

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line*[®]
Model name: *OPTO 4mod OSRAM 170st*
Item No: *243431*
Serial No.: *02412*
Made by: *Radosław Kośnik*

Eulumdat Fields

Dimensions of luminaire

Company: *LED line*[®]
Report number: *B269*
LuminaireName: *OPTO 4mod OSRAM 170st*
LuminaireNumber: *243431*
FileName: *B269_243431_02412_G_20190219_R_O*
Date: *2019-02-19*

Dimensions of luminaire

Length: *46 mm*
Width: *46 mm*
Height: *9 mm*

Dimensions of luminous area

Length: *35 mm*
Width: *35 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: 272,06 lm
 Color temperatur: 6276 K
 Color rendering index: 82,66
 Wattage including ballast: 2,75 W

Utilization factors:

k = 0.60 0,084
 k = 0.80 0,135
 k = 1.00 0,188
 k = 1.20 0,252
 k = 1.50 0,311
 k = 2.00 0,410
 k = 2.50 0,484
 k = 3.00 0,544
 k = 4.00 0,630
 k = 5.00 0,690

Electrical parameters

U = 11,999 V
I = 0,230 A
P = 2,754 W
 Power factor = 0,000

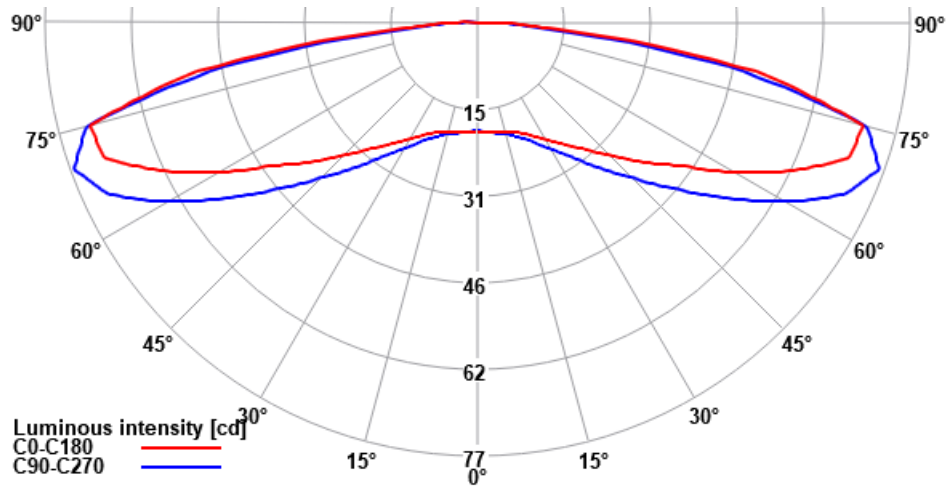
Power apparent = 0,000 VA
 Power Reactive = 0,000 var
 Frequency Voltage = 0,000 Hz
 THD = 0,000 %

