



GOLDILUX AUTORANGING LIGHT METERS

The autoranging light meters are accurate hand-held instruments with excellent $V(\lambda)$ correction and directional response, suitable for use as general purpose instruments and for many laboratory applications.

The photosensitive element is a long-lasting, stable silicon photodiode with an excellent linearity. Optional attachments and accessories include a wide variety of remote probes, a carrying case and a remote hold cable.

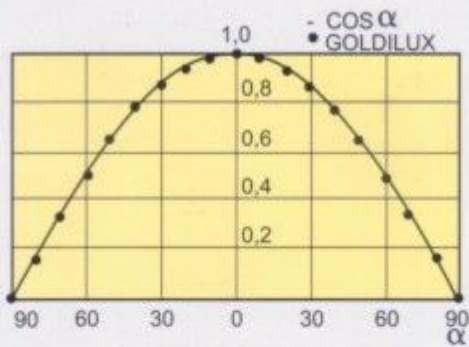
The instrument has been evaluated and endorsed by lighting engineers and consultants.

FEATURES

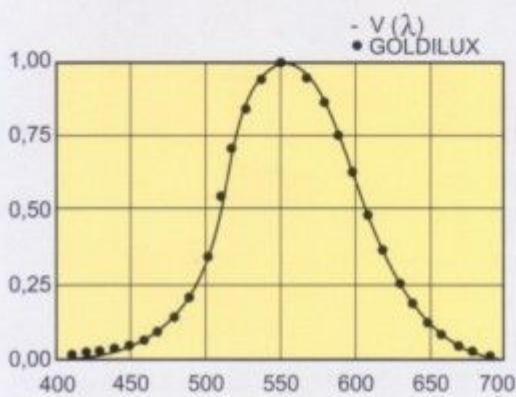
- Measurement of illuminance (lux or footcandles) over a wide range
- Autoranging
- Large LCD display
- Hold function (on unit and via optional cable)
- Plug-in facility for external probes
- Analog output
- Light weight
- Powered by a single disposable 9V battery
- Dose option
- Fully guaranteed for one year

SPECIFICATIONS

Measuring range:	Model dependent (see separate data sheet)
Accuracy:	Better than $\pm 3\%$ for all commonly used light sources
Analog output:	0 - 1.999 V full scale
Readout:	4½ digit LCD display
Temperature range:	0 to 50°C
Power source:	1 type PP3 9 V battery, preferably alkaline
Current consumption:	Typically 2.5 mA
Battery life:	Approximately 180 hours for alkaline battery
Dimensions:	150 x 80 x 35 mm
Mass:	220 g (with battery)



Directional response of light meter compared with ideal cosine response



Spectral responsivity of the light meter compared with the ideal $V(\lambda)$ curve

Accessories: Instruction manual, protective cover for detector

Optional accessories: Remote hold cable, analogue output cable, heavy duty carrying case

Calibration: Instrument is factory pre-set to read within specified accuracy

Parameter	Symbol	Value
V (λ) match	f'_1	<3%
UV response	u	<0,1%
IR response	r	<0,1%
Cosine response	f_2	<1,5%
Linearity error	f_3	<0,1%
Error of display unit	f_4	<0,1%
Temperature coefficient	$\alpha(T_2=5^\circ\text{C})$	<-0,2%/°C
Fatigue	f_5	<0,1%
Modulated radiation	f_7	<0,1%
Polarization	f_8	<0,1%
Range change	f_{11}	<0,1%
Crest factor	c	<2
Lower frequency limit	f_l	<40 Hz
Upper frequency limit	f_u	>50 kHz

Quality parameters, as recommended by the International Commission of Illumination (CIE)*

*(CIE) Publication No 69 (1987) "Methods of characterising illuminance and luminance meters."

Further Information: