

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *LUNAR 16W*
Item No: *470577*
Serial No.: *66411*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B1374*
LuminaireName: *LUNAR 16W*
LuminaireNumber: *470577*
FileName: *B1374_470577_66411_G_20200527_R_O*
Date: *2020-05-27*

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: 1462,30 lm
Color temperatur: 3992.79 K
Color rendering index: 83,46
Wattage including ballast: 15,93 W

Utilization factors:

k = 0.60	0,275
k = 0.80	0,362
k = 1.00	0,438
k = 1.20	0,513
k = 1.50	0,570
k = 2.00	0,659
k = 2.50	0,709
k = 3.00	0,747
k = 4.00	0,799
k = 5.00	0,832

Electrical parameters

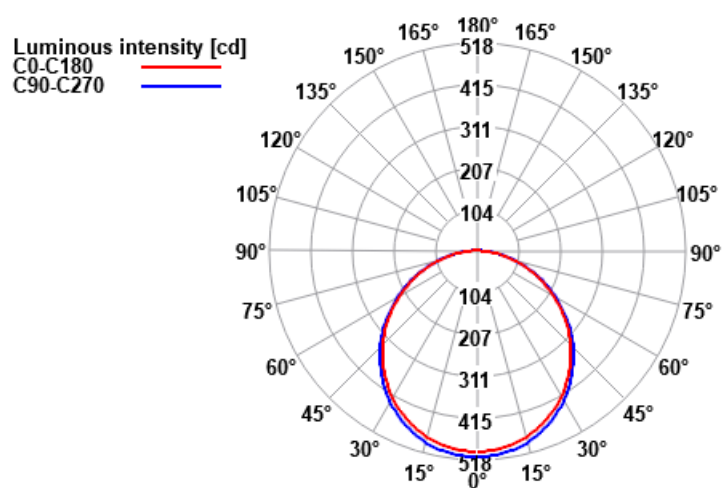
Power source: IT7321 300VA
 U = 229,975 V
 I = 0,126 A
 P = 15,928 W
Power factor = 0,550

Temperature = 23.7 C

Goniometric measurement results

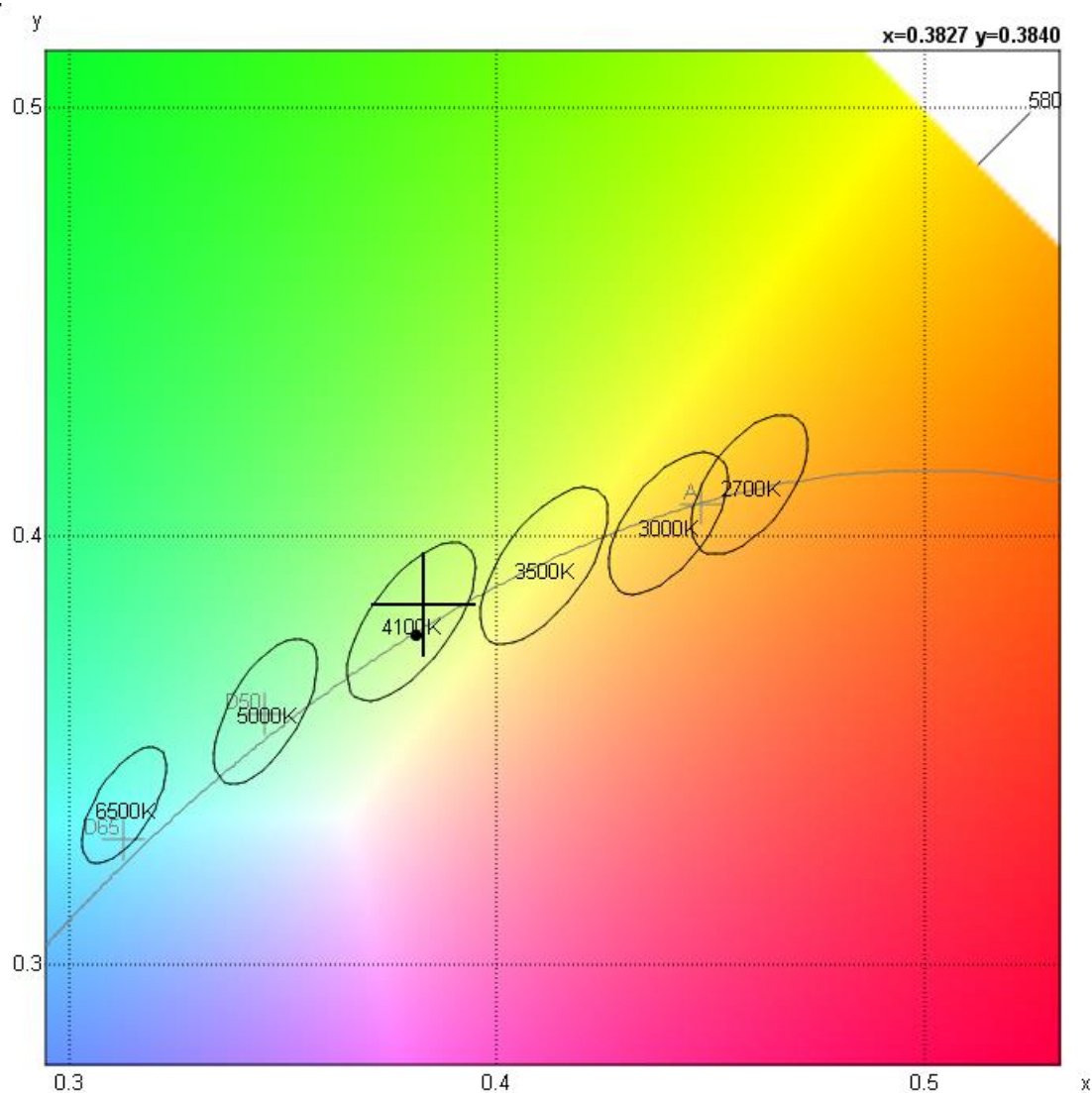
Total flux (utilized luminarie flux)	<i>1462,30 lm</i>
Flux in lower hemisphere	<i>99,57 %</i>
Flux in upper hemisphere	<i>0,43 %</i>
Maximum luminous intensity	<i>513,21 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>91,80 lm/W</i>

