

GL GONIOSPECTROMETER  
**Lighting Research & Measurement Center**

**Report Wizard Sample Description Lines**

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Client name: *LED line®*  
Model name: *LUNAR 22W*  
Item No: *470591*  
Serial No.: *66411*  
Made by: *Radosław Kośnik*

**Eulumdat Fields**

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Company: *LED line®*  
Report number: *B1375*  
LuminaireName: *LUNAR 22W*  
LuminaireNumber: *470591*  
FileName: *B1375\_470591\_66411\_G\_20200527\_R\_O*  
Date: *2020-05-27*

**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: 1852,45 lm  
 Color temperatur: 4003.19 K  
 Color rendering index: 83,37  
 Wattage including ballast: 20,92 W

**Utilization factors:**

k = 0.60 0,272  
 k = 0.80 0,358  
 k = 1.00 0,433  
 k = 1.20 0,507  
 k = 1.50 0,565  
 k = 2.00 0,653  
 k = 2.50 0,703  
 k = 3.00 0,742  
 k = 4.00 0,795  
 k = 5.00 0,828

**Electrical parameters**

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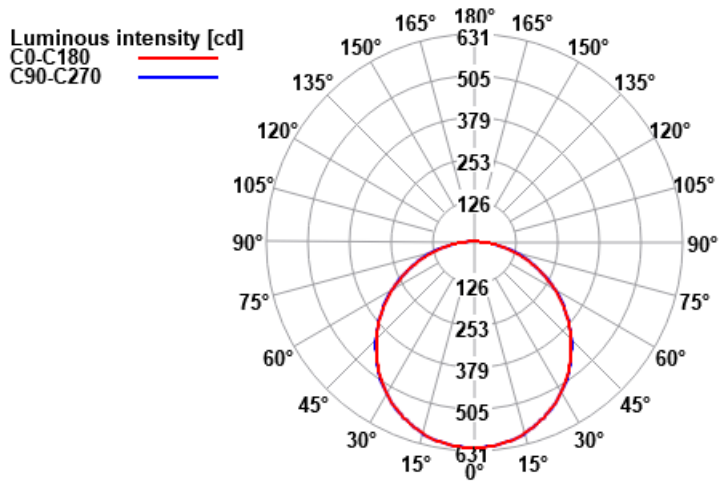
Power source: IT7321 300VA  
 U = 230,033 V  
 I = 0,158 A  
 P = 20,921 W  
 Power factor = 0,574

