

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *Plafon okrągły 220-240V 16W LUNAR z czujnikiem ruchu*
Item No: *470584*
Serial No.: *66411*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B1389*
LuminaireName: *Plafon okrągły 220-240V 16W LUNAR z czujnikiem ruchu*
LuminaireNumber: *470584*
FileName: *B1389_470584_66411_G_20200603_R_O*
Date: *2020-06-03*

Dimensions of luminaire

Length: *265 mm*
Width: *0 mm*
Height: *40 mm*

Dimensions of luminous area

Length: *235 mm*
Width: *0 mm*
C0-plane *10 mm*
C90-plane *10 mm*
C180-plane *10 mm*
C270-plane *10 mm*

Lamps:

Number of lamps: 1
 Type of lamps: 0
 Total luminous flux: 1499,34 lm
 Color temperatur: 4008.78 K
 Color rendering index: 83,63
 Wattage including ballast: 15,20 W

Utilization factors:

k = 0.60 0,274
 k = 0.80 0,361
 k = 1.00 0,437
 k = 1.20 0,511
 k = 1.50 0,569
 k = 2.00 0,657
 k = 2.50 0,708
 k = 3.00 0,746
 k = 4.00 0,798
 k = 5.00 0,831

Electrical parameters

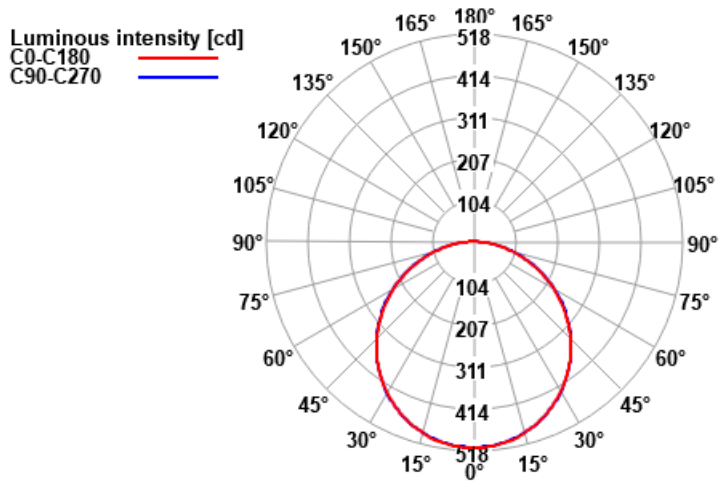
Power source: IT7321 300VA
 U = 230,113 V
 I = 0,073 A
 P = 15,202 W
 Power factor = 0,905

