

GL GONIOSPECTROMETER  
**Lighting Research & Measurement Center**

**Report Wizard Sample Description Lines**

---

Client name: *LED line®*  
Model name: *Panel 30W 4000K 3600lm kwadrat 2in1*  
Item No: *478481*  
Serial No.: *10601*  
Made by: *Radosław Kośnik*

**Eulumdat Fields**

---

Company: *LED line®*  
Report number: *B2943*  
LuminaireName: *Panel 30W 4000K 3600lm kwadrat 2in1*  
LuminaireNumber: *478481*  
FileName: *B2943\_478481\_10601\_G\_20220603*  
Date: *2022-06-03*

**Dimensions of luminaire**

Length: *595 mm*  
Width: *595 mm*  
Height: *16 mm*

**Dimensions of luminous area**

Length: *540 mm*  
Width: *540 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: 3640.11 lm  
 Color temperatur: 3876 K  
 Color rendering index: 81.16  
 Wattage including ballast: 30.11 W

**Utilization factors:**

k = 0.60 0.274  
 k = 0.80 0.363  
 k = 1.00 0.440  
 k = 1.20 0.516  
 k = 1.50 0.575  
 k = 2.00 0.664  
 k = 2.50 0.715  
 k = 3.00 0.754  
 k = 4.00 0.807  
 k = 5.00 0.840

**Electrical parameters**

---

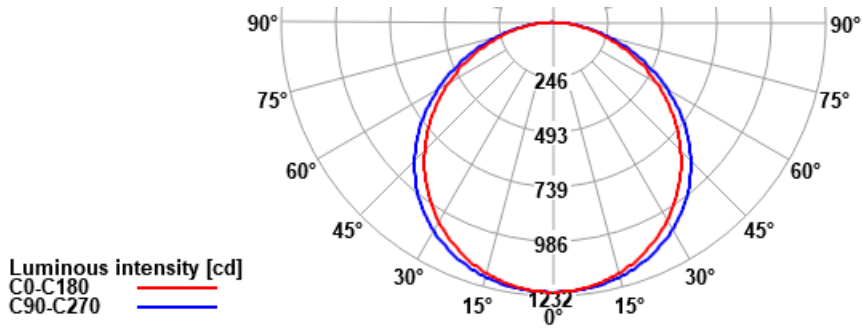
Power source: IT7321 300VA  
 U = 230.038 V  
 I = 0.136 A  
 P = 30.106 W  
 Power factor = 0.963

