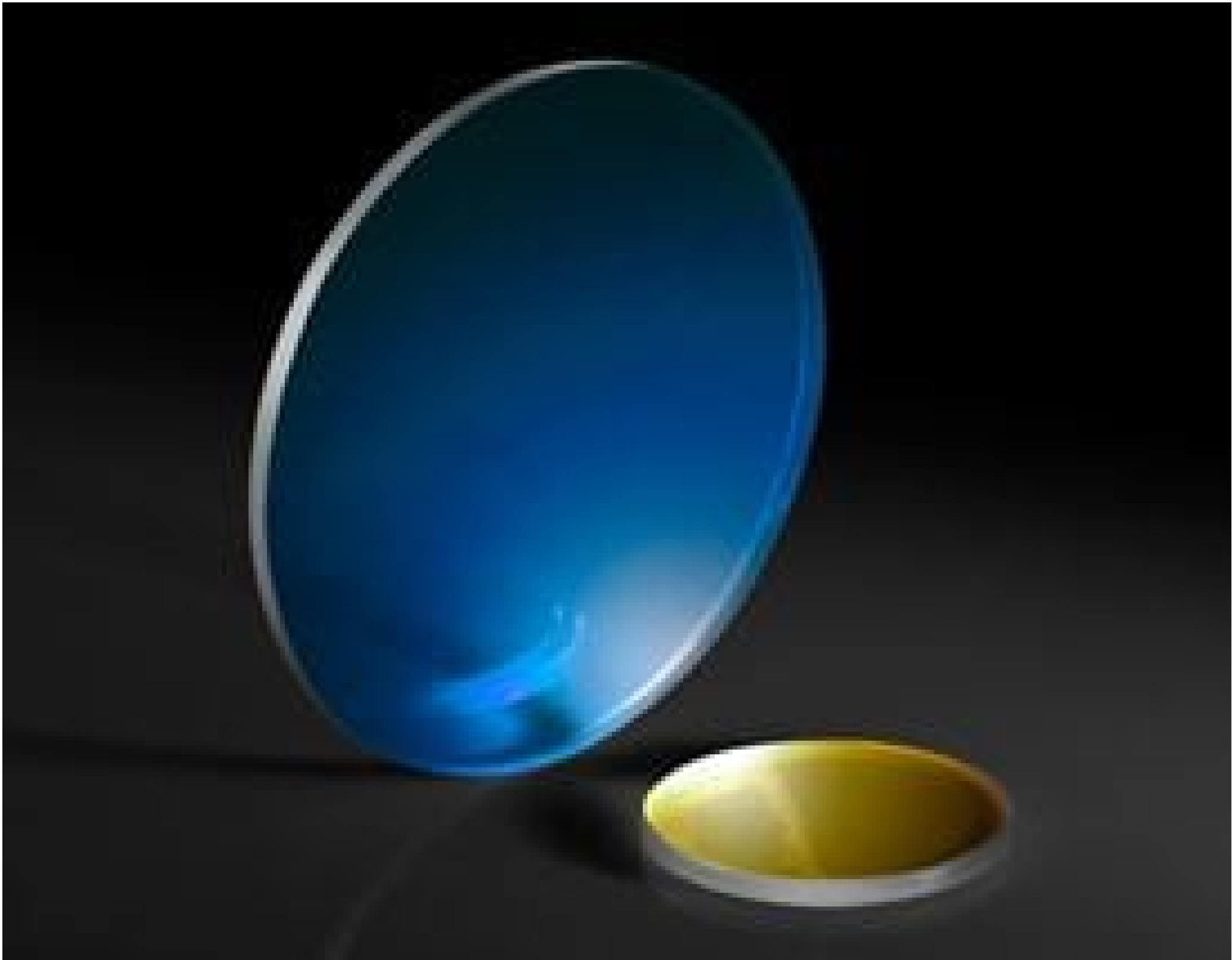


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38.1mm Dia., 4mm Thick, Uncoated, ISP Optics Lithium Fluoride (LiF) Window | LF-W-38-4

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

-

1

+

€259⁰⁰

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Qty 1+	€259,00 each
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i Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Model Number:

LF-W-38-4

Type:

Protective Window

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/mm²):
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/cm³):
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