

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 120° RAIDER*
Item No: *470768*
Serial No.: *10003*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B1407*
LuminaireName: *High-Bay UFO 200W 150lm/W 4000K 1-10V 120° RAIDER*
LuminaireNumber: *470812*
FileName: *B1407_470812_10003_G_20200616_R_P*
Date: *2020-06-16*

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: 29635,30 lm
 Color temperatur: 3926.65 K
 Color rendering index: 72,43
 Wattage including ballast: 197,49 W

Utilization factors:

k = 0.60 0,317
 k = 0.80 0,420
 k = 1.00 0,506
 k = 1.20 0,587
 k = 1.50 0,646
 k = 2.00 0,733
 k = 2.50 0,777
 k = 3.00 0,809
 k = 4.00 0,850
 k = 5.00 0,875

Electrical parameters

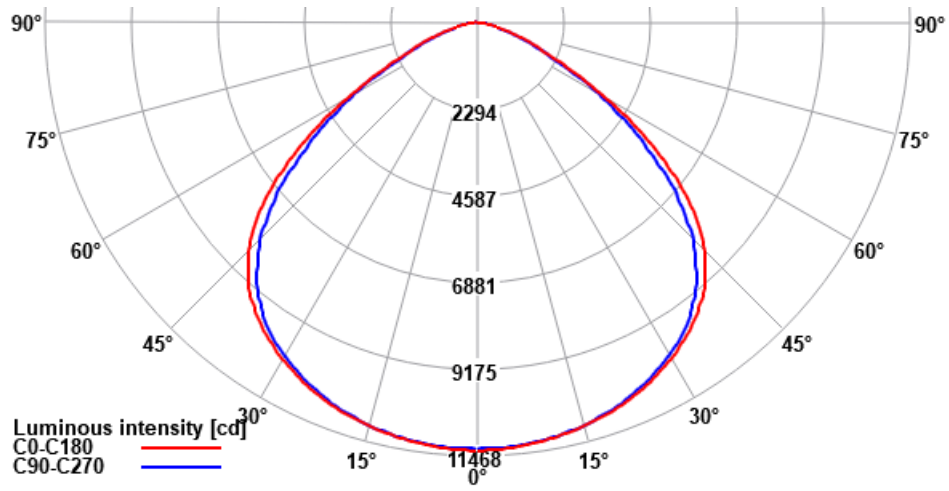
Power source: IT7321 300VA
 U = 229,979 V
 I = 0,875 A
 P = 197,491 W
 Power factor = 0,981

