

GL GONIOSPECTROMETER  
**Lighting Research & Measurement Center**

**Report Wizard Sample Description Lines**

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Client name: *LED line®*  
Model name: *High-Bay UFO 100W 150lm/W 4000K 1-10V 120° RAIDER*  
Item No: *470768*  
Serial No.: *10003*  
Made by: *Radosław Kośnik*

**Eulumdat Fields**

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Company: *LED line®*  
Report number: *B1405*  
LuminaireName: *High-Bay UFO 100W 150lm/W 4000K 1-10V 120° RAIDER*  
LuminaireNumber: *470768*  
FileName: *B1405\_470768\_10003\_G\_20200615\_R\_P*  
Date: *2020-06-15*

**Dimensions of luminaire**

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

**Dimensions of luminous area**

Length: *180 mm*  
Width: *0 mm*  
C0-plane *9 mm*  
C90-plane *9 mm*  
C180-plane *9 mm*  
C270-plane *9 mm*

**Lamps:**

Number of lamps: 1  
 Type of lamps: 0  
 Total luminous flux: 14806,60 lm  
 Color temperatur: 3905.4 K  
 Color rendering index: 72,49  
 Wattage including ballast: 98,65 W

**Utilization factors:**

k = 0.60 0,308  
 k = 0.80 0,414  
 k = 1.00 0,501  
 k = 1.20 0,583  
 k = 1.50 0,643  
 k = 2.00 0,731  
 k = 2.50 0,775  
 k = 3.00 0,807  
 k = 4.00 0,849  
 k = 5.00 0,873

**Electrical parameters**

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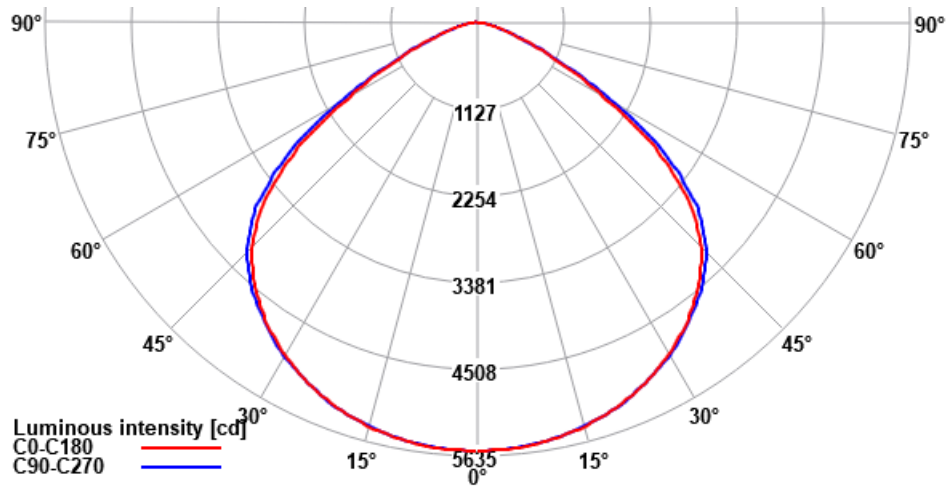
Power source: IT7321 300VA  
 U = 229,964 V  
 I = 0,444 A  
 P = 98,650 W  
 Power factor = 0,966

