GOSSEN

Light Measuring

$$L_V(\beta, \varphi) = \frac{d^2\Phi_V}{\cos(\beta)\, dA \cdot d\Omega}$$
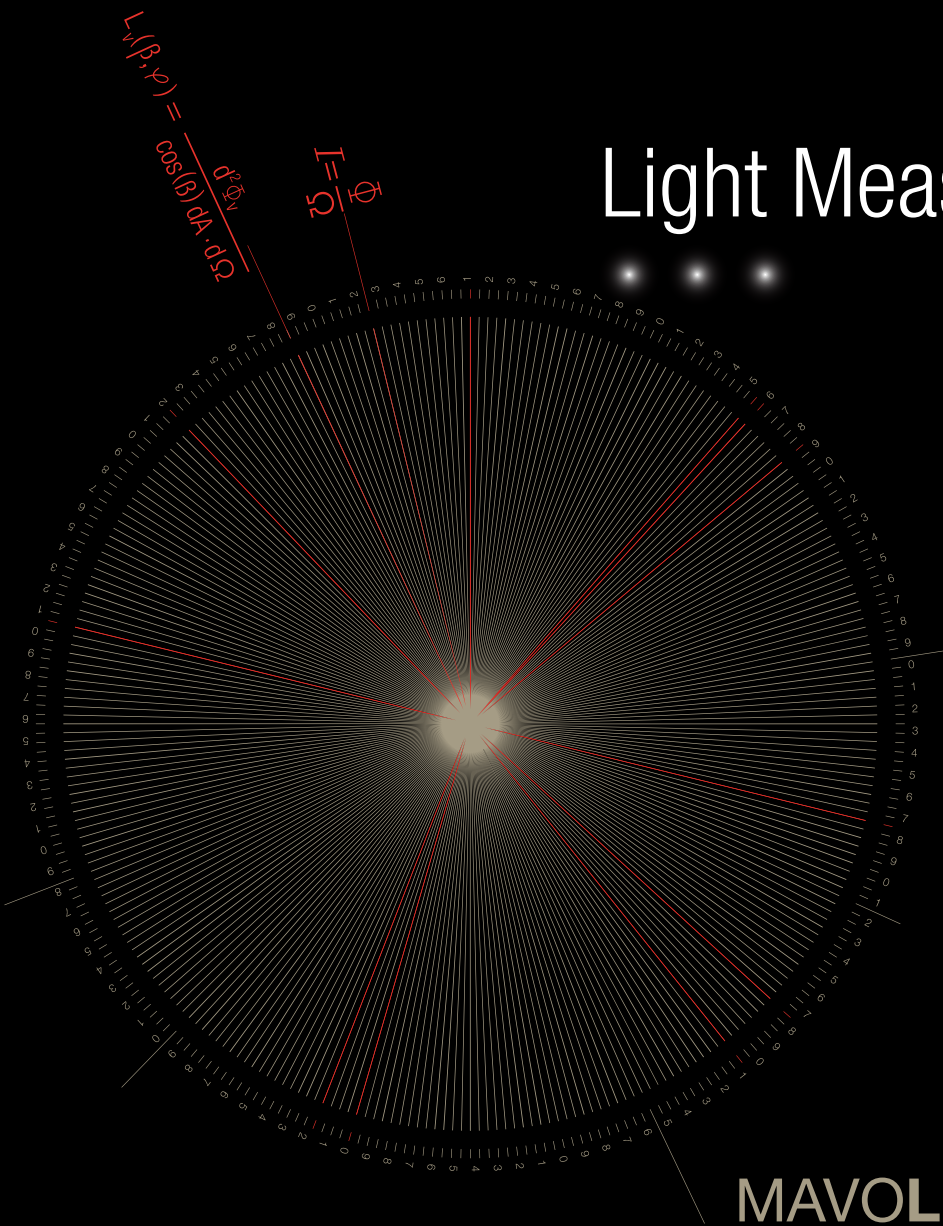
$$I = \frac{\Phi}{\Omega}$$

MAVO**LUX** 5032C BASE

MAVOLUX 5032 C BASE

This precision luxmeter

is classified according class C in accordance with DIN 5032-7, appendix B of IEC 13032-1 and CIE 69. The high-end V(λ) matching and cosine correction guarantees the reliably measure for illuminance of daylight and artificial sources of light. Even in the case of very bright sunlight or illumination from headlights, no accessories are required.

