

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *GU10 1W 80lm 2700K*
Item No: *242250*
Serial No.: *13103*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LEDline®*
Report number: *B545*
LuminaireName: *GU10 1W 80lm 2700K*
LuminaireNumber: *242250*
FileName: *B545_242250_13103_G_20190603_R_O*
Date: *2019-06-03*

Dimensions of luminaire

Length: *50 mm*
Width: *0 mm*
Height: *57 mm*

Dimensions of luminous area

Length: *50 mm*
Width: *0 mm*
C0-plane *0 mm*
C90-plane *0 mm*
C180-plane *0 mm*
C270-plane *0 mm*

Lamps:

Number of lamps: 1
 Type of lamps: 0
 Total luminous flux: 89,68 lm
 Color temperatur: 2770.06 K
 Color rendering index: 83,48
 Wattage including ballast: 0,99 W

Utilization factors:

k = 0.60 0,283
 k = 0.80 0,375
 k = 1.00 0,454
 k = 1.20 0,532
 k = 1.50 0,592
 k = 2.00 0,683
 k = 2.50 0,734
 k = 3.00 0,772
 k = 4.00 0,823
 k = 5.00 0,855

Electrical parameters

U = 230,029 V
I = 0,025 A
P = 0,990 W
 Power factor = 0,172

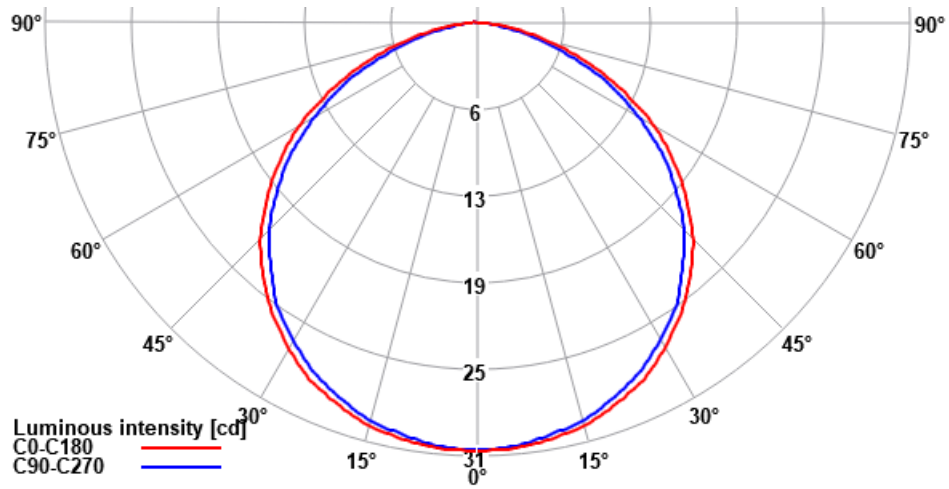
 Power apparent = 0,000 VA
 Power Reactive = 0,000 var
 Frequency Voltage = 0,000 Hz
 THD = 0,000 %

