

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line*[®]
Model name: *PANEL LED 36W 4000K*
Item No: *248863*
Serial No.: *35909*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LEDline*[®]
Report number: *B514*
LuminaireName: *Panel LED kwadratowy 36W 4000K*
LuminaireNumber: *248863*
FileName: *B514_248863_35909_G_20190508_R_O*
Date: *2019-05-08*

Dimensions of luminaire

Length: *595 mm*
Width: *595 mm*
Height: *10 mm*

Dimensions of luminous area

Length: *545 mm*
Width: *545 mm*
C0-plane *0 mm*
C90-plane *0 mm*
C180-plane *0 mm*
C270-plane *0 mm*

Lamps:

Number of lamps: 1
 Type of lamps: 0
 Total luminous flux: 2902,40 lm
 Color temperatur: 4052.93 K
 Color rendering index: 79,79
 Wattage including ballast: 36,02 W

Utilization factors:

k = 0.60 0,274
 k = 0.80 0,362
 k = 1.00 0,438
 k = 1.20 0,513
 k = 1.50 0,572
 k = 2.00 0,661
 k = 2.50 0,712
 k = 3.00 0,751
 k = 4.00 0,804
 k = 5.00 0,837

Electrical parameters

U = 230,072 V
I = 0,170 A
P = 36,019 W
 Power factor = 0,921

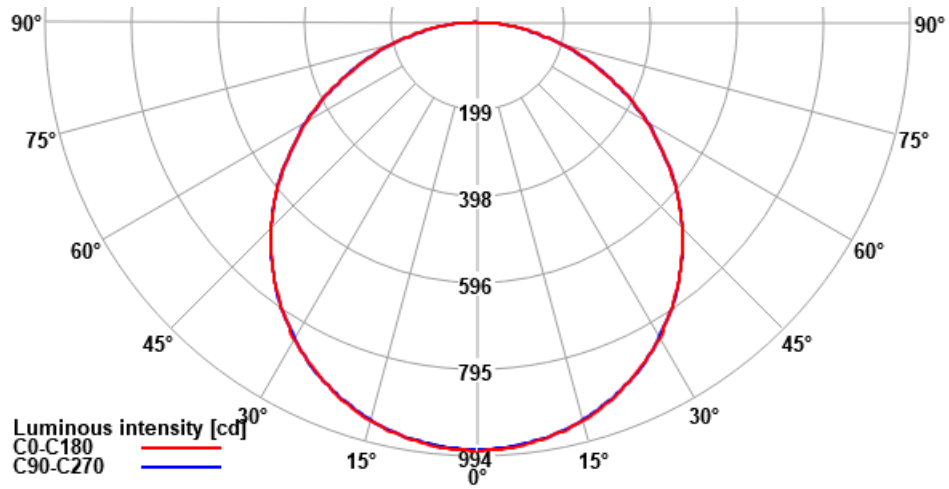
Power apparent = 0,000 VA
 Power Reactive = 0,000 var
 Frequency Voltage = 0,000 Hz
 THD = 0,000 %

