

Goniophotometer with Turning Device LMT GO-V 1920





Goniophotometer LMT GO-V 1920

Technical Data

Marking	LMT GO-V 1920 Goniophotometer
Field of application	Measurement and evaluation of light technical characteristics of all types of lamps and luminaires. Luminaire turning device
Version and test object dimensions	<ul style="list-style-type: none"> GO-V 1920 for test objects up to 1920mm length (diagonal) Max. test object load: 35 Kg
System conformity	<ul style="list-style-type: none"> EEN-13032-1 CIE 121, 1996 Related internationally recognized standards
Tests performed	<ul style="list-style-type: none"> Luminous intensity distribution in C-planes Floodlight testing according to B-β system, conversion to C-γ Absolute luminous flux of objects up to 1.2m length with optional flux integrator CIE color values, with optional colorimetric system
C-axis	<ul style="list-style-type: none"> Test object mounting to C-axis mounting plate, oriented on a horizontal axis Rotation of test object $\pm 185^\circ$ Adjustable speed control
γ-axis	<ul style="list-style-type: none"> Vertically oriented γ-Axis Rotation of test object $\pm 185^\circ$ Adjustable speed control
Angular measurement	<ul style="list-style-type: none"> Optical angular encoders fixed to goniometer axes with guaranteed accuracy for encoder lifetime, resolution 0.1°
Photometric system	<ul style="list-style-type: none"> Characteristics in fulfillment of EN 13032-1 Table 3 Total characteristics $\leq 3\%$ (according to EN 13032-1, Table 3, Footnote C) $V(\lambda)$ adaptation $f_1 \leq 1\%$ by means of LMT Mosaic Filtering® Max. spectral mismatch correction factor f_2 against typical LED spectra for general lighting (white LEDs 2.500 – 7.000 K): $< 1\%$ Measurement range 0.0001 lx – 80000 lx
Luminous flux integrator (option)	<ul style="list-style-type: none"> Direct measurement of total and zonal luminous flux of lamps and luminaires in 4π orientation, e.g. for calibration of standard light sources $\pm 180^\circ$ vertical and $\pm 170^\circ$ horizontal rotation of dedicated photometer head around the test object Light sources are not moved during measurement Max. diameter of light sources: 1.2m
Colorimetric system (option)	<ul style="list-style-type: none"> LMT array type spectrometric system in dedicated design for measurement of CIE color values in conjunction with goniometer
Electrical measurement	<ul style="list-style-type: none"> System integration and control of power supplies and wattmeters for supply of test objects and corresponding measurement values
Software	<ul style="list-style-type: none"> Complete software for system control, creation and execution of test programs, data administration, evaluation, and export to light planning softwares Presentation of data in graphic and text form File import and export in IES, Eulumdat and related light-technical file formats
Building requirements	<ul style="list-style-type: none"> Typical space requirements: 3 m x 3 m x 15 m (W x H x L) for goniometer and sensors