

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *LED line® Panel 2in1 30W 4000K 3600lm 120x30*
Item No: *475459*
Serial No.: *35908*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B3271*
LuminaireName: *LED line® Panel 2in1 30W 4000K 3600lm 120x30*
LuminaireNumber: *457459*
FileName: *B3271_475459_35908_G_20230113_R_O*
Date: *2023-01-13*

Dimensions of luminaire

Length: *1195 mm*
Width: *4295 mm*
Height: *16 mm*

Dimensions of luminous area

Length: *1130 mm*
Width: *240 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: 3550.65 lm
 Color temperatur: 4002 K
 Color rendering index: 81.90
 Wattage including ballast: 30.16 W

Utilization factors:

k = 0.60 0.276
 k = 0.80 0.363
 k = 1.00 0.439
 k = 1.20 0.515
 k = 1.50 0.573
 k = 2.00 0.662
 k = 2.50 0.713
 k = 3.00 0.752
 k = 4.00 0.805
 k = 5.00 0.838

Electrical parameters

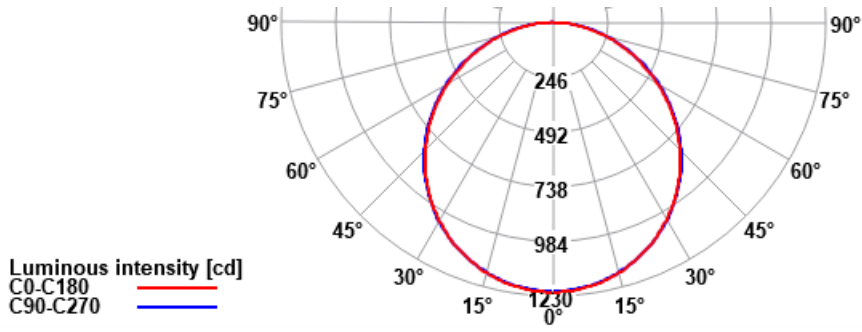
Power source: IT7321 300VA
 U = 230.059 V
 I = 0.136 A
 P = 30.160 W
 Power factor = 0.964

Temperature = 22.8 C

Goniometric measurement results

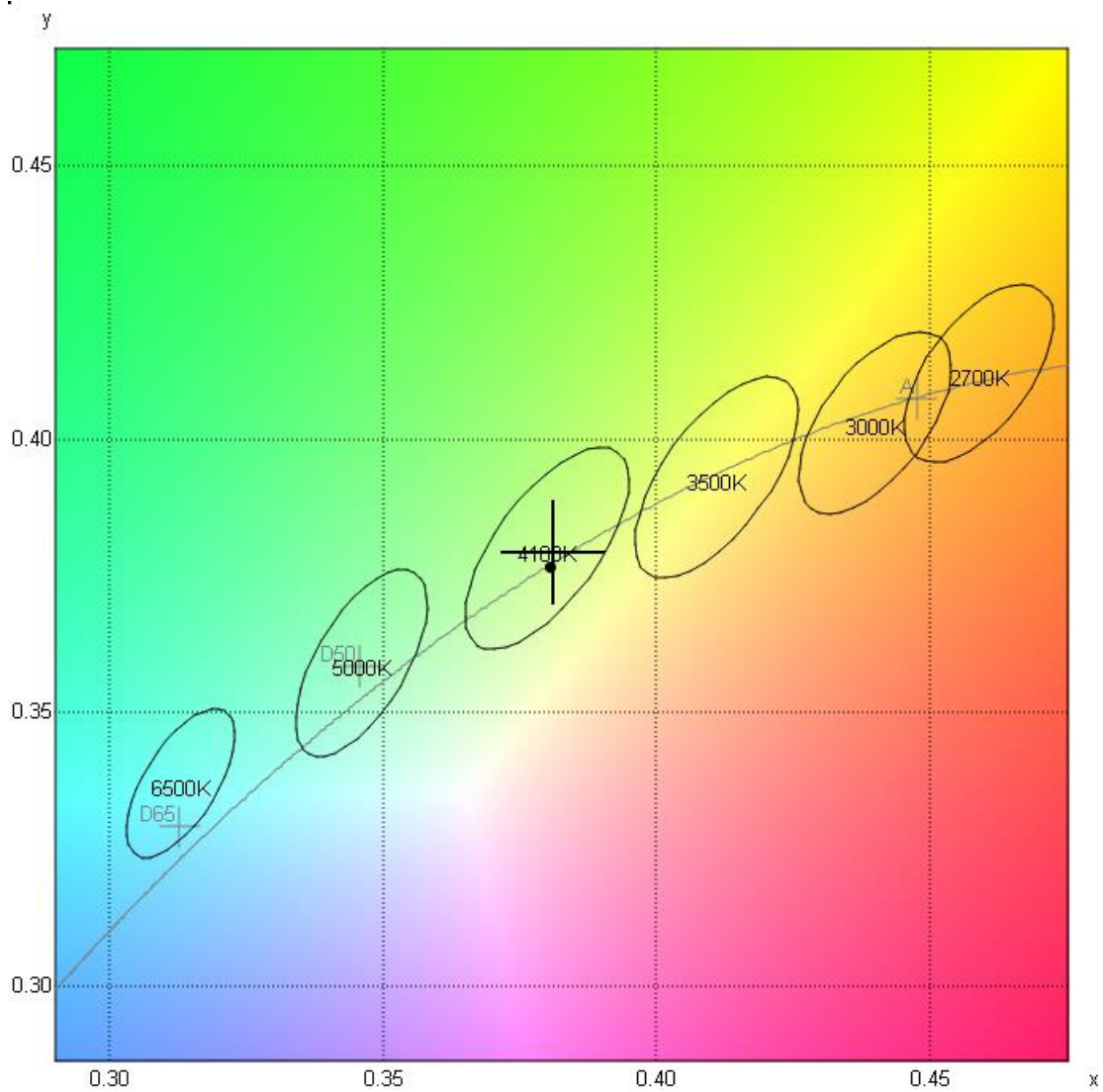
Total flux (utilized luminaire flux)	<i>3550.65 lm</i>
Flux in lower hemisphere	<i>100.00 %</i>
Flux in upper hemisphere	<i>0.00 %</i>
Maximum luminous intensity	<i>1218.18 cd</i>
Light output ratio (LOR)	<i>100.00 %</i>
Luminous efficacy	<i>117.73 lm/W</i>