Temperature = 22.2 C

Goniometric measurement results

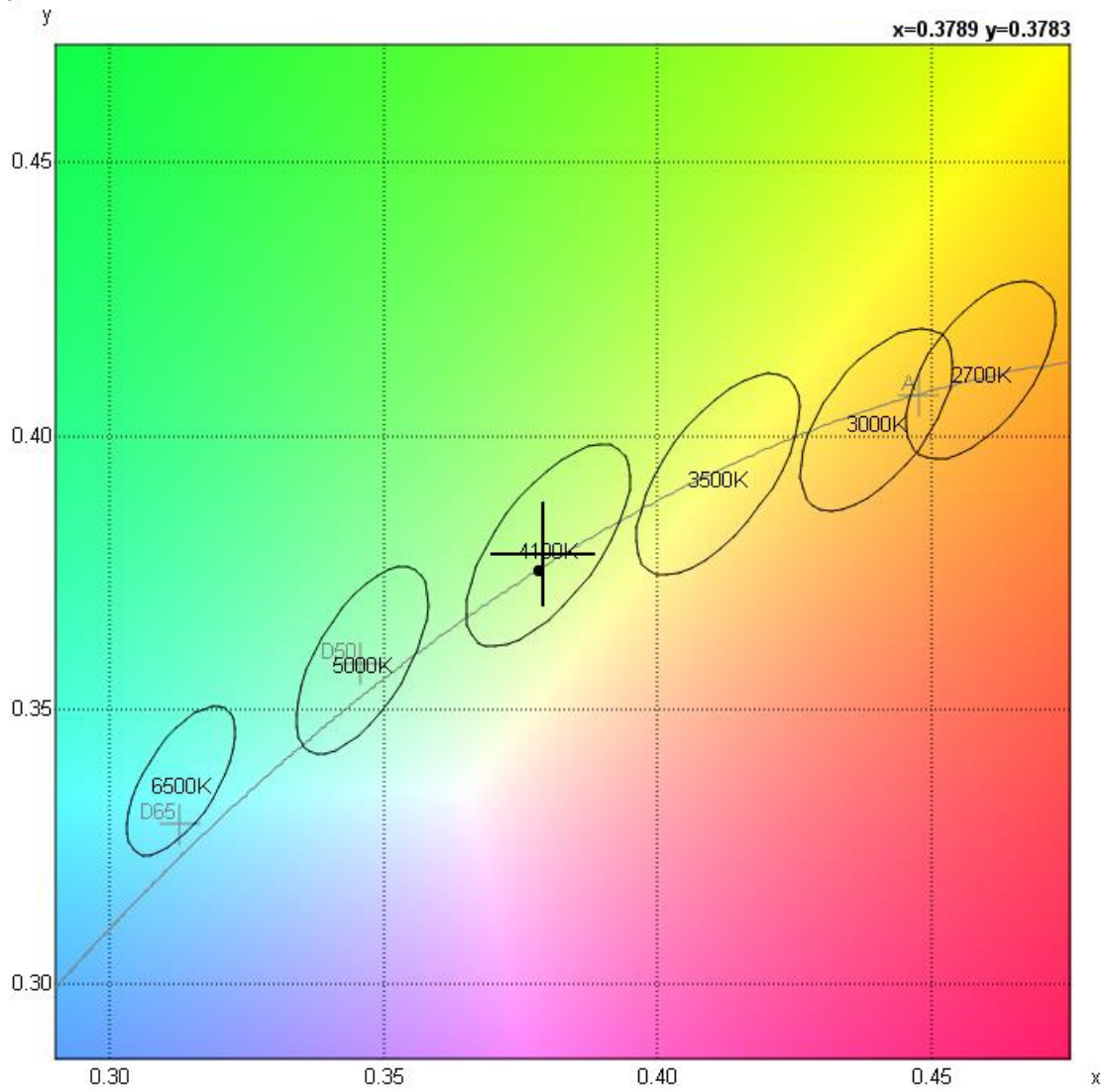
Total flux (utilized luminaire flux)	<i>2902,40 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>0,00 %</i>
Maximum luminous intensity	<i>984,84 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>80,58 lm/W</i>

