



BIDIRECTIONAL REFLECTANCE MEASUREMENT SERVICES

Bidirectional Reflectance Distribution Function (BRDF) describes directional reflection characteristics by relating the incident irradiance from a given direction to its contribution to the reflected radiance in another specific direction. BRDF measurements are performed using our unique SOC210-BDR gonioreflectometer. This system performs automated measurements at customer specified wavelengths from 0.3 μm to 14 μm , with a full four degrees of angular freedom: incident polar, incident azimuthal, reflected polar and reflected azimuthal angles. Data from the sample is measured against a known standard.

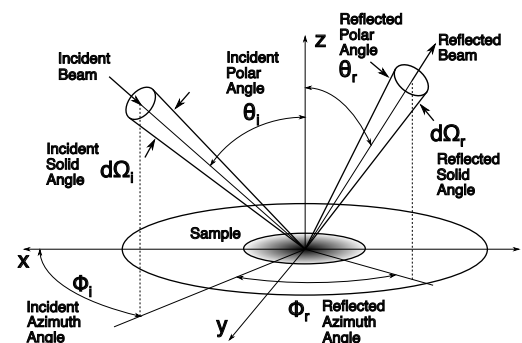


SERVICES

Product Code	Type	Incident Angle(s)	Description
8888-3111	In-Plane	One	BRDF at (1) Wavelength, 1 Incident Angle, In-Plane data only (-80 to 80°)
8888-3112	In-Plane	Three	BRDF at (1) Wavelength, 3 Incident Angles, In-Plane data only (-80 to 80°)
8888-3113	In-Plane	Four	BRDF at (1) Wavelength, 4 Incident Angles, In-Plane data only (-80 to 80°)
8888-3114	In-Plane	Eight	BRDF at (1) Wavelength, 8 Incident Angles, In-Plane data only (-80 to 80°)
8888-3121	In-Plane / Cross Plane	One	BRDF at (1) Wavelength, 1 Incident Angle, In-Plane, Cross-Plane
8888-3122	In-Plane / Cross Plane	Three	BRDF at (1) Wavelength, 3 Incident Angles, In-Plane, Cross-Plane
8888-3123	In-Plane / Cross Plane	Four	BRDF at (1) Wavelength, 4 Incident Angles, In-Plane, Cross-Plane
8888-3124	In-Plane / Cross Plane	Eight	BRDF at (1) Wavelength, 8 Incident Angle, In-Planes, Cross-Plane
8888-3131	Full Mapping	One	BRDF at (1) Wavelength, 1 Incident Angle, Full Mapping
8888-3132	Full Mapping	Three	BRDF at (1) Wavelength, 3 Incident Angles, Full Mapping
8888-3133	Full Mapping	Four	BRDF at (1) Wavelength, 4 Incident Angles, Full Mapping
8888-3134	Full Mapping	Eight	BRDF at (1) Wavelength, 8 Incident Angles, Full Mapping
8888-3141	Ring	One	BRDF at (1) Wavelength, 1 Incident Angle, Ring
8888-3142	Ring	Three	BRDF at (1) Wavelength, 3 Incident Angles, Ring
8888-3143	Ring	Four	BRDF at (1) Wavelength, 4 Incident Angles, Ring
8888-3144	Ring	Eight	BRDF at (1) Wavelength, 8 Incident Angles, Ring

SPECIFICATIONS

Measured parameter	Bidirectional reflectance
Instrumentation	SOC210-BDR (Surface Optics Corp., U.S.A.)
Spectral Range	.35 to 14 microns
Angular Coverage	Incident polar angles (θ_i) from 0° to 85° Incident azimuthal angles (ϕ_i) from 0° to 350° Reflected polar angles (θ_r) from 0° to 85° Reflected azimuthal angles (ϕ_r) from 0° to 345°
Accuracy	0.1°
Noise Floor	Less than 10 ⁻³ ster ⁻¹ or better (bandpass filter dependent)
Sample Size	< 4" square, flat
Lead Time	3 - 4 weeks



FOR MORE INFORMATION

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