

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 90° RAIDER*
Item No: *470782*
Serial No.: *10003*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B1410*
LuminaireName: *High-Bay UFO 200W 150lm/W 4000K 1-10V 90° RAIDER*
LuminaireNumber: *470782*
FileName: *B1410_470782_10003_G_20200617_R_P*
Date: *2020-06-17*

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: 29667,00 lm
 Color temperatur: 3910.63 K
 Color rendering index: 72,36
 Wattage including ballast: 195,26 W

Utilization factors:

k = 0.60 0,412
 k = 0.80 0,502
 k = 1.00 0,580
 k = 1.20 0,650
 k = 1.50 0,702
 k = 2.00 0,780
 k = 2.50 0,814
 k = 3.00 0,841
 k = 4.00 0,877
 k = 5.00 0,898

Electrical parameters

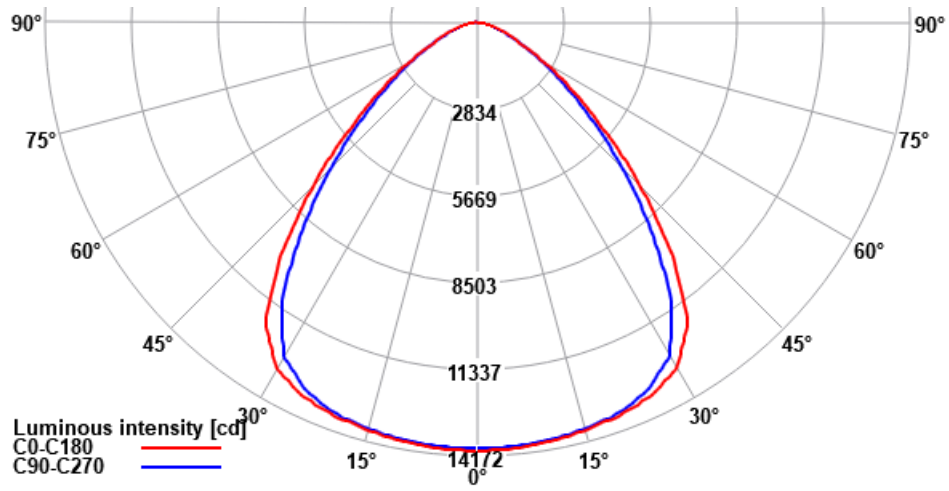
Power source: IT7321 300VA
 U = 229,986 V
 I = 0,865 A
 P = 195,259 W
 Power factor = 0,981

