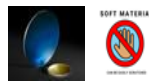
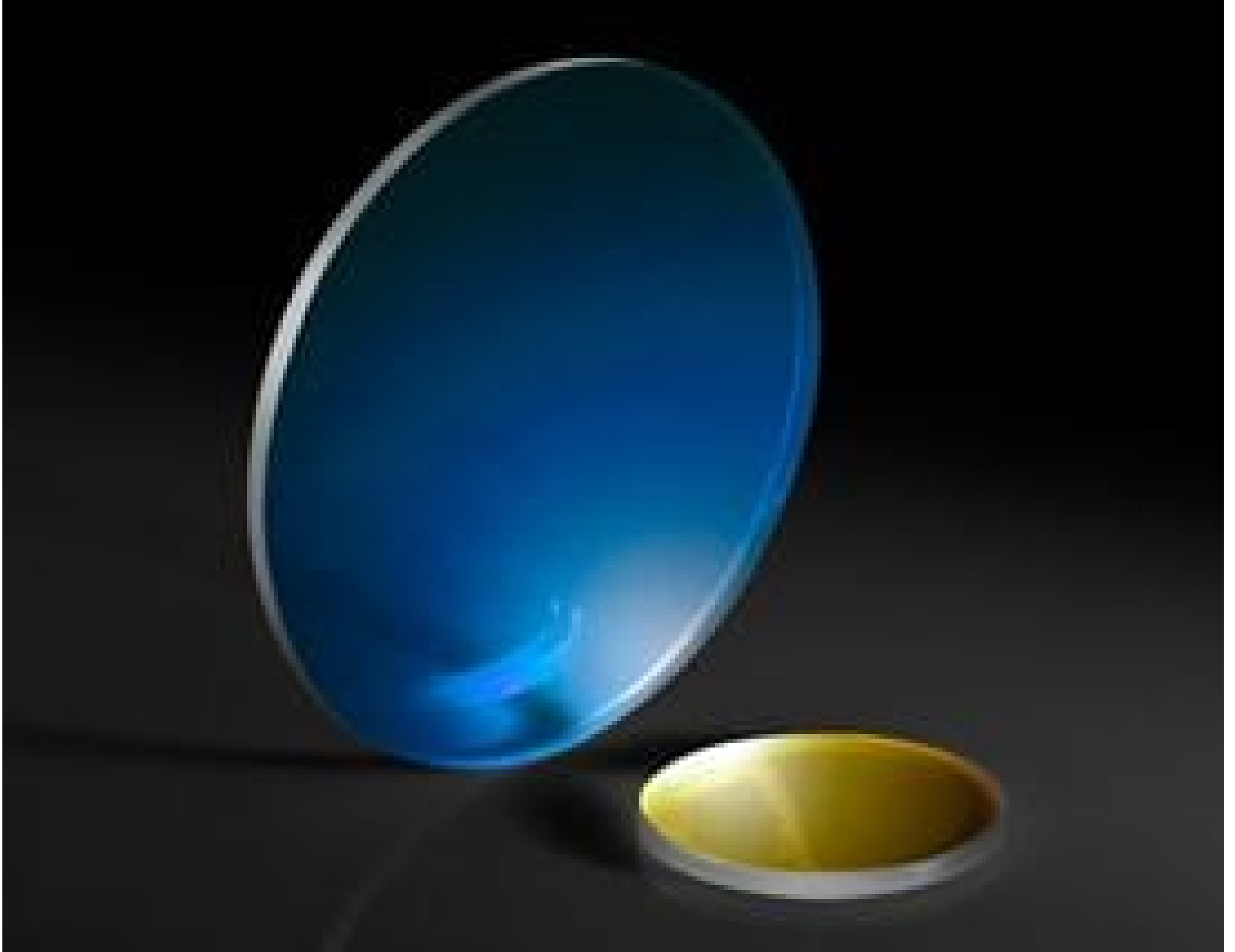


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# 38.1mm Dia., 4mm Thick, Uncoated, ISP Optics Lithium Fluoride (LiF) Window | LF-W-38-4

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Stock ~~#24-478~~ **CLEARANCE** 1 In Stock

- 1 + €259<sup>00</sup>

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**!** Prices shown are exclusive of VAT/local taxes

## Product Downloads

### General

LF-W-38-4 **Model Number:**

Protective Window **Type:**

Crystal **Type of Window:**

## 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.



Component Handling Tools