Temperature = 23.6 C

Goniometric measurement results

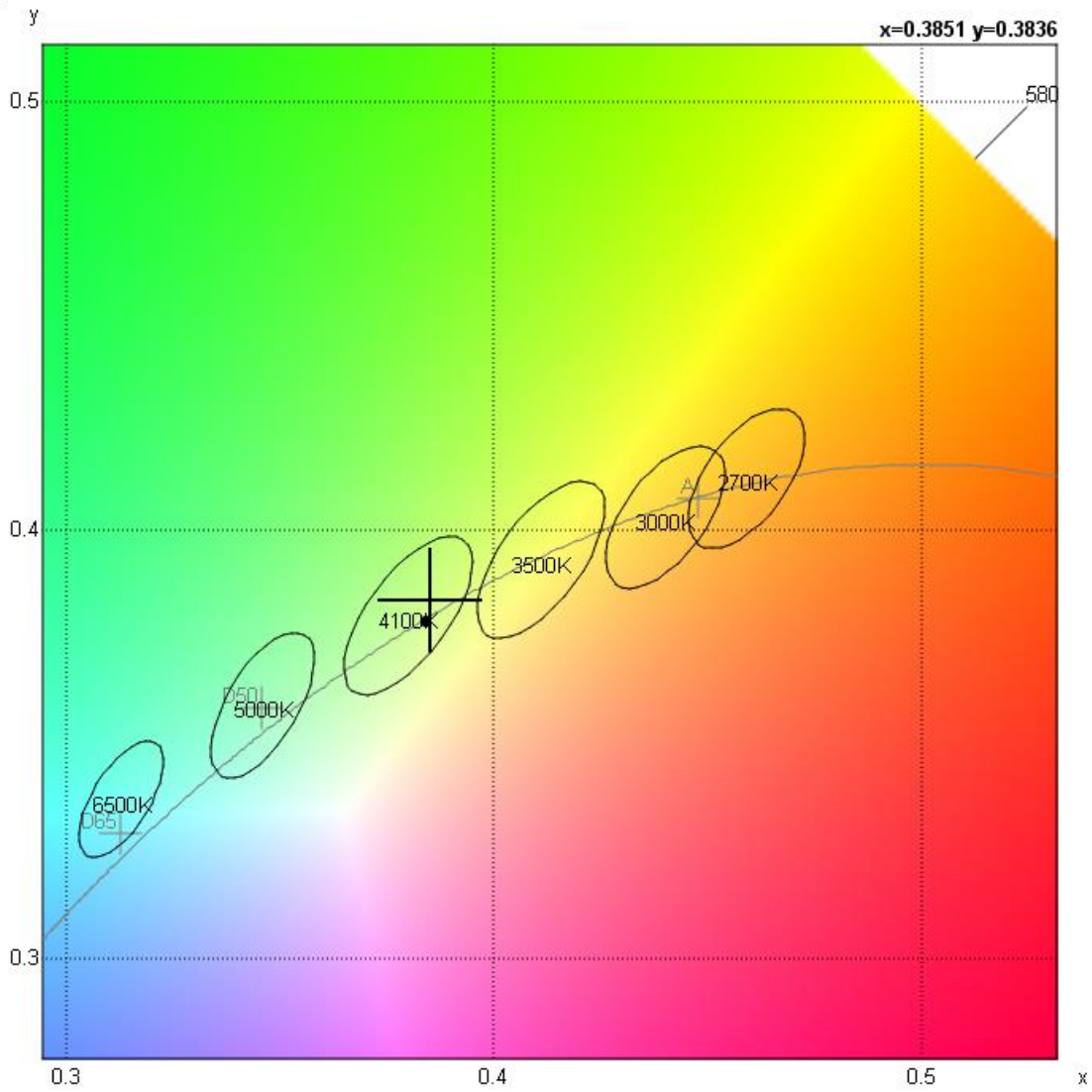
Total flux (utilized luminaire flux)	<i>29635,30 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>0,00 %</i>
Maximum luminous intensity	<i>11354,77 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>150,06 lm/W</i>

