

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 120° RAIDER*
Item No: *470805*
Serial No.: *10003*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B1409*
LuminaireName: *High-Bay UFO 150W 150lm/W 4000K 1-10V 120° RAIDER*
LuminaireNumber: *470805*
FileName: *B1409_470805_10003_G_20200617_R_P*
Date: *2020-06-17*

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: 22235,70 lm
 Color temperatur: 3904.56 K
 Color rendering index: 72,27
 Wattage including ballast: 147,41 W

Utilization factors:

k = 0.60 0,305
 k = 0.80 0,409
 k = 1.00 0,496
 k = 1.20 0,579
 k = 1.50 0,639
 k = 2.00 0,727
 k = 2.50 0,772
 k = 3.00 0,805
 k = 4.00 0,847
 k = 5.00 0,872

Electrical parameters

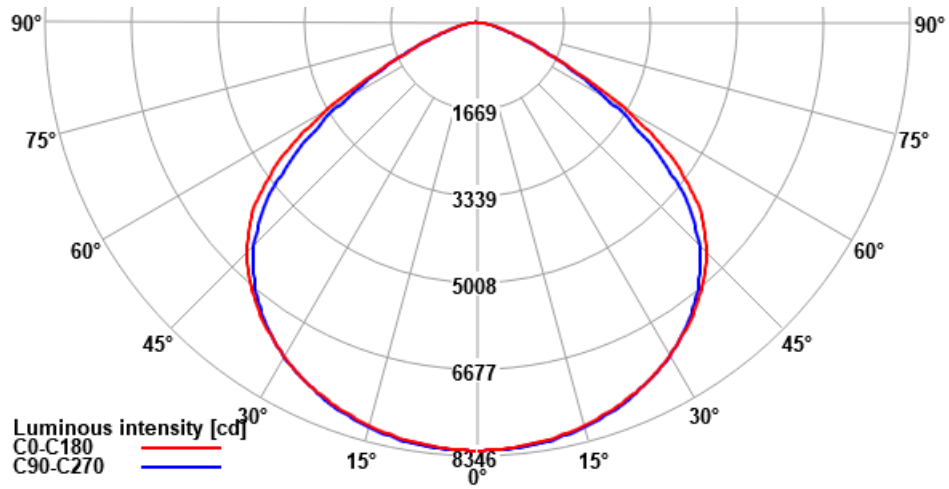
Power source: IT7321 300VA
 U = 230,018 V
 I = 0,651 A
 P = 147,409 W
 Power factor = 0,984

