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Richardson Gratings™ 300 Grooves, 25 x 25mm, 3µm, Plane Ruled Reflection Grating

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Richardson Gratings™ High Precision Plane Ruled Reflective Diffraction Gratings



Stock #15-773 **20+ In Stock**

- 1 + ₹13,312

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General

Reflective Diffraction Grating **Type:**

1156 **Master Reference:**

Physical & Mechanical Properties

Dimensions (mm):

25.0 x 25.0 ±0.1

>90 **Clear Aperture (%)**:

Ruled Grating **Construction:**

25.00 **Length (mm):**

6.00 ±0.5 **Thickness (mm):**

25.00 **Width (mm):**

±1 **Centering of Ruled Area on Substrate (mm):**

±0.15 **Alignment of Grooves to Edge (°):**

<0.05 **Groove Spacing Tolerance (%):**

Optical Properties

300 **Groove Density (grooves/mm):**

1000 - 5000 **Wavelength Range (nm):**

3000 ±25 **Blaze Wavelength (nm):**

26.7 **Blaze Angle (°):**

72 (2nd order) **Peak Efficiency, Typical (%):**

Aluminium **Coating:**

Float Glass **Substrate:**

λ/4 **Reflected Wavefront, RMS:**

S and P **Polarization:**

1 **Spectral Order (m):**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

United States **Country of Origin:**

Edmund Optics India Private Limited **Imported By:**

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Product Details

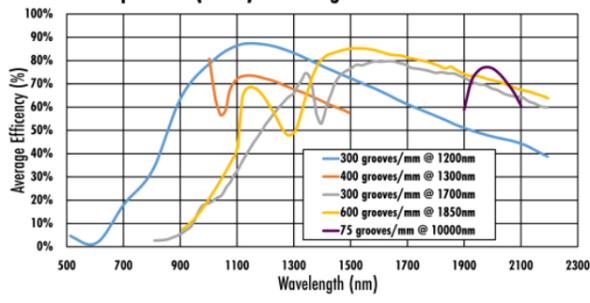
- Excellent Efficiency at Blaze Wavelength and Blaze Angle
- Superior Dimensional Tolerances
- Ideally Suited for Spectroscopic Applications
- Custom Sizes Available

Richardson Gratings™ High Precision Plane Ruled Reflective Diffraction Gratings are designed for consistent, predictable performance. The gratings are manufactured from highly accurate masters to provide a high level of repeatability to simplify OEM system designs by reducing the need for tedious alignment adjustments. With λ/4 reflected wavefronts and up to 90% diffraction efficiency, these gratings are specified to meet the needs of the most demanding applications such as high-resolution spectroscopy. Richardson Gratings™ High Precision Plane Ruled Reflective Diffraction Gratings feature bare aluminum coatings, allowing for options that range from 250 to 10,000nm with excellent peak efficiencies. Custom sizes available on request.

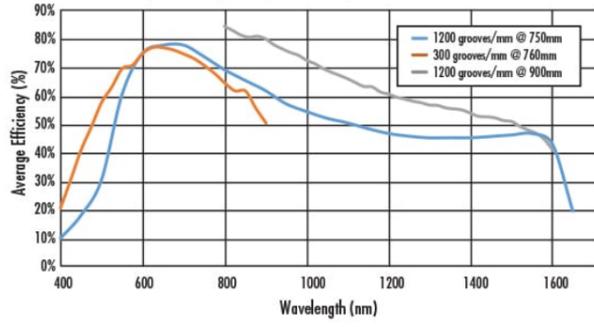
Note: The surface of these gratings is very sensitive and should never be touched when handling the optic. If cleaning is required to remove dust particles, non-contact cleaning using clean compressed air is recommended.

Technical Information

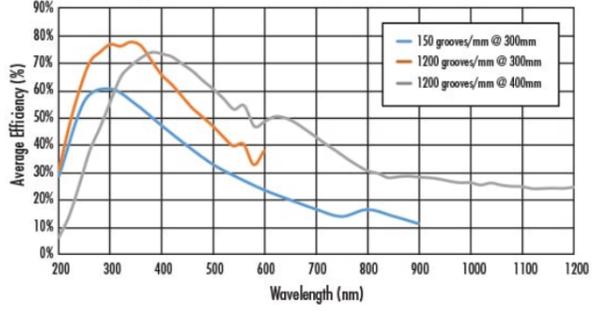
**Typical Efficiency Curves for High Precision Reflection Gratings
Optimized (Blaze) Wavelengths from 1200 - 1850nm**



**Typical Efficiency Curves for High Precision Reflection Gratings
Optimized (Blaze) Wavelengths from 750 - 900nm**



**Typical Efficiency Curves for High Precision Reflection Gratings
Optimized (Blaze) Wavelengths from 300 - 400nm**



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