

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *Oprawa High-Bay UFO 150W 130lm/W 4000K 60° RAIDER 130*
Item No: *470942*
Serial No.: *00202*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B1426*
LuminaireName: *Oprawa High-Bay UFO 150W 130lm/W 4000K 60° RAIDER 130*
LuminaireNumber: *470942*
FileName: *B1426_470942_00202_G_20200708_R_P*
Date: *2020-07-08*

Dimensions of luminaire

Length: *250 mm*
Width: *0 mm*
Height: *191 mm*

Dimensions of luminous area

Length: *180 mm*
Width: *0 mm*
C0-plane *10 mm*
C90-plane *10 mm*
C180-plane *10 mm*
C270-plane *10 mm*

Lamps:

Number of lamps: 1
 Type of lamps: 0
 Total luminous flux: 19259,20 lm
 Color temperatur: 4103.93 K
 Color rendering index: 84,14
 Wattage including ballast: 144,93 W

Utilization factors:

k = 0.60 0,487
 k = 0.80 0,563
 k = 1.00 0,632
 k = 1.20 0,693
 k = 1.50 0,738
 k = 2.00 0,809
 k = 2.50 0,837
 k = 3.00 0,861
 k = 4.00 0,894
 k = 5.00 0,914

Electrical parameters

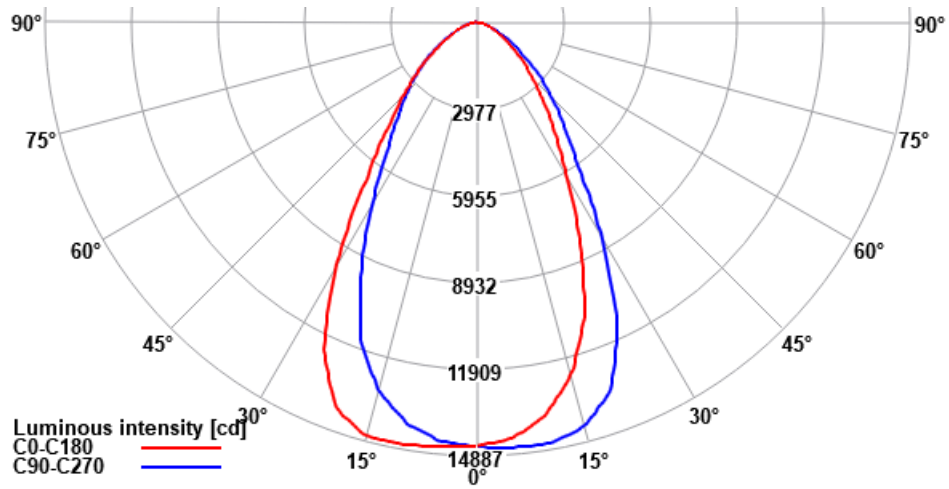
Power source: IT7321 300VA
 U = 230,071 V
 I = 0,641 A
 P = 144,928 W
 Power factor = 0,982

