

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 60° RAIDER*
Item No: *470775*
Serial No.: *10003*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B1408*
LuminaireName: *High-Bay UFO 150W 150lm/W 4000K 1-10V 60° RAIDER*
LuminaireNumber: *470775*
FileName: *B1408_470775_10003_G_20200618_R_P*
Date: *2020-06-18*

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: 22248,90 lm
 Color temperatur: 3919.39 K
 Color rendering index: 72,21
 Wattage including ballast: 147,77 W

Utilization factors:

k = 0.60 0,494
 k = 0.80 0,570
 k = 1.00 0,639
 k = 1.20 0,699
 k = 1.50 0,744
 k = 2.00 0,814
 k = 2.50 0,842
 k = 3.00 0,866
 k = 4.00 0,898
 k = 5.00 0,918

Electrical parameters

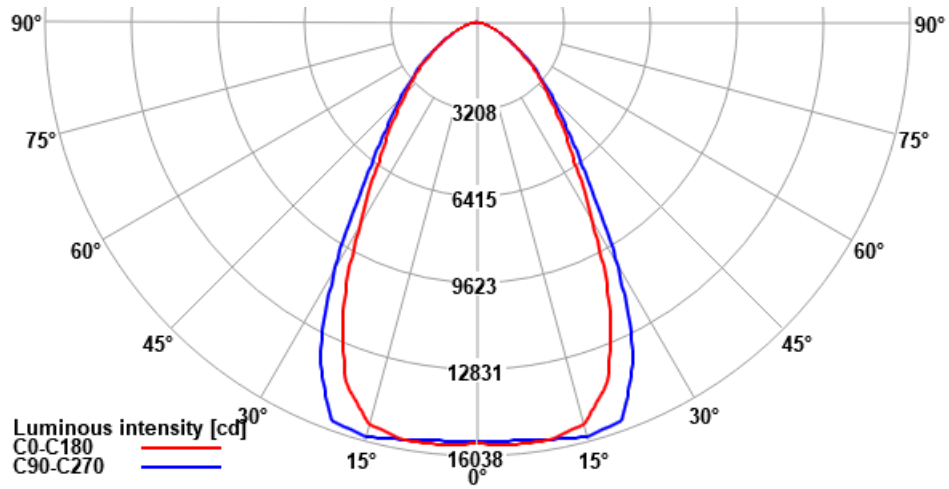
Power source: IT7321 300VA
 U = 230,032 V
 I = 0,653 A
 P = 147,775 W
 Power factor = 0,983

