

GL GONIOSPECTROMETER  
**Lighting Research & Measurement Center**

**Report Wizard Sample Description Lines**

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Client name: *LED line®*  
Model name: *UFO T 100W 15000LM 4000K 90° DIM*  
Item No: *244223*  
Serial No.: *12503*  
Made by: *Radosław Kośnik*

**Eulumdat Fields**

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Company: *LEDline®*  
Report number: *B802*  
LuminaireName: *UFO T 100W 15000LM 4000K 90°DIM*  
LuminaireNumber: *244223*  
FileName: *B802\_244223\_12503\_G\_20190902\_R\_P*  
Date: *2019-09-02*

**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:	15081,10 lm
Color temperatur:	3971.97 K
Color rendering index:	74,01
Wattage including ballast:	99,42 W

**Utilization factors:**

k = 0.60	0,442
k = 0.80	0,529
k = 1.00	0,605
k = 1.20	0,672
k = 1.50	0,722
k = 2.00	0,797
k = 2.50	0,829
k = 3.00	0,854
k = 4.00	0,887
k = 5.00	0,908

**Electrical parameters**

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<i>U</i>	= 230,105 V
<i>I</i>	= 0,440 A
<i>P</i>	= 99,418 W
<i>Power factor</i>	= 0,982

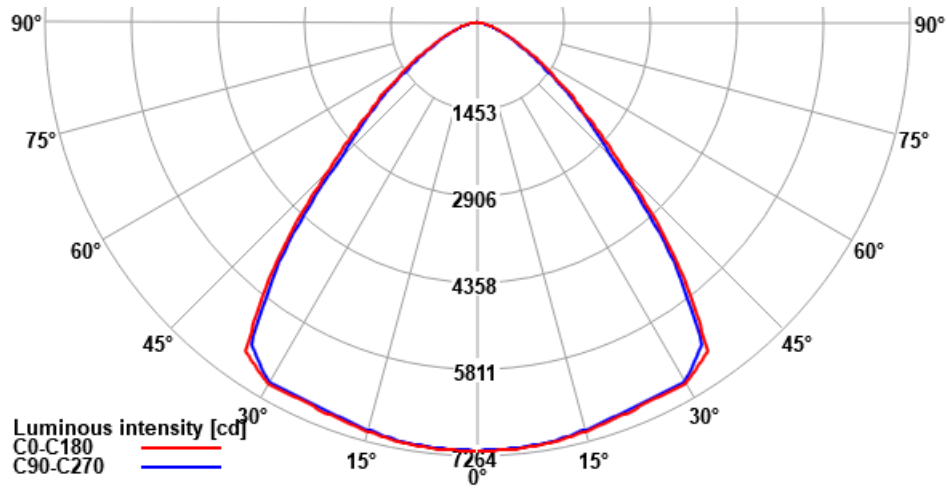
<i>Power apparent</i>	= 0,000 VA
<i>Power Reactive</i>	= 0,000 var
<i>Frequency Voltage</i>	= 0,000 Hz
<i>THD</i>	= 0,000 %

