

GL GONIOSPECTROMETER  
**Lighting Research & Measurement Center**

### Report Wizard Sample Description Lines

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Client name: *LED line®*  
Model name: *Plafon okrągły 220-240V 22W LUNAR z czujnikiem ruchu*  
Item No: *470607*  
Serial No.: *66411*  
Made by: *Radosław Kośnik*

### Eulumdat Fields

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Company: *LED line®*  
Report number: *B1388*  
LuminaireName: *Plafon okrągły 220-240V 22W LUNAR z czujnikiem ruchu*  
LuminaireNumber: *470607*  
FileName: *B1388\_470607\_66411\_G\_20200603\_R\_O*  
Date: *2020-06-03*

### Dimensions of luminaire

Length: *300 mm*  
Width: *0 mm*  
Height: *40 mm*

### Dimensions of luminous area

Length: *265 mm*  
Width: *0 mm*  
C0-plane *10 mm*  
C90-plane *10 mm*  
C180-plane *10 mm*  
C270-plane *10 mm*

**Lamps:**

Number of lamps: 1  
Type of lamps: 0  
Total luminous flux: 2172,47 lm  
Color temperatur: 4032.3 K  
Color rendering index: 83,59  
Wattage including ballast: 21,13 W

**Utilization factors:**

k = 0.60 0,278  
k = 0.80 0,365  
k = 1.00 0,441  
k = 1.20 0,515  
k = 1.50 0,573  
k = 2.00 0,661  
k = 2.50 0,711  
k = 3.00 0,749  
k = 4.00 0,801  
k = 5.00 0,834

**Electrical parameters**

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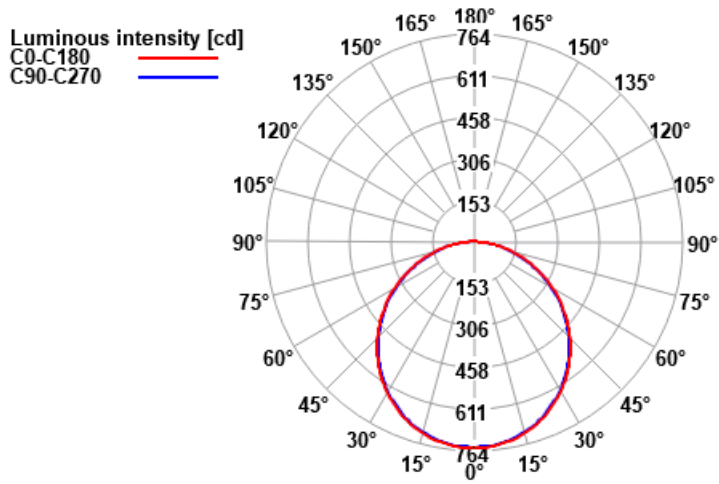
Power source: IT7321 300VA  
U = 230,148 V  
I = 0,099 A  
P = 21,128 W  
Power factor = 0,924

