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

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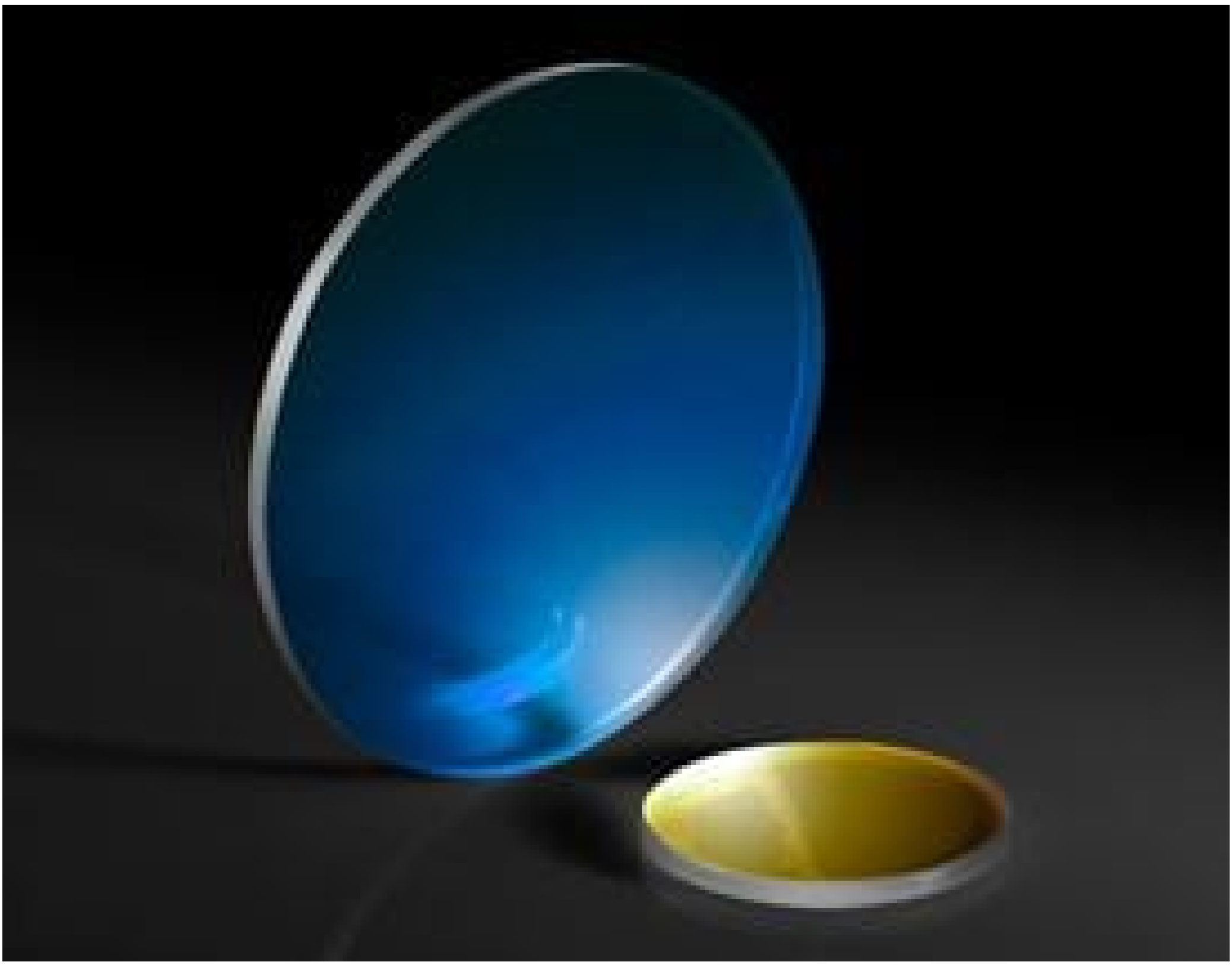

Stock **#24-478** CLEARANCE **1 In Stock**

- 1 + S$362.60

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Qty 1+	**S$362.60** each
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Product Downloads

General

Model Number:	LF-W-38-4
Type:	Protective Window
Type of Window:	Crystal

Physical & Mechanical Properties

Clear Aperture CA (mm):
32.38

Diameter (mm):
38.10 +0.00/-0.13

Thickness (mm):
4.00 ±0.13

Parallelism (arcmin):
<3

Bevel:
Protective as needed

Clear Aperture (%):
90

Edges:
Fine Ground

Poisson's Ratio:
0.33

Young's Modulus (GPa):
64.97

Knoop Hardness (kg/mm^2):
102.00

Optical Properties

Coating:
Uncoated

Substrate:
Lithium Fluoride (LiF)

Index of Refraction (n_d):
1.392

Surface Quality:
60-40

Abbe Number (v_d):
97.29

Axis Orientation:
Random

Wavelength Range (nm):
150 - 6000

Surface Flatness (P-V):
2λ@632.8nm

Material Properties

Density (g/cm^3):
2.64

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
37

Regulatory Compliance

Certificate of Conformance:
View

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

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