

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 120° DIM*  
Item No: *244339*  
Serial No.: *12503*  
Made by: *Radosław Kośnik*

**Eulumdat Fields**

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Company: *LEDline®*  
Report number: *B801*  
LuminaireName: *UFO T 100W 15000LM 4000K 120° DIM*  
LuminaireNumber: *244339*  
FileName: *B801\_244339\_12503\_G\_20190830\_R\_P*  
Date: *2019-08-30*

**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: 15095,60 lm  
 Color temperatur: 3988.87 K  
 Color rendering index: 74,08  
 Wattage including ballast: 99,54 W

**Utilization factors:**

k = 0.60 0,309  
 k = 0.80 0,408  
 k = 1.00 0,492  
 k = 1.20 0,572  
 k = 1.50 0,632  
 k = 2.00 0,720  
 k = 2.50 0,765  
 k = 3.00 0,799  
 k = 4.00 0,844  
 k = 5.00 0,870

**Electrical parameters**

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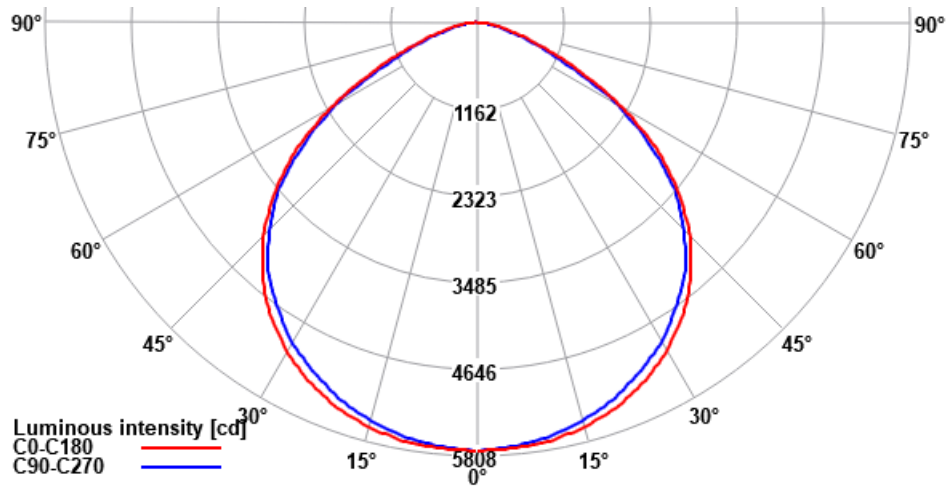
*U* = 230,051 V  
*I* = 0,440 A  
*P* = 99,540 W  
 Power factor = 0,984  
  
 Power apparent = 0,000 VA  
 Power Reactive = 0,000 var  
 Frequency Voltage = 0,000 Hz  
 THD = 0,000 %

