

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 60° DIM*  
Item No: *244018*  
Serial No.: *12503*  
Made by: *Radosław Kośnik*

**Eulumdat Fields**

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Company: *LEDline®*  
Report number: *B803*  
LuminaireName: *UFO T 100W 15000LM 4000K 60° DIM*  
LuminaireNumber: *244018*  
FileName: *B803\_244018\_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:	14947,90 lm
Color temperatur:	3982.19 K
Color rendering index:	74,11
Wattage including ballast:	99,46 W

**Utilization factors:**

k = 0.60	0,498
k = 0.80	0,574
k = 1.00	0,643
k = 1.20	0,704
k = 1.50	0,748
k = 2.00	0,818
k = 2.50	0,846
k = 3.00	0,869
k = 4.00	0,901
k = 5.00	0,921

**Electrical parameters**

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<i>U</i>	= 230,044 V
<i>I</i>	= 0,439 A
<i>P</i>	= 99,460 W
<i>Power factor</i>	= 0,984

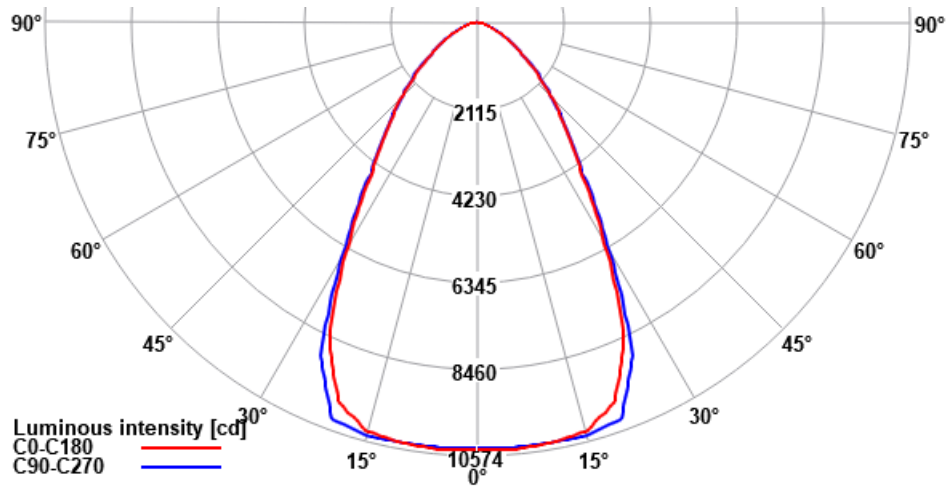
<i>Power apparent</i>	= 0,000 VA
<i>Power Reactive</i>	= 0,000 var
<i>Frequency Voltage</i>	= 0,000 Hz
<i>THD</i>	= 0,000 %

