

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 60° RAIDER*
Item No: *471000*
Serial No.: *10003*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B1434*
LuminaireName: *Oprawa High-Bay UFO 100W 150lm/W 4000K 1-10V 60° RAIDER*
LuminaireNumber: *471000*
FileName: *B1434_471000_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: 14826,90 lm
 Color temperatur: 3922.74 K
 Color rendering index: 72,63
 Wattage including ballast: 98,99 W

Utilization factors:

k = 0.60 0,495
 k = 0.80 0,572
 k = 1.00 0,640
 k = 1.20 0,701
 k = 1.50 0,746
 k = 2.00 0,816
 k = 2.50 0,843
 k = 3.00 0,867
 k = 4.00 0,899
 k = 5.00 0,918

Electrical parameters

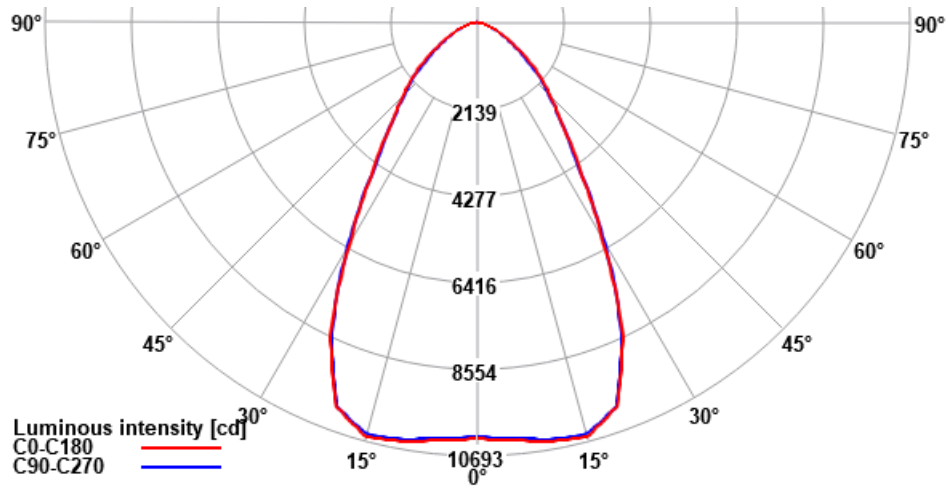
Power source: IT7321 300VA
 U = 230,057 V
 I = 0,446 A
 P = 98,992 W
 Power factor = 0,965