Temperature = 23.7 C

Goniometric measurement results

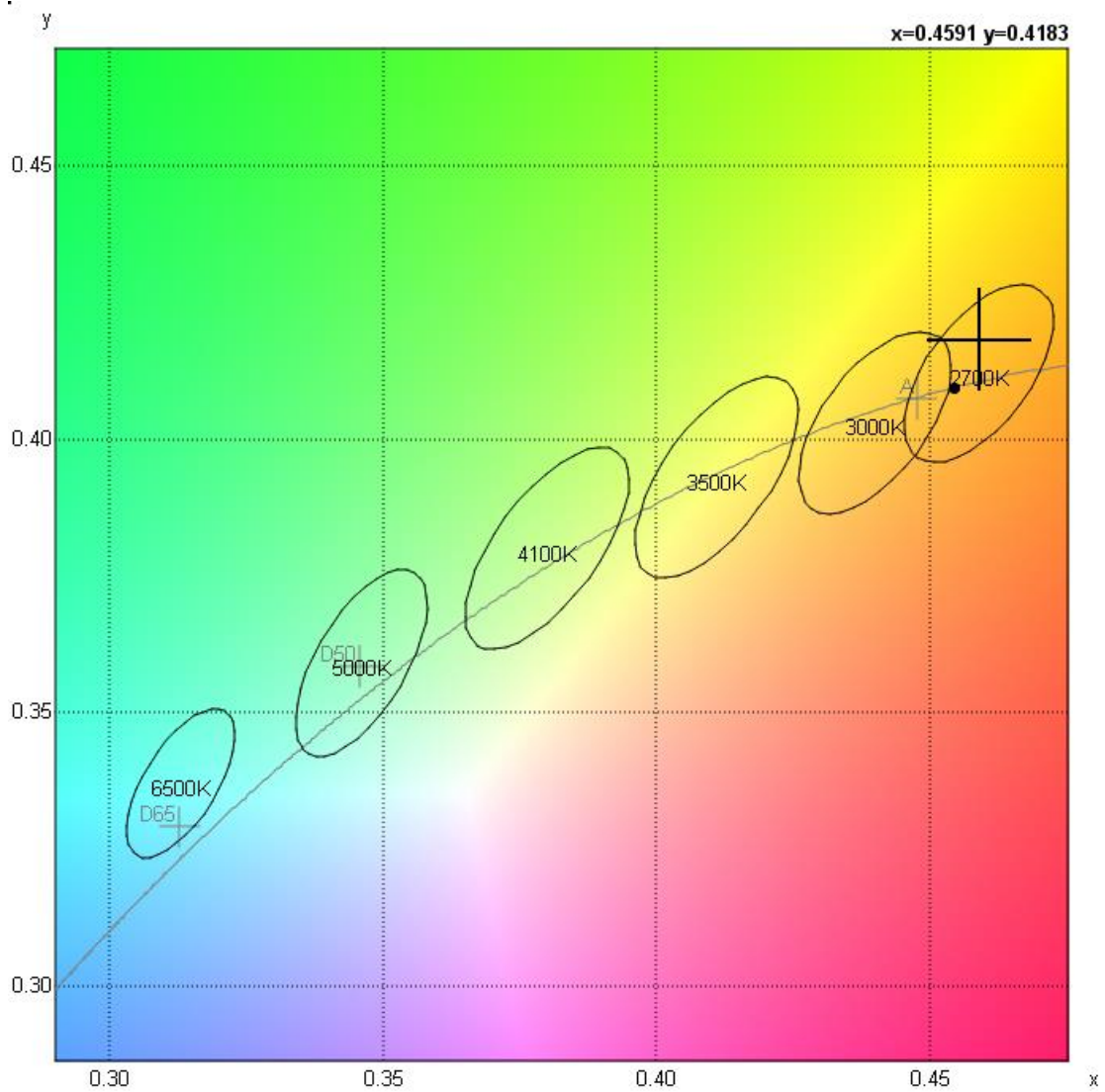
Total flux (utilized luminaire flux)	<i>89,68 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>-0,00 %</i>
Maximum luminous intensity	<i>31,11 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>90,59 lm/W</i>