*Temperature* = 25.9 C

## Goniometric measurement results

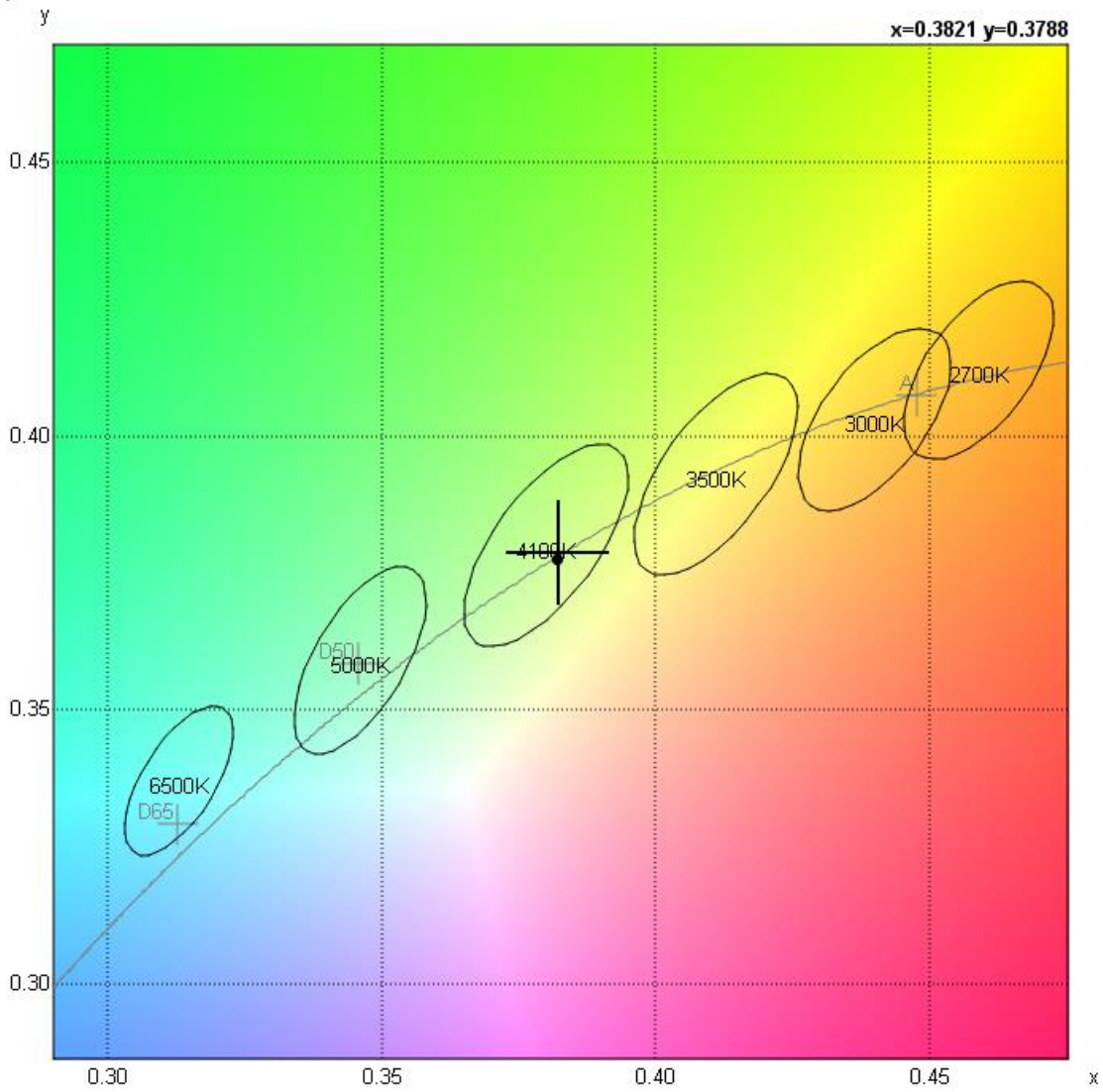
Total flux (utilized luminaire flux)	<i>15081,10 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>-0,00 %</i>
Maximum luminous intensity	<i>7191,87 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>151,69 lm/W</i>

