

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *Panel LED line kwadrat Easy Fix 18W 1450lm 4000K*
Item No: *249464*
Serial No.: *00702*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B578*
LuminaireName: *Panel LED line kwadrat Easy Fix 18W 1450lm 4000K*
LuminaireNumber: *249464*
FileName: *B578_249464_00702_G_20190709_R_O*
Date: *2019-07-09*

Dimensions of luminaire

Length: *217 mm*
Width: *217 mm*
Height: *14 mm*

Dimensions of luminous area

Length: *175 mm*
Width: *175 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: 1458,04 lm
Color temperatur: 3952.03 K
Color rendering index: 80,47
Wattage including ballast: 18,71 W

Utilization factors:

k = 0.60 0,277
k = 0.80 0,366
k = 1.00 0,443
k = 1.20 0,519
k = 1.50 0,578
k = 2.00 0,667
k = 2.50 0,718
k = 3.00 0,757
k = 4.00 0,809
k = 5.00 0,842

Electrical parameters

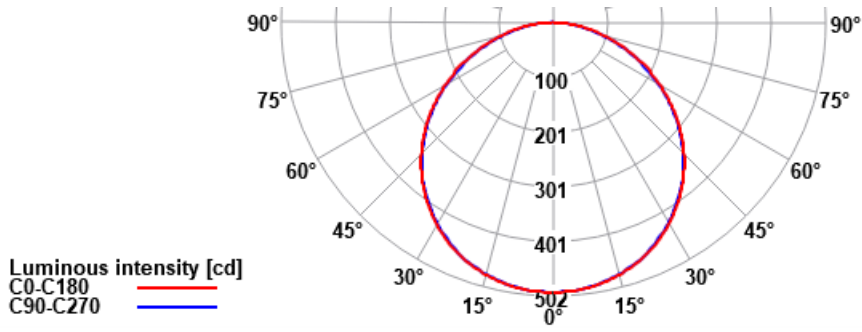
Power source: IT7321 300VA
U = 230,027 V
I = 0,150 A
P = 18,709 W
Power factor = 0,541

Temperature = 25.3 C

Goniometric measurement results

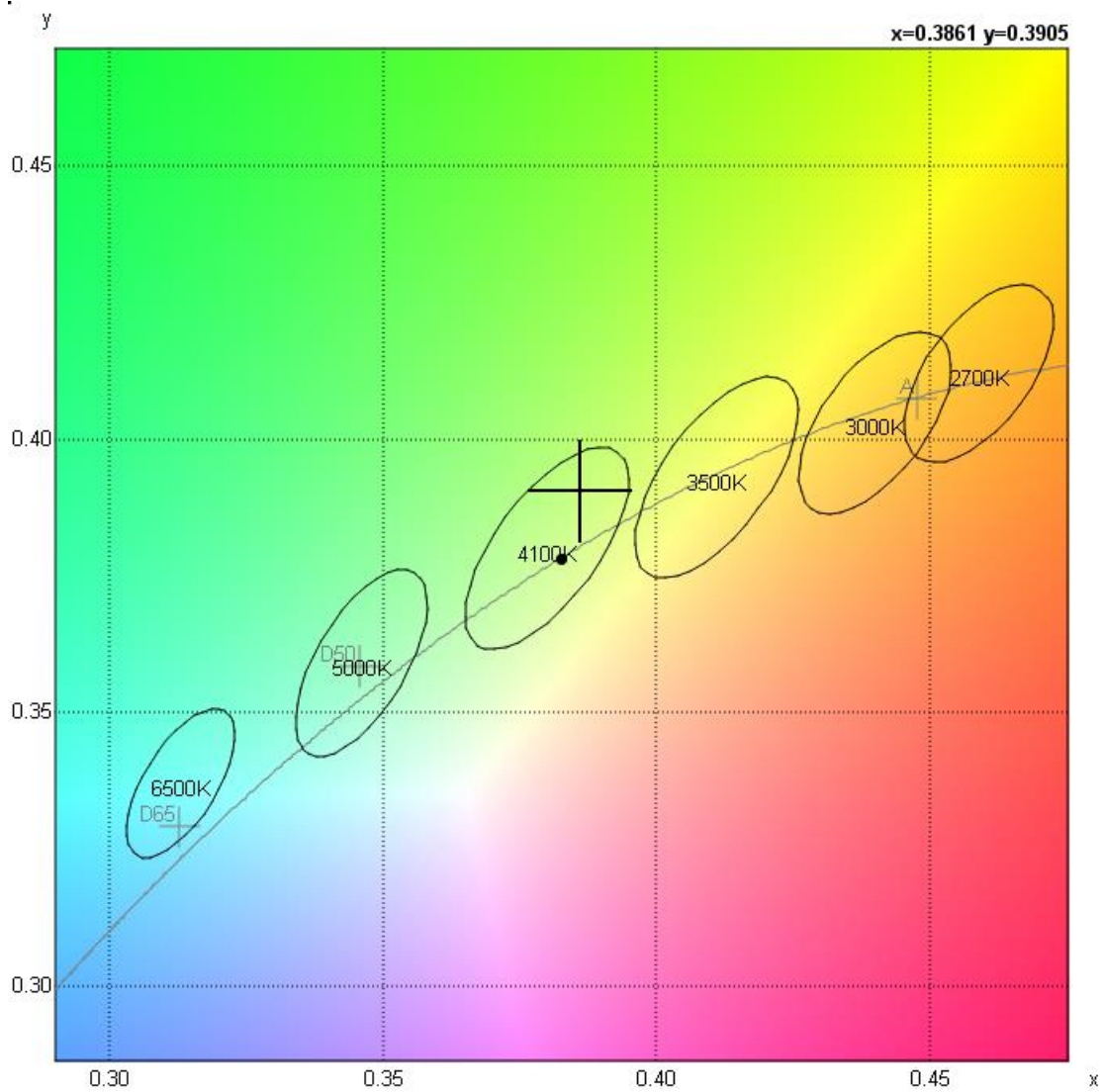
Total flux (utilized luminaire flux)	<i>1458,04 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>-0,00 %</i>
Maximum luminous intensity	<i>496,71 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>77,93 lm/W</i>

