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5° Fan Angle, 500 - 850nm AR Coated, High Precision Powell Lens



Stock **#70-137** [CONTACT US](#)

- 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

Beam Shaping Lens **Type:**

Physical & Mechanical Properties

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

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

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

Optical Properties

Substrate:
Coating:
BBAR (500-850nm)

Wavelength Range (nm):
500 - 850

Coating Specification:
 $R_{\text{abs}} < 1.0\%$ @ 500 - 700nm
 $R_{\text{abs}} < 1.5\%$ @ 700 - 850nm

Index of Refraction (n_d):
1.458

Fan Angle (°):
5.00

Regulatory Compliance

Certificate of Conformance:
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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.