Temperature = 23.6 C

Goniometric measurement results

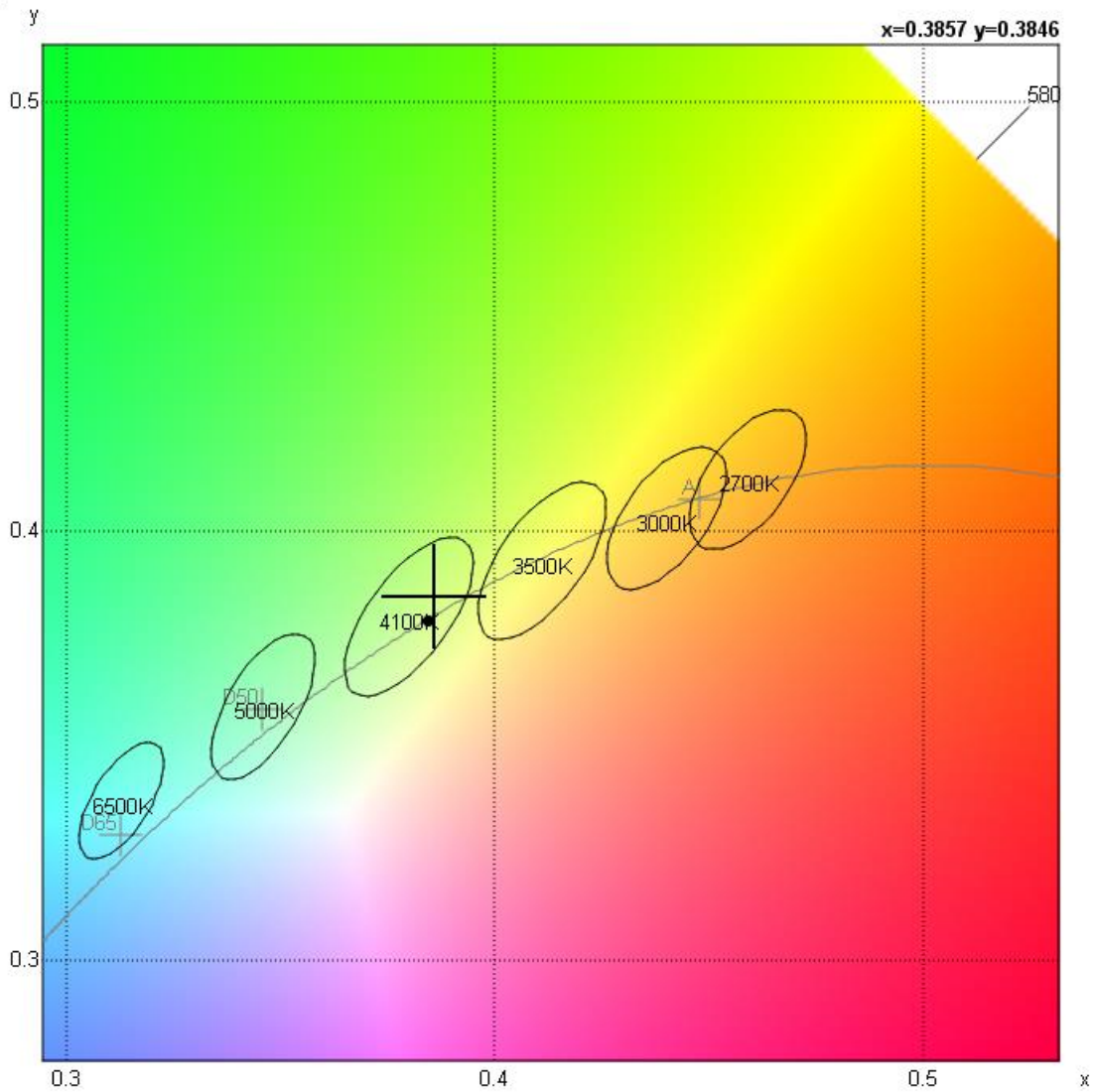
Total flux (utilized luminaire flux)	22248,90 lm
Flux in lower hemisphere	100,00 %
Flux in upper hemisphere	0,00 %
Maximum luminous intensity	15879,60 cd
Light output ratio (LOR)	100,00 %
Luminous efficacy	150,56 lm/W

Light intensity distribution diagram

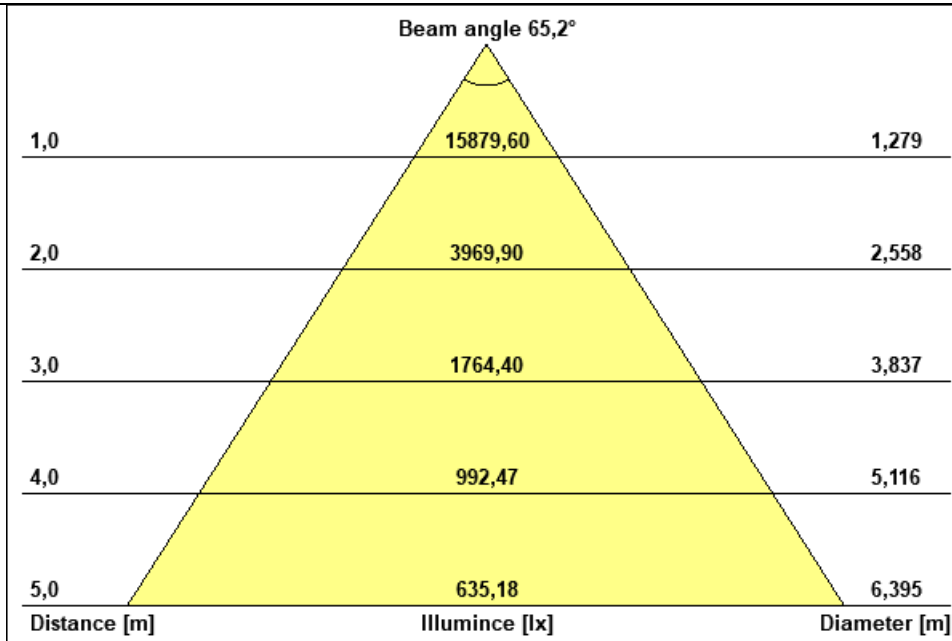


CIE 1931 diagram

x 0,3857
 y 0,3846
 Angular Colour Uniformity 0,0000
 Binning 4100K



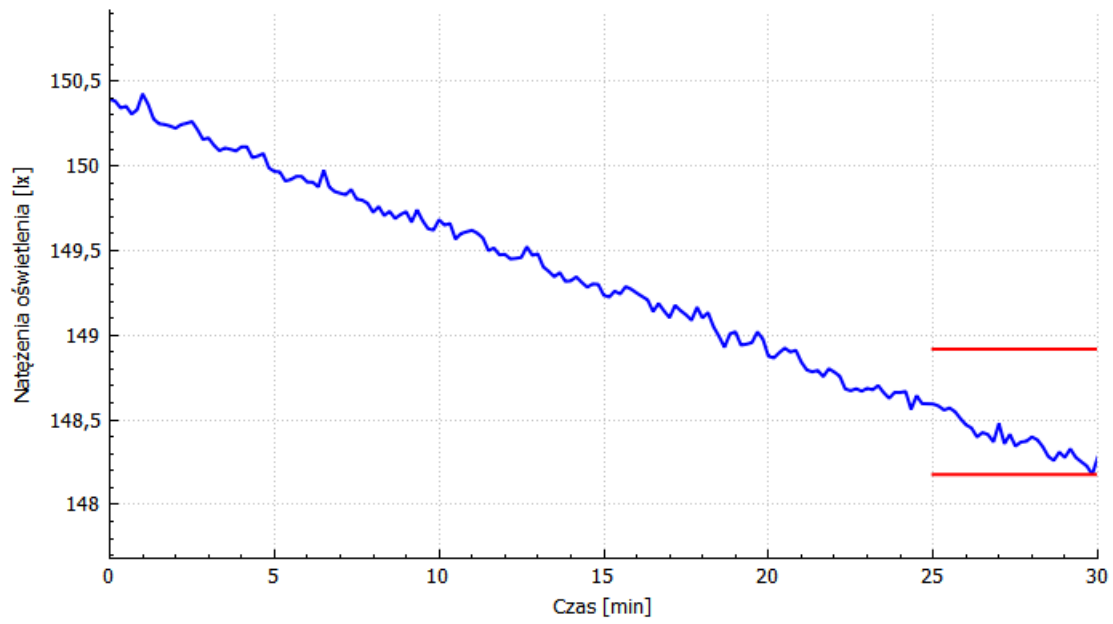
Beam cone



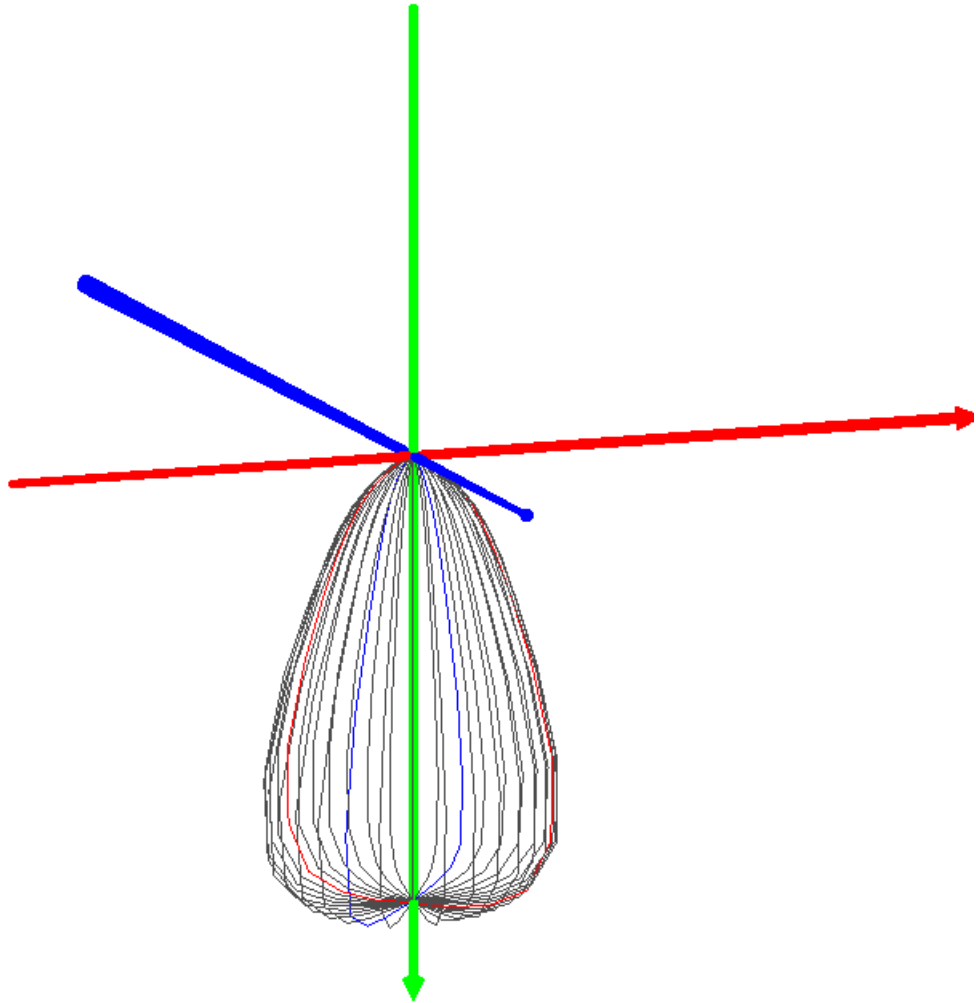
Distance [m]	Max illuminance [lx]	Diameter [m]
1	15879,5962	1,279
2	3969,8990	2,558
3	1764,3996	3,837
4	992,4748	5,116
5	635,1838	6,395

