

GL GONIOSPECTROMETER
Lighting Research & Measurement Center**Report Wizard Sample Description Lines**

Client name: *LED line®*Model name: *Panel LED line kwadrat Easy Fix 18W 1300lm 2700K*Item No: *249457*Serial No.: *00702*Made by: *Radosław Kośnik***Eulumdat Fields**

Company: *LED line®*Report number: *B577*LuminaireName: *Panel LED line kwadrat Easy Fix 18W 1300lm 2700K*LuminaireNumber: *249457*FileName: *B577_249457_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:	1358,59 lm
Color temperatur:	2936.96 K
Color rendering index:	80,18
Wattage including ballast:	18,81 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	0,577
k = 2.00	0,667
k = 2.50	0,717
k = 3.00	0,756
k = 4.00	0,808
k = 5.00	0,841

Electrical parameters

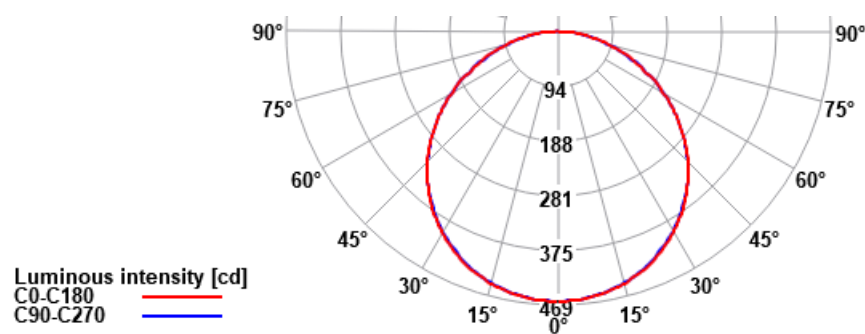
Power source:	IT7321 300VA
U	= 230,009 V
I	= 0,151 A
P	= 18,815 W
Power factor	= 0,541

Temperature = 24.5 C

Goniometric measurement results

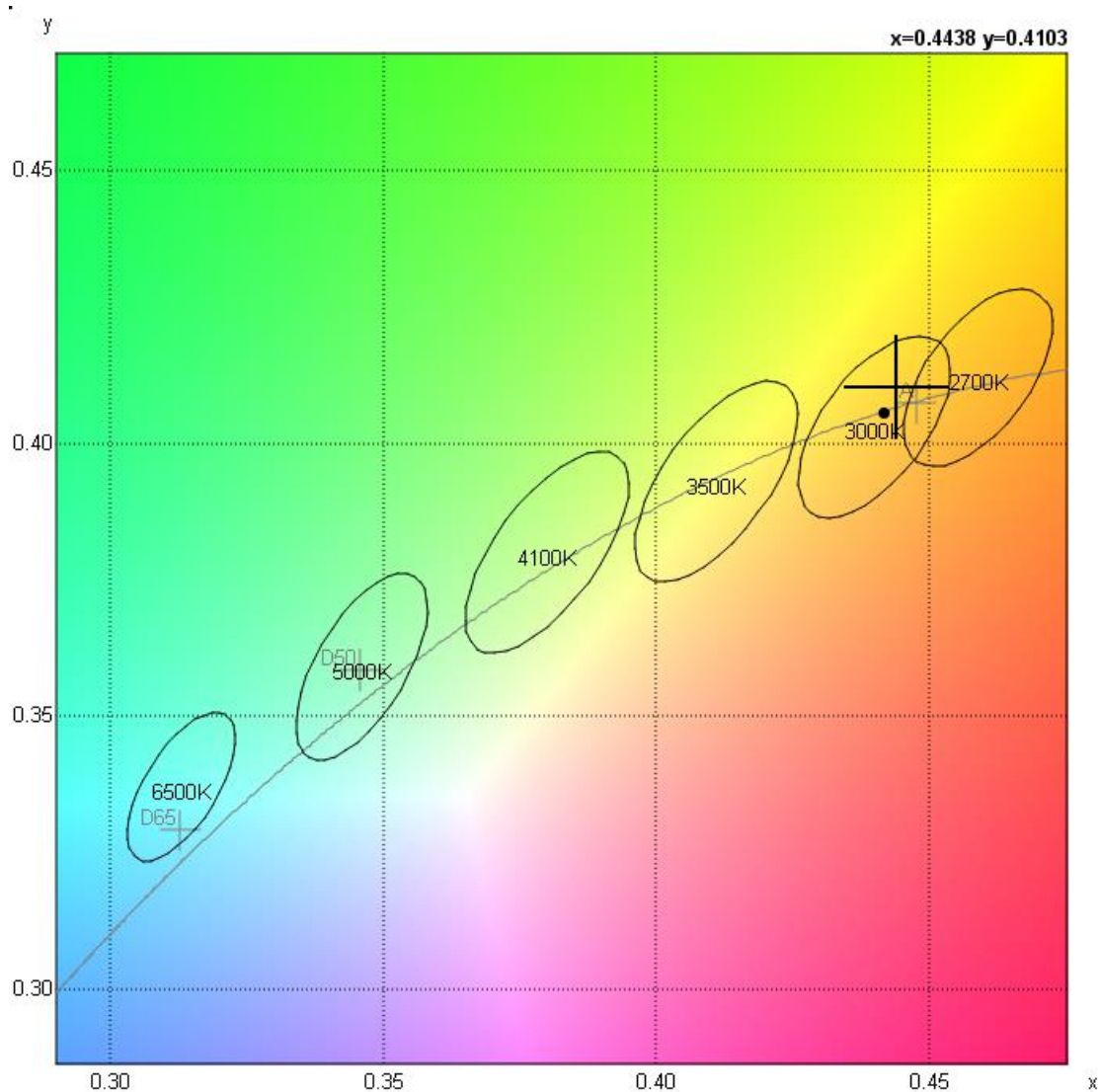
Total flux (utilized luminarie flux)	1358,59 lm
Flux in lower hemisphere	100,00 %
Flux in upper hemisphere	0,00 %
Maximum luminous intensity	464,72 cd
Light output ratio (LOR)	100,00 %
Luminous efficacy	72,23 lm/W