Temperature = 23.6 C

## Goniometric measurement results

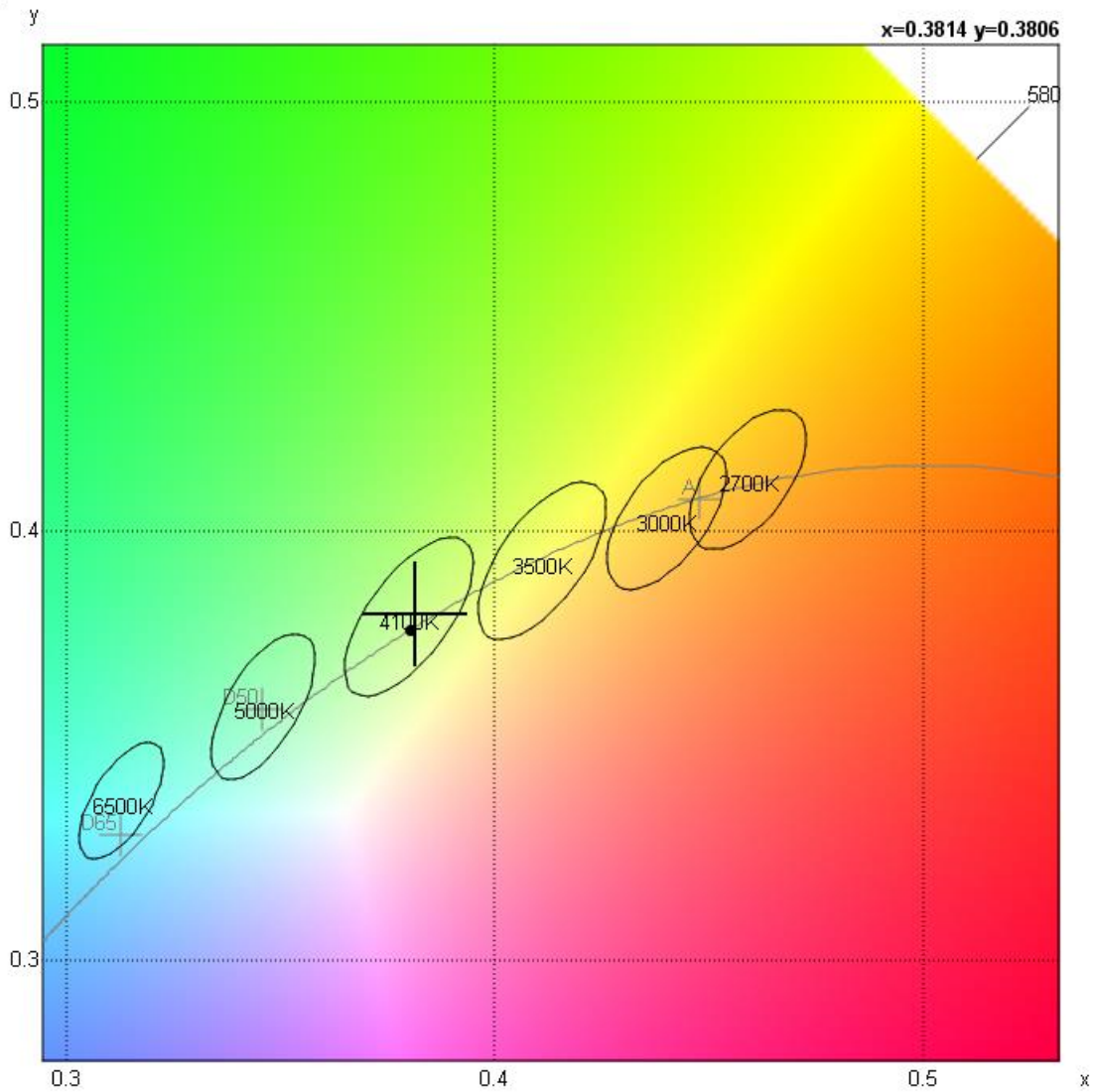
Total flux (utilized luminaire flux)	<i>1852,45 lm</i>
Flux in lower hemisphere	<i>99,51 %</i>
Flux in upper hemisphere	<i>0,49 %</i>
Maximum luminous intensity	<i>625,18 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>88,55 lm/W</i>

