

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *High-Bay UFO 200W 150lm/W 4000K 1-10V 60° RAIDER*
Item No: *471024*
Serial No.: *10003*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B1436*
LuminaireName: *High-Bay UFO 200W 150lm/W 4000K 1-10V 60° RAIDER*
LuminaireNumber: *471024*
FileName: *B1436_471024_10003_G_20200617_R_P*
Date: *2020-06-17*

Dimensions of luminaire

Length: *280 mm*
Width: *0 mm*
Height: *200 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: 29664,90 lm
 Color temperatur: 3940.44 K
 Color rendering index: 72,67
 Wattage including ballast: 197,51 W

Utilization factors:

k = 0.60 0,476
 k = 0.80 0,553
 k = 1.00 0,622
 k = 1.20 0,684
 k = 1.50 0,730
 k = 2.00 0,801
 k = 2.50 0,831
 k = 3.00 0,856
 k = 4.00 0,890
 k = 5.00 0,911

Electrical parameters

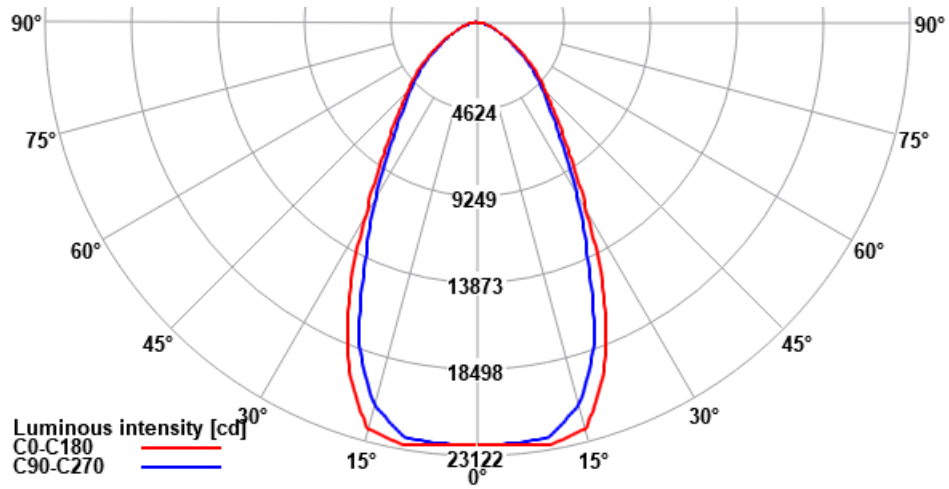
Power source: IT7321 300VA
 U = 229,949 V
 I = 0,875 A
 P = 197,511 W
 Power factor = 0,981

