ILLUMINATION METER

HIOKI

LUX Hi TESTER
3421

DIGITAL LUX Hi TESTER
3422

# For a Wide Range of Illumination Measuring Applications

## 3421 LUX Hi TESTER

The 3421 LUX Hi TESTER is a photocell lux meter with a selenium cell in the light sensor and a high sensitivity meter.
By having the light sensor linked to the main body of the instrument only by a cord, it is possible to move the sensor to detect light in any given location and at the same time the meter is able to be placed where it can be read easily.

### Visual Sensitivity Correction

Because visual sensitivity correction is provided, there is no need to carry out any special correction according to the type of light source involved.

### Angle Correction

Angle correction makes possible measurement of light from an oblique angle and of illumination from a number of sources at once.

### Two Distinct Units

The light sensor and meter are two distinct units connected only by a wire lead so that it is possible to move the sensor to the spot where readings are to be taken.

### Compact Construction

The tester is compact and provided with a handy carrying case.

## 3422 DIGITAL LUX Hi TESTER

The 3422 DIGITAL LUX Hi TESTER is capable of measuring from low level illuminance up to 2000 lx. A selenium photo cell is used as the light detector, amplified in a high sensitivity amplifier that is stable enough to handle even small amount of current and the reading is shown on an LED display which can be read easily even in a dark place.

### LED Digital Display

The 3422 makes easy work of measuring the low level illuminance provided by guide lamps and arena illumination, etc., and the LED digital display is easily read off by anybody.

### Visual Sensitivity and Angle Correction

*Because visual sensitivity correction is provided by means of a filter, incandescent and fluorescent lamp brightness as well as natural light under various conditions can be measured.
*Angle correction means that light from an oblique angle or light from a number of sources can be measured without fear of error.

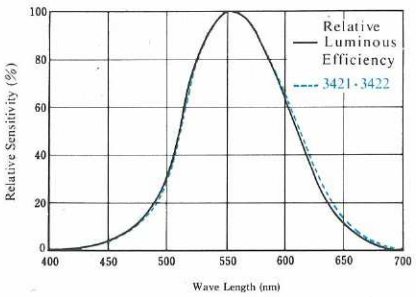
### Recorder Terminal

The output terminal for connection to a recorder is very handy when making a continuous record of readings and to save power it is possible to switch off the digital display.

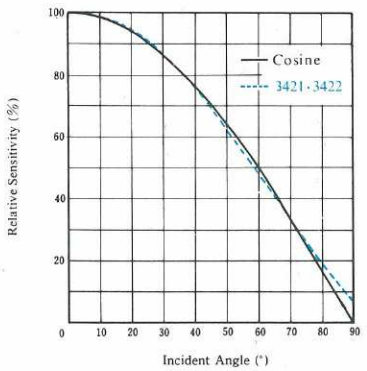
### Lightweight and Easy to Carry

Because of the compactness and lightweight, it can be used slung around the neck.

### Spectral Sensitivity Characteristic




### Oblique Incident Light Characteristic




### Specifications

| | 3421 | | | | 3422 | | | |
|---|---|---|---|---|---|---|---|---|
| Display | Analog (Core magnet taut band meter) | | | | Digital 3½ digits LED 000～ 999... 1 count step 1000～1990... 10 count step | | | |
| Measuring Range | 300/1000/3000 lx | | | | 20/200/2000 lx | | | |
| Resolution in Minimum Range | 5 lx | | | | 0.01 lx | | | |
| Accuracy | ±7% of f.s. | | | | ±3% rdg. ±0.5% f.s. | | | |
| | Calibrated to standard incandescent lamp, 2856° K | | | | | | | |
| Repeatability | ±2% rdg. | | | | | | | |
| Spectral Sensitivity Characteristics | Approximates the SI relative luminous efficiency standard. | | | | | | | |
| Incident Angle Characteristics | 30°... within ±2%; 60°... within ±7%; 80°... within ±25% | | | | | | | |
| Photosensor | Selenium cell in hermetically-sealed housing | | | | | | | |
| Operating Temperature/ Humidity | 0～40°C/<85% RH | | | | | | | |
| Recorder Output | — | | | | DC 200mV f.s. (50Ω) | | | |
| Photosensor Lead Length | 70cm (curl cord) | | | | 1.5m (approx.) | | | |
| Power Source | — | | | | Four size AA; battery current approx. 40mA | | | |
| Overall Dimensions | 110H×170W×60D mm | | | | 165H×168W×48D mm | | | |
| Main Unit Dimensions | — | | | | 146H×90W×32D mm | | | |
| Photosensor Dimensions | 80H×61W×35D mm | | | | | | | |
| Weight | 520g (approx.) | | | | 620g (approx.) | | | |
| Accessories | Carrying case | | | | Carrying case, Sensor cap | | | |
| Standard Packing (Double carton box) | Sets | N.W. | G.W. | $M^3$ | Sets | N.W. | G.W. | $M^3$ |
| | 30 | 18kg | 21kg | 0.13m³ | 25 | 19kg | 22kg | 0.13m³ |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