Light intensity distribution diagram

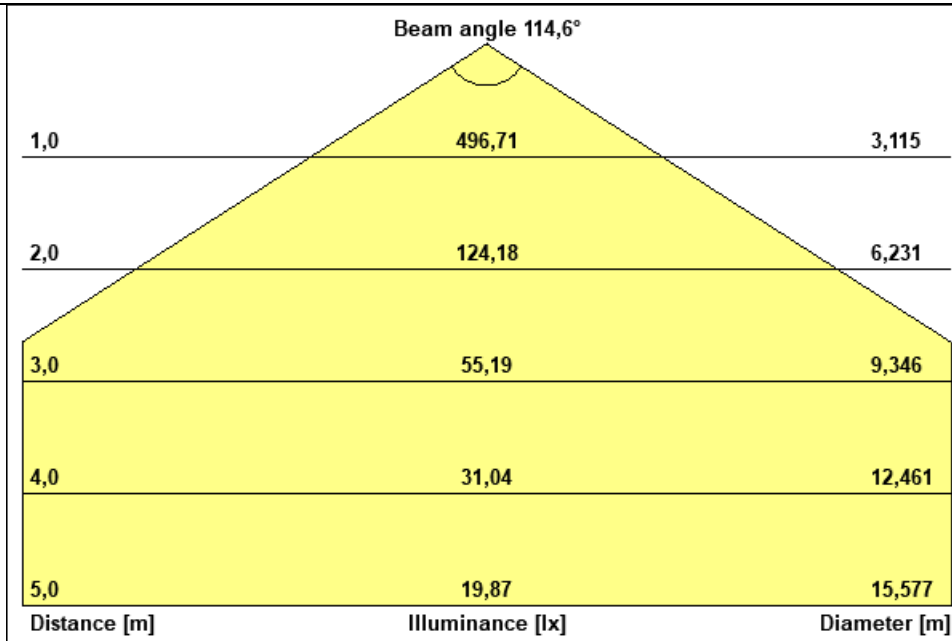


CIE 1931 diagram

x 0,3861
 y 0,3905
 Angular Colour Uniformity 0,0008
 Binning 4100K



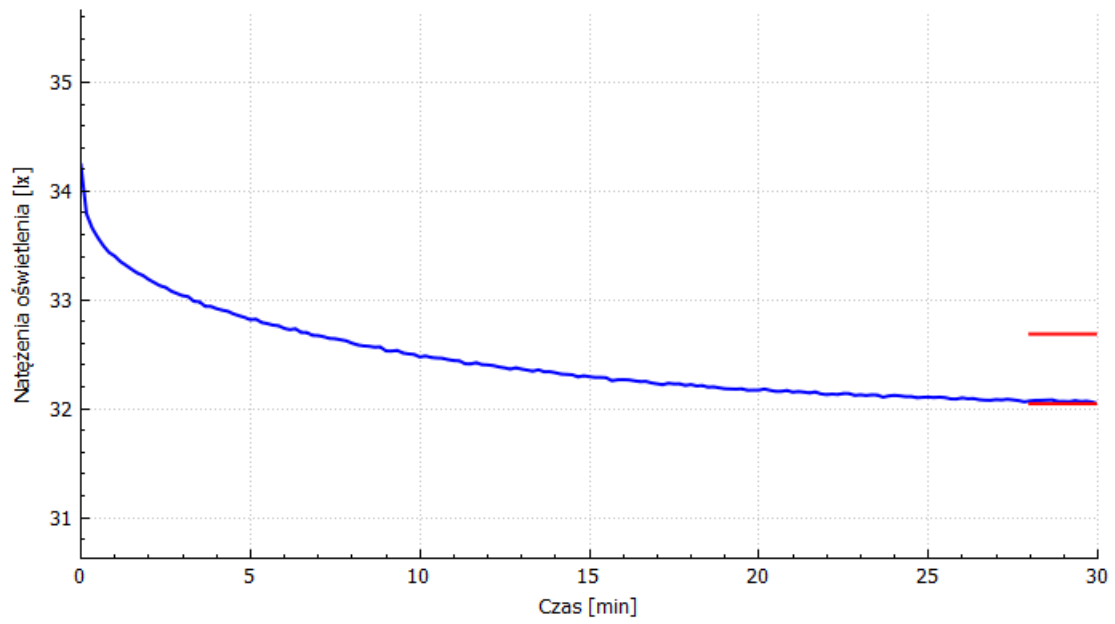
