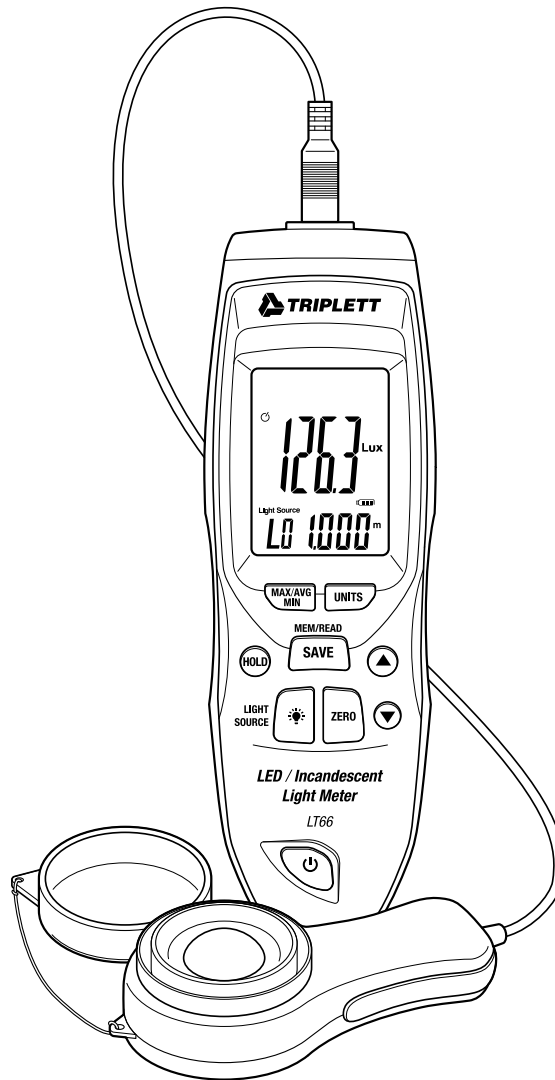


**LT66**

**LED/Incandescent Light Meter**



## Introduction

Thank you for choosing the **Triplett LT66 LED/Incandescent Light Meter**. This instrument is designed to accurately measure illumination levels from a wide range of visible light sources, including LED, fluorescent, metal halide, high-pressure sodium, and incandescent lighting. Engineered with precise spectral response and cosine correction, this meter provides reliable Lux and foot-candle readings for applications such as workplace lighting assessment, facility inspection, photography, architectural lighting, and energy-efficiency evaluation. With features including data hold, MAX/MIN/AVG tracking, auto-ranging, selectable light-source correction factors, and memory storage, this meter ensures accurate, convenient, and professional-grade illumination measurement in a compact and easy-to-use format.

### What's in the box:

- (1) LT66 Light Meter and Probe Sensor
- (1) User Manual
- (1) 9V Battery

### Stay updated:

For the most recent version of the user manual, always visit the official Triplett website: [www.triplett.com](http://www.triplett.com) and search for **LT66**.

## Features

- Overload Indication: LCD screen will show “OL” on the upper left-hand corner.
- Low battery indication
- Sampling Rate: 2.5 times per second for digital display
- Spectral response close to CIE luminous spectral efficiency
- Cosine Angular corrected
- According to JIS C1609: 1993 and CNS 5519 general A class Specifications.
- Measuring lights source: LED white light and all visible light
- Measuring intensities of illumination in Lux or footcandles
- Many applications include Warehouses, Factories, Office buildings, Restaurants, Schools, Library, Hospitals, Parking garages, Museums, Art galleries, Stadiums, Building security
- Data Hold, Maximum/Average/Minimum Hold and Zero adjustment
- Auto power off and disable function

## Safety Precautions

Using this instrument under the following conditions may lead to inaccurate reading or false alarms:

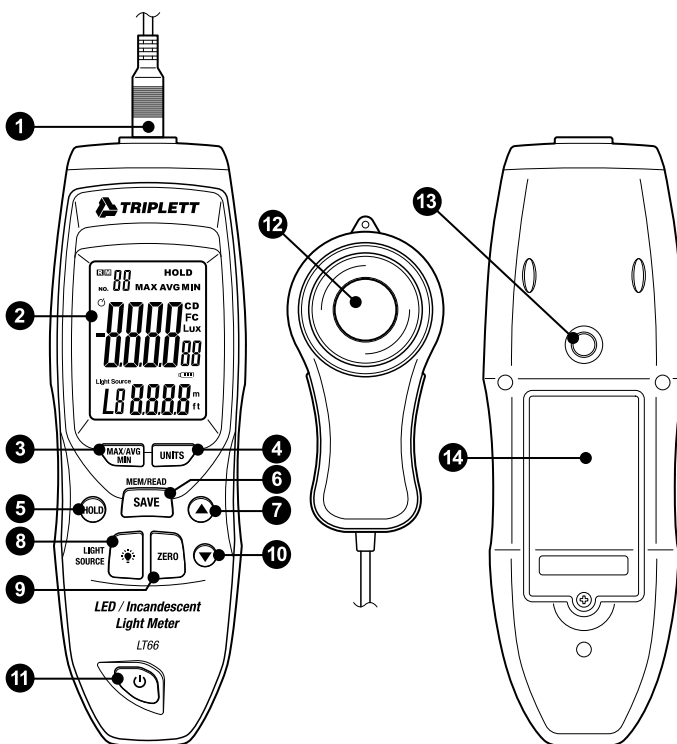
- Do not operate the meter under the environment with explosive gas (material), combustible gas (material) steam or filled with dust.

- To avoid reading incorrect data, please replace the battery immediately when the low battery icon symbol appears on the LCD.
- To avoid the damage caused by contamination or static electricity, do not touch the circuit board before you take any adequate action.
- Operating Environment: Indoors use, this instrument has been designed for being used in an environment of pollution degree 2.
- Operation Altitude: Up to 2000m.
- Operating Temperature & Humidity: 5 to 40°C; 0 to 70%RH.
- Storage Temperature & Humidity: -10 to 60°C; 0 to 70%RH.
- EMC: EN61326-1(2006); IEC61000-4-2(2006); IEC61000-4-3(2006) +(2007)

## Meter Descriptions

### Product Description

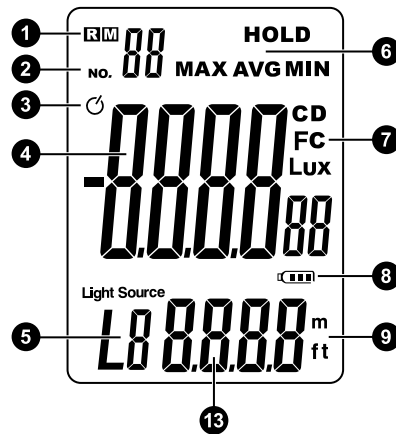
1. Light Sensor Probe Input
2. LCD Display
3. MAX/AVG/MIN Button \*
4. Units Button
5. Data Hold Button
6. Save/MEM/READ Button \*
7. Up Button
8. Backlight /Light Source Select (L.S.) Button \*
9. Real Time Auto Zero Button
10. Down Button
11. Power Button and Disable APO
12. Photo Detector
13. Tripod Mount
14. Battery Cover



*\*You may have a meter version with button captions slightly different however the functionality is the same.*

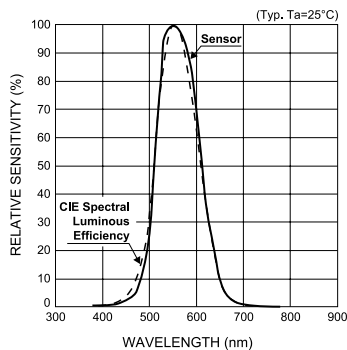
## LCD Description

1. R (Read), M (Memory)
2. Read/Memory data order number
3. Auto power off indicator
4. Light measuring value
5. Light source setting order number
6. Data Hold, MAX, AVG, MIN indicator
7. CD (Candela), Lux, FC (Foot Candles)
8. Battery status indicator
9. Meter (m) and foot (ft) distance unit indicator
10. Distance setting