Light intensity distribution diagram

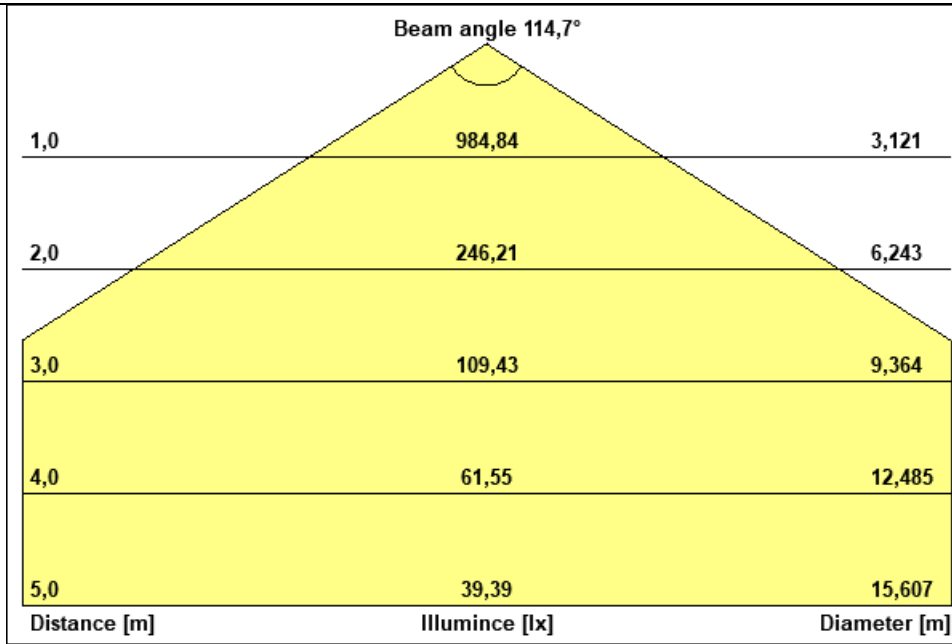


CIE 1931 diagram

x 0,3789
 y 0,3783
 Angular Colour Uniformity 0,0000
 Binning 4100K



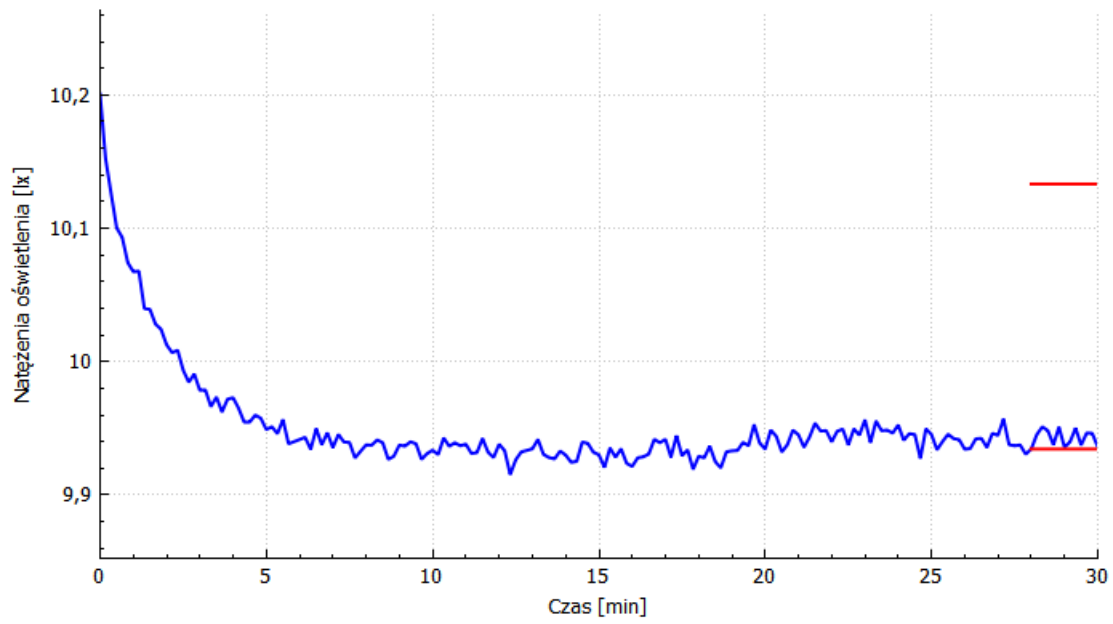
Beam cone



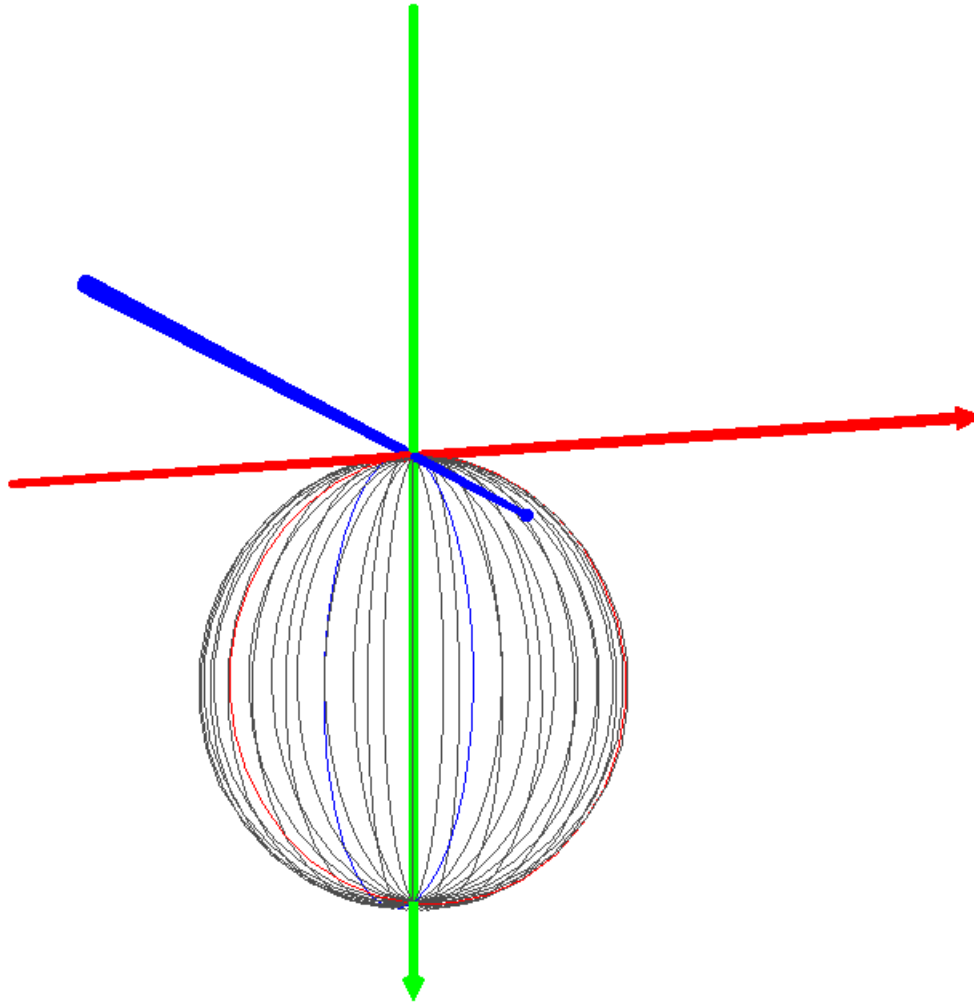
Distance [m]	Max illuminance [lx]	Diameter [m]
1	984,8423	3,121
2	246,2106	6,243
3	109,4269	9,364
4	61,5526	12,485
5	39,3937	15,607

