



# MODEL 9.2

Bilirubin Light Meter • 0-1999  $\mu\text{W}/\text{cm}^2$

*Handheld Digital Bilirubin Radiometer  
with Integral Sensor*



## APPLICATIONS

- Monitoring Bilirubin Light Intensity and Aging
- Monitoring Blue Light / LED Intensity and Aging
- Monitoring Aquarium Lamp Intensity and Aging
- Monitoring Acne Lamp Intensity and Aging
- Measuring Blue Light from Household Appliances
- Measuring Photosynthetic Action Spectrum Blue Band
- Testing Eyewear Actinic Blocking Capabilities



LED / LIGHTING



PUBLIC HEALTH



METROLOGY

## FEATURES AND BENEFITS

- Compact, Handheld, and Durable
- Simple Single-Button Operation
- NIST Traceable Accuracy
- LCD Display
- Made In USA

## SENSOR

GaP Photodiode packaged in hermetically sealed UV glass window cap. Filter used to narrow response as shown on Spectral Response Graph.

## METER OPERATION

To operate your Solarmeter, aim the sensor window located on the top panel of the meter directly at a source. Press and hold the push-button switch on the face of the meter. For best results take note of the distance the reading was taken from the source in order to ensure repeatable results.

Battery operation voltage is viable from 9V down to 6.5V. Below 6.5V, the numbers on the LCD display will begin to dim, indicating the need for battery replacement. Under typical service load, a standard 9V battery will last approximately 2 years.

## PROPER USAGE OF SOLARMETER® BILIRUBIN LIGHT RADIOMETER

- Wear actinic eye protection when checking intense light sources.
- Allow lights to warm-up prior to taking readings (at least 5 min).
- For individual light intensity, hold meter close to LED or lamp.
- For effective light intensity, hold meter at working distance from the light source.
- When checking aging of lights, keep measuring distance and location constant.
- Lights should be replaced when output drops to about 70% of their original (new) readings.

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ISO 9001  
2015



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## PROPER USAGE (CONTINUED)

- If unsure of what new values were, replace an adjacent light with a new identical one and compare the two.
- Do not subject the meter to extremes in temperature, humidity, shock or dust.
- Use a dry, soft cloth to clean the instrument. Keep the sensor free of oil, dirt, etc.

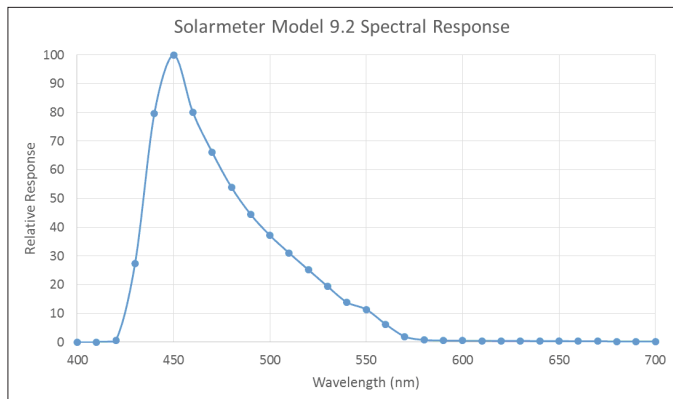


Fig. 1. Model 9.2 Spectral Response

## SPECIFICATIONS

MODEL	9.2
IRRADIATION RANGE	0-1999 $\mu\text{W}/\text{cm}^2$
PEAK RESPONSE	98% at 450 nm
RESPONSE	422-499 nm Blue Light
RESOLUTION	1 $\mu\text{W}/\text{cm}^2$
CONVERSION RATE	3.0 Readings / Sec
DISPLAY	3.5 Digit LCD
DIGIT SIZE	0.4" / 10.2 mm
OPERATIONAL TEMPERATURE	32°F to 100°F / 0°C to 37.8°C
OPERATIONAL HUMIDITY	5% to 90% RH
ACCURACY	±10% Ref. NIST
METER DIMENSIONS	4.2L x 2.4W x 0.9D in / 106.7L x 61W x 22.9D mm
WEIGHT	4.5 oz / 128g Including Battery
POWER SOURCE	9-Volt DC Battery
LENS	UV Glass
DIFFUSER	Teflon
DETECTOR	GaP Photodiode with Filter
AGENCY APPROVAL	CE Mark

REV C | MODEL 9.2 | Jan 2023  
Specifications subject to change without notice.

**SOLARMETER**® by Solar Light Company, LLC is the industry standard for UV and visible light radiometers that measure both indoor and outdoor light sources. Our NIST Traceable meters are used to monitor lamp irradiance and aging for UV sterilization, reptile husbandry, indoor tanning, red/blue light phototherapy, UV curing and UV Index.