

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *Easy Fix 24W 2300lm 4000K*
Item No: *249488*
Serial No.: *00702*
Made by: *Norbert Chrzanowski*

Eulumdat Fields

Company: *LED line®*
Report number: *B190*
LuminaireName: *EASY FIX 24W 4000K kwadrat*
LuminaireNumber: *249488*
FileName: *B190_249488_00702_G_20190131_N_P*
Date: *2020-05-11*

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: 2287,16 lm
 Color temperatur: 3948.75 K
 Color rendering index: 81,53
 Wattage including ballast: 24,12 W

Utilization factors:

k = 0.60 0,283
 k = 0.80 0,372
 k = 1.00 0,449
 k = 1.20 0,524
 k = 1.50 0,583
 k = 2.00 0,672
 k = 2.50 0,722
 k = 3.00 0,760
 k = 4.00 0,812
 k = 5.00 0,844

Electrical parameters

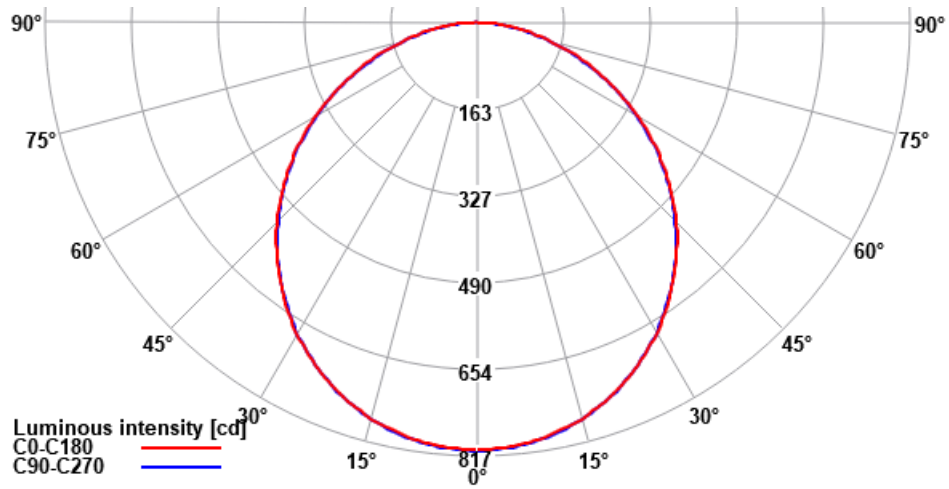
Power source: IT7321 300VA
 U = 230,037 V
 I = 0,202 A
 P = 24,830 W
 Power factor = 0,534