Temperature = 24,5 C

Goniometric measurement results

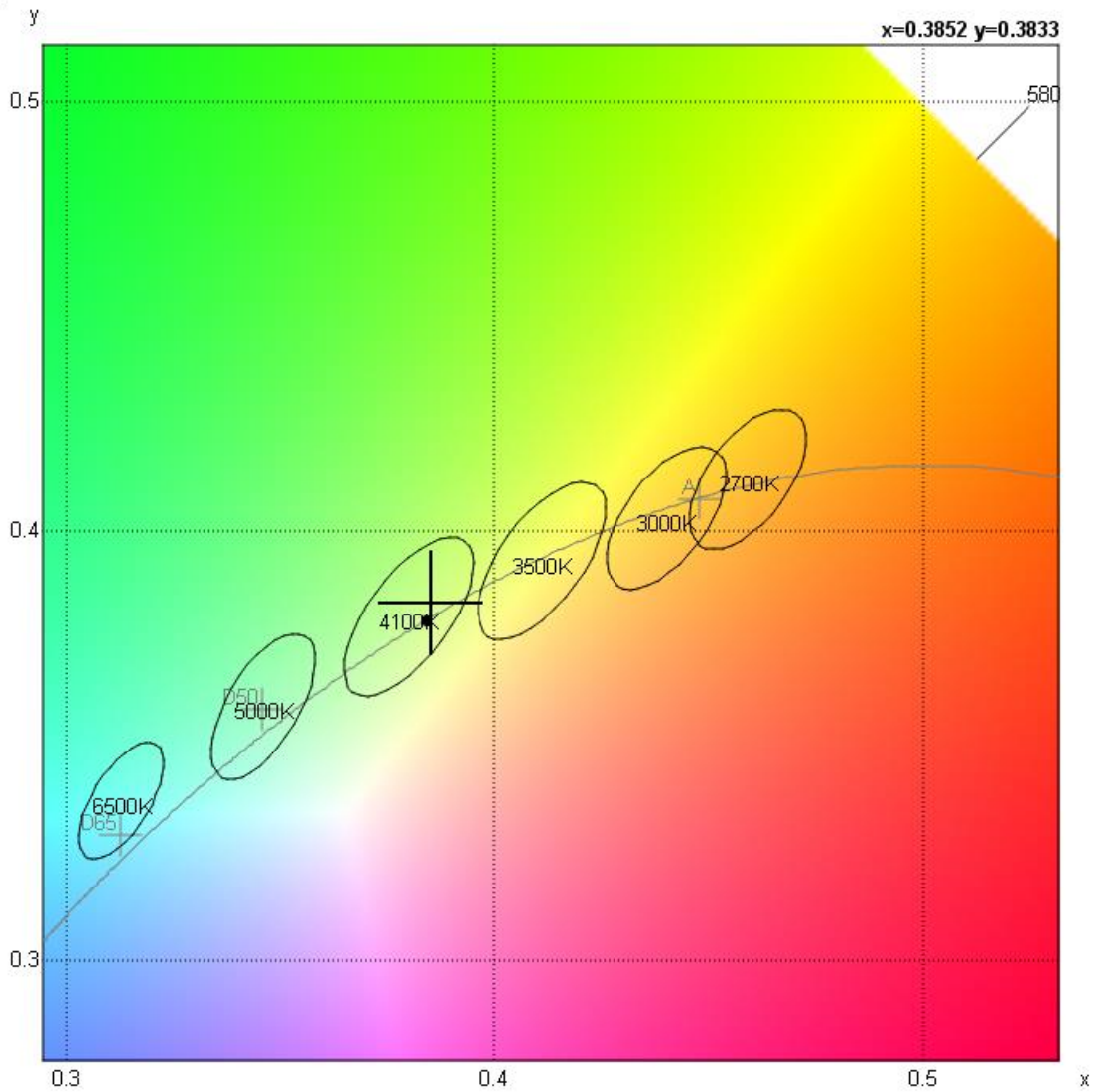
Total flux (utilized luminaire flux)	<i>14826,90 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>0,00 %</i>
Maximum luminous intensity	<i>10587,04 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>149,78 lm/W</i>

