

[See all 20 Products in Family](#)

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



Stock **#43-849** **3 In Stock**

⊖ 1 ⊕ **\$\$217<sup>00</sup>**

**ADD TO CART**

Volume Pricing	
Qty 1-9	<b>\$\$217.00</b> each
Qty 10-24	<b>\$\$195.30</b> each
Need More?	<a href="#">Request Quote</a>

### Product Downloads

### General

Reflective Diffraction Grating **Type:**

### Physical & Mechanical Properties

12.7 x 12.7 ±0.5 **Dimensions (mm):**

90 **Clear Aperture (%):**

Ruled Grating **Construction:**

<b>Direction of Grooves:</b>	
Parallel to Short Dimension	
<b>Length (mm):</b>	
12.70	
<b>Thickness (mm):</b>	
6.00 ±0.5	
<b>Width (mm):</b>	
12.70	
<b>Alignment of Grooves to Edge (°):</b>	
±0.5	

### Optical Properties

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

### Regulatory Compliance

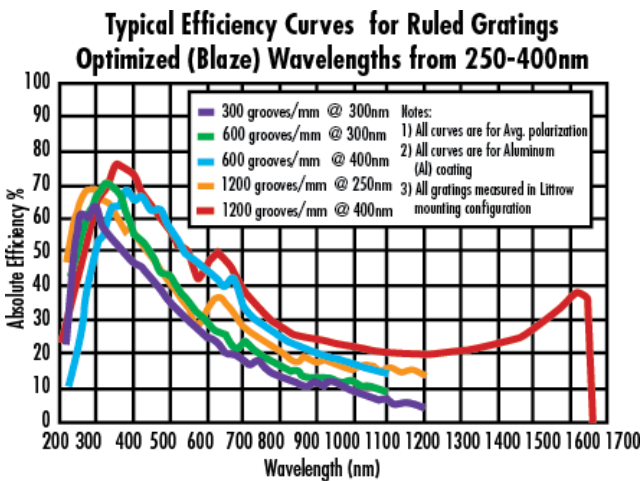
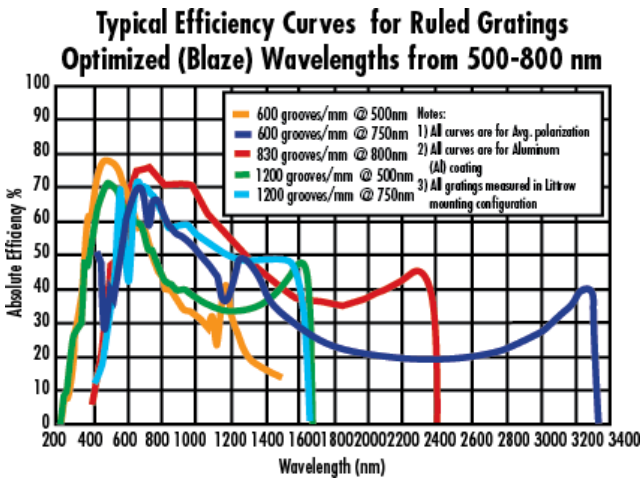
<b>RoHS 2015:</b>	
Compliant	
<b>Certificate of Conformance:</b>	
View	
<b>Reach 247:</b>	
Compliant	

## 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