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

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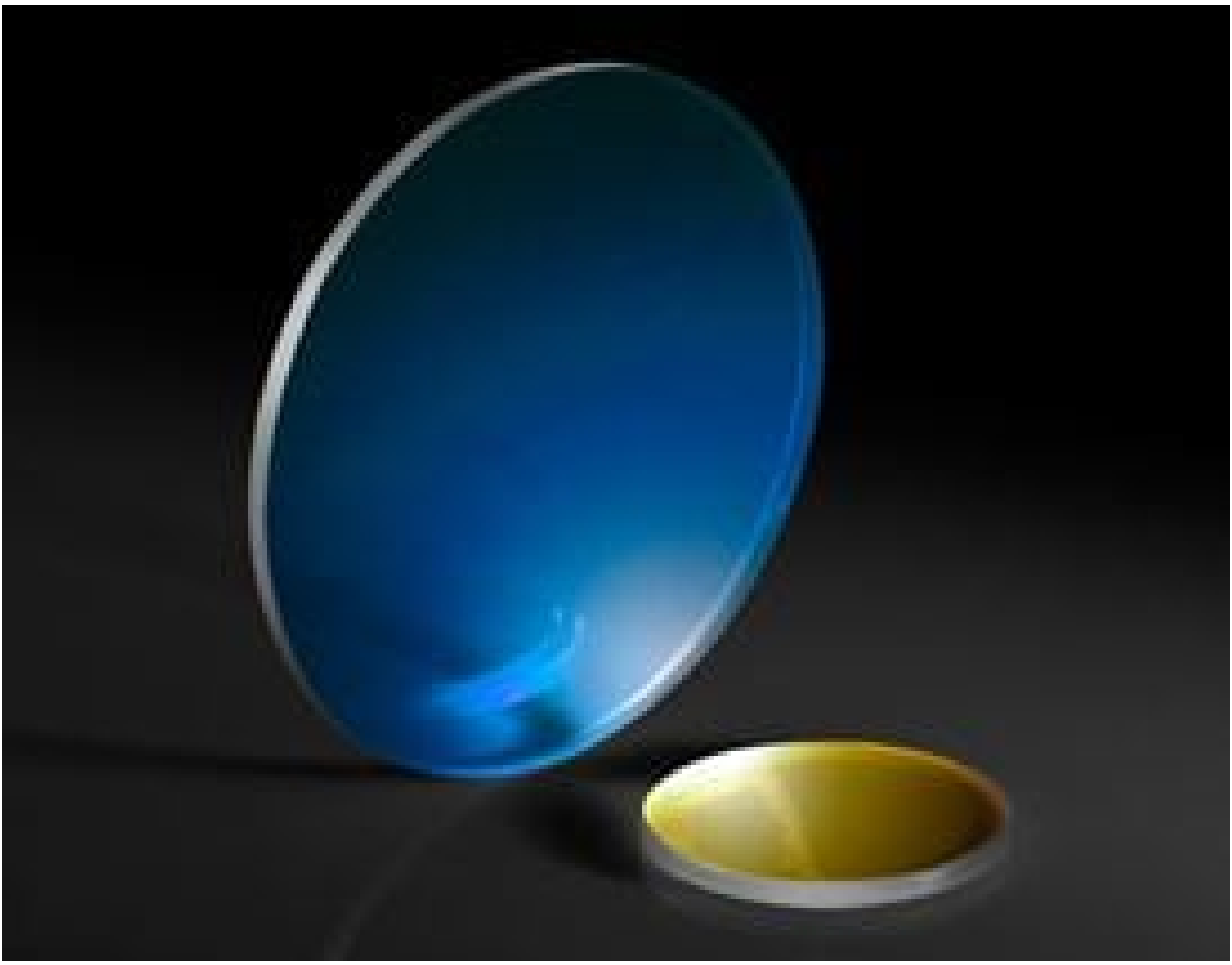

Stock **#24-478** CLEARANCE **1 In Stock**

- 1 + **£207**.20

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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/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