



ENGLISH

Datasheet

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RS-137

Luminance Meter



FEATURES

- Dual Display, 4-digit LCD reading
- Spectral Sensitivity close to CIE photopic Curve
- Measuring Levels Ranging 0.001 to 1999k cd/m², 0.001 to 580.0k fL, Autoranging 7 step
- Accurate and Instant response
- Luminance ratio A/B, deviation %A, different B-A and peak luminance measurements
- User calibration factor and color-correction functions
- Accumulation luminance measurement
- Max/Min/AVG function
- Backlit function
- Comparator function
- Data Hold function.
- Data memory and read function
- Data logger function.
- USB Interface

APPLICATIONS

The Luminance meter is a handy, easy to use and precision measuring instrument. It allows the accurate measurement of the luminance in cd/m^2 or fL.

$$1 \text{ cd/m}^2 = 0.2919 \text{ fL} = 0.0929 \text{ cd/ft}^2$$

$$1 \text{ fL} = 3.426 \text{ cd/m}^2 = 0.3183 \text{ cd/ft}^2$$

$$1 \text{ cd/ft}^2 = 10.76 \text{ cd/m}^2 = 3.142 \text{ fL}$$

Contact Measurements

Placed directly on the surface to be measured:

Suitable for measuring

- monitors
- television screens
- light boxed
- light displays

Measuring at a Distance

The measuring angle being 2 degree.

Suitable for measuring

- monitors taking the existing ambient light into consideration
- lighting of streets areas
- lighting of sports areas
- lighting contrasts at work stations
- lighting in museums
- uniform illumination of projection screens

SPECIFICATIONS

Display	Dual display 4 digit LCD read out.
Measuring Range	9.999, 99.99, 999.9, 9.999k, 99.99k, 999.9k, 1999k cd/m ² 9.999, 99.99, 999.9, 9.999k, 99.99k, 580.0k fL Auto ranging (7 step) (1 fL = 3.426 cd/m ²)
Measuring Angle	2°
Overrange Display	OL is displayed
Resolution	0.001 cd/m ² , 0.001 fL
Accuracy	±3%rdg±5dgt on all ranges except 9.999 and 99.99 ranges is ±10%rdg±10dgt. (Calibrated to standard incandescent lamp, 2856°K, at 25°C/77°F)
CIE Photopic f '1	≤6%
Temperature Characteristics	±0.1%/ °C
Measuring Rate	Approximately 5 time/sec
Photosensor	Silicon photodiodes
Data Memory Capacity	200 sets. (Direct reading from LCD display)
Data Logger Capacity	microSD CARD 4GB
Operating / Storage Conditions	0°C to 50°C <80% RH -10°C to 60°C <70%RH
Power Source	6 pcs 1.5V AAA size Battery
Battery Life (typical)	50 hours
Photosensor Lead Length	90 cm (approx.)
Photosensor Dimensions	40φ×158(L)mm
Dimension	150(L) × 72(W) × 35(H)mm
Weight	Meter: 235g, Photosensor: 210g
Accessories	Carrying case, Instruction manual, Battery, CD software, Micro-USB cable.