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## 20° Fan Angle, 500 - 850nm AR Coated, High Precision Powell Lens



Stock #70-140 **1 In Stock**

- 1 + €325<sup>.00</sup>

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### Volume Pricing

Qty 1-10	€325,00 each
Qty 11-49	€292,00 each
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**i** Prices shown are exclusive of VAT/local taxes

### 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

**N-BK7** Substrate:

BBAR (500-850nm) Coating:

500 - 850 Wavelength Range (nm):

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

1.458 Index of Refraction ( $n_d$ ):

20.00 Fan Angle ( $^\circ$ ):

## Regulatory Compliance

[View](#) Certificate of Conformance:

## Product Details

- Generate Uniform, Flat-Top Profile Over Entire Line
- Fan Angles from  $1^\circ$  to  $75^\circ$  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.