

## FEATURES

- Dual Display, 4-digit LCD reading.
- Spectral Sensitivity close to CIE photopic Curve.
- Measuring Levels Ranging 0.001 to 1999k cd/m<sup>2</sup>, 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 colour-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.

## RS PRO Light Meter-9.999 cd/m<sup>2</sup> to 580 kfL Light Meter

RS Stock No.: 146-4653



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

### Product Description

## RS PRO Light Meter

From the trusted RS PRO brand, this digital light meter is a high-quality solution for light measuring applications in all manner of environments. The excellent quality light sensor attaches to the digital reader by a long wire allowing you to be flexible in where you take your readings from. The digital reader has a variety of useful functions, and features a 4 digit LCD display screen meaning that measurements can be taken quickly and easily.

### General Specifications

Display Type	4-Digit LCD
Display Digit Height	16mm
Data Logger Capacity	microSD CARD 4GB
Data Memory Capacity	200 sets. (Direct reading from LCD display)
Features	Data Hold Function
	Auto Ranging Plus Manual Ranging
	Auto Zero Adjustment
	Data Memory And Read Function
	Max/Min/AVG Function
Temperature Characteristics	±0.1%/°C
Interface	USB
Applications	Lighting of streets areas/ Lighting in museums/ Monitors
Calibration Availability	Yes

### Light Measurement

Measuring Range	9.999, 99.99, 999.9, 9.999k, 99.99k, 999.9k, 1999k cd/m <sup>2</sup> 9.999, 99.99, 999.9, 9.999k, 99.99k, 580.0k fL Auto ranging (7 step) (1 fL = 3.426 cd/m <sup>2</sup> )
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)
Resolution	0.001 cd/m <sup>2</sup> , 0.001 fL
Measurement Rate	Approximately 5 time/sec
Measuring Angle	2°
Spectral Response	CIE Photopic

### Electrical Specifications

Power Source	Battery
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Battery Included	Yes
Battery Type	6 pcs 1.5V AAA size Battery
Battery life	50 hours

## Mechanical Specifications

Dimensions	150x 72x 35mm
Width	72mm
Depth	150mm
Height	35mm
Weight	210 (Photosensor) g, 235 (Metre) g
Casing Material	Plastic
Photosensor Lead Length	90cm (approx.)
Photosensor Dimensions	40φ×158(L)mm

## Operation Environment Specifications

Operating Temperature Range	0-+50°C
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## Approvals

Declarations	RoHS Certificate of Compliance
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## Accessories Includes

Item Name	Qty
Carrying case	1
Instruction manual	1
Battery	1
CD software	1
Micro-USB cable	1

## Similar Products

Stock No.	RS#1238776	RS# 1065311	RS# 1065312	RS# 1240938
Model Number		IM720	IM203	ILM201L
Sensor Type		Photodiode	Photodiode	Photodiode
Display Type	LDC	LCD	LCD	LCD
Display digit height	13mm			
Features		Measures intensities of illumination displays in lux or foot-candles	Measuring the visible light from fluorescent, metal halide, high-pressure sodium or	Spectral response near CIE luminous spectral efficiency curve.

			incandescent sources	
<b>Measuring Range</b>		400, 4000, 40000, 400000 Lux 40, 400, 4000, 40000 Foot-candles (1 Fc = 10.76 Lux).	20, 200, 2000, 20000, 200000 Lux 20, 200, 2000, 20000 Foot-candles	200, 2000, 20000, 200000 Lux 20, 200, 2000, 20000 Foot-candles
<b>Accuracy</b>		±3% ±3Lux (Calibrated to standard incandescent lamp 2856°K). ±3% (Calibrated to standard incandescent lamp 2856°K). 8% other visible light source	±3% (Calibrated to standard incandescent lamp 2856°K) ±6% (other visible light source)	±3% (Calibrated to standard incandescent lamp 2856° K) ±8% (other visible light source)
<b>Resolution</b>		3 lx		
<b>Measurement Rate</b>		2.5 times per second	2.5 times per second.	2.5 times per second
<b>Spectral Response</b>		CIE	CIE	CIE
<b>Temperature Characteristics</b>	0 to 50°C			
<b>Interface</b>	USB, RS 232		USB	
<b>Dimensions</b>	180*72*32 mm	133 x 48 x 23mm	172× 56× 38 mm	55 x 38 x 130mm

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## 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<sup>2</sup> 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