

GL GONIOSPECTROMETER  
**Lighting Research & Measurement Center**

**Report Wizard Sample Description Lines**

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Client name: *LED line®*  
Model name: *Panel LED line kwadrat Easy Fix 6W 470lm 4000K*  
Item No: *2467484*  
Serial No.: *48312*  
Made by: *Radosław Kośnik*

**Eulumdat Fields**

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Company: *LEDline®*  
Report number: *B570*  
LuminaireName: *Panel LED line kwadrat Easy Fix 6W 470lm 4000K*  
LuminaireNumber: *246784*  
FileName: *B570\_246784\_48312\_G\_20190617\_R\_P*  
Date: *2019-06-17*

**Dimensions of luminaire**

Length: *115 mm*  
Width: *115 mm*  
Height: *14 mm*

**Dimensions of luminous area**

Length: *76 mm*  
Width: *76 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:	464,40 lm
Color temperatur:	3947.25 K
Color rendering index:	81,20
Wattage including ballast:	6,29 W

**Utilization factors:**

k = 0.60	0,278
k = 0.80	0,366
k = 1.00	0,443
k = 1.20	0,519
k = 1.50	0,578
k = 2.00	0,667
k = 2.50	0,718
k = 3.00	0,756
k = 4.00	0,809
k = 5.00	0,841

**Electrical parameters**

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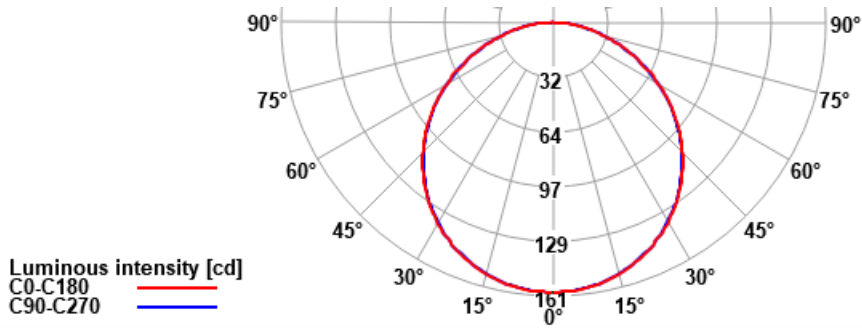
Power source:	IT7321 300VA
U	= 230,055 V
I	= 0,051 A
P	= 6,294 W
Power factor	= 0,540

