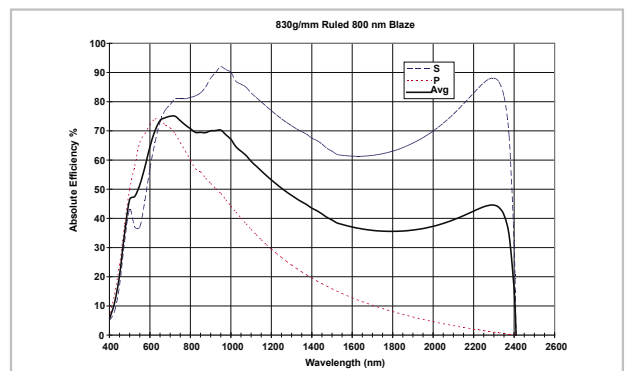
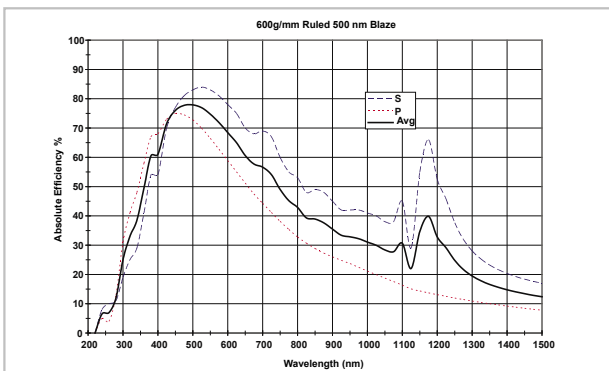
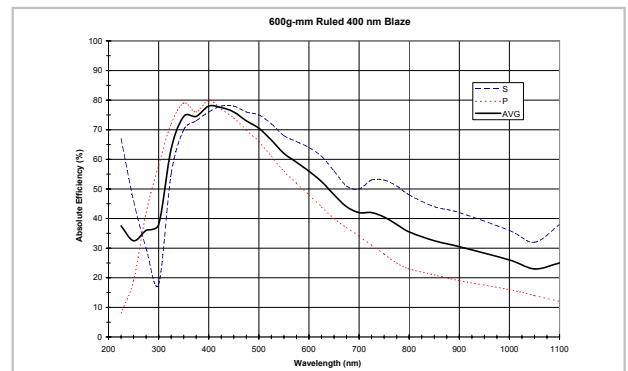
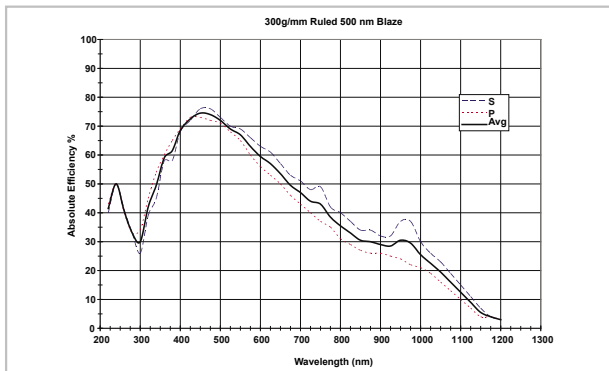


Grating Inventory

Standard replicated gratings are produced from ruled and holographic originals and are intended for use in moderate resolution spectrophotometers, spectrometers and monochromators where low cost, high efficiency and low stray light are of primary concern. Since standard gratings are cut from larger replicas, they are ruled over their entire surface. Incident radiation should, however, be restricted to 90% of the ruled area.

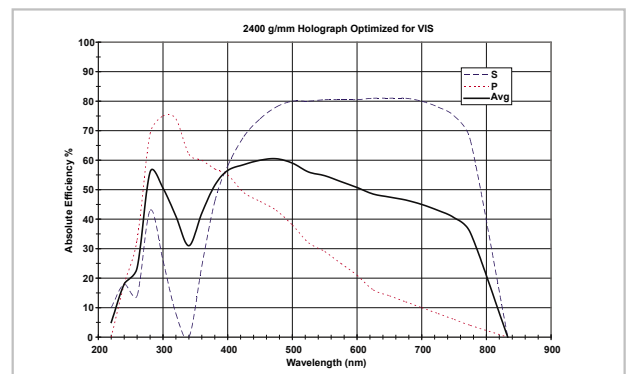
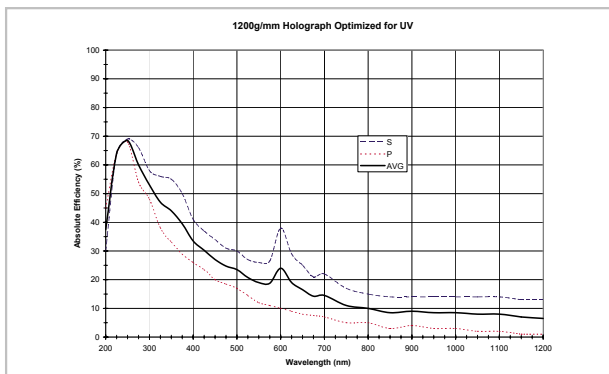
Standard Series Replicated Ruled Gratings

