

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *High-Bay UFO 150W 150lm/W 4000K 1-10V 90° RAIDER*
Item No: *470799*
Serial No.: *10003*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B1404*
LuminaireName: *High-Bay UFO 150W 150lm/W 4000K 1-10V 90° RAIDER*
LuminaireNumber: *470799*
FileName: *B1404_470799_10003_G_20200615_R_P*
Date: *2020-06-15*

Dimensions of luminaire

Length: *250 mm*
Width: *0 mm*
Height: *191 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:	22221,60 lm
Color temperatur:	3915.62 K
Color rendering index:	72,37
Wattage including ballast:	148,14 W

Utilization factors:

k = 0.60	0,423
k = 0.80	0,511
k = 1.00	0,587
k = 1.20	0,655
k = 1.50	0,706
k = 2.00	0,782
k = 2.50	0,816
k = 3.00	0,843
k = 4.00	0,879
k = 5.00	0,900

Electrical parameters

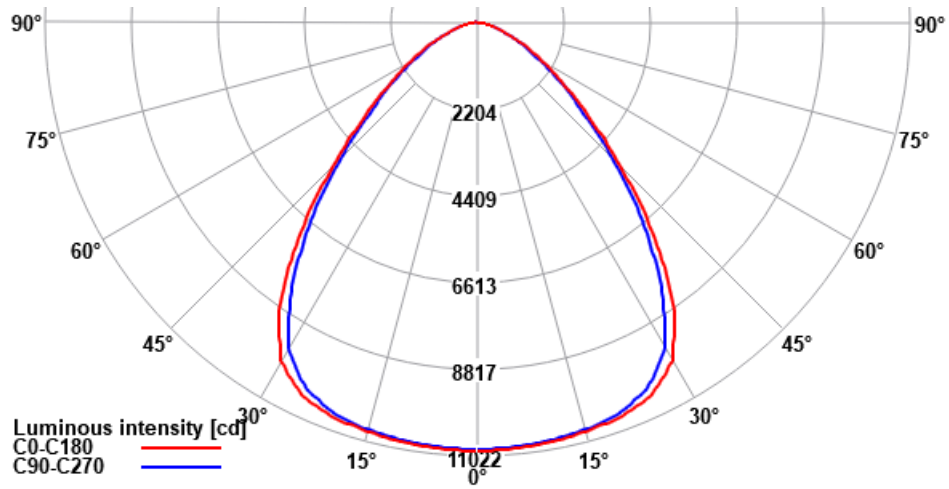
Power source:	IT7321 300VA
U	= 229,965 V
I	= 0,655 A
P	= 148,140 W
Power factor	= 0,983

