

GL PHOTOMETER 3.0 TEC

High sensitivity, Class L (DIN 5032-7:2017) photometer with thermally stabilized photodiode. Capable of extensive measurements of light flicker with high sampling rate (125 kHz) in addition to regular photometry. This device connects directly to PC by USB, to be controlled by GL Spectrosoft or dedicated API for external software use. It is prepared for goniometric measurements to work together with stray light eliminating tube. Such setup does not use optical elements responsible for cosine correction.

Features:

- Illuminance measurement Class L
- Thermally stabilized sensor
- High sensitivity for goniophotometry
- 125kHz 18bit sampling rate
- Super wide dynamic range in a single setting mode
- Controlled via USB connection



APPLICATION

Application High accuracy goniometric measurements, high quality flicker measurements including long term sampling.

MEASUREMENTS

Measurement range	0.0001 lx ... 1 000 000 lx	
Resolution	4 significant digits	
Illuminance measurement class (DIN 5032-7:2017)	Class L	
Calibration uncertainty	U_{cal}	1%
$v(\lambda)$ mismatch	f_1	1.50%
UV response	u	0.20%
IR response	r	0.20%
Cosine response	f_2	-
Linearity	f_3	0.20%

Note: Instrument, firmware and software specification are subject to change without prior notice. All information included in GL OPTIC datasheets and product information available in any form are carefully prepared and included information believed to be true. Please note that discrepancies may occur due to text and/or other errors or changes in the available technology. We advise to contact GL Optic before the use of the product to obtain the latest product specification.

GL OPTIC Polska Sp. z o.o. Sp.k

ul. Poznańska 70, 62-040 Puszczykowo, Poland
Phone: +48 61 819 40 03 | E-mail: office@gloptic.com
www.gloptic.com



Light quality control

GL PHOTOMETER 3.0 TEC

MEASUREMENTS

Display unit	f_4	0.20%
Fatigue	f_5	0.10%
Temperature dependence	f_6	0.20%
Modulated Light	f_7	0.10%
	$f_7(f_u)$	5.00%
	$f_7(f_o)$	5.00%
Range change	f_{11}	0.10%
Total quality index	f_{total}	3%
Lower frequency limit for f_7	f_u	40 Hz
Higher frequency limit for f_7	f_o	100 kHz
Sampling frequency		125 kHz
A/D conversion		18 bit

PROPERTIES

Operating temperature	5 – 30 °C
Software	GL Spectrosoft or API for external software developers
Dimensions [H x W x D]	115 mm x 66 mm x 53 mm
Weight	420 g
Connectivity	USB A-B
Power	Barrel socket 2.5 mm x 0.7 mm, 12V DC, 1.5 A
Tripod adapter	¼"

ORDERING INFORMATION

Case	✓
Power supply	✓
USB cable	✓
Part number	No.

Note: Instrument, firmware and software specification are subject to change without prior notice. All information included in GL OPTIC datasheets and product information available in any form are carefully prepared and included information believed to be true. Please note that discrepancies may occur due to text and/or other errors or changes in the available technology. We advise to contact GL Optic before the use of the product to obtain the latest product specification.