Temperature = 23.3 C

Goniometric measurement results

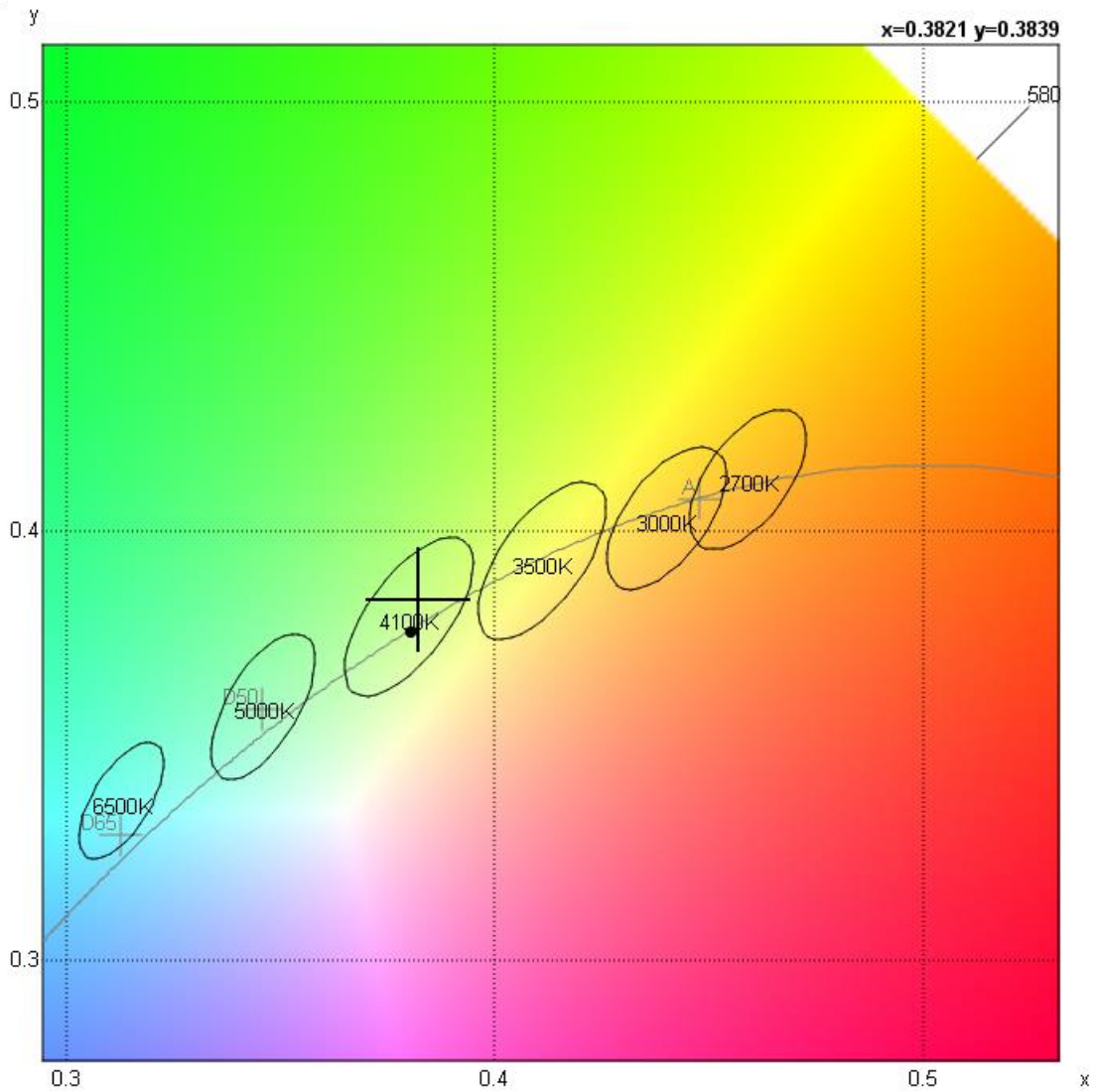
Total flux (utilized luminaire flux)	<i>1499,34 lm</i>
Flux in lower hemisphere	<i>99,43 %</i>
Flux in upper hemisphere	<i>0,57 %</i>
Maximum luminous intensity	<i>512,85 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>98,62 lm/W</i>