Temperature = 24.3 C

Goniometric measurement results

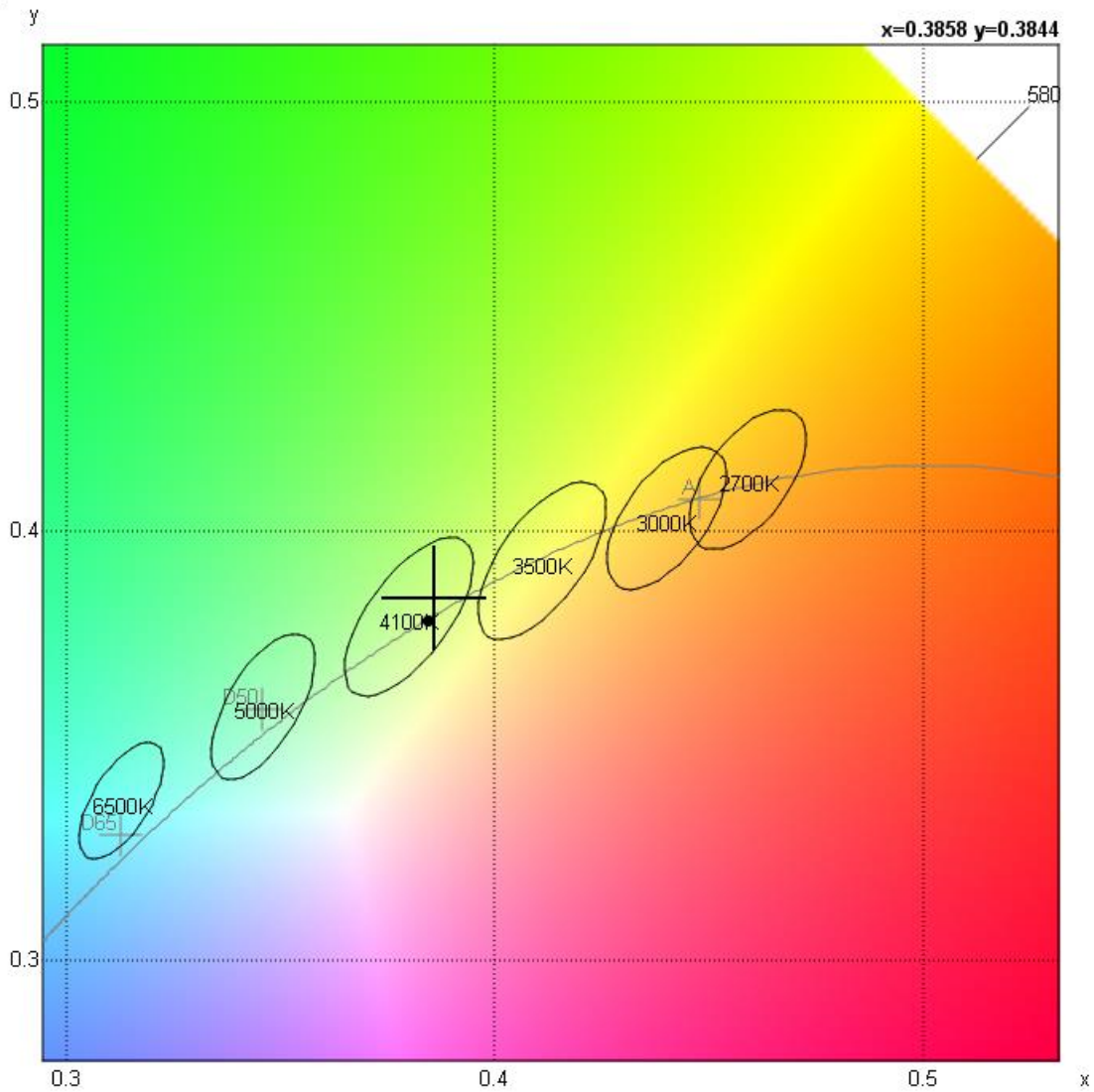
Total flux (utilized luminaire flux)	22221,60 <i>lm</i>
Flux in lower hemisphere	100,00 %
Flux in upper hemisphere	0,00 %
Maximum luminous intensity	10912,67 <i>cd</i>
Light output ratio (LOR)	100,00 %
Luminous efficacy	150,00 <i>lm/W</i>