Light intensity distribution diagram

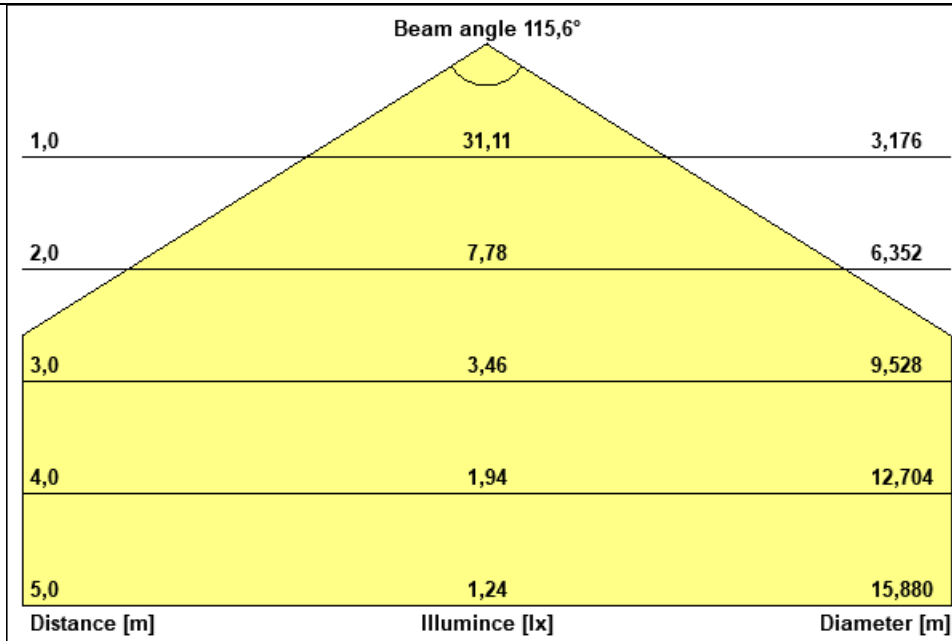


CIE 1931 diagram

x 0,4591
 y 0,4183
 Angular Colour Uniformity 0,0000
 Binning 2700K



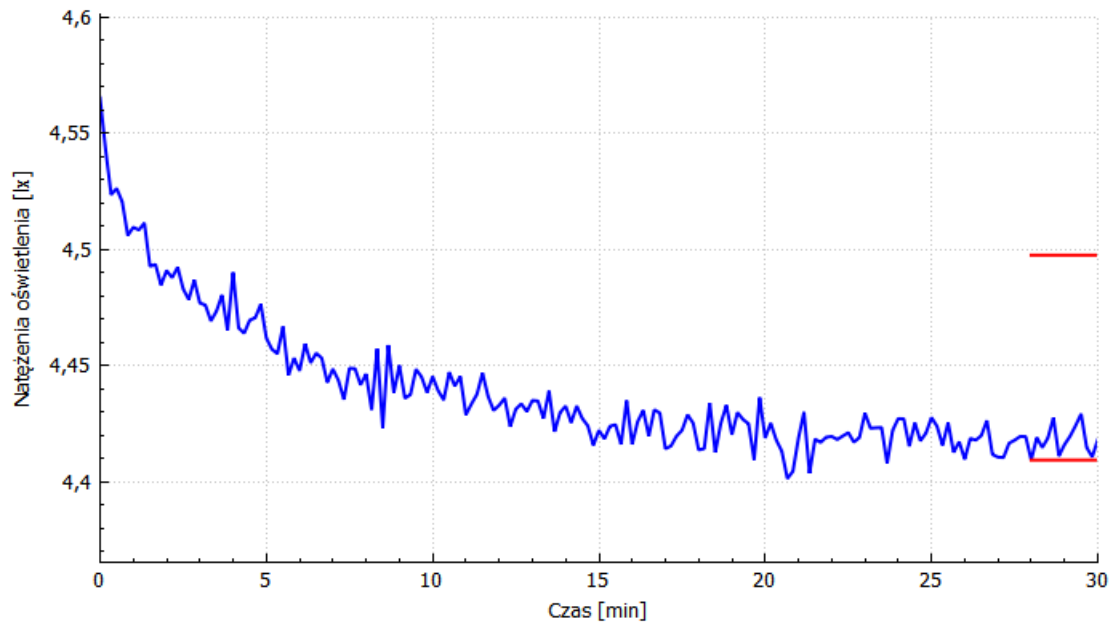
Beam cone



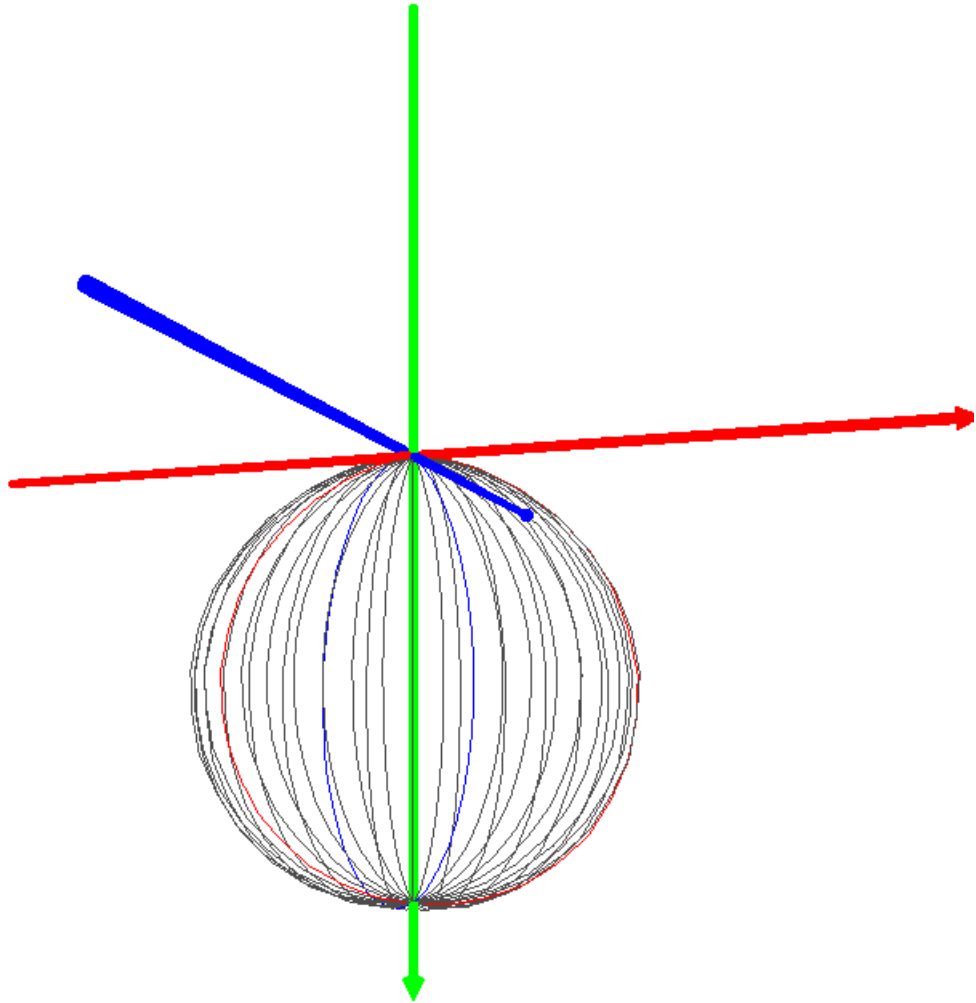
Distance [m]	Max illuminance [lx]	Diameter [m]
1	31,1089	3,176
2	7,7772	6,352
3	3,4565	9,528
4	1,9443	12,704
5	1,2444	15,880