Temperature = 23.8 C

Goniometric measurement results

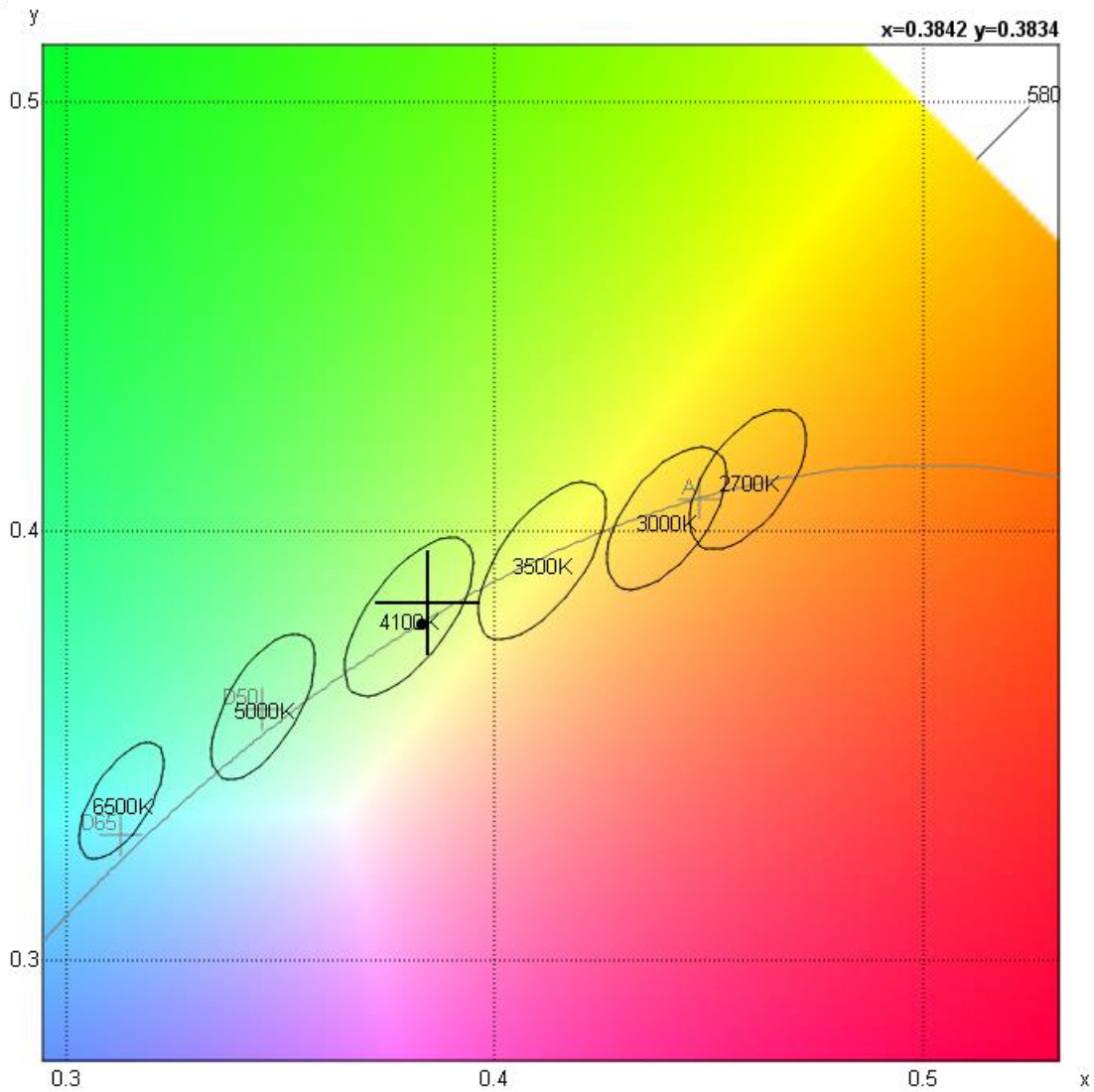
Total flux (utilized luminaire flux)	2287,16 <i>lm</i>
Flux in lower hemisphere	100,00 %
Flux in upper hemisphere	-0,00 %
Maximum luminous intensity	809,64 <i>cd</i>
Light output ratio (LOR)	100,00 %
Luminous efficacy	94,82 <i>lm/W</i>

