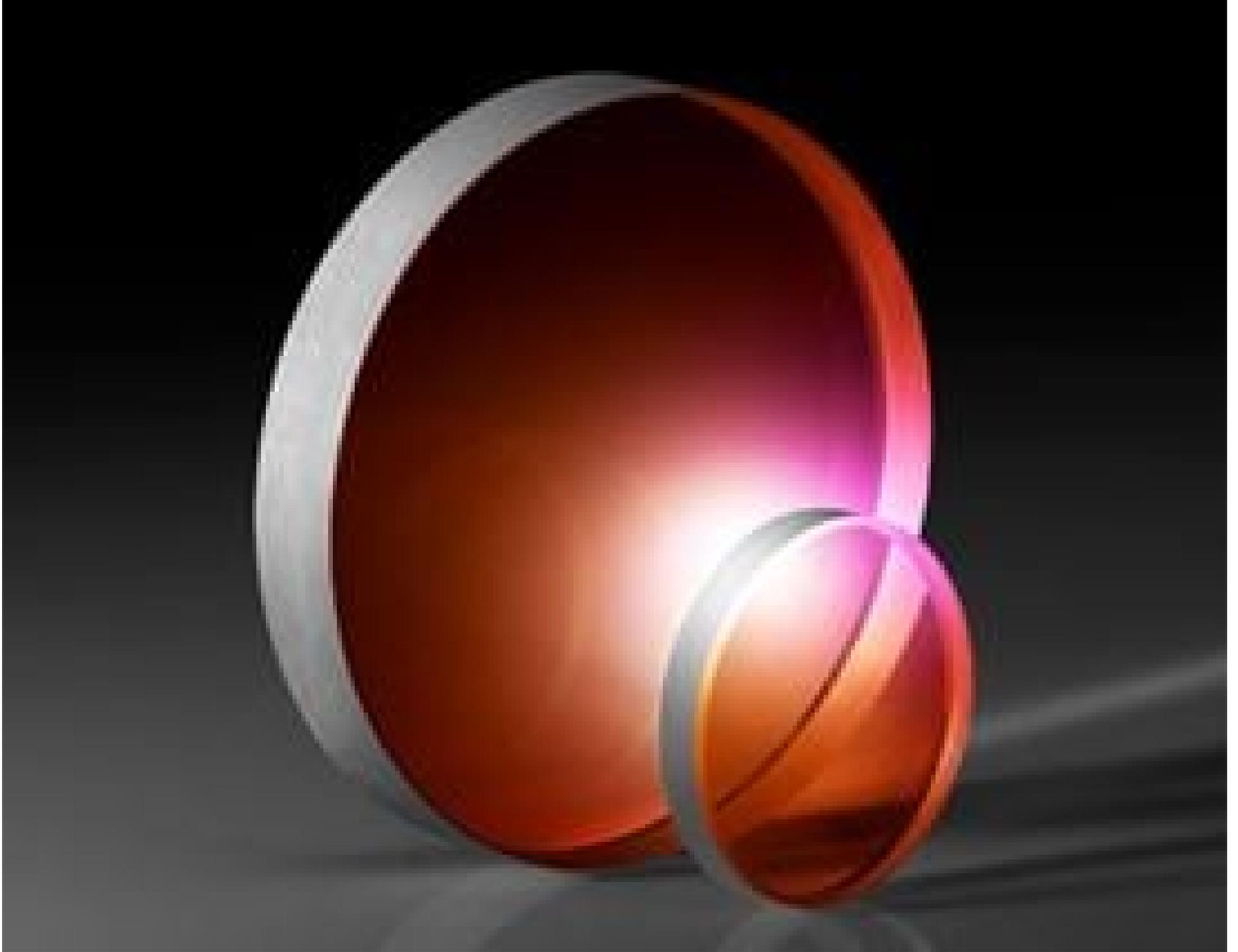


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## 25.4mm Dia., 4mm Thick, 3° BBAR (2000-5000nm) Coated, ISP Optics Calcium Fluoride (CaF<sub>2</sub>) Wedged Window