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	115,6°	5,0°	-57,8°	57,8°
0-180°	117,2°	5,0°	-58,6°	58,6°
90-270°	113,1°	5,0°	-56,5°	56,5°




Stabilization



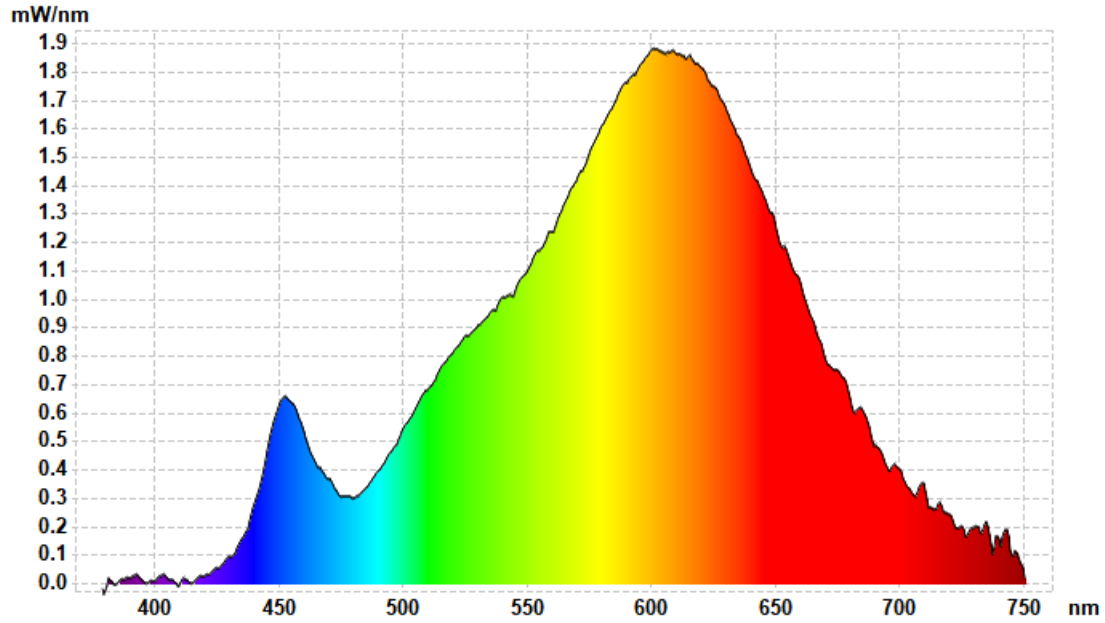
3D Chart



Legend

-  - C0-C180
-  - C90-C270
-  - G0-G180

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,4591	x	0,4665	CCT	2770
y	0,4183	y	0,4139	Chromaticity Error	0,004
Flux	89,68 lm	u'	0,2653	Color Peak	602,56
		v'	0,5296	Color Peak Value	1,88
		L	100,00	Color Dominant	583,0
u'	0,2586	a	29,65	Luminous Intensity	0,00
v'	0,5301	b	70,85	Purity	
L	100,00	X	105,74	Radiometric	0,2784
a	24,56	Y	93,83	PAR	-
b	70,85	Z	27,11	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	83,5	Ra	83,5	Mivis	2,7
R1	81,5	R8	61,5	Miuv	3,9
R2	90,7	R9	14,1	Binning	
R3	97,9	R10	78,9	Binning	2700K
R4	81,4	R11	80,6	Brightness	KY
R5	81,2	R12	70,3		
R6	89,1	R13	83,4		
R7	84,7	R14	99,3		