Light intensity distribution diagram

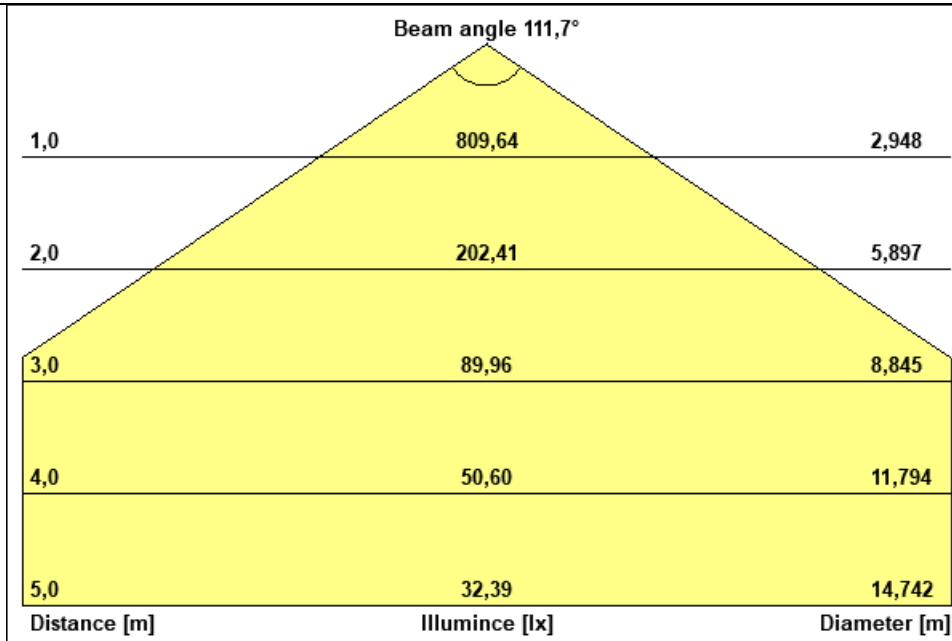


CIE 1931 diagram

x 0,3842
 y 0,3834
 Angular Colour Uniformity 0,0000
 Binning 4100K



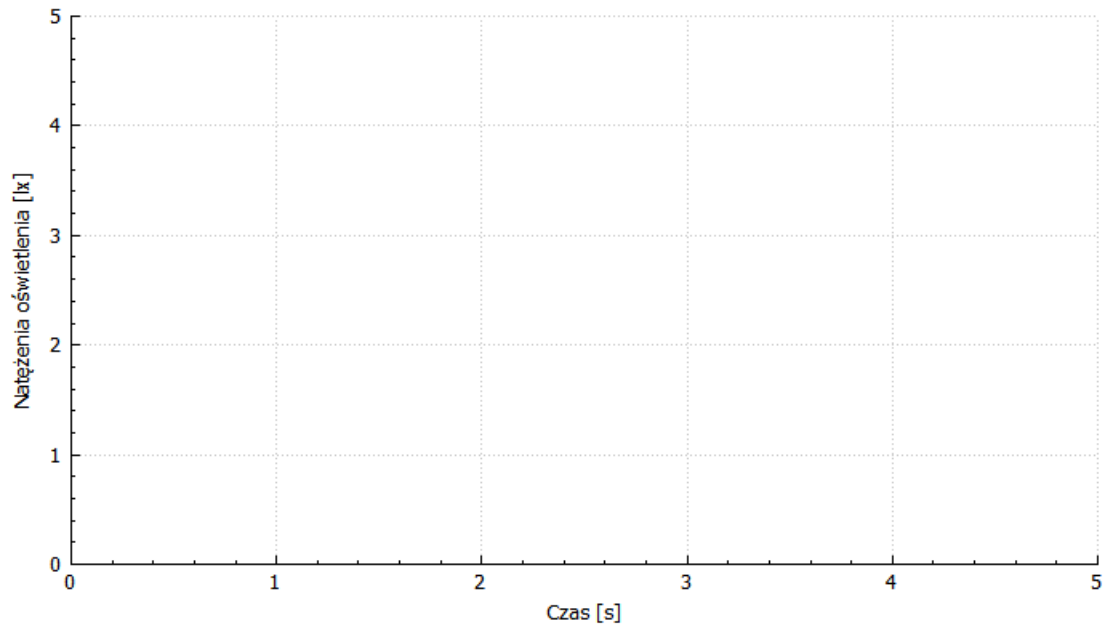
Beam cone



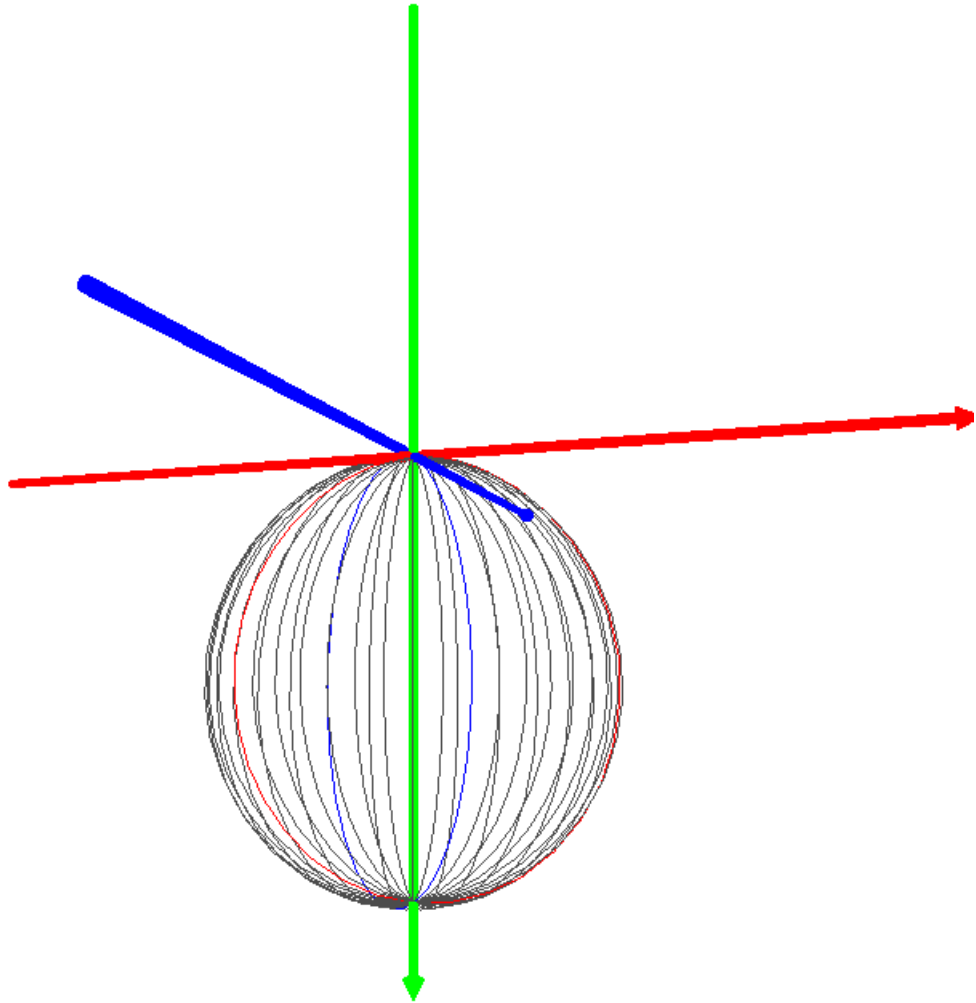
Distance [m]	Max illuminance [lx]	Diameter [m]
1	809,6360	2,948
2	202,4090	5,897
3	89,9596	8,845
4	50,6022	11,794
5	32,3854	14,742

