

Application Note:

From Measurement to BRDF



Lambertian Standard (spectralon) from Labsphere

The REFLET measurement bench is measuring the scattered light for a fixed incident angle. This measurement is done scanning the scattered light either in one plane (2D scan) or in several plane (3D Scan). We can scan the whole hemisphere.

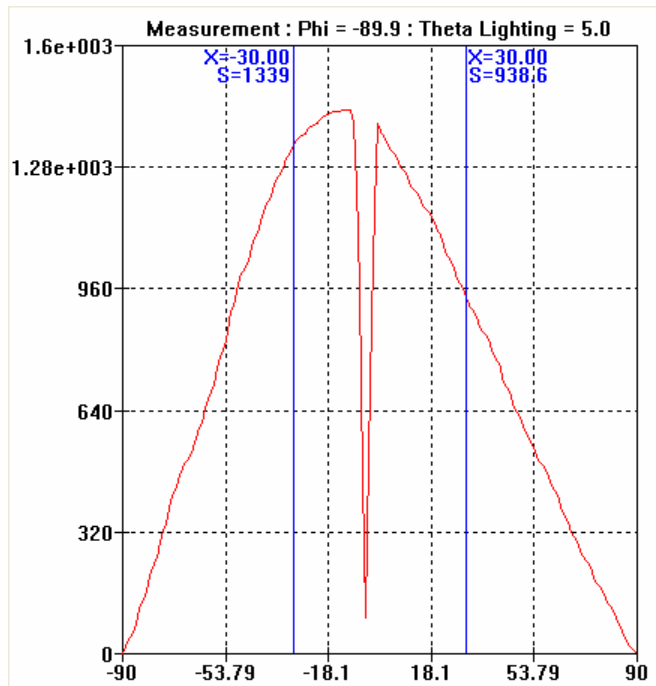
After a measurement, the measured data has to be:

1. re-calculate knowing the calibration of the bench
2. transform in BRDF values.

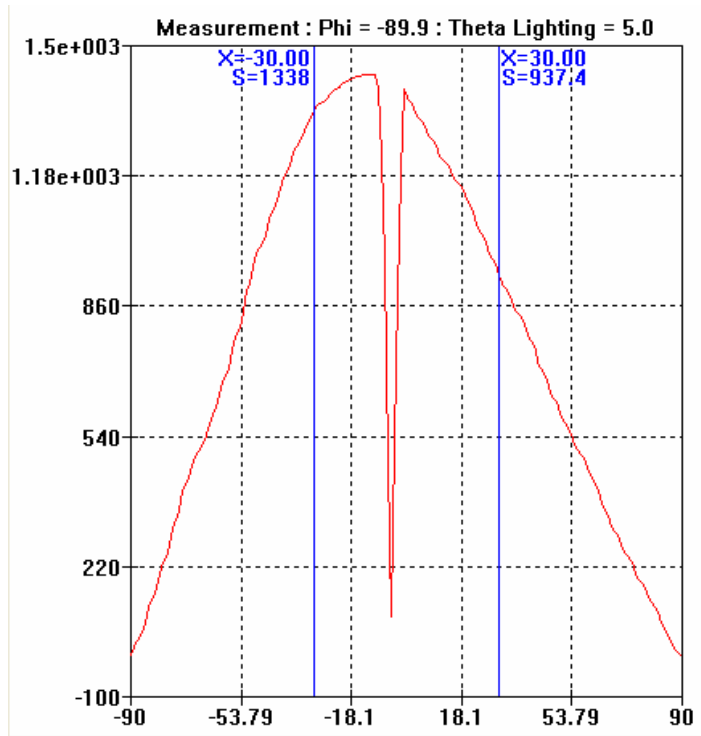
REFLET response: the measurement of the lambertian standard shows small deviation.

We are going to check the repeatability and the accuracy of the REFLET bench.

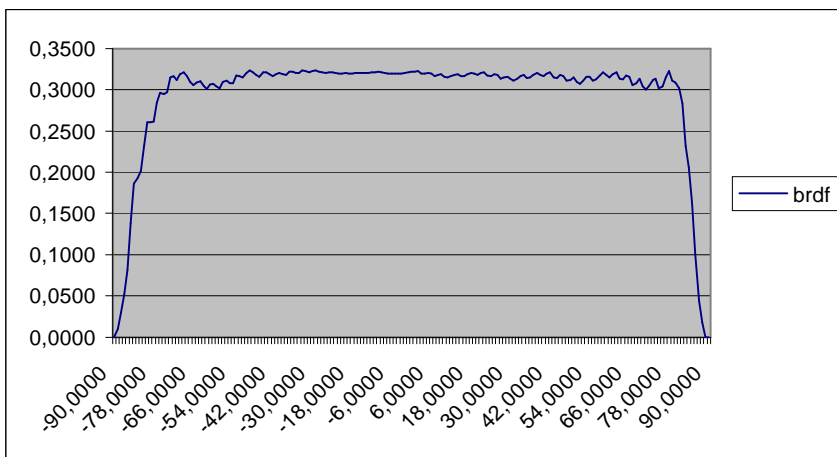
Measurement of the spectralon:



Measurement of the calibration sample = spectralon:



BRDF calculated:



We obtain a quasi-flat BRDF which corresponds to the fact that we have measured the calibration sample.