MAVOLUX 5032 C BASE

Due to its class C accuracy, this meter is used primarily as an industrial measuring instrument for planning, installing, inspecting and monitoring lighting systems, as well as for the assurance of compliance with specified lighting conditions.

Its four measuring ranges with automatic or manual range selection cover a broad span from 0.1 to 199,900 lx with an accuracy level of ± 3% ± 1 digit. V(λ) matching deviation, which amounts to f1' < 7.5%, is considerably better than the permissible error limit for class C specified in the standards. At GOSSEN, great emphasis is placed upon reliability by means of calibration. For purposes of substantiation, a factory calibration certificate or a DAkkS calibration certificate can be ordered along. Depending on how the meter is used, we recommend a calibration interval of 12 to 24 months.

Specifications

Maximum reliability –
Classified measurement of illuminance in lx or fc in accordance with class C per DIN 5032-7, appendix B of IEC 13032-1 and CIE 69.

Precise Measured Values –
Accuracy amounts to ± 3% ± 1 digit of the display value.

Broad measuring range –
High initial sensitivity and a resolution of 0.1 lx or 0.01 fc, right on up to large illuminance values of 199,900 lx or 19,990 fc.

Calibration Capability –
As an option, the accredited GOSSEN Light Lab can issue a factory or a DAkkS calibration certificate for measuring equipment monitoring in accordance with DIN EN ISO 9001:2008.

V(λ) matching –
The spectral sensitivity of the silicon photodiode is color corrected and corresponds to the spectral brightness sensitivity of the human eye V(λ).

Cosine correction –
The luminosity of a flat measuring surface is proportional to the cosine of the incident angle of light. This relationship is taken into consideration by the receiver during evaluation.

Non-volatile memory –
100 measured values can be saved and retrieved.

Convenient everyday use –
Simple operation, easy to read display, compact design.
Optionally there is valuable plastic carrying case available.

Model	MAVOLUX 5032 C BASE

	Item number	M502B
Measuring functions	Illuminance	0.1 lx … 199,900 lx / 0.01 fc … 19,990 fc
	Measuring ranges	4
	Measuring range selection	Automatic / manual
	Measuring rate	2 per second
	Measuring sensor	Silicon photodiode with V (λ) filter
	Probe with tripod thread	■
	Measurement cable	1.5 m, firmly connected
	Measured value memory	100 measured values
	Classification	Class C DIN 5032-7 / EN 13032-1, appendix B
	Error limit - V(λ) adapted (f1'), typical	< 7,5 %
	Error limit - overall error, typical	≤ 15 %
	Accuracy	± 3 % of reading ± 1 digit
Operation	Display	3 1/2 digit LCD
	Operating elements	6 keys
Power supply	Battery	1,5V Mignon, Typ AA
	Automatic battery control	■
	Automatic shutdown	4 min. / continuous operation
	Battery service life	Approx. 45 h with alkaline manganese battery
Miscellaneous	Operating temperature	0 °C to 50 °C
	Dimensions	65 mm x 120 mm x 19 mm (meter)
		31 mm x 105 mm x 30 mm (probe)
	Weight	200 g without battery
	Delivery contents	Battery, operating instructions
Optional Accessories	Plastic carrying case	M520G
Certificates	Factory calibration certificate	H997B
	DAkkS calibration certificate	H997D

65 mm

120 mm

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on/off   Auto ↕   lx / fc

Hold   Range   Mem

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