Temperature = 24,4 C

Goniometric measurement results

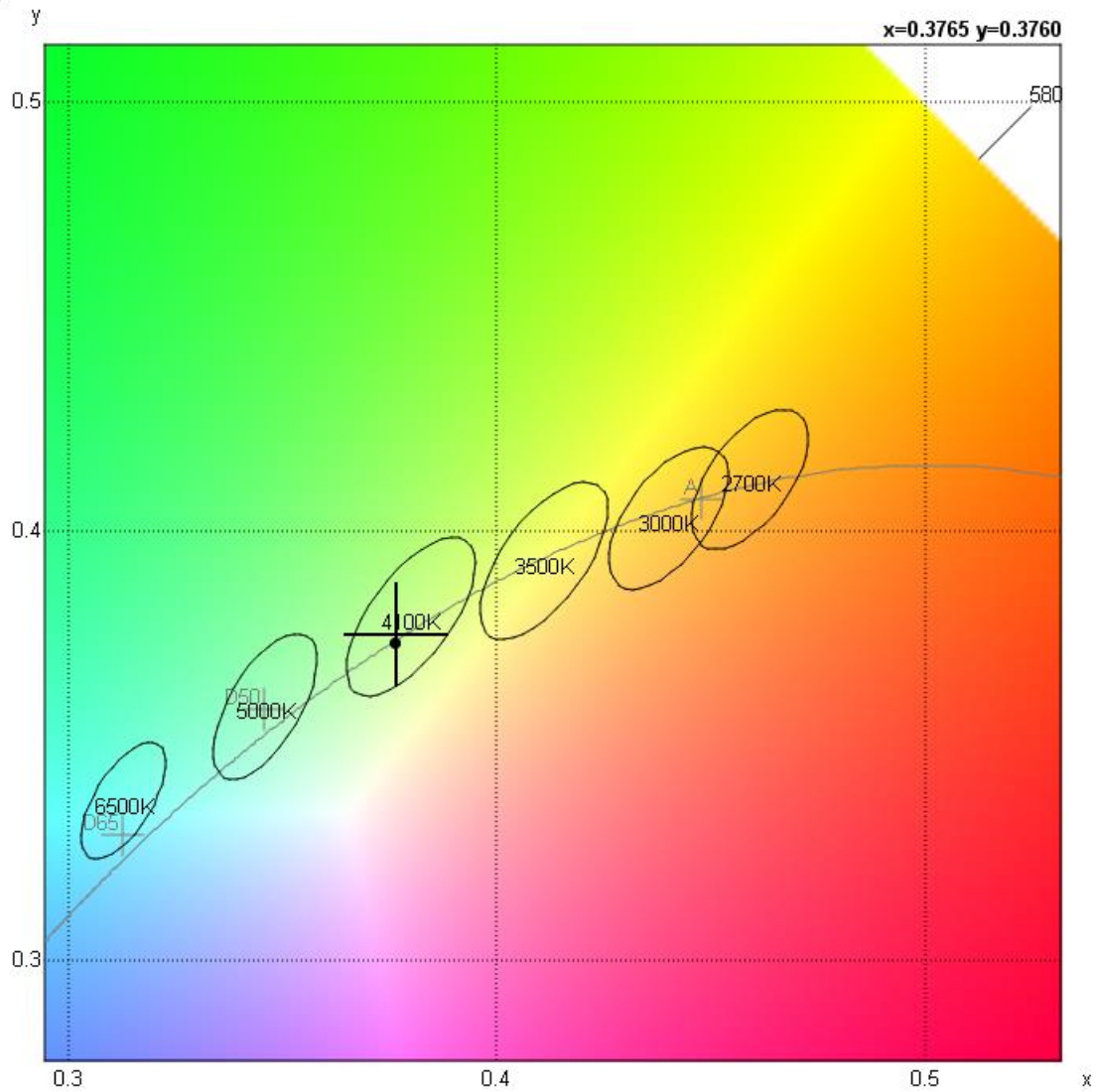
Total flux (utilized luminaire flux)	<i>19259,20 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>-0,00 %</i>
Maximum luminous intensity	<i>14848,38 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>132,89 lm/W</i>

