

*0 to 20,000 Lux, 0 to 2,000 Ft-cd, + Type K/J Temp.  
Auto range, economical type*

# LIGHT METER

Model : LX-110E

*ISO-9001, CE, IEC1010*



**LUTRON ELECTRONIC**

***The Art of Measurement***

+ type K/J TEMP.

# LIGHT METER

Model : LX-110E

## FEATURES

* 0 to 20,000 LUX, 0 to 1,860 Feet-candle ( Ft-cd ), professional light meter with auto range.
* Auto range.
* Resolution : 1 LUX, 0.1 Ft-cd.
* Light sensor used the exclusive photo diode & color correction filter, spectrum meet C.I.E. photopic.
* Light sensor cosine correction factor meet standard.
* Separate Light Sensor allows user to measure the light at an optimum position.
* Light meter can default the display unit to LUX or Ft-cd with default.
* 2 in 1, Light meter + Thermometer.
* Thermometer can accept type K or type J Temp. probe with default.
* Thermometer can default the display unit to °C or °F with default.
* Meter can default auto power off or manual power off.
* 0.1 degree resolution for temperature measurement.
* Microcomputer circuit provides intelligent function and high accuracy.
* Records Maximum and Minimum readings with recall.
* Data hold function for freezing the desired value.
* Build in the input socket for DC 9V power adapter.
* Few panel buttons, easy operation.
* Built-in low battery indicator.

## GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 44 mm x 29 mm dual function LCD display.
Function	* Light meter * Thermometer (Type K/J).
Light Meter	<i>Range :</i> 0 to 20,000 LUX 0 to 1,860 Feet-candle ( Ft-cd ), * <i>Auto range.</i> <i>Unit :</i> LUX, Feet-candle ( Ft-cd ). <i>Sensor :</i> The exclusive photo diode & color correction filter, spectrum meet C.I.E. Cosine correction factor meet standard. <i>Zero Adjustment :</i> External adjustment by pushing button.
Thermometer	<i>Thermocouple :</i> Type K, Type J. <i>Unit :</i> °C, °F <i>Resolution :</i> 0.1 degree. <i>Temperature Compensation :</i> Automatic temp. compensation for the cold junction both type K/J thermometer <i>Linear Compensation :</i> Linear Compensation for the full range.
Thermometer Input Socket	Standard 2 pin thermocouple socket.
Over Indication	Show " - - - - - ".
Data Hold	Freeze the display reading.
Memory Recall	Maximum & Minimum value.
Sampling Time of display	Approx. 1 second.
Power off	Auto shut off to save battery life or manual off by push button.
Data Output	RS 232 PC serial interface.
Operating Temperature	0 to 50 °C.

Operating Humidity	Less than 80% R.H.
Power Supply	006P DC 9V battery ( Alkaline or Heavy duty type ).
Power Current	<i>Light meter :</i> Approx. DC 10 mA <i>Thermometer :</i> Approx. DC 6 mA
Weight	278 g/0.61 LB. * Include light probe and battery.
Dimension	Meter 135 x 60 x 33 mm. ( 5.3 x 2.4 x 1.3 inch ). Light probe 82 x 55 x 7 mm ( 3.2 x 2.2 x 0.3 inch ).
Accessories Included	Instruction manual.....1 PC Light probe.....1 PC
Optional Accessories	* Type K thermocouple probe. TP-01, TP-02A, TP-03, TP-04, TP-05. * Carrying case, CA-52A.

## ELECTRICAL SPECIFICATIONS (23± 5 °C)

### Light meter

<i>Measuring Range</i>	LUX	0 to 20,000 LUX.
	Ft-cd	0 to 1,860 Ft-cd
<i>Resolution</i>	LUX	1 LUX
	Ft-cd	0.1 Ft-cd
<i>Accuracy</i>	± ( 5% rdg + 8 dgt )	
<i>Note:</i> Ft-cd : Feet candle		

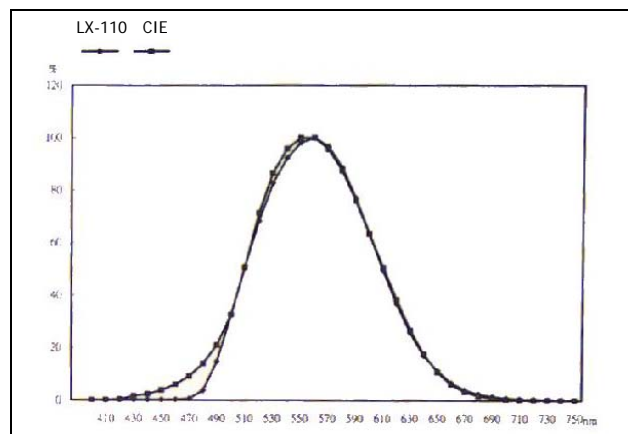
### Type K/J Thermometer

<i>Sensor Type</i>	<i>Resolution</i>	<i>Range</i>	<i>Accuracy</i>
Type K	0.1 °C	-50.0 to 1300.0 °C	± ( 0.4 % + 0.8 °C )
		-50.1 to -199.9 °C	± ( 0.4 % + 1 °C )
	0.1 °F	-58.0 to 2372.0 °F	± ( 0.4 % + 1.5 °F )
		-58.1 to -327.8 °F	± ( 0.4 % + 1.8 °F )
Type J	0.1 °C	-100.0 to 1100.0 °C	± ( 0.4 % + 0.8 °C )
		-50.1 to -199.9 °C	± ( 0.4 % + 1 °C )
	0.1 °F	-58.0 to 2012.0 °F	± ( 0.4 % + 1.5 °F )
		-58.1 to -327.8 °F	± ( 0.4 % + 1.8 °F )

\* Accuracy value is specified for the meter only.  
\* Temp. probe ( Type K, TP-01 TP-02A, TP-03, TP-04 ) is the optional accessories, refer page 12.

*Note :* Above specification tests under the environment RF Field Strength less than 3 V/M & frequency less than 30 MHz only.

### Spectrum for Light Sensor



\* Appearance and specifications listed in this brochure are subject to change without notice.