

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *OPTO 1mod 170st*
Item No: *243400*
Serial No.: *02412*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B211*
LuminaireName: *OPTO 1mod 170st*
LuminaireNumber: *243400*
FileName: *B211_243400_02412_G_20190205_R_P*
Date: *2019-02-05*

Dimensions of luminaire

Length: *21 mm*
Width: *33 mm*
Height: *9 mm*

Dimensions of luminous area

Length: *15 mm*
Width: *0 mm*
C0-plane *2 mm*
C90-plane *2 mm*
C180-plane *2 mm*
C270-plane *2 mm*

Lamps:

Number of lamps: 1
 Type of lamps: 0
 Total luminous flux: 94,30 lm
 Color temperatur: 6258.35 K
 Color rendering index: 82,34
 Wattage including ballast: 0,93 W

Utilization factors:

k = 0.60 0,086
 k = 0.80 0,145
 k = 1.00 0,206
 k = 1.20 0,277
 k = 1.50 0,341
 k = 2.00 0,448
 k = 2.50 0,527
 k = 3.00 0,588
 k = 4.00 0,676
 k = 5.00 0,734

Electrical parameters

U = 12,000 V
I = 0,078 A
P = 0,935 W
 Power factor = 0,000

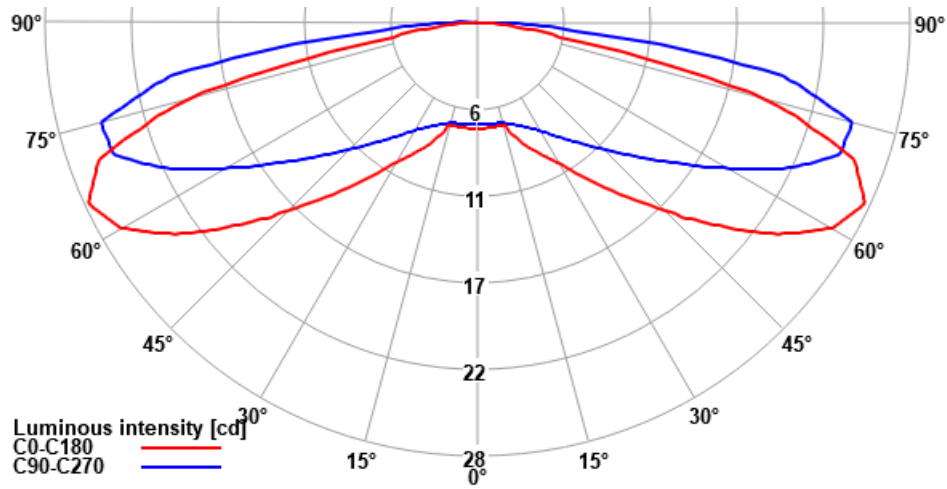
Power apparent = 0,000 VA
 Power Reactive = 0,000 var
 Frequency Voltage = 0,000 Hz
 THD = 0,000 %