Temperature = 24,9 C

Goniometric measurement results

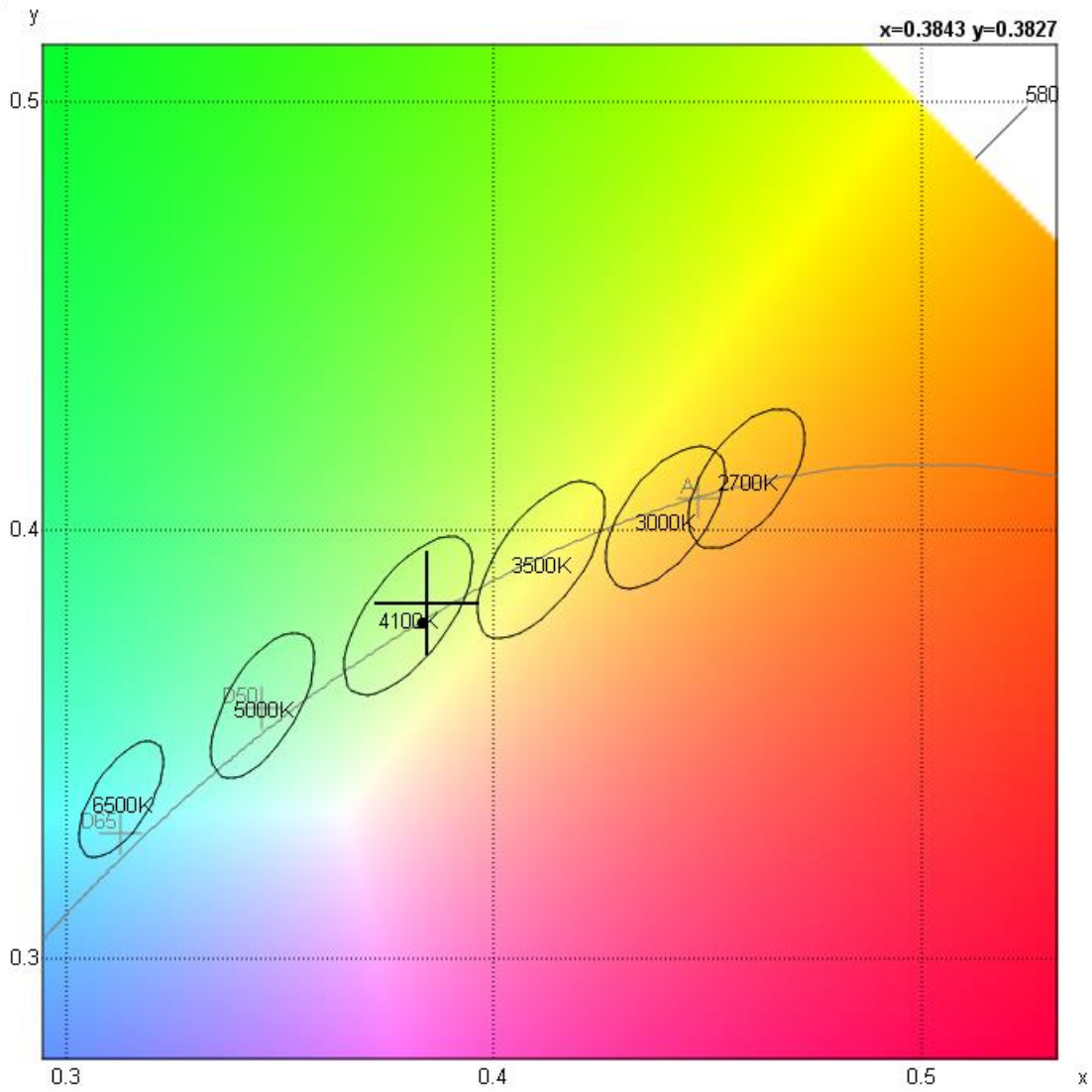
Total flux (utilized luminaire flux)	<i>29664,90 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>0,00 %</i>
Maximum luminous intensity	<i>22893,44 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>150,19 lm/W</i>