Light intensity distribution diagram

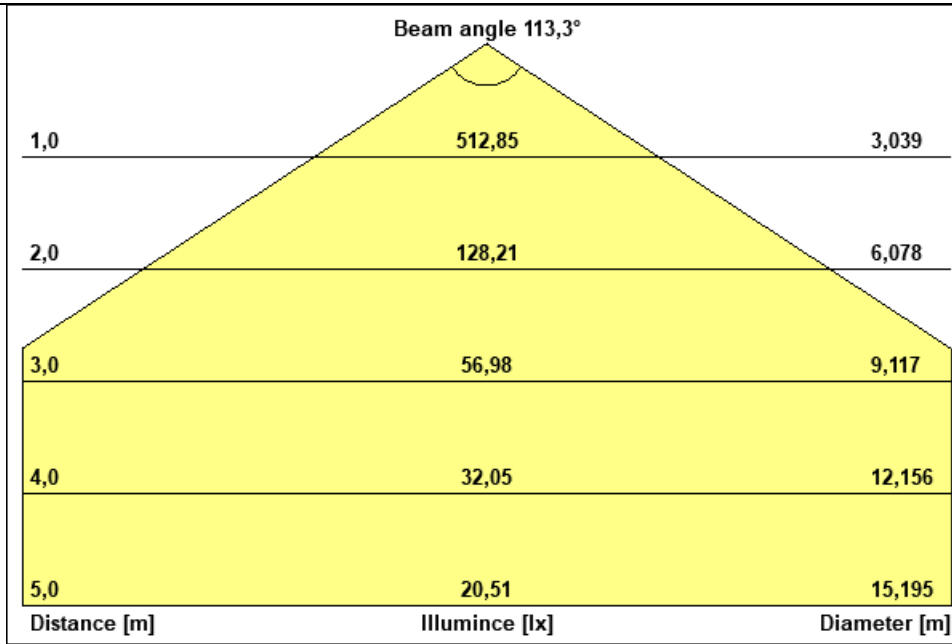


CIE 1931 diagram

x 0,3821
y 0,3839
Angular Colour Uniformity 0,0000
Binning 4100K



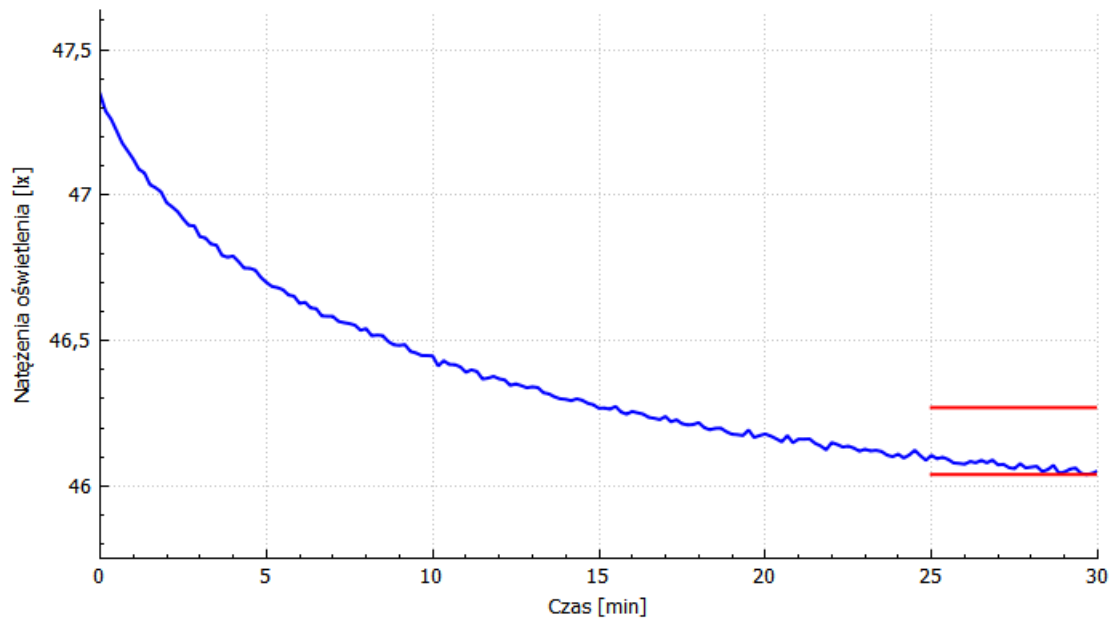
Beam cone



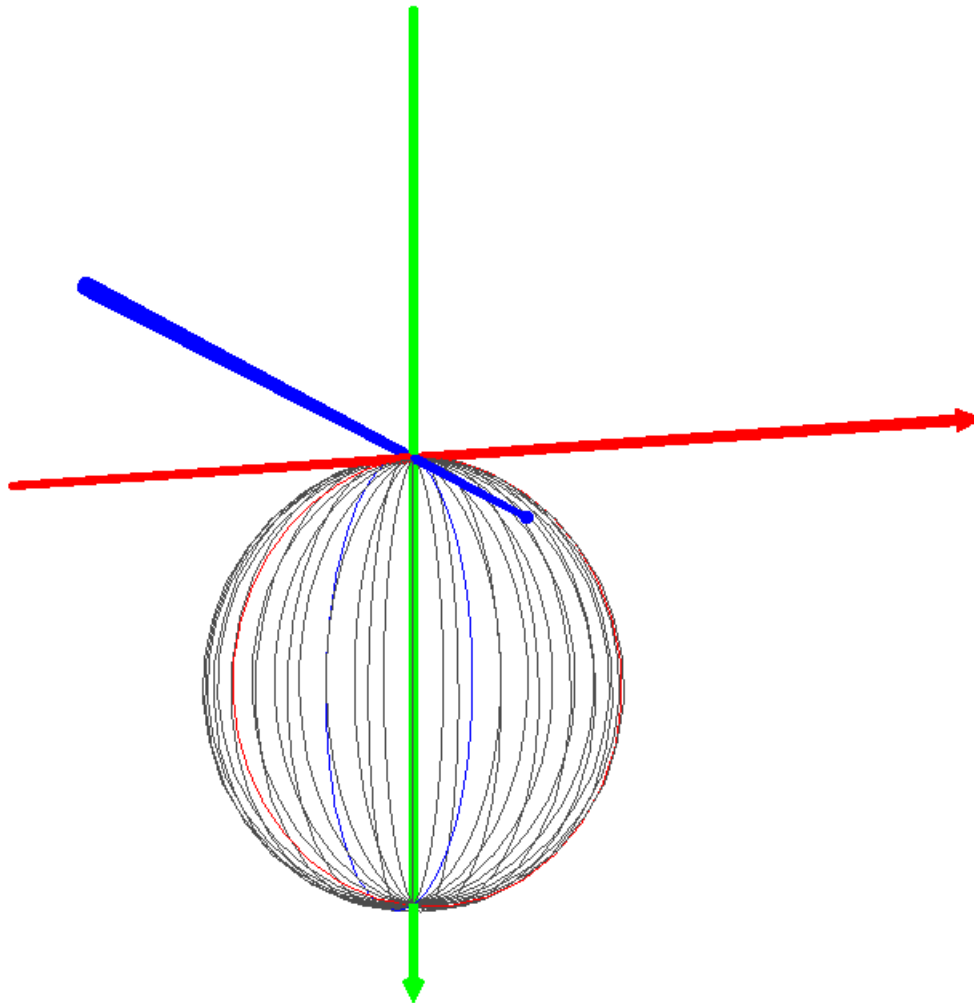
Distance [m]	Max illuminance [lx]	Diameter [m]
1	512,8466	3,039
2	128,2117	6,078
3	56,9830	9,117
4	32,0529	12,156
5	20,5139	15,195

