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



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

− 1 + €155⁰⁰

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Volume Pricing	
Qty 1-9	€155,00 each
Qty 10-24	€139,50 each
Need More?	Request Quote

i 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 (%):**

Ruled Grating	Construction:
Parallel to Short Dimension	Direction of Grooves:
12.70	Length (mm):
6.00 ±0.5	Thickness (mm):
12.70	Width (mm):
±0.5	Alignment of Grooves to Edge (°):

Optical Properties

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

Regulatory Compliance

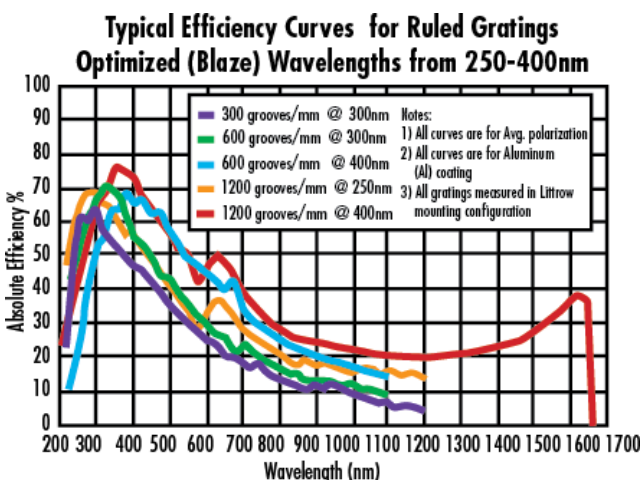
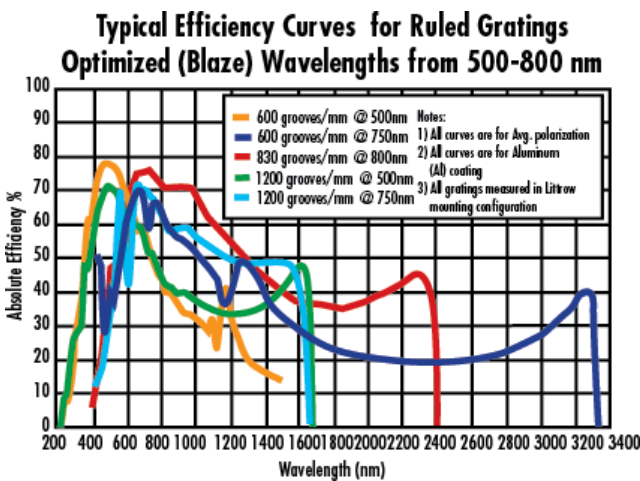
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

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

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