Light intensity distribution diagram

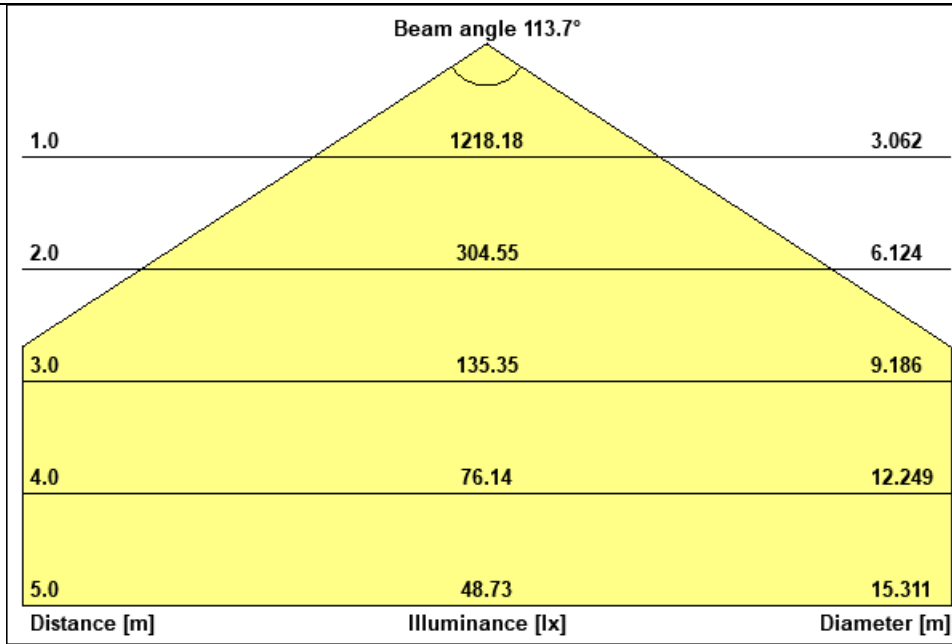


CIE 1931 diagram

x 0.3810
 y 0.3792
 Angular Colour Uniformity 0.0005
 Binning 4100K



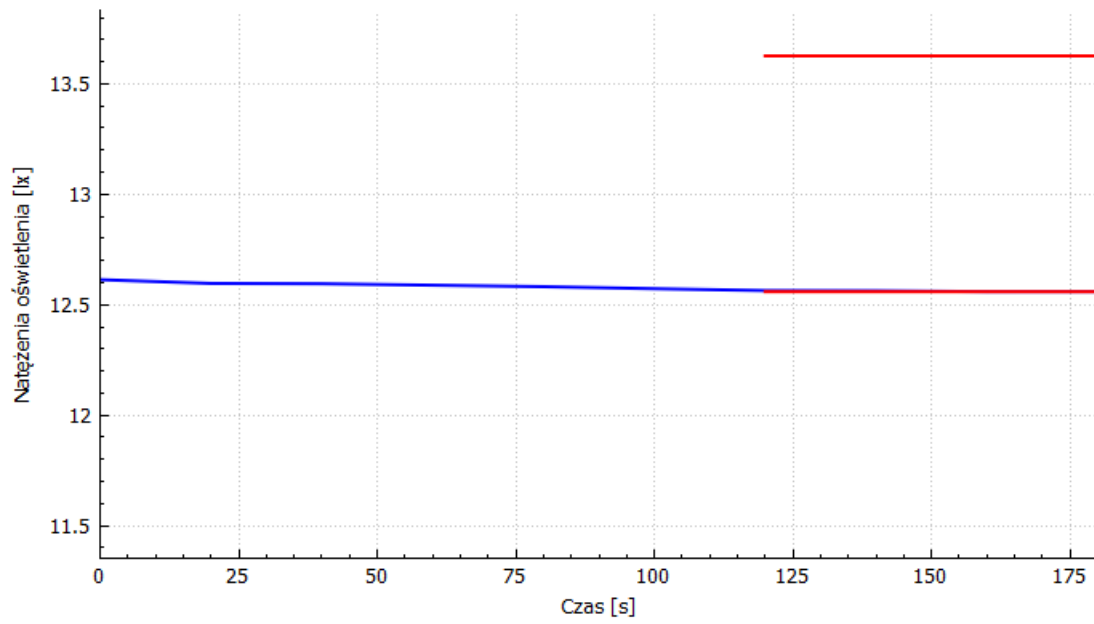
