

REFLET: Scattering Measurements

From Measurement to BRDF

The REFLET measures the scattered light for a fixed incident angle.

This measurement is achieved by scanning the scattered light either in one plane (2D scan) or in several planes (3D scan). We can scan the entire hemisphere. After a measurement, the measured data must be:

1. Re-calculated knowing the calibration of the bench
2. Transformed to BRDF values

REFLET response: The measurement of the Lambertian standard shows small deviation. We checked the accuracy of the REFLET bench. As shown in Figure 2, we obtain a quasi-flat BRDF which corresponds to the fact that we have measured the calibration sample.

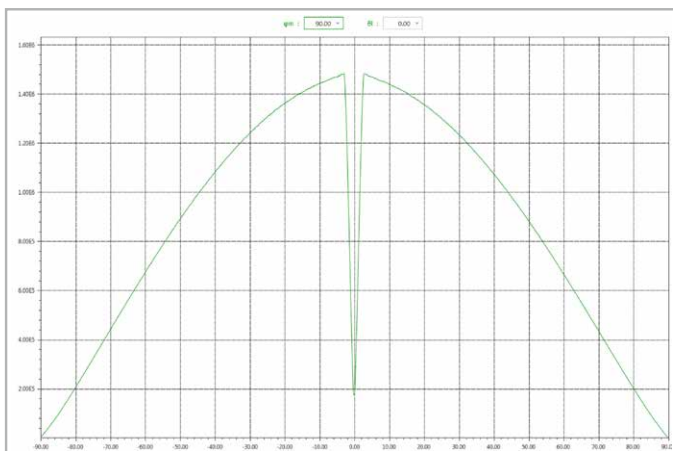


Figure 1: Measurement of the Spectralon: Lambertian intensity graphic

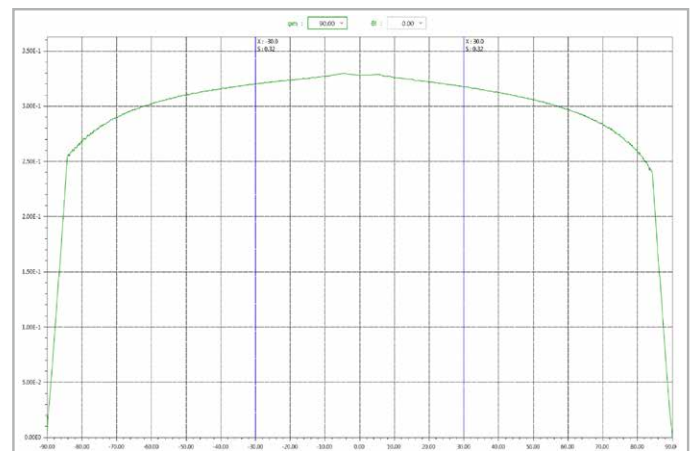


Figure 2: BRDF calculated: Lambertian BSDF graphic



Lambertian Standard
(Spectralon) from Labsphere