Temperature = 23.6 C

## Goniometric measurement results

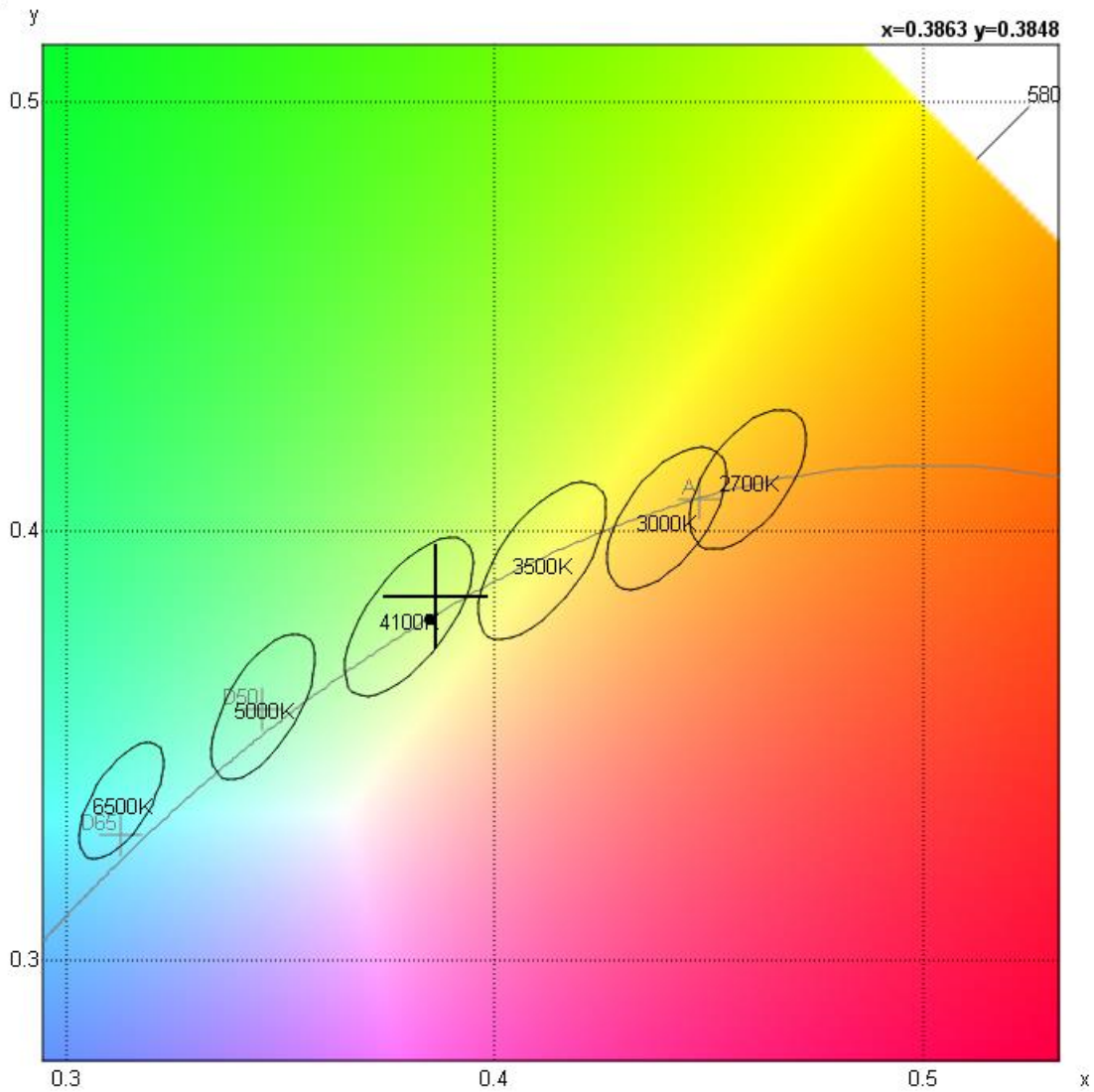
Total flux (utilized luminaire flux)	14806,60 lm
Flux in lower hemisphere	100,00 %
Flux in upper hemisphere	-0,00 %
Maximum luminous intensity	5580,04 cd
Light output ratio (LOR)	100,00 %
Luminous efficacy	150,09 lm/W

