

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line*[®]
Model name: *Panel LED line okrągły Easy Fix 18W 1570lm 2700K*
Item No: 248818
Serial No.: 48312
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line*[®]
Report number: *B575*
LuminaireName: *Panel LED line okrągły Easy Fix 18W 1570lm 2700K*
LuminaireNumber: *248818*
FileName: *B575_248818_48312_G_20190708_R_P*
Date: *2019-07-08*

Dimensions of luminaire

Length: 215 mm
Width: 0 mm
Height: 13 mm

Dimensions of luminous area

Length: 175 mm
Width: 0 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:	1551,10 lm
Color temperatur:	2940.48 K
Color rendering index:	79,67
Wattage including ballast:	18,74 W

Utilization factors:

k = 0.60	0,277
k = 0.80	0,365
k = 1.00	0,442
k = 1.20	0,517
k = 1.50	0,576
k = 2.00	0,665
k = 2.50	0,716
k = 3.00	0,755
k = 4.00	0,807
k = 5.00	0,840

Electrical parameters

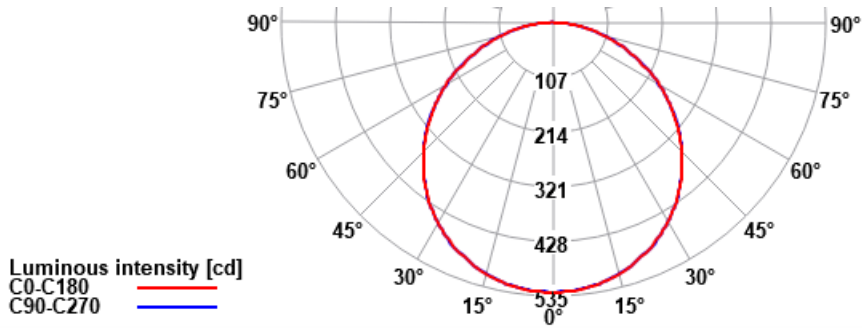
Power source:	IT7321 300VA
U	= 230,057 V
I	= 0,150 A
P	= 18,744 W
Power factor	= 0,541

Temperature = 24.8 C

Goniometric measurement results

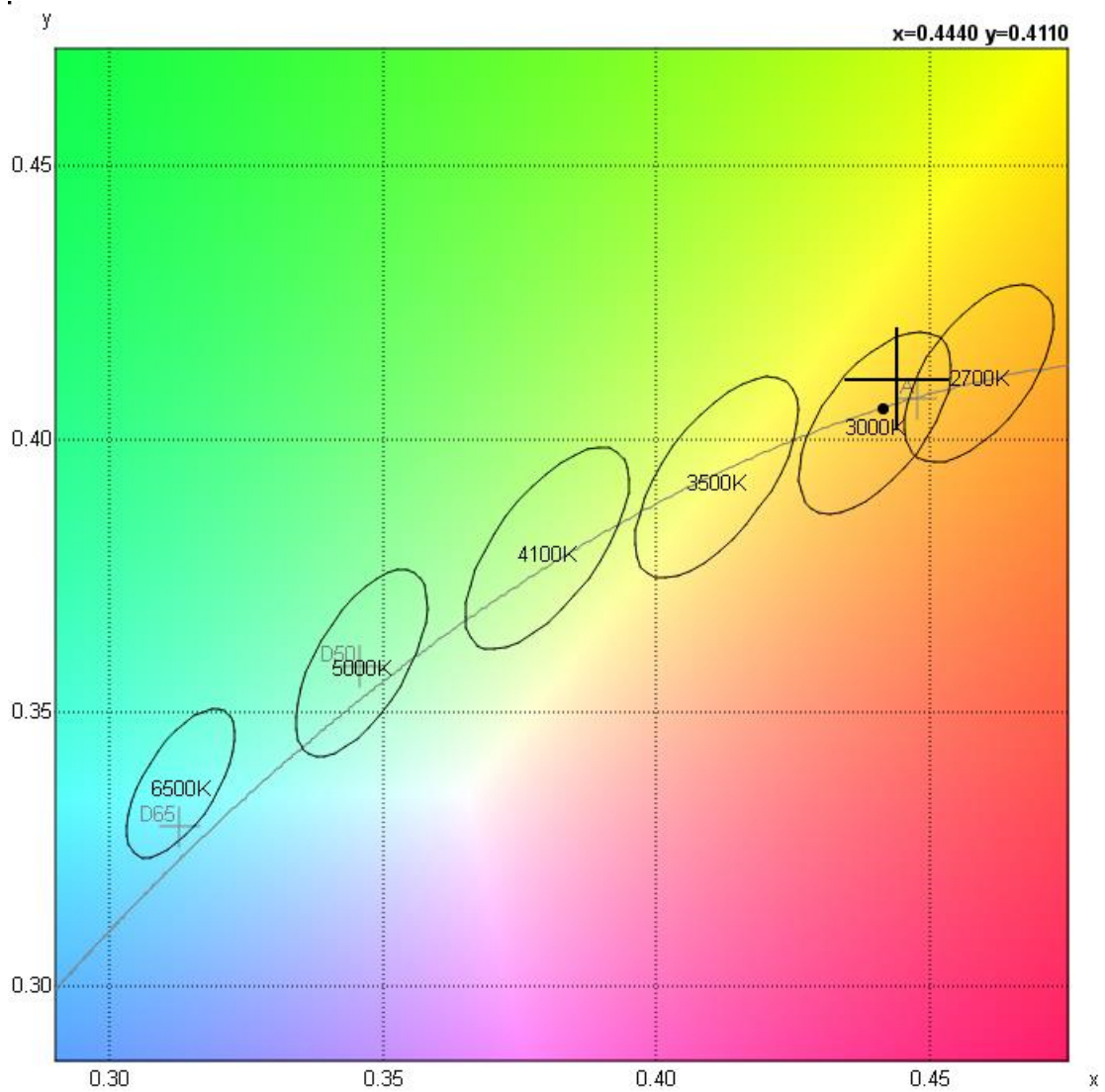
Total flux (utilized luminaire flux)	<i>1551,10 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>0,00 %</i>
Maximum luminous intensity	<i>529,95 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>82,77 lm/W</i>