Temperature = 25.9 C

## Goniometric measurement results

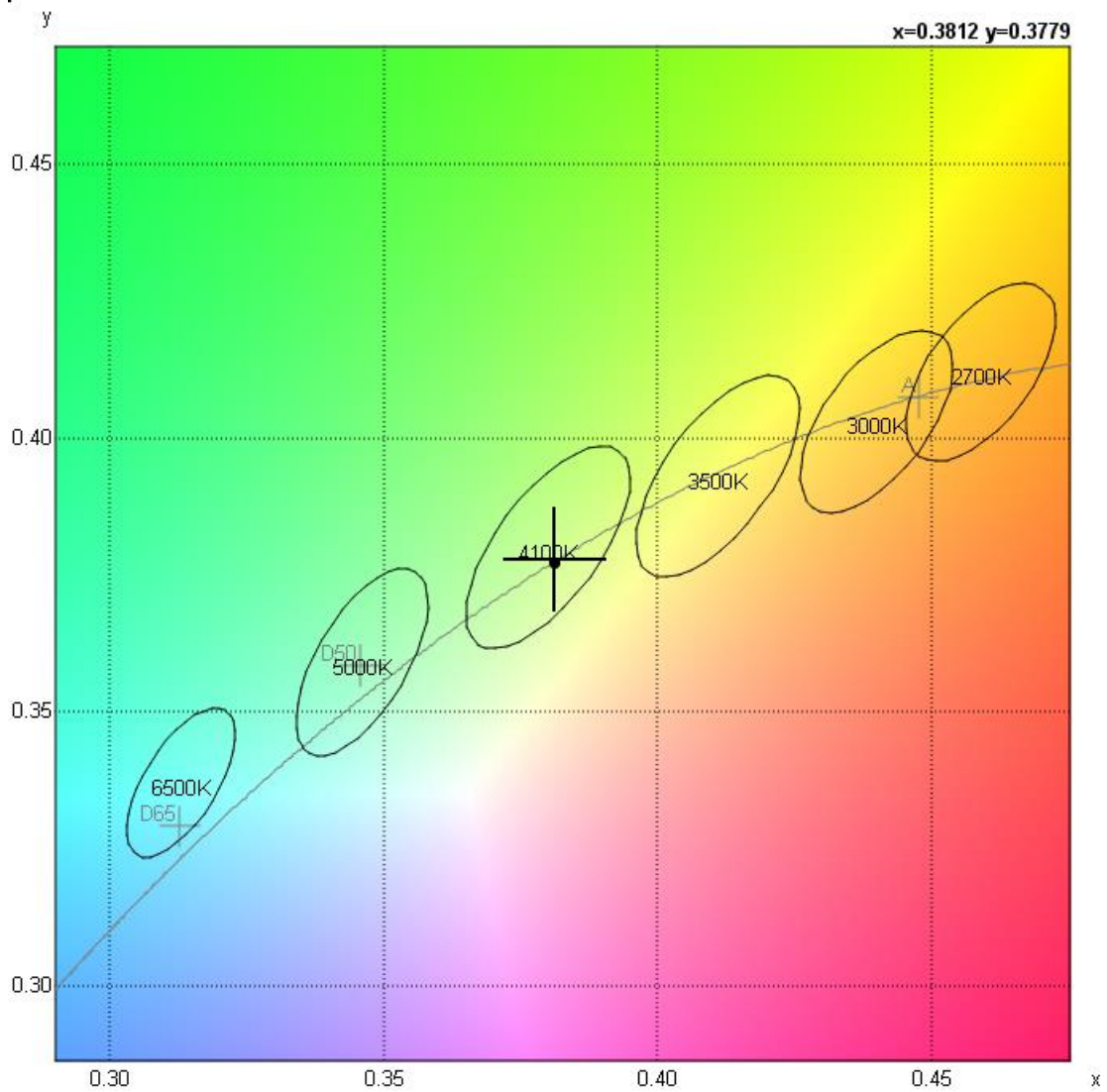
Total flux (utilized luminaire flux)	<i>15095,60 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>-0,00 %</i>
Maximum luminous intensity	<i>5751,33 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>151,65 lm/W</i>

