

GL GONIOSPECTROMETER  
**Lighting Research & Measurement Center**

### Report Wizard Sample Description Lines

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Client name: *LED line®*  
Model name: *UFO T 100W 13000LM 4000K 60°*  
Item No: *249907*  
Serial No.: *38410*  
Made by: *Radosław Kośnik*

### Eulumdat Fields

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Company: *LED line®*  
Report number: *B150*  
LuminaireName: *UFO T 100W 13000LM 4000K 60°*  
LuminaireNumber: *249907*  
FileName: *B150\_249907\_38410\_G\_20190121\_R\_P*  
Date: *2019-01-21*

### Dimensions of luminaire

Length: *200 mm*  
Width: *0 mm*  
Height: *250 mm*

### Dimensions of luminous area

Length: *145 mm*  
Width: *0 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: 12816,40 lm  
 Color temperatur: 3954.27 K  
 Color rendering index: 81,27  
 Wattage including ballast: 98,50 W

**Utilization factors:**

k = 0.60 0,491  
 k = 0.80 0,569  
 k = 1.00 0,638  
 k = 1.20 0,699  
 k = 1.50 0,743  
 k = 2.00 0,812  
 k = 2.50 0,839  
 k = 3.00 0,861  
 k = 4.00 0,892  
 k = 5.00 0,911

**Electrical parameters**

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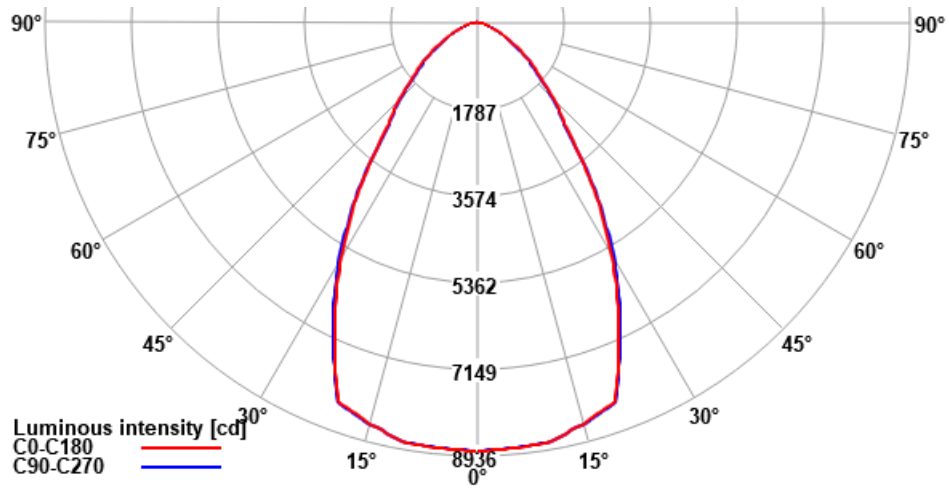
*U* = 230,065 V  
*I* = 0,438 A  
*P* = 98,496 W  
 Power factor = 0,976  
  
 Power apparent = 0,000 VA  
 Power Reactive = 0,000 var  
 Frequency Voltage = 0,000 Hz  
 THD = 0,000 %