Light intensity distribution diagram

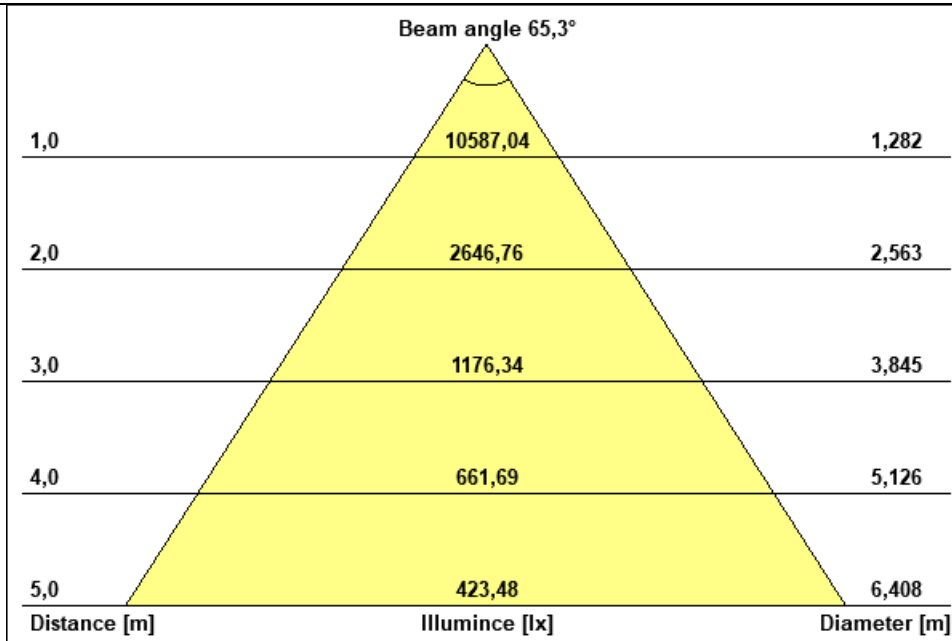


CIE 1931 diagram

x 0,3852
 y 0,3833
 Angular Colour Uniformity 0,0000
 Binning 4100K



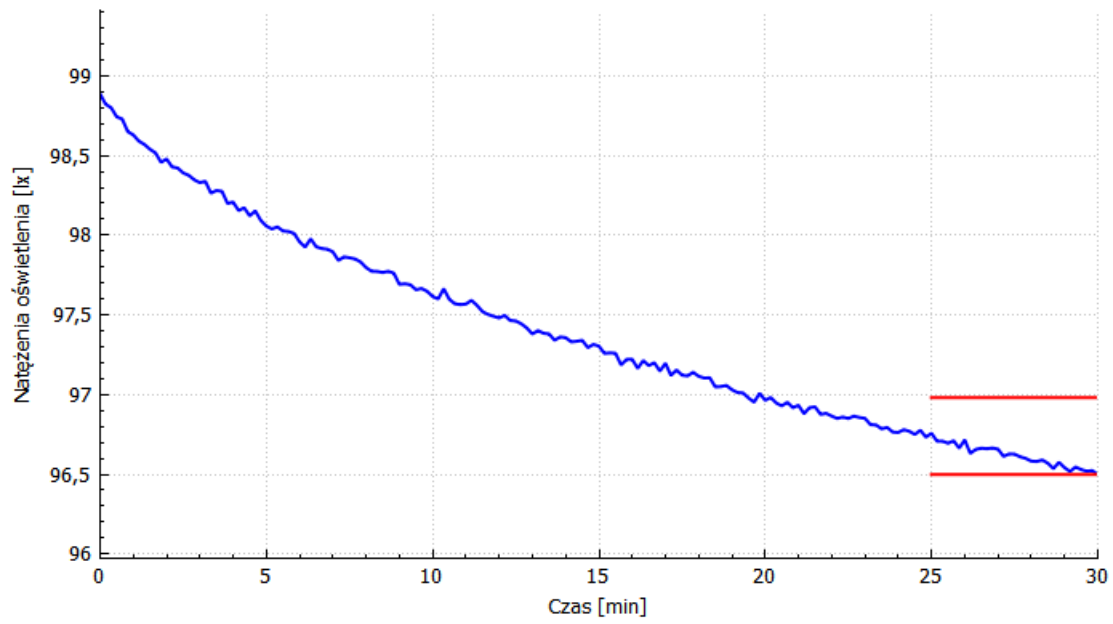
Beam cone



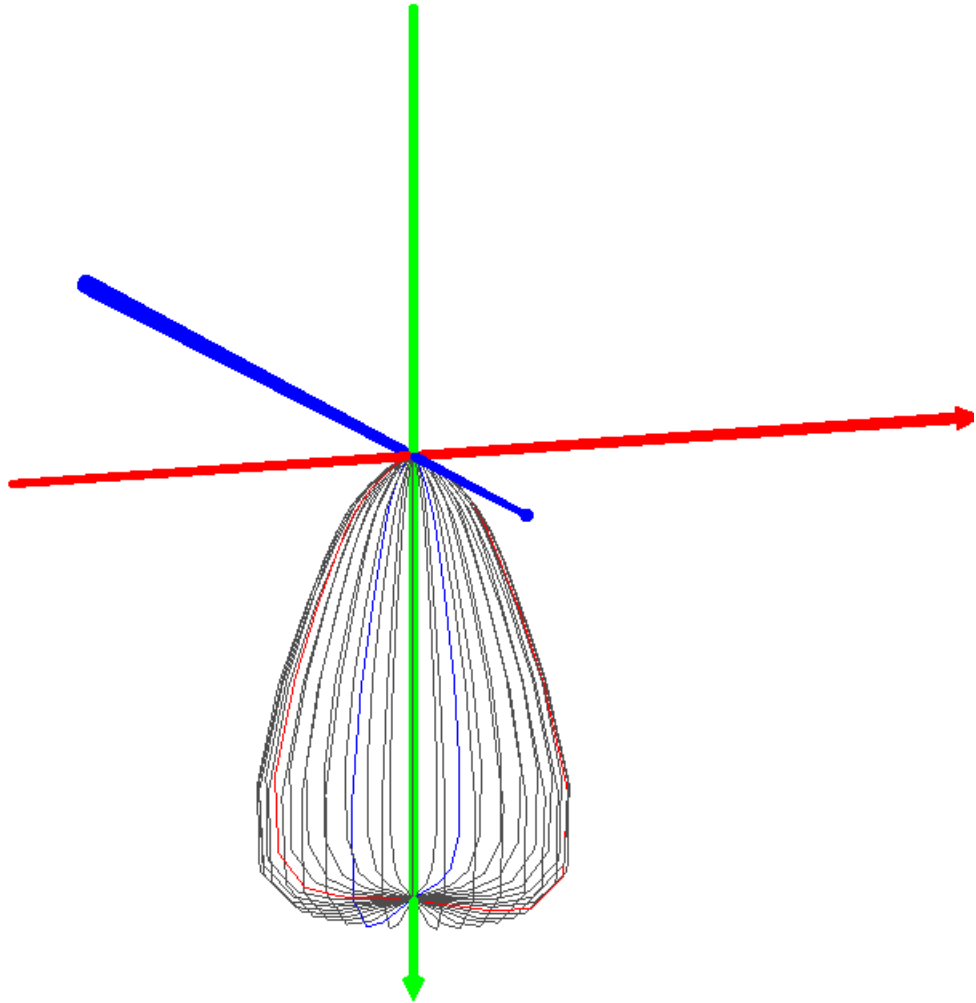
Distance [m]	Max illuminance [lx]	Diameter [m]
1	10587,0442	1,282
2	2646,7610	2,563
3	1176,3382	3,845
4	661,6903	5,126
5	423,4818	6,408

