

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *Oprawa High-Bay UFO 100W 150lm/W 4000K 1-10V 90° RAIDER*
Item No: *471017*
Serial No.: *10003*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B1435*
LuminaireName: *Oprawa High-Bay UFO 100W 150lm/W 4000K 1-10V 90° RAIDER*
LuminaireNumber: *471017*
FileName: *B1435_471017_10003_G_20200618_R_P*
Date: *2020-06-18*

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: 14819,30 lm
 Color temperatur: 3900.15 K
 Color rendering index: 72,48
 Wattage including ballast: 99,00 W

Utilization factors:

k = 0.60	0,416
k = 0.80	0,505
k = 1.00	0,583
k = 1.20	0,653
k = 1.50	0,704
k = 2.00	0,782
k = 2.50	0,816
k = 3.00	0,843
k = 4.00	0,878
k = 5.00	0,899

Electrical parameters

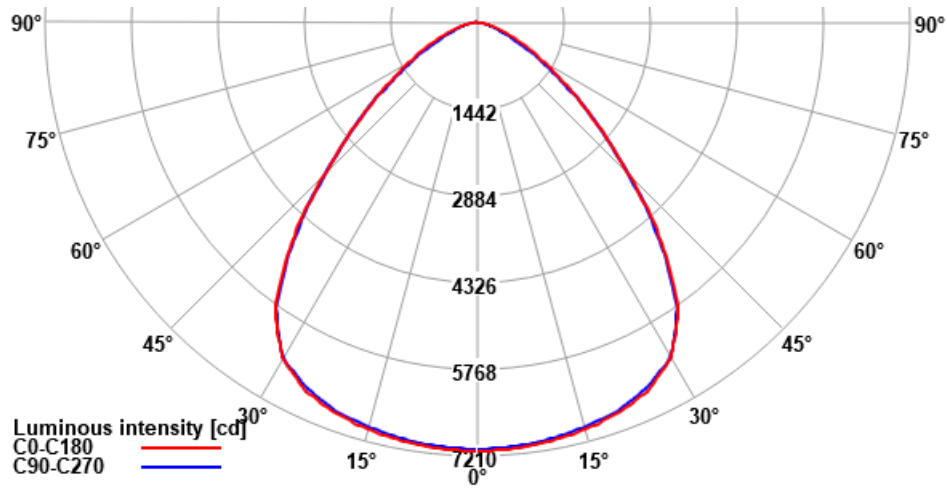
Power source: IT7321 300VA
U = 229,994 V
I = 0,446 A
P = 98,996 W
Power factor = 0,965

Temperature = 24,7 C

Goniometric measurement results

Total flux (utilized luminaire flux)	<i>14819,30 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>0,00 %</i>
Maximum luminous intensity	<i>7138,31 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>149,69 lm/W</i>