Beam cone



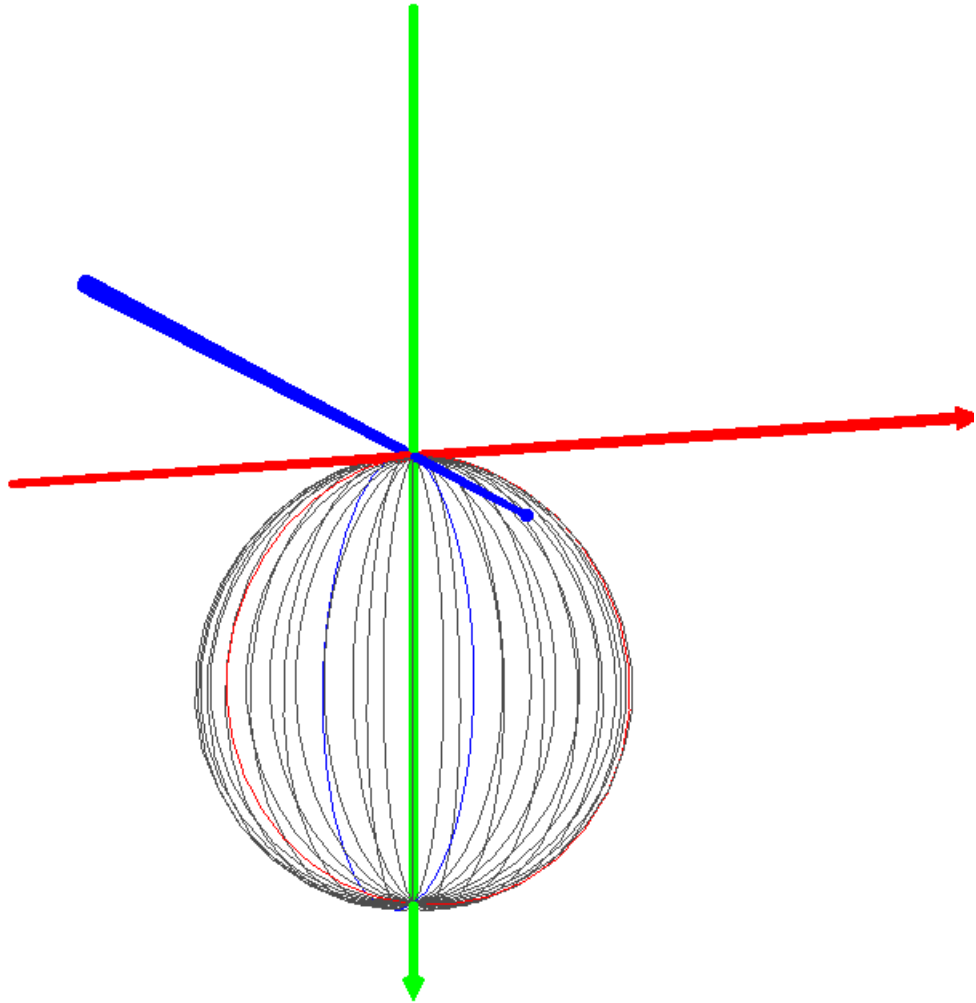
Distance [m]	Max illumince [lx]	Diameter [m]
1	496,7080	3,115
2	124,1770	6,231
3	55,1898	9,346
4	31,0443	12,461
5	19,8683	15,577

