

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *GU10 10W 1000lm 4000K*
Item No: *248597*
Serial No.: *12903*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LEDline®*
Report number: *B556*
LuminaireName: *GU10 10W 1000lm 4000K*
LuminaireNumber: *248597*
FileName: *B556_248597_12903_G_20190604_R_P*
Date: *2019-06-04*

Dimensions of luminaire

Length: *50 mm*
Width: *0 mm*
Height: *56 mm*

Dimensions of luminous area

Length: *44 mm*
Width: *0 mm*
C0-plane *2 mm*
C90-plane *2 mm*
C180-plane *2 mm*
C270-plane *2 mm*

Lamps:

Number of lamps: 1
 Type of lamps: 0
 Total luminous flux: 1019,47 lm
 Color temperatur: 3964.49 K
 Color rendering index: 81,66
 Wattage including ballast: 9,91 W

Utilization factors:

k = 0.60 0,286
 k = 0.80 0,370
 k = 1.00 0,444
 k = 1.20 0,517
 k = 1.50 0,573
 k = 2.00 0,659
 k = 2.50 0,708
 k = 3.00 0,745
 k = 4.00 0,796
 k = 5.00 0,829

Electrical parameters

U = 230,115 V
I = 0,083 A
P = 9,908 W
 Power factor = 0,520

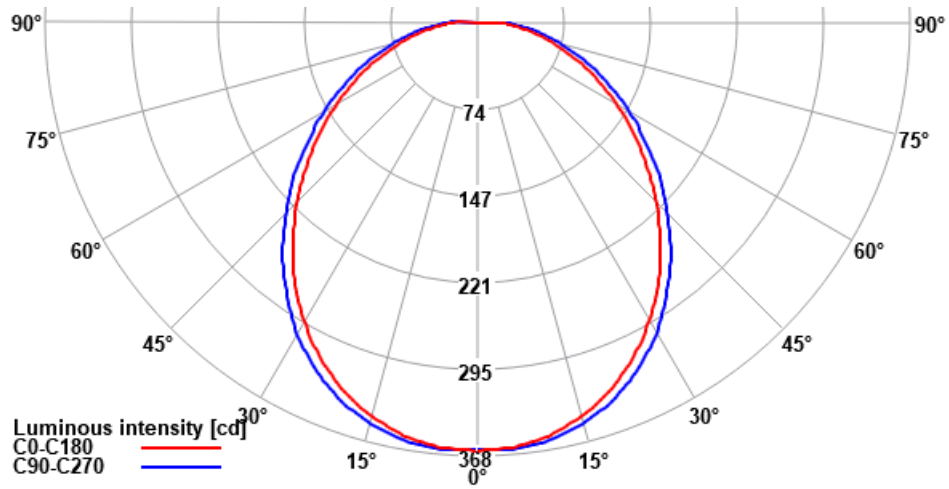
Power apparent = 0,000 VA
 Power Reactive = 0,000 var
 Frequency Voltage = 0,000 Hz
 THD = 0,000 %

