

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line*[®]
Model name: *Naświetlacz PROJECT 16W 1760lm 4000K*
Item No: *470508*
Serial No.: *63311*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line*[®]
Report number: *B1310*
LuminaireName: *Naświetlacz PROJECT 16W 1760lm 4000K*
LuminaireNumber: *470508*
FileName: *B1310_470508_63311_G_20200403_R_P*
Date: *2020-04-03*

Dimensions of luminaire

Length: *149 mm*
Width: *194 mm*
Height: *55 mm*

Dimensions of luminous area

Length: *80 mm*
Width: *65 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: 1740,50 lm
 Color temperatur: 3919.25 K
 Color rendering index: 81,39
 Wattage including ballast: 15,47 W

Utilization factors:

k = 0.60 0,439
 k = 0.80 0,535
 k = 1.00 0,615
 k = 1.20 0,686
 k = 1.50 0,737
 k = 2.00 0,812
 k = 2.50 0,842
 k = 3.00 0,865
 k = 4.00 0,895
 k = 5.00 0,912

Electrical parameters

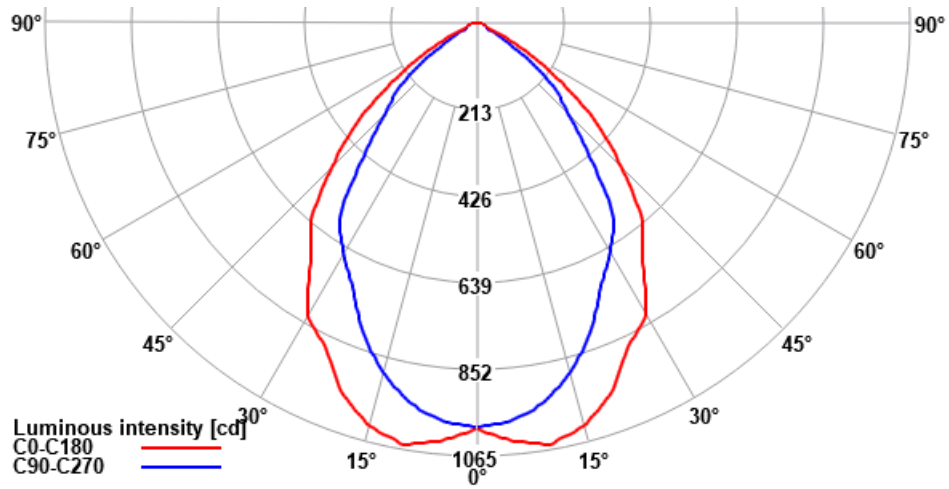
Power source: IT7321 300VA
 U = 230,099 V
 I = 0,083 A
 P = 15,467 W
 Power factor = 0,813