Light intensity distribution diagram

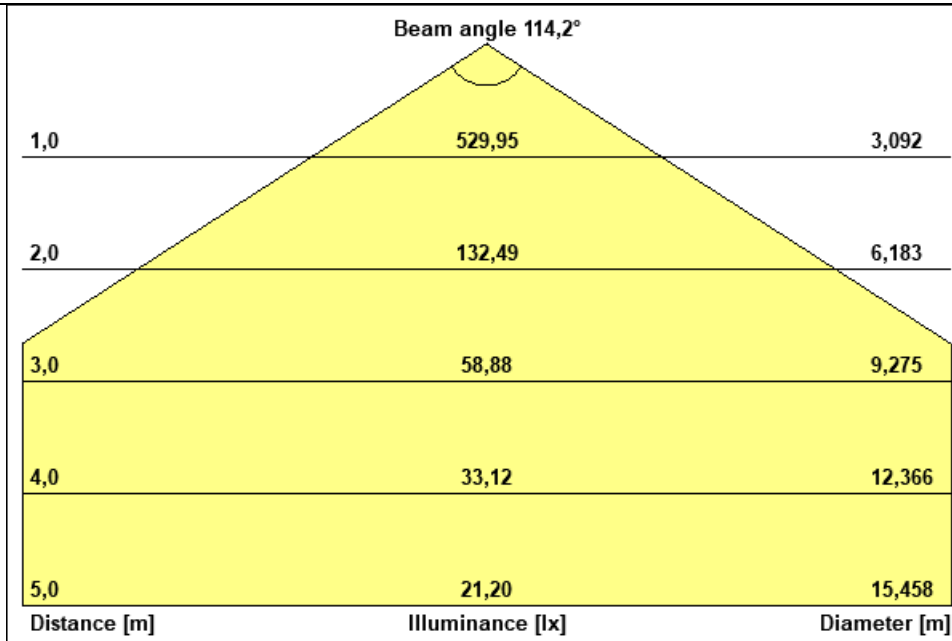


CIE 1931 diagram

x 0,4440
 y 0,4110
 Angular Colour Uniformity 0,0004
 Binning 3000K



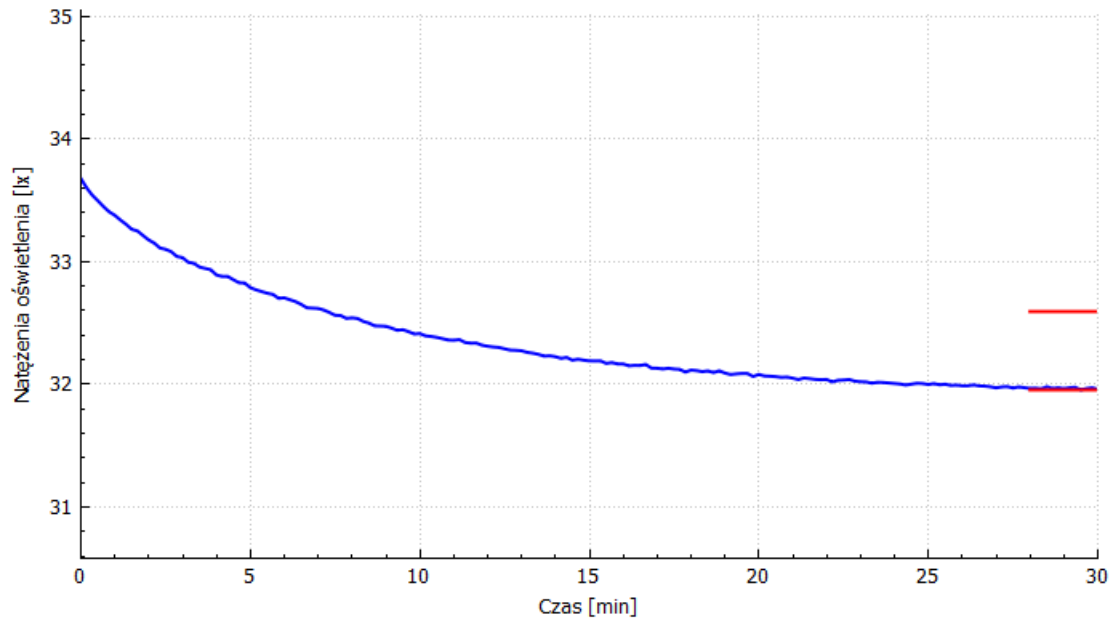