Temperature = 23.1 C

## Goniometric measurement results

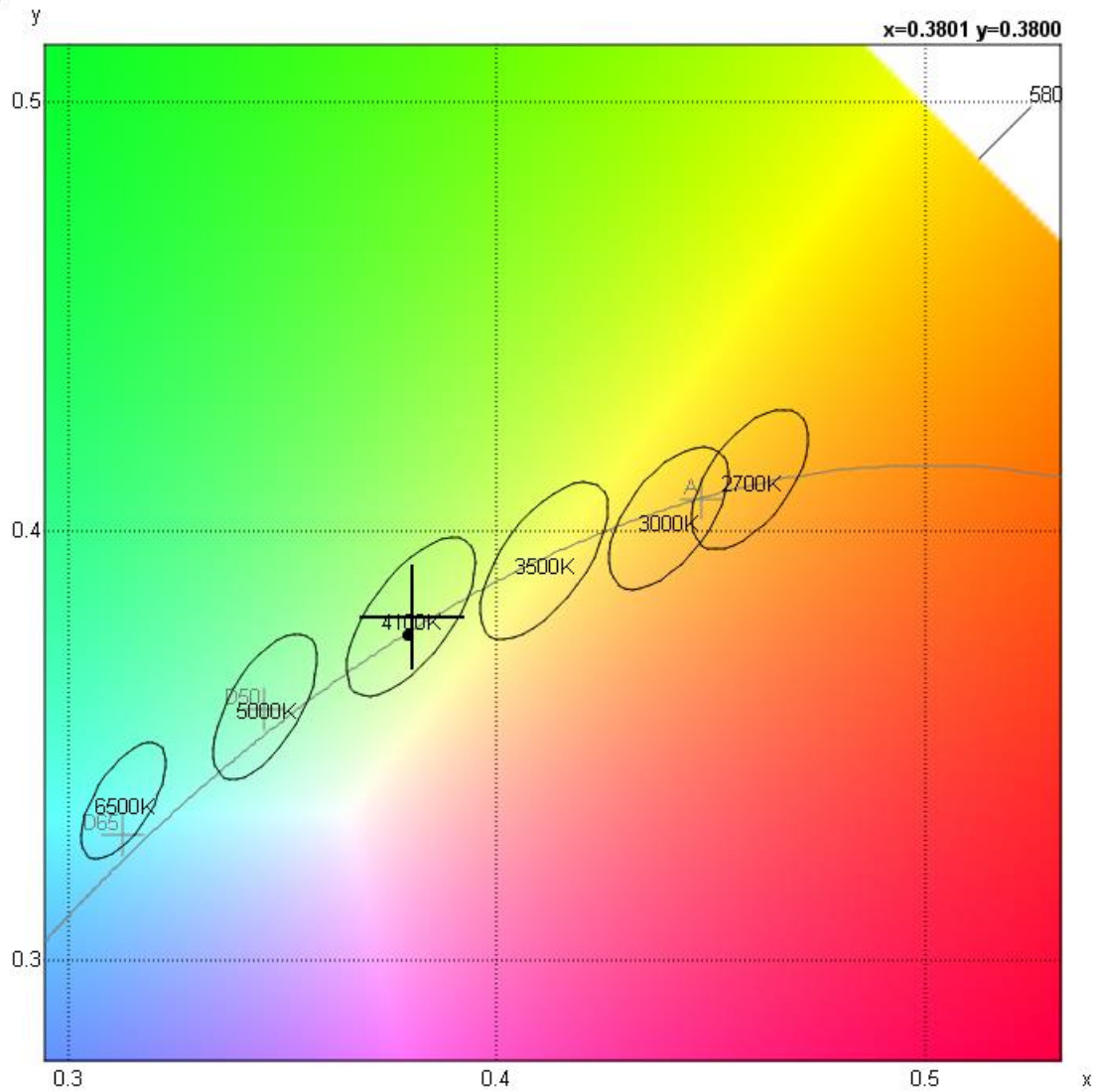
Total flux (utilized luminaire flux)	<i>2172,47 lm</i>
Flux in lower hemisphere	<i>99,51 %</i>
Flux in upper hemisphere	<i>0,49 %</i>
Maximum luminous intensity	<i>757,90 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>102,81 lm/W</i>