Light intensity distribution diagram

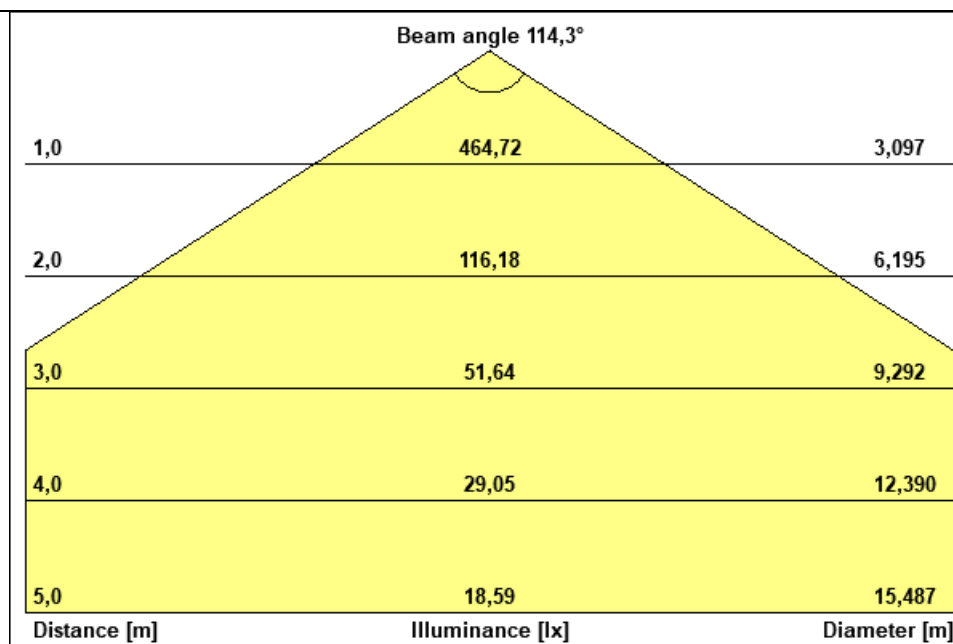


CIE 1931 diagram

x 0,4438
y 0,4103
Angular Colour Uniformity 0,0005
Binning 3000K



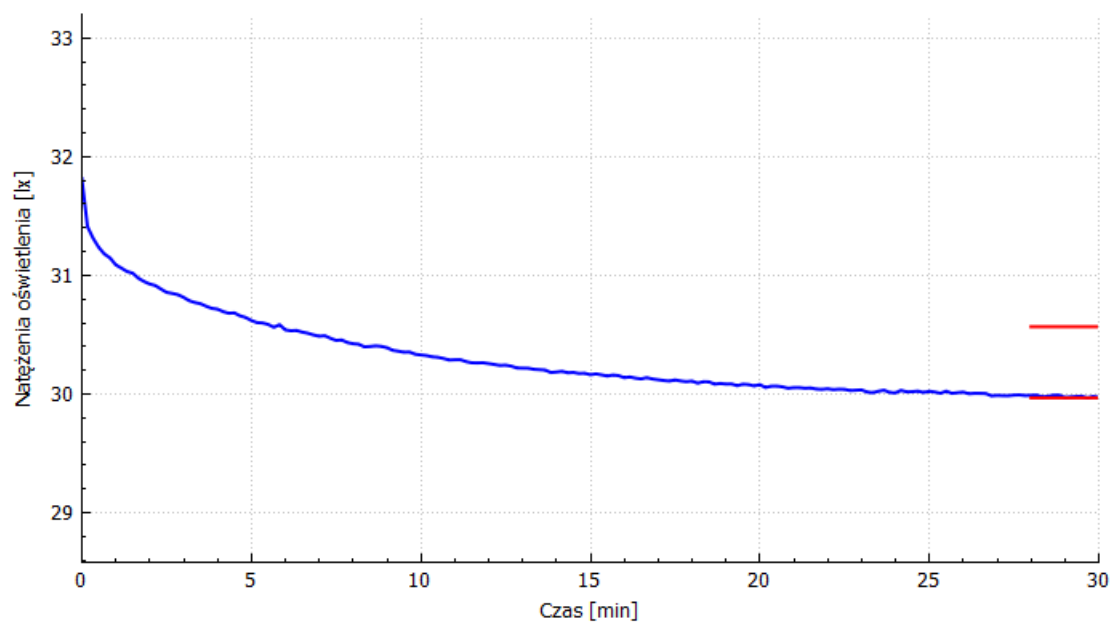
