

GL GONIOSPECTROMETER  
**Lighting Research & Measurement Center**

**Report Wizard Sample Description Lines**

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Client name: *LED line®*  
Model name: *Oprawa High-Bay UFO 100W 130lm/W 4000K 120° RAIDER 130*  
Item No: *470935*  
Serial No.: *00202*  
Made by: *Radosław Kośnik*

**Eulumdat Fields**

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Company: *LED line®*  
Report number: *B1425*  
LuminaireName: *Oprawa High-Bay UFO 100W 130lm/W 4000K 120° RAIDER 130*  
LuminaireNumber: *470935*  
FileName: *B1425\_470935\_00202\_G\_20200703\_R\_P*  
Date: *2020-07-03*

**Dimensions of luminaire**

Length: *250 mm*  
Width: *0 mm*  
Height: *172 mm*

**Dimensions of luminous area**

Length: *180 mm*  
Width: *0 mm*  
C0-plane *10 mm*  
C90-plane *10 mm*  
C180-plane *10 mm*  
C270-plane *10 mm*

**Lamps:**

Number of lamps: 1  
Type of lamps: 0  
Total luminous flux: 12853,20 lm  
Color temperatur: 4061.19 K  
Color rendering index: 83,78  
Wattage including ballast: 97,01 W

**Utilization factors:**

k = 0.60	0,323
k = 0.80	0,426
k = 1.00	0,512
k = 1.20	0,593
k = 1.50	0,652
k = 2.00	0,737
k = 2.50	0,780
k = 3.00	0,812
k = 4.00	0,852
k = 5.00	0,877

**Electrical parameters**

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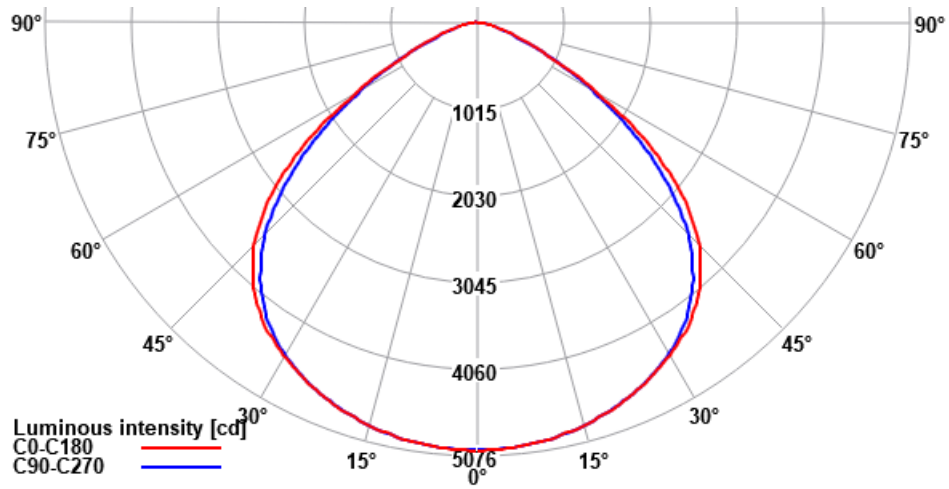
Power source: IT7321 300VA  
 $U = 230,034 V$   
 $I = 0,437 A$   
 $P = 97,006 W$   
Power factor = 0,964

