

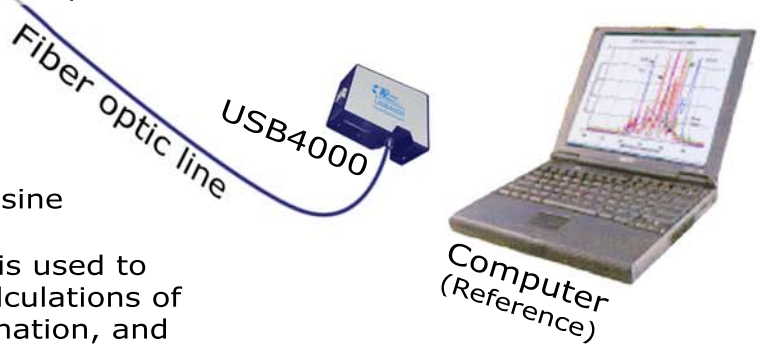
LUMINAIRE CHARACTERISTICS



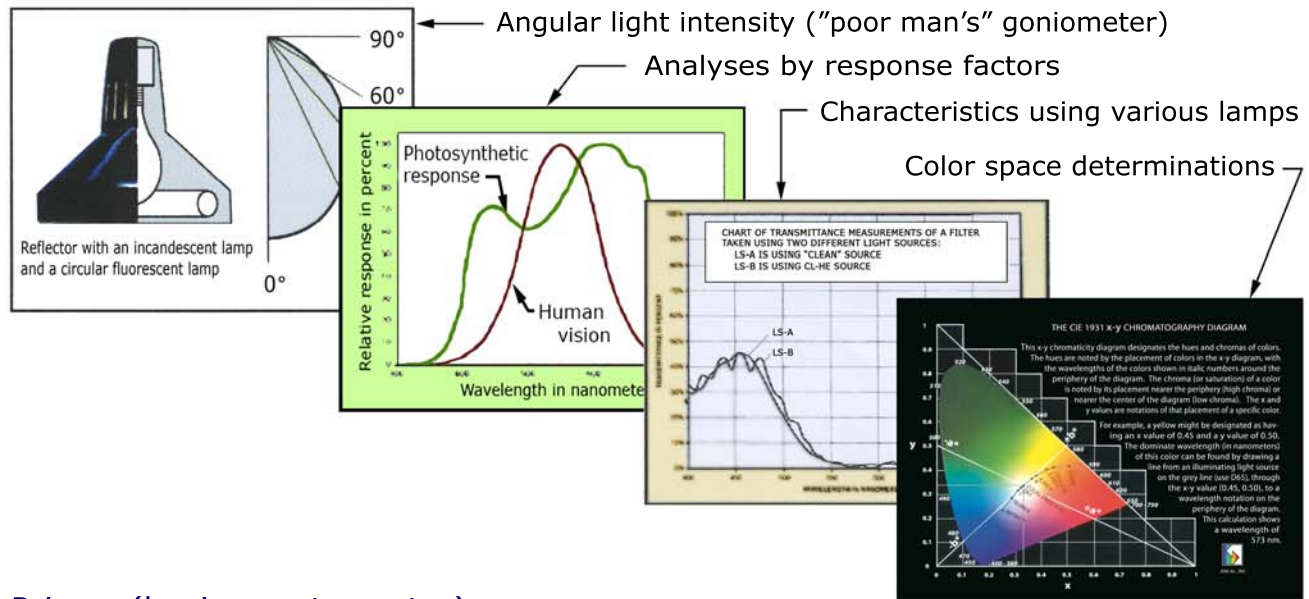
A cost effective portable system for spectral measurements relating to luminaire characteristics is shown below. As is shown, the system is based upon use of an Ocean Optics USB4000 spectrometer. The system can provide measurements of luminous intensity, illuminance, color space, color temperature, luminaire distribution response and other related quantities.

The basic system is as shown:

- (a.) The operating computer
- (b.) A USB4000 spectrometer
- (c.) A fiber optic input line
- (d.) An input accessory (a CC3 cosine corrector is used here)
- (e.) SpectraSuite software which is used to acquire spectra and to provide calculations of color space & temperature, illumination, and other luminous quantities.



Typical measurements for luminaire characterization:



Prices (basic spectrometer)

USB4000-VIS-NIR	Preconfigured spectrometer. 350 - 1000 nm	US\$ 2,887.00
P200-2-VIS-NIR	Fiber optic line, 200 um diameter by 2 meters	115.00
CC-3	Cosine corrector input termination	115.00
SpectraSuite	Cross-platform Spectroscopy Operating Software	199.00

*SpectraSuite is priced at \$150. if ordered with a spectrometer.

(additional accessories of interest)

74-VIS	Collimating lens, 250 - 3000 nm	184.00
74-ARC	Collimating lens, aberration corrected	230.00
74-DA	Collimating lens, direct spectrometer attachment	184.00
GER-KIT	Gershun field of view control with 10 FOVs	524.00

Prices are subject to change without notice. FOB point is Nevada, USA

The above items are available from:

Ancal, Inc., Henderson, Nevada 89053-0100, USA