

# cal-COLOR II Calibrated Precision Colormeter

## The next generation in light and color measurement instrumentation

The ergonomically designed **cal-COLOR II** provides accurate and sensitive measurements of illuminance, correlated color temperature (CCT) and chromaticity coordinates (x,y) of a wide variety of light sources and display areas - all in a compact, portable, easy-to-use meter.

The **cal-COLOR II** uses special filtered Si-PIN photodiodes to achieve true tristimulus detection over a wide range of light dynamics and color measurement ranges. Special attention to the blue spectral range achieves improved accuracy measurements of high color temperature lights such as solid state lighting (SSL) and high brightness LED's.

From illuminance values for indoor and outdoor lighting, to readings of color temperature for projectors and displays, to determining the performance of LED's, the **cal-COLOR II** provides the answers.

### Are you ...

- A Light manufacturer
- A Lighting Specifier
- An Architect
- Measuring LED's
- An Interior Designer
- A Facility Manager
- A Contractor or Developer
- Manufacturing Color displays

### Do you need ...

- A cost-effective hand-held colormeter
- Enhanced Accuracy
- To Measure High Color Temperature Sources
- Enhanced Sensitivity

... then you need the new **cal-COLOR II**

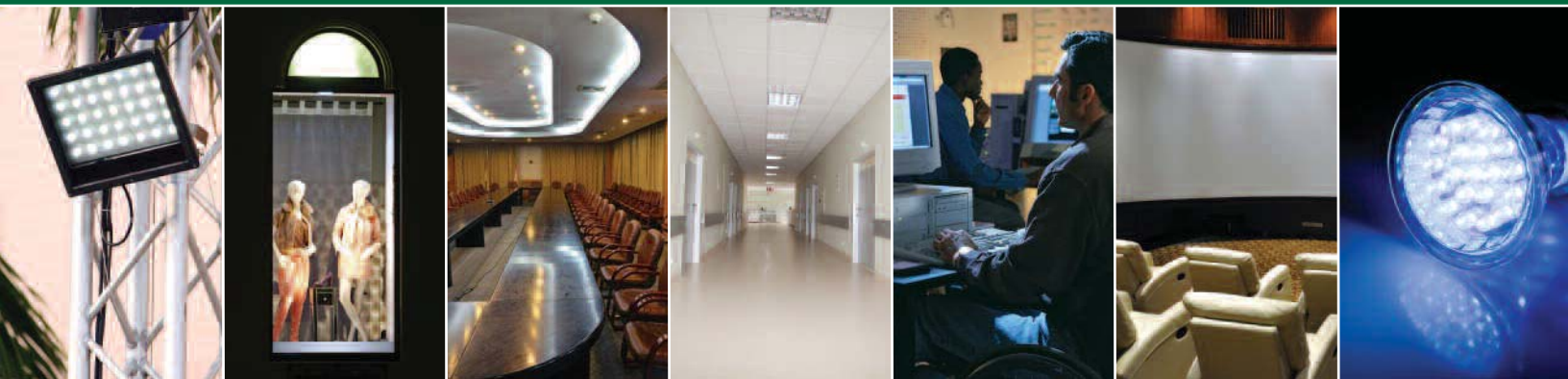


The  
**Cooke**  
Corporation

**CALRIGHT**  
**INSTRUMENTS**

*The Right Source For Your Test & Measurement Needs*

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# cal-COLOR II

## Calibrated Precision Colormeter



Every cal-COLOR II is individually calibrated and labeled with all the pertinent information.

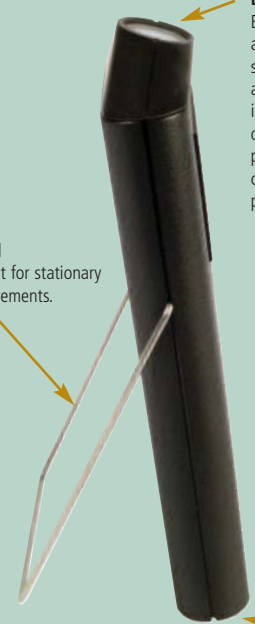


**Display**  
Large, 46 x 30 mm LCD with units of measurement and low battery indicator offers comfortable reading during measurement

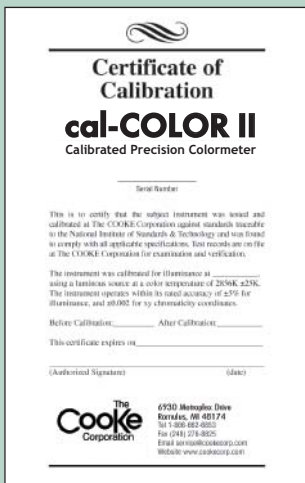
**"ON" and "Hold" Button**  
Click to display reading  
Hold to "freeze" display  
Auto power off. Depress "ON" button twice to select units (fc or lux)

**Light Sensor**  
Ergonomically designed angled sensor allows simultaneous measurement and readout without interference from the operator. The four silicon photodiode sensors with cosine correction assures precise measurements.

**Integral Stand**  
Easily swings out for stationary tabletop measurements.



A calibration seal is affixed to every cal-COLOR II after calibration to assure authenticity and prevent unauthorized alterations.



This individual calibration certificate is supplied with each cal-COLOR II guaranteeing traceability to the National Institute of Standards and Technology, Gaithersburg, MD USA

## Specifications

### Measuring Range and Accuracies

#### Illuminance

Autoranges: 0.1 to 100,000 lux or 10,000 fc  
Overall Accuracy:  $\pm 5\%$  of displayed value

#### Color Temperature

Autoranges 1000 to 10,000K

#### Chromaticity Coordinates

x, y: 0 to 0.800  $\pm 0.010$

### Units

User selectable units fc or lux by depressing the ON button twice

### Auto-power Off

After approximately 1 minute

### Calibration

Calibrations and re-calibrations are performed by The COOKE Corporation with traceability to the National Institute of Standards and Technology, Gaithersburg, MD USA

### Light Sensor

Si-PIN photodiodes with integrated tristimulus filters (X, Y, Z) with Cosine Correction.  
Diameter 20 mm, angled 70° from display face.

### Display

Easy to read 46 x 30 mm LCD displays measuring units and battery diagnostics

### Battery (included)

9V Alkaline  
100 hours life in ON position  
4 years life in OFF position

### Temperature Range

Operation: 32° to 130°F ( 0° to 55°C)  
Storage: -4° to 160°F (-20° to 70°C)

### Carrying Case

Soft protective cover for safe storage and transport

### Dimensions

9.5 x 3.0 x 1.2" (241 x 76 x 30 mm)

### Weight

9.3 oz (265 g)

## Ordering Information

cal-COLOR II, Calibrated Precision Colormeter complete with calibration certificate, integral stand, instructions, carrying case and battery (included). CE certified, FOB Romulus, MI, USA.