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	65,3°	15,0°	-32,7°	32,7°
0-180°	65,3°	15,0°	-32,6°	32,6°
90-270°	65,5°	15,0°	-32,7°	32,7°

Stabilization



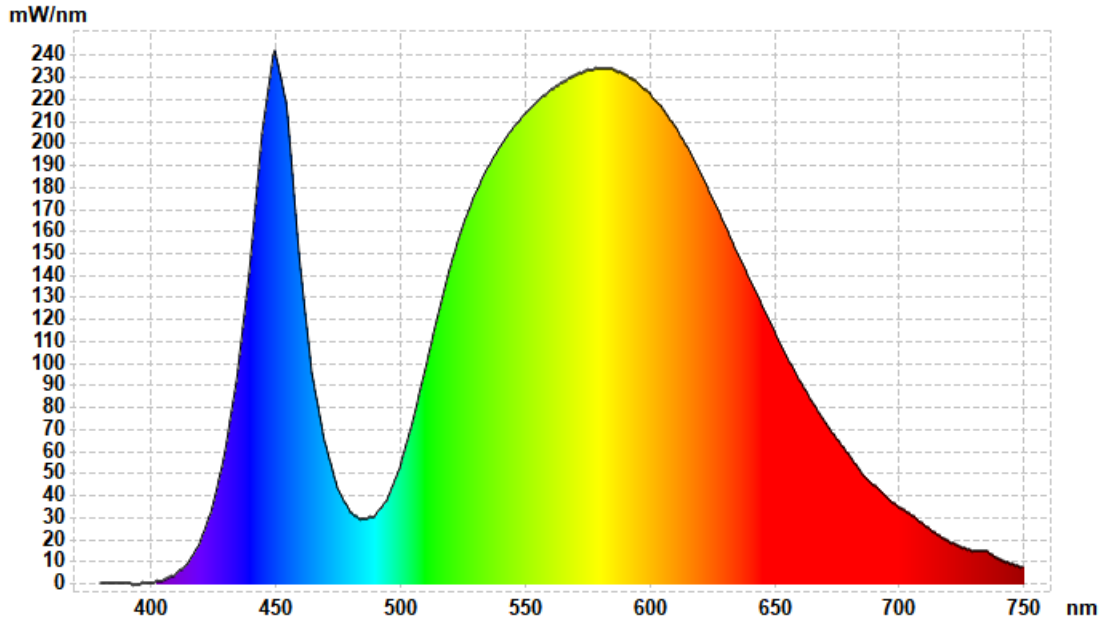
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3852	x	0,3928	CCT	3923
y	0,3833	y	0,3744	Chromaticity Error	0,005
Flux	14826,90 lm	u'	0,2343	Color Peak	450,92
		v'	0,5024	Color Peak Value	244,84
		L	100,00	Color Dominant	578,5
u'	0,2256	a	17,18	Luminous Intensity	0,00
v'	0,5052	b	33,27	Purity	
L	100,00	X	14871,83	Radiometric	39,4464
a	9,36	Y	14174,40	PAR	-
b	35,68	Z	8812,05	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	72,6	Ra	72,6	Mivis	2,1
R1	70,4	R8	57,5	Miuv	4,7
R2	78,5	R9	-16,2	Binning	
R3	83,2	R10	47,0	Binning	4100K
R4	71,6	R11	65,3	Brightness	
R5	68,8	R12	37,4		
R6	68,0	R13	71,4		
R7	83,1	R14	90,0		