

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 150W 130lm/W 4000K 120° RAIDER 130*  
Item No: *470966*  
Serial No.: *00202*  
Made by: *Radosław Kośnik*

**Eulumdat Fields**

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Company: *LED line®*  
Report number: *B1428*  
LuminaireName: *Oprawa High-Bay UFO 150W 130lm/W 4000K 120° RAIDER 130*  
LuminaireNumber: *470966*  
FileName: *B1428\_470966\_00202\_G\_20200703\_R\_P*  
Date: *2020-07-03*

**Dimensions of luminaire**

Length: *250 mm*  
Width: *0 mm*  
Height: *191 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:	19269,10 lm
Color temperatur:	4069.51 K
Color rendering index:	83,62
Wattage including ballast:	145,96 W

**Utilization factors:**

k = 0.60	0,314
k = 0.80	0,417
k = 1.00	0,503
k = 1.20	0,584
k = 1.50	0,644
k = 2.00	0,730
k = 2.50	0,775
k = 3.00	0,807
k = 4.00	0,849
k = 5.00	0,874

**Electrical parameters**

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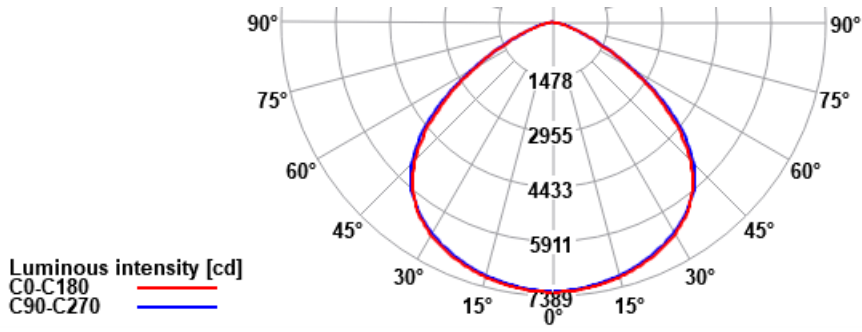
<i>Power source:</i>	<i>IT7321 300VA</i>
<i>U</i>	<i>= 230,073 V</i>
<i>I</i>	<i>= 0,645 A</i>
<i>P</i>	<i>= 145,963 W</i>
<i>Power factor</i>	<i>= 0,983</i>

