

25.4mm Wire Grid Polarizing Cube



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

S\$742^{.00}

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Qty 1-5	S\$742.00 each
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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:

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REACH 241:

Compliant

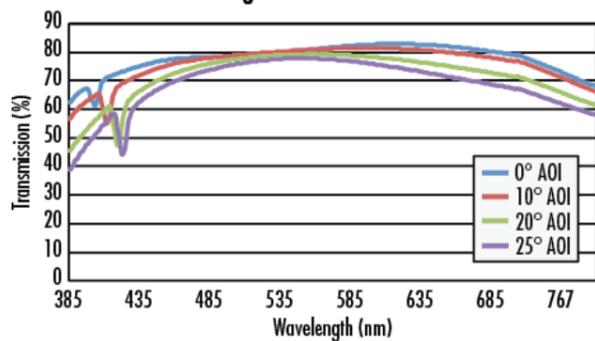
Product Details

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

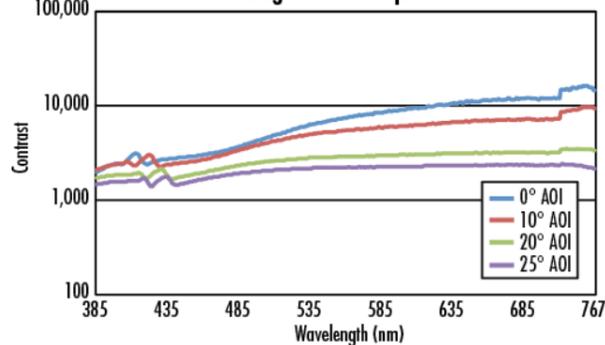
Wire Grid Polarizing Cube Beamsplitters are designed for applications using uncollimated light, such as with a broadband white light source. Wire Grid Polarizing Cube Beamsplitters consist of a wire grid polarizer cemented between two precision high tolerance right angle prisms. An anti-reflection coating 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				
	$\pm 5^\circ$	$\pm 10^\circ$	$\pm 15^\circ$	$\pm 20^\circ$	$\pm 25^\circ$
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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