**Light intensity distribution diagram**

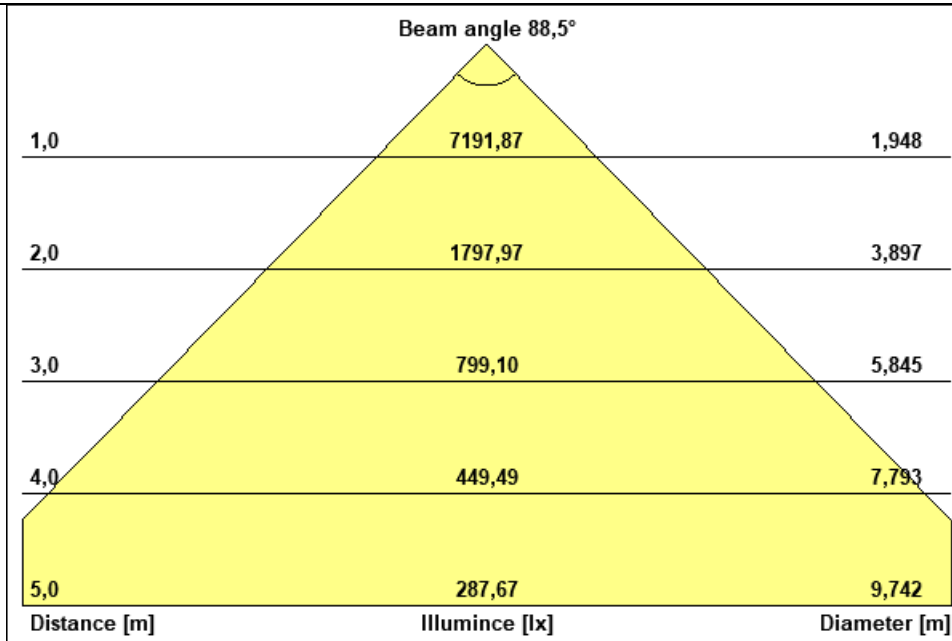


**CIE 1931 diagram**

x 0,3821  
 y 0,3788  
 Angular Colour Uniformity 0,0000  
 Binning 4100K



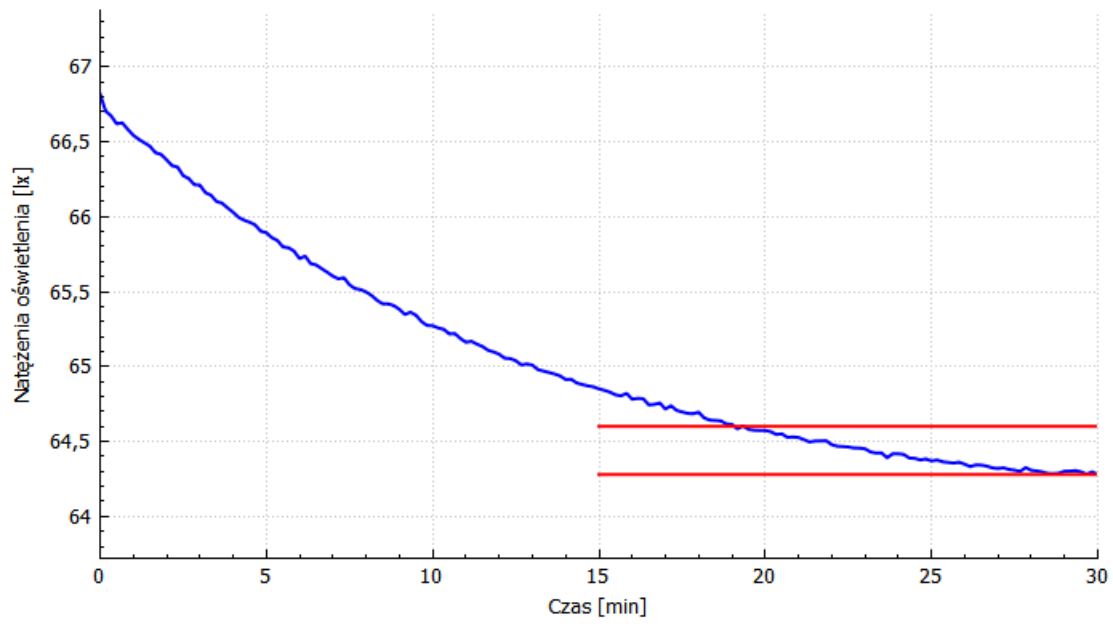
**Beam cone**



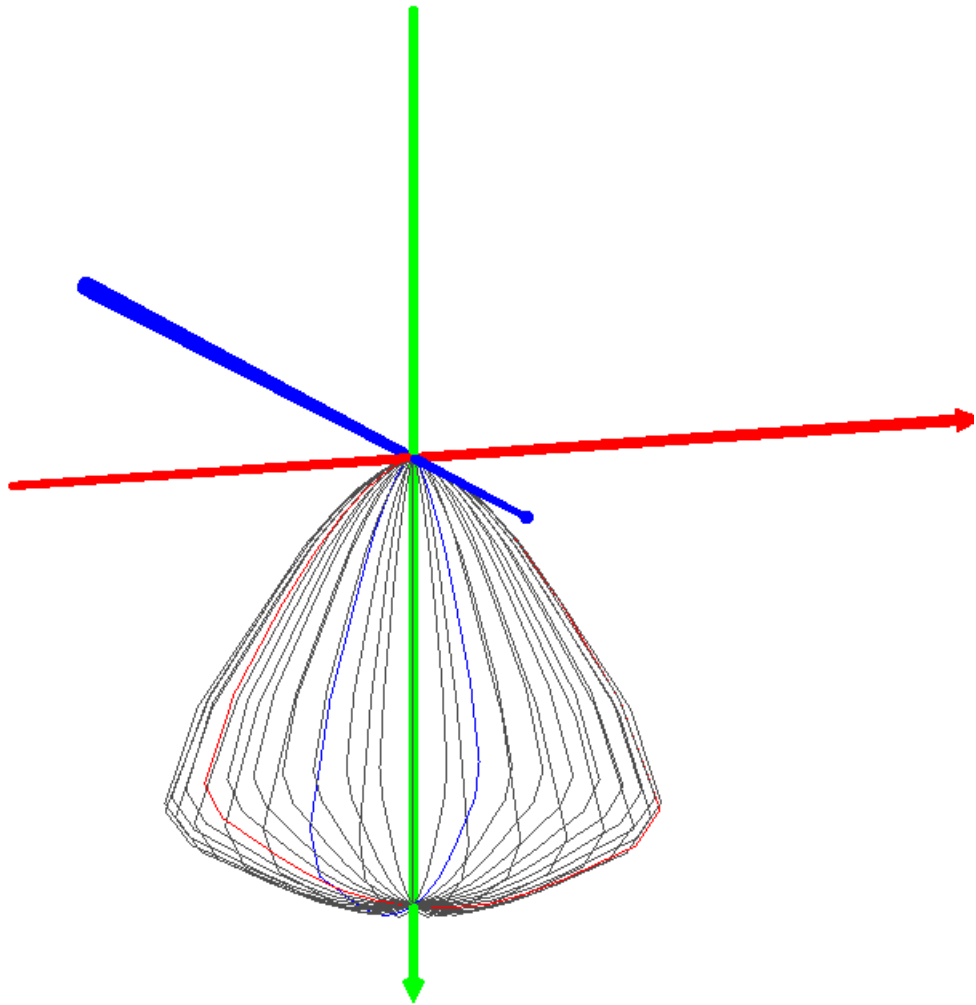
Distance [m]	Max illuminance [lx]	Diameter [m]
1	7191,8750	1,948
2	1797,9687	3,897
3	799,0972	5,845
4	449,4922	7,793
5	287,6750	9,742