Temperature = 23 C

Goniometric measurement results

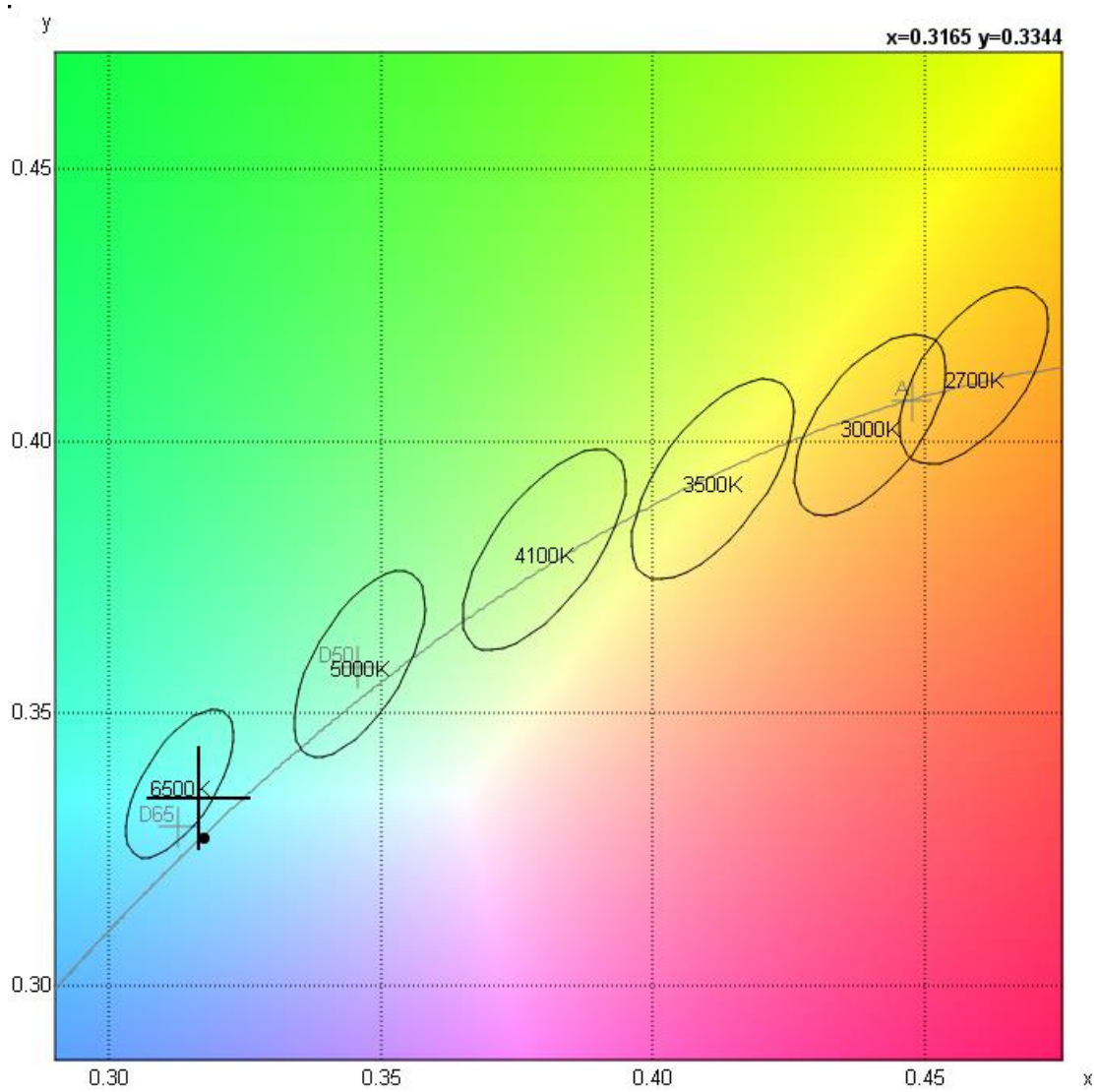
Total flux (utilized luminaire flux)	272,06 lm
Flux in lower hemisphere	100,00 %
Flux in upper hemisphere	0,00 %
Maximum luminous intensity	76,24 cd
Light output ratio (LOR)	100,00 %
Luminous efficacy	98,93 lm/W