**Light intensity distribution diagram**

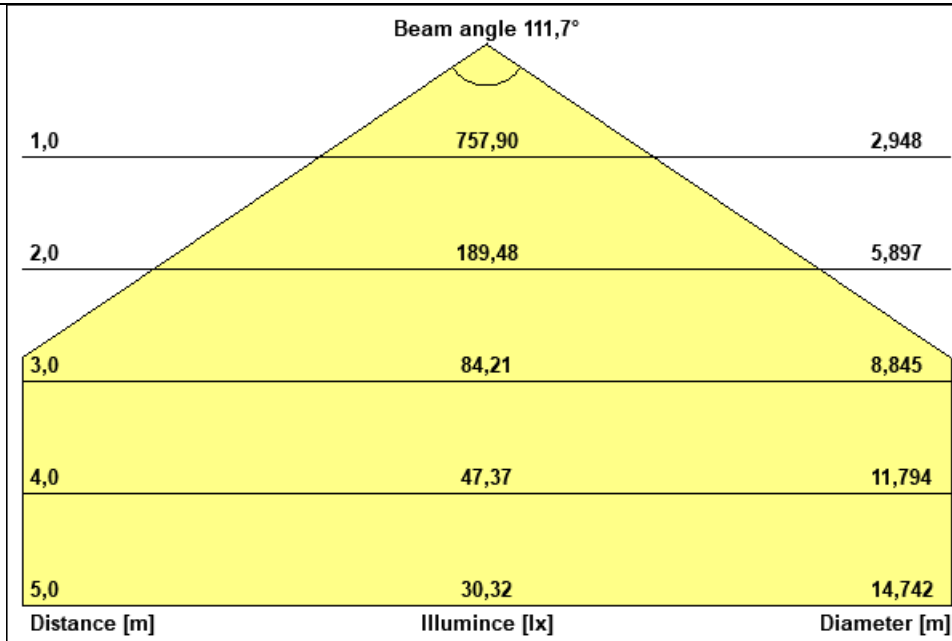


**CIE 1931 diagram**

x 0,3801  
 y 0,3800  
 Angular Colour Uniformity 0,0000  
 Binning 4100K



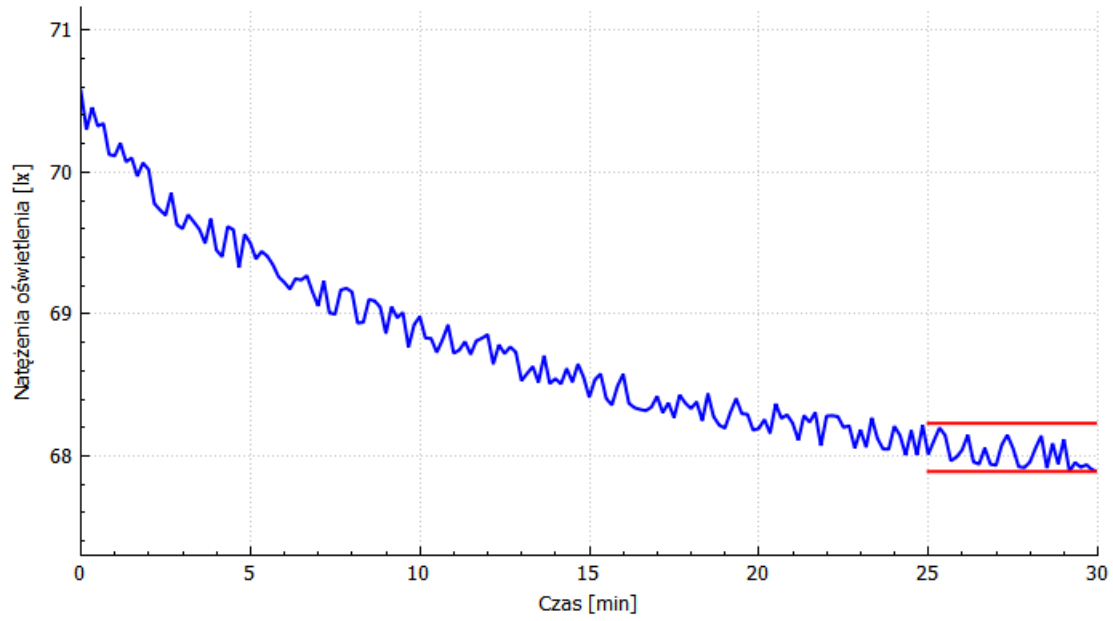
**Beam cone**



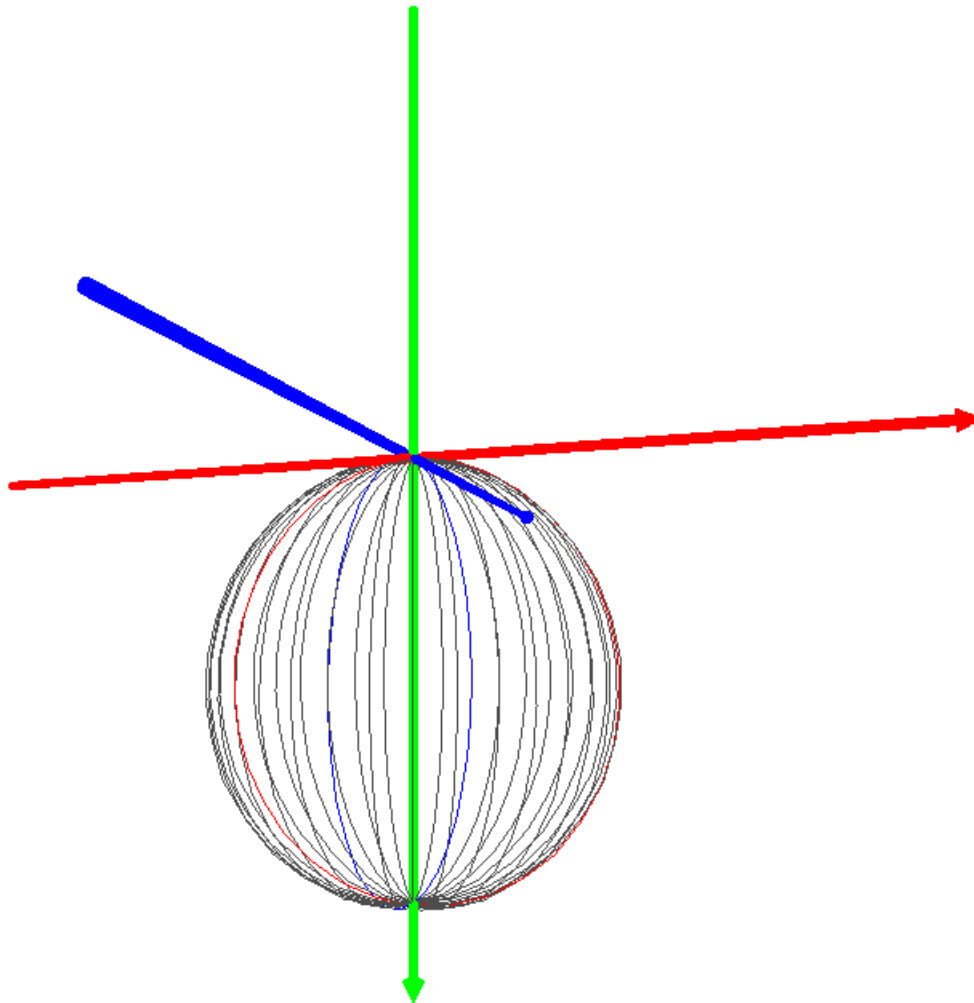
Distance [m]	Max illuminance [lx]	Diameter [m]
1	757,9024	2,948
2	189,4756	5,897
3	84,2114	8,845
4	47,3689	11,794
5	30,3161	14,742