Temperature = 23.6 C

Goniometric measurement results

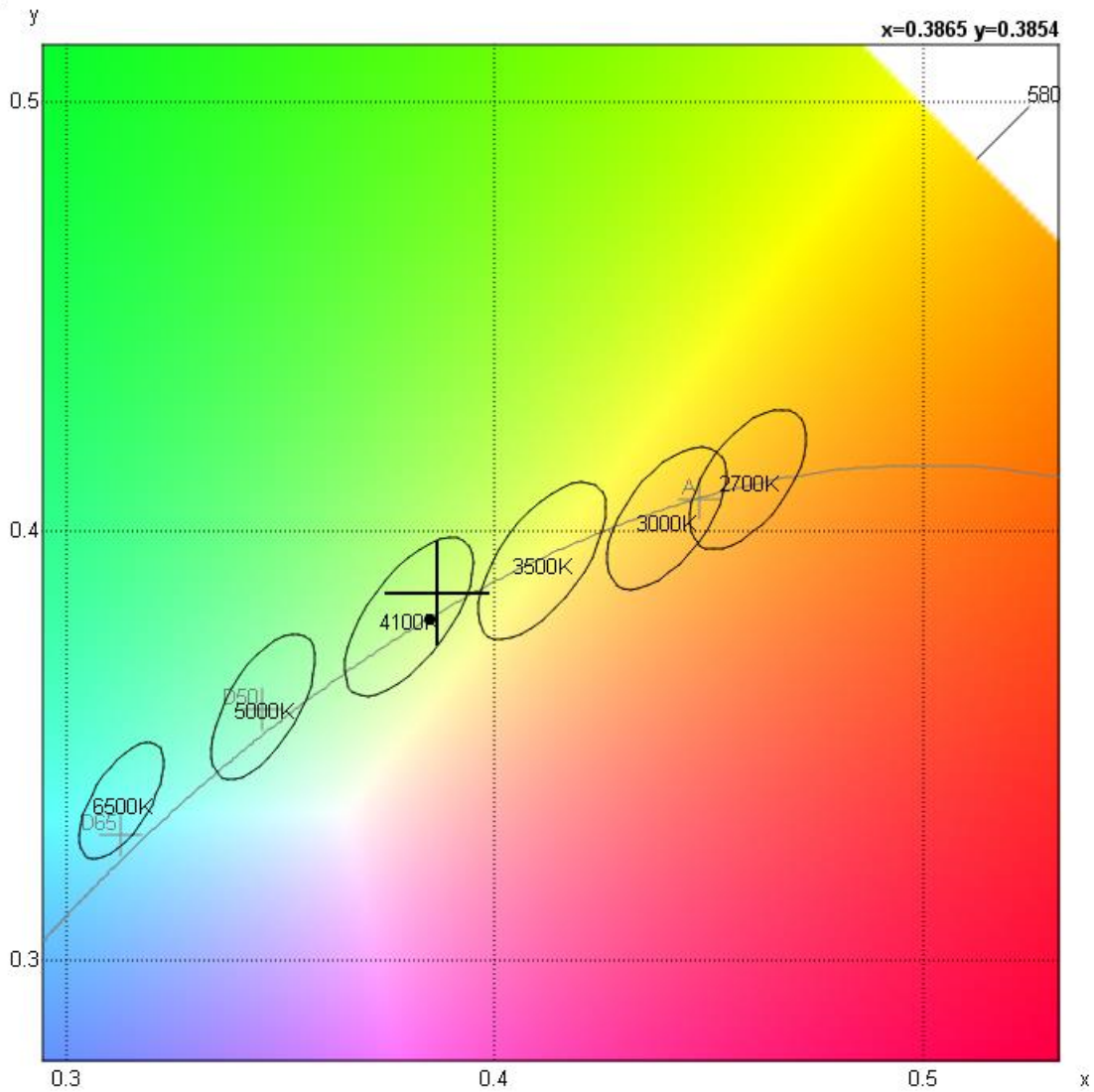
Total flux (utilized luminaire flux)	<i>22235,70 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>0,00 %</i>
Maximum luminous intensity	<i>8263,83 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>150,84 lm/W</i>