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	88,5°	5,0°	-44,2°	44,2°
0-180°	89,3°	5,0°	-44,7°	44,7°
90-270°	88,0°	5,0°	-44,0°	44,0°




## Stabilization



### 3D Chart

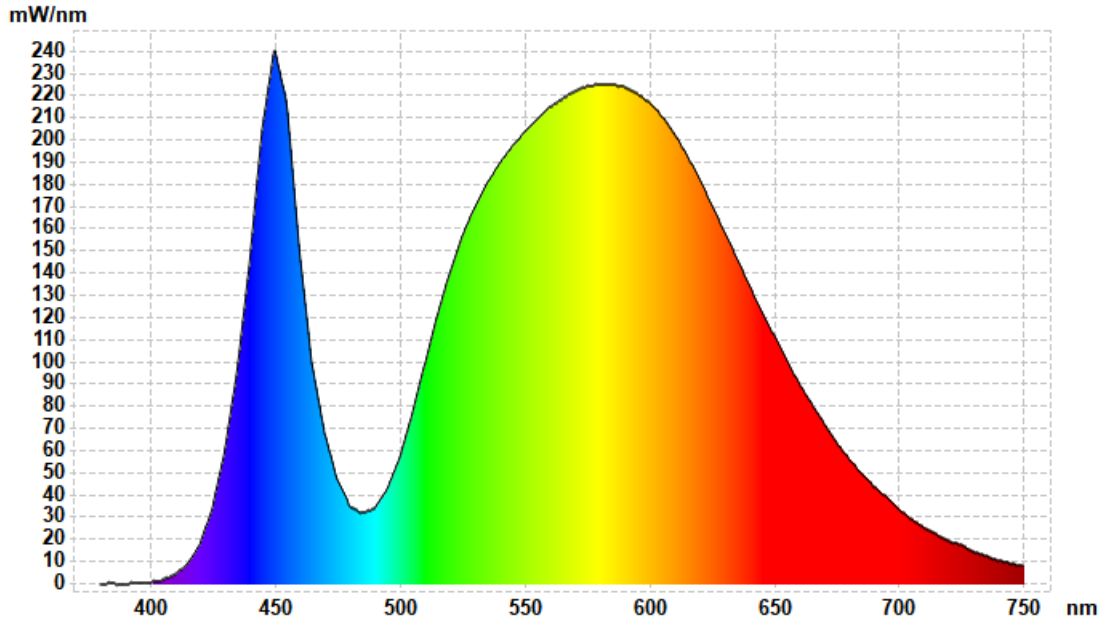


Legend

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



## Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3821	x	0,3893	CCT	3972
y	0,3788	y	0,3706	Chromaticity Error	0,006
Flux	15081,10 lm	u'	0,2335	Color Peak	450,92
		v'	0,5001	Color Peak Value	242,66
		L	100,00	Color Dominant	578,9
u'	0,2253	a	17,38	Luminous Intensity	0,00
v'	0,5027	b	30,94	Purity	
L	100,00	X	14430,24	Radiometric	38,5874
a	9,99	Y	13737,42	PAR	-
b	33,23	Z	8903,31	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	74,0	Ra	74,0	Mivis	2,0
R1	72,0	R8	58,9	Miuv	4,7
R2	79,8	R9	-12,1	Binning	
R3	84,3	R10	50,2	Binning	4100K
R4	73,0	R11	67,4	Brightness	
R5	70,6	R12	40,9		
R6	70,1	R13	73,0		
R7	83,4	R14	90,7		