

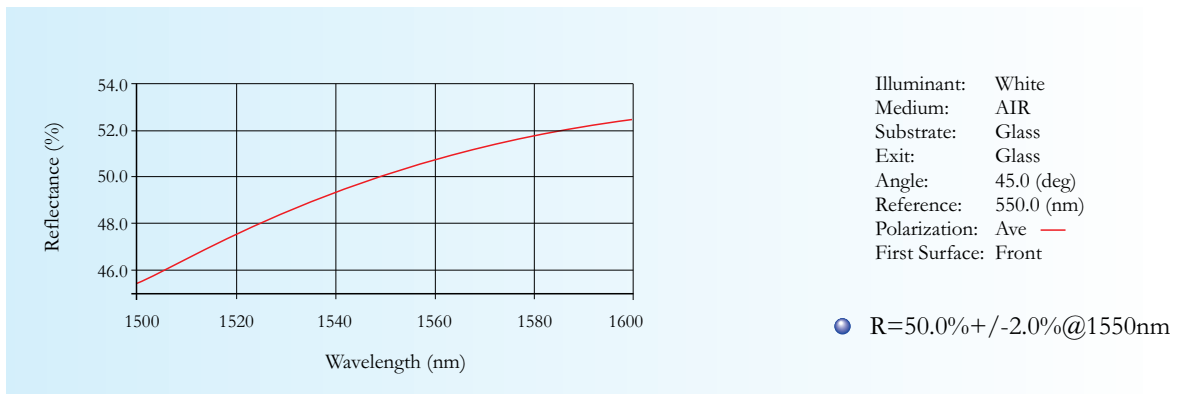
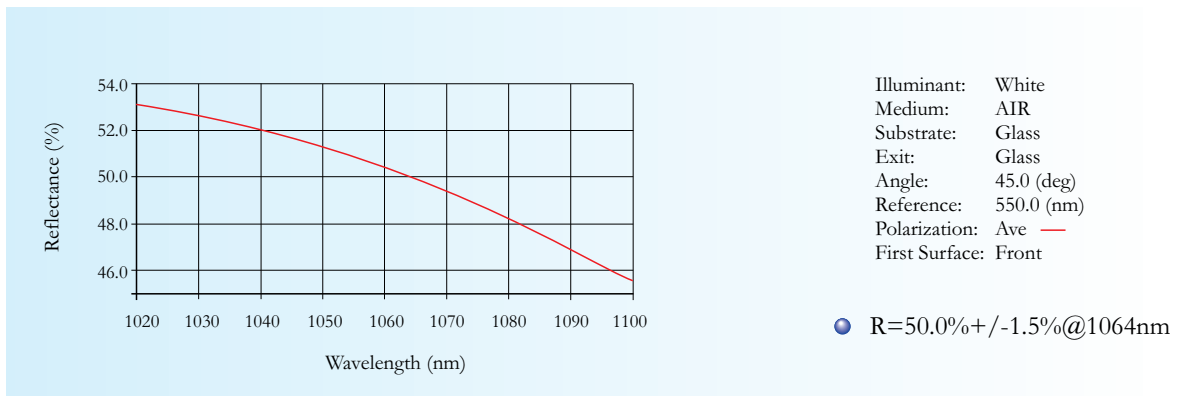
Partial Reflective Coatings

Now PHOTOP can provide all kinds of partial reflective coatings as follows:

- Single Wavelength Band Partial Reflective Coatings
- Broadband Partial Reflective Coatings
- Polarization Beamsplitter Coatings

Single Wavelength Band Partial Reflective Coatings (SPR):

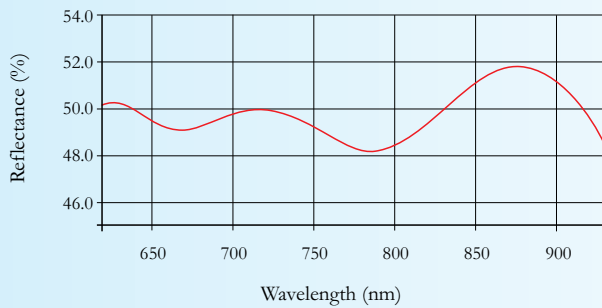
When a narrow wavelength radiation is incident on this coating, part of the radiation is reflected and part is transmitted. Such coating always show a high reflectivity for S-polarization radiation and high transmission for P-polarization radiations. The main application of this coating is to form a beamsplitter with 45° angle of incident.



Coating

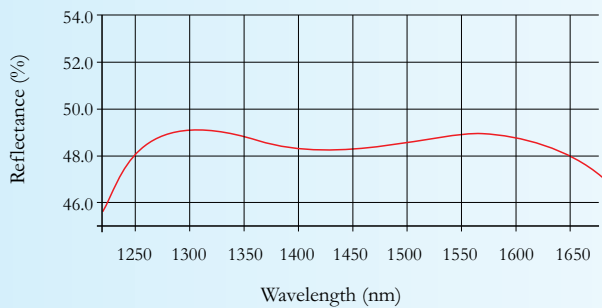
Broadband Partial Reflective Coatings (BPR):

This coating has similar performance of to that of the SPR coating (Single Wavelength Band Partial Reflective Coatings), but an obvious difference between them is that BPR can be applied to split the incident radiation over a wide spectrum. The wavelength range of light, partial reflectivity and partial transmission can be accurately controlled to customer's specifications by PHOTOP.



Illuminant: White
 Medium: AIR
 Substrate: Glass
 Exit: Glass
 Angle: 45.0 (deg)
 Reference: 550.0 (nm)
 Polarization: Ave —
 First Surface: Front

● R=50.0%+/-3.0%@650-900nm



Illuminant: White
 Medium: AIR
 Substrate: Glass
 Exit: Glass
 Angle: 45.0 (deg)
 Reference: 550.0 (nm)
 Polarization: Ave —
 First Surface: Front

● R=50.0%+/-3.0%@1250-1650nm

Polarization Beamsplitter Coatings (PBS):

This coating is designed to reflect nearly 100% of the S-Polarization and 100% transmission for P-polarization at a narrow or broadband wavelength bandwidth. Its main application is to be used as polarizing beamsplitter in single or broad wavelength laser system.