**Light intensity distribution diagram**

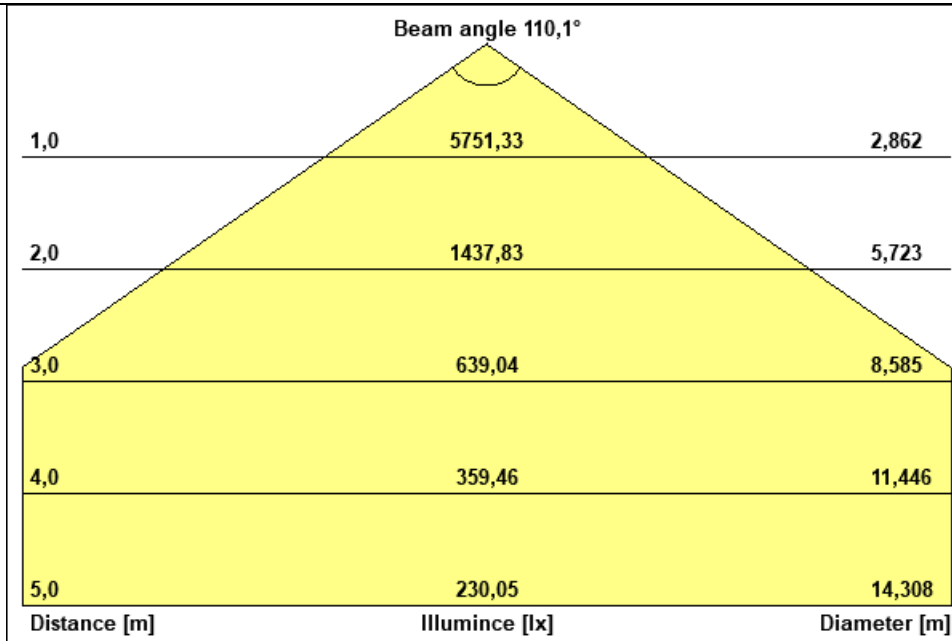


**CIE 1931 diagram**

x 0,3812  
 y 0,3779  
 Angular Colour Uniformity 0,0000  
 Binning 4100K



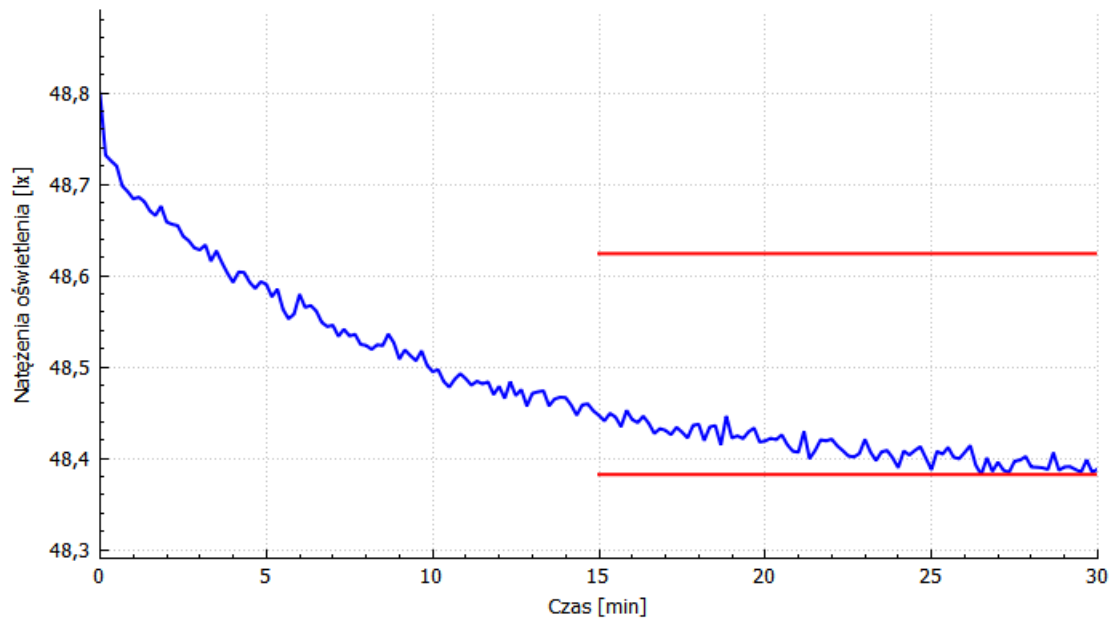
**Beam cone**



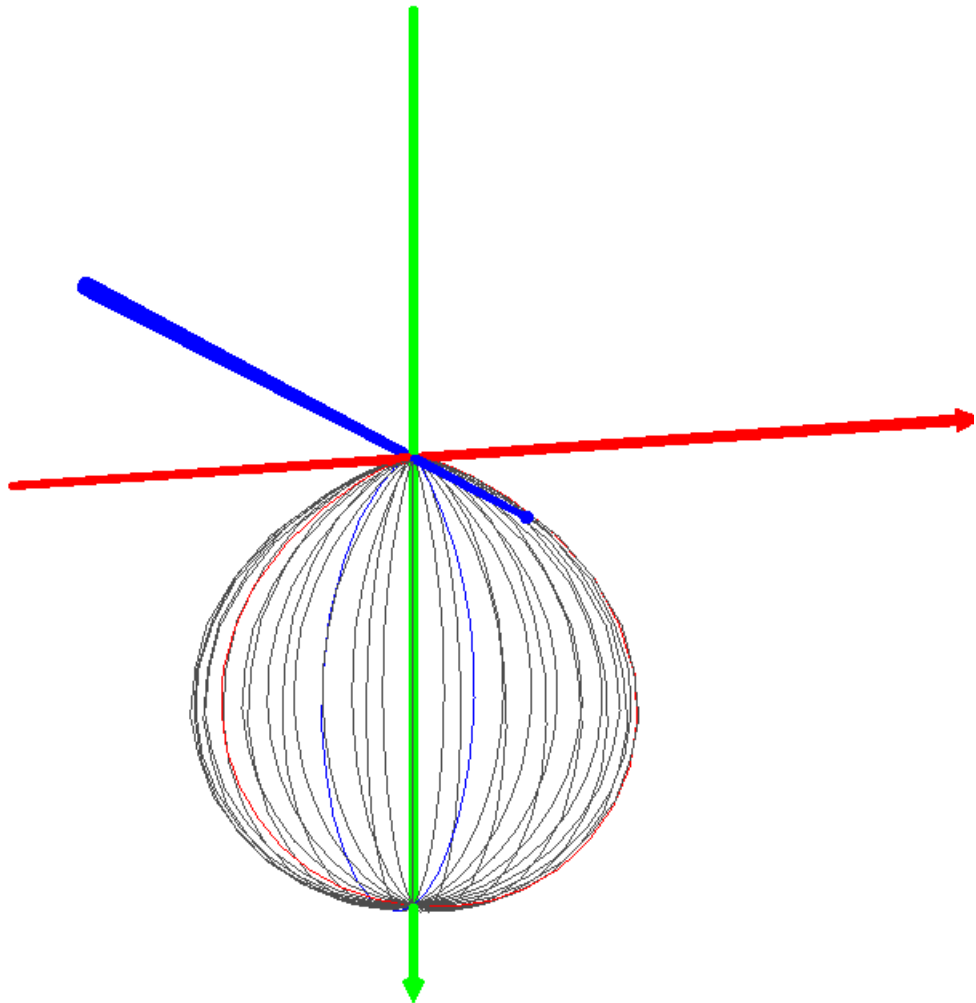
Distance [m]	Max illuminance [lx]	Diameter [m]
1	5751,3330	2,862
2	1437,8333	5,723
3	639,0370	8,585
4	359,4583	11,446
5	230,0533	14,308