Light intensity distribution diagram

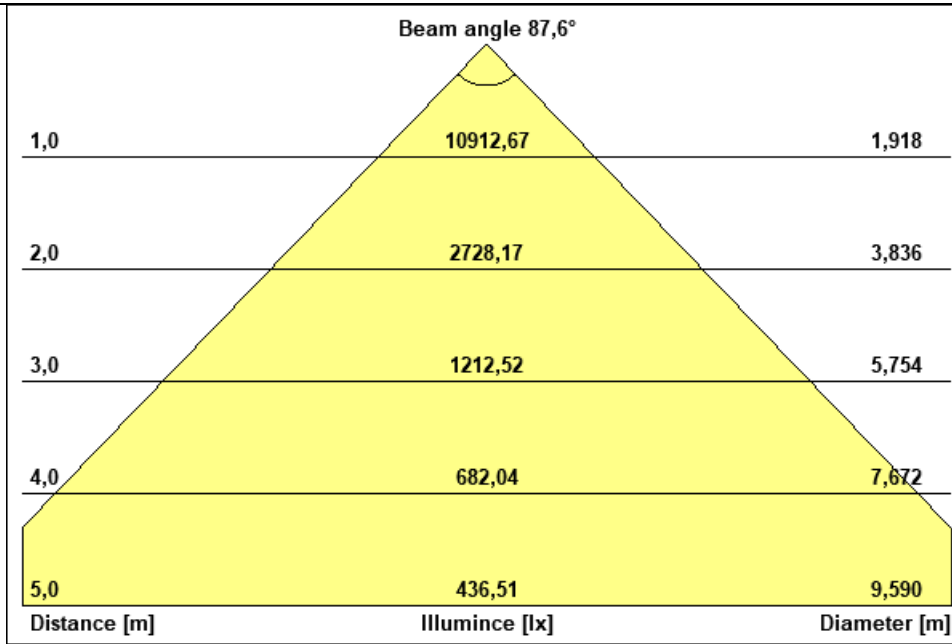


CIE 1931 diagram

x 0,3858
 y 0,3844
 Angular Colour Uniformity 0,0000
 Binning 4100K



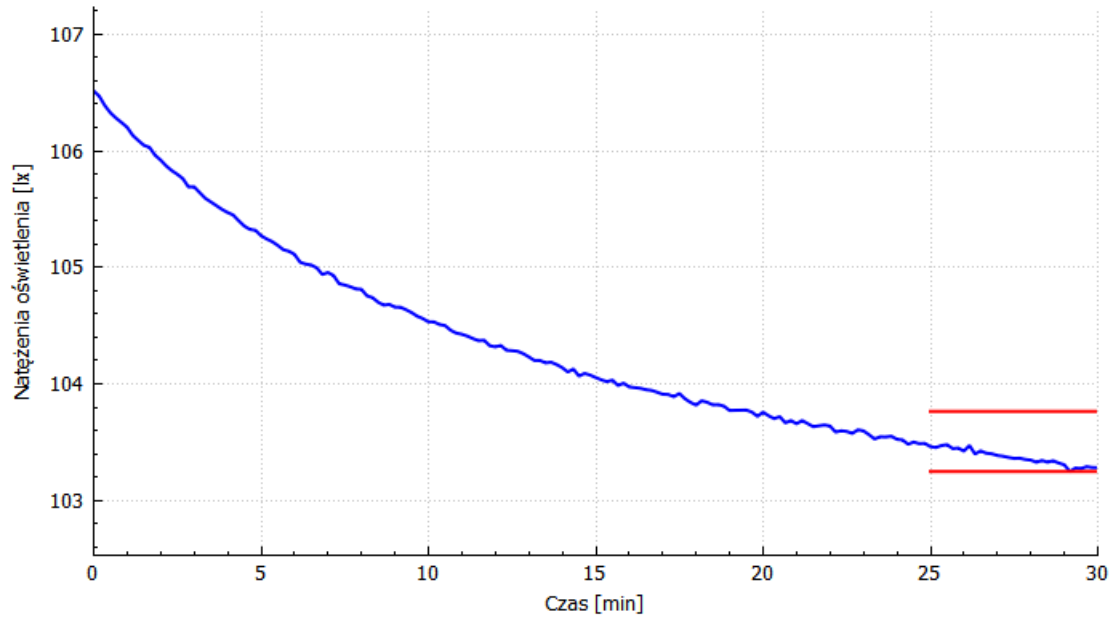
Beam cone



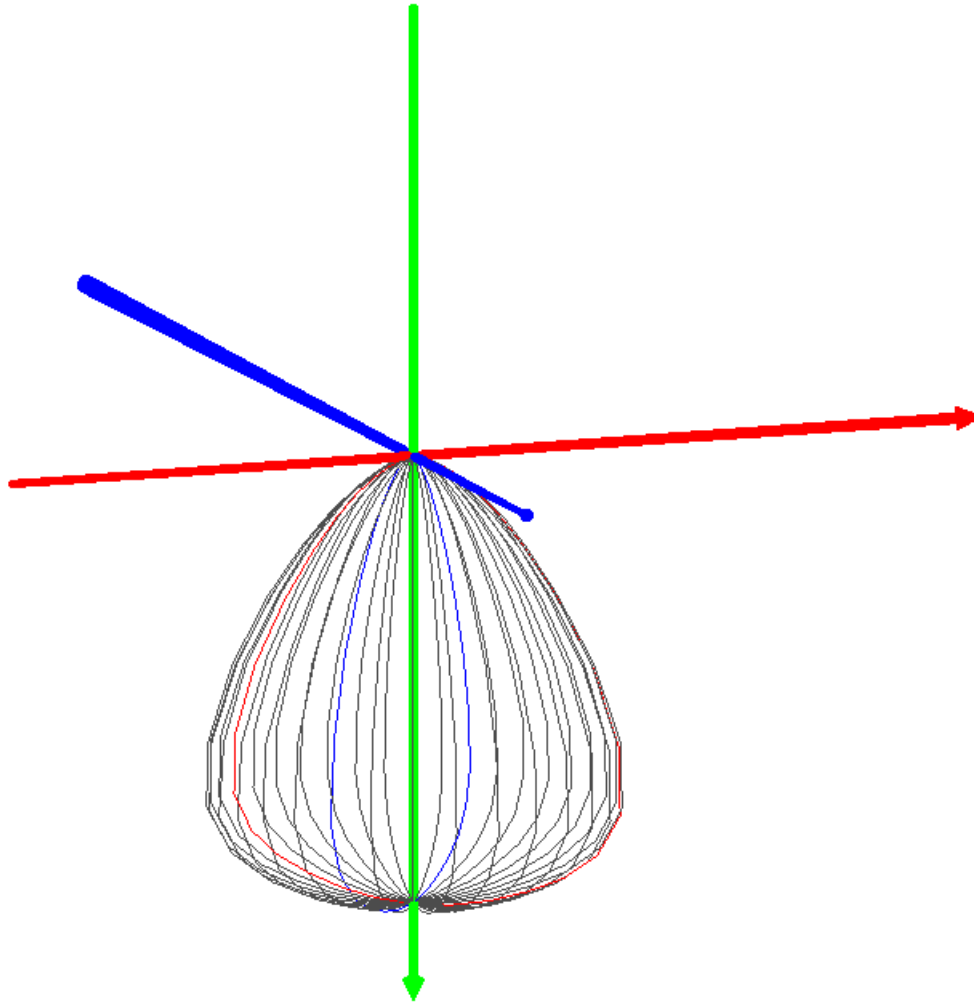
Distance [m]	Max illuminance [lx]	Diameter [m]
1	10912,6722	1,918
2	2728,1681	3,836
3	1212,5191	5,754
4	682,0420	7,672
5	436,5069	9,590