Light intensity distribution diagram

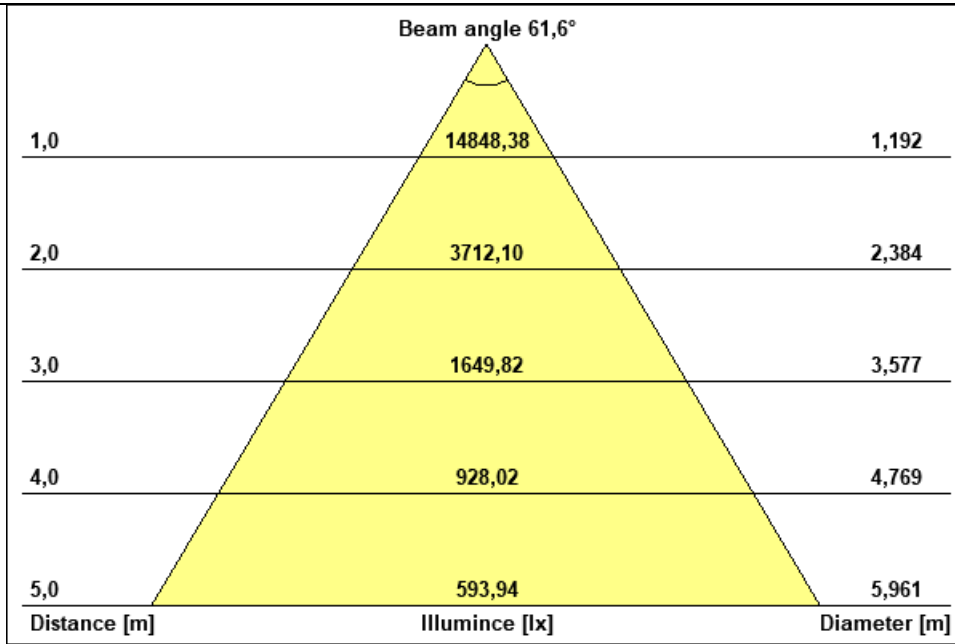


CIE 1931 diagram

x	0,3765
y	0,3760
Angular Colour Uniformity	0,0000
Binning	4100K



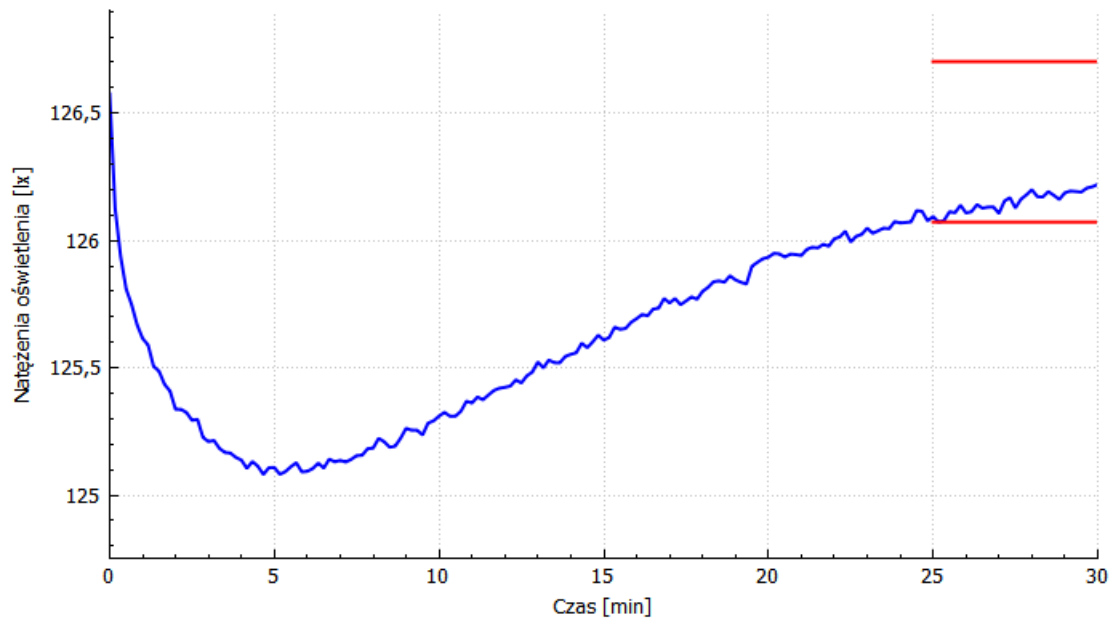
Beam cone



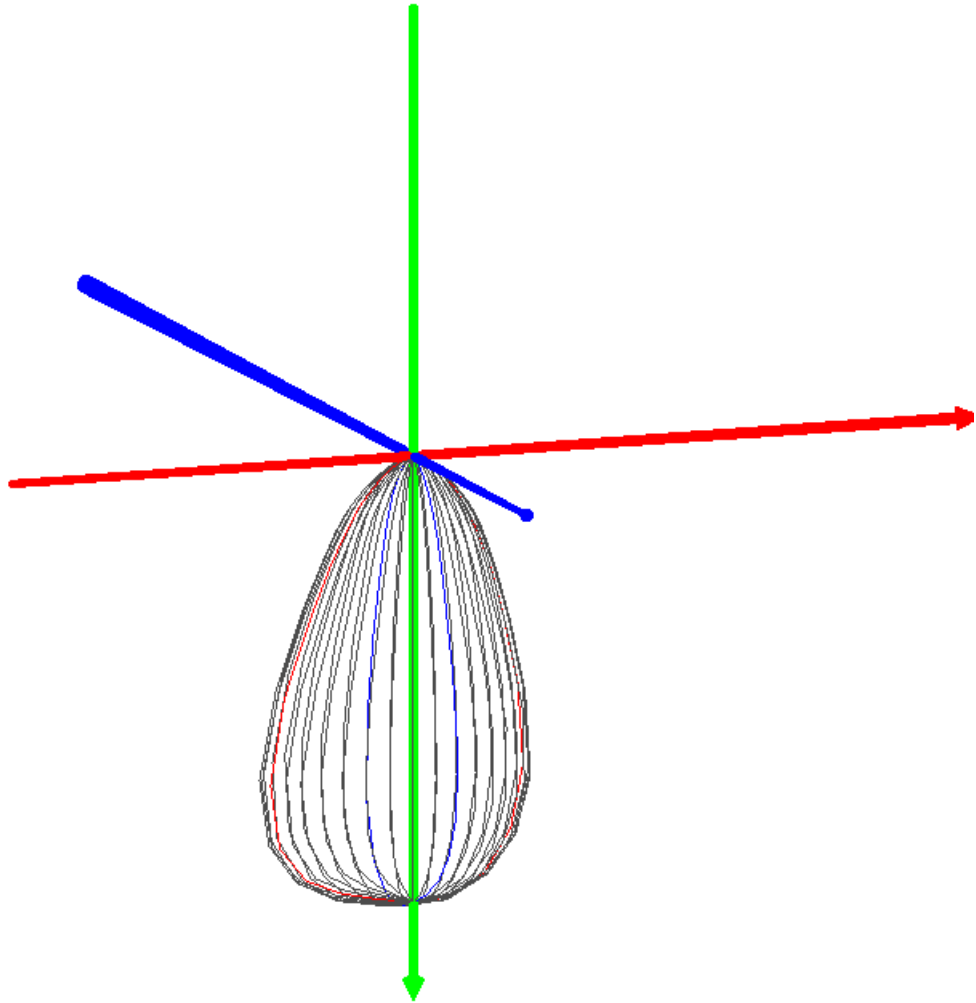
Distance [m]	Max illuminance [lx]	Diameter [m]
1	14848,3810	1,192
2	3712,0952	2,384
3	1649,8201	3,577
4	928,0238	4,769
5	593,9352	5,961