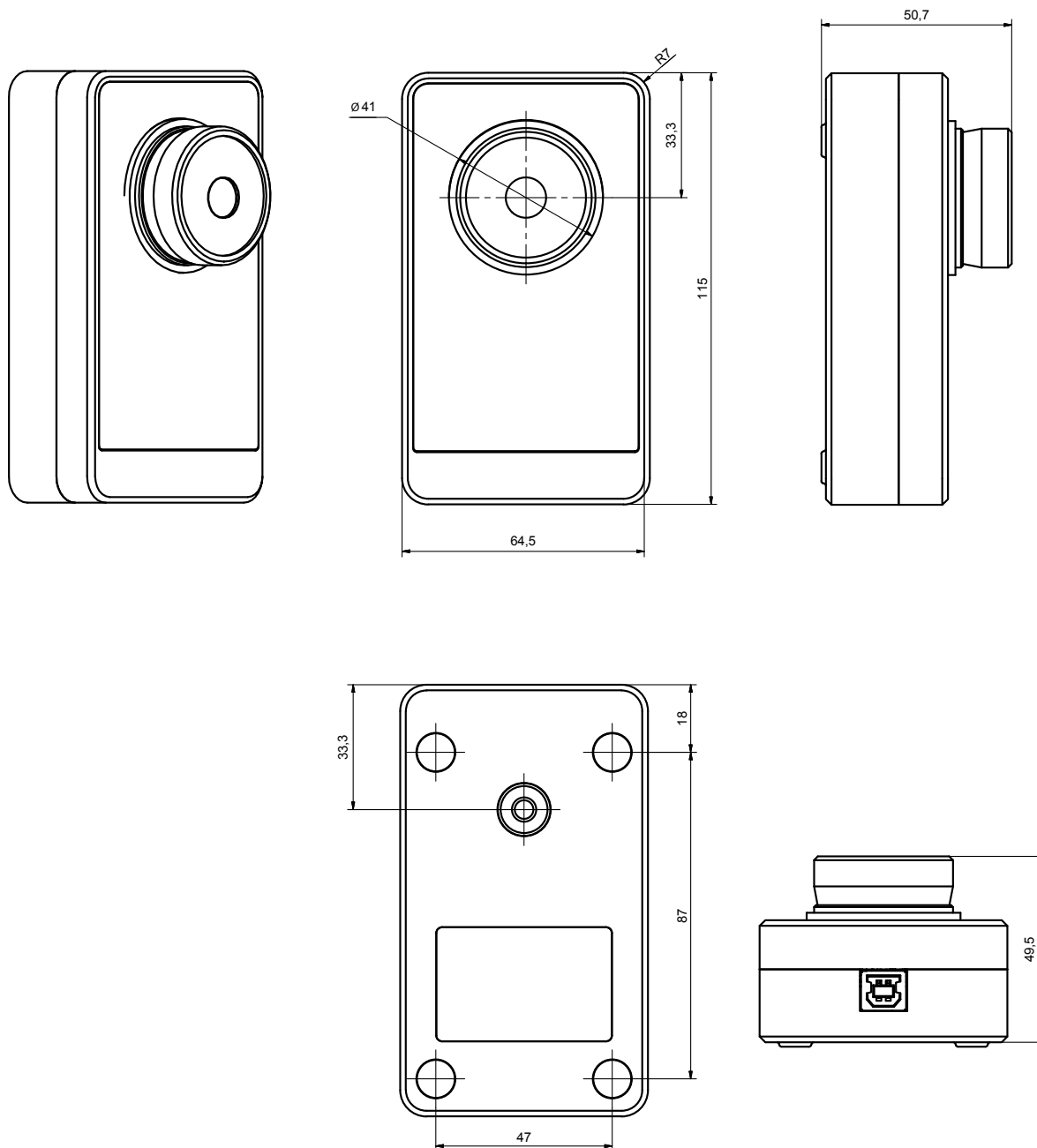
GL OPTIC Polska Sp. z o.o. Sp.k

ul. Poznańska 70, 62-040 Puszczykowo, Poland
 Phone: +48 61 819 40 03 | E-mail: office@gloptic.com
www.gloptic.com



Light quality control

GL PHOTOMETER 3.0 TEC



Note: Instrument, firmware and software specification are subject to change without prior notice. All information included in GL OPTIC datasheets and product information available in any form are carefully prepared and included information believed to be true. Please note that discrepancies may occur due to text and/or other errors or changes in the available technology. We advise to contact GL Optic before the use of the product to obtain the latest product specification.

GL OPTIC Polska Sp. z o.o. Sp.k

ul. Poznańska 70, 62-040 Puszczykowo, Poland
Phone: +48 61 819 40 03 | E-mail: office@gloptic.com
www.gloptic.com

GL OPTIC

Light quality control