*Temperature* = 25.9 C

## Goniometric measurement results

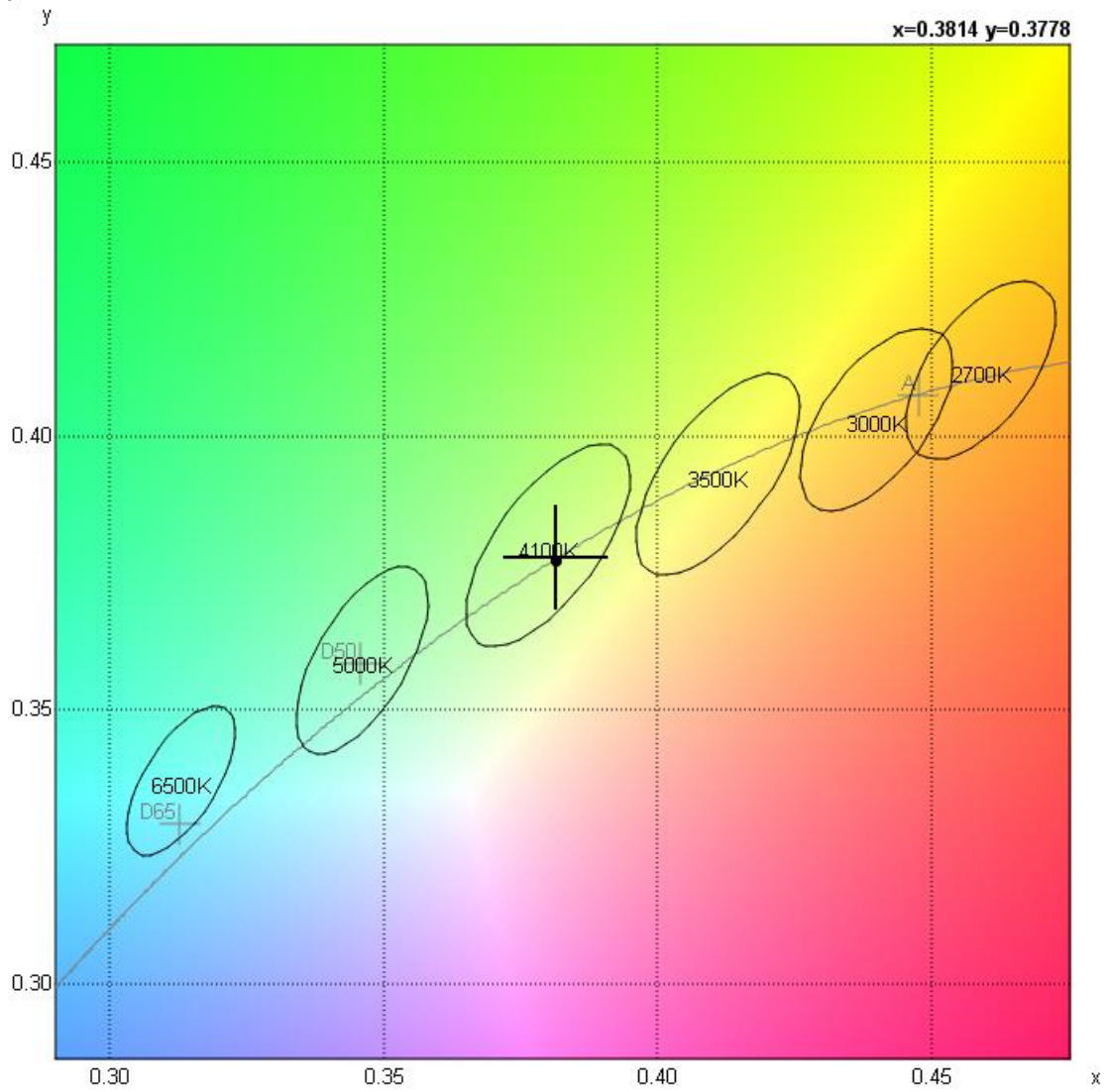
Total flux (utilized luminaire flux)	<i>14947,90 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>0,00 %</i>
Maximum luminous intensity	<i>10469,79 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>150,29 lm/W</i>

