

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *Easy Fix 24W 2200lm 2700K kwadrat*
Item No: *249471*
Serial No.: *00702*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B580*
LuminaireName: *Easy Fix 24W 2150lm 2700K Kwadrat*
LuminaireNumber: *249471*
FileName: *B580_249471_00702_G_20190709_R_P*
Date: *2019-07-09*

Dimensions of luminaire

Length: *292 mm*
Width: *292 mm*
Height: *14 mm*

Dimensions of luminous area

Length: *250 mm*
Width: *250 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:	2123,90 lm
Color temperatur:	2891.72 K
Color rendering index:	81,22
Wattage including ballast:	24,93 W

Utilization factors:

k = 0.60	0,282
k = 0.80	0,370
k = 1.00	0,447
k = 1.20	0,523
k = 1.50	0,582
k = 2.00	0,671
k = 2.50	0,721
k = 3.00	0,759
k = 4.00	0,811
k = 5.00	0,844

Electrical parameters

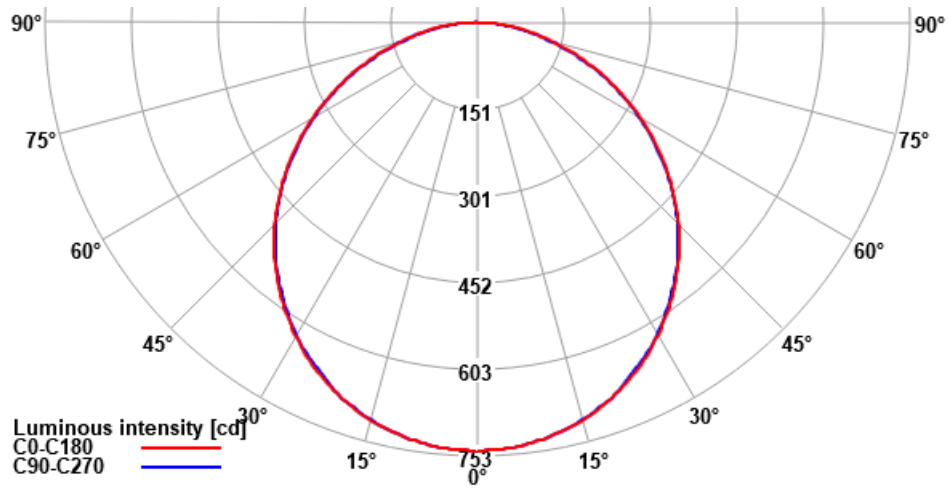
Power source:	IT7321 300VA
<i>U</i>	= 230,065 V
<i>I</i>	= 0,202 A
<i>P</i>	= 24,933 W
Power factor	= 0,537