Light intensity distribution diagram

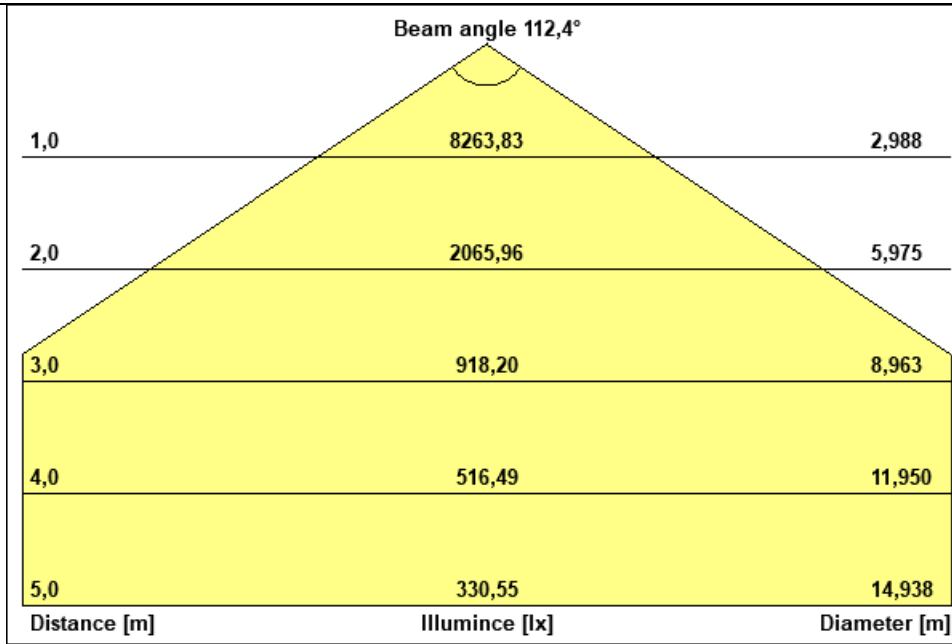


CIE 1931 diagram

x 0,3865
 y 0,3854
 Angular Colour Uniformity 0,0000
 Binning 4100K



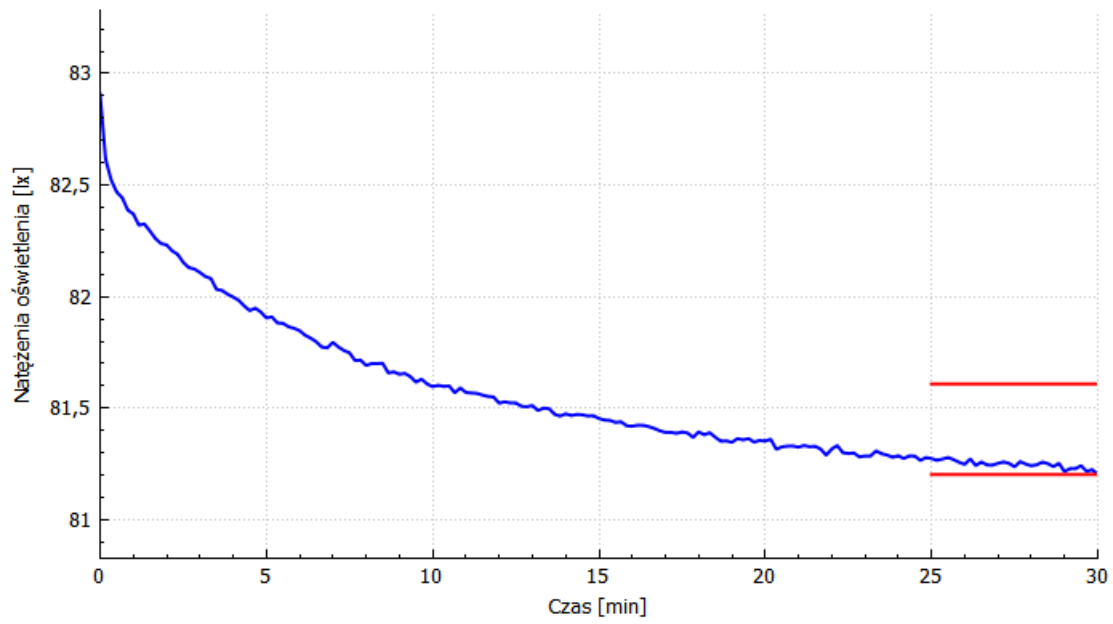
Beam cone



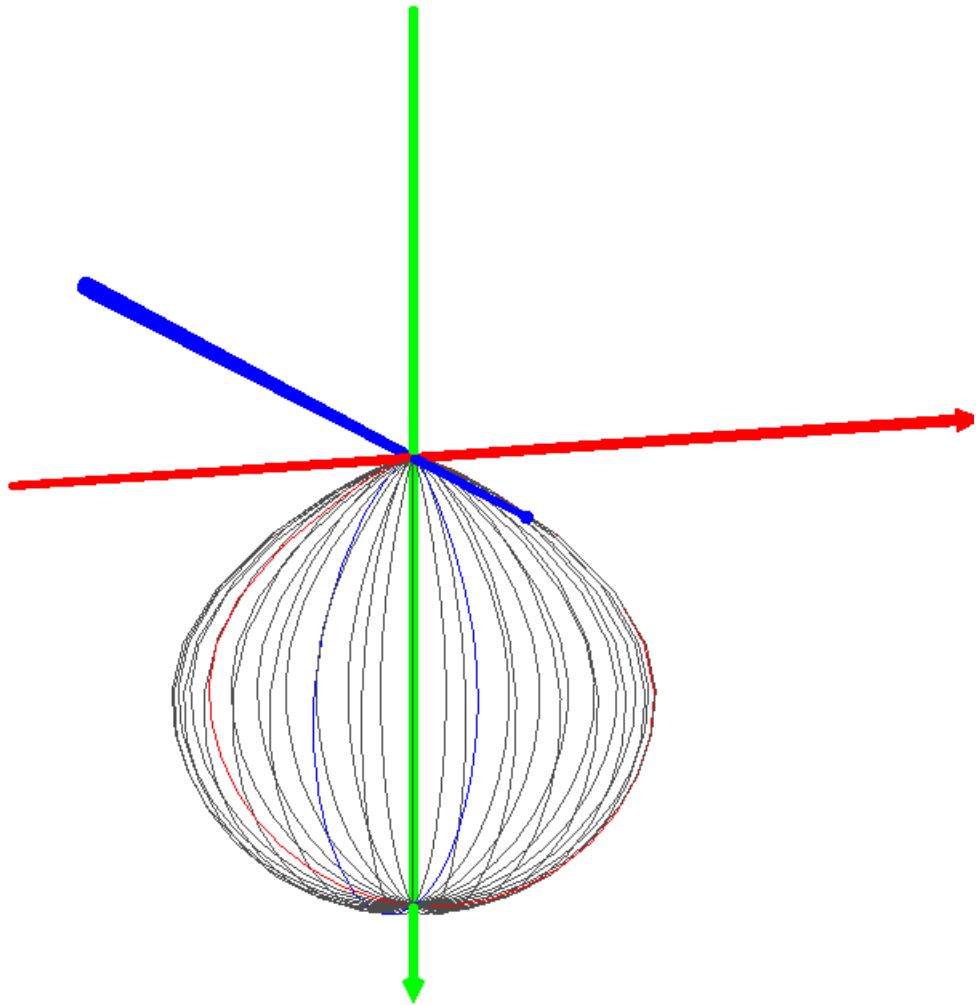
Distance [m]	Max illuminance [lx]	Diameter [m]
1	8263,8312	2,988
2	2065,9578	5,975
3	918,2035	8,963
4	516,4894	11,950
5	330,5532	14,938