**Light intensity distribution diagram**

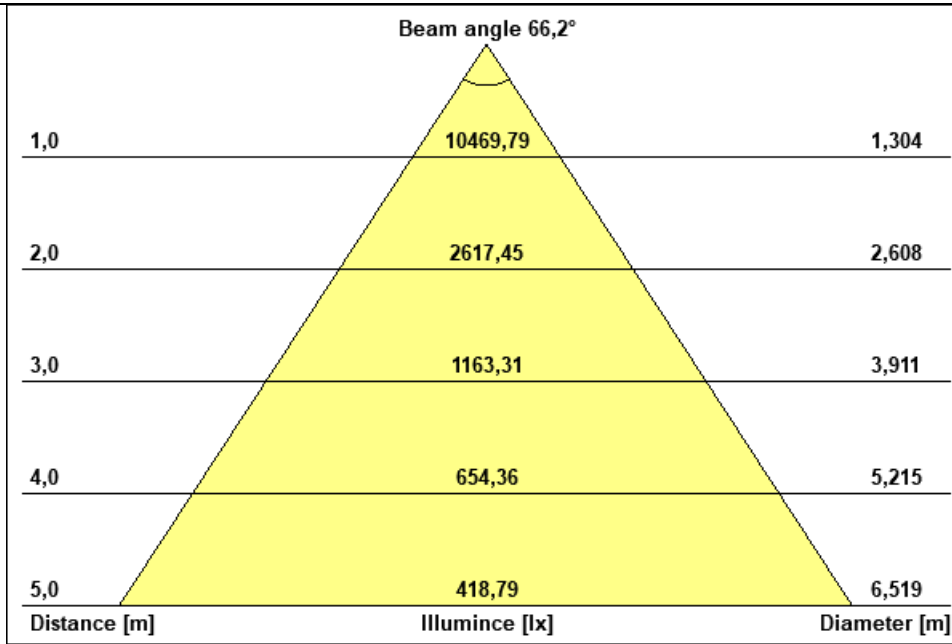


**CIE 1931 diagram**

x 0,3814  
 y 0,3778  
 Angular Colour Uniformity 0,0000  
 Binning 4100K



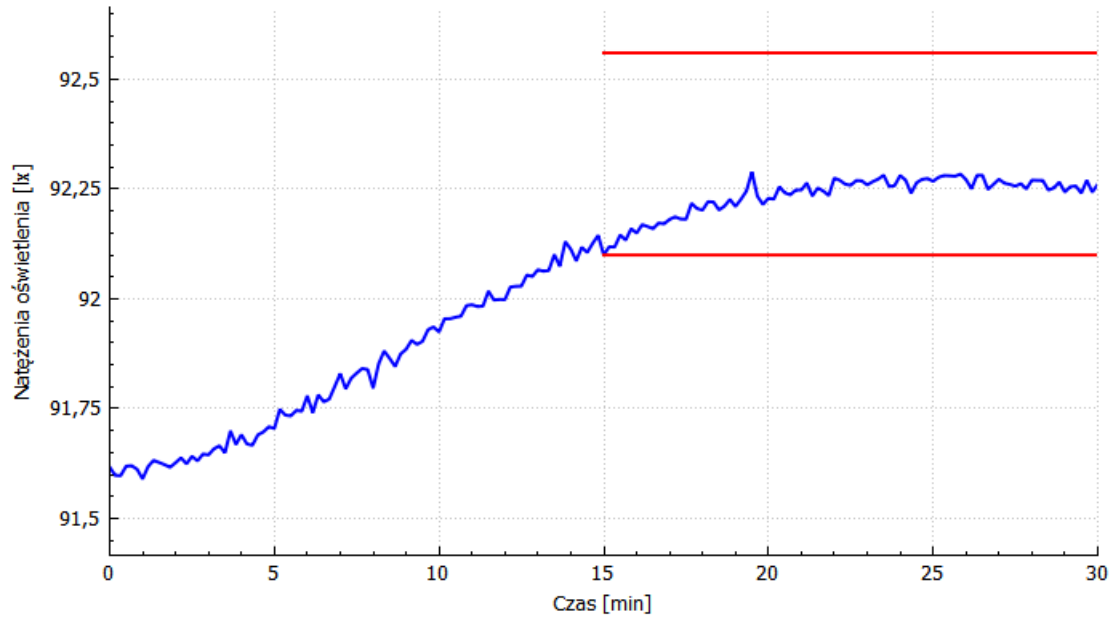
**Beam cone**



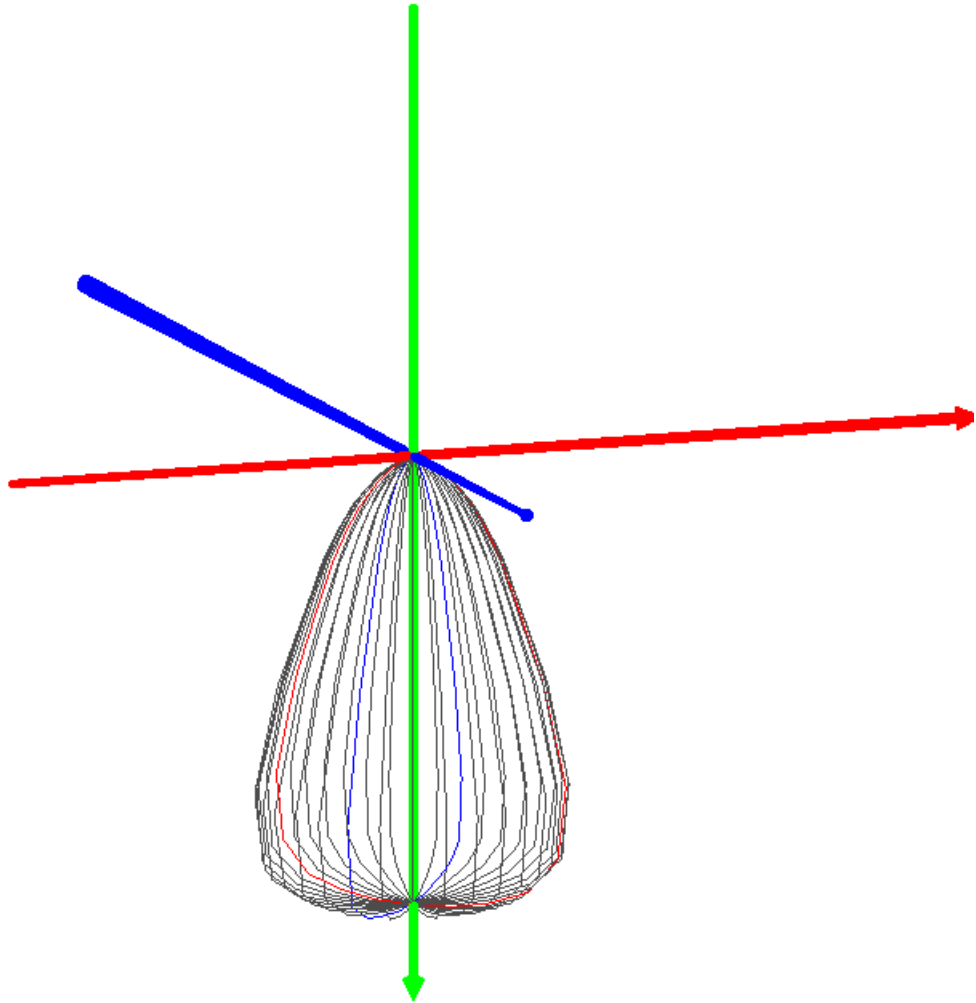
Distance [m]	Max illuminance [lx]	Diameter [m]
1	10469,7932	1,304
2	2617,4483	2,608
3	1163,3104	3,911
4	654,3621	5,215
5	418,7917	6,519

