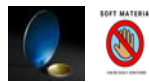


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38.1mm Dia., 3mm Thick, Uncoated, ISP Optics Lithium Fluoride (LiF) Window | LF-W-38-3

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Stock ~~#24-477~~ **CLEARANCE** 1 In Stock

⊖ 1 ⊕ A\$414⁰⁰

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Product Downloads

General

LF-W-38-3 **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):
3.00 ±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 ²):

Optical Properties

Uncoated	Coating:
Lithium Fluoride (LiF)	Substrate: <input type="checkbox"/>
1.392	Index of Refraction (n _d):
60-40	Surface Quality:
97.29	Abbe Number (v _d):
Random	Axis Orientation:
150 - 6000	Wavelength Range (nm):
2λ @ 632.8nm	Surface Flatness (P-V):

Material Properties

2.64	Density (g/cm ³):
37	Coefficient of Thermal Expansion CTE (10 ⁻⁶ /°C):

Regulatory Compliance

View	Certificate of Conformance:
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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