**Light intensity distribution diagram**

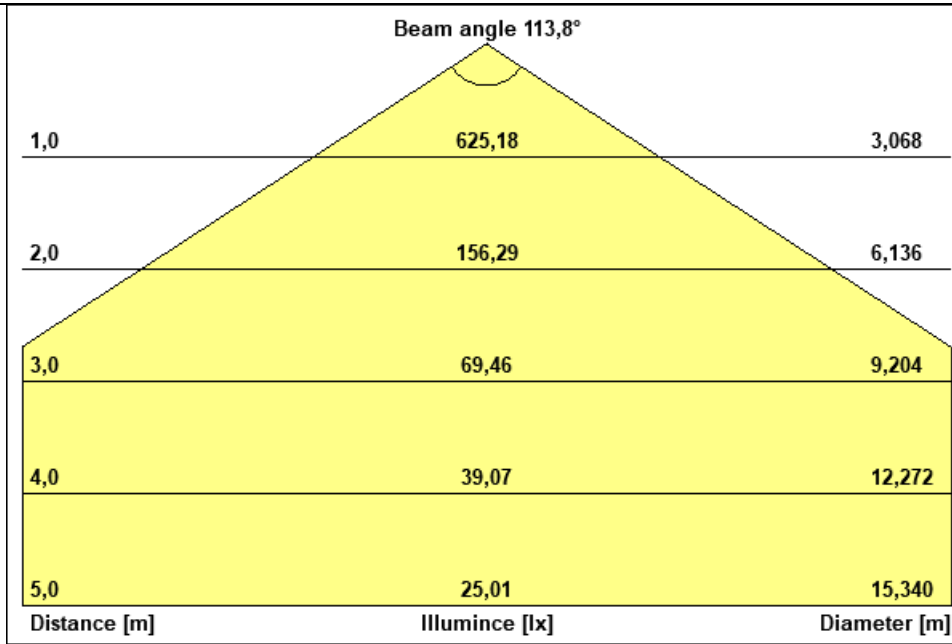


**CIE 1931 diagram**

x 0,3814  
 y 0,3806  
 Angular Colour Uniformity 0,0000  
 Binning 4100K



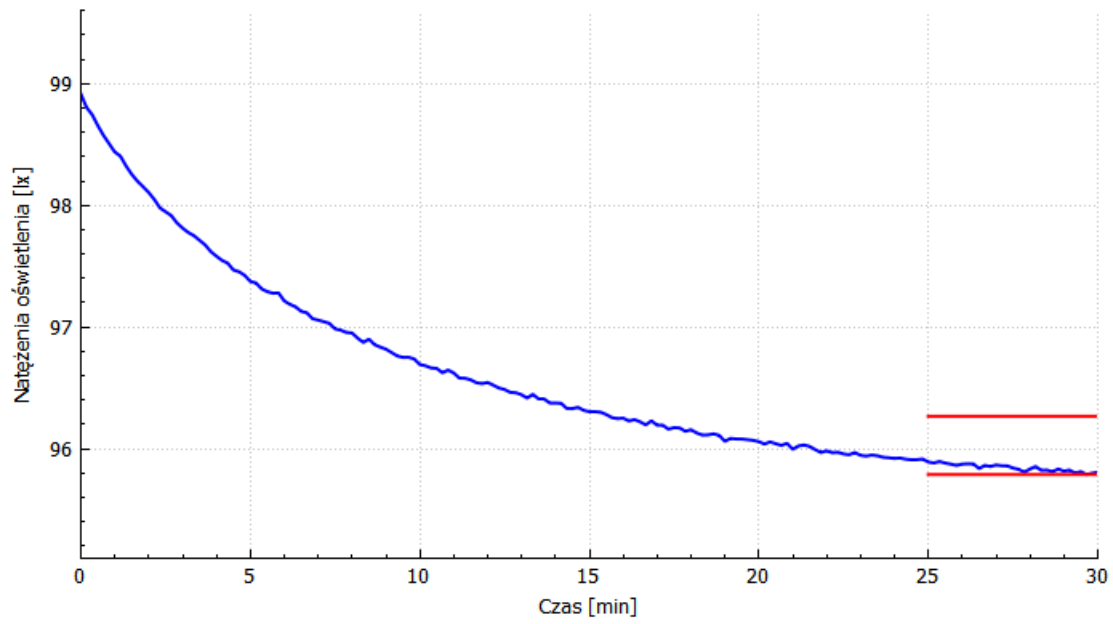
**Beam cone**



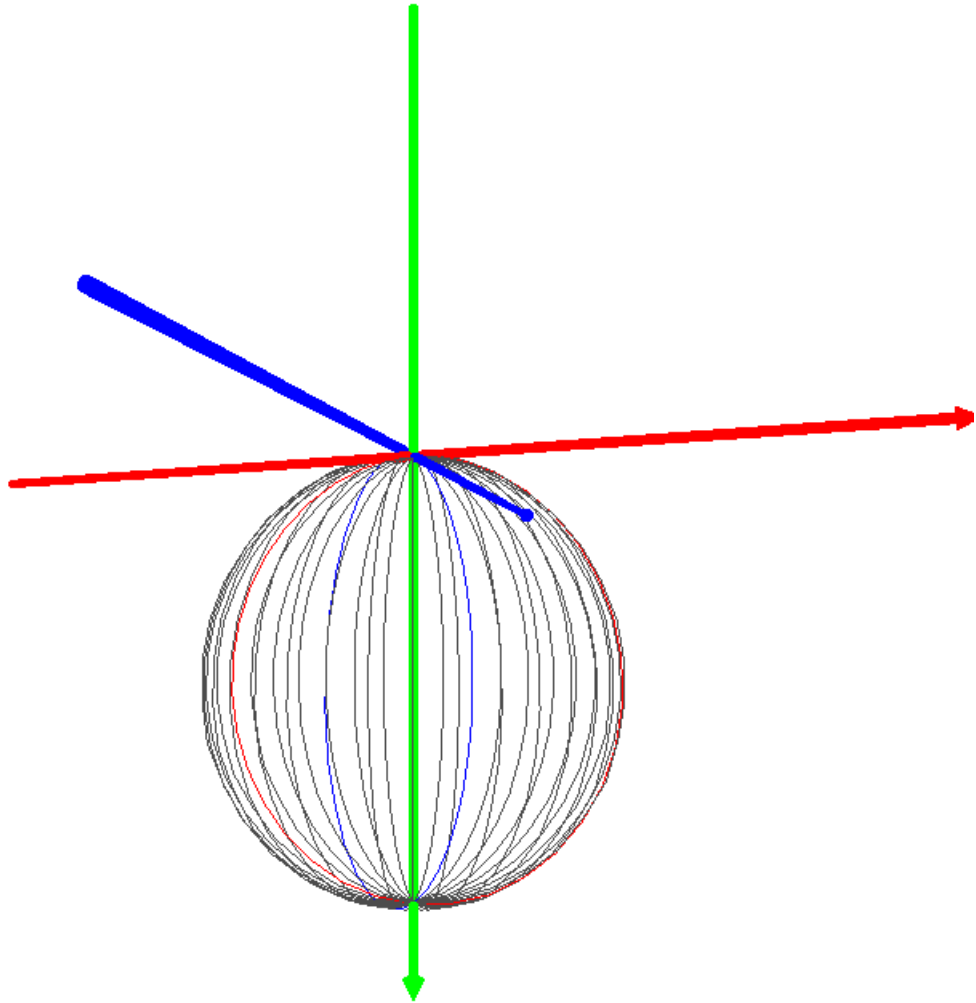
Distance [m]	Max illuminance [lx]	Diameter [m]
1	625,1793	3,068
2	156,2948	6,136
3	69,4644	9,204
4	39,0737	12,272
5	25,0072	15,340

