

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line*
Model name: *RANGER C 40W 4000K 170lm/W 1-10V IP66*
Item No: *201262*
Serial No.: *21004*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line*
Report number: *B3743*
LuminaireName: *LED line PRIME RANGER C 40W 4000K 170lm/W 1-10V IP66*
LuminaireNumber: *201262*
FileName: *201262*
Date: *2023-08-09*

Dimensions of luminaire

Length: *1197 mm*
Width: *94 mm*
Height: *76 mm*

Dimensions of luminous area

Length: *1180 mm*
Width: *78 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:	6717.90 lm
Color temperatur:	4139 K
Color rendering index:	83.27
Wattage including ballast:	40.43 W

Utilization factors:

k = 0.60	0.263
k = 0.80	0.347
k = 1.00	0.420
k = 1.20	0.491
k = 1.50	0.547
k = 2.00	0.633
k = 2.50	0.682
k = 3.00	0.720
k = 4.00	0.772
k = 5.00	0.806

Electrical parameters

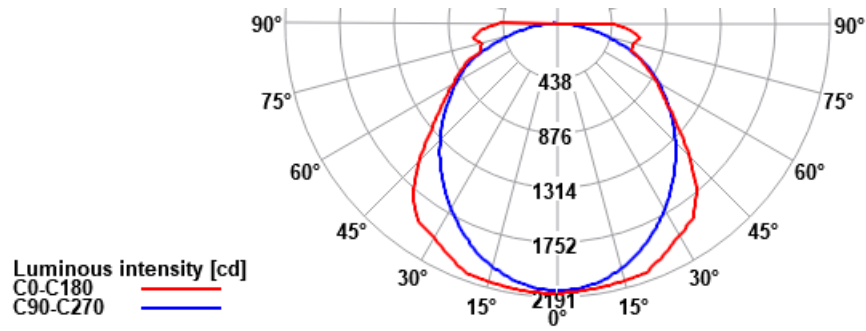
Power source:	IT7321 300VA
<i>U</i>	= 230.030 V
<i>I</i>	= 0.180 A
<i>P</i>	= 40.434 W
Power factor	= 0.974

Temperature = 22.8 C

Goniometric measurement results

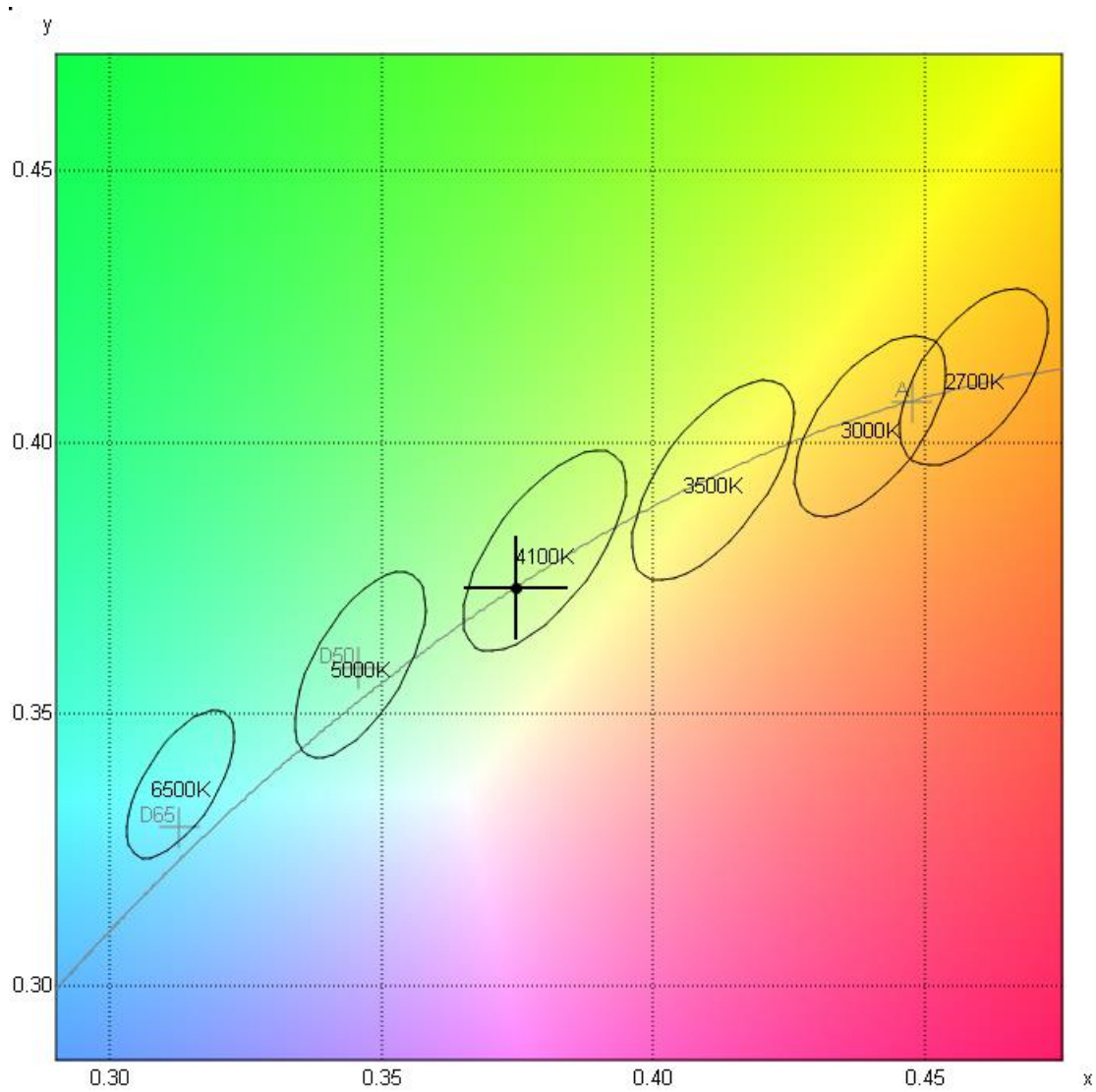
Total flux (utilized luminarie flux)	6717.90 <i>lm</i>
Flux in lower hemisphere	100.00 %
Flux in upper hemisphere	0.00 %
Maximum luminous intensity	2171.76 <i>cd</i>
Light output ratio (LOR)	100.00 %
Luminous efficacy	166.16 <i>lm/W</i>