Temperature = 23.6 C

Goniometric measurement results

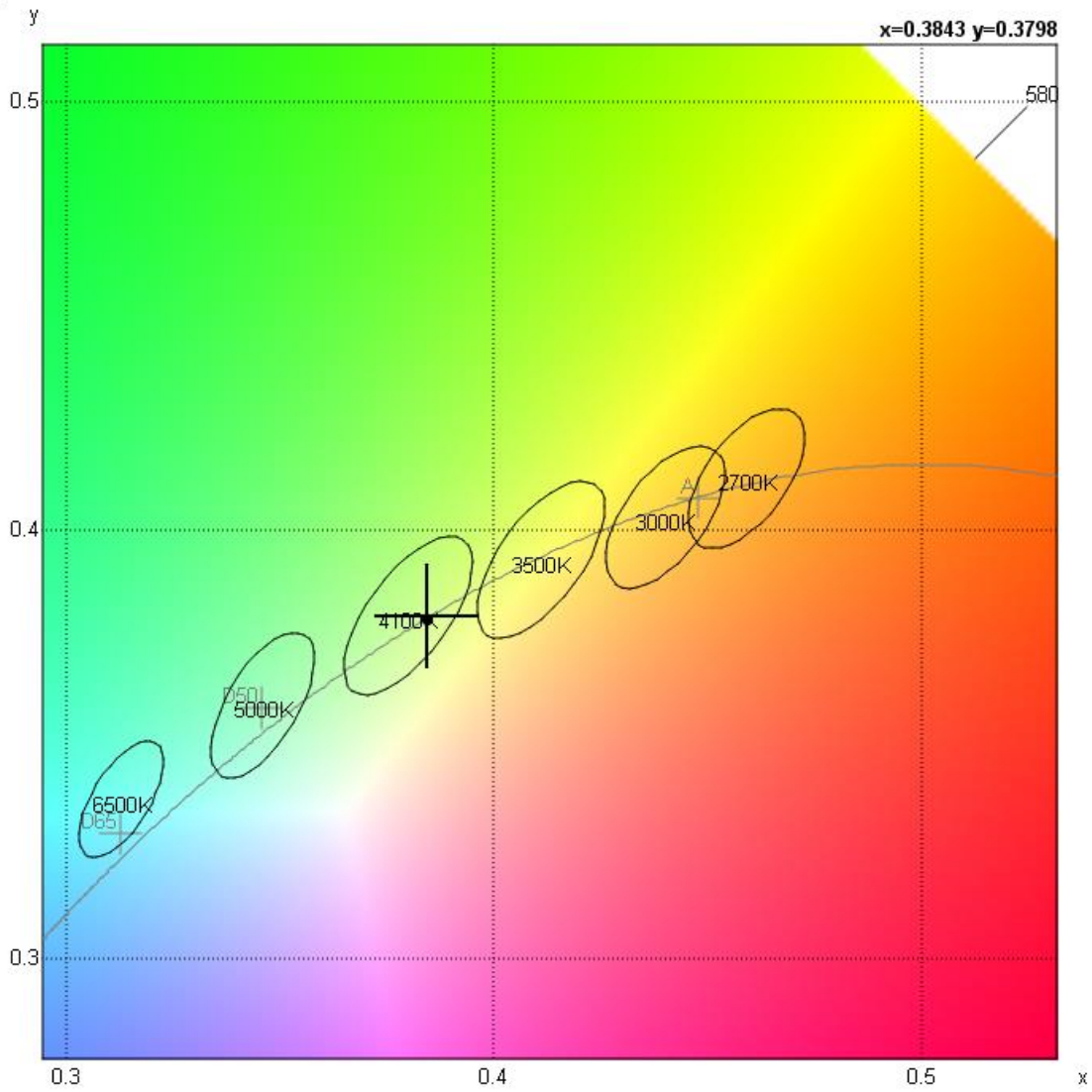
Total flux (utilized luminaire flux)	<i>1740,50 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>0,00 %</i>
Maximum luminous intensity	<i>1054,20 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>112,51 lm/W</i>