Temperature = 23.8 C

## Goniometric measurement results

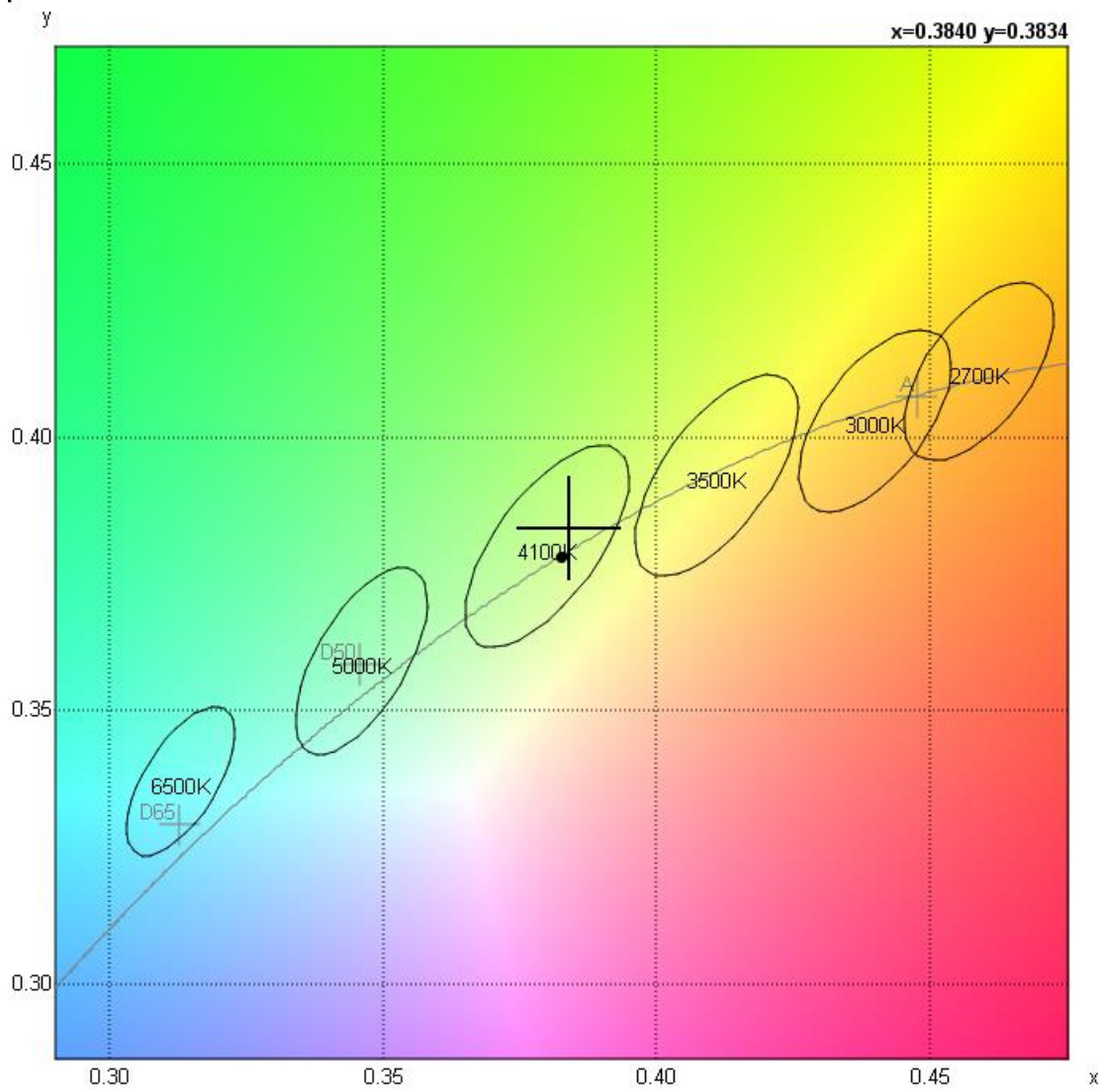
Total flux (utilized luminaire flux)	<i>12816,40 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>0,00 %</i>
Maximum luminous intensity	<i>8847,51 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>130,12 lm/W</i>

