Goniophotometer with Turning Device LMT GO-R 3000





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Goniophotometer LMT GO-R 3000



Technical Data

Marking	LMT GO-R 3000
Field of application	GO-R 3000 multi axes goniophotometer configured for measurement and evaluation of light technical characteristics of all types of lamps and luminaries. Luminaire turning device.
Tests performed	 Luminous intensity distribution in coordinate systems C-γ and/or B-β with conversion to C-γ Partial luminous flux Color quantities with LMT Spectral Color Measurement System
Version and test object dimensions	 Standard Version GO-R 3000. Bigger and smaller versions available on request C-γ coordinate system: 2 m (diagonal length) x 0.5 m (height) B-β coordinate system: 3 m (diagonal length) x 0.5 m (height) Max. test object load: 50 kg in all positions when mounted with center of gravity ≤ 0.25 m from axis
System conformity	 Conform with EN 13032-1 "Measurement and presentation of photometric data of lamps and luminaires, Part 1 Measurement and file format" Conform with EN 13032-4 and International Standard CIE S 025:2015 "Test Method for LED Lamps, LEE Luminaires and LED Modules" Including special features: Service conversion factoring as per Annex C.1.2 by automatic software routine Operational position factoring as per Sec. 4.2.5 with auxiliary photometer (option) Ambient temperature measurement as per Annex C.3.2 with auxiliary temperature sensor (option) Performance of temperature measurement as per Annex C.3.3 with auxiliary temperature sensor (option)
Test distances	 Fixed test distances to be placed at selectable positions between 5 m and 50 m Numerous test distances possible
Remote Control	· For test object mounting and teaching
Test object mounting	• Freely selectable default positions for mounting of test objects
Angular accuracy and indication	 Angular resolution: 0.1° Typical angular accuracy: 0.05° for both point and scan measurements Scan measurements in C-γ and B-β coordinate systems Typical angular repeatability: ≤ 0.01°
Photometric system	 Characteristics in fulfillment of EN 13032-1 Table 3 and EN 13032-4 Sum of 10 individual characteristics f_{total} ≤ 3% (according to EN 13032-1, Table 3, Footnote C) General V(λ) mismatch index f₁' ≤ 1% by means of LMT Mosaic Filtering[®] Spectral mismatch correction factors: LEDs Phosphor type: f₂ ≤ 1% LEDs RGB type f₂ ≤ 1.5% Conventional light sources f₂ ≤ 1% Measurement range 0.0001 - 80 000 lx (0.02 cd - 18 000 kcd at 15m) Option: Additional Auxiliary Sensor Optical Flicker Unit
Spectral color measurement system (option)	 LMT array type spectrometric system in dedicated design for measurement of color quantities including: Chromaticity coordinates Correlated color temperature Color rendering indices For details, please request the data sheet of LMT Spectral Color Measurement System LMT SM 8000 GC
Electrical measurement	• System integration and control of power supplies and wattmeters for supply of test objects and corresponding measurement values
Temperature measurement (option)	Different types of temperature sensors are available on request
Software	 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 photometric file formats
Building requirements	• Typical space requirements: 3.8 m x 3.8 m x 15 m (W x H x L) for goniophotometer and sensors
Scope of supply and services	 Scope of supply and services of basic and optional items as per individual customer request and specific quotation