #19-743 CLEARANCE **1 In Stock**

C\$215^{.93}

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Volume Pricing

Qty 1+	C\$215.93 each
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General

Cylinder Lens, Plano-Convex **Type:**

Physical & Mechanical Properties

Protective as needed **Bevel:**

5.00 **Center Thickness CT (mm):**

±0.1 **Center Thickness Tolerance (mm):**

Clear Aperture CA (mm):

22.86 x 22.86

Dimensional Tolerance (mm):
+0.0/-0.025

Dimensions (mm):
25.4 x 25.4

Edge Thickness ET (mm):
1.16

Axial Twist (arcmin):
<3

Optical Properties

Effective Focal Length EFL (mm):
50.00

Substrate:
Fused Silica (Corning 7980)

f#:
2

Numerical Aperture NA:
0.17

Coating:
Laser V-Coat (261.4nm)

Back Focal Length BFL (mm):
46.58

Coating Specification:
 $R_{\text{abs}} < 0.25\% @ 261.4\text{nm}$

Design Wavelength DWL (nm):
261.4

Focal Length Specification Wavelength (nm):
587.6

Radius R_1 (mm):
22.93

Surface Quality:
20-10

Damage Threshold, By Design:
 $3 \text{ J/cm}^2 @ 266\text{nm}, 20\text{ns}, 20\text{Hz}$

Power (P-V) @ 632.8nm:
 1.5λ

Irregularity (P-V) @ 632.8nm:
 $\lambda/4$

Plano Axis Wedge (arcmin):
<3

Power Axis Wedge (arcmin):
<4.5

Regulatory Compliance

Certificate of Conformance:
[View](#)

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

- Lenses, Mirrors, and Windows Designed for 261.4nm
- High Damage Thresholds to Withstand High Energy UV Photons
- Ideal for Use with the [UVC Photonics Model 261 Laser](#)

Optics for 261.4nm Lasers are manufactured with tight surface tolerances and high laser damage thresholds to meet the demanding needs of UV laser systems. With lenses, mirrors, and windows designed for 261.4nm available, these optics provide a solution for beam focusing, beam steering, and protecting sensitive components. Optics designed for 266nm that work well at 261nm, including filters, beam expanders, and beam shaping optics, are also available along with UV detection and measurement products. Optics for 261.4nm Lasers are ideal for use with UV lasers, such as the [UVC Photonics Model 261 Laser](#), in applications including UV disinfection systems, biomedical fluorescence, and UV Raman spectroscopy. Please contact us if your application requires a 261.4nm optical component with a custom size, geometry, or coating.