Temperature = 24.6 C

## Goniometric measurement results

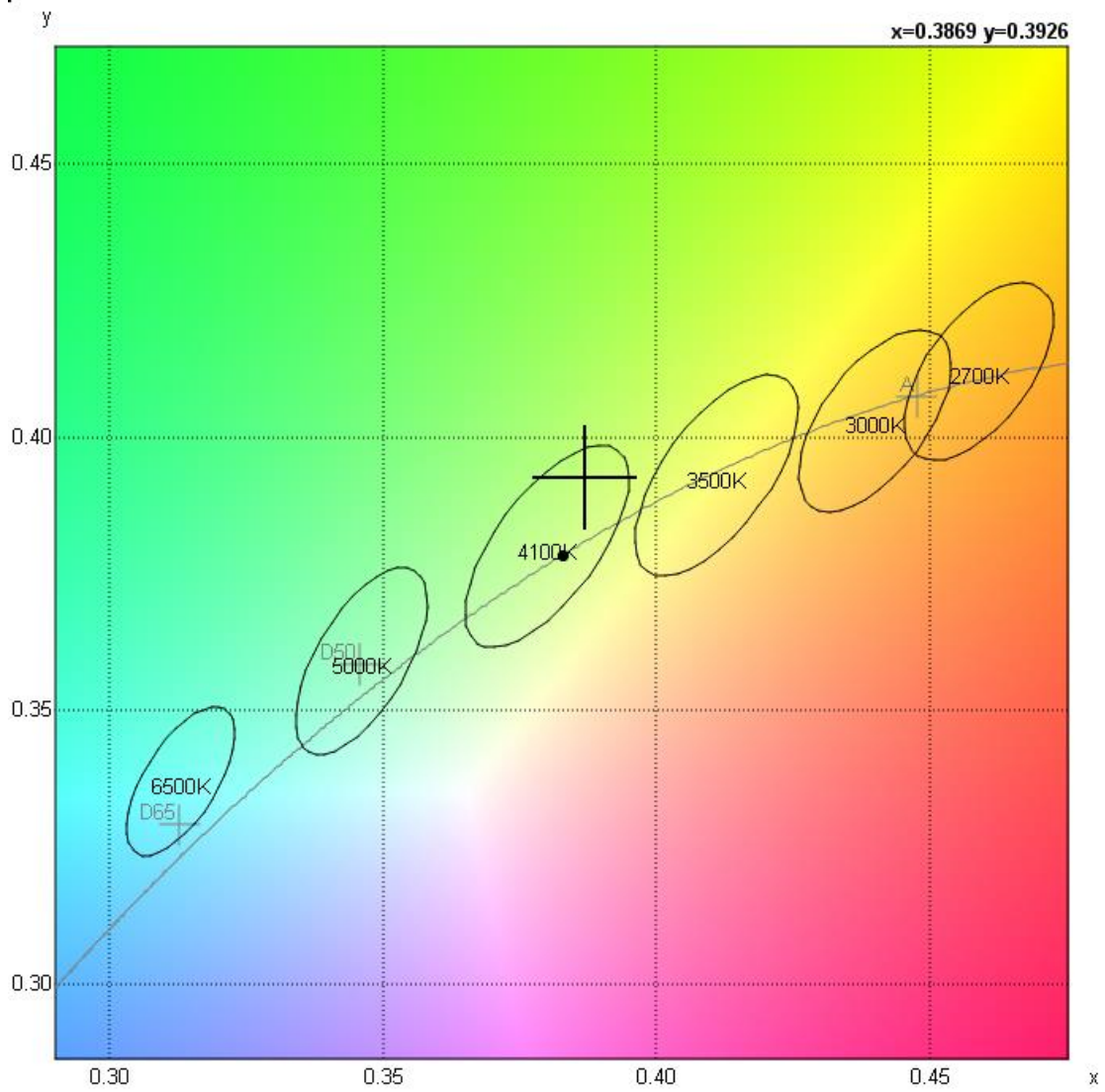
Total flux (utilized luminaire flux)	<i>464,40 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>-0,00 %</i>
Maximum luminous intensity	<i>159,36 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>73,83 lm/W</i>

