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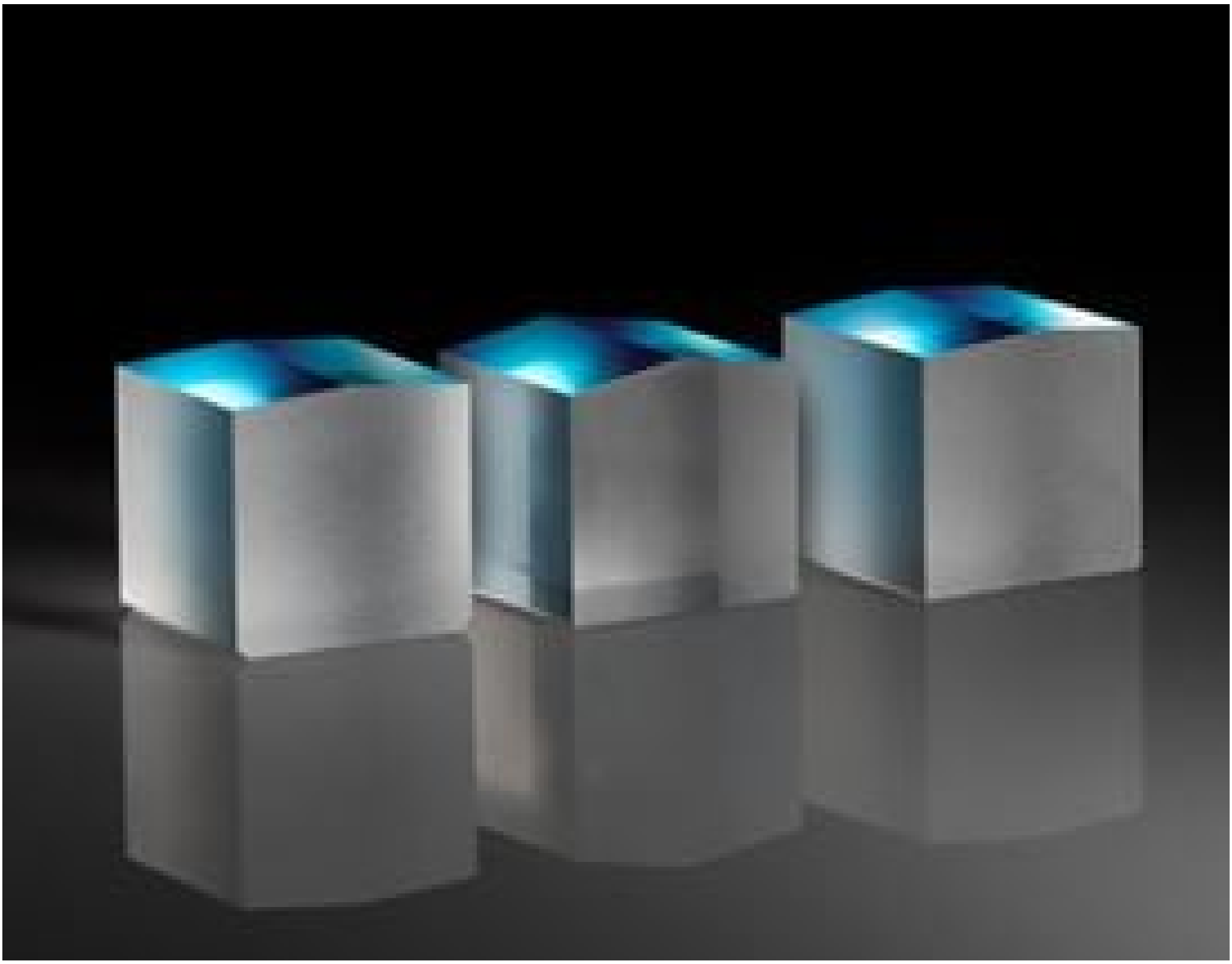
15° Fan Angle, 500 - 850nm AR Coated, High Precision Powell Lens



Stock **#70-139** **1 In Stock**

- 1 + **€325**.00

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Volume Pricing	
Qty 1-10	**€325,00** each
Qty 11-49	**€292,00** each
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Product Downloads

General

Type:

Beam Shaping Lens

Physical & Mechanical Properties

Dimensions (mm):

8.90 +0.00/-0.15

Height (mm):

8.90 +0.00/-2.00

Input Beam Diameter, $1/e^2$ (mm):

1.3

Optical Properties

Substrate:

N-BK7

Coating:

BBAR (500-850nm)

Wavelength Range (nm):

500 - 850

Coating Specification:

R_{abs} <1.0% @ 500 - 700nm
R_{abs} <1.5% @ 700 - 850nm

Index of Refraction (n_d):

1.458

Fan Angle (°):

15.00

Regulatory Compliance

Certificate of Conformance:

View

Product Details

- Generate Uniform, Flat-Top Profile Over Entire Line
- Fan Angles from 1° to 75° Available
- AR Coated for 400 - 500nm or 500 - 850nm

Precision Powell Lenses, also known as aspheric line generators (ALGs), spread an input beam across a uniform line with a top-hat beam profile at a specified fan angle. These Powell lenses are produced through a precision manufacturing process to ensure high contained power, uniformity, and line straightness across the entire produced line, as well as superior part-to-part consistency. They are designed for a specific input beam diameter to provide best line uniformity; larger input beams will result in higher intensity at the ends of the generated line, while smaller will create a more Gaussian distribution. Precision Powell Lenses are ideal for use in machine vision and life science applications including 3D profile measurement, PCB inspection, line-scan SD-OCT, line-scan confocal microscopy, flow cytometry, and particle analysis.

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