Light intensity distribution diagram

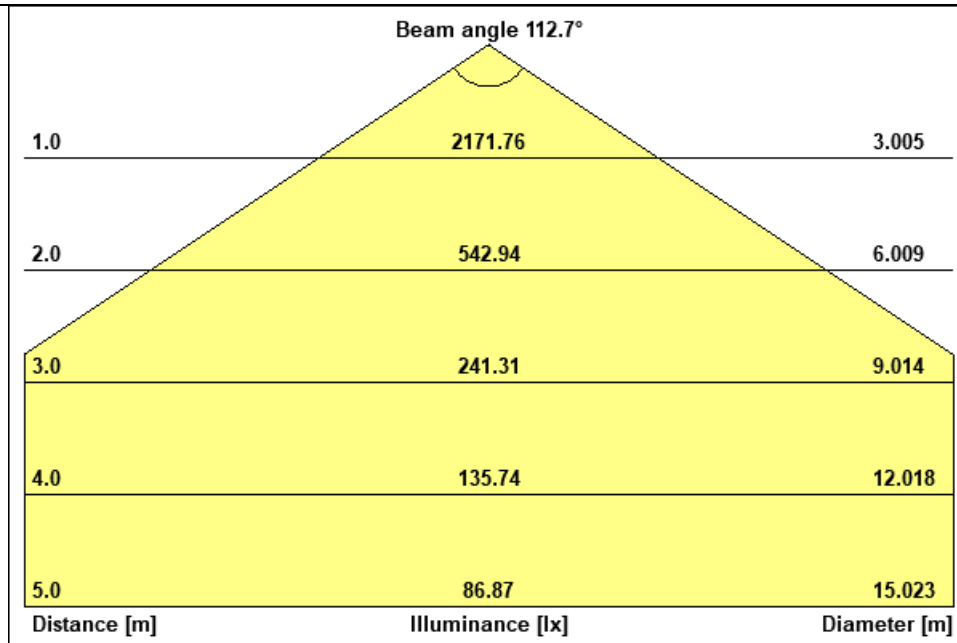


CIE 1931 diagram

x 0.3746
 y 0.3733
 Angular Colour Uniformity 0.0028
 Binning 4100K



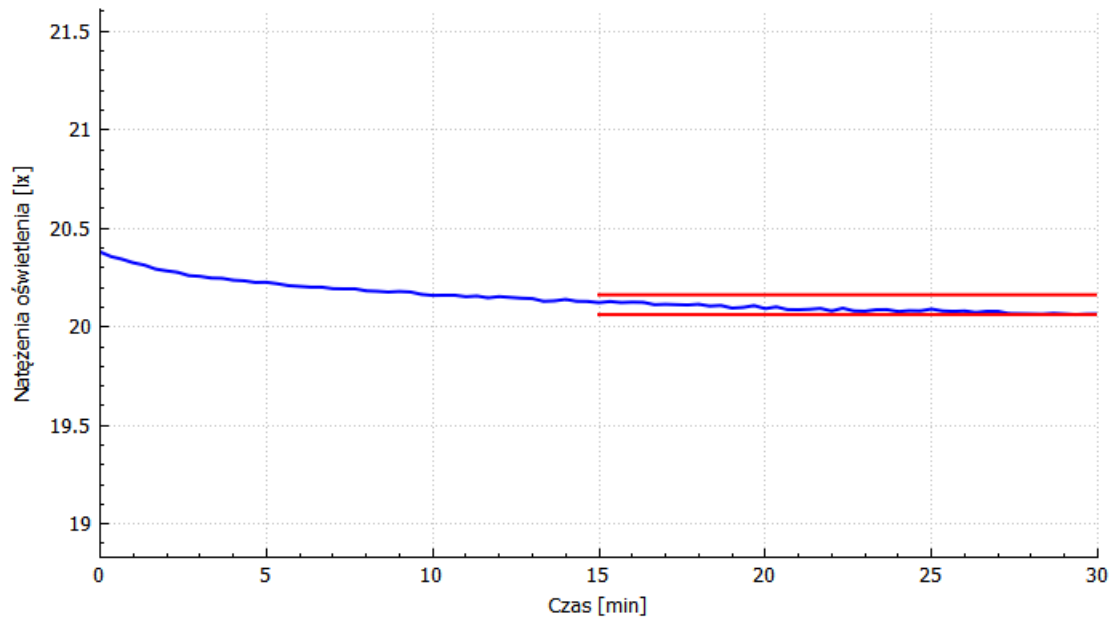