Beam cone



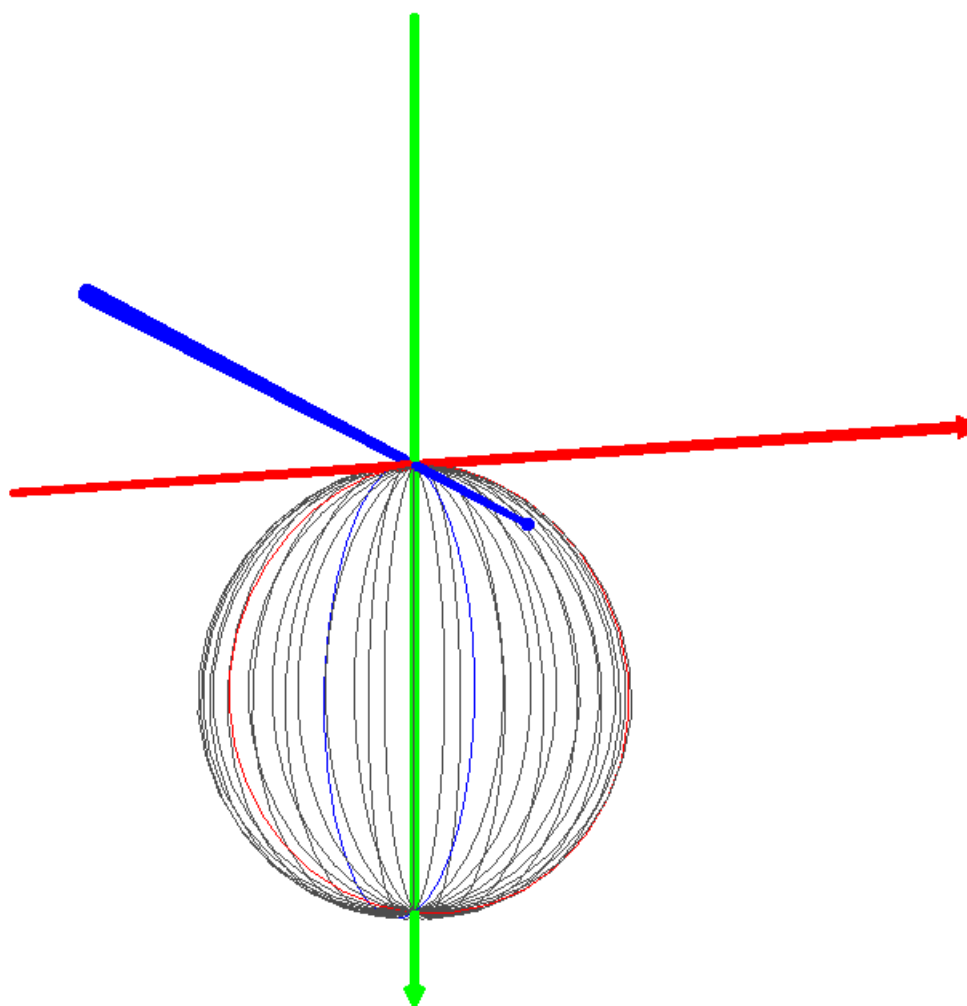
Distance [m]	Max illumince [lx]	Diameter [m]
1	464,7200	3,097
2	116,1800	6,195
3	51,6356	9,292
4	29,0450	12,390
5	18,5888	15,487