Beam cone



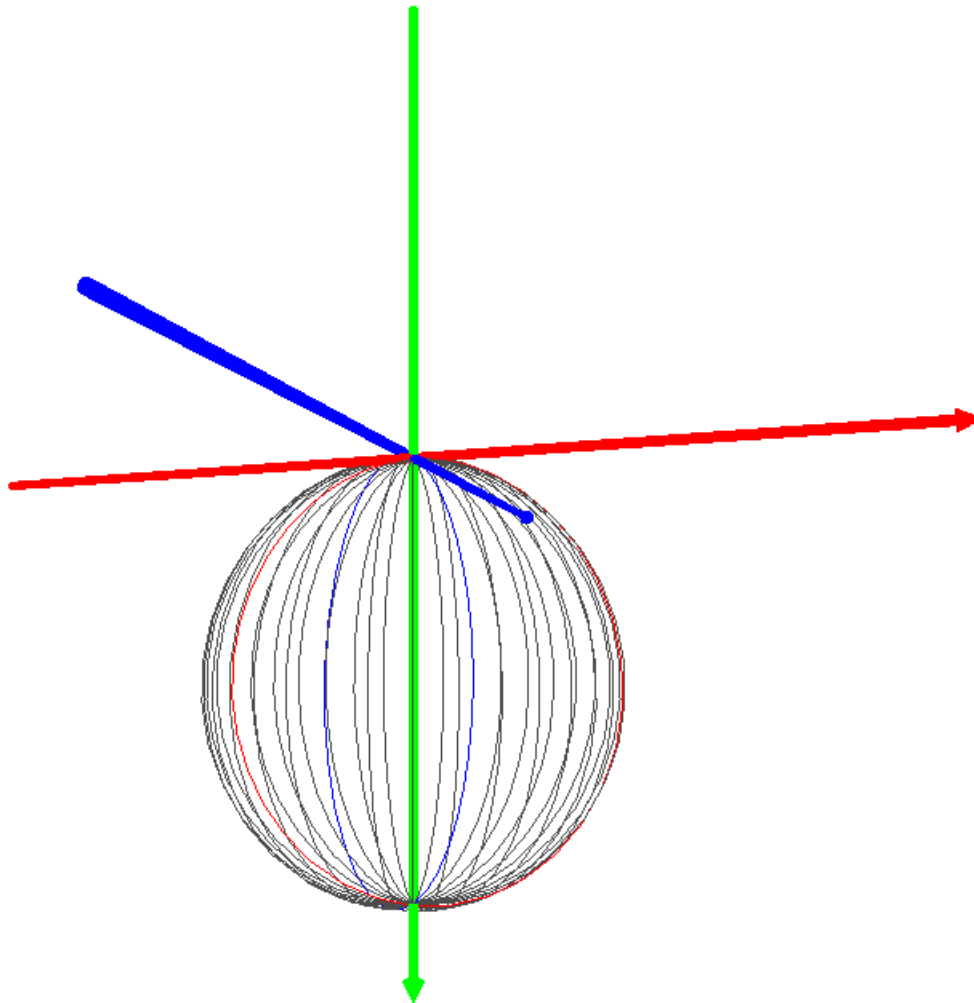
Distance [m]	Max illumince [lx]	Diameter [m]
1	1218.1800	3.062
2	304.5450	6.124
3	135.3533	9.186
4	76.1363	12.249
5	48.7272	15.311

