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## 45° Fan Angle, 400 - 500nm AR Coated, High Precision Powell Lens



Stock #70-133 **1 In Stock**

MRP ₹32,790

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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### Product Downloads

### 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/e<sup>2</sup> (mm):**

## Optical Properties

<b>N-SF6</b>	<b>Substrate:</b> □
BBAR (400-500nm)	<b>Coating:</b>
400 - 500	<b>Wavelength Range (nm):</b>
$R_{\text{abs}} < 1.0\% @ 400 - 500\text{nm}$	<b>Coating Specification:</b>
1.458	<b>Index of Refraction (<math>n_d</math>):</b>
45.00	<b>Fan Angle (°):</b>

## Regulatory Compliance

<b>View</b>	<b>Certificate of Conformance:</b>
United States	<b>Country of Origin:</b>
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	<b>Imported By:</b>

## 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.