Temperature = 23.8 C

Goniometric measurement results

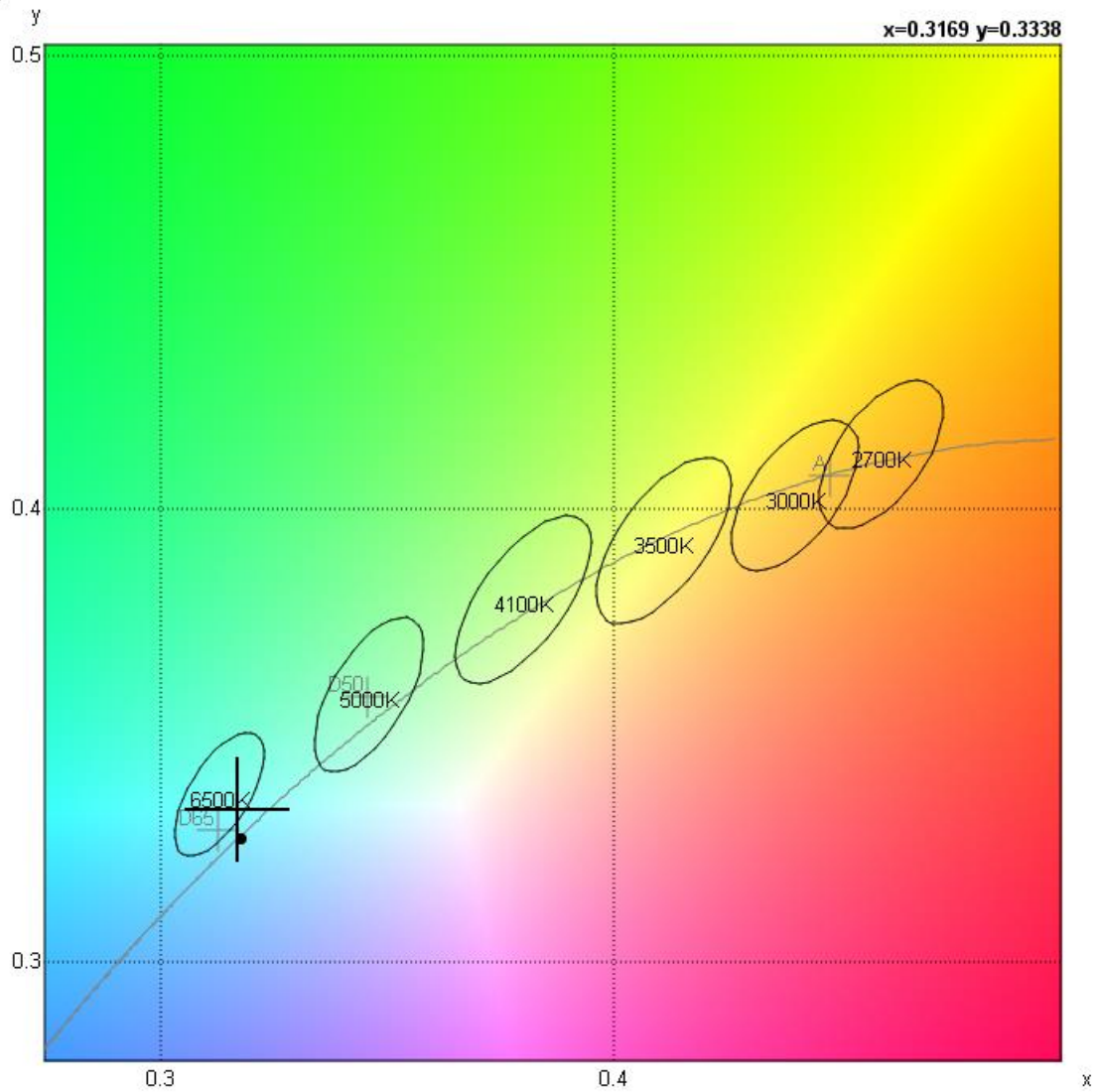
Total flux (utilized luminaire flux)	<i>94,30 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>0,00 %</i>
Maximum luminous intensity	<i>27,69 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>101,40 lm/W</i>

