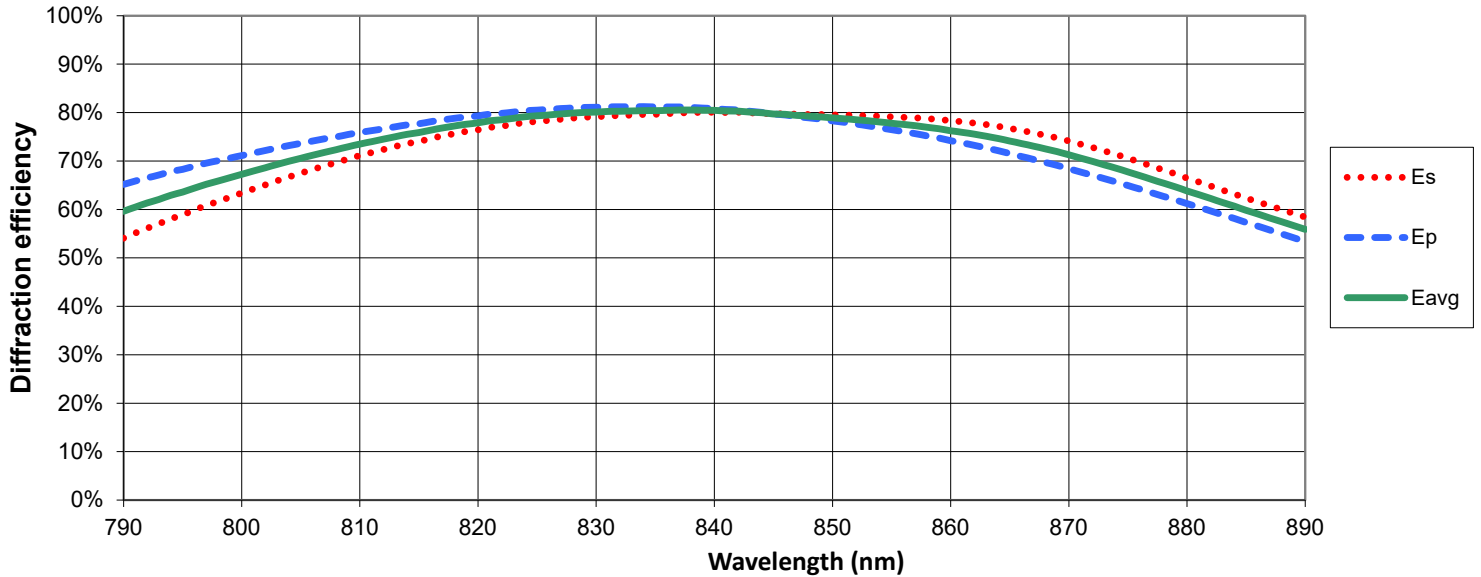
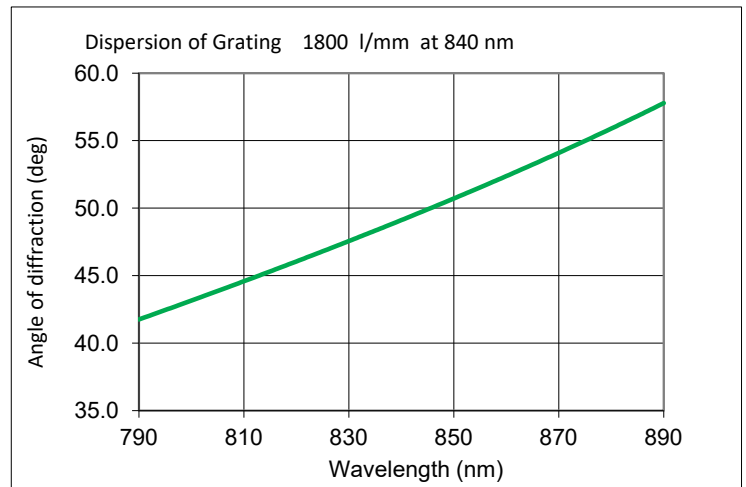
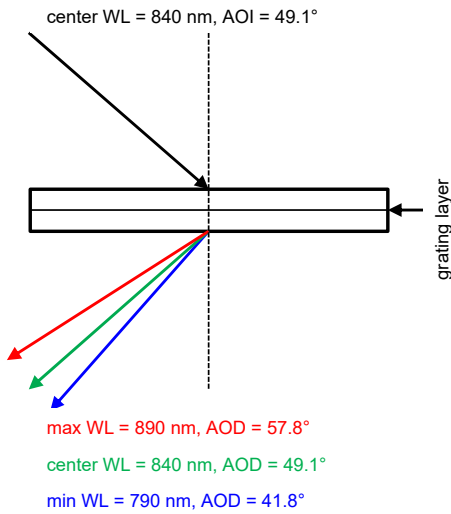
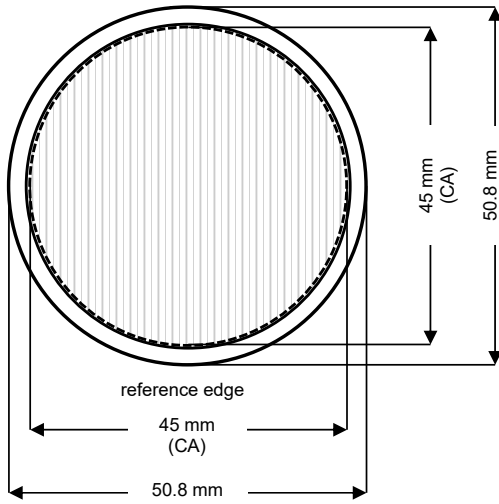


1st Order Diffraction Efficiency, HD 1800 l/mm @ 840 nm



Diffraction efficiency curves are theoretical. Actual performance will vary slightly.
Includes: glass absorption data, adhesive absorption data, film absorption data, manufacturing tolerances.

Specifications HD 1800 l/mm @ 840 nm	
Spatial Frequency	HD 1800 l/mm +/- 1 l/mm
Wavelength Range	790 to 890 nm
Center Wavelength	840 nm
Angle of Incidence	49.1°
Dimensions	50.8 mm dia +0/-0.15 mm
Thickness	6 mm +0.25/-0.25 mm
Clear Aperture	45 mm dia +1/-0 mm
Polarization	Average of S and P
Surface Quality	60/40
Substrate	N-BK7 or Equivalent
AR Coating	Yes
Grating Lines	Indicated by Mark on Edge
Wavefront	$\lambda/4$ RMS at 633 nm over CA



Cleaning, Handling, and Storage

Wasatch Photonics' Volume Phase Holographic Gratings, whether they are AR coated or not, can be easily be cleaned just as you would any other glass optic to remove fingerprints, dust, and contaminants. Use the standard optics cleaning method of "drop and drag". Gently wipe the grating with a clean, lint-free cloth/wipe using acetone or alcohol without much pressure; reagent-grade methanol or Windex may also be used. Do not use polishing compounds, abrasive materials, etc. Hard rubbing with such chemical or polishing compounds may damage the AR coating. AR coated surfaces will pass the "Scotch Tape" test.

Gratings may be stored or used at temperatures up to 100C and in cryogenic conditions at less than 100K.