Technical Sheet

GL GONIOPHOTOMETER
GLG 30-1800

GLG 30-1800 is a goniometer system designed for testing large lamps and luminaires. Max load of over 30 kg and 1800 mm max linear dimension will cover the most demanding tasks.

Additionally the usable depth along horizontal axis up to 700 mm will help to test very long high bay lamps with extended radiators. This is also an ideal solution for long tubular architectural luminaires.

Features:

- Far Field Type C with a motorized linear axis
- 3 axis stepper motors
- Angular accuracy of 0.05°
- Perfect for large LED modules and luminaires
- Optional automotive conversion kit

APPLICATION

Large LED modules and large luminaires
Compliance with the following: CIE121-1996, CIE S 025/E:2015

TECHNICAL DATA SHEET

CIE Goniometer type	Far Field Type C with horizontal optical axis ▪ DUT moving ▪ 3 axis stepper motors with worm drive gear boxes ▪ Total position encoders directly on axis
Angular range C axis	± 180°
Angular range γ axis	± 195° *
Angular positioning accuracy	0.05° for C and γ axes
Angular resolution of encoder reading for C axis	0.004°
Angular resolution of encoder reading for γ axis	0.004°
Angular speed C axis	up to 45°/s
Angular speed γ axis	up to 45°/s
DUT photometric center positioning	700 mm; stepper motor operated
Photometric distance	9 – 27 m Distance for largest DUT dimension (CIE S 025/E:2015)
DUT mounting plate (bread board)	Round d=250 mm, Fixing: multiple mounting holes: M3, M5; T slot cross pattern
Maximum DUT dimensions	≤ 1800 mm (diameter or diagonal)
Goniometer dimensions	920 x 1714 x 968 mm (W x H x D, Width including emergency pull-wire)
Maximum operating footprint diameter	2000 mm
Required space	Square 2400 x 2400 mm
Maximum load	30 kg
Goniometer weight	360 kg
Controls	PC through GL SPECTROSOFT, optional manual controller w/ buttons and encoder wheel
Communication	Ethernet
Safety	Hardware: ▪ Emergency pull-wire ▪ Remote safety controller w/ emergency stop button ▪ Emergency stop button on the optional manual controller Software: ▪ STOP button

* usable range depends on the geometry of the complete system and is influenced by placement of the measuring instruments and shadowing caused by the column

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.
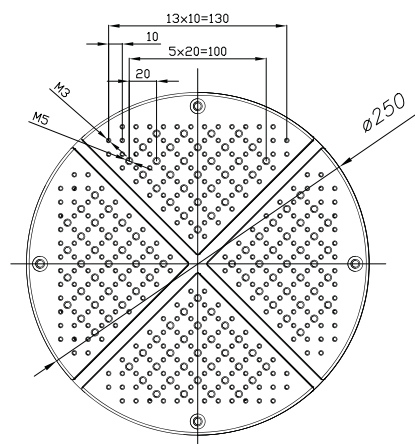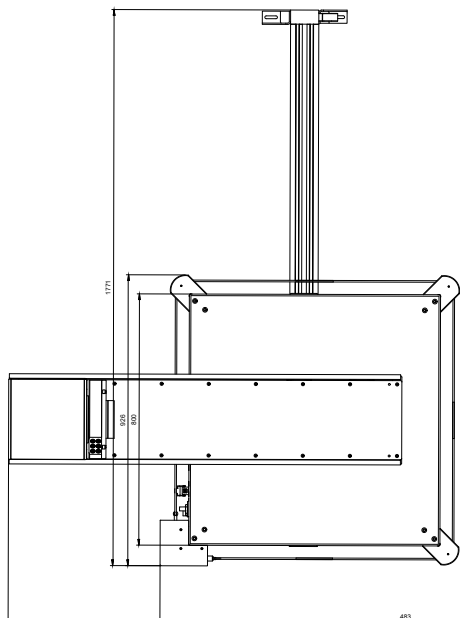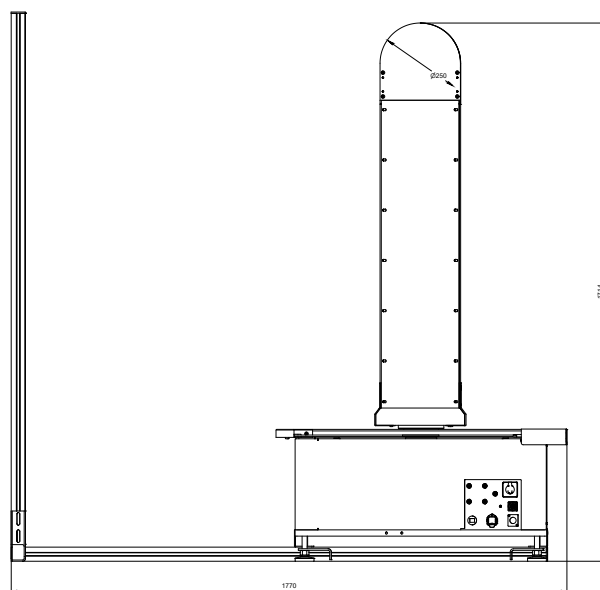
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Light quality control
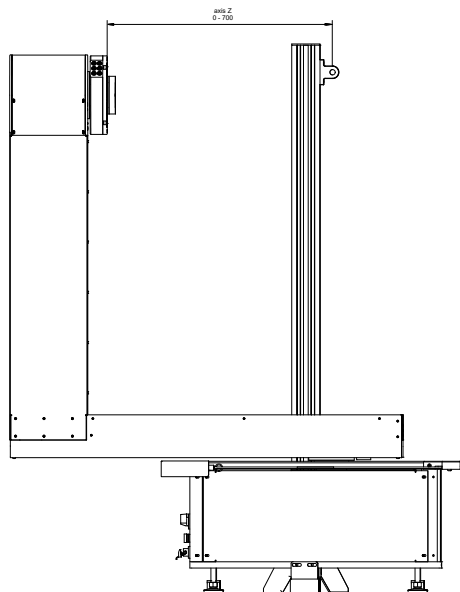
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Connections	• a pair of banana sockets for DUT power supply, rated at 10 A max. • a pair of banana sockets for remote sensing • a single banana socket for protective connection • 3.5 mm TRS jack for temperature probes All sockets appear on the base of the goniometer as well as on the DUT mounting plate
Power supply and max. Consumption	110-230 V AC, 50 Hz, 600 W
Sensor type	GL OPTIC measuring instruments: • GL SPECTIS 1.3 LS • GL SPECTIS 1.0 Touch + Flicker • GL SPECTIS 4.0 M • GL SPECTIS 5.0 Touch • GL PHOTOMETER 3.0 LS + Flicker • GL SC RADIOMETER
Product no.	201736

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Light quality control