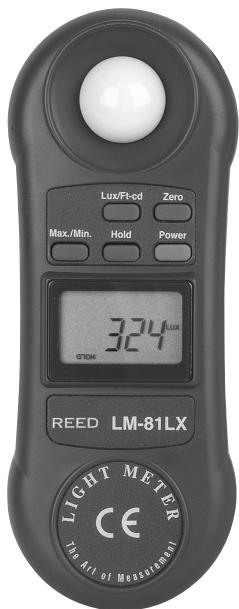


# REED

## Model LM-81LX

### Illuminometer



## Instruction Manual

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## Features

- Tiny bone shape with lightweight and small size case design are suitable for handling with one hand
- Wristlet design provides extra protection to the instrument especially for user one hand operation
- Exclusive photo diode and color correction filter light sensor, spectrum meets C.I.E. photopic
- Built-in microprocessor circuit assures excellent performance and accuracy
- Concise and compact buttons arrangement, easy operation
- Memorize the maximum and minimum value with recall
- Lux/Foot-candle selectable by pressing button on the front panel
- Zero button design makes light meter calibration
- Hold function to freeze the current reading value

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# Specifications

## General Specifications

Display	13 mm LCD display
Measurement	Light (Lux/Foot-candle)
Operating Humidity	Max. 80% RH.
Operating Temperature	0 to 50°C (32 to 122°F)
Over Input Display	Indication of “- - - -”
Power Supply	006P DC 9V battery (Heavy-duty type)
Power Consumption	Approx. DC 6.2 mA
Weight	160g (battery included)
Dimensions	156 H x 60 W x 33 D mm (6.14 x 2.36 x 1.29”)
Accessories	Optional carrying case also available (Model CA-52A)

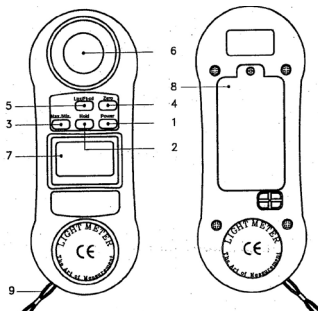
## Electrical Specifications (23 ± 5°C)

Measurement	Range	Resolution	Accuracy
Lux	0 to 2,200 Lux	1 Lux	± 5% rdg ± 8 dgt
	1,800 to 20,000 Lux	10 Lux	
Foot-candle (Fc)	0 to 204.0 Fc	0.1 Fc	
	170 to 2,000 Fc	1 Fc	

Foot-candle = Ft-cd = Fc

## Instrument Description

- 1 - Power Button
- 2 - Hold Button
- 3 - Max./Min. Button
- 4 - Zero Button
- 5 - Lux/Ft-cd button
- 6 - Light Sensor
- 7 - LCD display
- 8 - Battery Compartment / Cover
- 9 - Wristlet



## Measuring Procedures

1. Power on the instrument by pressing the “Power Button” (#1, above).
2. Position the “Light Sensor” (#6, above) directly under the light source. Meanwhile the light reading value will be displayed on the LCD display.
3. Press the “Lux/Ft-cd Button” (#5, above) to select measuring unit “Lux” or “Ft-cd”

### **Zero Offset Adjustment of Light Function**

- For best results you should zero the light sensor prior to use in a dark environment. To achieve this, place the light sensor end of the meter under a desktop or flat surface to block any light. Press the “Unit/Zero Button” (#4, page 5) setting the meter indication to zero.
- The zero point can drift due to environment temperatures, battery power, as well as various other reasons. It is recommended that the zero be checked frequently using the above procedure.

## Additional Functions

### **Hold Function**

Pressing the “Hold Button” (#2, above) will freeze the current value with a “HOLD” symbol on the display. Press again to release the hold function.

*continued ...*


## **Data Record Function**

1. The Data Record function records & displays the maximum and minimum reading values. Start the Data Record function by pressing the “Max./Min. Button” (#3, page 4) once. There will be a “REC” symbol on the display.
2. With the REC symbol on the display:
  - (a) Press the “ Max./Min. Button “ (#3, page 4) once and the “Max” symbol along with the maximum value will appear on the display.
  - (b) Press the “Max./Min. Button” again, the “Min” symbol along with the minimum value will appear on the display.
  - (c) To exit the memory record function, press the “Max./Min. Button” continuously for at least 2 seconds. The display will revert to the current reading.
  - (d) To clear the Max./Min. value recorded by pressing the “Hold Button” (#2, page 4) once. The previously recorded Max./Min. value will be lost and then revert to the REC. function continuing to record.

## **Auto Power Off**

In order to prolong the battery life, the instrument has “Auto Power Off” function. The meter will switch off automatically if no buttons are pressed for around 10 minutes.

## **Battery Replacement**

1. When the left corner of the LCD display shows the low battery symbol “”, this indicates that replacement of the battery is then needed. *However specification measurements could still be taken for another few hours before the meter becomes inaccurate.*
2. Open the Battery Cover (#8, page 4) at the back of the meter and remove the battery.
3. Replace with a 9V battery (alkaline or heavy-duty type) and reinstall the cover.

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