Light intensity distribution diagram

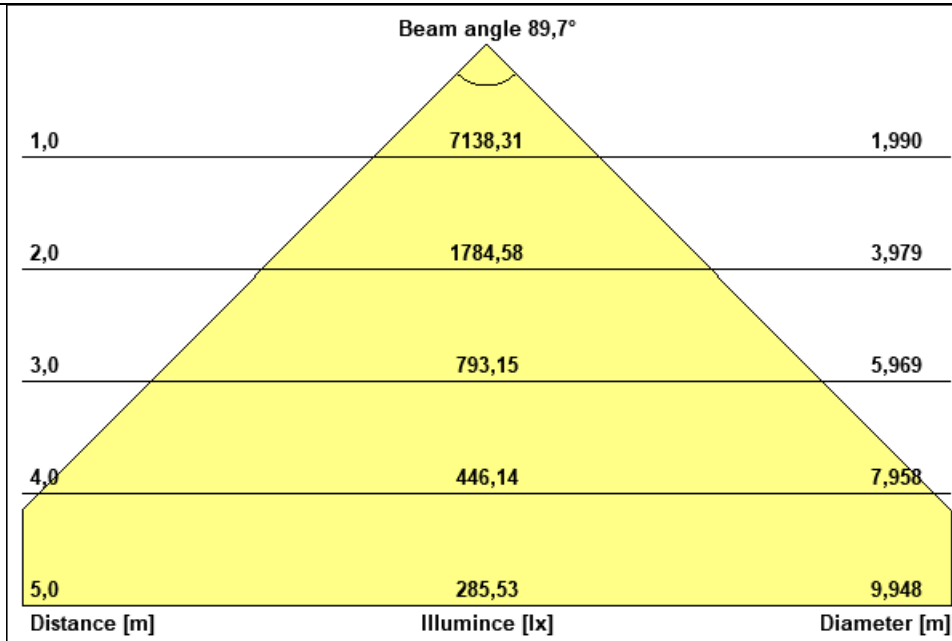


CIE 1931 diagram

x 0,3864
 y 0,3846
 Angular Colour Uniformity 0,0000
 Binning 4100K



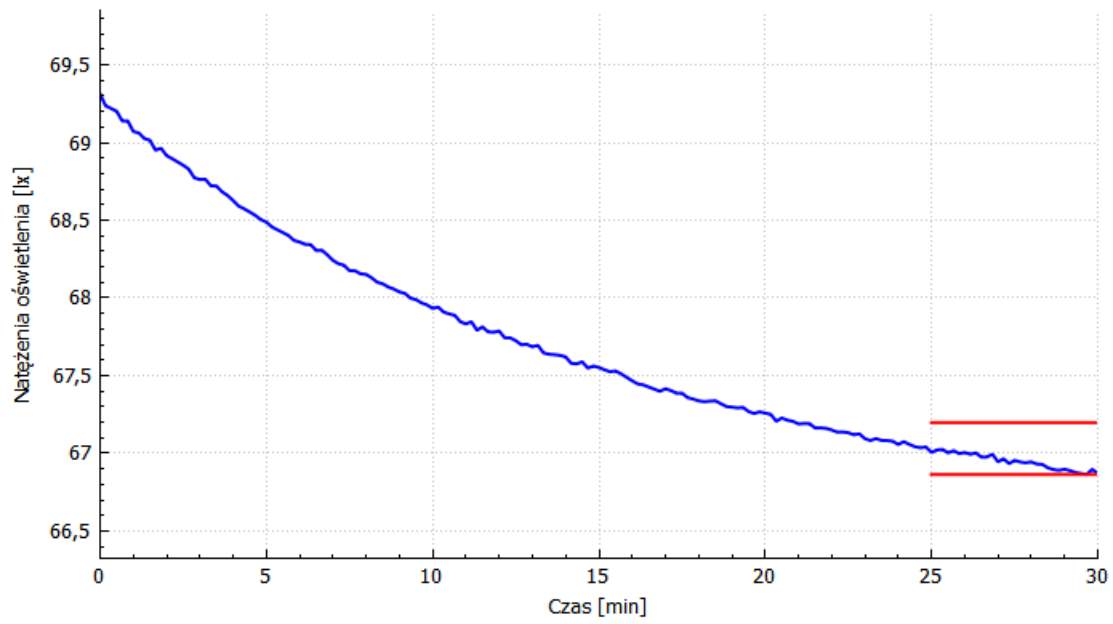
Beam cone



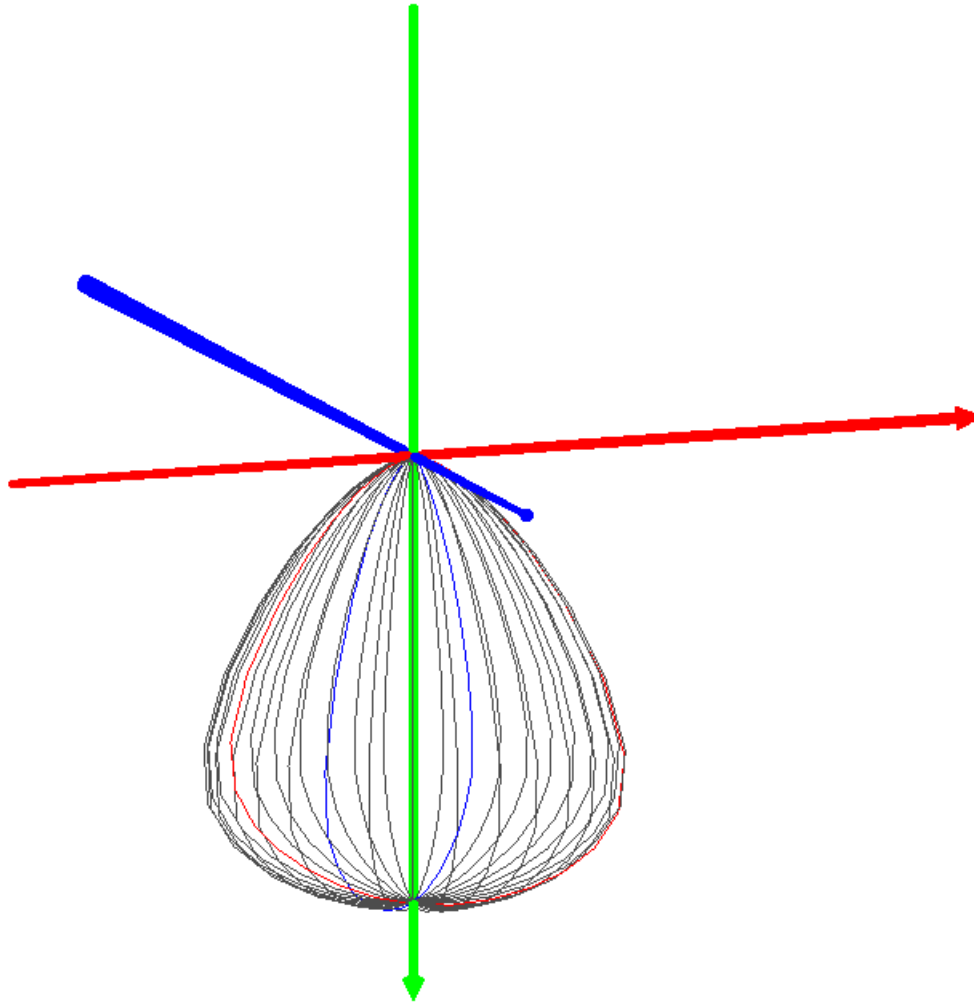
Distance [m]	Max illuminance [lx]	Diameter [m]
1	7138,3086	1,990
2	1784,5772	3,979
3	793,1454	5,969
4	446,1443	7,958
5	285,5323	9,948