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	111,7°	5,0°	-55,9°	55,9°
0-180°	112,0°	5,0°	-56,0°	56,0°
90-270°	111,6°	5,0°	-55,8°	55,8°

## Stabilization



### 3D Chart

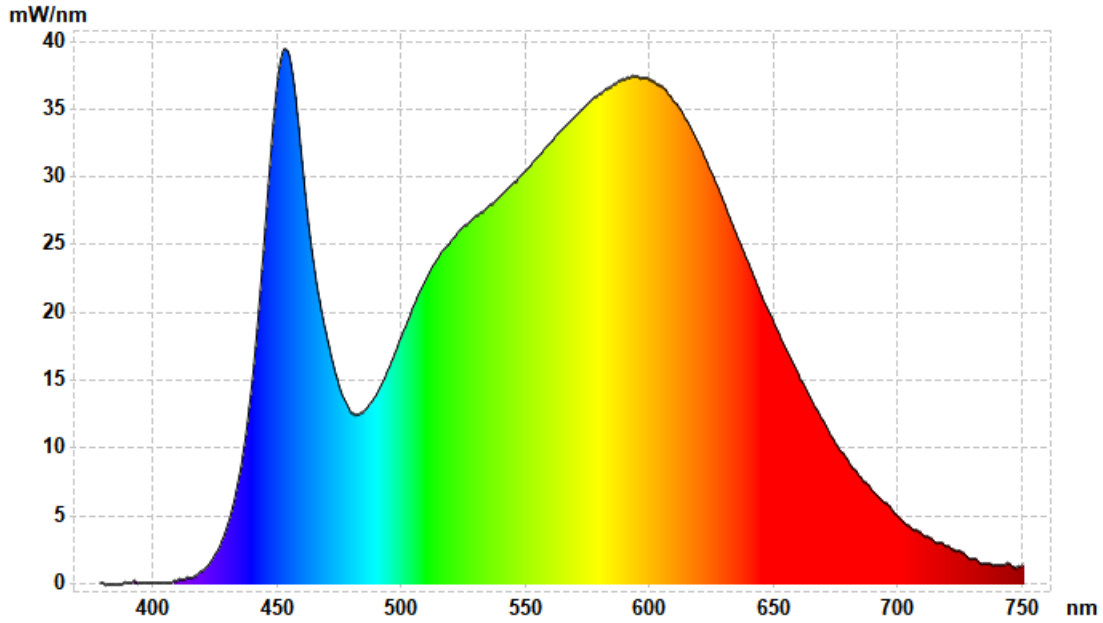


Legend

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



## Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3801	x	0,3866	CCT	4032
y	0,3800	y	0,3778	Chromaticity Error	0,003
Flux	2172,47 lm	u'	0,2288	Color Peak	454,60
		v'	0,5030	Color Peak Value	39,44
		L	100,00	Color Dominant	578,1
u'	0,2236	a	12,89	Luminous Intensity	0,00
v'	0,5030	b	33,10	Purity	
L	100,00	X	2364,62	Radiometric	6,5695
a	8,59	Y	2310,69	PAR	-
b	33,24	Z	1440,86	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	83,6	Ra	83,6	Mivis	2,1
R1	82,0	R8	64,9	Miuv	4,0
R2	90,6	R9	10,5	Binning	
R3	95,9	R10	77,0	Binning	4100K
R4	81,3	R11	80,0	Brightness	
R5	81,6	R12	60,3		
R6	86,4	R13	84,3		
R7	86,2	R14	98,1		