Beam cone



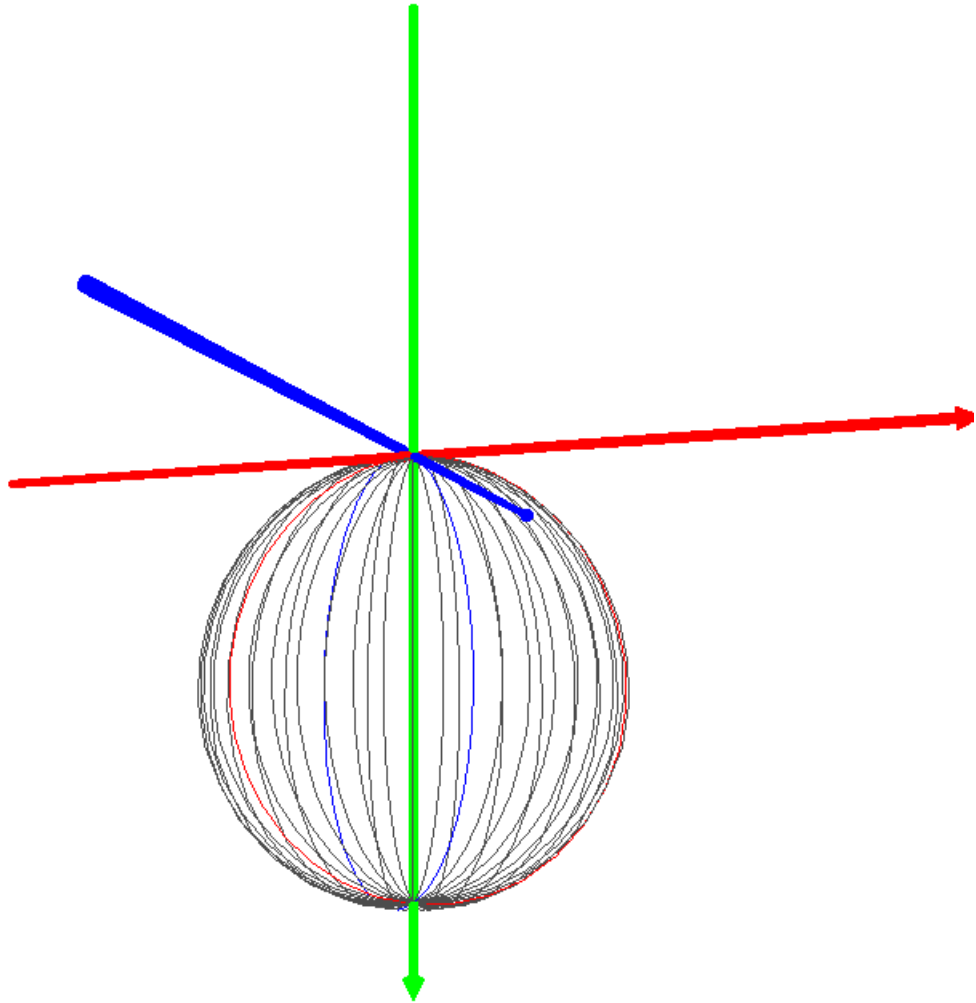
Distance [m]	Max illumince [lx]	Diameter [m]
1	529,9457	3,092
2	132,4864	6,183
3	58,8829	9,275
4	33,1216	12,366
5	21,1978	15,458