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	112,4°	5,0°	-56,2°	56,2°
0-180°	113,9°	5,0°	-57,0°	57,0°
90-270°	109,7°	5,0°	-54,8°	54,8°

Stabilization



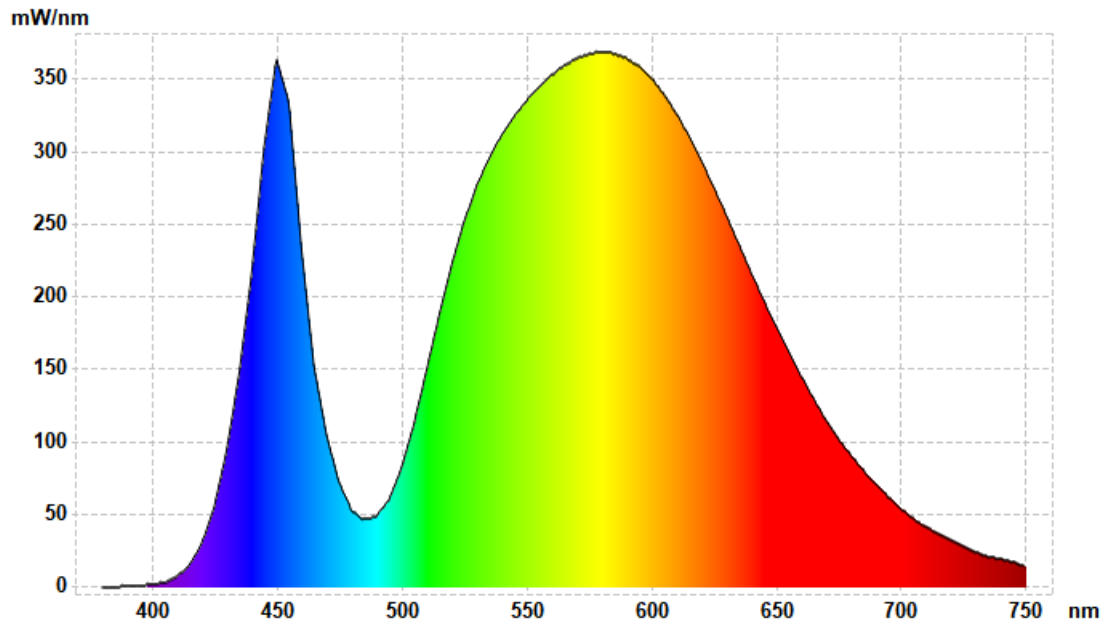
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3865	x	0,3943	CCT	3905
y	0,3854	y	0,3764	Chromaticity Error	0,005
Flux	22235,70 lm	u'	0,2344	Color Peak	580,18
		v'	0,5035	Color Peak Value	368,52
		L	100,00	Color Dominant	578,3
u'	0,2256	a	16,90	Luminous Intensity	0,00
v'	0,5062	b	34,41	Purity	
L	100,00	X	23306,74	Radiometric	61,7254
a	9,02	Y	22249,82	PAR	-
b	36,77	Z	13549,54	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	72,3	Ra	72,3	Mivis	2,1
R1	69,8	R8	56,7	Miuv	4,7
R2	78,3	R9	-18,3	Binning	
R3	83,4	R10	46,7	Binning	4100K
R4	71,1	R11	64,5	Brightness	
R5	68,2	R12	37,0		
R6	67,8	R13	70,8		
R7	83,0	R14	90,2		