*Temperature = 25.1 C*

## Goniometric measurement results

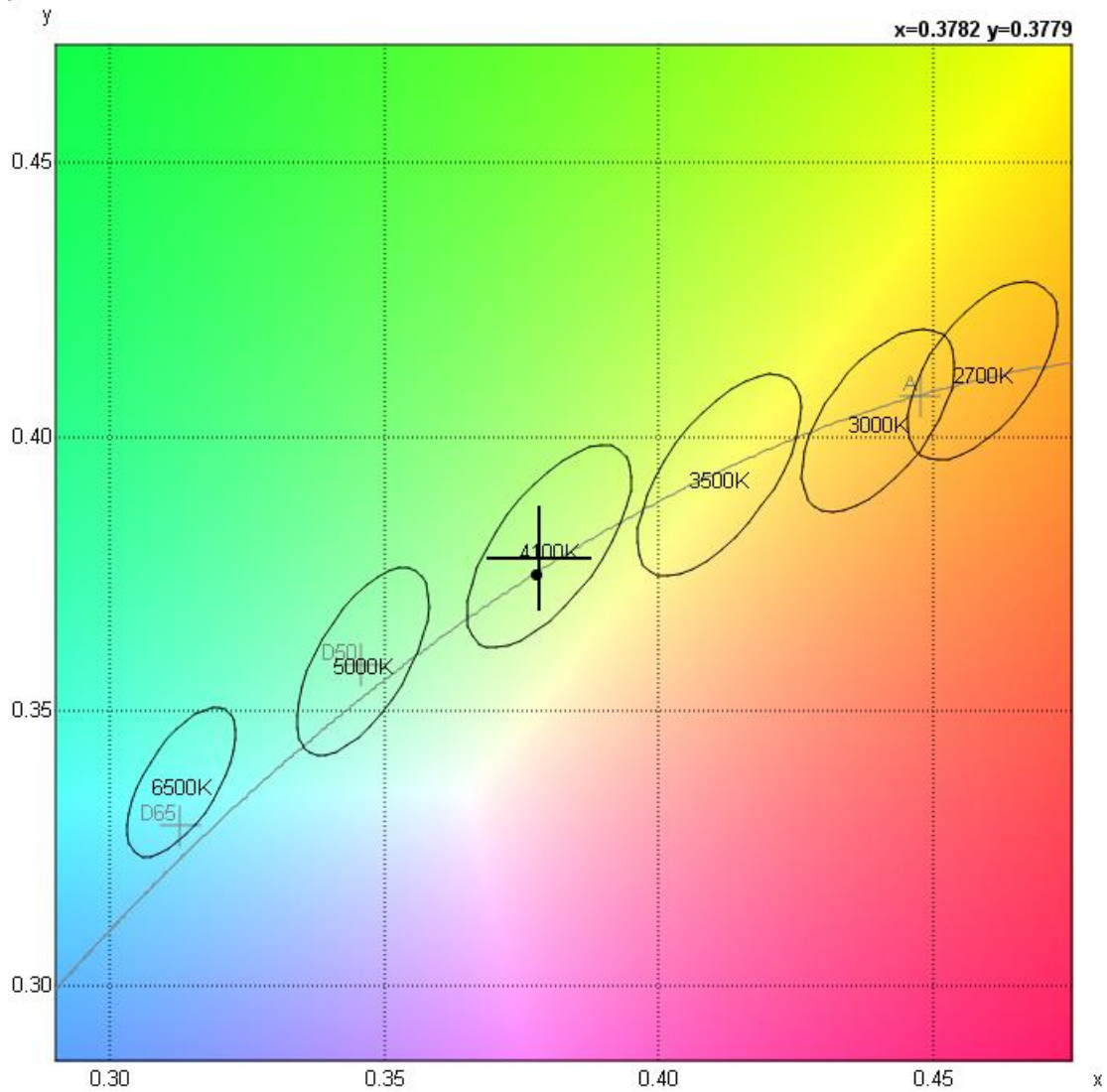
Total flux (utilized luminaire flux)	<i>19269,10 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>-0,00 %</i>
Maximum luminous intensity	<i>7315,36 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>132,02 lm/W</i>