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	114,6°	5,0°	-57,3°	57,3°
0-180°	114,8°	5,0°	-57,4°	57,4°
90-270°	114,3°	5,0°	-57,1°	57,1°

Stabilization



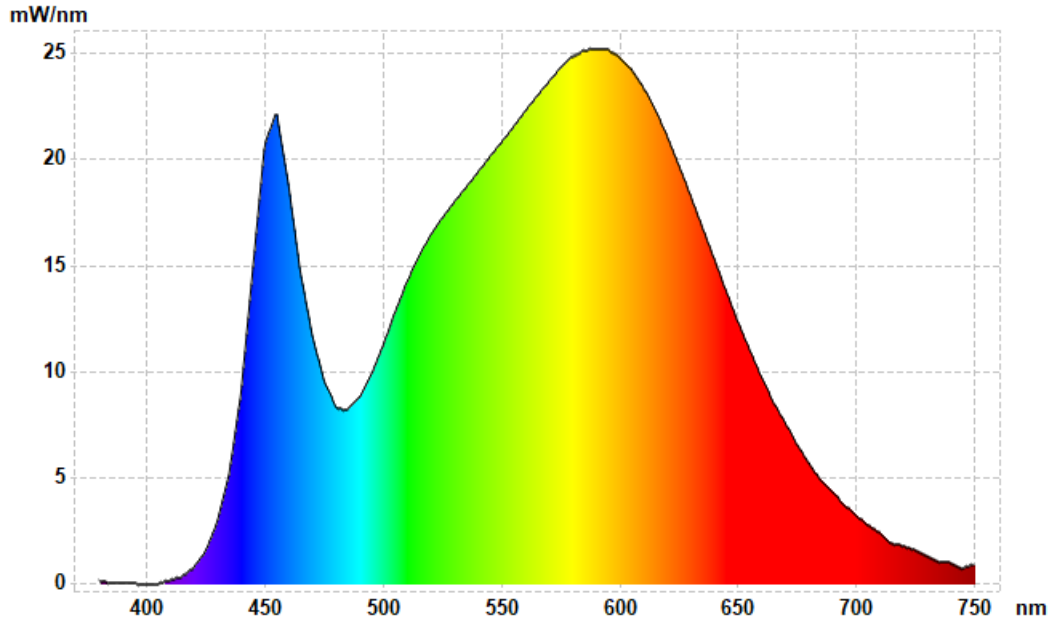
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3861	x	0,3935	CCT	3952
y	0,3905	y	0,3872	Chromaticity Error	0,005
Flux	1458,04 lm	u'	0,2295	Color Peak	592,28
		v'	0,5080	Color Peak Value	25,22
		L	100,00	Color Dominant	577,1
u'	0,2234	a	11,72	Luminous Intensity	0,00
v'	0,5083	b	38,38	Purity	0,331
L	100,00	X	1570,78	Radiometric	4,2860
a	6,62	Y	1545,53	PAR	-
b	38,60	Z	875,23	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	80,5	Ra	80,5	Mivis	2,2
R1	77,6	R8	60,1	Miuv	4,0
R2	87,7	R9	-3,3	Binning	
R3	95,4	R10	70,8	Binning	4100K
R4	77,5	R11	75,0	Brightness	
R5	77,3	R12	56,1		
R6	82,9	R13	80,1		
R7	85,2	R14	97,6		