

LED LUX Measurement Kits

LLM-Basic Kit / LLM-Advanced Kit

○ UNIVERSAL AND ACCURATE

Measures both LED and conventional lighting highly accurate and without any adjustments

○ HANDHELD AND RUGGED

All-in-one basic or advanced kit according to your needs

○ FOLLOW WORKERS REGULATIONS

Good light increases productivity

○ YOUR GUARANTEE FOR ACCURACY

Delta OHM has 6 ISO 17025 laboratories and is accredited for Illuminance Meter Calibration

WHEN YOU SEE MORE LIGHT, YOU MEASURE MORE LIGHT!

Measuring LED and conventional lighting under different circumstances? Comparing them both? Surprised that, even when you clearly see that the LED light is brighter, you still measure the same LUX value or even a lower LUX value? We can imagine that surprises you. What surprises us is that you don't use our LUX meter to measure it. Because getting a weird outcome, when comparing LED and conventional light is a very common thing when using a standard LUX meter that you can buy anywhere.

With our **LUX meter kits** (measuring cell LP471PHOT + one of our handheld instruments), we can assure you one thing: no strange outcomes. Correct and reliable whether you measure LED or whether you measure another lightsource. The secret is that Delta OHM uses a **high class measuring cell** that has an optimal measuring curve that is fully comparable with the human eye. Simply: when you see more light, you measure more light.

Thanks to the high accurate **class B** measuring cell, we can guarantee that our instrument will give you the correct result. Without any compensations or calculation that you need to perform. Just measure, read (log even if you want to) and be done.



Main Applications

Complete KITS with all you need to measure and compare LED and conventional light

The LPBL levelling device is part of the kit. It guarantees a perfect stable base for measurements and it can be easily adjusted.

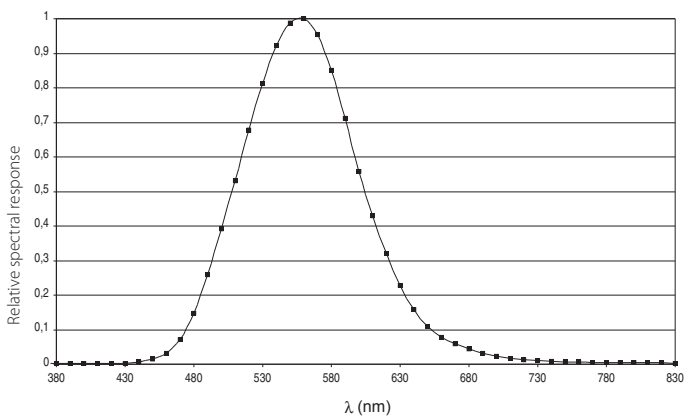


Technical Specification of the probe

Measurement range (lux)	0.10...199.99	...1999.9	...19999	...199.99·10 ³
Resolution (lux)	0.01	0.1	1	0.01·10 ³
Spectral range	in agreement with standard photopic curve V(λ)			

Class	B
Calibration uncertainty	<4%
f ₁ (in agreement with photopic response V(λ))	<6%
f ₂ (response according to the cosine law)	<6%
f ₃ (linearity)	<1%
f ₄ (instrument reading error)	<0.5%
f ₅ (fatigue)	<0.5%
α (temp. coefficient) f ₆ (T)	<0.05%K
Drift after 1 year	<1%
Working temperature	0...50 °C
Reference Standards	CIE n.69 - UNI 11142

Typical response curve: LP471PHOT



Dimensions



HD2302.0 - Base version: just measure and read the correct value

Material	ABS
Protection Degree	IP67
Operating Conditions	-5...+50°C 0...90% RH without condensation
Batteries	3 1.5V type AA batteries
Autonomy	200 hours with 1800mAh alkaline batteries
Measuring units	lux - fcd - μmol/m ² ·s - cd/m ² - W/m ² - μW/cm ² - μW/lumen

HD2102.2 - Advanced version: logging and free reporting software

Material	ABS, rubber
Protection Degree	IP66
Operating Conditions	-5...50°C 0...90% RH without condensation
Batteries	4 1.5V type AA batteries
Autonomy	200 hours with 1800mAh alkaline batteries
Mains	Output mains adapter 100-240Vac/12Vdc-1A
Measuring units	W/m ² - J/m ² Depending on the probe, it measures also: lux - fcd - lux·s - fcd·s - μW/cm ² - μJ/cm ² - μmol/(m ² ·s) - μmol/m ² - cd/m ² - μW/lumen
Security of memorized data	Unlimited, independently of battery charge conditions
Date and time	Schedule in real time
Quantity of measured values storage	Total of 38000 samples
Selectable storage interval	1, 5, 10, 15, 30 s, 1, 2, 5, 10, 15, 20, 30 min 1 hour
USB interface type	1.1 - 2.0 electrically isolated

Kits ordering codes

- LLM-Basic Kit** HD2302.0, 3 1.5V alkaline batteries, operating manual, case, LP471PHOT photometric probe, base with levelling device (LPBL).
- LLM-Advanced Kit** HD2102.2 datalogger, 4 1.5V alkaline batteries, operating manual, case, DeltaLog9 software downloadable from Delta OHM website, USB cable (CP23), stabilized power supply at 100-240Vac/12Vdc-1A mains voltage (SWD10), LP471PHOT photometric probe, base with levelling device (LPBL)..

Delta OHM

Member of GHM GROUP

In order to ensure the quality of our instruments, we are constantly re-evaluating our products. Improvements can imply changes in specification; we advise you to always check our website for the newest version of our documentation.

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