





Light Source ID L30955 Measurement ID M30879

Report ID R3034D Client Exventar

Contact Jette Lund Nielsen

Description Mikado Glow Orientation
Dimensions Luminaire Ø: 80 mm, H: 280 mm

Luminous area Ø: 80 mm, H: 280 mm

Device received

Device tested 17-03-2016

Test done by Dennis Corell, Research Engineer
Approved by Carsten Dam-Hansen, Senior Scientist

Light Source Picture



About DTU Fotonik DTU Fotonik is an institute on the Technical University of Denmark, with

the research focus on photonics, from the UV, to the visiable and the far into the infrared. About 190 researchers are employed at DTU Fotonik,

including 55 PHD students.

About DOLL is a national GreenLab, commissioned by the Danish Department of

Energy and governed by the Technical University of Denmark (DTU).

DOLL is dedicated to test and characterization of photonic components, light sources, lamps and luminaires. DOLL provides impartial documentation for test results in accordance with International and European Standards

for conventional- and Solid State Lighting.

Test done by:

Dennis Corell

Research Engineer

Test approved by:

Date

Laster Dan Harson 29-3-2016

Senior Scientist





Report ID: R3034D Lightsource ID L30955

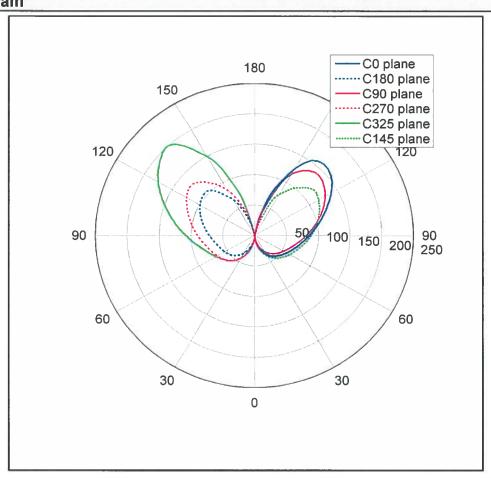
Measurement ID: M30879

Measurement Results

7.6		Power Factor [-]		0.90
92		Beam Angle [deg]	**)	
12.1				
75	*)			
	92 12.1	92 12.1	92 Beam Angle [deg] 12.1	92 Beam Angle [deg] **) 12.1

^{*)} see page 4 about stabilization

LID diagram



Measurement Resolution

The measurements was done with the following φ and θ resolution:

Phi (φ)

0 - 180 degrees

Δφ:

2.5 degrees

Theta (θ)

-173 to 173 degrees

Δθ:

1 degrees

The Phi angles moves around the light source in the horizontal plane

The Theta angles moves around the lightsource in the vertical plane

LID Files:

Eulumdat file name	L30955_M30879_201603171459_ROTY180GR.LDT	
IES file name		

^{**)} see page 4 about beam angle



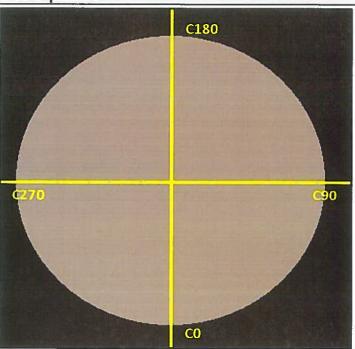
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Orientation of C-planes



Alignment of lamp:

The lamp is alligned in such a way that the center of the illuminating area of the lamp is in the center of the goniophotometer. The first axis of the luminaire follows the polar axis of the goniophotometer. This axis goes through the photometric center of the luminaire and is perpendicular the the light emitting area of the lamp. For interior lighting the lamp is alligned in such a way that the third axis for the luminaire is the "longest" dimensions of the lamp.





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Operation condition

np [°C] 24.7
None
osition Upward in a fixed position in center of the goniophotometer
0

Equipmen	nt used	
Equipment	Goniophotometer	RiGo-801 Near field goniophotmeter, Type C
	Lens and Filter	VL filter on camera with 8 mm lens
		Total flux from photometer measurement (± 5%)
	Power supply	Elgar CW1251P (±0.1 % on applied voltage)
	Power analyzer	Voltech PM1000+

Test Method

Test Method S 025/E:2015 Test Method for LED Lamps, LED Luminaires and LED Modules

About the test method

This CIE standard provides a method to fullfil the requirements needed in order to perform reproducible photometric and colorimetric measurements on LED Lamps, LED modules and LED luminaires.

*) About the stabilization

The light source is considered stable if it have been operated for at least 30 minutes and the relative difference between the minimum and maximum reading of the luminous flux and input power is less than 0.5% over a time window of 15 minutes.

The minimum stabilization time given in this report is from when the logging of data started i.e. the light source may have been pre-heating before the logging was started.

**) About beam angle

The beam angle is found taking the mean to all the half angles for every c-plane for the light source. The half angle of a c-plane is defined as where the intensity is 50% of the maximum for that c-plane. The maximum intensity of the light source is found using the mechanical axis of the light source.

Goniometer measurement equipment	Calibration date
TechnoTeam RiGO 801	02-10-2013
Reference light source: Riva B6000 E27 300° 24V 100W TT LN-05	51 08-03-2013
Voltech PM1000+	29-01-2010

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