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



Wide Angle Diffusers

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

⊖ 1 ⊕ £306<sup>40</sup>

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### Volume Pricing

|            |                               |
|------------|-------------------------------|
| Qty 1-10   | £306.40 each                  |
| Qty 11-25  | £275.20 each                  |
| Qty 26-49  | £260.00 each                  |
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**!** Prices shown are exclusive of VAT/local taxes

### Product Downloads

### General

Flat Top Diffuser

**Type:**

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

### Physical & Mechanical Properties

4.5 x 4.5 **Clear Aperture CA (mm):**

5.00 x 5.00 ± 0.1 **Dimensions (mm):**

0.50 ± 0.05 **Thickness (mm):**

## Optical Properties

125 **Diffusing Angle (°):**

Uncoated **Coating:**

**S-TIH53** **Substrate:**

90 **Transmission (%):**

1064 **Design Wavelength DWL (nm):**

## Regulatory Compliance

[View](#) **Certificate of Conformance:**

## 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.