Light intensity distribution diagram

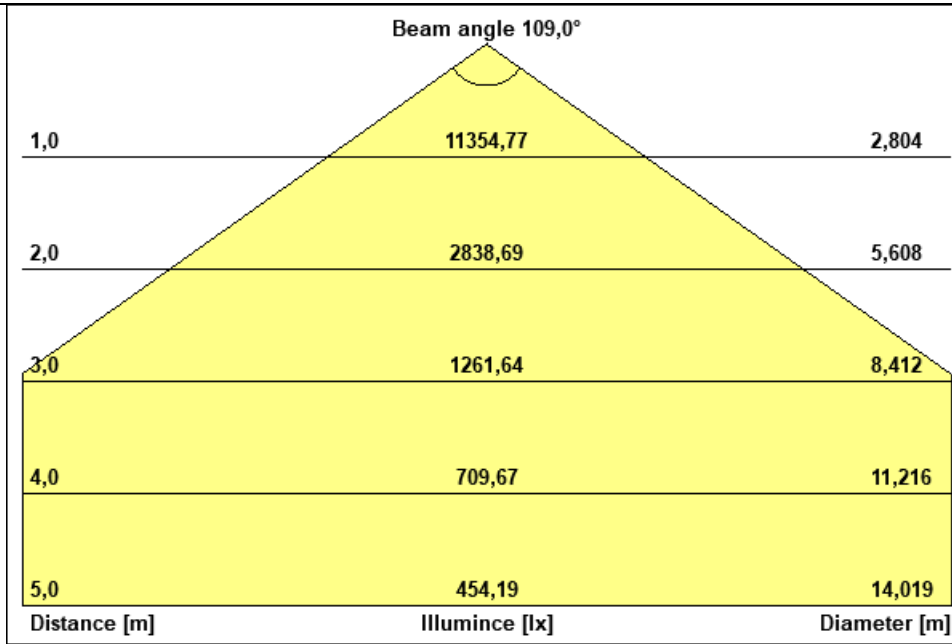


CIE 1931 diagram

x 0,3851
 y 0,3836
 Angular Colour Uniformity 0,0000
 Binning 4100K



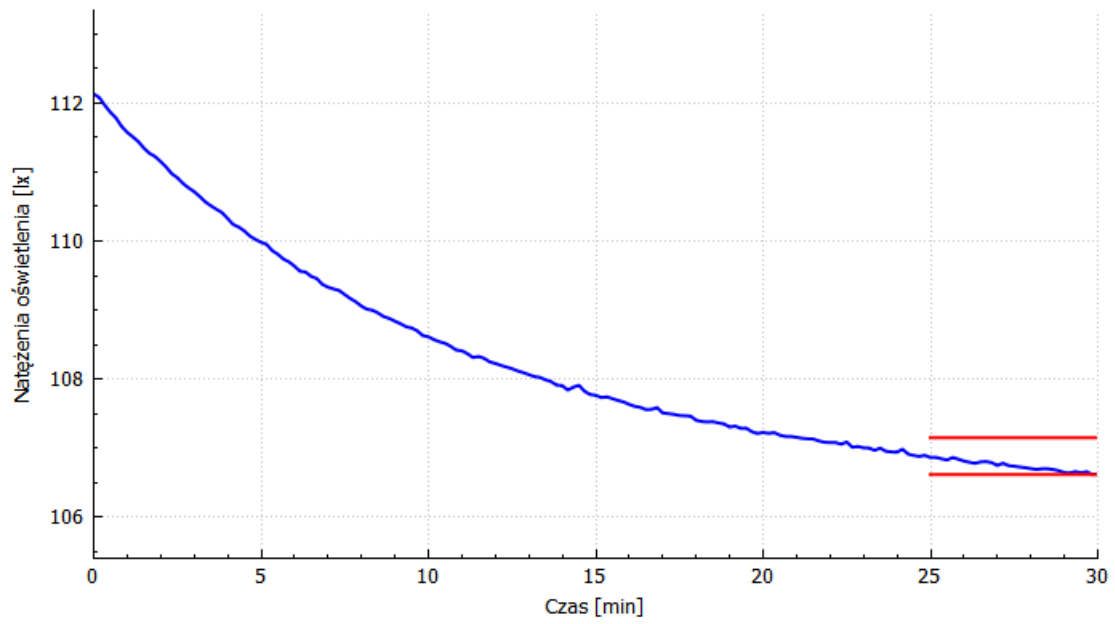
Beam cone



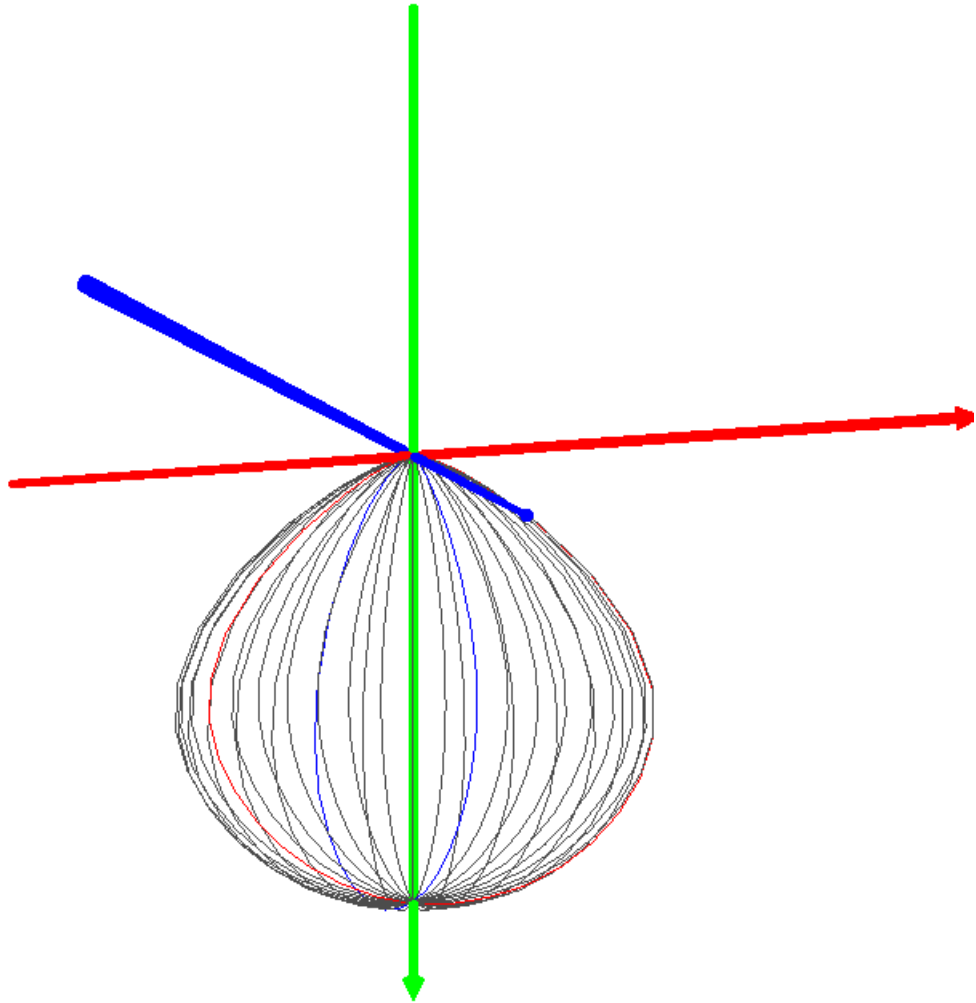
Distance [m]	Max illuminance [lx]	Diameter [m]
1	11354,7652	2,804
2	2838,6913	5,608
3	1261,6406	8,412
4	709,6728	11,216
5	454,1906	14,019

