25.4mm Wire Grid Polarizing Cube

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

⊖   1   ⊕   **€530**.⁰⁰

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Volume Pricing	
Qty 1-5	**€530,00** each
Qty 6-24	**€429,00** each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:

Linear Polarizer

Physical & Mechanical Properties

Clear Aperture (%):

>90

Construction:

Wire Grid

Dimensions (mm):

25.4 x 25.4 x 25.4 ±0.3

Optical Properties

Beam Deviation (arcmin):

<5

Coating Specification:

R_{avg} <0.5% @ 400 - 700nm

Efficiency (T_p*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):

<0.33λ @ 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 ±25°.

Technical Information

Wire Grid Polarizing Cube Transmission of P-Polarization
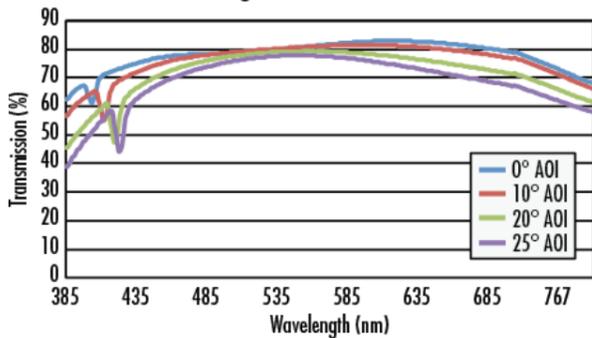
Wire Grid Polarizing Cube Beamsplitter Contrast Ratio
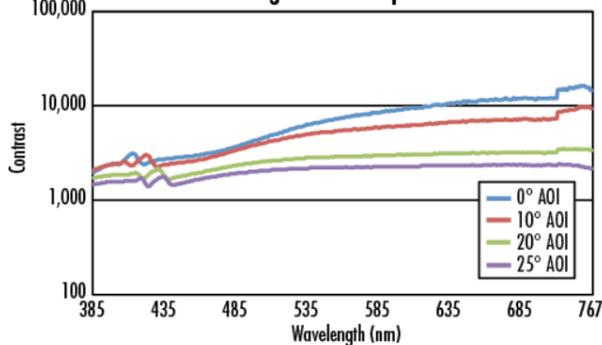
Wavelength	Incident Cone of Light				
	±5°	±10°	±15°	±20°	±25°

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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