Temperature = 25.1 C

## Goniometric measurement results

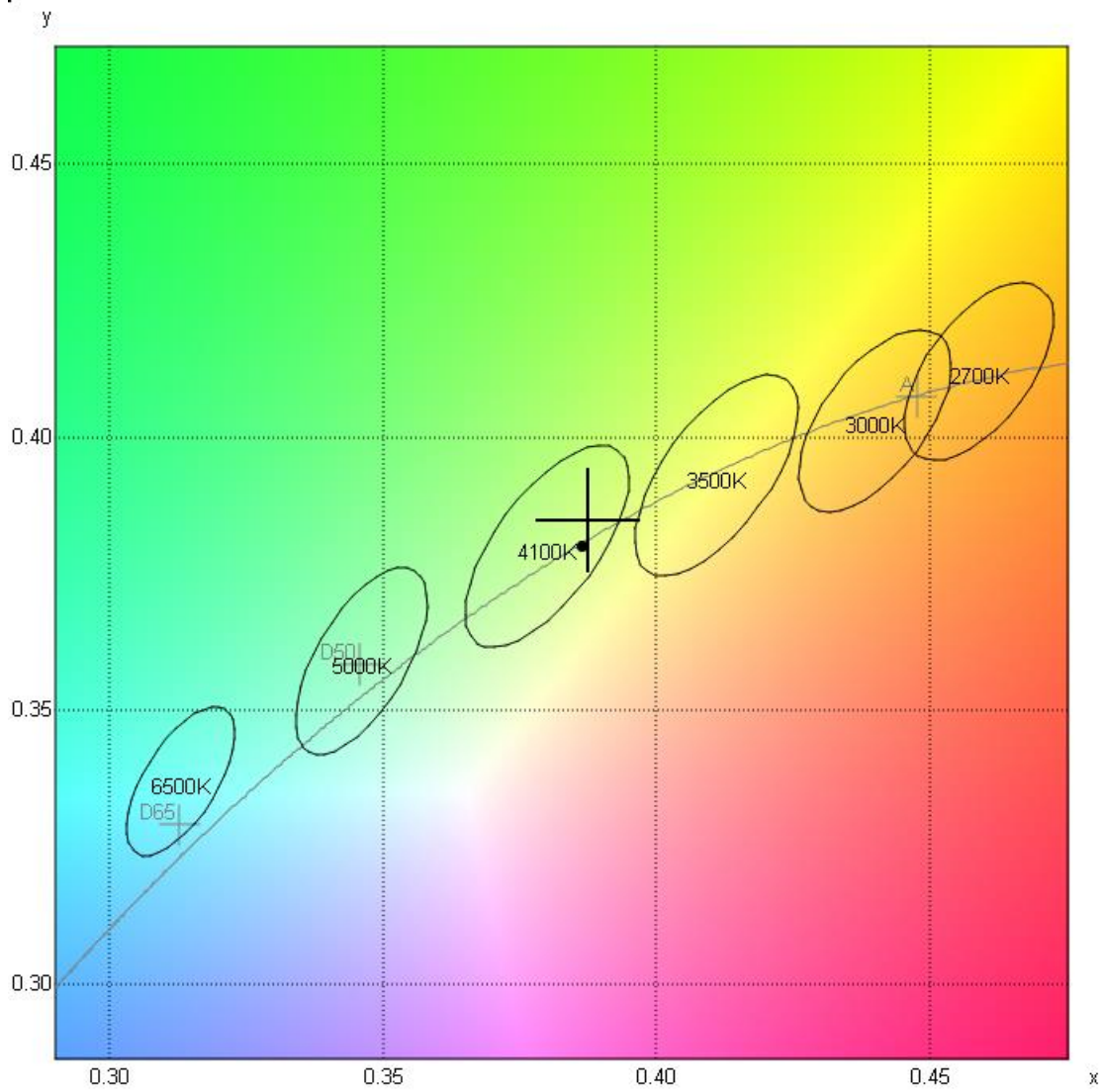
Total flux (utilized luminaire flux)	3640.11 <i>lm</i>
Flux in lower hemisphere	100.00 %
Flux in upper hemisphere	0.00 %
Maximum luminous intensity	1220.23 <i>cd</i>
Light output ratio (LOR)	100.00 %
Luminous efficacy	120.89 <i>lm/W</i>