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	109,0°	5,0°	-54,5°	54,5°
0-180°	110,2°	5,0°	-55,1°	55,1°
90-270°	107,1°	5,0°	-53,5°	53,5°

Stabilization



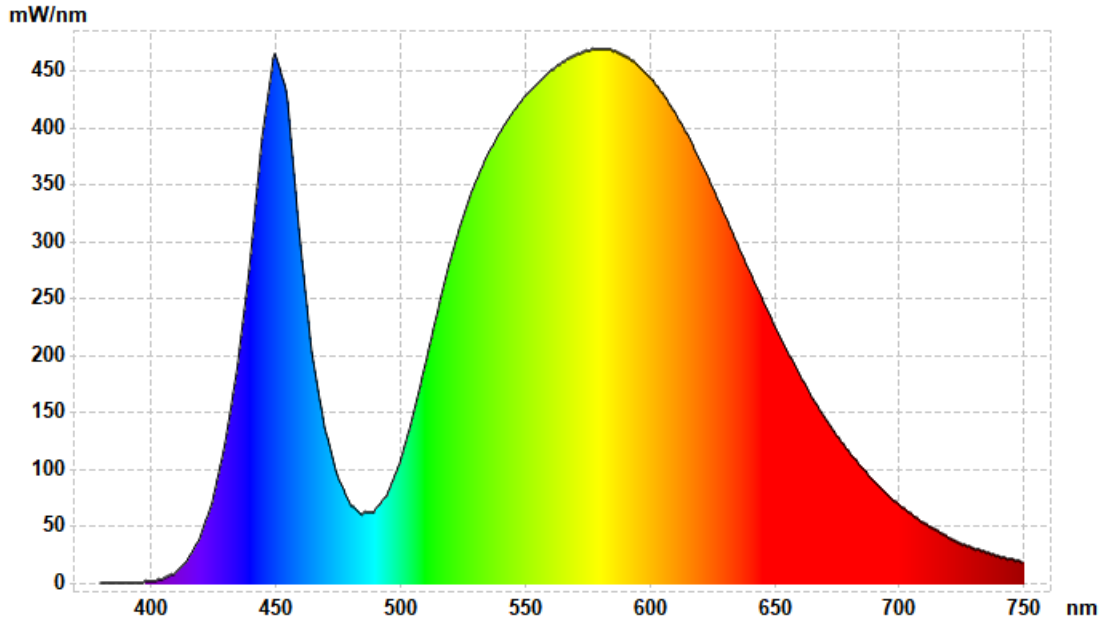
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3851	x	0,3928	CCT	3927
y	0,3836	y	0,3748	Chromaticity Error	0,005
Flux	29635,30 lm	u'	0,2341	Color Peak	450,92
		v'	0,5026	Color Peak Value	471,97
		L	100,00	Color Dominant	578,4
u'	0,2254	a	16,99	Luminous Intensity	0,00
v'	0,5053	b	33,43	Purity	
L	100,00	X	29699,03	Radiometric	78,8708
a	9,20	Y	28336,70	PAR	-
b	35,77	Z	17566,86	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	72,4	Ra	72,4	Mivis	2,1
R1	70,0	R8	56,9	Miuv	4,7
R2	78,5	R9	-17,7	Binning	
R3	83,5	R10	47,1	Binning	4100K
R4	71,1	R11	64,5	Brightness	
R5	68,4	R12	37,5		
R6	68,0	R13	71,1		
R7	83,1	R14	90,3		