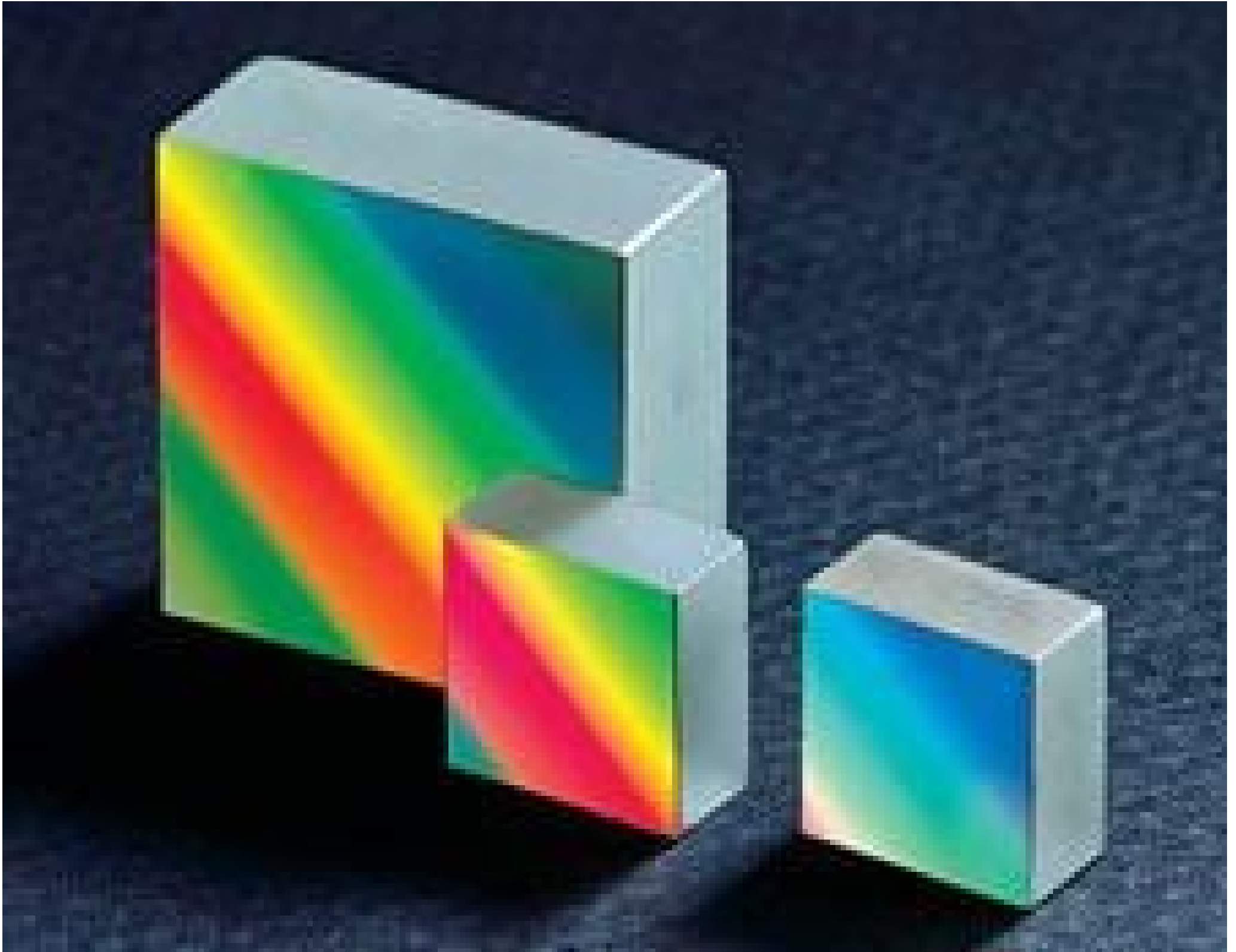


## 830 Grooves, 25mm Square, 800nm NIR Ruled Grating



Stock #43-850 **3 In Stock**

MRP ₹18,665

Price inclusive of all taxes

**ADD TO CART**

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | ₹18,665 each                  |
| Qty 10-24      | ₹16,798 each                  |
| Need More?     | <a href="#">Request Quote</a> |