# Light intensity distribution diagram

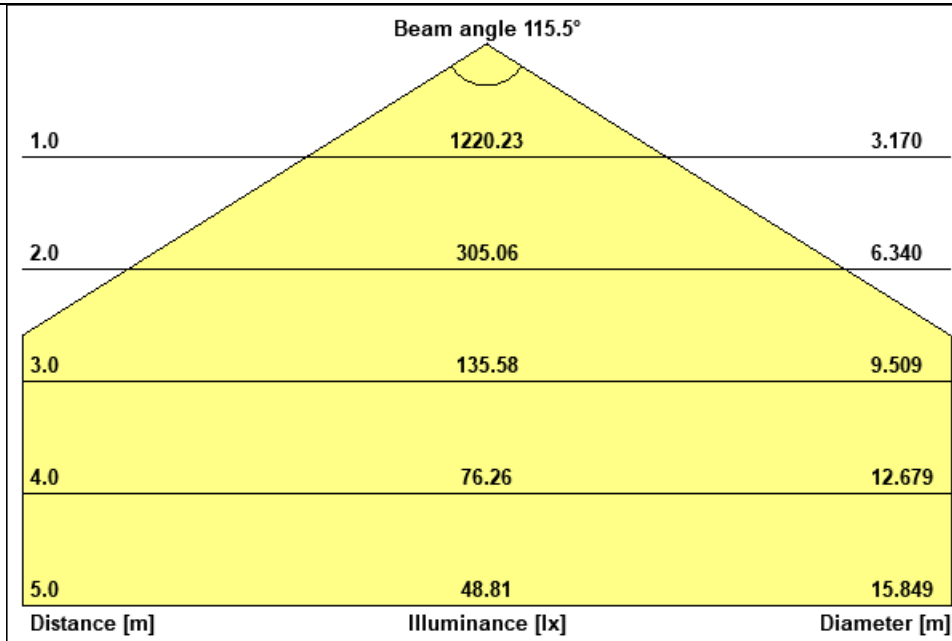


**CIE 1931 diagram**

x 0.3874  
 y 0.3849  
 Angular Colour Uniformity 0.0013  
 Binning 4100K



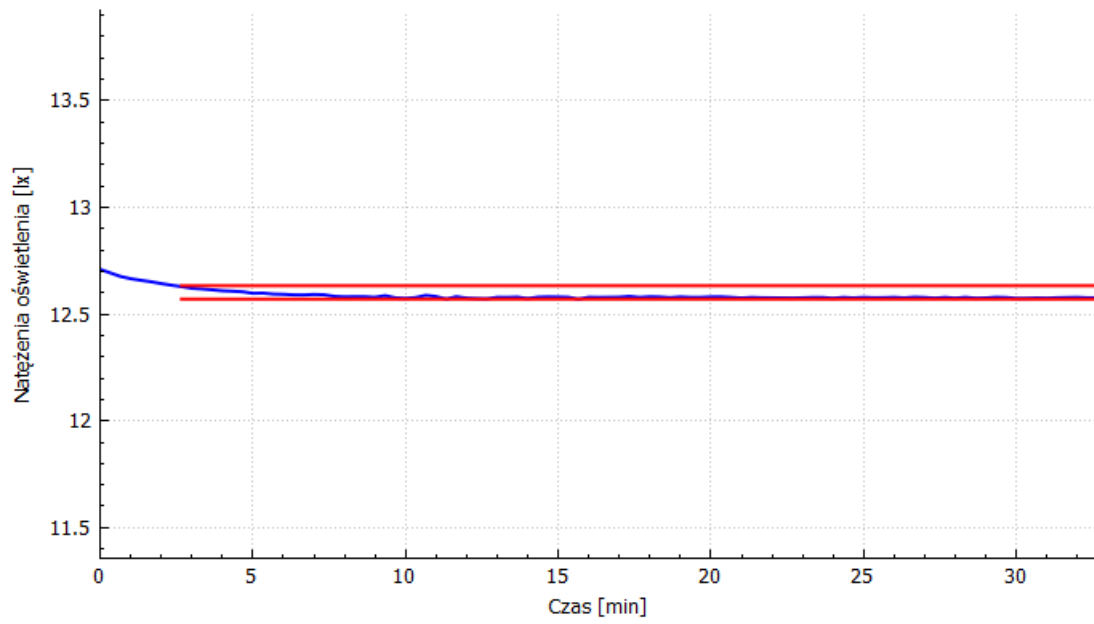
**Beam cone**



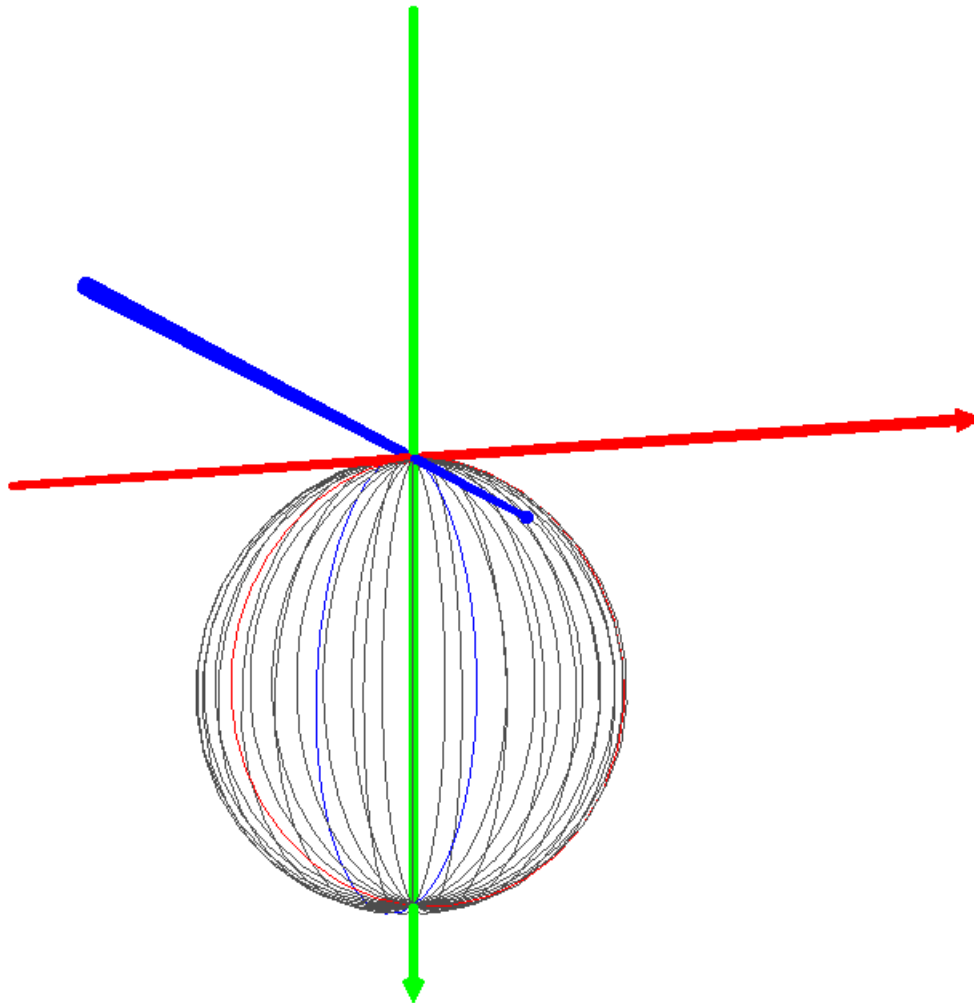
Distance [m]	Max illumince [lx]	Diameter [m]
1	1220.2300	3.170
2	305.0575	6.340
3	135.5811	9.509
4	76.2644	12.679
5	48.8092	15.849