**Light intensity distribution diagram**

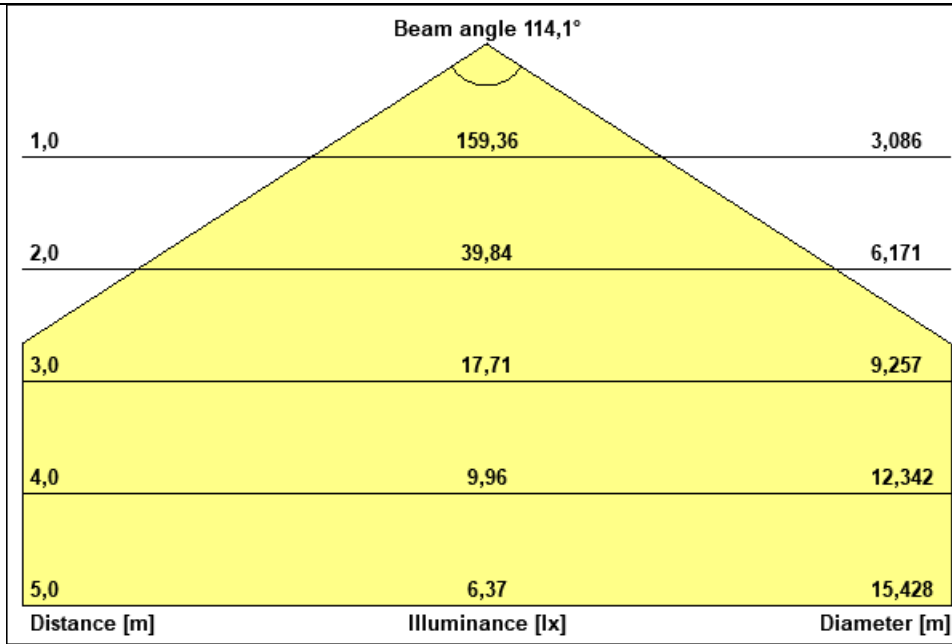


**CIE 1931 diagram**

x 0,3869  
 y 0,3926  
 Angular Colour Uniformity 0,0004  
 Binning 4100K



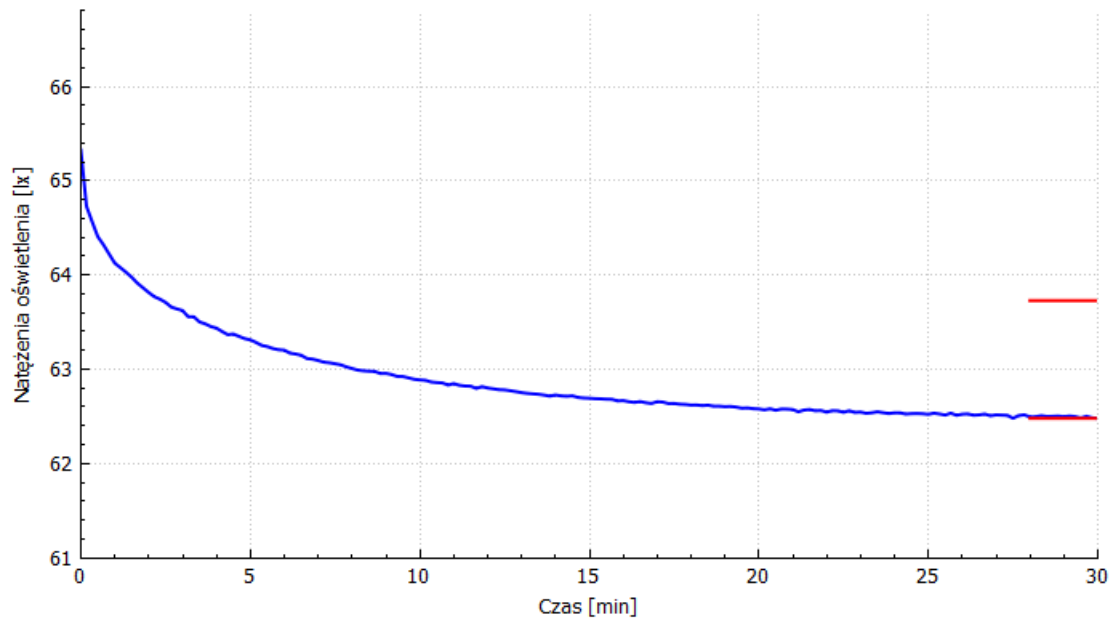
**Beam cone**



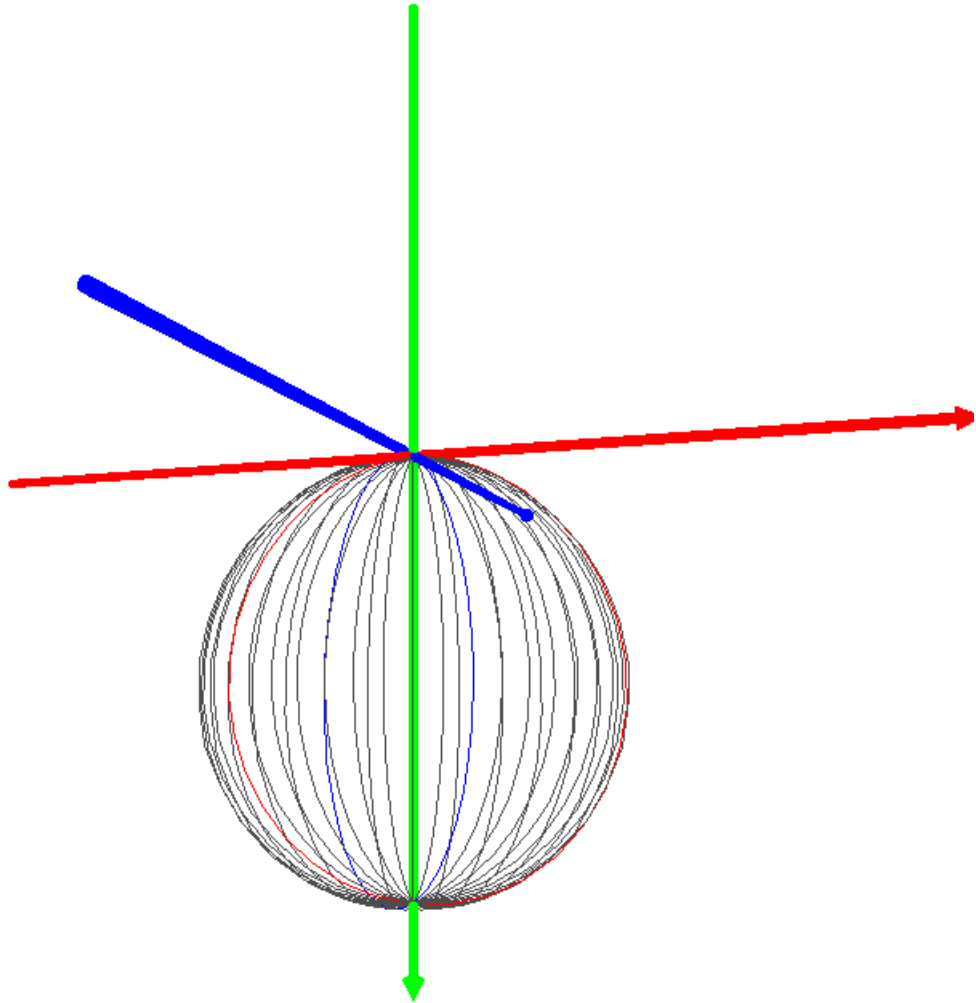
Distance [m]	Max illumince [lx]	Diameter [m]
1	159,3570	3,086
2	39,8393	6,171
3	17,7063	9,257
4	9,9598	12,342
5	6,3743	15,428