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	114,7°	5,0°	-57,3°	57,3°
0-180°	114,8°	5,0°	-57,4°	57,4°
90-270°	114,8°	5,0°	-57,4°	57,4°

Stabilization



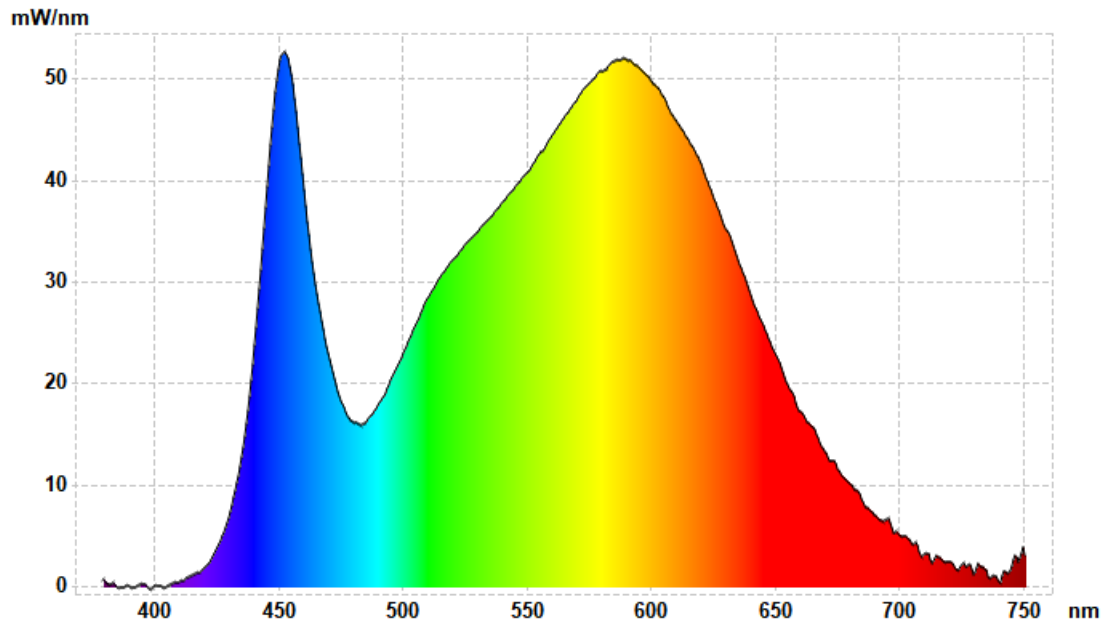
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3789	x	0,3856	CCT	4053
y	0,3783	y	0,3750	Chromaticity Error	0,003
Flux	2902,40 lm	u'	0,2293	Color Peak	452,76
		v'	0,5016	Color Peak Value	52,77
		L	100,00	Color Dominant	578,2
u'	0,2235	a	13,73	Luminous Intensity	0,00
v'	0,5021	b	31,80	Purity	
L	100,00	X	3169,67	Radiometric	8,5620
a	8,81	Y	3082,23	PAR	-
b	32,33	Z	1967,22	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	79,8	Ra	79,8	Mivis	2,1
R1	77,1	R8	58,0	Miuv	4,1
R2	87,9	R9	-8,2	Binning	
R3	94,9	R10	71,3	Binning	4100K
R4	76,7	R11	74,4	Brightness	
R5	77,3	R12	57,3		
R6	82,8	R13	79,9		
R7	83,5	R14	97,5		