Temperature = 23.9 C

Goniometric measurement results

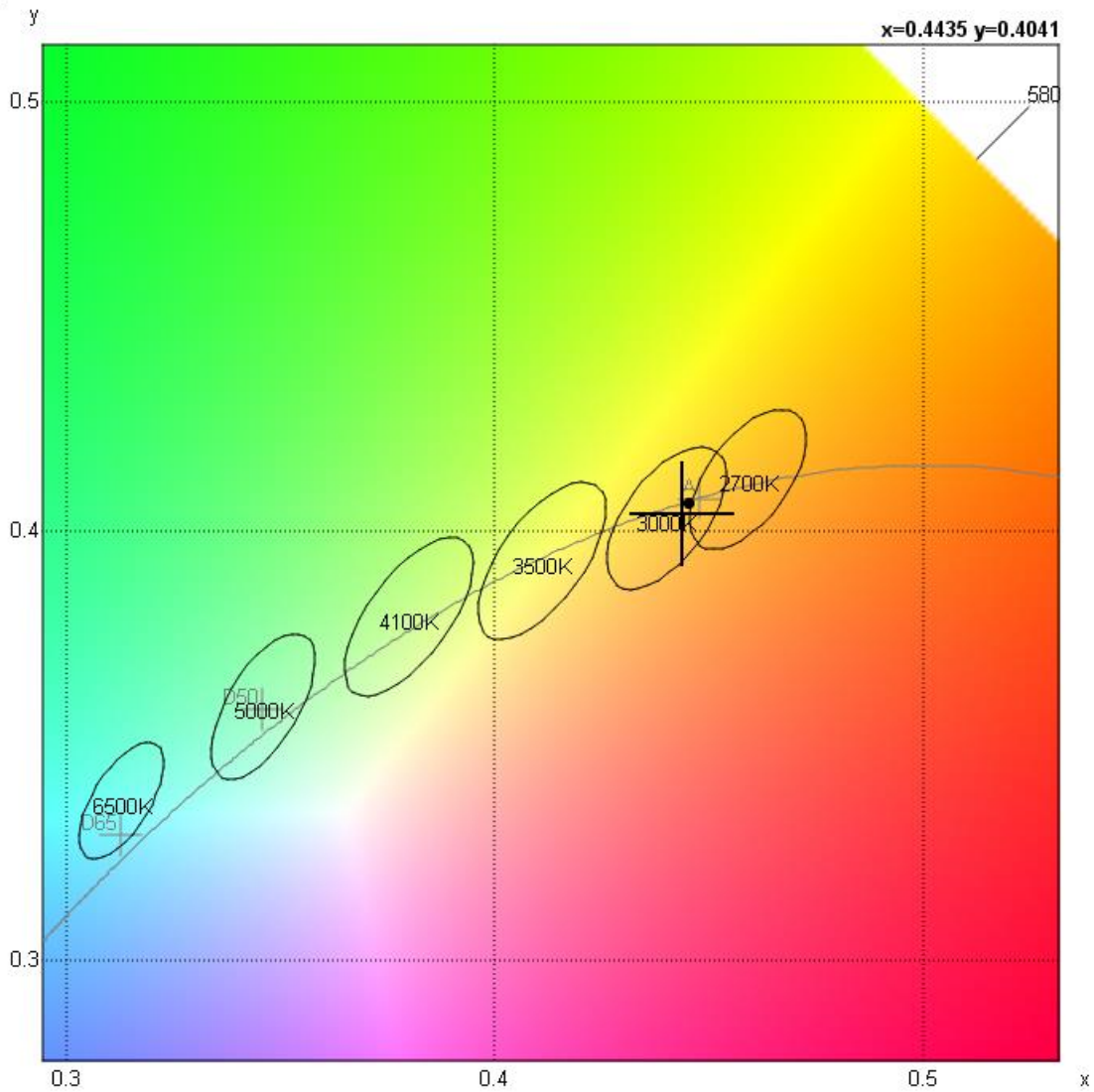
Total flux (utilized luminaire flux)	2123,90 lm
Flux in lower hemisphere	100,00 %
Flux in upper hemisphere	0,00 %
Maximum luminous intensity	745,71 cd
Light output ratio (LOR)	100,00 %
Luminous efficacy	85,19 lm/W