**Light intensity distribution diagram**

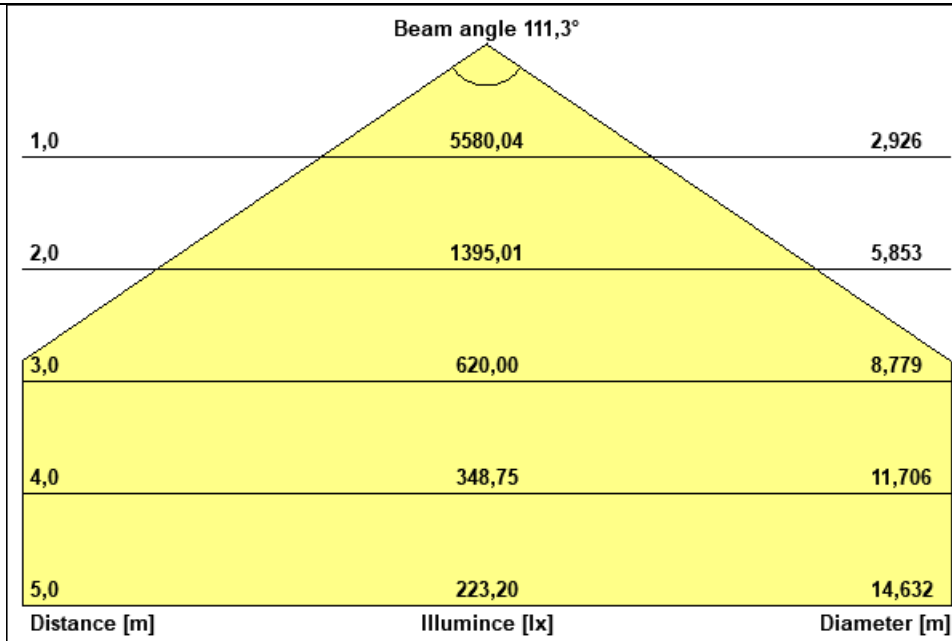


**CIE 1931 diagram**

x 0,3863  
 y 0,3848  
 Angular Colour Uniformity 0,0000  
 Binning 4100K



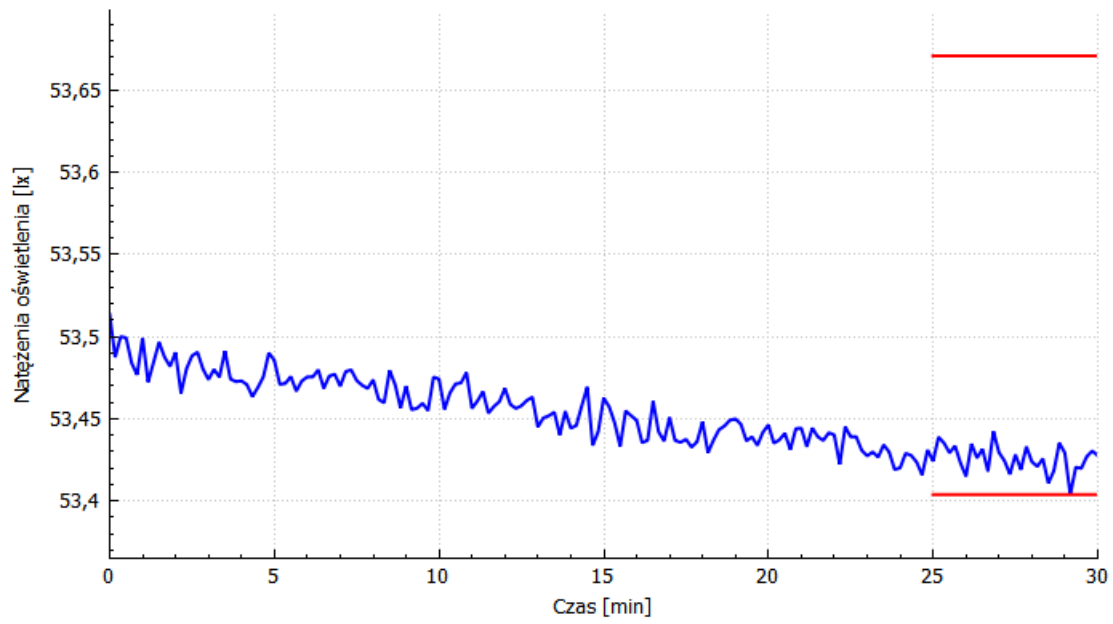
**Beam cone**



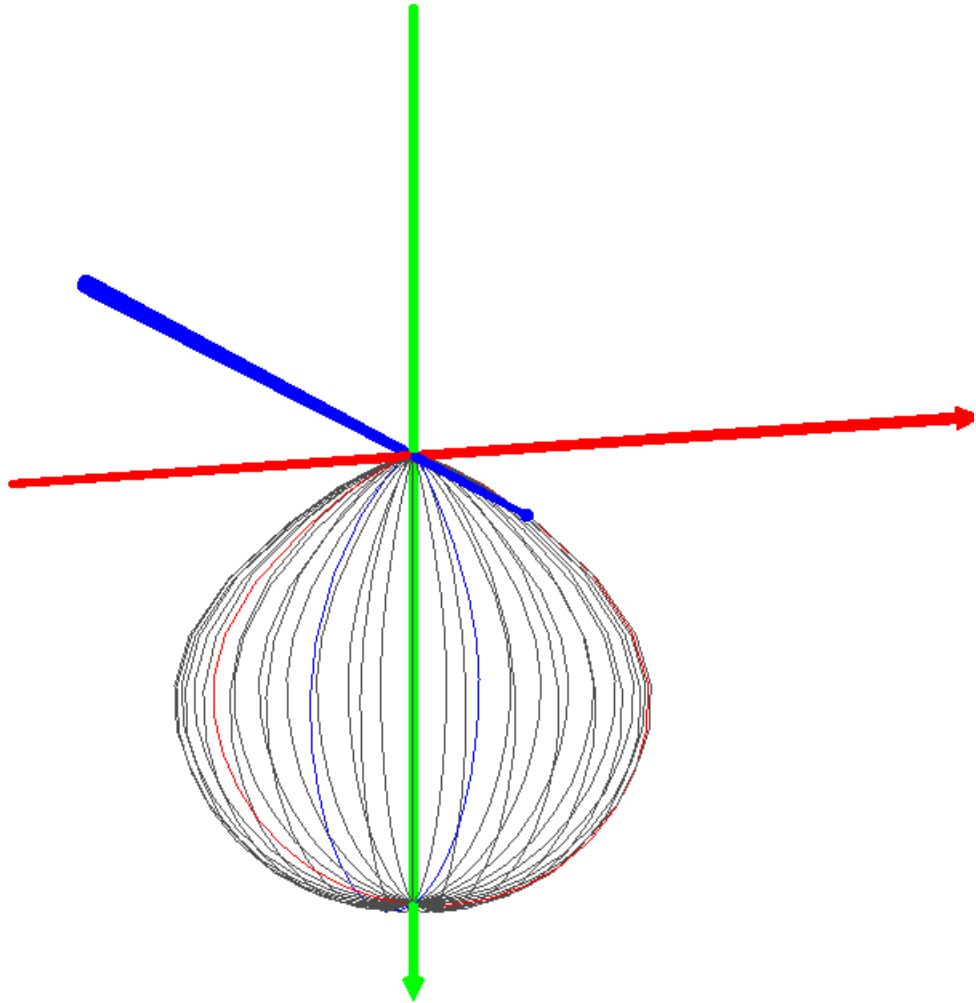
Distance [m]	Max illuminance [lx]	Diameter [m]
1	5580,0449	2,926
2	1395,0112	5,853
3	620,0050	8,779
4	348,7528	11,706
5	223,2018	14,632