**Light intensity distribution diagram**

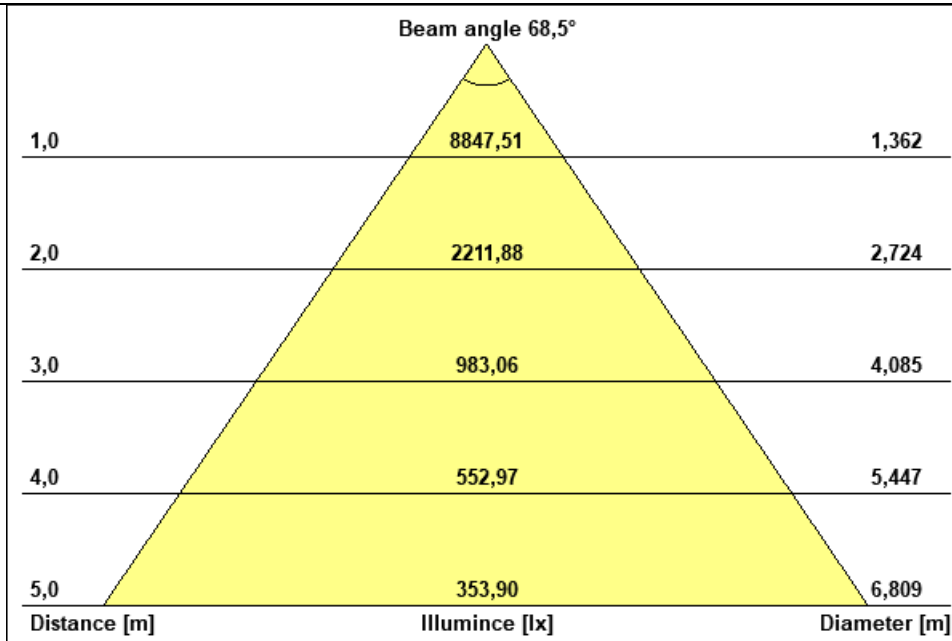


**CIE 1931 diagram**

x 0,3840  
 y 0,3834  
 Angular Colour Uniformity 0,0000  
 Binning 4100K



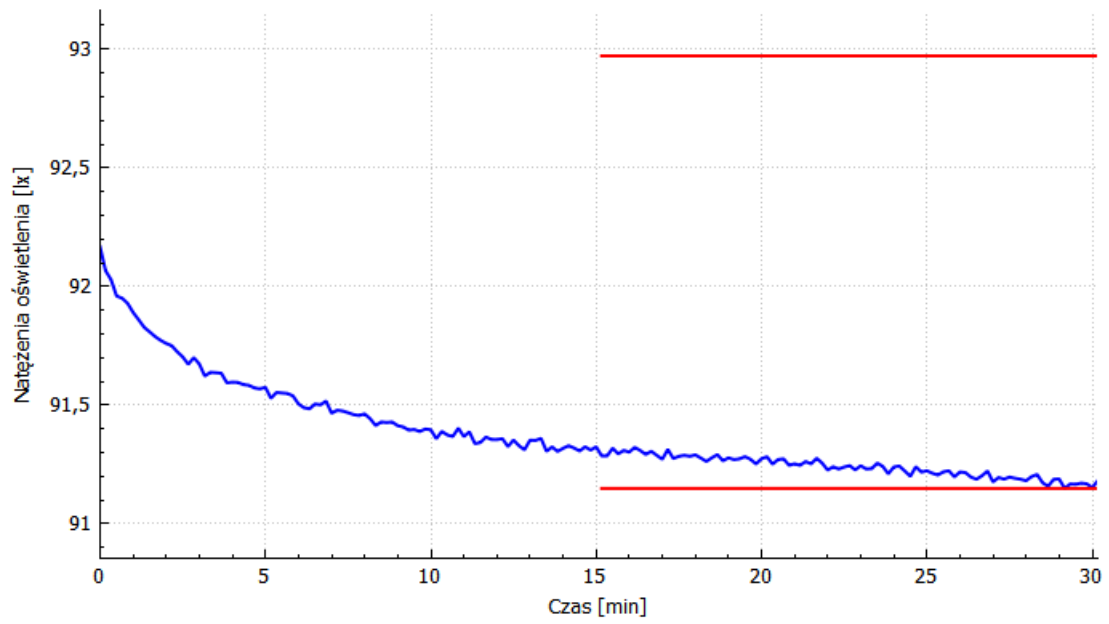
**Beam cone**



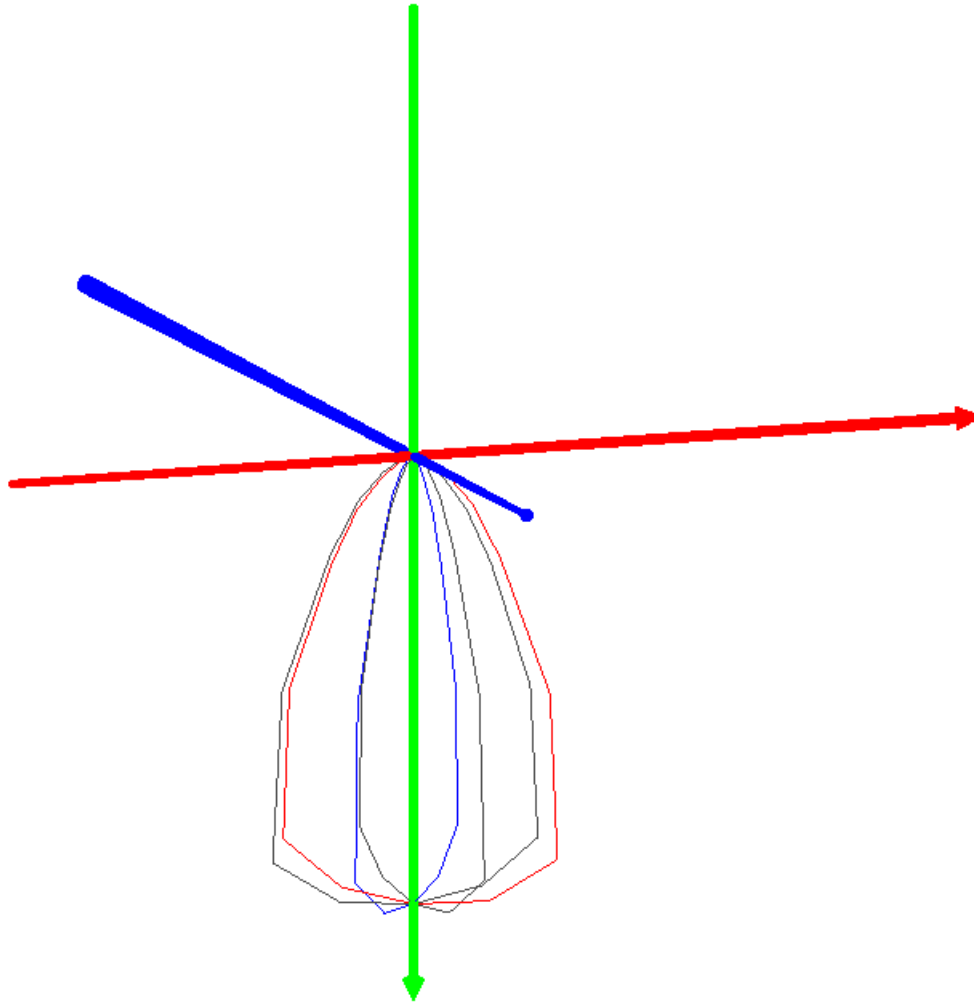
Distance [m]	Max illuminance [lx]	Diameter [m]
1	8847,5070	1,362
2	2211,8767	2,724
3	983,0563	4,085
4	552,9692	5,447
5	353,9003	6,809

