

## 25.4mm Wire Grid Polarizing Cube



Stock **#89-604** **20+ In Stock**

- 1 + £424.<sup>00</sup>

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### Volume Pricing

Qty 1-5	£424.00 each
Qty 6-24	£343.20 each
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**i** Prices shown are exclusive of VAT/local taxes

### Product Downloads

### General

Linear Polarizer **Type:**

### Physical & Mechanical Properties

>90 **Clear Aperture (%):**

Wire Grid **Construction:**

25.4 x 25.4 x 25.4 ±0.3  
**Dimensions (mm):**

## Optical Properties

**Beam Deviation (arcmin):**  
 <5

**Coating Specification:**  
 $R_{avg} < 0.5\%$  @ 400 - 700nm

**Efficiency ( $T_p \cdot R_s$ ):**  
 >62% @ 450nm  
 >65% @ 550nm & 650nm

**Extinction Ratio:**  
 1000:1 @ 450nm  
 2000:1 @ 550nm  
 3000:1 @ 650nm

**Substrate:**   
 N-BK7

**Surface Quality:**  
 40-20

**Transmission (%):**  
 $T_p > 72\%$  @ 450nm  
 $T_p > 75\%$  @ 550nm  
 $T_p > 78\%$  @ 650nm

**Transmitted Wavefront Distortion (RMS):**  
 $< 0.33\lambda$  @ 633nm

**Wavelength Range (nm):**  
 400 - 700

## Regulatory Compliance

**RoHS 2015:**  
 Compliant

**Certificate of Conformance:**  
 View

**REACH 241:**  
 Compliant

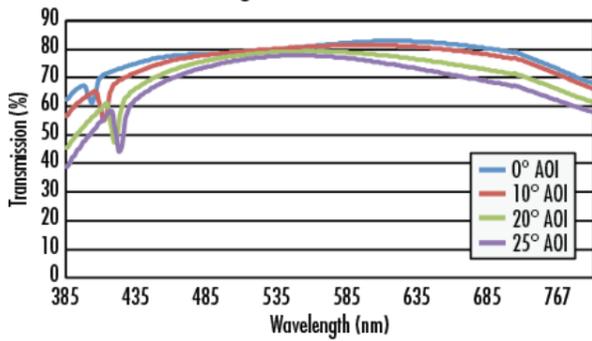
## Product Details

- High Contrast Over Large Angles of Incidence
- Low Color Shift at Large Angles
- Ideal for Uncollimated Light Sources

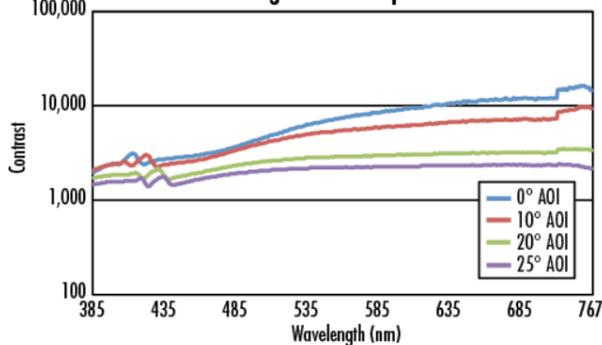
Wire Grid Polarizing Cube Beamsplitters are designed for applications using uncollimated light, such as with a broadband white light source. Wire Grid Polarizing Cube Beamsplitters consist of a wire grid polarizer cemented between two precision high tolerance right angle prisms. An anti-reflection coating has been applied to each face of the beamsplitter to provide less than 0.5% average reflection per surface. Additionally, these beamsplitters maintain their contrast spectrally from 400 – 700nm and over a large cone angle of  $\pm 25^\circ$ .

## Technical Information

**Wire Grid Polarizing Cube Transmission of P-Polarization**



**Wire Grid Polarizing Cube Beamsplitter Contrast Ratio**



Wavelength	Incident Cone of Light				
	±5°	±10°	±15°	±20°	±25°

400 - 500nm	2,100:1	2,000:1	1,600:1	1,400:1	1,100:1
500 - 600nm	4,000:1	3,900:1	2,900:1	2,600:1	1,900:1
600 - 700nm	6,000:1	5,500:1	4,200:1	3,800:1	2,500:1

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