Temperature = 23.8 C

Goniometric measurement results

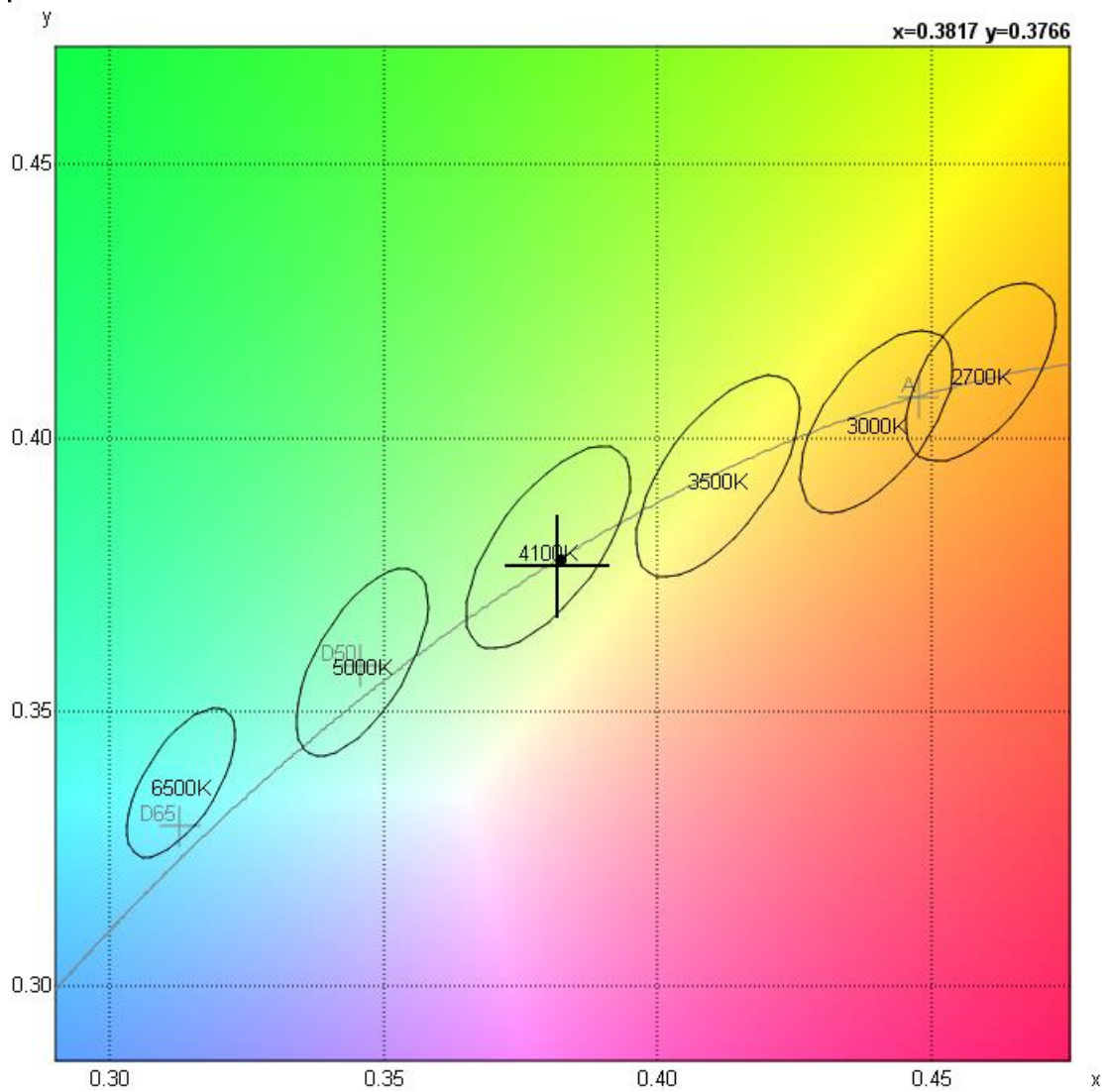
Total flux (utilized luminaire flux)	<i>1019,47 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>0,00 %</i>
Maximum luminous intensity	<i>364,77 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>102,87 lm/W</i>