Grooves /mm	Blaze λ (nm)	Blaze angle	Dispersion (nm/mr)	12.7 x 12.7 x 6
300	500	4° 18'	3.32	3-4350
600	400	6° 53'	1.66	3-4640
600	500	8° 37'	1.65	3-4650
830	800	19° 23'	1.14	3-4880



Standard Series Replicated Holographic Gratings

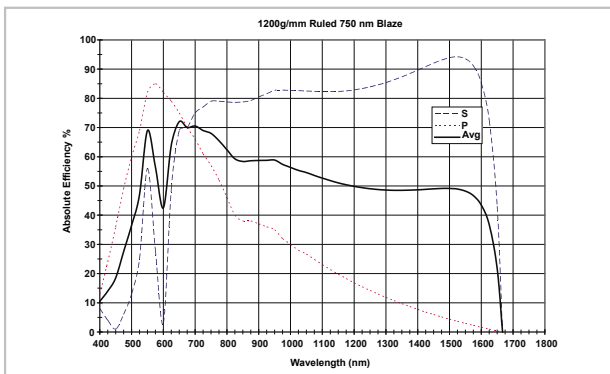
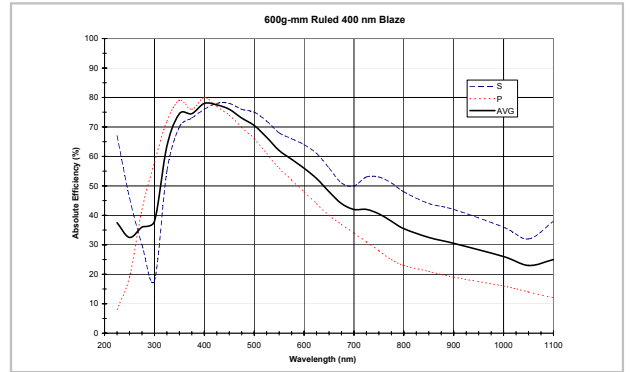
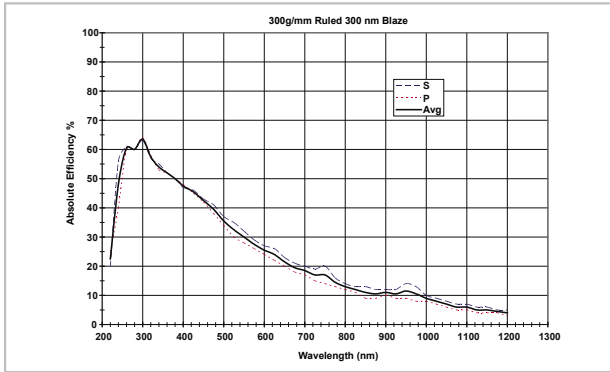
Grooves / mm	Optimum Efficiency	Dispersion (nm/mr)	25 x 25 x 9.5	30 x 30 x 9.5	25 x 50 x 9.5
1200	UV	0.82 @ 250 NM	3-2121	3-3121	
2400	VIS	0.33 @ 500 NM			3-7252



High Resolution Ruled Gratings

Replicating master gratings on Pyrex®, produces gratings with flatness, $\lambda/4$ or better, good thermal stability and resolution equal to 80-90% of the master. High resolution gratings are available in groove spacings from 120 to 1800 g/mm, blazed from 240 nm to 12.0 μ . For even better thermal stability, ask for a quotation for gratings replicated on Zerodur®.

Grooves / mm	Blaze λ (nm)	Blaze Angle	Dispersion (nm/mr)	12.7 x 12.7 x 6	25 x 25 x 9.5	12.5 x 25 x 9.5
300	300	2° 34'	3.33		3-2339	
600	400	6° 53'	1.66	3-4649		
1200	750	26° 44'	0.74			3-1179



Spectroscopic Grating

Grooves per mm / Blaze Wavelength	Optimum Efficiency	25 mm
600/300 nm	UV	3-2630

