

Model R8150

Light Meter



Instruction Manual

Table Of Contents

Features	2
Specifications	3
Panel Description	4
Operating Instructions	5-6
Battery Replacement	6

Features

- · Easy to operate with user selectable ranges
- Convenient pocket size design
- 4-digit LCD display
- Max and data hold functions
- Over range and low battery indicators
- Auto shut-off

Specifications

Measuring Range(s): Lux: 0 to 50,000

Fc: 0 to 5,000

Accuracy: <10,000 Lux/Fc: ±(5% rdg.+ 10 dgt)

>10,000 Lux/Fc: ±(10% rdg.+ 10 dgt)

Resolution: Lux/Fc: 0.1
Response Time: <1 sec.

Sensor Type: Photo diode & color correction filter

Autoranging: No (Manual)
Display: 4-digit LCD

Data Hold: Yes
Max: Yes
Overrange Indicator: Yes

Sampling Rate: 1.5 times/sec.
Auto Shut-off: Yes (after 15 mins)

Kick Stand: Yes
Low Battery Indicator: Yes

Power Supply: 12V battery

Product Certifications: CE

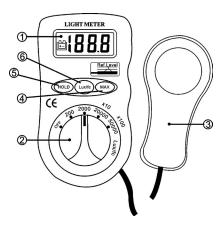
Operating Temperature: 32 to 122°F (0 to 50°C) Storage Temperature: 14 to 140°F (-10 to 60°C)

Operating Humidity Range: 10-80%

Dimensions: 7.4 x 2.5 x 1" (188 x 64.5 x 24.5mm)

Weight: 5.6 oz (160g)

Panel Description

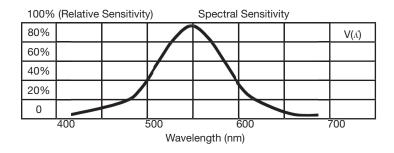


- LCD display: 1999 counts LCD display with LUX, Fc, LOBAT, MAX, HOLD indication
- 2- Power /Function/Range switch: Turn power ON or OFF and select measurement function and ranges.
- 3- Photo Detector: Long life silicon photo diode inside
- 4- MAX. HOLD: If you press the MAX. button, the maximum reading will be held. Pressing the button once again, will release the hold and allow a further measurement.
- 5- DATA HOLD: The reading will be held when the Data Hold button Switch is pressed. If the button Switch is pressed once again, it will release the hold and allow a further measurement.
- 6- Function button: Selects measurement functions of Lux or Fc

Operating Instructions

Measuring Light

- 1. Turn the Power/Function/Range switch to select the range to desired (x1 Lux/Fc , x10Lux/Fc, x100Lux/Fc) range.
- 2. Remove the photo detector to the light source in a horizontal position.
- 3. Read the illuminance nominal from the LCD display.
- 4. Over-range: If the instrument only displays one "1" in the M.S.D. the input signal is too strong, and a higher range should be selected.
- When the measurement is completed, replace the photo detector from the light source.
- 6. Spectral sensitivity characteristic: To the detector, the applied photo diode with filters makes the spectral sensitivity characteristic almost meet C.I.E. (International Commission on Illumination) photopia curve V(A) as the following chart described.



7. Recommended Illumination:

Locations	Lux
*Office	
Conference, Reception room	200 ~ 750
Clerical work	700 ~ 1,500
Typing drafting	1000 ~ 2,000
*Factory	
Packing work, Entrance passage	150 ~ 300
Visual work at production line	300 ~ 750
Inspection work	750 ~ 1,500
Electronic parts assembly line	1500 ~ 3,000
*Hotel	
Public room, Cloakroom	100 ~ 200
Reception, Cashier	200 ~ 1,000
*Store	
Indoors Stairs Corridor	150 ~ 200
Show window, Packing table	750 ~ 1,500
Forefront of show window	1500 ~ 3,000
*Hospital	
Sickroom, Warehouse	100 ~ 200
Medical Examination room	300 ~ 750
Operating room	
Emergency Treatment	750 ~ 1,500
*School	
Auditorium, Indoor Gymnasium	100 ~ 300
Class room	200 ~ 750
Laboratory Library Drafting room	500 ~ 1,500

Battery Replacement

If the sign "BAT" appears on the LCD display, it indicates that the battery should be replaced. Open the battery case and replace the expired battery with new battery. (1 x 12V battery)