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	89,7°	5,0°	-44,8°	44,8°
0-180°	90,1°	5,0°	-45,0°	45,0°
90-270°	90,1°	5,0°	-45,1°	45,1°

Stabilization



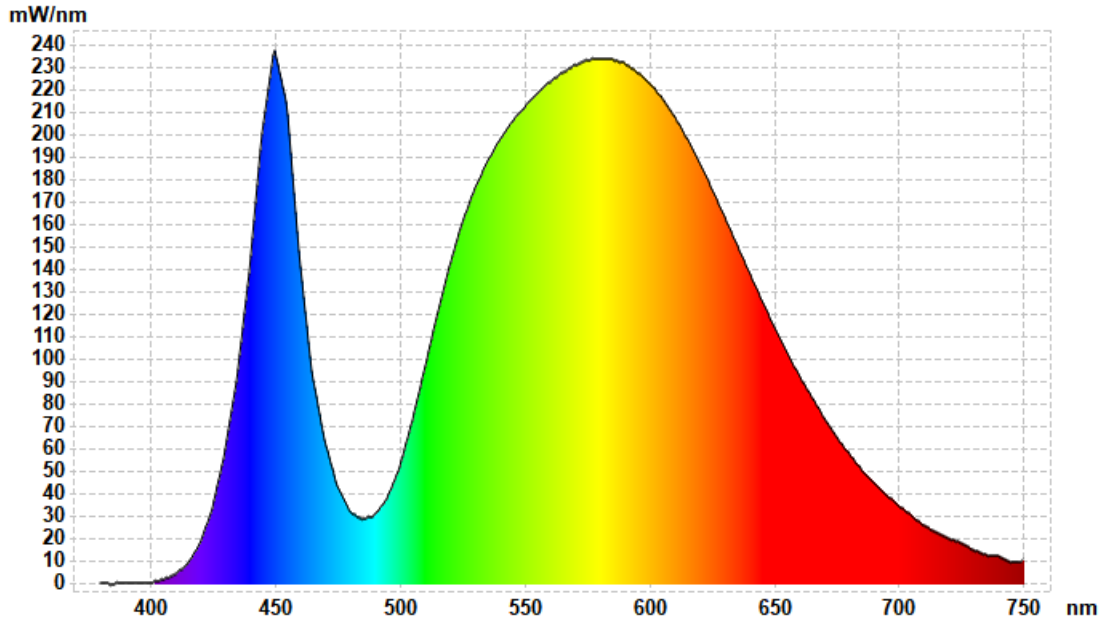
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3864	x	0,3942	CCT	3900
y	0,3846	y	0,3756	Chromaticity Error	0,005
Flux	14819,30 lm	u'	0,2346	Color Peak	450,92
		v'	0,5031	Color Peak Value	239,79
		L	100,00	Color Dominant	578,5
u'	0,2259	a	17,19	Luminous Intensity	0,00
v'	0,5059	b	34,07	Purity	
L	100,00	X	14831,15	Radiometric	39,2713
a	9,34	Y	14134,21	PAR	-
b	36,47	Z	8661,28	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	-17,0	Binning	
R3	83,3	R10	46,9	Binning	4100K
R4	71,4	R11	65,1	Brightness	
R5	68,5	R12	37,1		
R6	67,9	R13	71,2		
R7	83,0	R14	90,1		