**Light intensity distribution diagram**

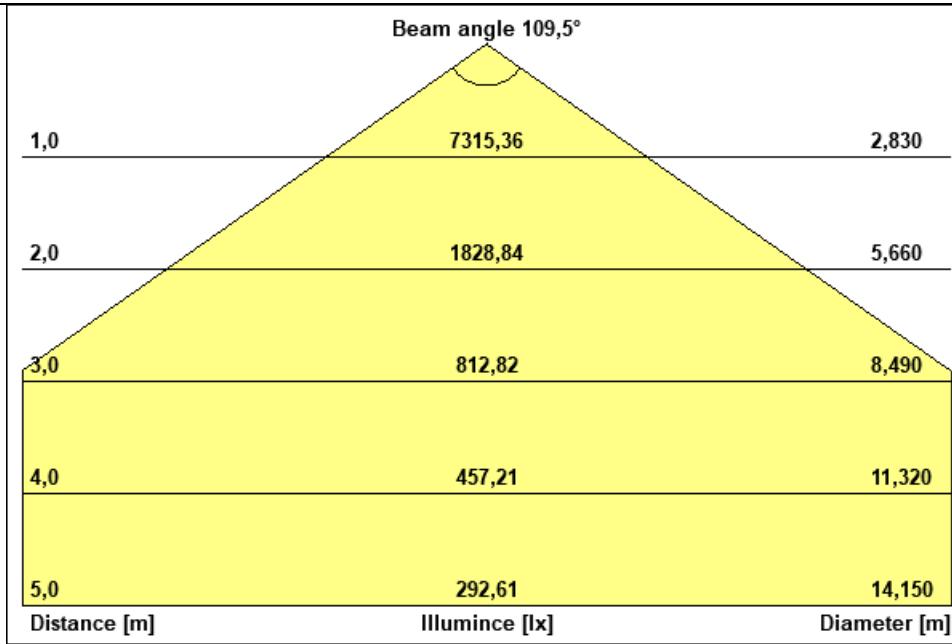


**CIE 1931 diagram**

x 0,3782  
 y 0,3779  
 Angular Colour Uniformity 0,0017  
 Binning 4100K



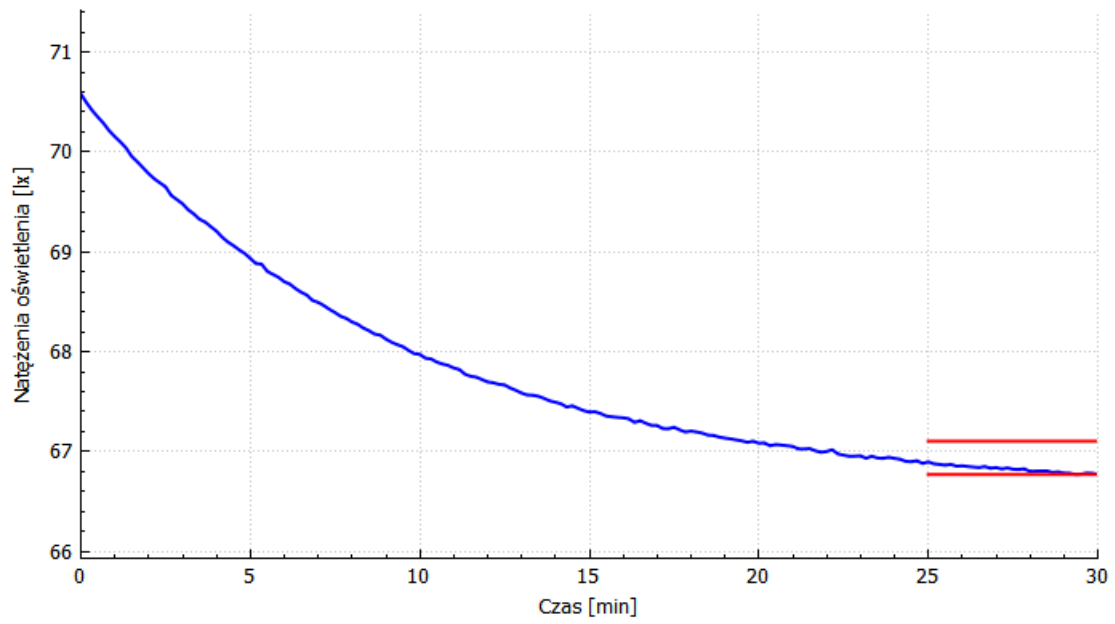
**Beam cone**



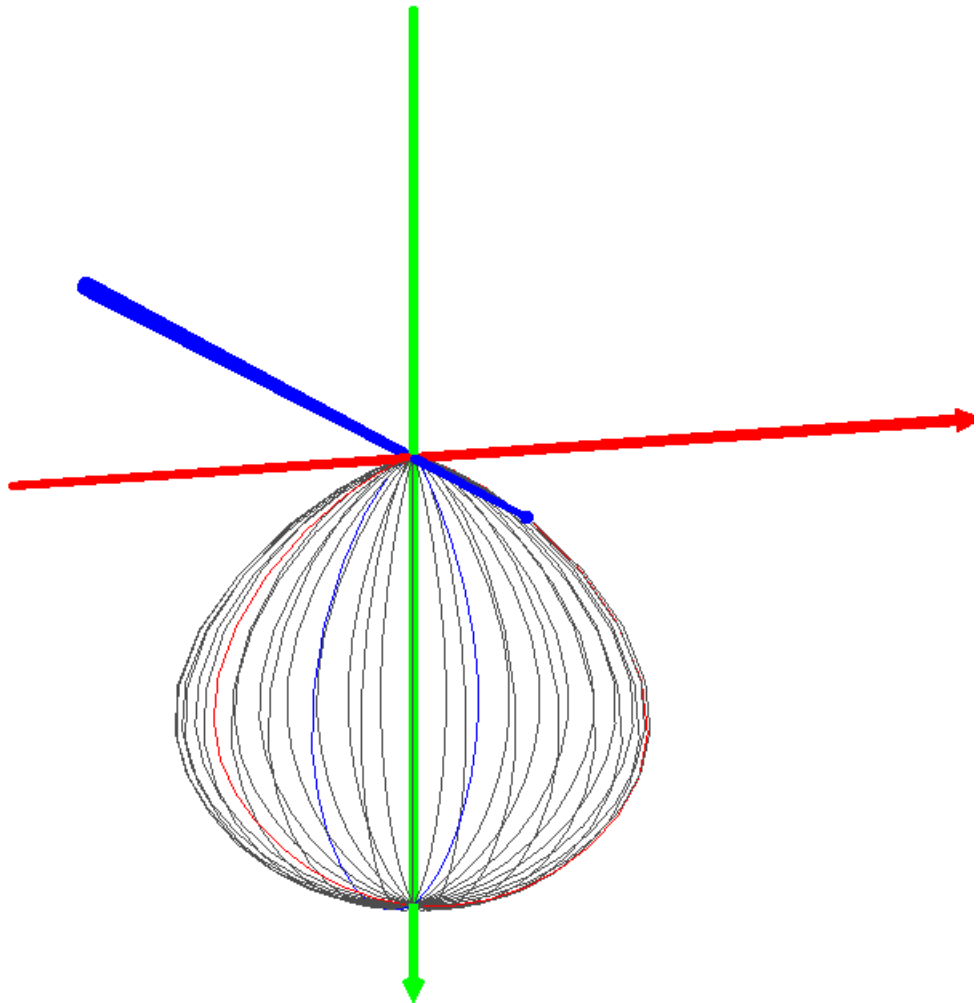
Distance [m]	Max illuminance [lx]	Diameter [m]
1	7315,3597	2,830
2	1828,8399	5,660
3	812,8177	8,490
4	457,2100	11,320
5	292,6144	14,150