Light intensity distribution diagram

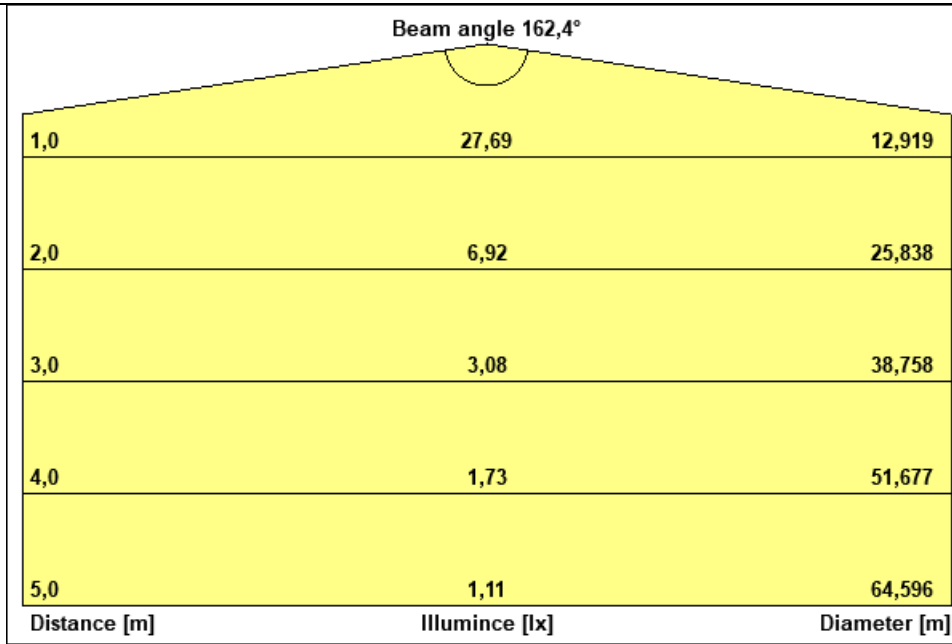


CIE 1931 diagram

x 0,3169
 y 0,3338
 Angular Colour Uniformity 0,0000
 Binning 6500K



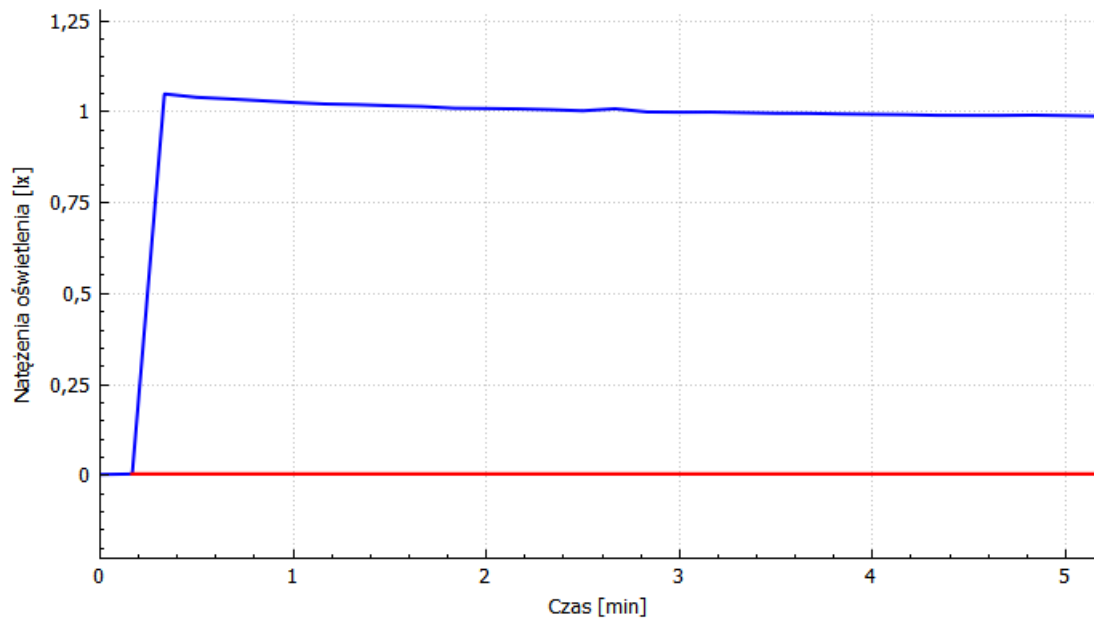
Beam cone



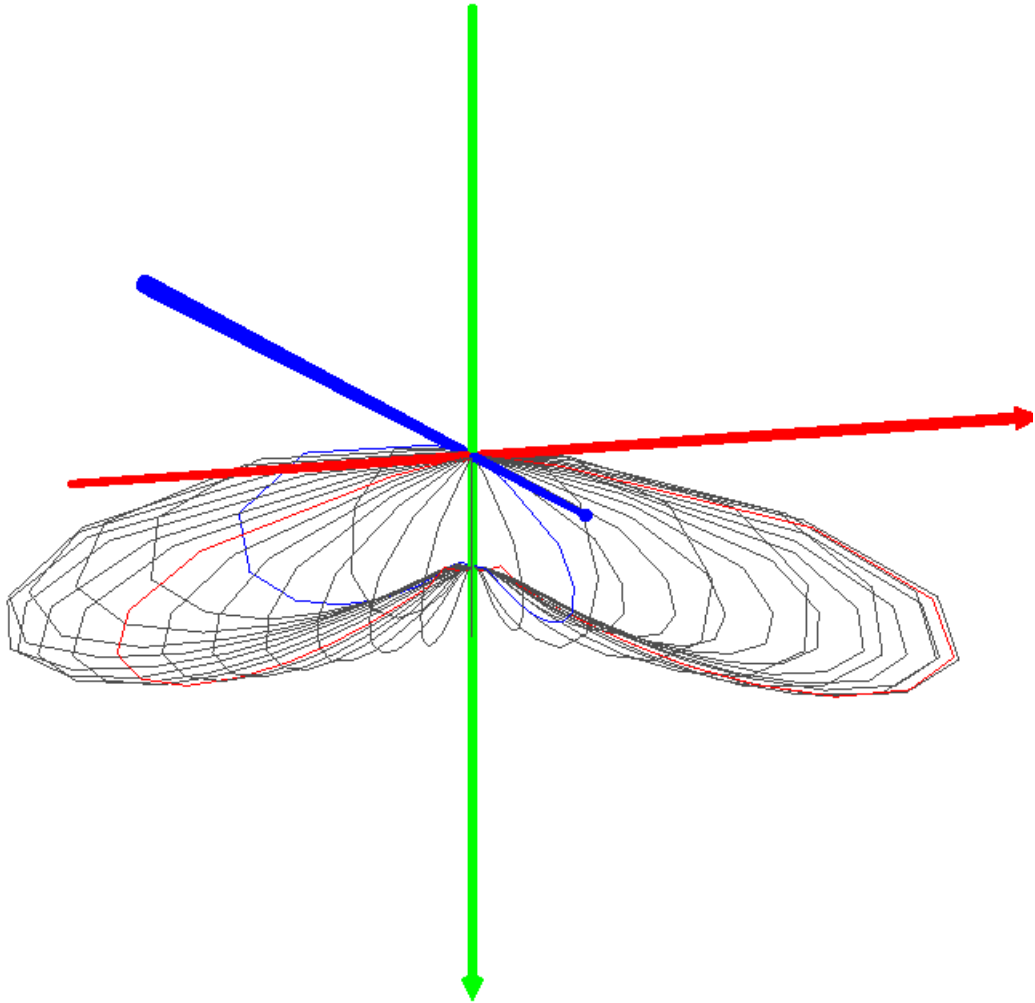
Distance [m]	Max illuminance [lx]	Diameter [m]
1	27,6883	12,919
2	6,9221	25,838
3	3,0765	38,758
4	1,7305	51,677
5	1,1075	64,596