Light intensity distribution diagram

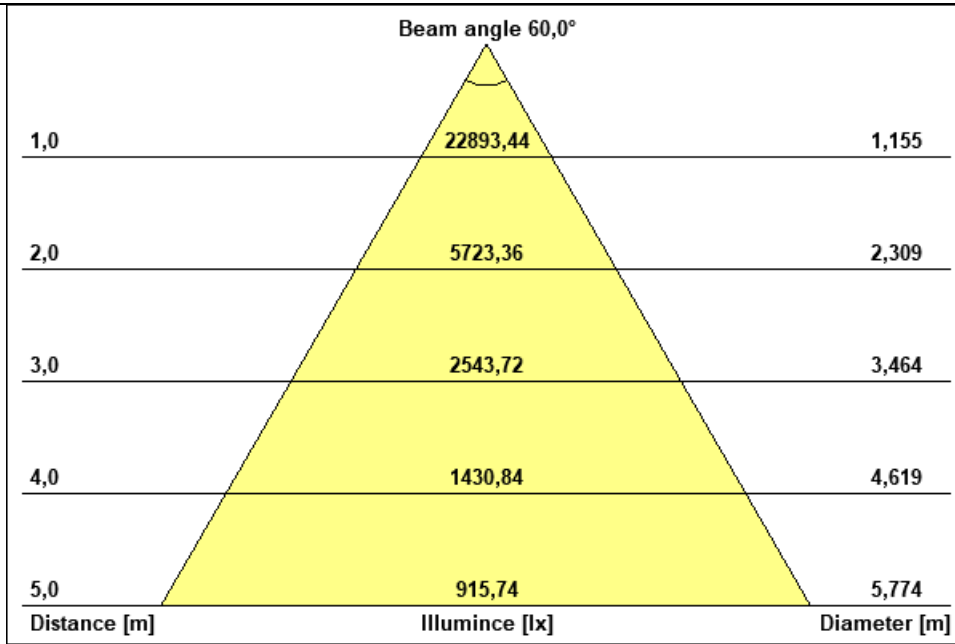


CIE 1931 diagram

x 0,3843
 y 0,3827
 Angular Colour Uniformity 0,0000
 Binning 4100K



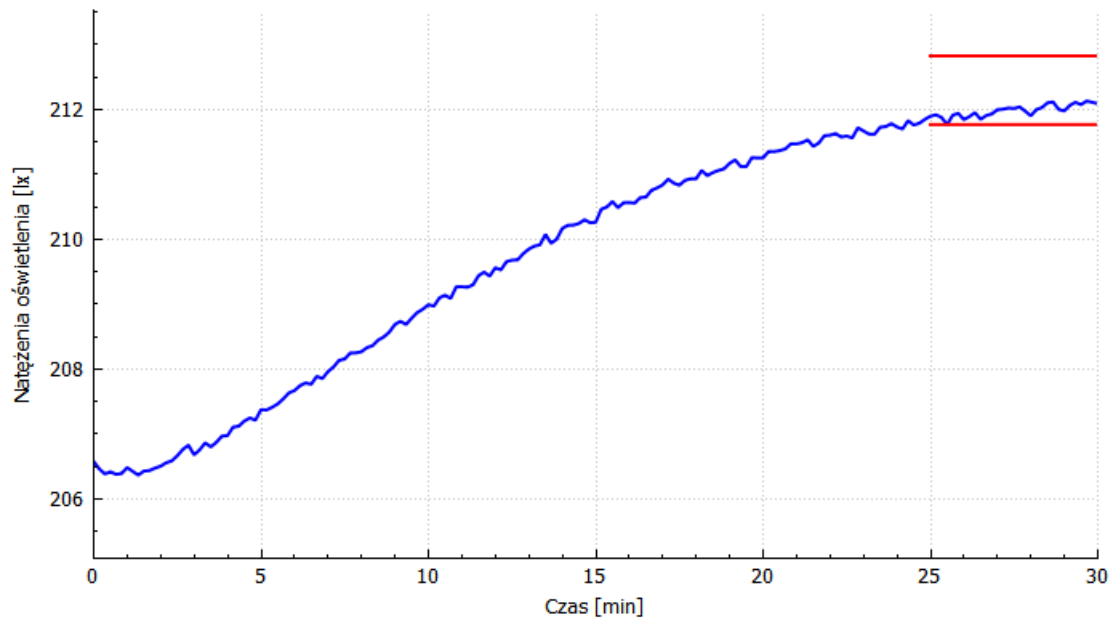
Beam cone



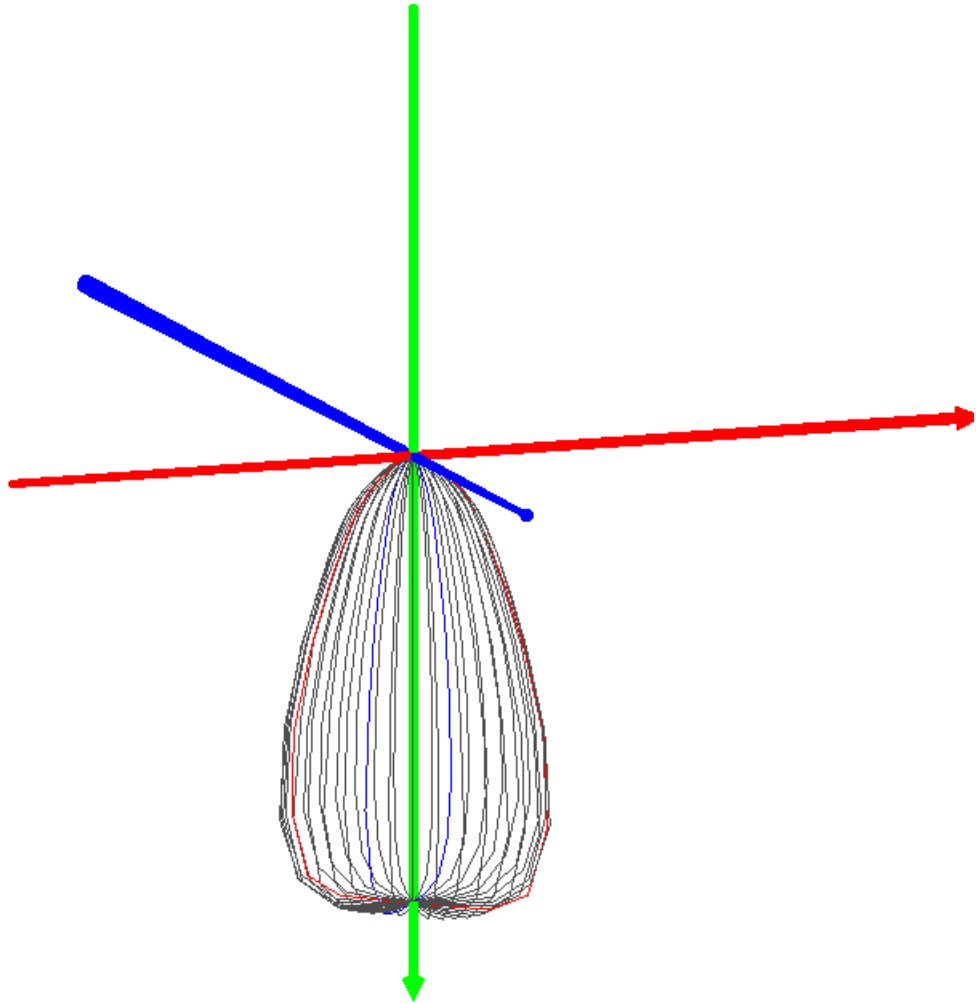
Distance [m]	Max illuminance [lx]	Diameter [m]
1	22893,4416	1,155
2	5723,3604	2,309
3	2543,7157	3,464
4	1430,8401	4,619
5	915,7377	5,774