Light intensity distribution diagram

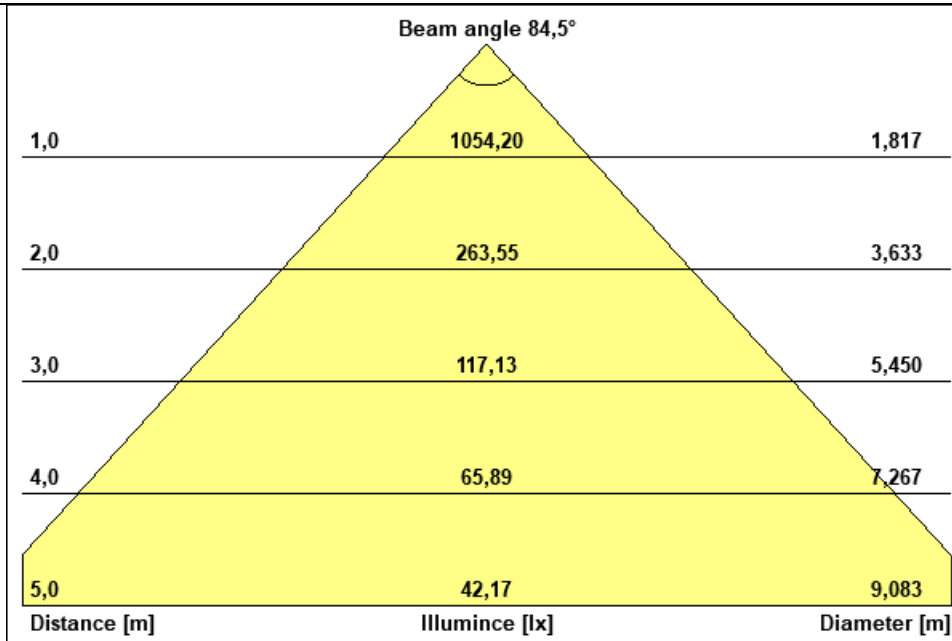


CIE 1931 diagram

x 0,3843
 y 0,3798
 Angular Colour Uniformity 0,0000
 Binning 4100K



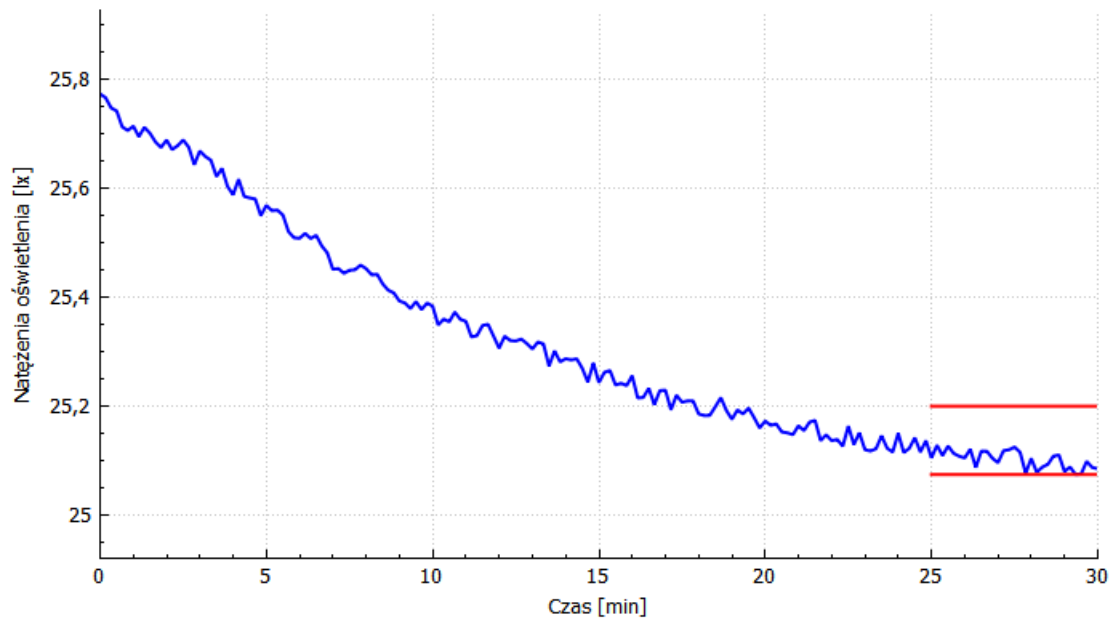
Beam cone



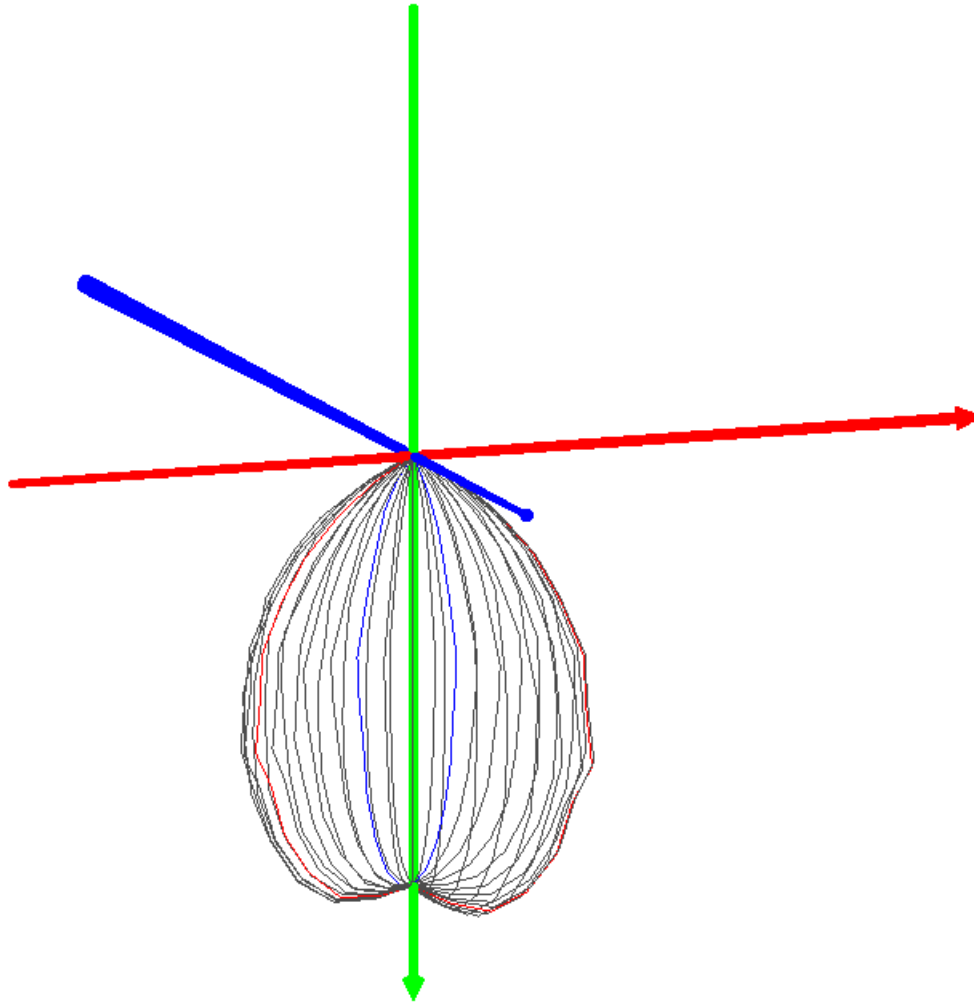
Distance [m]	Max illuminance [lx]	Diameter [m]
1	1054,2034	1,817
2	263,5509	3,633
3	117,1337	5,450
4	65,8877	7,267
5	42,1681	9,083