### Product Downloads

### General

Reflective Diffraction Grating **Type:**

### Physical & Mechanical Properties

25.0 x 25.0 ±0.5 **Dimensions (mm):**

90 **Clear Aperture (%):**

**Construction:**

Ruled Grating

Direction of Grooves:

Parallel to Short Dimension

Length (mm):

25.00

Thickness (mm):

9.50 ±0.5

Width (mm):

25.00

Alignment of Grooves to Edge (°):

±0.5

## Optical Properties

Groove Density (grooves/mm):

830

Wavelength Range (nm):

700 - 3000

Blaze Wavelength (nm):

800

Blaze Angle (°):

19.38

Coating:

Bare Gold

Substrate:

Float Glass

## Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

[View](#)

Reach 247:

Compliant

Country of Origin:

United States

Imported By:

Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
Stage 1, Indiranagar, Bengaluru,  
Karnataka, India 560038  
Phone: +91- 80-6845 0000

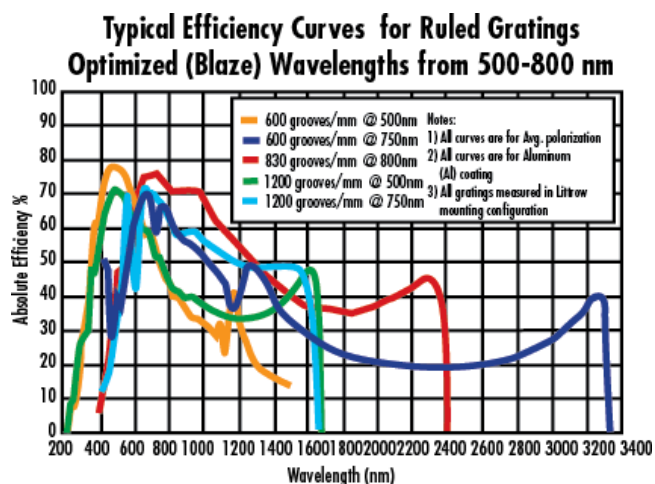
## Product Details

- Increased Reflection from 700 - 1100nm

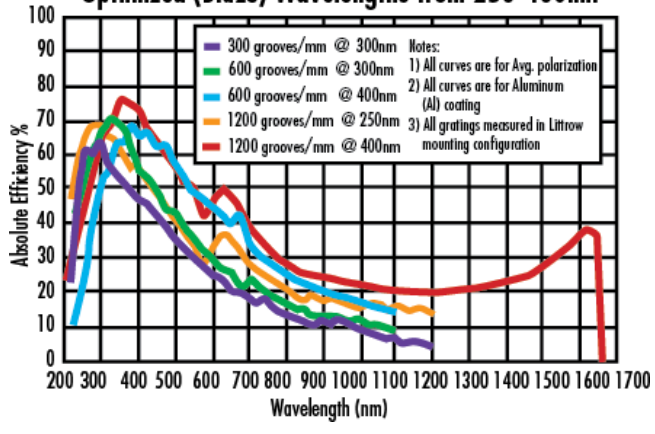
Near-IR (NIR) Reflective Gold Gratings are ruled gold-coated versions of our commercial gratings. These gratings provide increased reflection from 700 - 1100nm. This makes them an excellent choice for applications such as fiber optic pulse compression and spectroscopy setups using [silicon detectors](#). Near-IR (NIR) Reflective Gold Gratings feature a float glass substrate and a ruled grating construction. The gratings are available in three sizes, with varying groove densities and blaze wavelengths.

**Handling Gratings:** Gratings require special handling, making them prone to fingerprints and aerosols. Gratings should only be handled by the edges. Before attempting to clean a grating, please [contact us](#).

## Technical Information



### Typical Efficiency Curves for Ruled Gratings Optimized (Blaze) Wavelengths from 250-400nm



## 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