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	114,3°	5,0°	-57,1°	57,1°
0-180°	114,3°	5,0°	-57,1°	57,1°
90-270°	114,4°	5,0°	-57,2°	57,2°

Stabilization



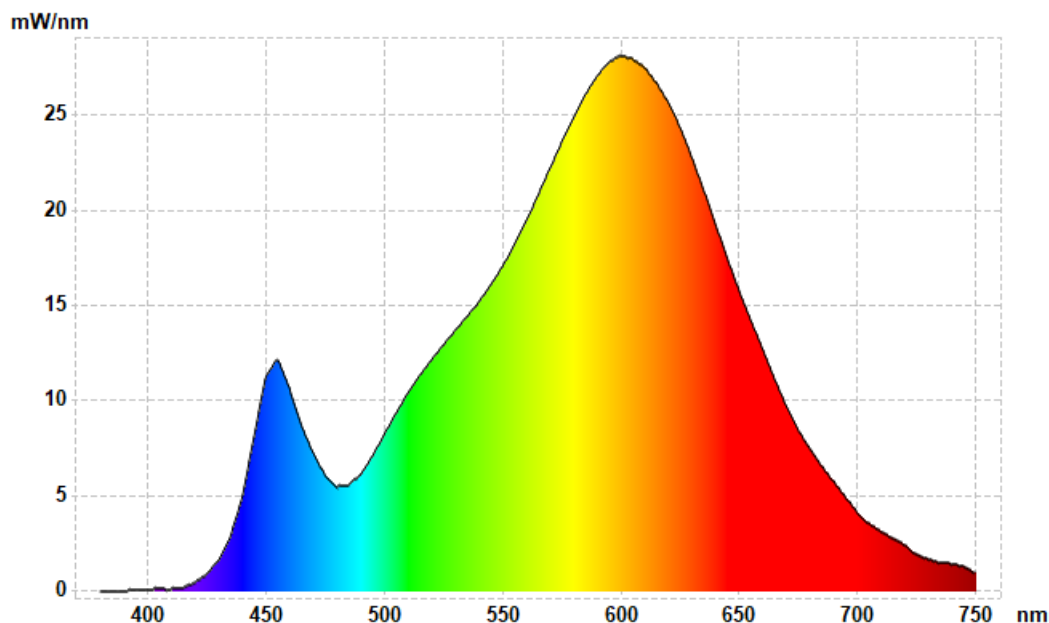
3D Chart



Legend

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

Spectral distribution



Results

CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,4438	x	0,4513	CCT	2937
y	0,4103	y	0,4059	Chromaticity Error	0,003
Flux	1358,59 lm	u'	0,2591	Color Peak	600,85
		v'	0,5243	Color Peak Value	28,09
		L	100,00	Color Dominant	582,6
u'	0,2523	a	27,26	Luminous Intensity	0,00
v'	0,5248	b	62,12	Purity	0,564
L	100,00	X	1584,23	Radiometric	4,0381
a	22,02	Y	1424,94	PAR	-
b	62,30	Z	501,02	PPFD	-

Rendering Indices

Ra	80,2	Ra	80,2	Metamerism Indices	
R1	78,0	R8	54,7	Mivis	2,7
R2	89,7	R9	-2,2	Miuv	3,9
R3	96,1	R10	76,3	Binning	
R4	76,7	R11	74,6	Binning	3000K
R5	77,8	R12	66,4	Brightness	
R6	87,1	R13	80,6		
R7	81,4	R14	98,5		