Light intensity distribution diagram

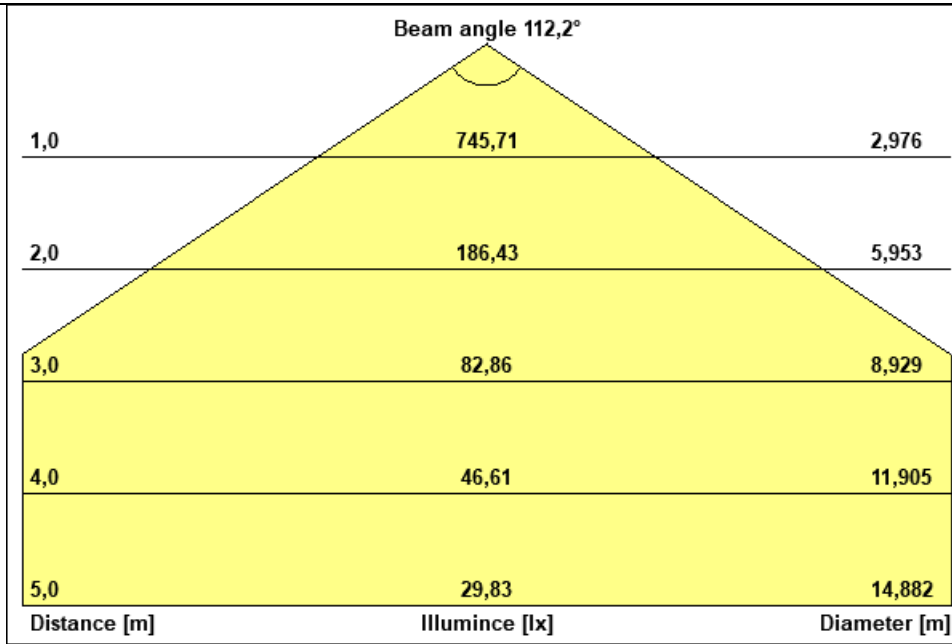


CIE 1931 diagram

x 0,4435
 y 0,4041
 Angular Colour Uniformity 0,0000
 Binning 3000K



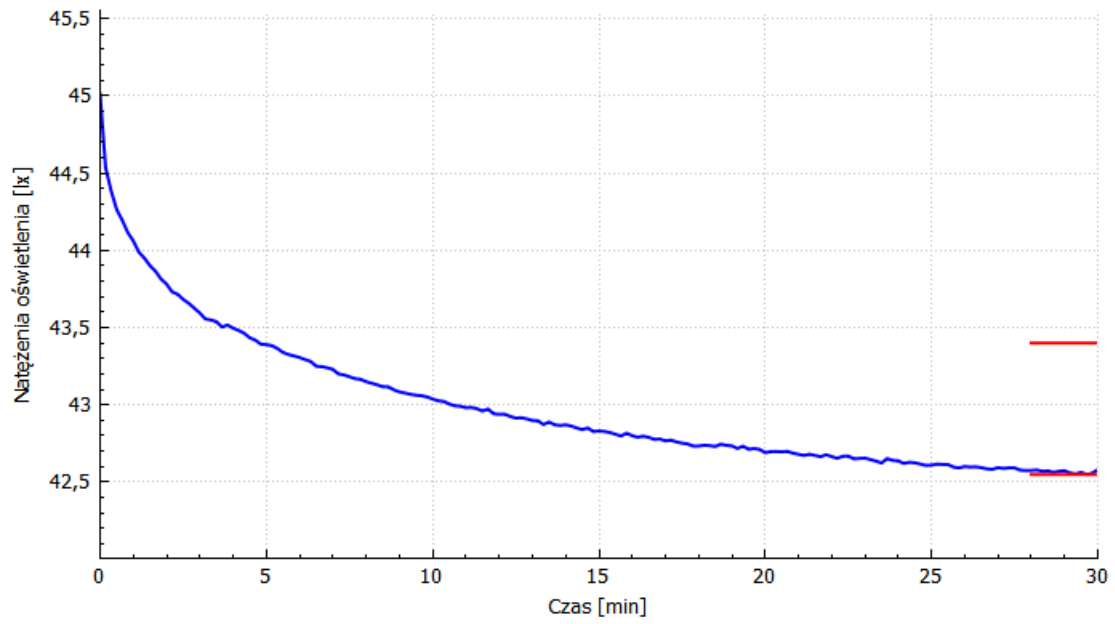
Beam cone



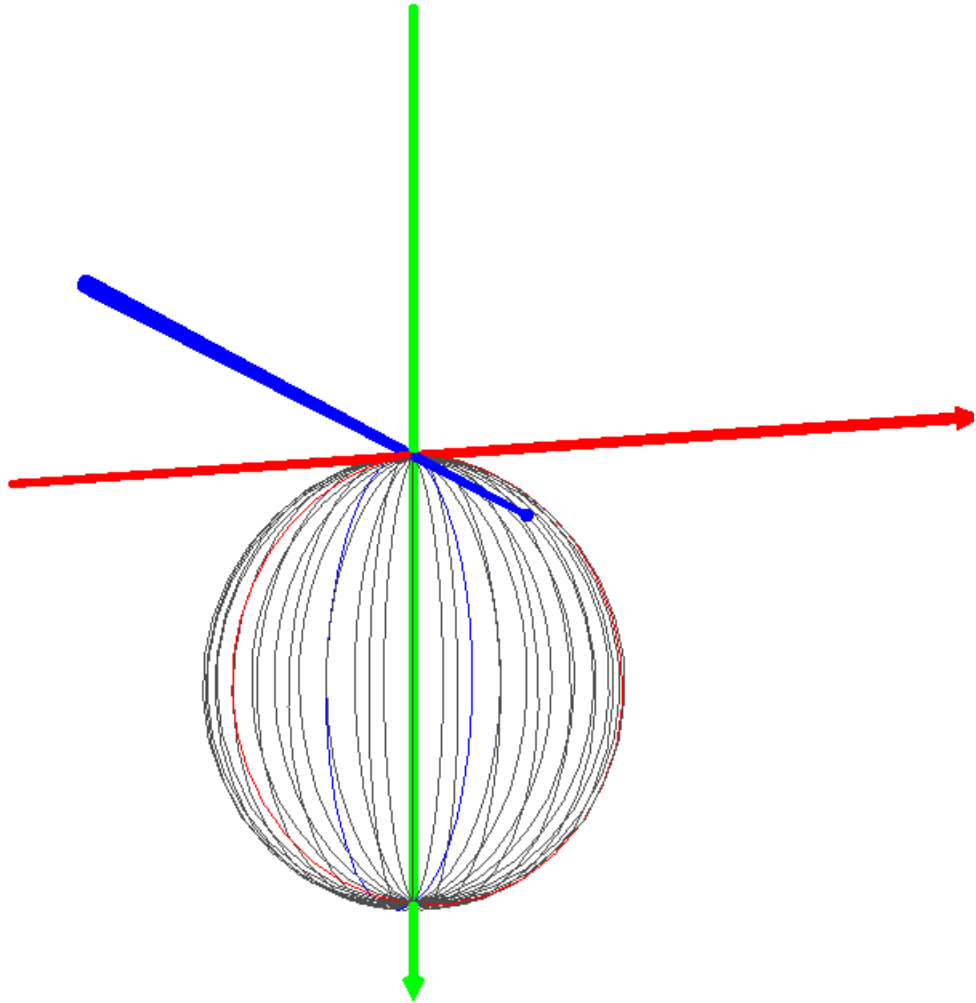
Distance [m]	Max illuminance [lx]	Diameter [m]
1	745,7077	2,976
2	186,4269	5,953
3	82,8564	8,929
4	46,6067	11,905
5	29,8283	14,882