Light intensity distribution diagram

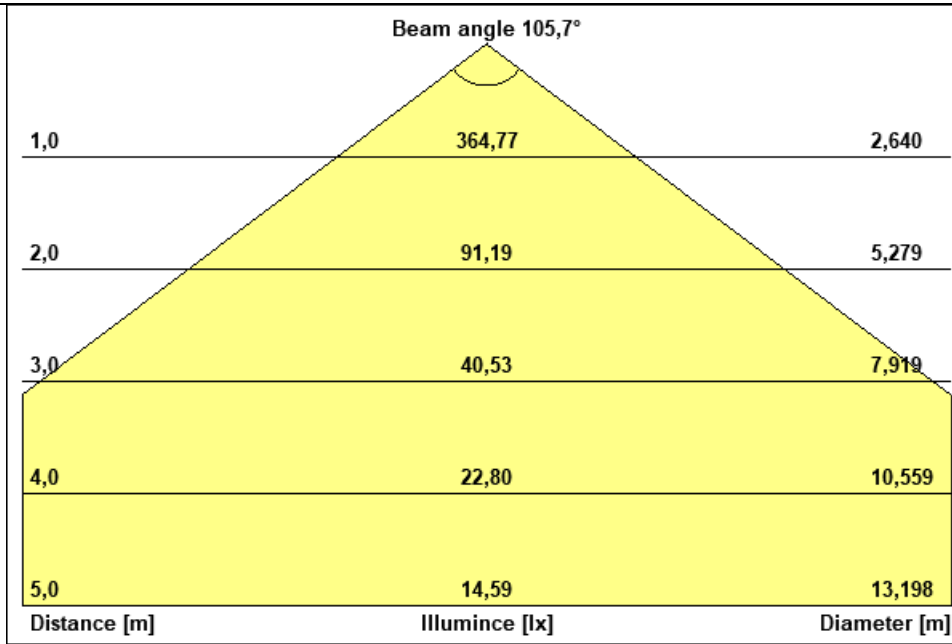


CIE 1931 diagram

x 0,3817
 y 0,3766
 Angular Colour Uniformity 0,0000
 Binning 4100K



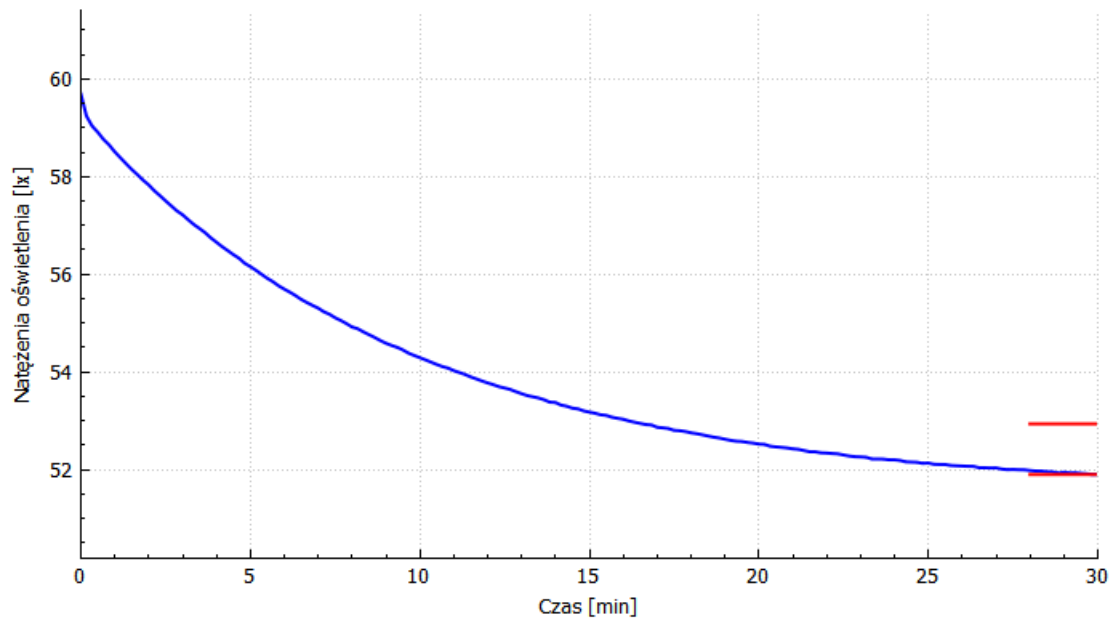
Beam cone



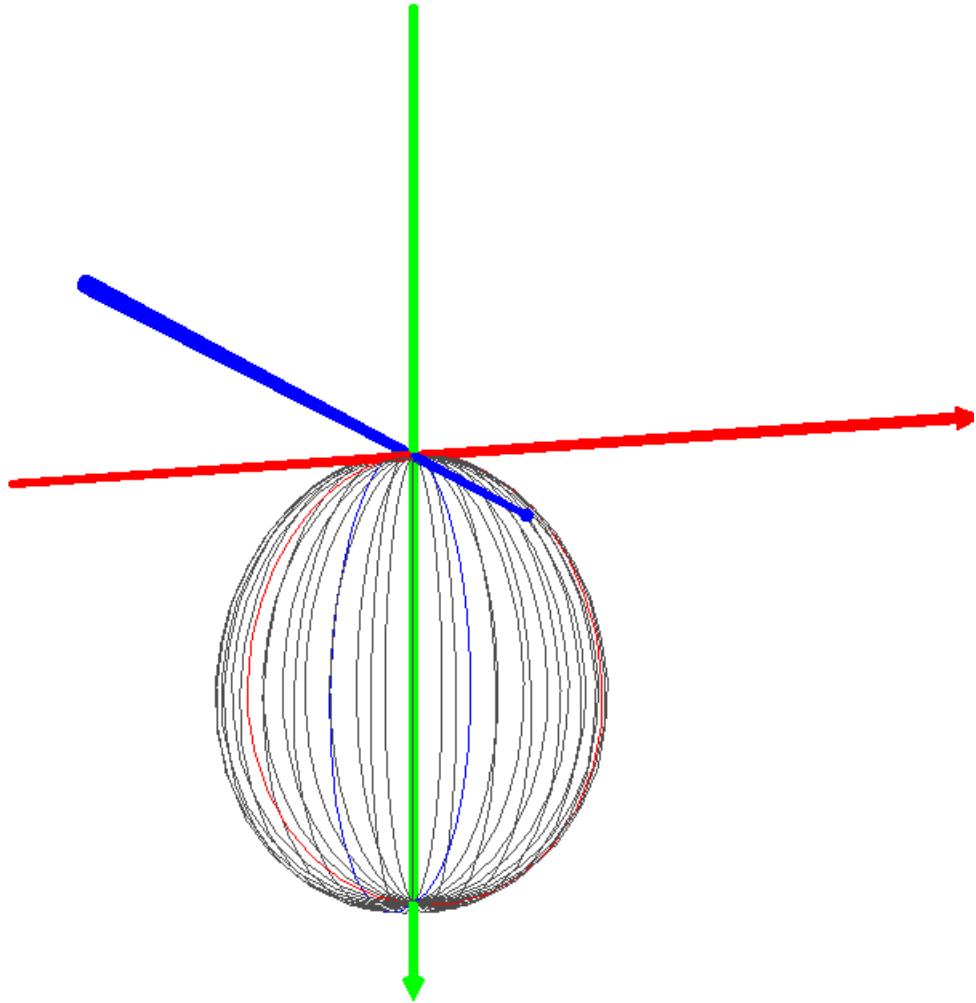
Distance [m]	Max illuminance [lx]	Diameter [m]
1	364,7674	2,640
2	91,1918	5,279
3	40,5297	7,919
4	22,7980	10,559
5	14,5907	13,198

