



**Solarmeter®** Excellence in Metrology

BY SOLARLIGHT COMPANY, INC.

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## Application Bulletin – Model 7.5 Solarmeter

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Model	Description	Yes	No
<p><b>7.5</b></p>	<p>Erythema Effective (Eeff) irradiance            Range 0-19.99 W/m<sup>2</sup></p> <p>Erythema-effective (Eeff/Ery) meter for measuring UV “sun burning rays” from UV lamps. Sensor/filter response closely follows the erythema action spectrum (EAS) which enables accurate readings from virtually any UV light source.</p> <p>Application Notes:</p> <ol style="list-style-type: none"> <li>1. Measure Eeff irradiance from UV tanning lamps.</li> <li>2. Check new tanning beds for output.</li> <li>3. Check lamp aging from new to depreciated output.</li> </ol> <p>Procedure:</p> <p>Press and hold push button switch while aiming top sensor at light source.</p> <p>The reading represents instantaneous UV Eeff intensity at the distance meter sensor is being held from the source. Moving the meter closer to UV source will increase reading.</p> <p>Take care to measure reading at distance and location recommended by bed manufacturer. Generally body position distance is most appropriate. Placing meter on bed bench pointing up at closed canopy in center of bed represents the most accurate overall reading. Let bed warm up at least 5 minutes.</p> <p>Hold meter at location of exposure to determine intensity at the subject position of concern. When readings fall 25-30% below new readings the lamps need replacement.</p> <p>Note regarding scientific units: To convert Model 7.5 meter reading to UV Index.... multiply by 40. Example: 0.30 W/m<sup>2</sup> x 40 = 12.0 UV Index.</p>	<p>X</p> <p>X</p> <p>x</p>	