Temperature = 24,5 C

## Goniometric measurement results

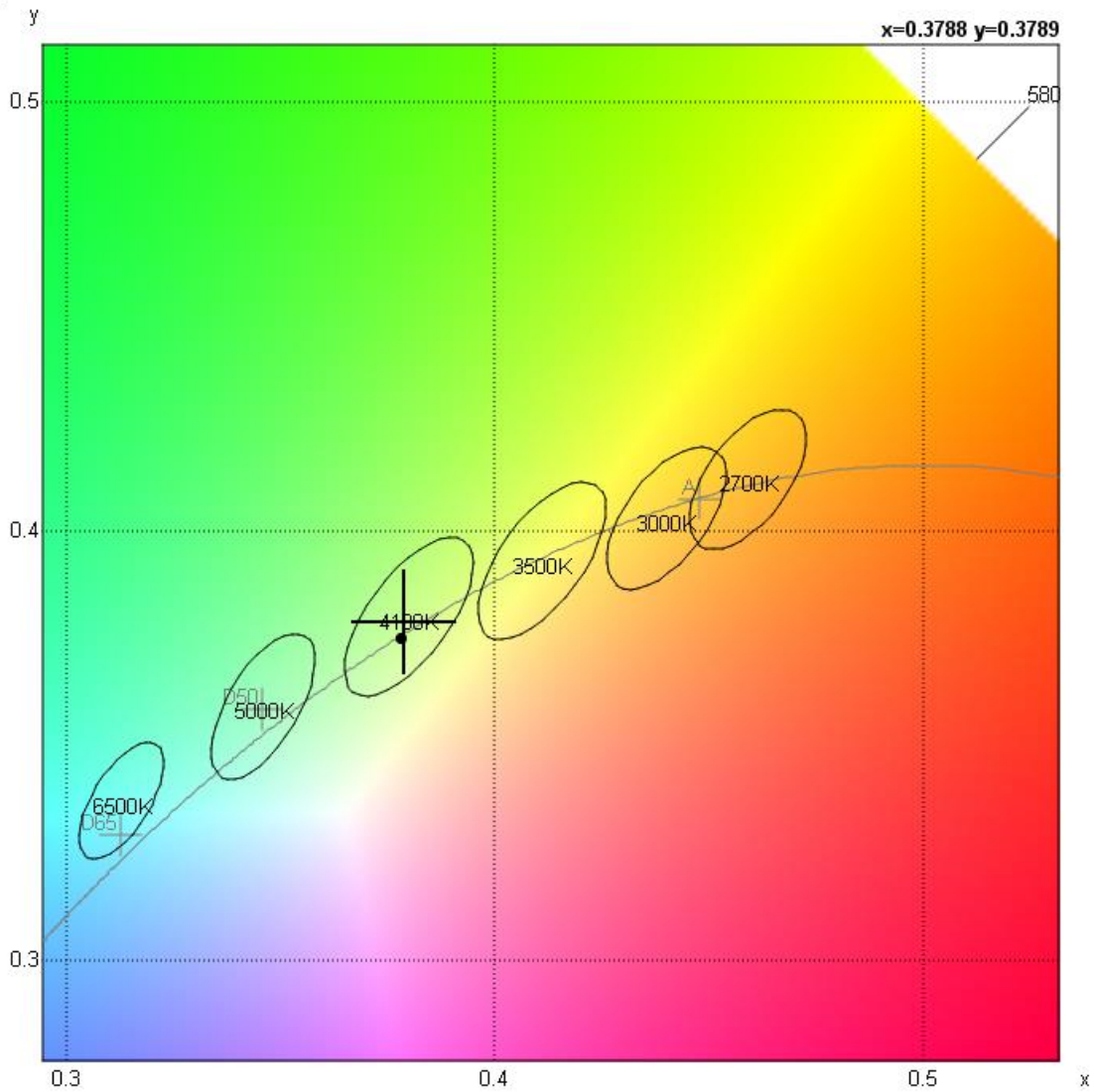
Total flux (utilized luminaire flux)	12853,20 lm
Flux in lower hemisphere	100,00 %
Flux in upper hemisphere	-0,00 %
Maximum luminous intensity	5025,27 cd
Light output ratio (LOR)	100,00 %
Luminous efficacy	132,49 lm/W