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	111,7°	5,0°	-55,8°	55,8°
0-180°	111,9°	5,0°	-56,0°	56,0°
90-270°	111,2°	5,0°	-55,6°	55,6°

Stabilization



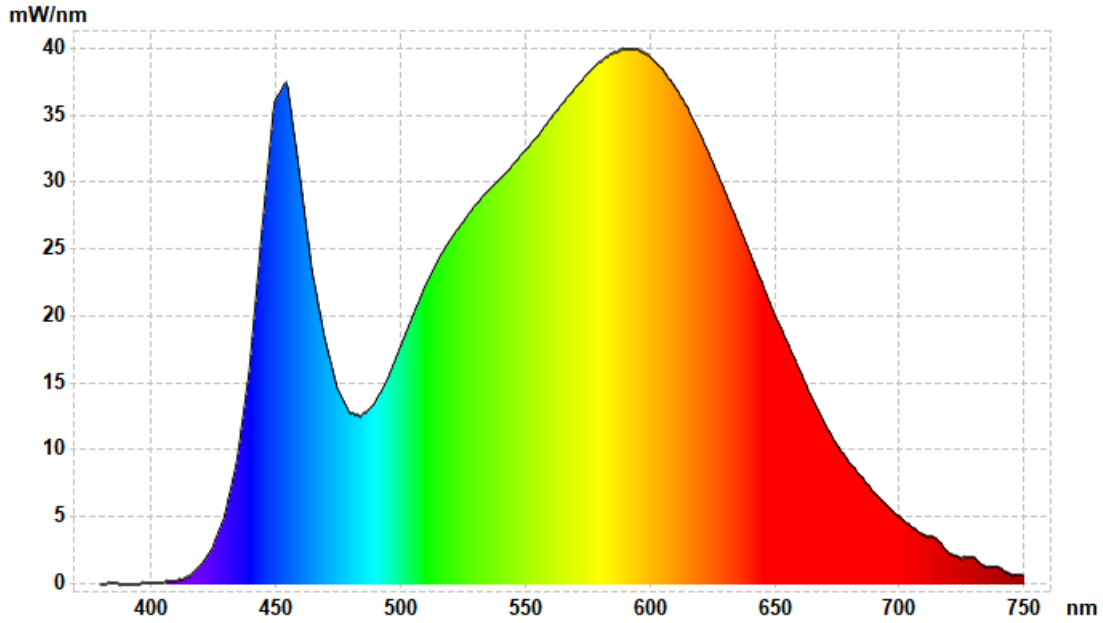
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3842	x	0,3910	CCT	3949
y	0,3834	y	0,3802	Chromaticity Error	0,003
Flux	2287,16 lm	u'	0,2307	Color Peak	594,00
		v'	0,5047	Color Peak Value	39,92
		L	100,00	Color Dominant	578,3
u'	0,2249	a	13,76	Luminous Intensity	0,00
v'	0,5050	b	35,07	Purity	
L	100,00	X	2495,41	Radiometric	6,8078
a	8,90	Y	2426,15	PAR	-
b	35,47	Z	1460,05	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	81,5	Ra	81,5	Mivis	2,1
R1	79,3	R8	62,0	Miuv	4,1
R2	88,7	R9	2,5	Binning	
R3	95,1	R10	72,6	Binning	4100K
R4	79,0	R11	76,8	Brightness	
R5	79,0	R12	58,3		
R6	83,9	R13	81,7		
R7	85,4	R14	97,5		