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	162,4°	67,2°	-81,2°	81,2°
0-180°	158,0°	65,0°	-79,0°	79,0°
90-270°	169,1°	75,0°	-84,6°	84,6°




Stabilization



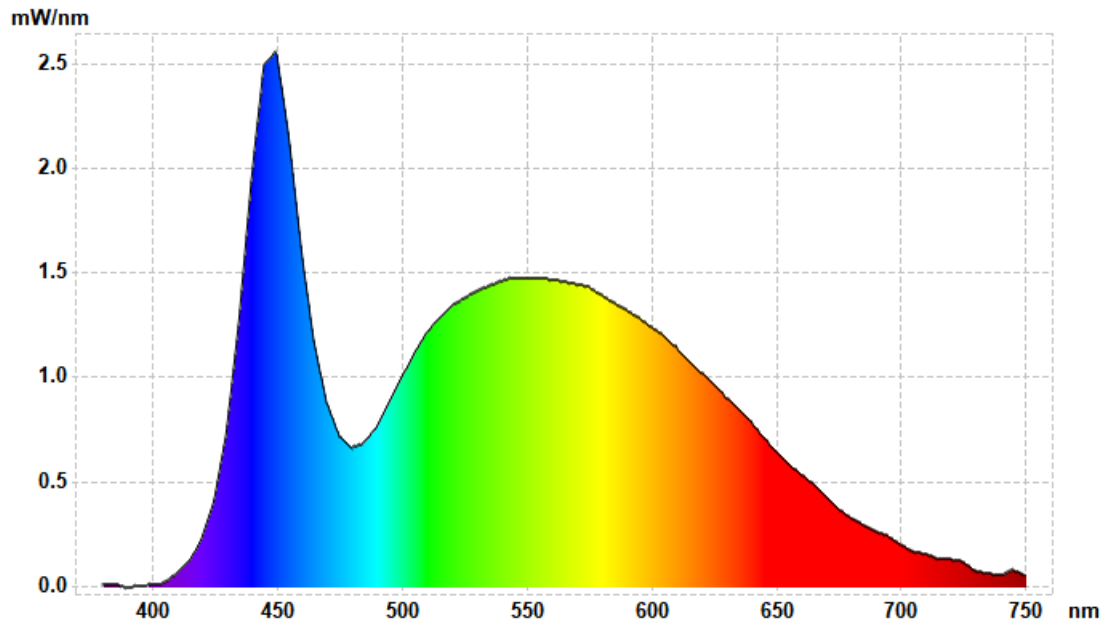
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3169	x	0,3217	CCT	6258
y	0,3338	y	0,3319	Chromaticity Error	0,003
Flux	94,30 lm	u'	0,2030	Color Peak	447,23
		v'	0,4712	Color Peak Value	2,59
		L	100,00	Color Dominant	492,1
u'	0,1989	a	3,73	Luminous Intensity	0,00
v'	0,4715	b	1,84	Purity	
L	100,00	X	98,62	Radiometric	0,3081
a	-0,22	Y	101,72	PAR	-
b	2,62	Z	106,17	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	82,3	Ra	82,3	Mivis	1,4
R1	80,9	R8	73,1	Miuv	6,2
R2	84,9	R9	14,9	Binning	
R3	87,1	R10	63,8	Binning	6500K
R4	83,5	R11	82,7	Brightness	KY
R5	81,9	R12	60,8		
R6	79,4	R13	81,5		
R7	87,8	R14	92,9		