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	115.5°	5.0°	-57.8°	57.8°
0-180°	113.2°	5.0°	-56.6°	56.6°
90-270°	118.8°	5.0°	-59.4°	59.4°

## Stabilization



### 3D Chart

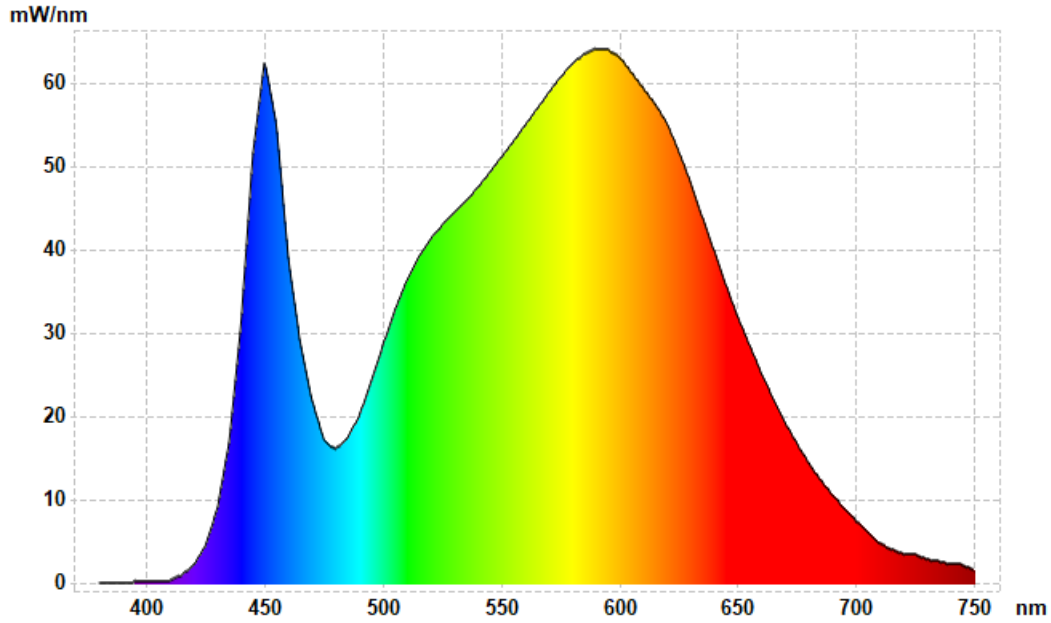


Legend

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



## Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0.3874	x	0.3940	CCT	3876
y	0.3849	y	0.3804	Chromaticity Error	0.003
Flux	3640.11 lm	u'	0.2326	Color Peak	592.28
	3640.11	v'	0.5052	Color Peak Value	64.08
u'	0.2265	L	100.00	Color Dominant	578.7
v'	0.5061	a	14.98	Luminous Intensity	0.00
L	100.00	b	35.88	Purity	0.318
a	9.68	X	3991.70	Radiometric	10.7822
b	36.79	Y	3853.48	PAR	-
		Z	2284.87	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	81.2	Ra	81.2	Mivis	1.8
R1	78.8	R8	61.9	Miuv	4.3
R2	87.4	R9	1.3	Binning	
R3	94.2	R10	70.4	Binning	4100K
R4	80.0	R11	78.5	Brightness	
R5	78.9	R12	59.0		
R6	82.6	R13	80.7		
R7	85.4	R14	96.9		