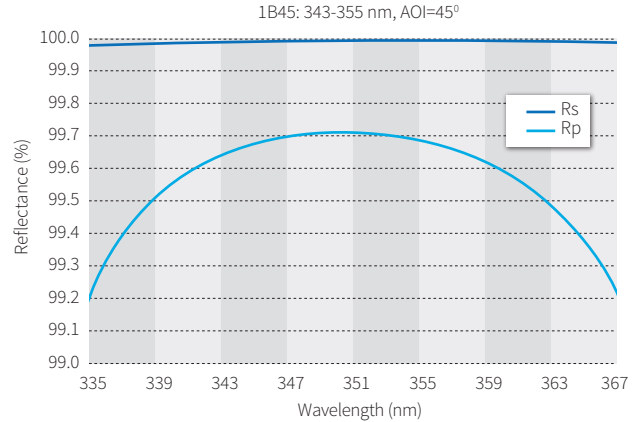


# HR Laser Line Mirrors



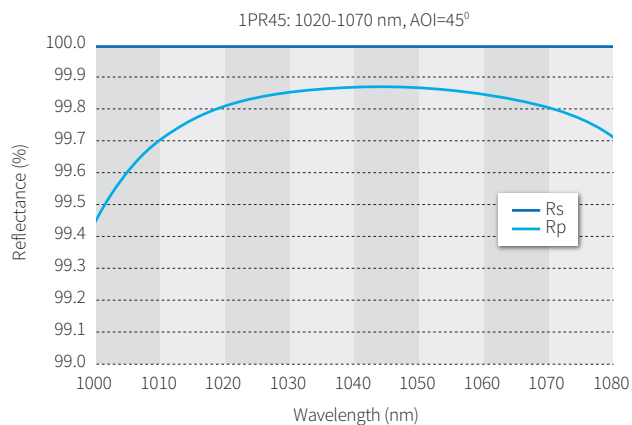
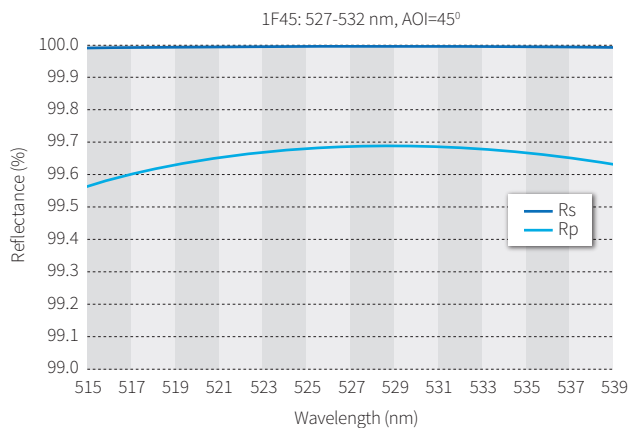
## Description

Dielectric HR Laser Line Mirrors provide higher reflectivity values than metallic mirrors, making them a perfect choice for high-performance laser systems. HR mirrors can be optimized for certain wavelength, angle of incidence and polarization. We design mirrors in-house to meet your desired specifications and provide high-performance optics. Every coating batch is tested to confirm reflectivity values. Mirrors can also be optimized for high LIDT and LIDT measurements can be conducted upon request.



## Features

- HR laser line coatings (HR) highly reflect at wavelength range of <math><10\%</math> of the central wavelength (CWL)
- Custom coatings are available for any wavelength in the range 0.19 - 5  $\mu\text{m}$
- Surface flatness, P-V:  $< \lambda/8$  @ 632.8 nm
- Laser damage threshold up to 35.2  $\text{J}/\text{cm}^2$  @ 532 nm, 6.2 ns, 50 Hz



### Typical items\*

Wavelength, nm	Reflectance s/p,%**	Substrate material	Product ID for AOI=45°, Ø25.4 mm
250-266	>99.0/>98.0	UVFS	1-OS-2-0254-5-[2AA45]
343-355	>99.5/>99.0	UVFS	1-OS-2-0254-5-[1B45]
380-420	>99.5/>99.0	UVFS	1-OS-2-0254-5-[1C45-GDD]
515	>99.5/>99.0	UVFS	1-OS-2-0254-5-[1E45]
527-532	>99.8/>99.3	BK7	1-OS-1-0254-6-[1F45]
760-840	>99.5/>99.0	UVFS	1-OS-2-0254-5-[1K45-GDD]
1030	>99.5/>99.0	UVFS	1-OS-2-0254-5-[1P45]
1020-1070	>99.8/>99.6	UVFS	1-OS-2-0254-5-[1PR45]
Reflectance, %		Product ID for AOI=0°, Ø25.4 mm	
343-355	>99.5	UVFS	1-OS-2-0254-5-[1B00]
760-840	>99.5	UVFS	1-OS-2-0254-5-[1K00-GDD]
1000-1060	>99.5	UVFS	1-OS-2-0254-5-[1P00]

\* Customized HR Laser Line Mirrors are available on request.

\*\* "p" stands for value of reflected p polarization at 45°, "s" stands for value of reflected s polarization beam at 45°.