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	66,2°	6,1°	-33,1°	33,1°
0-180°	65,6°	5,0°	-32,8°	32,8°
90-270°	66,4°	15,0°	-33,2°	33,2°

## Stabilization



### 3D Chart

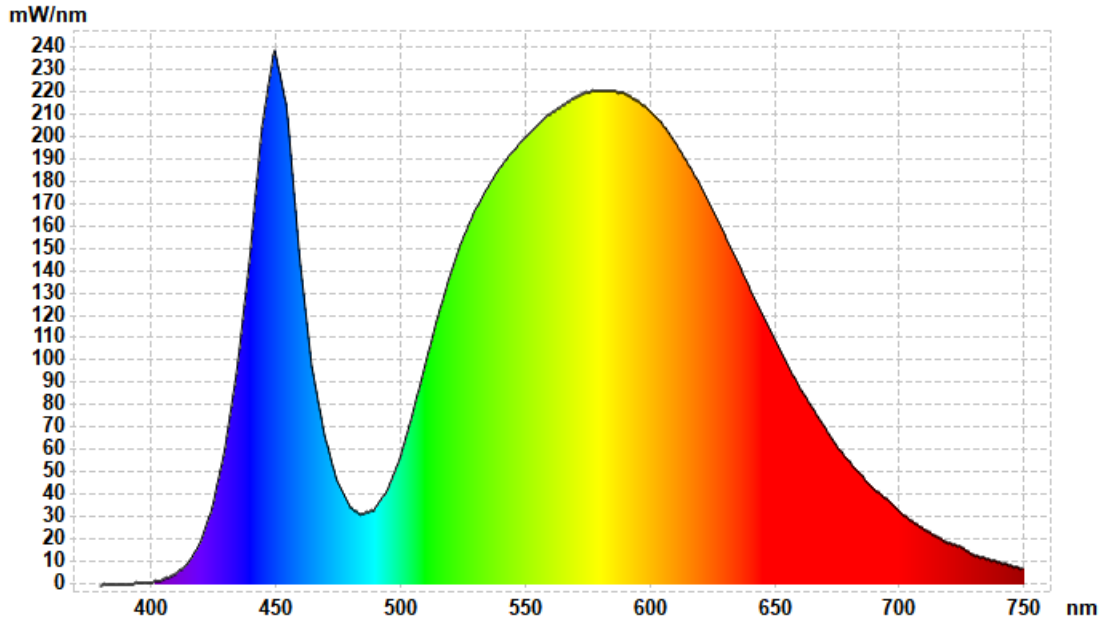


Legend

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



## Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3814	x	0,3885	CCT	3982
y	0,3778	y	0,3695	Chromaticity Error	0,006
Flux	14947,90 lm	u'	0,2334	Color Peak	450,92
		v'	0,4996	Color Peak Value	240,27
		L	100,00	Color Dominant	579,0
u'	0,2253	a	17,53	Luminous Intensity	0,00
v'	0,5022	b	30,36	Purity	
L	100,00	X	14143,67	Radiometric	37,8021
a	10,16	Y	13452,48	PAR	-
b	32,67	Z	8809,43	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	74,1	Ra	74,1	Mivis	2,0
R1	72,2	R8	59,2	Miuv	4,7
R2	79,9	R9	-11,2	Binning	
R3	84,1	R10	50,3	Binning	4100K
R4	73,2	R11	67,6	Brightness	
R5	70,8	R12	41,2		
R6	70,1	R13	73,2		
R7	83,4	R14	90,6		