See More by [ISP Optics](#)



Calcium Fluoride (CaF<sub>2</sub>) Wedged Windows

Stock **#23-850** **7 In Stock**

⊖ 1 ⊕ C\$452<sup>20</sup>

**ADD TO CART**

### Volume Pricing

Qty 1+	C\$452.20 each
Need More?	<a href="#">Request Quote</a>

### Product Downloads

### General

Protective Window **Type:**

### Physical & Mechanical Properties

21.59 **Clear Aperture CA (mm):**

25.40 +0.0/-0.13 **Diameter (mm):**

3.00 ±0.13	<b>Thickness (mm):</b>
Protective as needed	<b>Bevel:</b>
85	<b>Clear Aperture (%):</b>
Fine Ground	<b>Edges:</b>
0.26	<b>Poisson's Ratio:</b>
75.8	<b>Young's Modulus (GPa):</b>
158.30	<b>Knoop Hardness (kg/mm<sup>2</sup>):</b>

## Optical Properties

BBAR (2000-5000nm)	<b>Coating:</b>
<a href="#">Calcium Fluoride (CaF<sub>2</sub>)</a>	<b>Substrate:</b> <input type="checkbox"/>
1.495	<b>Index of Refraction (n<sub>d</sub>):</b>
60-40	<b>Surface Quality:</b>
94.99	<b>Abbe Number (v<sub>d</sub>):</b>
Random	<b>Axis Orientation:</b>
R <sub>avg</sub> <1.5% @ 2000-5000nm R <sub>abs</sub> <3.0% @ 2000-5000nm R <sub>avg</sub> <1.75% @ 2000-4000nm	<b>Coating Specification:</b>
2000 - 5000	<b>Wavelength Range (nm):</b>
2λ @ 633nm	<b>Surface Flatness (P-V):</b>
3° ±0.25	<b>Wedge Angle (°):</b>

## Material Properties

3.18	<b>Density (g/cm<sup>3</sup>):</b>
18.85	<b>Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):</b>

## Regulatory Compliance

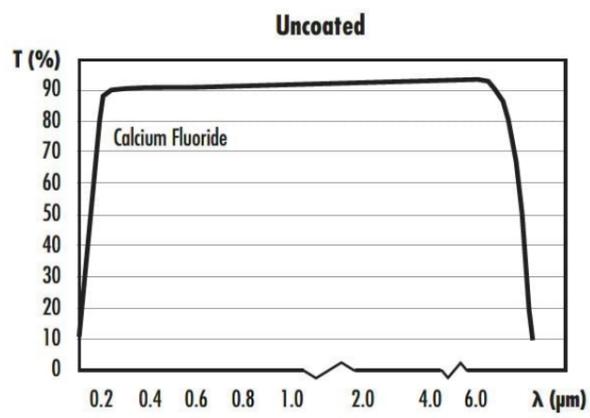
<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 235:</b>

## Product Details

- 30 Arcmin Wedge
- Low Absorption, High Transmission
- Ideal for Harsh Environments
- [Precision Flat Calcium Fluoride Windows](#) Also Available

ISP Optics Calcium Fluoride (CaF<sub>2</sub>) Wedged Windows feature a 30 arcmin wedge to eliminate fringe patterns from etalon effects and to prevent cavity feedback. Calcium fluoride's combination of low absorption and high damage threshold make these windows a popular choice for free-space lasers. Its low refractive index allows it to be used without an anti-reflective coating. ISP Optics Calcium Fluoride (CaF<sub>2</sub>) Wedged Windows feature low water solubility and offer superior hardness compared to other fluoride-based substrates, making them suitable for laser applications in harsh environments. Calcium Fluoride (CaF<sub>2</sub>) Wedged Windows provide laser output protection from environmental effects and are ideal for beam sampling applications.

## Technical Information



## Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools

## Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).