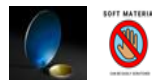
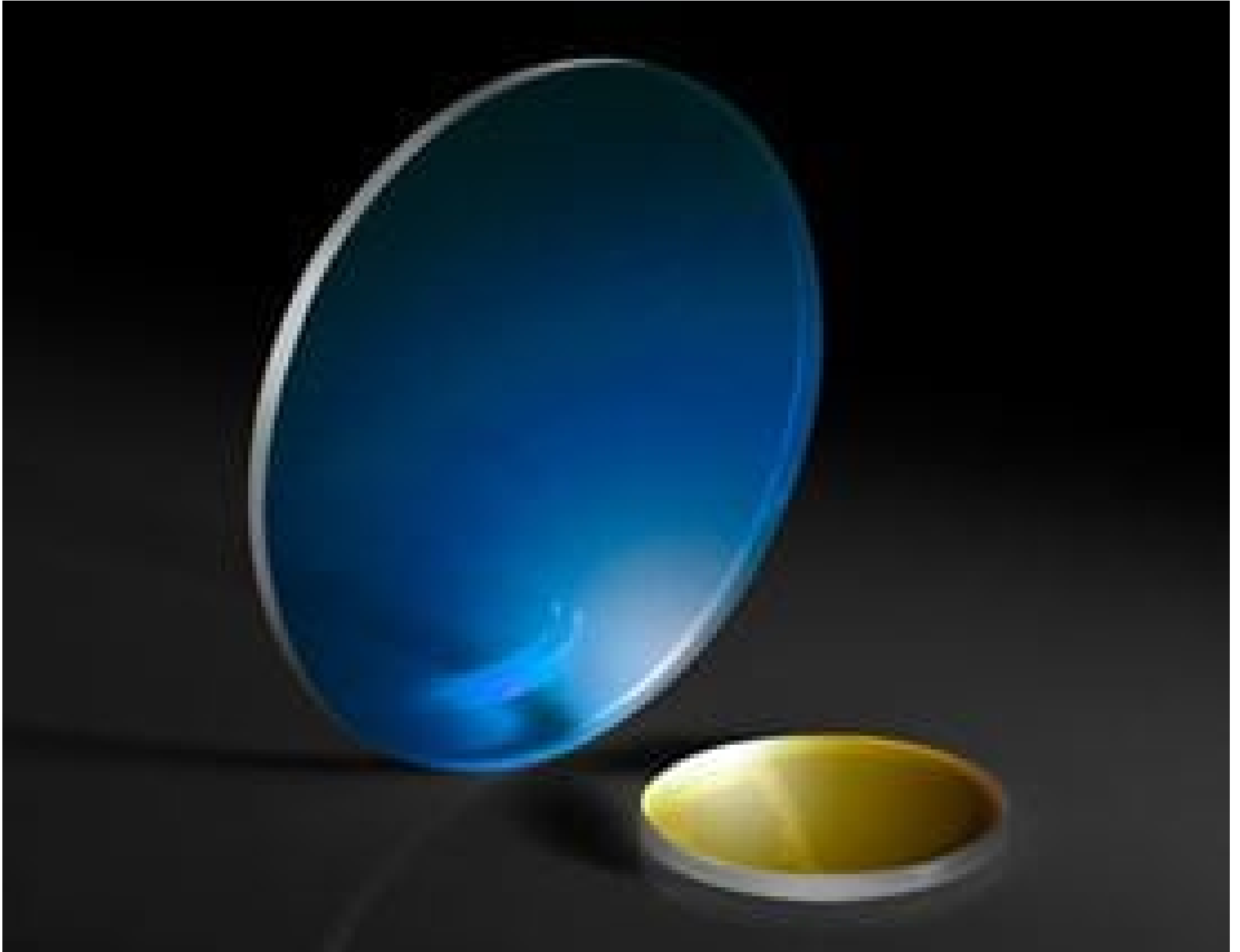


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# 38.1mm Dia., 4mm Thick, Uncoated, ISP Optics Lithium Fluoride (LiF) Window | LF-W-38-4

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Stock #24-478 CLEARANCE 1 In Stock

⊖ 1 ⊕ €236<sup>95</sup>

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ⓘ Prices shown are exclusive of VAT/local taxes

## Product Downloads

General	
LF-W-38-4	<b>Model Number:</b>
Protective Window	<b>Type:</b>
Crystal	<b>Type of Window:</b>

## Physical & Mechanical Properties

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

38.10 +0.00/-0.13 **Diameter (mm):**

4.00 ±0.13 **Thickness (mm):**

<3 **Parallelism (arcmin):**

Protective as needed **Bevel:**

90 **Clear Aperture (%):**

Fine Ground **Edges:**

0.33 **Poisson's Ratio:**

64.97 **Young's Modulus (GPa):**

102.00 **Knoop Hardness (kg/mm<sup>2</sup>):**

## Optical Properties

Uncoated **Coating:**

Lithium Fluoride (LiF) **Substrate:**

1.392 **Index of Refraction (n<sub>d</sub>):**

60-40 **Surface Quality:**

97.29 **Abbe Number (v<sub>d</sub>):**

Random **Axis Orientation:**

150 - 6000 **Wavelength Range (nm):**

2λ @ 632.8nm **Surface Flatness (P-V):**

## Material Properties

2.64 **Density (g/cm<sup>3</sup>):**

37 **Coefficient of Thermal Expansion CTE (10<sup>-6</sup>/°C):**

## Regulatory Compliance

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

## Product Details

- Excellent Vacuum UV (VUV) Transmission
- High Transmission from 150nm - 6µm
- Low Index of Refraction

ISP Optics Lithium Fluoride (LiF) Windows provide excellent transmission in the vacuum ultraviolet (VUV) wavelength range of 150 – 200nm, as well as at the hydrogen Lyman-alpha line (121nm). In addition to high transmission into the UV, these windows also feature superior transmission in the Visible and Infrared up to 6µm. Lithium fluoride has a low index of refraction, allowing these windows to be used without an anti-reflection (AR) coating. ISP Optics Lithium Fluoride (LiF) Windows are ideal for use as UV transmission windows in spectroscopy applications, as a diffracting element in X-ray spectrometry, or as infrared windows for thermal imaging applications.

**Note:** Lithium fluoride is sensitive to thermal shock and is attacked by atmospheric moisture at temperatures above 400°C.

## 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.



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