

cal-LIGHT 400, 400F and 400L Calibrated Precision Lightmeters

Description

- **cal-LIGHT, Model 400** - Ergonomically designed angled sensor allows simultaneous measurement and readout without interference from the operator. The silicon photodiode with photopic and cosine correction assures precise measurements. [Operating Instructions](#)
- **cal-LIGHT, Model 400F** - The forward position of the light sensor which was designed specifically for use in museums and art galleries, allows the user to accurately measure the direct light falling down onto a painting or any other works of art.
- **cal-LIGHT, Model 400L** - Standard lightmeter with illuminated LCD for applications requiring measurements under 3 lux
- **Display** - Large, 10mm (3/8") 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.
- **Sliding Coverplate** - Provides access to 9V battery and to the switch for selecting the measuring units (fc or lux).
- **Calibration seal** is affixed to every **cal-LIGHT** lightmeter after calibration to assure authenticity and prevent unauthorized alterations.

Features

- NIST traceable calibration certificate
- Silicon photodiode sensor
- Autorange
- Auto power off
- User selectable units
- Ergonomic design
- Cosine correction
- Photopic correction
- Carrying case
- Built-in, hands free stand (**cal-LIGHT 400 and 400L** only)

For Museums and
Art Galleries



Model 400F

NSN #6220-01-466-7572



NSN #6220-01-466-7567

Specifications

Measuring Range

Autoranges 0.1 fc or lux to 40,000 fc or lux

Units

Choose fc or lux with user selectable switch located in battery compartment

Accuracy

- Intensity linearity: 2%
- Photopic: Better than 1.0% of CIE curve
- Cosine error: Less than $\pm 1.0\%$ up to an incident angle of $\pm 85^\circ$
- Overall accuracy $\pm 5\%$ of displayed value

Calibration

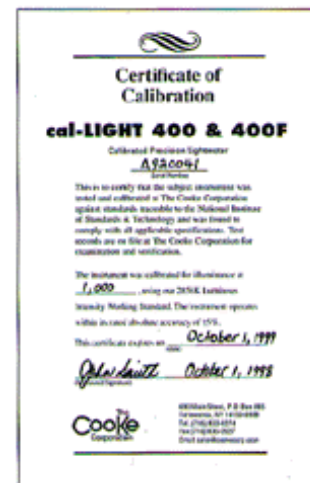
Calibrations and recalibrations are performed by COOKE and are traceable to NIST Standards. The photopic response of the calibrated sensor matches the CIE standard observer curve response to within 1% of the reading when using a standard tungsten source at 2856°K

Light Sensor

Silicon photodiode with photopic filter and cosine corrector
Diameter 10 mm, angled 70° from display face
(Model cal-LIGHT 400)

Temperature Ranges

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



Users

- Architects
- Art Gallery and Museum Curators
- Engineers
- Interior Designers
- Health/Safety Professionals
- Lighting Designers
- Maintenance Personnel
- Facility Managers
- Landscape Architects
- Law Enforcement Agencies
- Developers
- Contractors
- All Lighting Specifiers

Applications

Accurately measures ambient illumination in:

- Offices
- Shopping Plazas
- Parking Lots
- Hospitals
- Stairways
- Highways
- Museums and Art Galleries
- Arenas
- Warehouses
- Stadiums
- Supermarkets

Ordering Information

cal-LIGHT 400, cal-LIGHT 400F and cal-LIGHT 400L Calibrated Precision Lightmeters come complete with instructions, battery, carrying case, and calibration certificate.
FOB Romulus, MI



Now available, the cal-LIGHT 400L with illuminated LCD display suitable for measurements in lux under 3 lux.
cal-LIGHT 400L

Calibration

Calibrations and recalibrations are performed by COOKE and are traceable to NIST Standards. The spectral sensitivity of the calibrated detector matches the CIE standard observer curve for a standard tungsten source at 2856K.

Limited Warranty

All Models described in this brochure are warranted for twelve (12) months from date of purchase against electrical and mechanical defects in material and workmanship. Compliance with calibration is warranted for one (1) year. The warranty does not apply to damage resulting from transportation, accidents, alteration, misuse, negligent handling, or operation with incorrect power supply. Any unit found to be defective within the warranty period will be repaired or replaced free of charge. Batteries are not covered by any part of this warranty. Liability is limited to repair or replacement of any unit found to be defective and there shall be no liability for any loss or damage (direct, indirect or consequential) arising from the use or loss of this unit.

THE WARRANTY SET FORTH HEREIN IS EXCLUSIVE AND IS IN LIEU OF ANY AND ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

Price and specifications subject to change without notice.



The Right Source For Your Test & Measurement Needs

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