Light intensity distribution diagram



CIE 1931 diagram

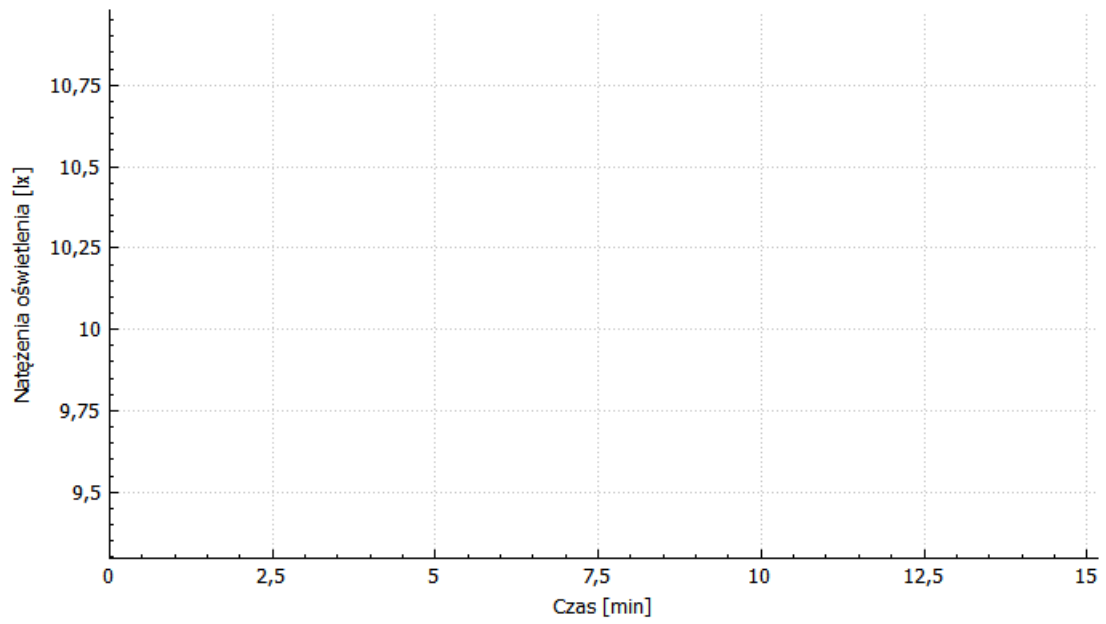
x 0,3165
y 0,3344
Angular Colour Uniformity 0,0053