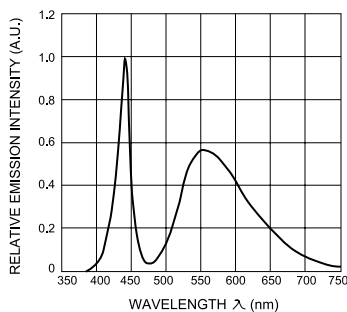


## Relative Spectral (Sensitivity)

- The deviation from the comparative standards for luminosity is determined by JIS standard C 1609-1993.
- Peak sensitivity wavelength: 550nm



## Corrected LED day white light Spectrum



## Operation

1. Press the **Power** Button to turn power on or off.
2. Remove sensor cap and place the sensor perpendicular to the light.
3. Select Lux or FC.
4. If you want to keep the reading value on the LCD screen permanently after testing, press the **Data Hold** Button.
5. When done testing, replace the sensor cover to protect the filter and sensor.

## Data Hold

Freezes the reading present on the LCD screen at the moment the **Data Hold** Button is pressed.

## Zero

- Press the **Real Time Auto Zero** Button for zero adjustment if any digits appear on the LCD screen.
- When the light sensor cap is not attached “**CAP**” will be shown on the screen, make sure that it is attached to the light sensor.

## MAX/AVG/MIN

Press the **MAX/AVG/MIN** Button choice MAX; Again, Press the **MAX/AVG/MIN** Button choice AVG; Again, Press the **MAX/AVG/MIN** Button choice MIN.

## Lux/FC/cd

Illuminance Lux or Foot candle and luminous intensity measuring unit button.

## Light Source

- Light source selection 0~9 features, each light source can set correction parameters, default as 1.000.
- Calibration parameters can be set to 0.001 to 1.999, when the pressure the **Light Source Select** Button for more than 1 second, the digits of 1.000 on the lower right-hand corner of the screen will be flashing, pressure the **Up** or **Down** Button, you can change the calibration parameters to 1.002, the display changes immediately, set  $200.0 \times 1.008 = 201.6$ .
- Press the **Light Source Select** Button for less than 1 second, LCD Light source below the LN flashing, pressure the **Up** or **Down** Button changes from L0 to L9.
- Setup complete press the **Light Source Select** Button for more than 1 second.

## Light Source factor

*L0: Standard light source A: 1.00.*

*L1: LED white day light: 0.99.*

*L2: LED RED light: 0.516.*

*L3: LED AMBER(YELLOW) light: 0.815.*

*L4: LED GREEN light: 1.216.*

*L5: LED BLUE light: 1.475.*

*L6: LED PURPLE light: 1.148.*

*L7-L9: Default Standard light source A: 1.00. L7~L9 (customizable).*

## Auto-Power Off

Power off automatically after approx.3 to 5 minutes without using the meter.

## Disable Auto Power Off

When the power is on, press the **Power** Button for more than 1 second, to cancel or recover automatically shutdown.

Automatic shutdown feature is enabled if “” shows on the screen.

## MEM (Memory)

Press the **MEM/READ** Button for one second to store the Lux or FC data, the LCD screen will display M and NO. 01~ NO.99.

## READ (Read Memory)

Press the **MEM/READ** Button for more than one second to display the store values, the LCD will display R and MEM and NO.01~ NO.99, press the **Up** or **Down** Button to review all the stored values, for example, NO.1 to NO.2 until NO.99.

Press the **MEM/READ** Button for more than one second to disable this feature.

## Clear (Clear Memory)

When power is off, press the **MEM/READ** and **Power** Buttons together, then the screen will display “**CLR**” which means the memorized data is erased

## Luminous Intensity Measurement

- 1.Press the **Power** Button to turn power on or off.
- 2.Remove sensor cap and place the sensor perpendicular to the light.

3. Press the **Lux/FC/cd** Button for more than one second.

4. Press the **Up** or **Down** Button to select ft (feet) or m (meter).

5. Press the **Lux/FC/cd** Button for less than one second.

6. Press the **Up** or **Down** Button to set the distance between the light center of lamp and measurement base level.

7. Press the **Lux/FC/cd** Button for less than one second.

8. Read the display.

9. Press the **Lux/FC/cd** Button for more than one second to disable the feature.

- The luminous intensity is calculated using the following formula: Luminous intensity (cd) = illumination (Lux) x (Distance) m<sup>2</sup>

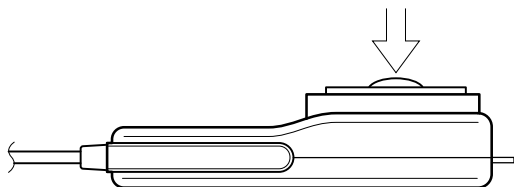
- The preset maximum distance is 0.01~30.47m or 0.01~99.99ft.