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	113,8°	5,0°	-56,9°	56,9°
0-180°	113,5°	5,0°	-56,7°	56,7°
90-270°	114,0°	5,0°	-57,0°	57,0°

## Stabilization



### 3D Chart

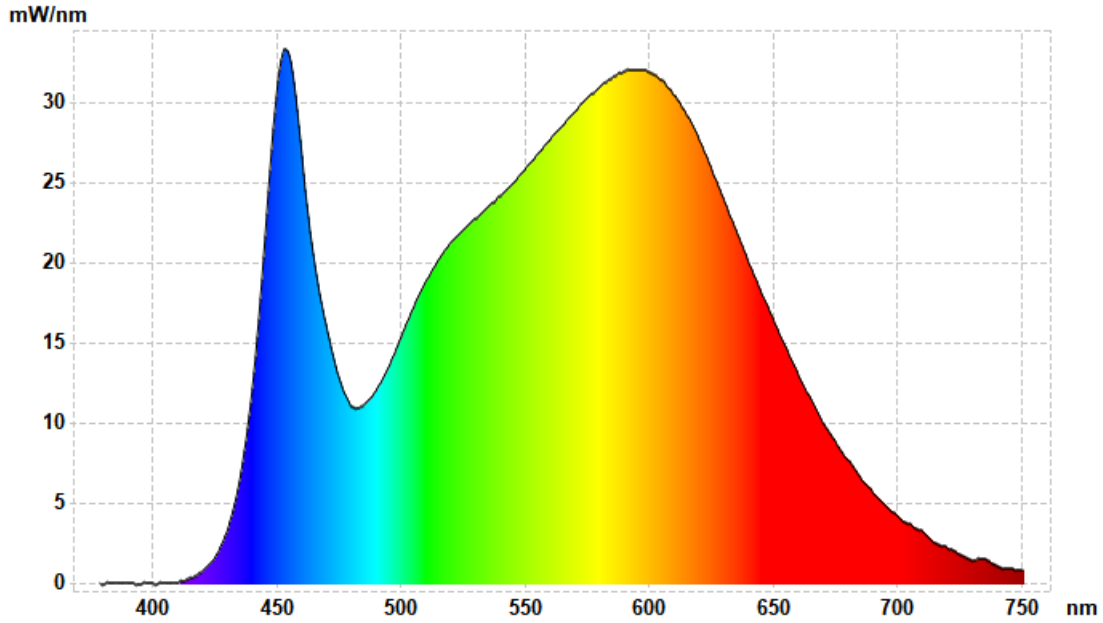


Legend

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



## Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3814	x	0,3879	CCT	4003
y	0,3806	y	0,3785	Chromaticity Error	0,003
Flux	1852,45 lm	u'	0,2293	Color Peak	454,60
		v'	0,5035	Color Peak Value	33,42
		L	100,00	Color Dominant	578,3
u'	0,2242	a	13,14	Luminous Intensity	0,00
v'	0,5034	b	33,67	Purity	
L	100,00	X	2019,22	Radiometric	5,5883
a	8,89	Y	1970,31	PAR	-
b	33,74	Z	1216,06	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	83,4	Ra	83,4	Mivis	2,2
R1	81,8	R8	64,1	Miuv	4,0
R2	90,8	R9	9,2	Binning	
R3	96,0	R10	77,5	Binning	4100K
R4	80,7	R11	79,3	Brightness	
R5	81,4	R12	60,5		
R6	86,6	R13	84,2		
R7	85,7	R14	98,2		