Light intensity distribution diagram

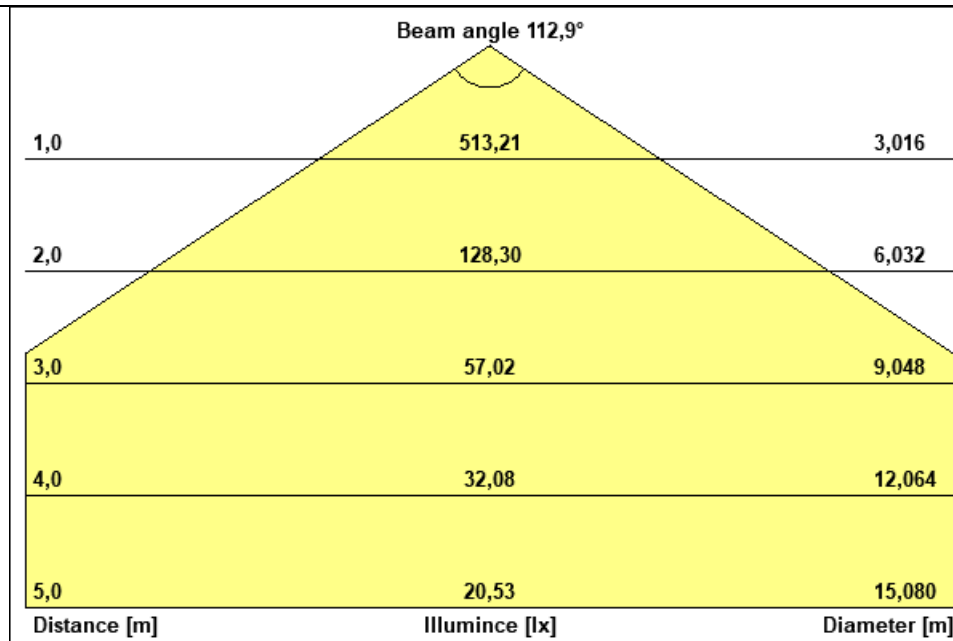


CIE 1931 diagram

x 0,3827
y 0,3840
Angular Colour Uniformity 0,0000
Binning 4100K



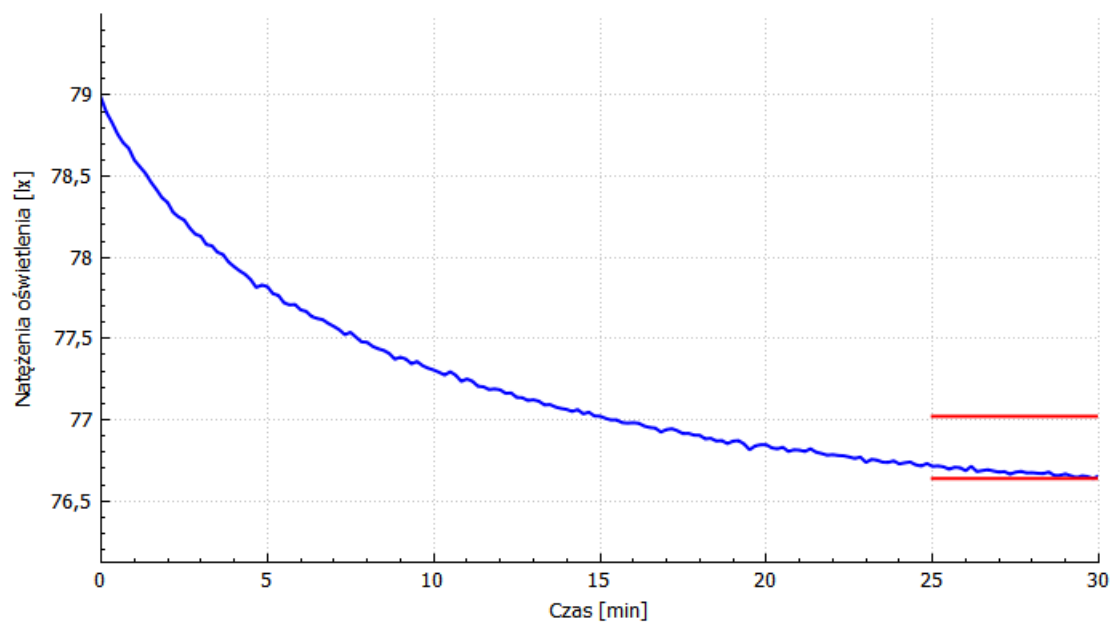
