

# Concave Grating

## Rowland Circle Mounting

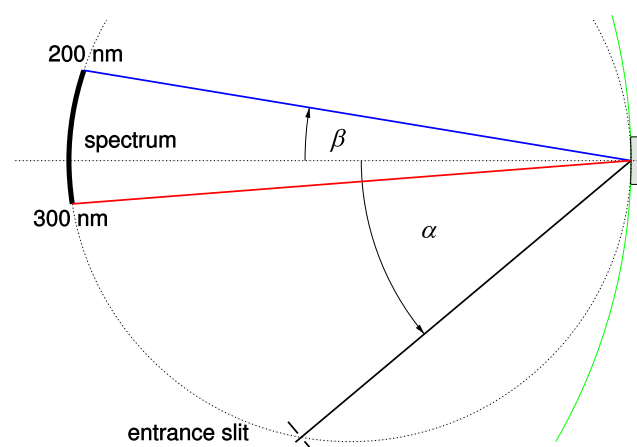


Order number 792032-0000-000

### Grating specification

Groove density	$2400 \pm 4$ l/mm
Groove profile	Sinusoidal
Diffraction grating area	$\geq \varnothing 58$ mm
Reflective coating	Aluminum (unprotected)
Grating master type	Holographically recorded
Grating type	Epoxy replica (copy)
Storage and transport temperature	-40 °C ... +70 °C (non-condensing environment)

### Mounting specification (Schematic drawing)



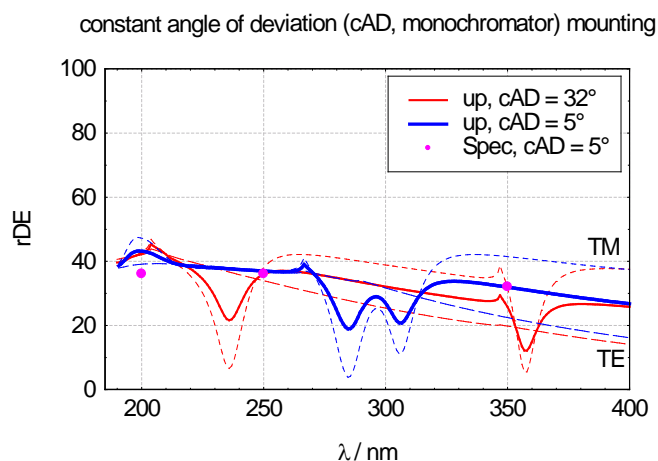
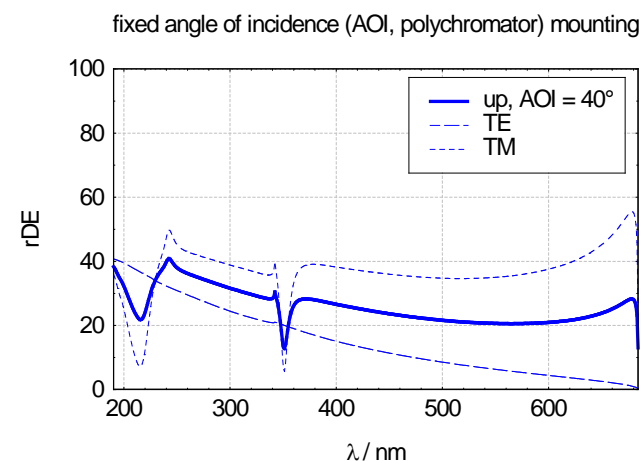
By historic convention clockwise incident and diffraction angles are positive.

### Optical grating characteristics

Diffraction efficiency (unpolarized @ cAD = 5°)

200 nm	$\geq 36$ %
250 nm	$\geq 36$ %
350 nm	$\geq 32$ %

### Typical relative diffraction efficiency (rDE) in first diffraction order



Typical efficiency curves based on rigorous electromagnetic modeling using measured AFM profiles. rDE refers to the ratio between diffracted power from the grating and reflected power from a mirror coated with the same material.

## Blank specification

Material	Zerodur (extremely low expansion glass ceramic)
Radius of curvature	749.89 mm
Protective bevel (left surface)	0.5 mm