Temperature = 24.1 C

Goniometric measurement results

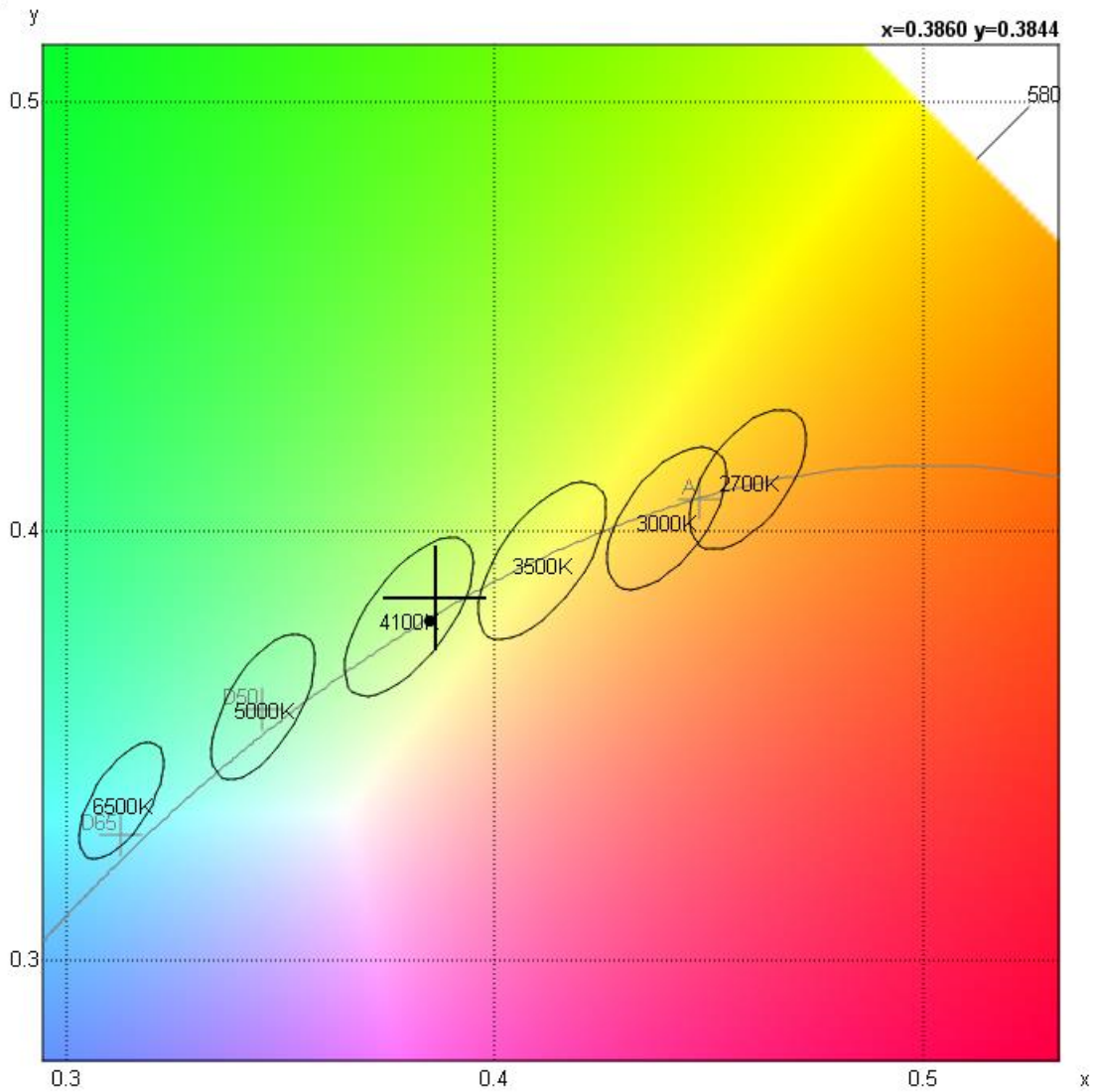
Total flux (utilized luminaire flux)	<i>29667,00 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>-0,00 %</i>
Maximum luminous intensity	<i>14031,27 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>151,94 lm/W</i>

