

[See all 20 Products in Family](#)

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



Stock #43-850 **4 In Stock**

- 1 + €185<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-9	€185,00 each
Qty 10-24	€166,50 each
Need More?	<a href="#">Request Quote</a>

**i** Prices shown are exclusive of VAT/local taxes

### Product Downloads

### General

Reflective Diffraction Grating **Type:**

### Physical & Mechanical Properties

25.0 x 25.0 ±0.5 **Dimensions (mm):**

90 **Clear Aperture (%):**

Ruled Grating	<b>Construction:</b>
Parallel to Short Dimension	<b>Direction of Grooves:</b>
25.00	<b>Length (mm):</b>
9.50 ±0.5	<b>Thickness (mm):</b>
25.00	<b>Width (mm):</b>
±0.5	<b>Alignment of Grooves to Edge (°):</b>

### Optical Properties

830	<b>Groove Density (grooves/mm):</b>
700 - 3000	<b>Wavelength Range (nm):</b>
800	<b>Blaze Wavelength (nm):</b>
19.38	<b>Blaze Angle (°):</b>
Bare Gold	<b>Coating:</b>
Float Glass	<b>Substrate:</b> <input type="checkbox"/>

### Regulatory Compliance

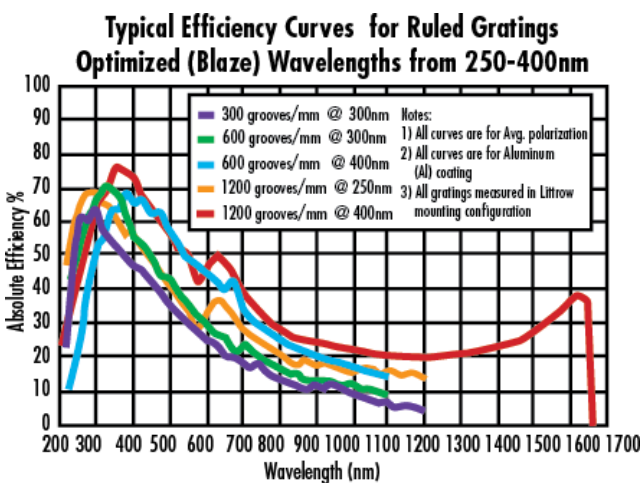
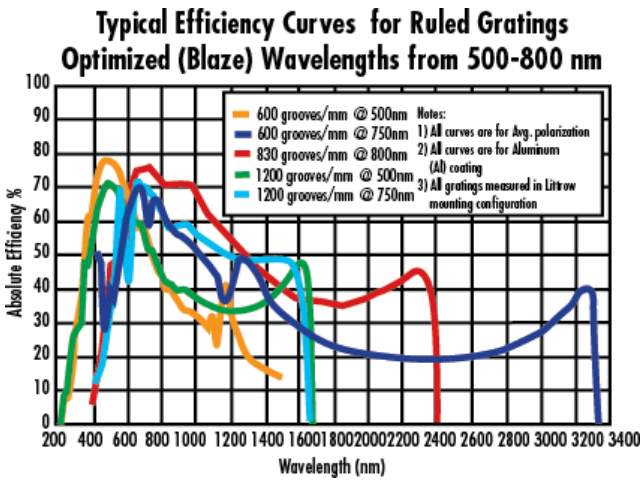
Compliant	<b>RoHS 2015:</b>
View	<b>Certificate of Conformance:</b>
Compliant	<b>Reach 247:</b>

## 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

---

;