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125° Diffusing Angle, 5mm Sq., Wide Angle Diffuser



Wide Angle Diffusers

Stock **#23-877** **4 In Stock**

⊖ 1 ⊕ **S\$536⁰⁰**

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Volume Pricing	
Qty 1-10	S\$536.20 each
Qty 11-25	S\$481.60 each
Qty 26-49	S\$455.00 each
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General

Flat Top Diffuser

Type:

Note:
Recommended $M^2 > 10$ and beam size $> 2.5\text{mm}$
 FWe^2 for best homogeneity and steep slopes

Physical & Mechanical Properties

Clear Aperture CA (mm):

4.5 x 4.5

Dimensions (mm):

5.00 x 5.00 ±0.1

Thickness (mm):

0.50 ±0.05

Optical Properties

Diffusing Angle (°):

125

Coating:

Uncoated

Substrate:

S-TIH53

Transmission (%):

90

Design Wavelength DWL (nm):

1064

Regulatory Compliance

Certificate of Conformance:

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Product Details

- 25 and 125° Diffusing Angles Available
- 90% Transmission Efficiency
- Eye-Safe ROE, No Zero-Order and No Hot Spot

Wide Angle Diffusers are used to create diffused top hat beam profiles in one dimension and are available in angles of 25 or 125°. These diffusers can be easily paired for diffusion in two dimensions for square or rectangular output profiles with a steep edge slope and high homogeneity. These diffusers have increased transmission efficiency and uniformity versus standard ground glass diffusers. Wide Angle Diffusers are an eye-safe refractive optical element (ROE) with no zero-order and no hot spots. These diffusers are ideal for integration into LIDAR, heads up displays (HUDs), time of flight, 3D sensing, and machine vision applications.

Note: These are designed for use with collimated light with a minimum beam size of 2.5mm FWHM. Use with diverging beams or beam arrays will change output profiles.