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

Stabilization



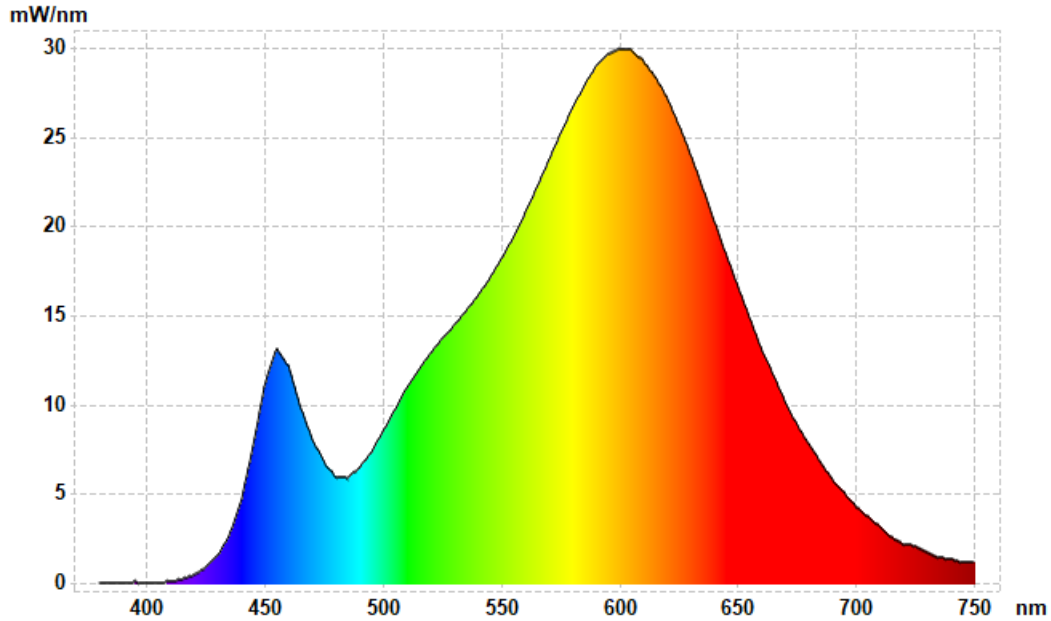
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,4440	x	0,4516	CCT	2940
y	0,4110	y	0,4068	Chromaticity Error	0,003
Flux	1551,10 lm	u'	0,2589	Color Peak	600,85
		v'	0,5246	Color Peak Value	29,98
		L	100,00	Color Dominant	582,5
u'	0,2521	a	27,03	Luminous Intensity	0,00
v'	0,5251	b	62,58	Purity	0,566
L	100,00	X	1687,69	Radiometric	4,2873
a	21,77	Y	1519,99	PAR	-
b	62,64	Z	529,05	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	79,7	Ra	79,7	Mivis	2,8
R1	77,4	R8	53,7	Miuv	3,8
R2	89,6	R9	-4,4	Binning	
R3	95,8	R10	76,1	Binning	3000K
R4	75,8	R11	73,5	Brightness	
R5	77,2	R12	65,3		
R6	86,9	R13	80,2		
R7	80,9	R14	98,3		