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	114,1°	5,0°	-57,1°	57,1°
0-180°	114,3°	5,0°	-57,1°	57,1°
90-270°	114,0°	5,0°	-57,0°	57,0°

## Stabilization



### 3D Chart

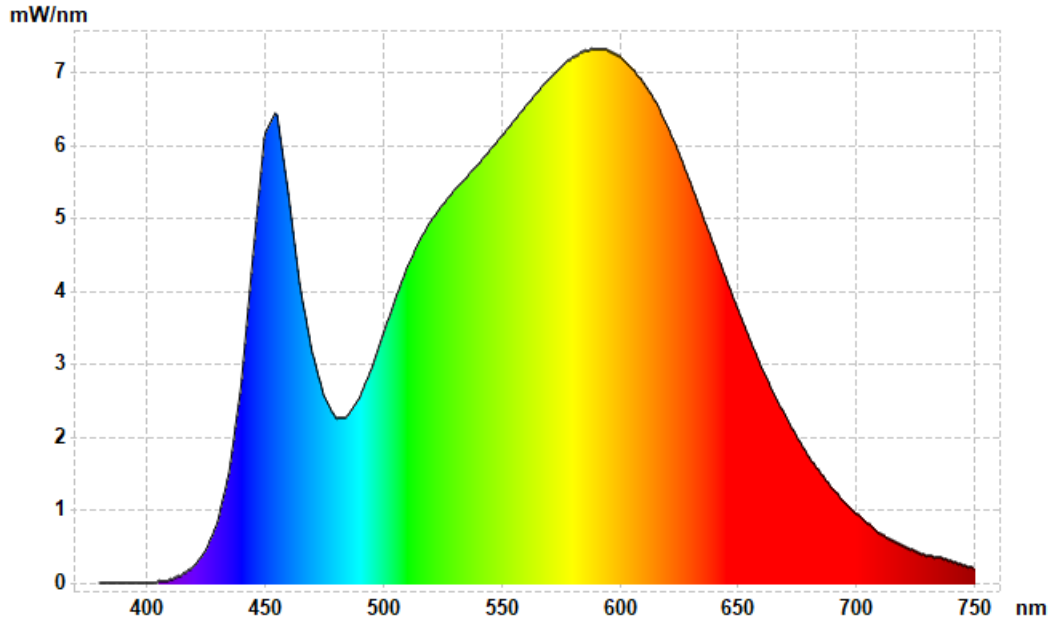


Legend

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



## Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3869	x	0,3943	CCT	3947
y	0,3926	y	0,3891	Chromaticity Error	0,006
Flux	464,40 lm	u'	0,2292	Color Peak	590,55
		v'	0,5089	Color Peak Value	7,31
		L	100,00	Color Dominant	576,8
u'	0,2231	a	11,23	Luminous Intensity	0,00
v'	0,5093	b	39,29	Purity	0,339
L	100,00	X	460,30	Radiometric	1,2622
a	6,05	Y	454,20	PAR	-
b	39,59	Z	252,86	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	81,2	Ra	81,2	Mivis	2,1
R1	78,4	R8	62,1	Miuv	4,0
R2	87,5	R9	0,9	Binning	
R3	95,2	R10	70,6	Binning	4100K
R4	79,0	R11	76,9	Brightness	
R5	78,1	R12	56,3		
R6	82,9	R13	80,5		
R7	86,4	R14	97,4		