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	60,0°	8,3°	-30,0°	30,0°
0-180°	61,1°	10,0°	-30,5°	30,5°
90-270°	58,4°	5,0°	-29,2°	29,2°

Stabilization



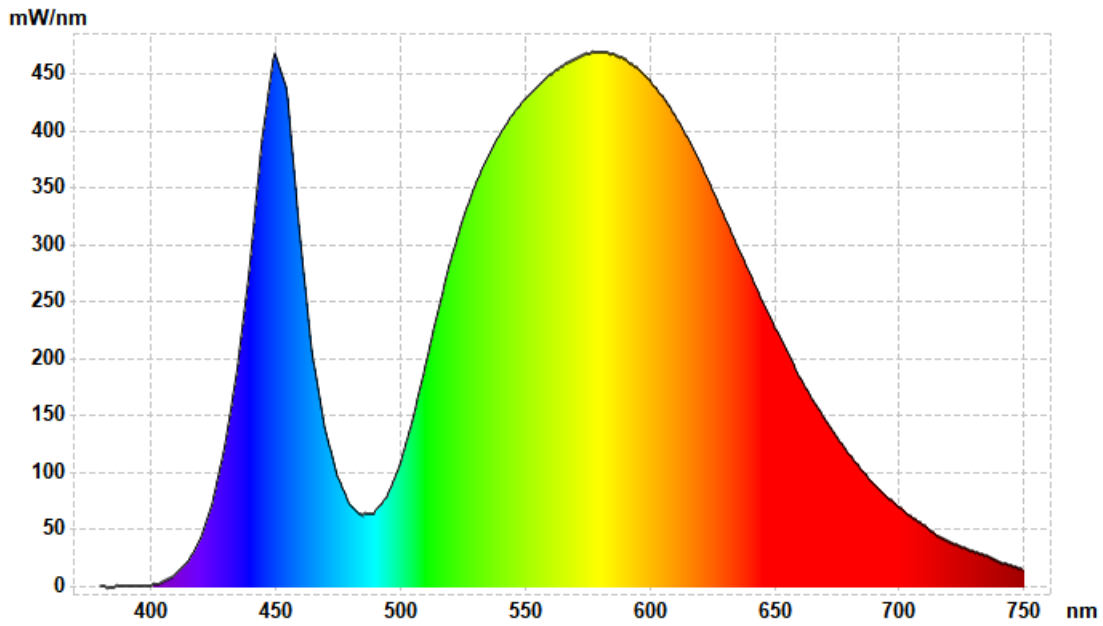
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3843	x	0,3920	CCT	3940
y	0,3827	y	0,3740	Chromaticity Error	0,005
Flux	29664,90 lm	u'	0,2339	Color Peak	450,92
		v'	0,5021	Color Peak Value	475,07
		L	100,00	Color Dominant	578,5
u'	0,2253	a	16,98	Luminous Intensity	0,00
v'	0,5048	b	32,92	Purity	
L	100,00	X	29735,27	Radiometric	79,1058
a	9,25	Y	28373,58	PAR	-
b	35,25	Z	17750,30	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	72,7	Ra	72,7	Mivis	2,1
R1	70,3	R8	57,3	Miuv	4,7
R2	78,7	R9	-16,5	Binning	
R3	83,6	R10	47,5	Binning	4100K
R4	71,3	R11	64,7	Brightness	
R5	68,7	R12	37,9		
R6	68,3	R13	71,4		
R7	83,2	R14	90,3		