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	84,5°	8,3°	-42,3°	42,3°
0-180°	88,2°	10,0°	-44,1°	44,1°
90-270°	76,3°	5,0°	-38,1°	38,1°




Stabilization



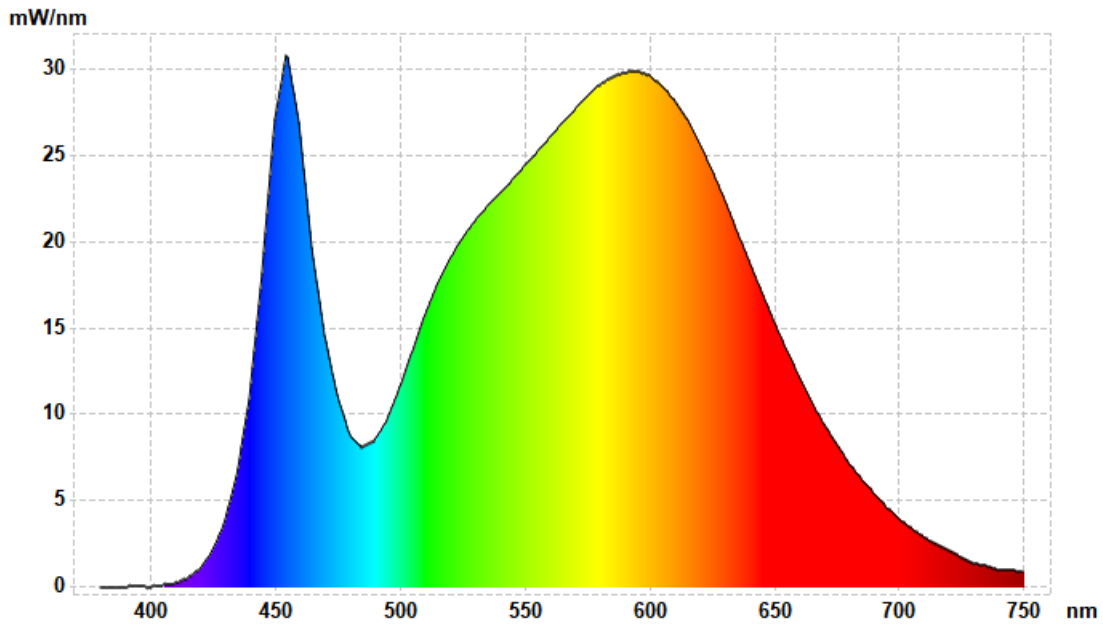
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3843	x	0,3911	CCT	3919
y	0,3798	y	0,3764	Chromaticity Error	0,003
Flux	1740,50 lm	u'	0,2323	Color Peak	454,60
		v'	0,5030	Color Peak Value	31,10
		L	100,00	Color Dominant	579,2
u'	0,2264	a	15,51	Luminous Intensity	0,00
v'	0,5035	b	33,62	Purity	
L	100,00	X	1886,00	Radiometric	5,1317
a	10,53	Y	1815,06	PAR	-
b	34,15	Z	1121,26	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	81,4	Ra	81,4	Mivis	2,2
R1	79,7	R8	62,8	Miuv	4,1
R2	88,6	R9	5,1	Binning	
R3	94,0	R10	71,5	Binning	4100K
R4	78,7	R11	75,9	Brightness	
R5	78,9	R12	55,8		
R6	83,1	R13	82,0		
R7	85,4	R14	96,7		