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	65,2°	11,1°	-32,6°	32,6°
0-180°	63,3°	5,0°	-31,6°	31,6°
90-270°	67,7°	15,0°	-33,8°	33,8°

Stabilization



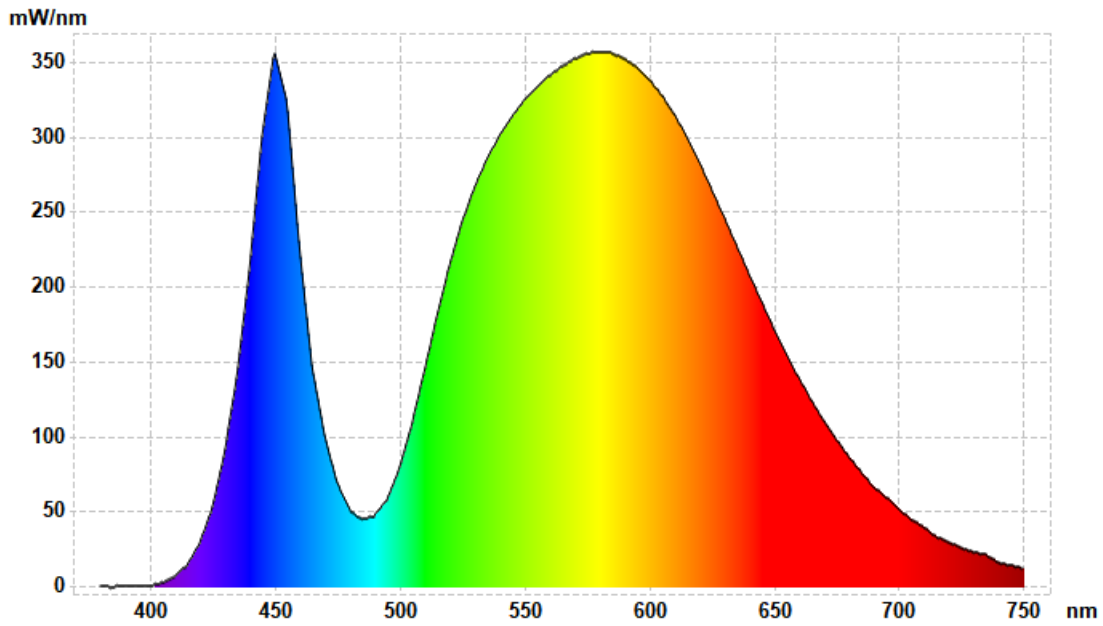
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3857	x	0,3935	CCT	3919
y	0,3846	y	0,3756	Chromaticity Error	0,005
Flux	22248,90 lm	u'	0,2342	Color Peak	450,92
		v'	0,5030	Color Peak Value	360,11
		L	100,00	Color Dominant	578,3
u'	0,2254	a	16,90	Luminous Intensity	0,00
v'	0,5058	b	33,88	Purity	
L	100,00	X	22545,27	Radiometric	59,6633
a	9,03	Y	21522,43	PAR	-
b	36,27	Z	13232,77	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	72,2	Ra	72,2	Mivis	2,1
R1	69,7	R8	56,6	Miuv	4,7
R2	78,2	R9	-18,7	Binning	
R3	83,4	R10	46,6	Binning	4100K
R4	71,0	R11	64,4	Brightness	
R5	68,1	R12	36,9		
R6	67,7	R13	70,8		
R7	82,9	R14	90,2		