Beam cone



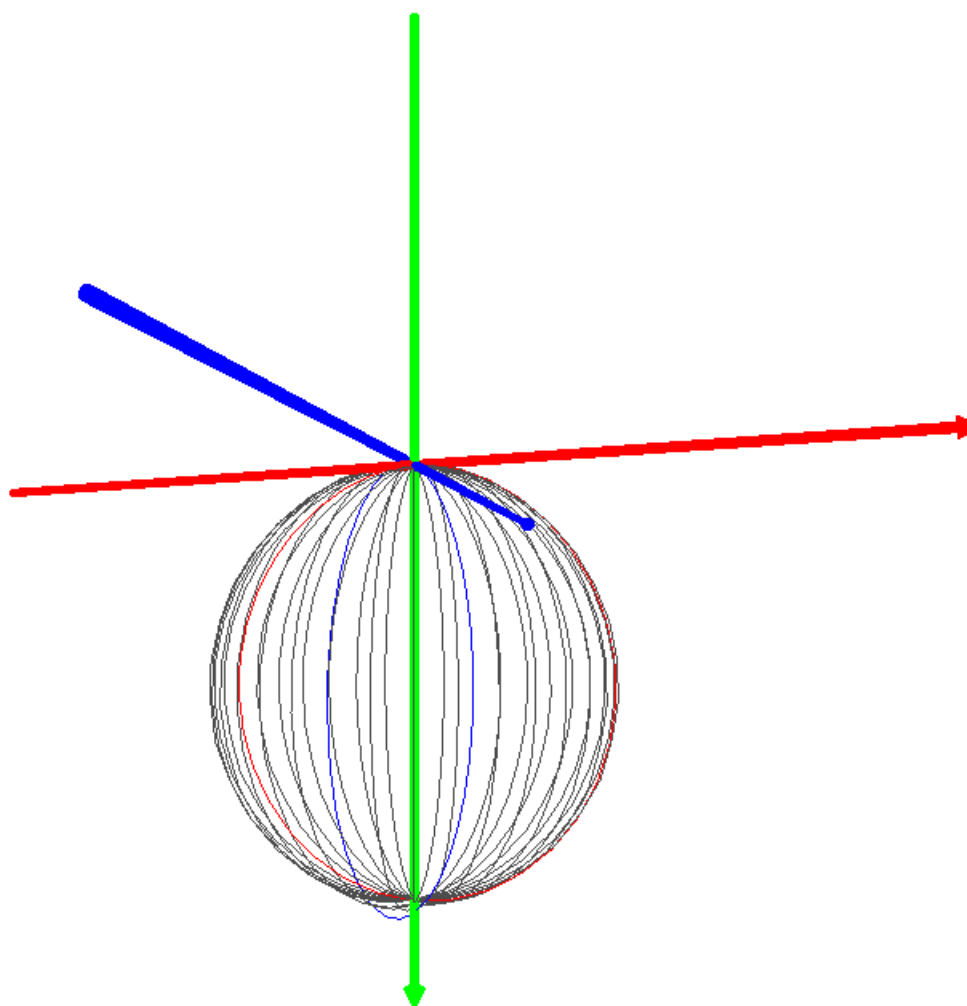
Distance [m]	Max illuminance [lx]	Diameter [m]
1	513,2098	3,016
2	128,3025	6,032
3	57,0233	9,048
4	32,0756	12,064
5	20,5284	15,080