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	110,1°	5,0°	-55,0°	55,0°
0-180°	111,0°	5,0°	-55,5°	55,5°
90-270°	109,3°	5,0°	-54,6°	54,6°

## Stabilization



### 3D Chart

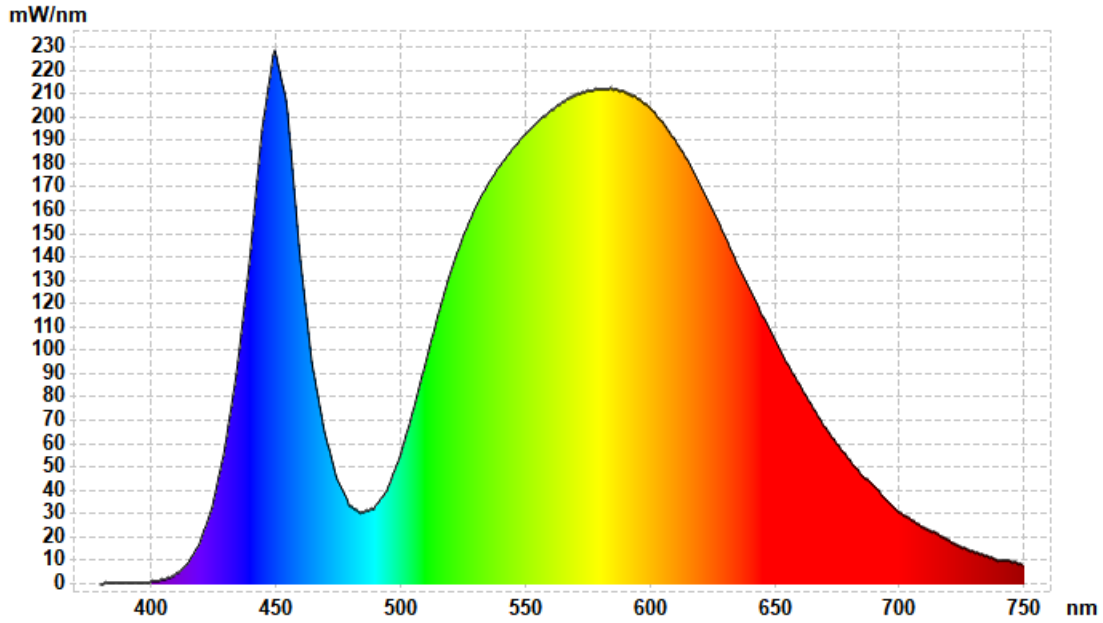


Legend

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



## Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3812	x	0,3883	CCT	3989
y	0,3779	y	0,3697	Chromaticity Error	0,006
Flux	15095,60 lm	u'	0,2332	Color Peak	450,92
		v'	0,4996	Color Peak Value	230,52
		L	100,00	Color Dominant	578,9
u'	0,2251	a	17,38	Luminous Intensity	0,00
v'	0,5022	b	30,38	Purity	
L	100,00	X	13606,53	Radiometric	36,4563
a	10,01	Y	12953,44	PAR	-
b	32,67	Z	8479,54	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	74,1	Ra	74,1	Mivis	2,0
R1	72,1	R8	59,1	Miuv	4,7
R2	79,9	R9	-11,7	Binning	
R3	84,2	R10	50,3	Binning	4100K
R4	73,1	R11	67,4	Brightness	
R5	70,7	R12	41,1		
R6	70,1	R13	73,1		
R7	83,4	R14	90,6		