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	68,5°	0,0°	-34,3°	34,3°
0-180°	68,6°	0,0°	-34,3°	34,3°
90-270°	69,0°	0,0°	-34,5°	34,5°

## Stabilization



### 3D Chart

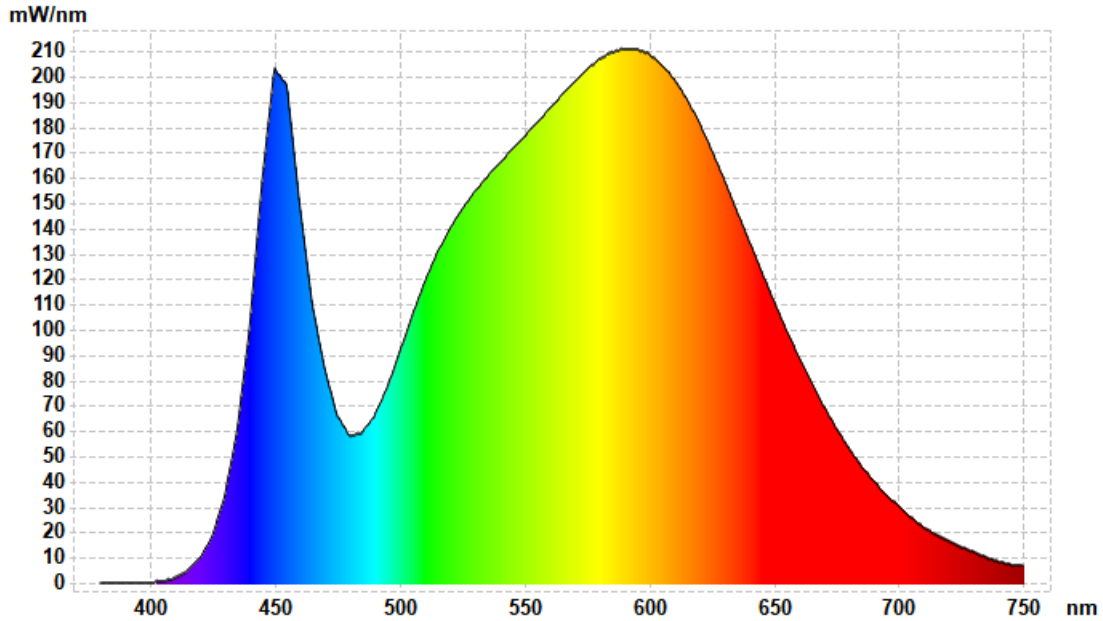


Legend

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



## Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3840	x	0,3907	CCT	3954
y	0,3834	y	0,3791	Chromaticity Error	0,003
Flux	12816,40 lm	u'	0,2309	Color Peak	594,00
		v'	0,5041	Color Peak Value	211,12
		L	100,00	Color Dominant	578,2
u'	0,2248	a	14,12	Luminous Intensity	0,00
v'	0,5050	b	34,57	Purity	
L	100,00	X	13441,69	Radiometric	36,9433
a	8,81	Y	13041,54	PAR	-
b	35,41	Z	7920,05	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	81,3	Ra	81,3	Mivis	1,9
R1	79,2	R8	63,7	Miuv	4,3
R2	87,2	R9	4,8	Binning	
R3	93,2	R10	69,2	Binning	4100K
R4	79,9	R11	77,6	Brightness	
R5	78,8	R12	57,0		
R6	81,9	R13	81,0		
R7	86,4	R14	96,2		