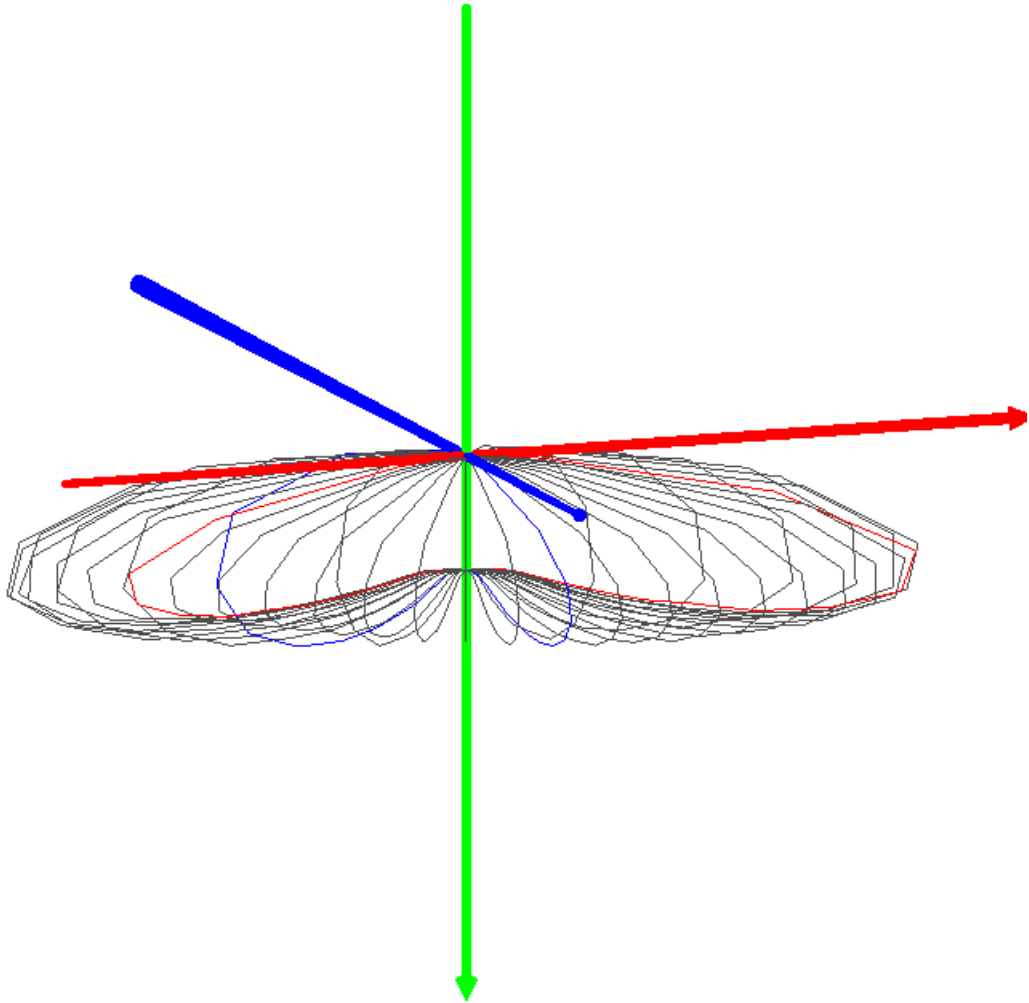
Beam cone

Beam angle 0,0°		
Distance [m]	Illuminance [lx]	Diameter [m]
1,0	76,24	-
2,0	19,06	-
3,0	8,47	-
4,0	4,77	-
5,0	3,05	-

Stabilization



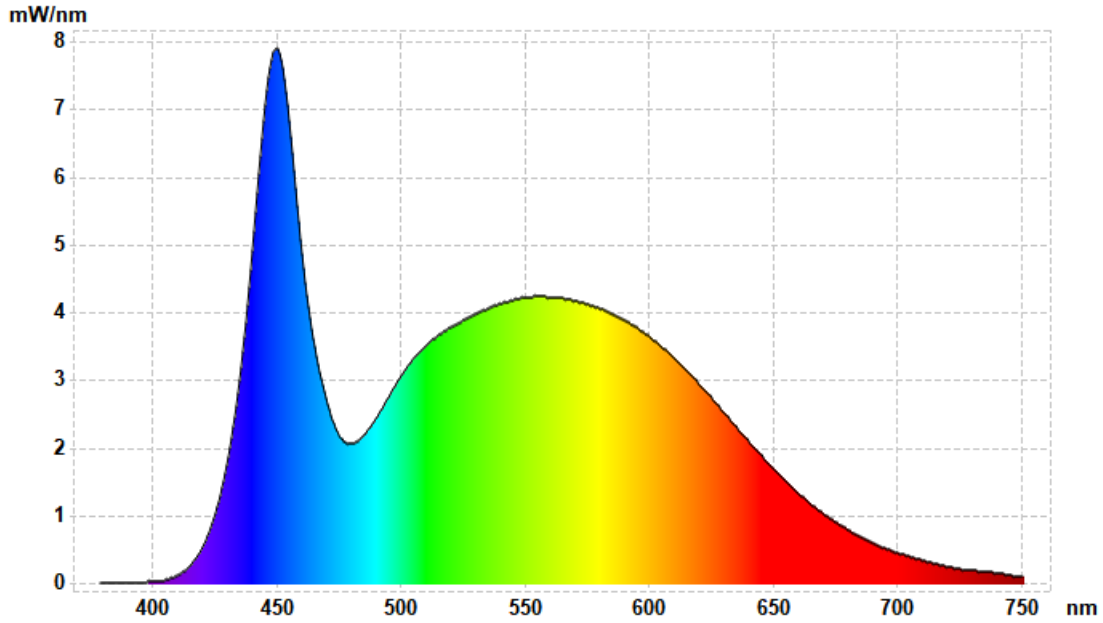
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3165	x	0,3215	CCT	6276
y	0,3344	y	0,3335	Chromaticity Error	0,002
Flux	272,06 lm	u'	0,2022	Color Peak	450,92
		v'	0,4720	Color Peak Value	7,91
		L	100,00	Color Dominant	492,5
u'	0,1984	a	2,77	Luminous Intensity	0,00
v'	0,4717	b	2,41	Purity	
L	100,00	X	283,51	Radiometric	0,8754
a	-0,71	Y	294,12	PAR	-
b	2,77	Z	304,32	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	82,7	Ra	82,7	Mivis	1,6
R1	80,6	R8	70,4	Miuv	6,0
R2	86,5	R9	7,8	Binning	
R3	90,0	R10	67,5	Binning	6500K
R4	82,9	R11	81,9	Brightness	
R5	81,6	R12	60,3		
R6	81,1	R13	82,0		
R7	88,1	R14	94,7		