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	113.7°	5.0°	-56.9°	56.9°
0-180°	113.2°	5.0°	-56.6°	56.6°
90-270°	114.5°	5.0°	-57.3°	57.3°

Stabilization



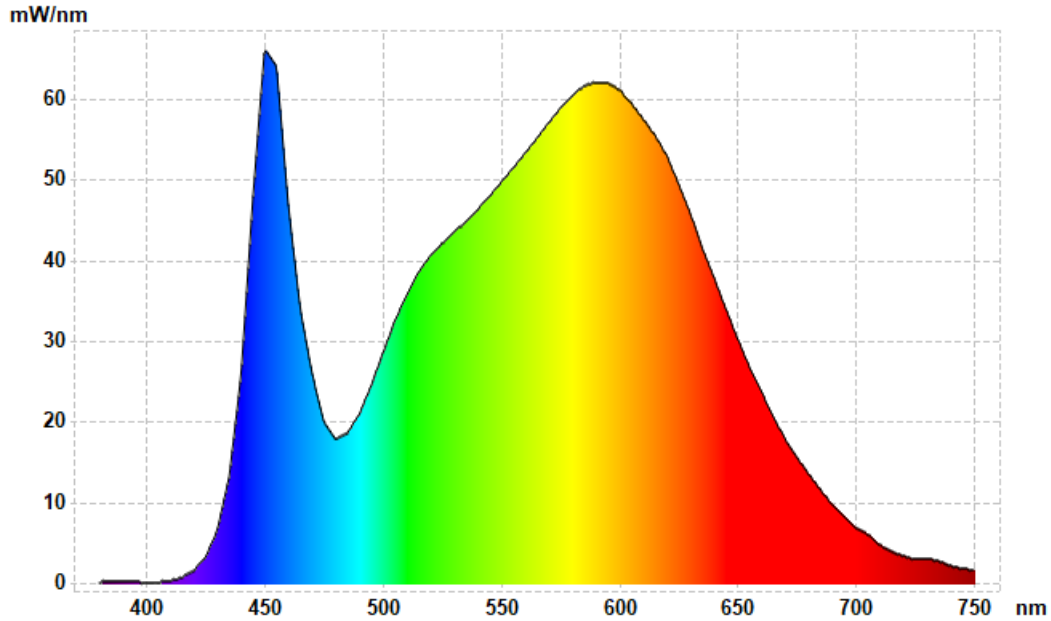
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0.3810	x	0.3875	CCT	4002
y	0.3792	y	0.3759	Chromaticity Error	0.003
Flux	3550.65 lm	u'	0.2301	Color Peak	452.76
		v'	0.5022	Color Peak Value	68.01
	3550.65	L	100.00	Color Dominant	578.5
u'	0.2245	a	14.15	Luminous Intensity	0.00
v'	0.5027	b	32.56	Purity	0.282
L	100.00	X	3886.04	Radiometric	10.5880
a	9.36	Y	3769.51	PAR	-
b	33.14	Z	2373.66	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	81.9	Ra	81.9	Mivis	2.0
R1	79.9	R8	62.3	Miuv	4.1
R2	88.8	R9	3.0	Binning	
R3	95.0	R10	73.3	Binning	4100K
R4	80.0	R11	78.5	Brightness	
R5	79.8	R12	58.4		
R6	84.1	R13	82.2		
R7	85.2	R14	97.5		