Light intensity distribution diagram

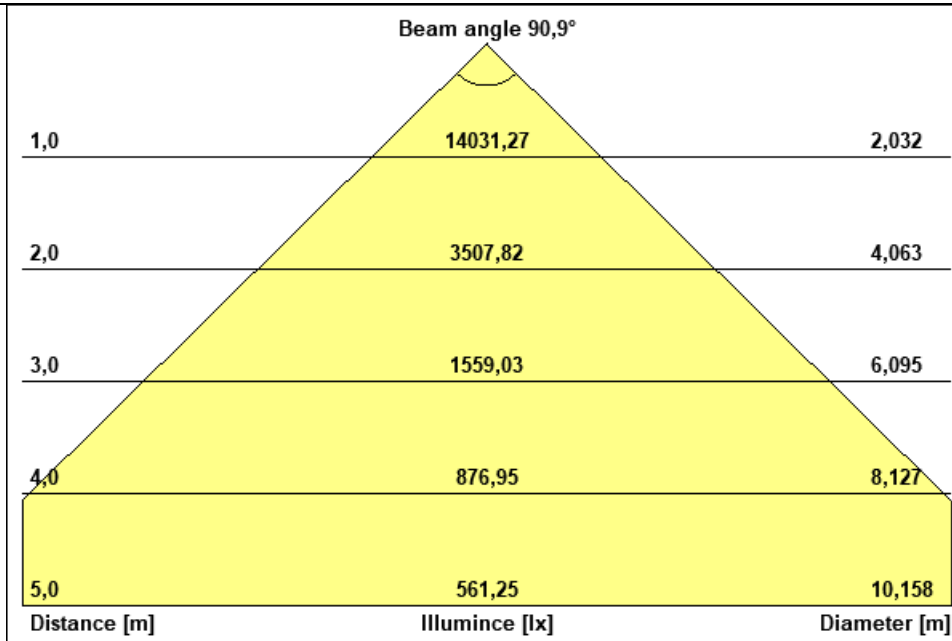


CIE 1931 diagram

x 0,3860
 y 0,3844
 Angular Colour Uniformity 0,0000
 Binning 4100K



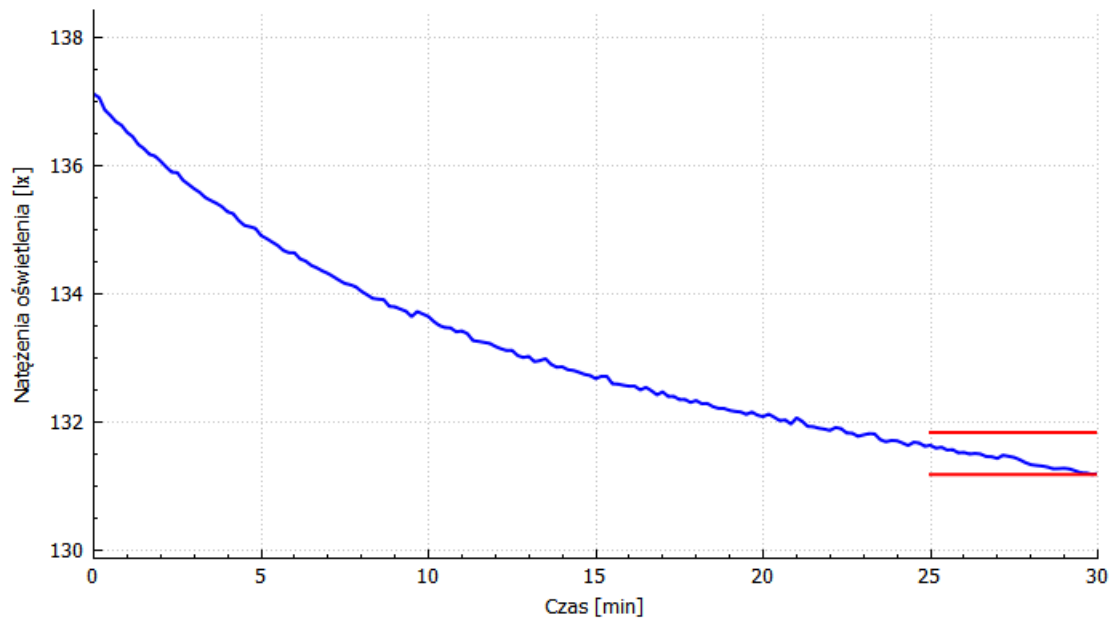
Beam cone



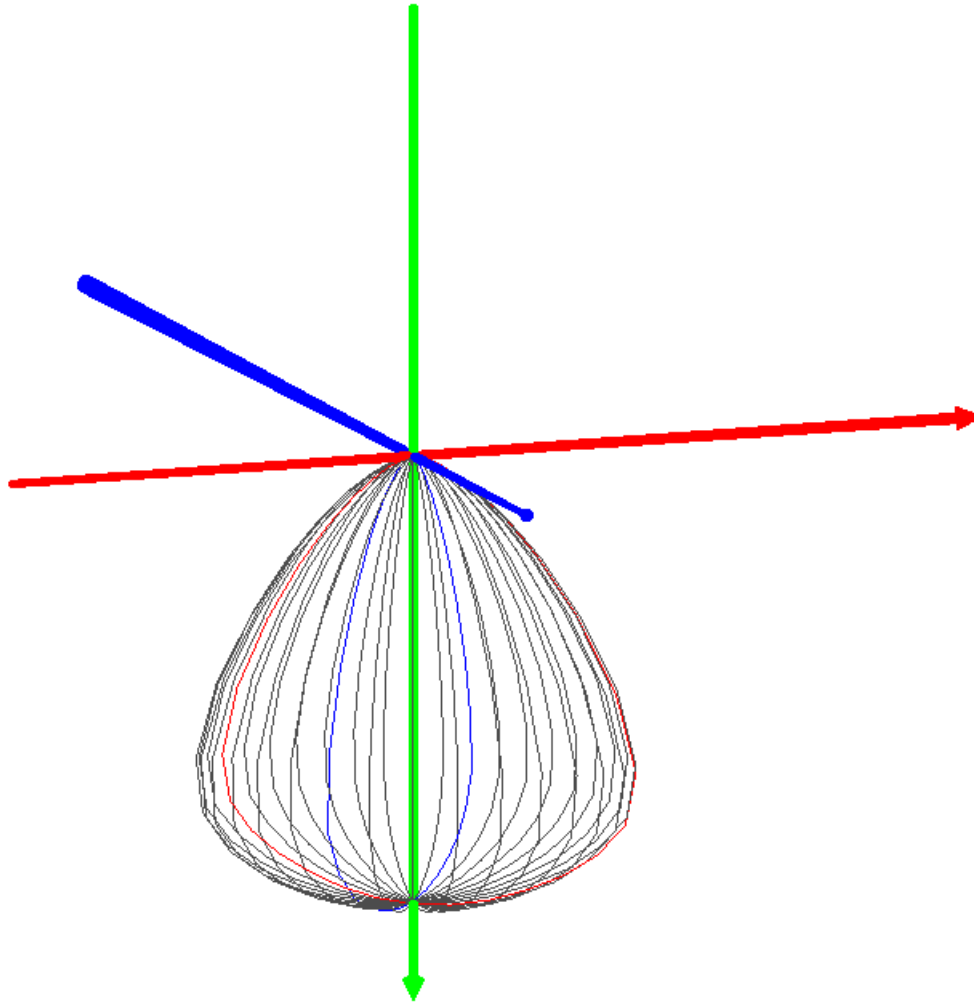
Distance [m]	Max illuminance [lx]	Diameter [m]
1	14031,2747	2,032
2	3507,8187	4,063
3	1559,0305	6,095
4	876,9547	8,127
5	561,2510	10,158

