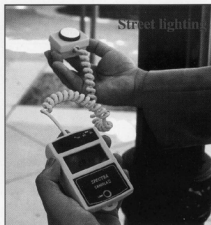


# Energy conservation while maintaining safety and productivity

Most accurate and reliable photometers in the industry



## SPECIFICATIONS:

**TYPE:** Hand-held Photometer for measuring illumination intensity and Luminance brightness measurements with 1" PhotoSpot attachment.

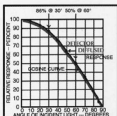
**TECHNOLOGY:** Dual stage front end op-amplifier, custom sealed hybrid integrated circuitry, Multiple Range Linear Circuit (MRLC)™ controlled by microcomputer and custom back-lit liquid crystal display for highest accuracy and reliability. Ultra-stable silicon detector.

**COSINE CORRECTED:** Cosine correction is accomplished by using a specially designed white molded plastic diffuser receptor. The diffuser provides cosine correction to a high degree of refinements; thus the detector correctly evaluates the light intensity regardless of direction.

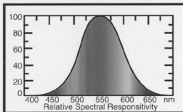


**COSINE CURVE:** As a beam of light is tilted so that it strikes a surface at an angle, the area covered by the beam increases. Since the amount of light in the beam remains constant, the illumination on the surface decreases. This decrease is proportional to the cosine of the angle, which the incident beam makes with a perpendicular to the surface.

The meter reading of a fully cosine-corrected light meter represents the true illumination of the light receiver regardless of the angle from which the light approaches. Cosine error is +/- 1%. See Cosine Corrected curve for candela II photometer.



**SPECTRAL RESPONSE:** Computer selected glass filters are designed to match the meter's detector response to the CIE photopic response (human eye response), which defines the eye's sensitivity to color. The combined spectral response is the product of the filter's transmission and the spectral responsivity of the detector. The photopic response of the photometer matches the CIE standard observer curve response to within 1% of the reading when using a standard tungsten source at 2856°K.



**MEASURING CAPABILITY:** Measures illuminance level in foot-candles (fc) and lux (lx); luminance measurement with PhotoSpot in foot-lamberts (fl).

**ILLUMINANCE LEVELS:** 0.1 TO 70,000 fc and 1 to 100,000 lx.

\* **LUMINANCE LEVELS:** 0.1 to 70,000 fl (with 1" photospot accessory).

**MEMORY:** Can store up to two readings in meter memory with store/ recall switch.

\* **CONTRAST RATIO:** Calculates ratio of two readings from 1:0:1 to 999:1, in fc or fl.

\* **AVERAGING:** Average of multiple readings and/or continuous averaging in foot-candle or footlamberts modes are made possible.

**ACCURACY:** +/- 5% of the full-scale value, when measuring blackbody sources

**CALIBRATION:** Calibration is traceable to the National Institute of Standard Technology (NIST). NIST traceable calibration certificate included.

**LAMP:** Electro-luminescent lamp for viewing displayed measurements at very low light levels.

**TEMPERATURE RANGE:** For maximum accuracy 32° to 130°F or 0° to 55° C.

**POWER SOURCE:** One 6 volt battery # A544, PX28L, PX28.

**DIMENSIONS:** 5 1/2" X 2 1/2" X 2". Weight: 6 ounces.

**WARRANTY:** One year limited warranty.

\* Features available with Spectra Candela II-A photometer.

**ORDERING INFORMATION:** To order a complete Candela II-A/PhotoSpot System, specify "System 300" (includes foam lined carrying case, battery and instructional manual). To order Candela II (application is only illumination measurements) specify Candela II model C-305 (includes carrying case and battery).

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