**Light intensity distribution diagram**

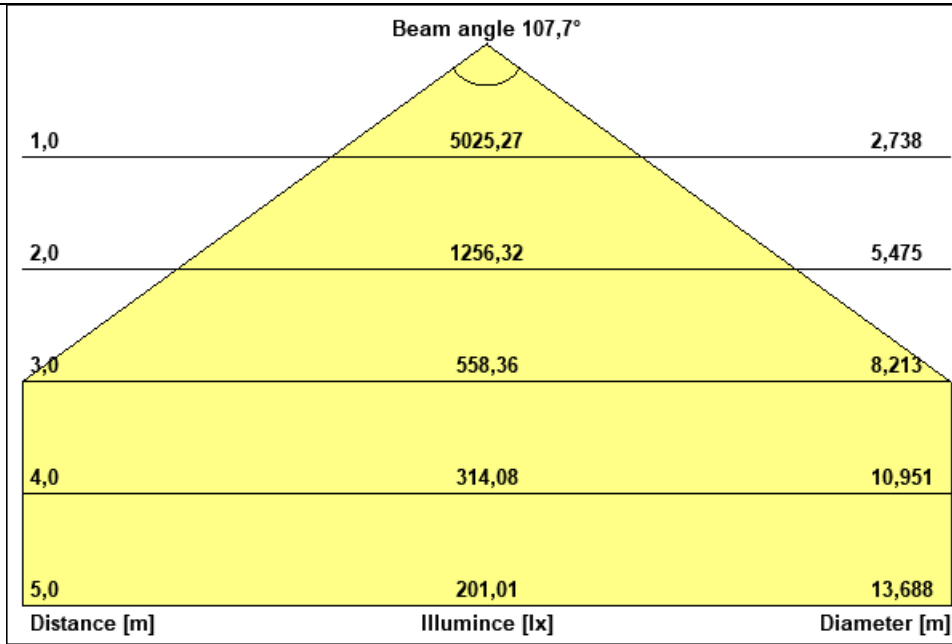


**CIE 1931 diagram**

x 0,3788  
 y 0,3789  
 Angular Colour Uniformity 0,0000  
 Binning 4100K



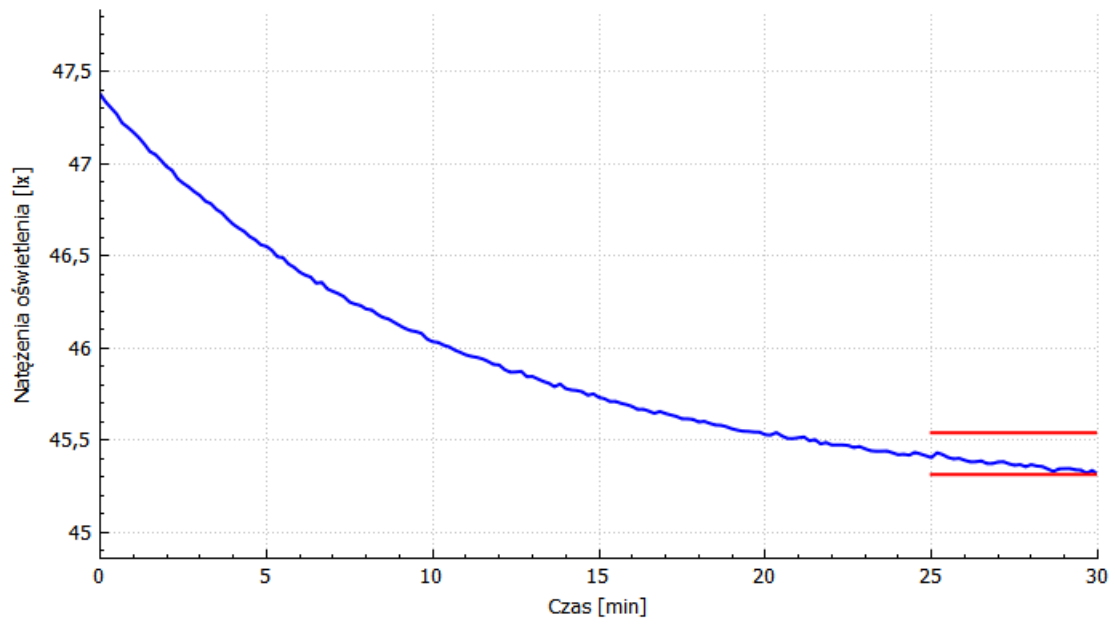
**Beam cone**



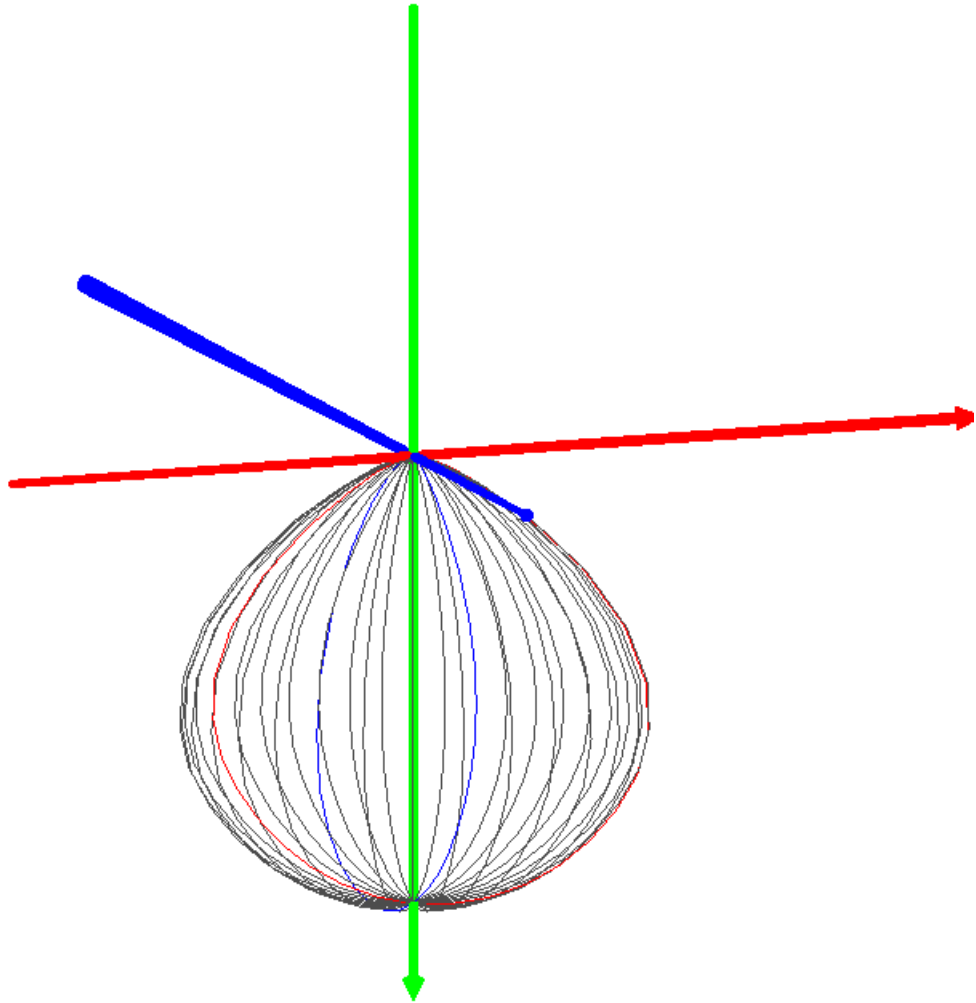
Distance [m]	Max illuminance [lx]	Diameter [m]
1	5025,2670	2,738
2	1256,3168	5,475
3	558,3630	8,213
4	314,0792	10,951
5	201,0107	13,688