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	87,6°	5,0°	-43,8°	43,8°
0-180°	88,4°	5,0°	-44,2°	44,2°
90-270°	86,7°	5,0°	-43,4°	43,4°

Stabilization



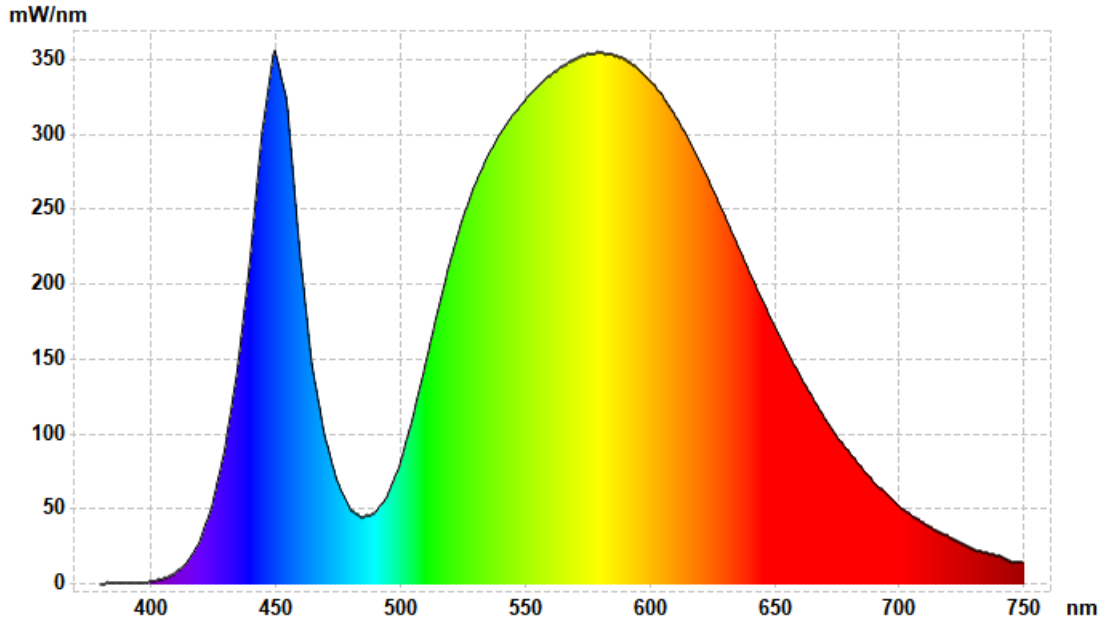
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3858	x	0,3935	CCT	3916
y	0,3844	y	0,3754	Chromaticity Error	0,005
Flux	22221,60 lm	u'	0,2343	Color Peak	450,92
		v'	0,5029	Color Peak Value	359,68
		L	100,00	Color Dominant	578,4
u'	0,2256	a	17,01	Luminous Intensity	0,00
v'	0,5057	b	33,82	Purity	
L	100,00	X	22441,87	Radiometric	59,5302
a	9,15	Y	21410,23	PAR	-
b	36,21	Z	13178,78	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	72,4	Ra	72,4	Mivis	2,1
R1	69,9	R8	57,0	Miuv	4,7
R2	78,3	R9	-17,5	Binning	
R3	83,3	R10	46,7	Binning	4100K
R4	71,2	R11	64,7	Brightness	
R5	68,3	R12	37,1		
R6	67,8	R13	71,0		
R7	83,0	R14	90,1		