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	90,9°	5,0°	-45,5°	45,5°
0-180°	92,5°	5,0°	-46,2°	46,2°
90-270°	88,7°	5,0°	-44,4°	44,4°

Stabilization



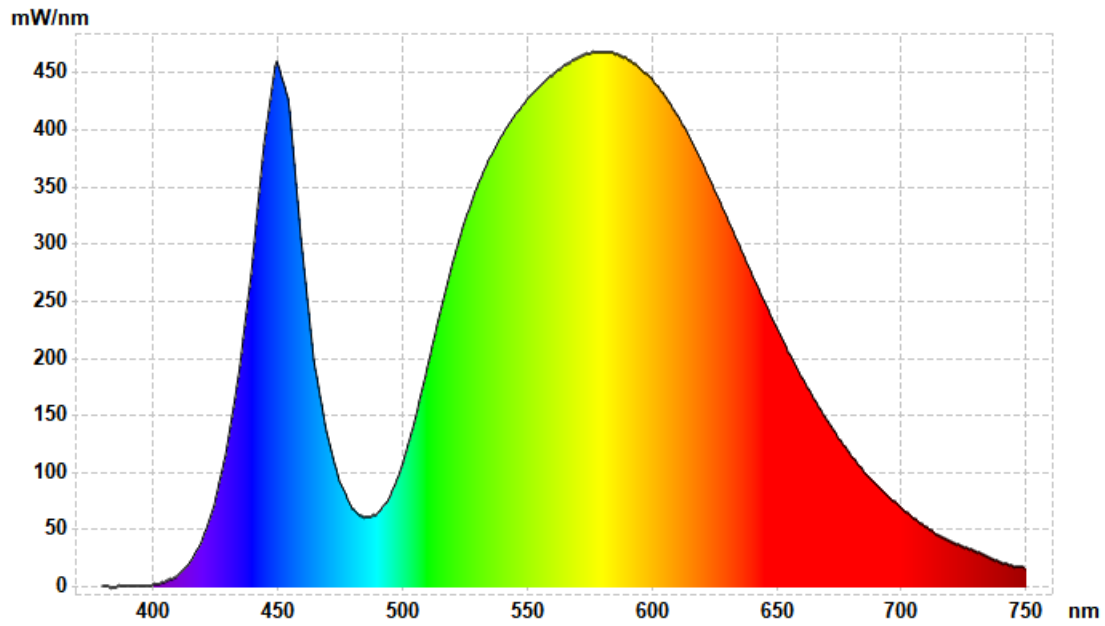
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3860	x	0,3937	CCT	3911
y	0,3844	y	0,3755	Chromaticity Error	0,005
Flux	29667,00 lm	u'	0,2344	Color Peak	581,92
		v'	0,5030	Color Peak Value	467,94
		L	100,00	Color Dominant	578,4
u'	0,2257	a	17,07	Luminous Intensity	0,00
v'	0,5057	b	33,90	Purity	
L	100,00	X	29616,93	Radiometric	78,4854
a	9,24	Y	28246,25	PAR	-
b	36,26	Z	17362,96	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	72,4	Ra	72,4	Mivis	2,1
R1	69,9	R8	56,8	Miuv	4,7
R2	78,4	R9	-17,8	Binning	
R3	83,5	R10	46,9	Binning	4100K
R4	71,1	R11	64,4	Brightness	
R5	68,3	R12	37,3		
R6	67,9	R13	71,0		
R7	83,0	R14	90,2		