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	111,3°	5,0°	-55,6°	55,6°
0-180°	110,5°	5,0°	-55,2°	55,2°
90-270°	112,4°	5,0°	-56,2°	56,2°

## Stabilization



3D Chart

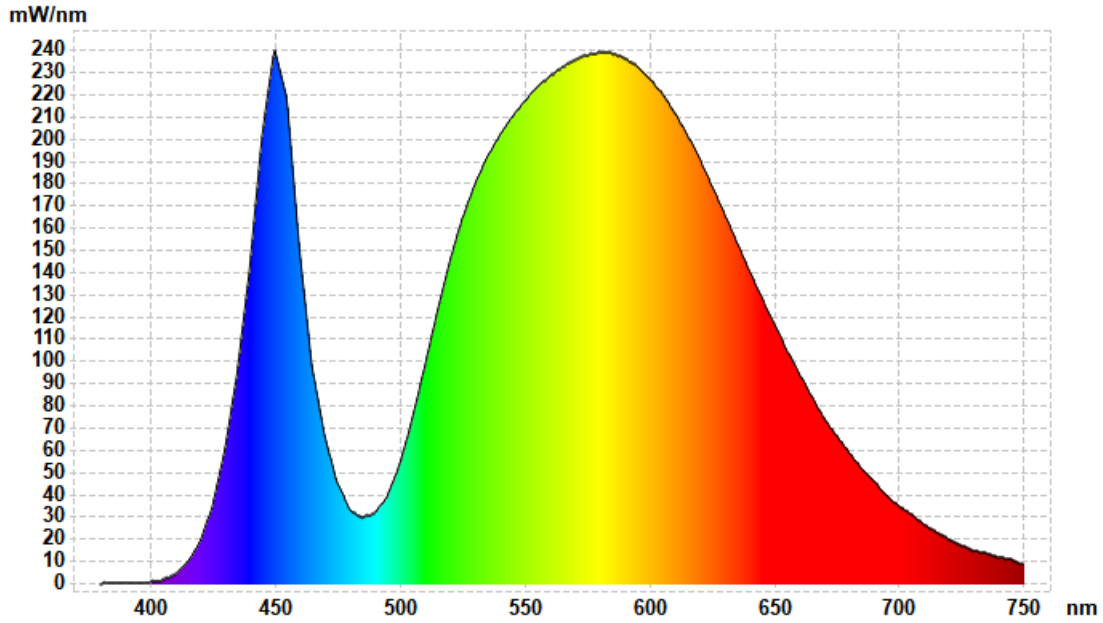


Legend

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



## Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3863	x	0,3940	CCT	3905
y	0,3848	y	0,3758	Chromaticity Error	0,005
Flux	14806,60 lm	u'	0,2345	Color Peak	450,92
		v'	0,5032	Color Peak Value	242,88
		L	100,00	Color Dominant	578,4
u'	0,2257	a	17,05	Luminous Intensity	0,00
v'	0,5059	b	34,10	Purity	
L	100,00	X	15136,13	Radiometric	40,1100
a	9,21	Y	14436,95	PAR	-
b	36,48	Z	8841,51	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	72,5	Ra	72,5	Mivis	2,1
R1	70,1	R8	57,1	Miuv	4,7
R2	78,4	R9	-17,2	Binning	
R3	83,4	R10	47,0	Binning	4100K
R4	71,4	R11	65,0	Brightness	
R5	68,5	R12	37,2		
R6	68,0	R13	71,1		
R7	83,1	R14	90,2		