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	61,6°	4,7°	-30,3°	31,3°
0-180°	61,2°	-10,0°	-33,7°	27,4°
90-270°	62,0°	10,0°	-29,5°	32,5°

Stabilization



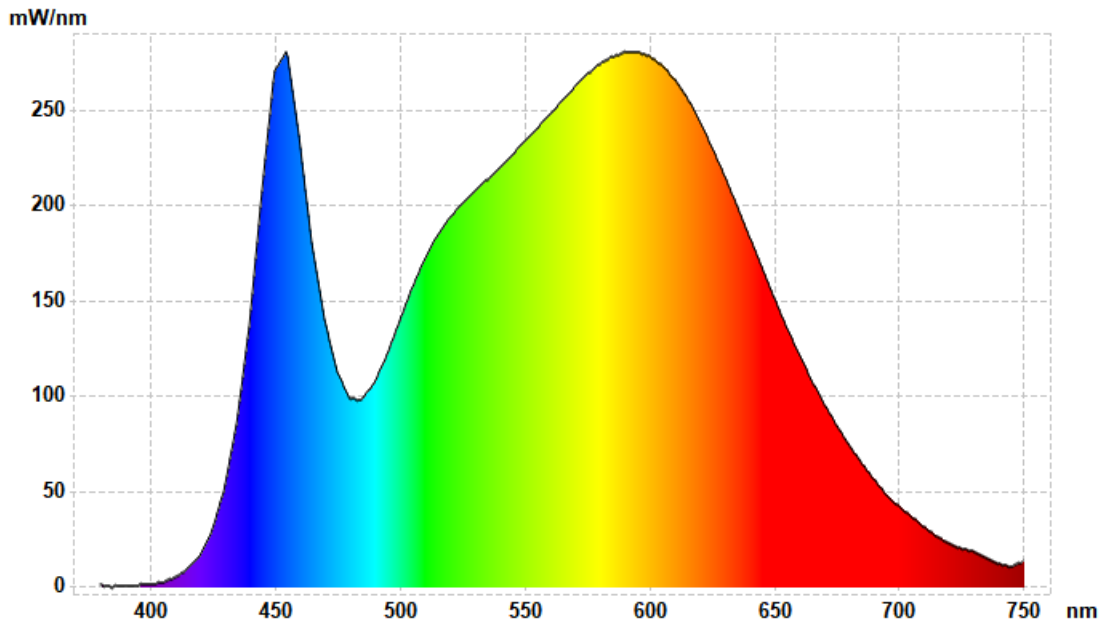
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3765	x	0,3826	CCT	4104
y	0,3760	y	0,3734	Chromaticity Error	0,002
Flux	19259,20 lm	u'	0,2279	Color Peak	452,76
		v'	0,5004	Color Peak Value	284,71
		L	100,00	Color Dominant	578,2
u'	0,2228	a	13,08	Luminous Intensity	0,00
v'	0,5007	b	30,49	Purity	
L	100,00	X	18075,13	Radiometric	50,9960
a	8,78	Y	17643,94	PAR	-
b	30,88	Z	11527,31	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	84,1	Ra	84,1	Mivis	1,8
R1	82,5	R8	67,1	Miuv	4,1
R2	90,3	R9	15,0	Binning	
R3	95,3	R10	76,3	Binning	4100K
R4	82,4	R11	81,0	Brightness	
R5	82,3	R12	63,0		
R6	86,0	R13	84,6		
R7	87,1	R14	97,6		