Beam cone



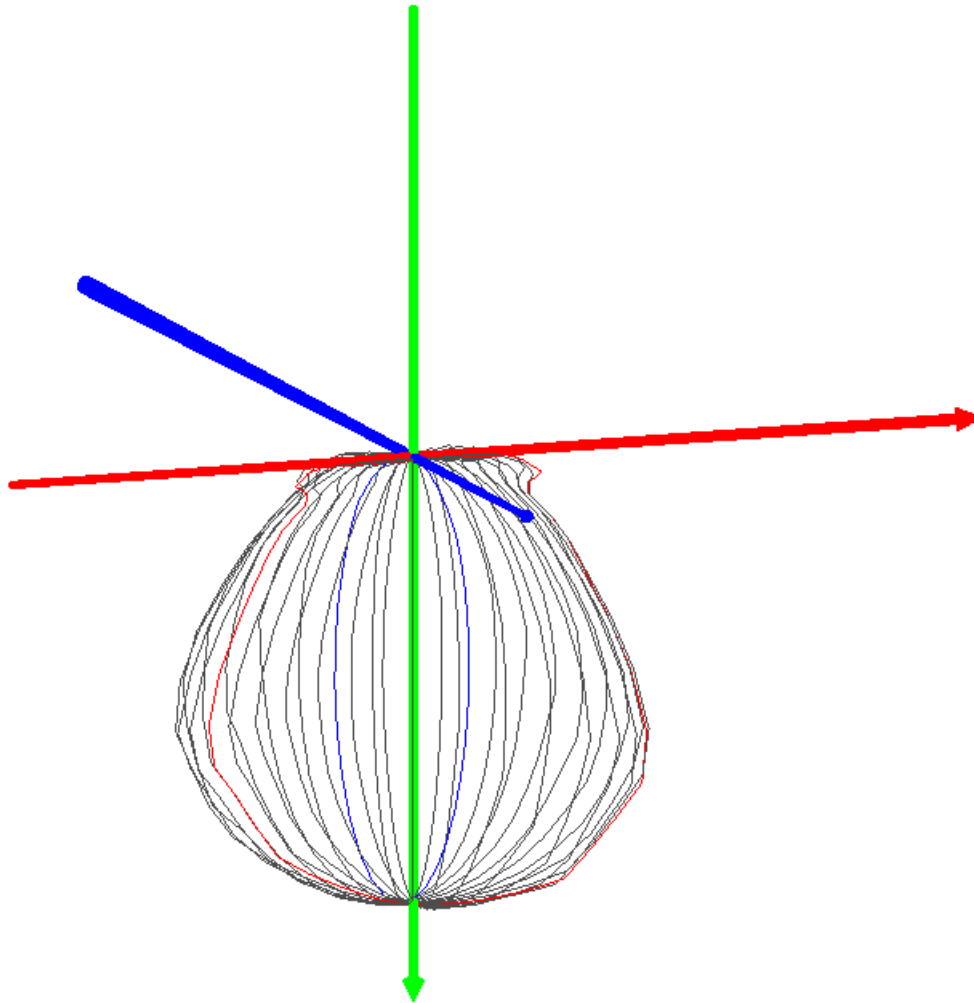
Distance [m]	Max illumince [lx]	Diameter [m]
1	2171.7627	3.005
2	542.9407	6.009
3	241.3070	9.014
4	135.7352	12.018
5	86.8705	15.023

