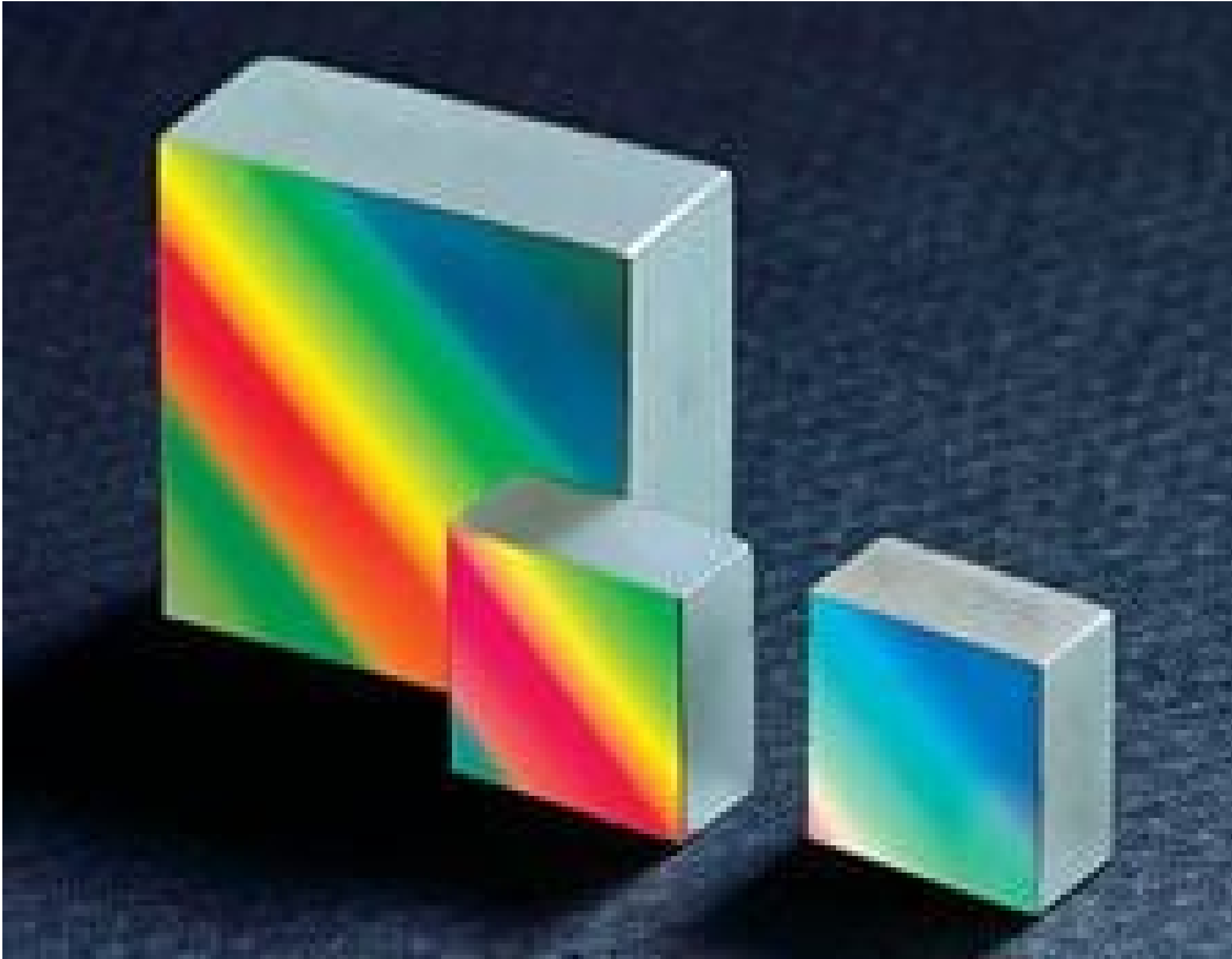


## 830 Grooves, 12.7mm Square, 800nm NIR Ruled Grating



Stock **#43-849** 4 In Stock

-

1

+

€155<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | €155,00 each                  |
| Qty 10-24      | €139,50 each                  |
| Need More?     | <a href="#">Request Quote</a> |

 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Reflective Diffraction Grating

Type:

Physical & Mechanical Properties

12.7 x 12.7 ±0.5

Dimensions (mm):

90

Clear Aperture (%):

|                                   |  |
|-----------------------------------|--|
| Construction:                     |  |
| Ruled Grating                     |  |
| Direction of Grooves:             |  |
| Parallel to Short Dimension       |  |
| Length (mm):                      |  |
| 12.70                             |  |
| Thickness (mm):                   |  |
| 6.00 ±0.5                         |  |
| Width (mm):                       |  |
| 12.70                             |  |
| 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: <input type="checkbox"/> |  |
| Float Glass                         |  |

|                             |  |
|-----------------------------|--|
| Regulatory Compliance       |  |
| RoHS 2015:                  |  |
| <a href="#">Compliant</a>   |  |
| Certificate of Conformance: |  |
| <a href="#">View</a>        |  |
| Reach 247:                  |  |
| <a href="#">Compliant</a>   |  |

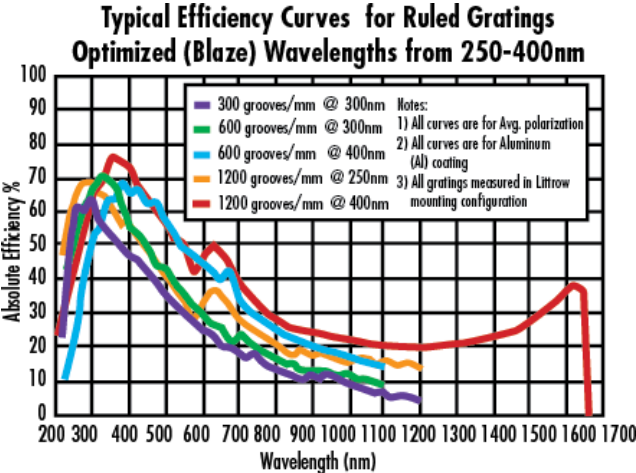
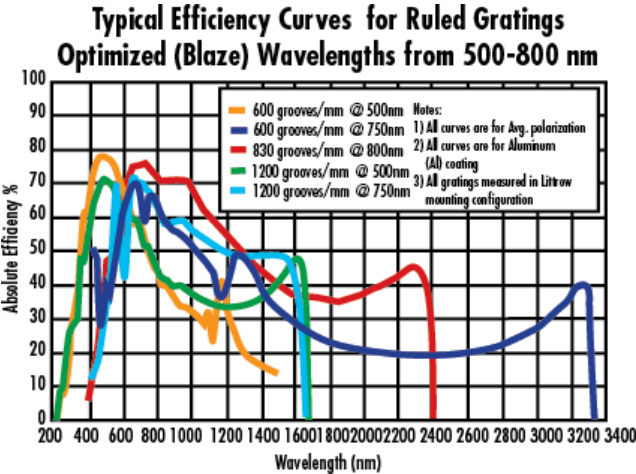
## Product Details

- 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



## 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