- If a single light source is used and is regarded as a single-point light source, the luminous intensity of the light

source can be calculated and displayed, by setting the distance from the light source to the measuring point.

### Attention

The testing of the testing of source of light is located at the right top end (0 degree) of the light **sensor ball plane**



When the meter is not in use. Please keep the cap of the light sensor in its place to avoid the photo diode from wearing out.

- When it is not in use for a long time, please remove the batteries.

- Avoid storage in high temperature and humidity areas

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## Recommended Levels of Illumination

*Suitable levels of illuminance (According to the JIS standard Z 9110-1979)*

| <b>Offices</b>   |                                                                                               |
|------------------|-----------------------------------------------------------------------------------------------|
| Illuminance      | Place                                                                                         |
| 1500 to          | Offices - design, drawing                                                                     |
| 750 to           | Offices - conference rooms.                                                                   |
| 300 to           | Workrooms, corridors, stairways.                                                              |
| 75 to            | Indoor emergency                                                                              |
| <b>Factories</b> |                                                                                               |
| Illuminance      | Place                                                                                         |
| 3000 to          | Where such work as assembling, inspecting testing, selecting, extremely precision Visual work |
| 1500 to          | Assembling, inspecting, testing, selecting,                                                   |
| 750 to           | Assembling, inspecting, testing, selecting and visual                                         |
| 300 to           | Wrapping and                                                                                  |
| 75 to            | Indoor emergency                                                                              |
| <b>Schools</b>   |                                                                                               |
| Illuminance      | Place                                                                                         |
| 1500 to          | Precision drawing or drafting, precision                                                      |
| 750 to           | Classrooms, library reading rooms, Staff                                                      |
| 300 to           | Lecture halls, assembly room corridors, locker rooms,                                         |
| 75 to            | Warehouses and emergency                                                                      |
| 10 to            | School                                                                                        |

## Battery Replacement

If the Low Battery Icon appears then replace the battery immediately.

1. Remove the battery cover. (1) Small Phillips head screw.
2. Replace the battery.
3. Install the battery cover.

**Note: if the product is not going to be used for prolonged periods it is best practice to remove the battery.**

## Specifications

|                                                    |                                                                                                  |      |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------|------|
| <b>Display</b>                                     | 4000 count, maximum display 3999                                                                 |      |
| <b>Sensor</b>                                      | Silicon photodiode and filter                                                                    |      |
| <b>Measuring Range</b>                             | 40, 400, 4000, 40000, 400000 Lux                                                                 |      |
|                                                    | 40, 400, 4000, 40000 Footcandles                                                                 |      |
| <b>Accuracy</b>                                    | ±3% (Calibrated to standard Incandescent lamp 2856°K and Corrected LED day while light Spectrum) |      |
|                                                    | ±6% other visible light source                                                                   |      |
| <b>Angle deviation from cosine characteristics</b> | 30°                                                                                              | ±2%  |
|                                                    | 60°                                                                                              | ±6%  |
|                                                    | 80°                                                                                              | ±25% |
| <b>Power Supply</b>                                | 9V battery                                                                                       |      |
| <b>Dimensions</b>                                  | 7.3" × 2.6" × 1.8" (185 x 65 x 45mm)                                                             |      |
| <b>Weight</b>                                      | 0.5lb (248g)                                                                                     |      |
|                                                    |                                                                                                  |      |
| <b>Length of wiring for light sensor</b>           | 4ft 11" (1.5m)                                                                                   |      |

## Warranty Statement

Triplett Test Equipment offers a two-year warranty to the original purchaser of its products. We guarantee that our products will be free from defects in workmanship and materials for two (2) years from the purchase date.

### This warranty does not cover:

- Products purchased from unauthorized distributors.
- Items that have been repaired or altered by unauthorized individuals.
- Damage from misuse, abuse, misapplication, negligence, or accidents.
- Products with altered, defaced, or removed serial numbers.
- Accessories, including batteries.

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