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	112.7°	0.0°	-56.2°	56.5°
0-180°	110.2°	0.0°	-55.9°	54.4°
90-270°	109.4°	0.0°	-54.2°	55.2°

Stabilization



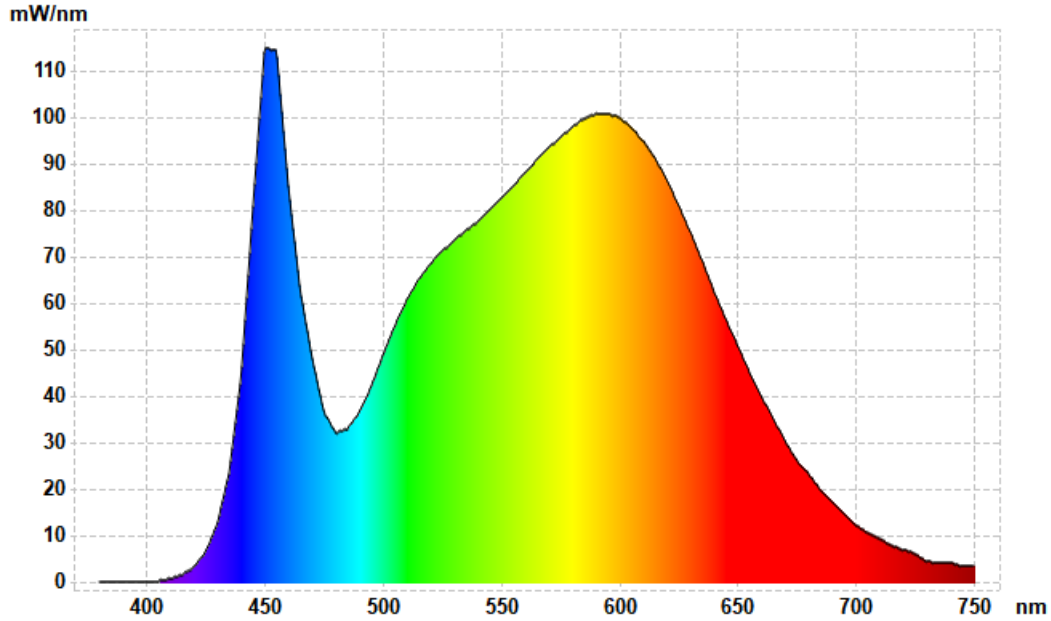
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0.3746	x	0.3807	CCT	4139
y	0.3733	y	0.3706	Chromaticity Error	0.003
Flux	6717.90 lm	u'	0.2278	Color Peak	450.92
		v'	0.4989	Color Peak Value	118.63
	5877.09	L	100.00	Color Dominant	578.5
u'	0.2227	a	13.54	Luminous Intensity	0.00
v'	0.4992	b	28.96	Purity	0.244
L	100.00	X	6424.62	Radiometric	17.8364
a	9.15	Y	6254.44	PAR	-
b	29.43	Z	4197.99	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	83.3	Ra	83.3	Mivis	1.9
R1	81.8	R8	65.1	Miuv	4.1
R2	90.0	R9	9.7	Binning	
R3	95.0	R10	75.5	Binning	4100K
R4	81.5	R11	80.2	Brightness	
R5	81.5	R12	59.6		
R6	85.3	R13	84.0		
R7	86.1	R14	97.5		