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10° Fan Angle, 400 - 500nm AR Coated, High Precision Powell Lens



Stock #70-129 [CONTACT US](#)

- 1 + MRP ₹32,790

i Price inclusive of all taxes

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Volume Pricing	
Qty 1-10	₹32,790 each
Qty 11-49	₹29,460 each
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General

Beam Shaping Lens **Type:**

Physical & Mechanical Properties

8.90 +0.00/-0.15 **Dimensions (mm):**

8.90 +0.00/-2.00 **Height (mm):**

Input Beam Diameter, 1/e² (mm):

Optical Properties

N-BK7	Substrate: <input type="checkbox"/>
BBAR (400-500nm)	Coating:
400 - 500	Wavelength Range (nm):
$R_{\text{abs}} < 1.0\% @ 400 - 500\text{nm}$	Coating Specification:
1.458	Index of Refraction (n_d):
10.00	Fan Angle ($^\circ$):

Regulatory Compliance

View	Certificate of Conformance:
United States	Country of Origin:
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	Imported By:

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.