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	105,7°	5,0°	-52,8°	52,8°
0-180°	102,7°	5,0°	-51,3°	51,3°
90-270°	107,2°	5,0°	-53,6°	53,6°

Stabilization



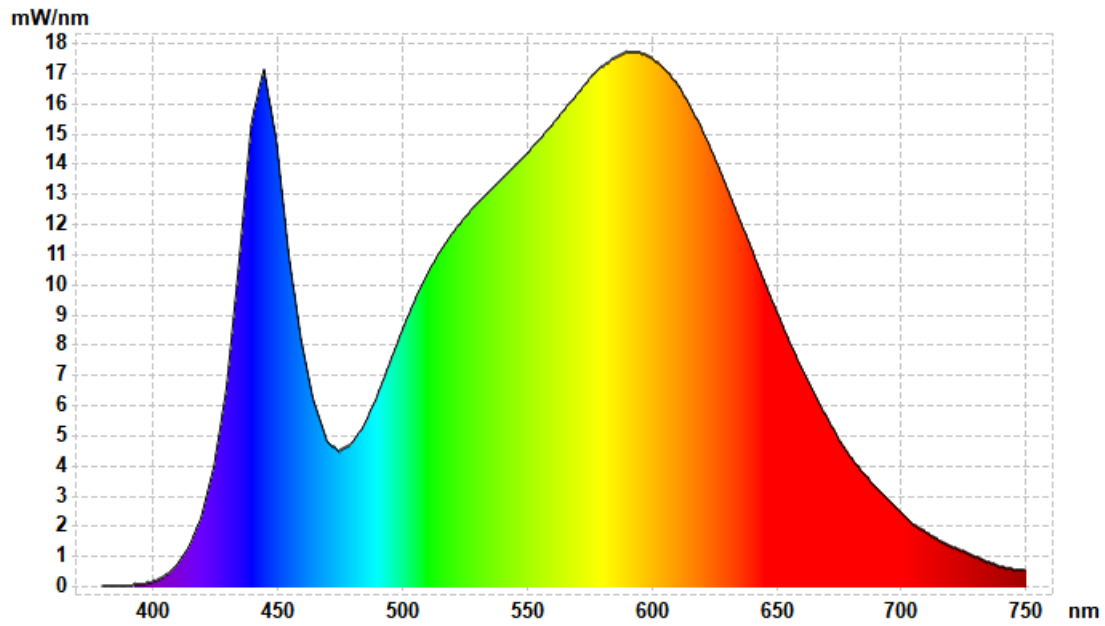
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3817	x	0,3872	CCT	3964
y	0,3766	y	0,3710	Chromaticity Error	0,004
Flux	1019,47 lm	u'	0,2319	Color Peak	594,00
		v'	0,5000	Color Peak Value	17,72
		L	100,00	Color Dominant	579,5
u'	0,2260	a	16,27	Luminous Intensity	0,00
v'	0,5017	b	30,62	Purity	
L	100,00	X	1127,19	Radiometric	3,1138
a	10,84	Y	1080,02	PAR	-
b	32,30	Z	703,91	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	81,7	Ra	81,7	Mivis	1,4
R1	80,0	R8	64,3	Miuv	4,8
R2	86,6	R9	5,9	Binning	
R3	92,2	R10	68,7	Binning	4100K
R4	82,1	R11	81,4	Brightness	
R5	80,6	R12	66,9		
R6	82,2	R13	81,1		
R7	85,3	R14	95,6		