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	112,2°	5,0°	-56,1°	56,1°
0-180°	112,6°	5,0°	-56,3°	56,3°
90-270°	112,2°	5,0°	-56,1°	56,1°

Stabilization



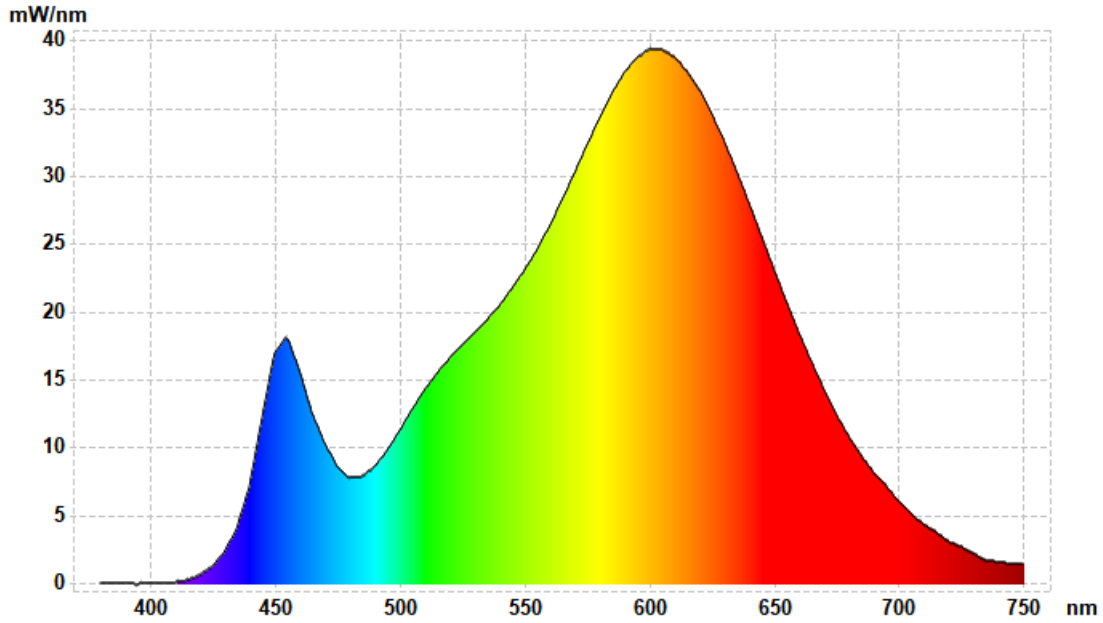
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,4435	x	0,4503	CCT	2892
y	0,4041	y	0,4001	Chromaticity Error	0,003
Flux	2123,90 lm	u'	0,2610	Color Peak	602,56
		v'	0,5218	Color Peak Value	39,44
		L	100,00	Color Dominant	583,6
u'	0,2548	a	29,41	Luminous Intensity	0,00
v'	0,5224	b	59,25	Purity	
L	100,00	X	2219,35	Radiometric	5,6850
a	24,58	Y	1972,01	PAR	-
b	59,53	Z	737,49	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	81,2	Ra	81,2	Mivis	2,6
R1	79,7	R8	56,0	Miuv	4,0
R2	91,3	R9	3,2	Binning	
R3	95,0	R10	80,0	Binning	3000K
R4	77,8	R11	76,3	Brightness	
R5	79,8	R12	70,9		
R6	89,3	R13	82,5		
R7	80,8	R14	98,1		