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	113,3°	5,0°	-56,6°	56,6°
0-180°	113,0°	5,0°	-56,5°	56,5°
90-270°	113,7°	5,0°	-56,9°	56,9°

Stabilization



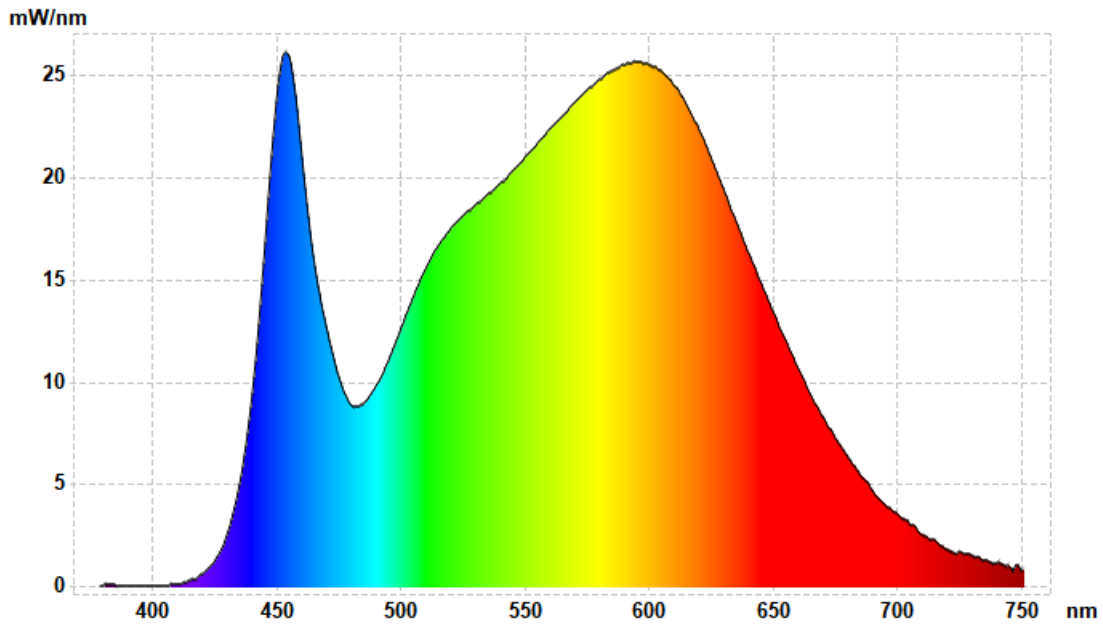
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3821	x	0,3888	CCT	4009
y	0,3839	y	0,3818	Chromaticity Error	0,004
Flux	1499,34 lm	u'	0,2286	Color Peak	454,60
		v'	0,5050	Color Peak Value	26,25
		L	100,00	Color Dominant	577,6
u'	0,2233	a	12,05	Luminous Intensity	0,00
v'	0,5049	b	35,14	Purity	
L	100,00	X	1623,53	Radiometric	4,5191
a	7,73	Y	1594,34	PAR	-
b	35,15	Z	958,22	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	83,6	Ra	83,6	Mivis	2,2
R1	81,9	R8	64,8	Miuv	3,9
R2	90,5	R9	10,4	Binning	
R3	96,2	R10	77,2	Binning	4100K
R4	81,2	R11	80,0	Brightness	
R5	81,4	R12	60,1		
R6	86,6	R13	84,2		
R7	86,3	R14	98,2		