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	112,9°	5,0°	-56,5°	56,5°
0-180°	112,4°	5,0°	-56,2°	56,2°
90-270°	112,4°	5,0°	-56,2°	56,2°

Stabilization



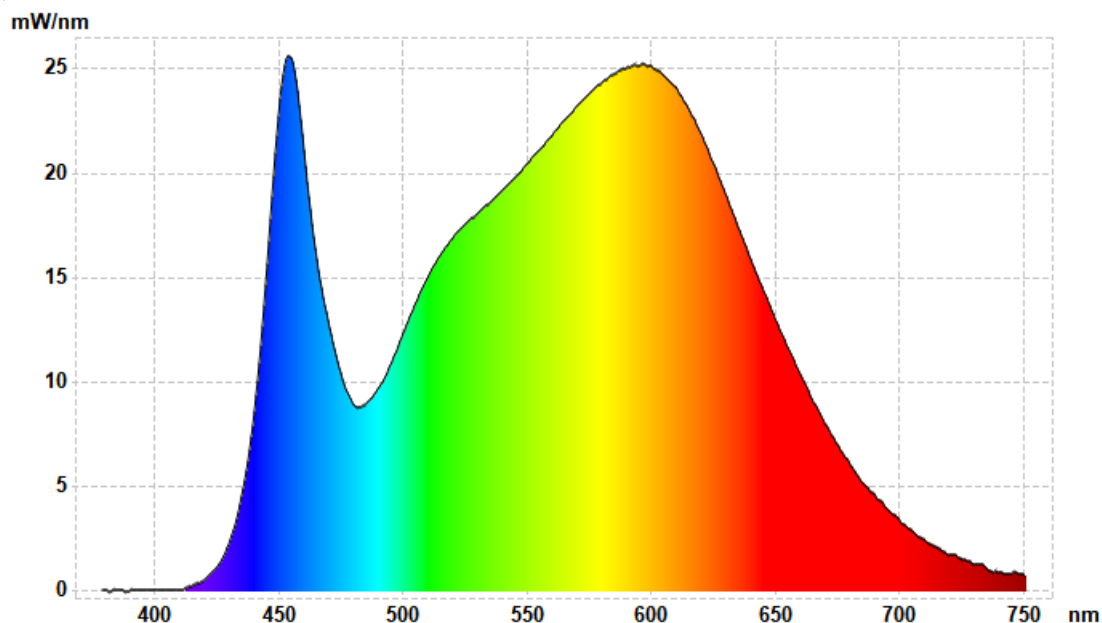
3D Chart



Legend

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

Spectral distribution



Results

CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3827	x	0,3895	CCT	3993
y	0,3840	y	0,3822	Chromaticity Error	0,004
Flux	1462,30 lm	u'	0,2289	Color Peak	454,60
		v'	0,5053	Color Peak Value	25,73
		L	100,00	Color Dominant	577,7
u'	0,2237	a	12,19	Luminous Intensity	0,00
v'	0,5051	b	35,46	Purity	
L	100,00	X	1585,02	Radiometric	4,3949
a	7,95	Y	1555,27	PAR	-
b	35,36	Z	929,35	PPFD	-

Rendering Indices

Ra		Ra		Metamerism Indices	
Ra	83,5	Ra	83,5	Mivis	2,3
R1	81,7	R8	64,2	Miuv	3,9
R2	90,9	R9	9,3	Binning	
R3	96,3	R10	77,8	Binning	4100K
R4	80,6	R11	79,3	Brightness	
R5	81,3	R12	60,0		
R6	86,9	R13	84,3		
R7	85,8	R14	98,4		