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	107,7°	5,0°	-53,9°	53,9°
0-180°	108,9°	5,0°	-54,5°	54,5°
90-270°	105,8°	5,0°	-52,9°	52,9°

## Stabilization



### 3D Chart

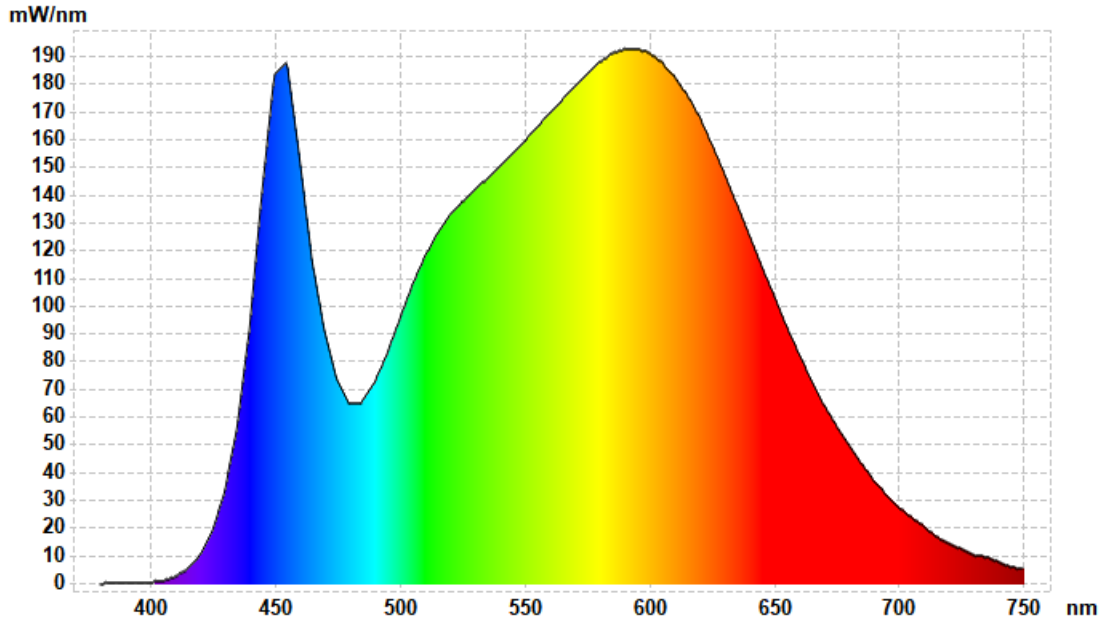


Legend

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



## Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3788	x	0,3850	CCT	4061
y	0,3789	y	0,3761	Chromaticity Error	0,003
Flux	12853,20 lm	u'	0,2284	Color Peak	594,00
		v'	0,5020	Color Peak Value	192,49
		L	100,00	Color Dominant	578,0
u'	0,2232	a	12,95	Luminous Intensity	0,00
v'	0,5023	b	32,09	Purity	
L	100,00	X	12335,38	Radiometric	34,5312
a	8,49	Y	12049,94	PAR	-
b	32,50	Z	7651,96	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	83,8	Ra	83,8	Mivis	1,8
R1	82,0	R8	66,3	Miuv	4,2
R2	89,9	R9	12,8	Binning	
R3	95,3	R10	75,6	Binning	4100K
R4	82,2	R11	80,9	Brightness	
R5	81,9	R12	62,4		
R6	85,7	R13	84,0		
R7	87,0	R14	97,6		