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	109,5°	5,0°	-54,7°	54,7°
0-180°	107,9°	5,0°	-54,0°	54,0°
90-270°	109,6°	5,0°	-54,8°	54,8°




## Stabilization



### 3D Chart

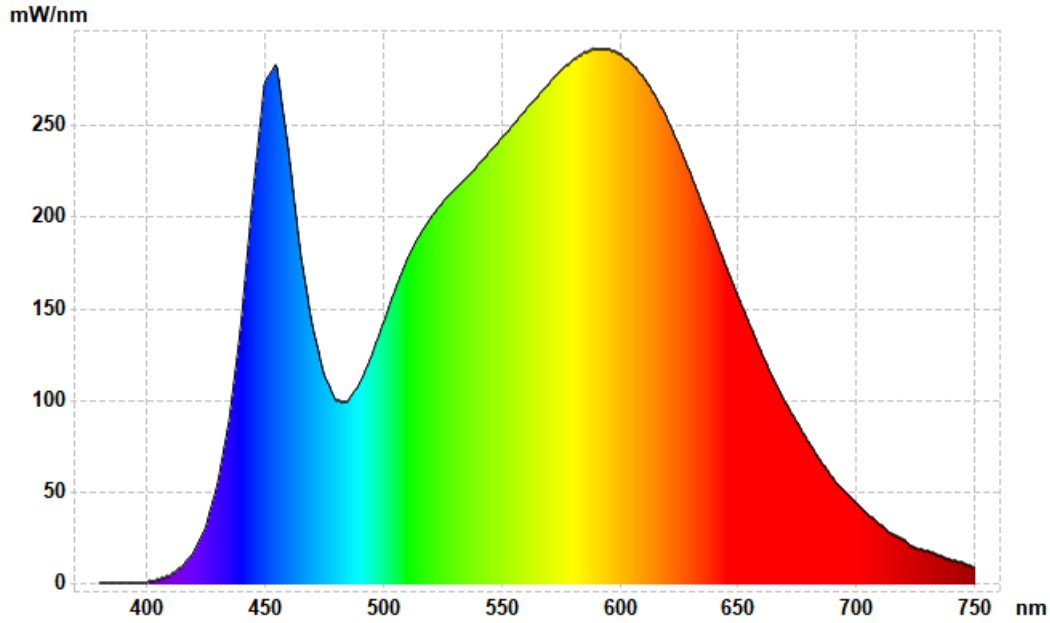


Legend

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



## Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3782	x	0,3844	CCT	4070
y	0,3779	y	0,3751	Chromaticity Error	0,003
Flux	19269,10 lm	u'	0,2284	Color Peak	592,28
		v'	0,5015	Color Peak Value	291,86
		L	100,00	Color Dominant	578,1
u'	0,2232	a	13,15	Luminous Intensity	0,00
v'	0,5018	b	31,56	Purity	
L	100,00	X	18737,63	Radiometric	52,6305
a	8,68	Y	18282,79	PAR	-
b	32,01	Z	11718,87	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	83,6	Ra	83,6	Mivis	1,8
R1	81,8	R8	66,3	Miuv	4,2
R2	89,8	R9	12,9	Binning	
R3	95,1	R10	75,2	Binning	4100K
R4	81,9	R11	80,3	Brightness	
R5	81,7	R12	62,3		
R6	85,4	R13	83,9		
R7	87,0	R14	97,4		