

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *E14 5W 400lm 2700K R39*
Item No: *245244*
Serial No.: *32208*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LEDline®*
Report number: *B522*
LuminaireName: *E14 5W 400lm 2700K R39*
LuminaireNumber: *245244*
FileName: *B522_245244_32208_G_20190522_R_O*
Date: *2019-05-22*

Dimensions of luminaire

Length: 39 mm
Width: 0 mm
Height: 68 mm

Dimensions of luminous area

Length: 39 mm
Width: 0 mm
C0-plane 7 mm
C90-plane 7 mm
C180-plane 7 mm
C270-plane 7 mm

Lamps:

Number of lamps: 1
 Type of lamps: 0
 Total luminous flux: 392,44 lm
 Color temperatur: 2694 K
 Color rendering index: 82,21
 Wattage including ballast: 4,82 W

Utilization factors:

k = 0.60 0,227
 k = 0.80 0,302
 k = 1.00 0,368
 k = 1.20 0,434
 k = 1.50 0,487
 k = 2.00 0,567
 k = 2.50 0,615
 k = 3.00 0,652
 k = 4.00 0,704
 k = 5.00 0,737

Electrical parameters

U = 230,055 V
I = 0,042 A
P = 4,816 W
 Power factor = 0,499

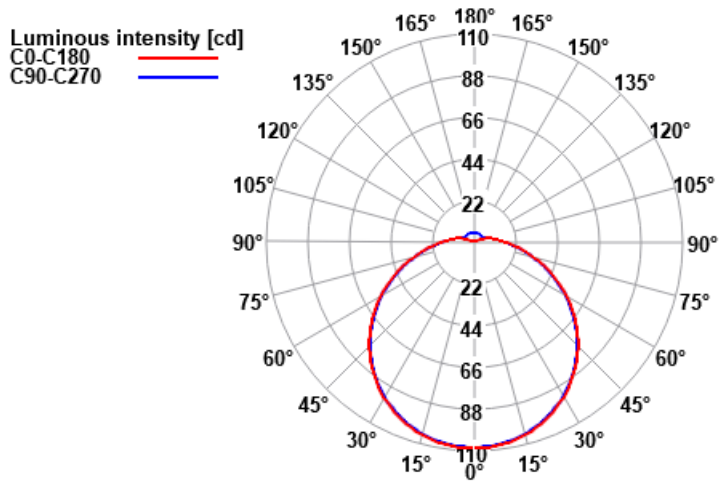
 Power apparent = 0,000 VA
 Power Reactive = 0,000 var
 Frequency Voltage = 0,000 Hz
 THD = 0,000 %

Temperature = 23.1 C

Goniometric measurement results

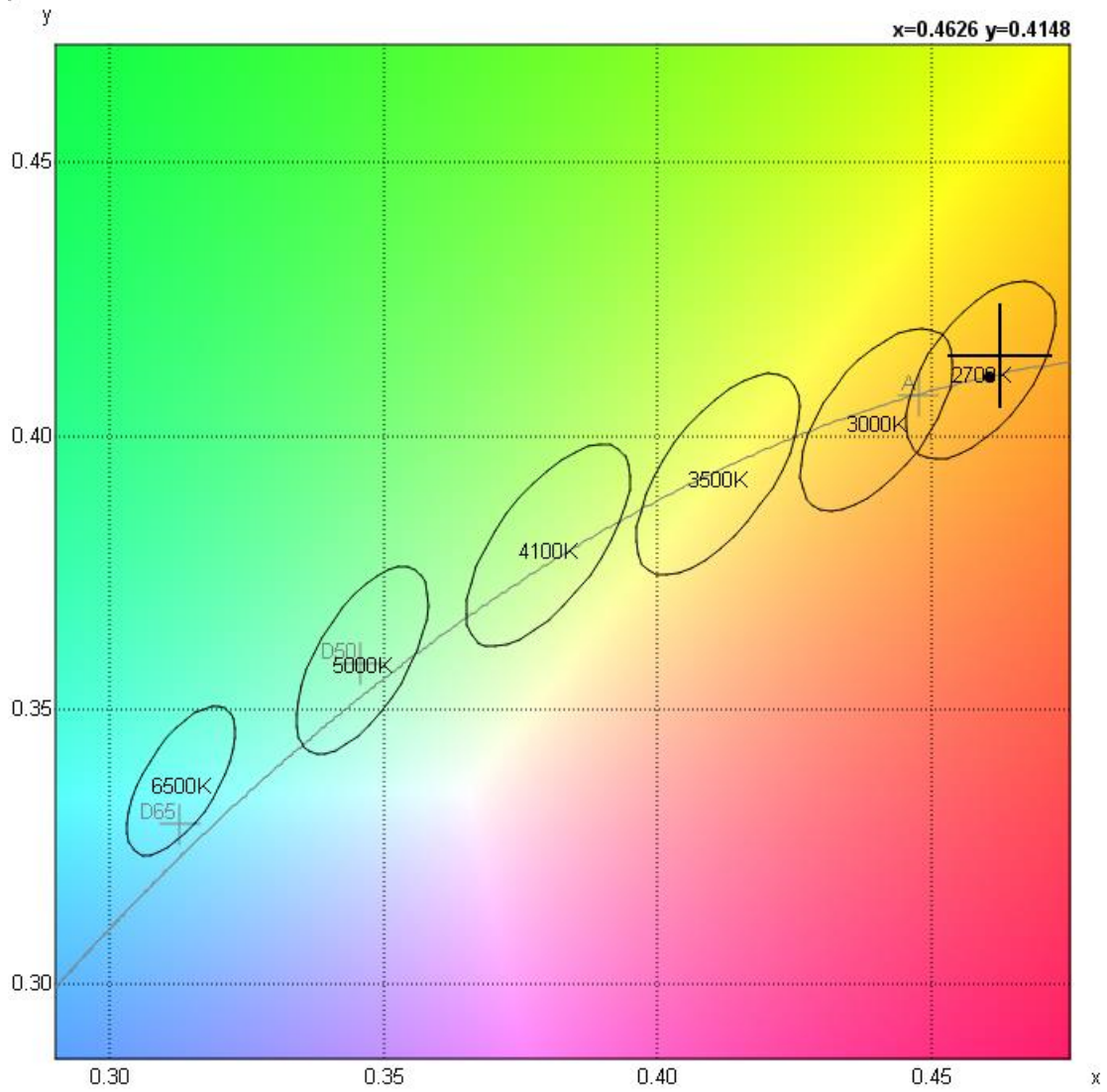
Total flux (utilized luminaire flux)	<i>392,44 lm</i>
Flux in lower hemisphere	<i>92,68 %</i>
Flux in upper hemisphere	<i>7,32 %</i>
Maximum luminous intensity	<i>108,92 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>81,42 lm/W</i>

Light intensity distribution diagram

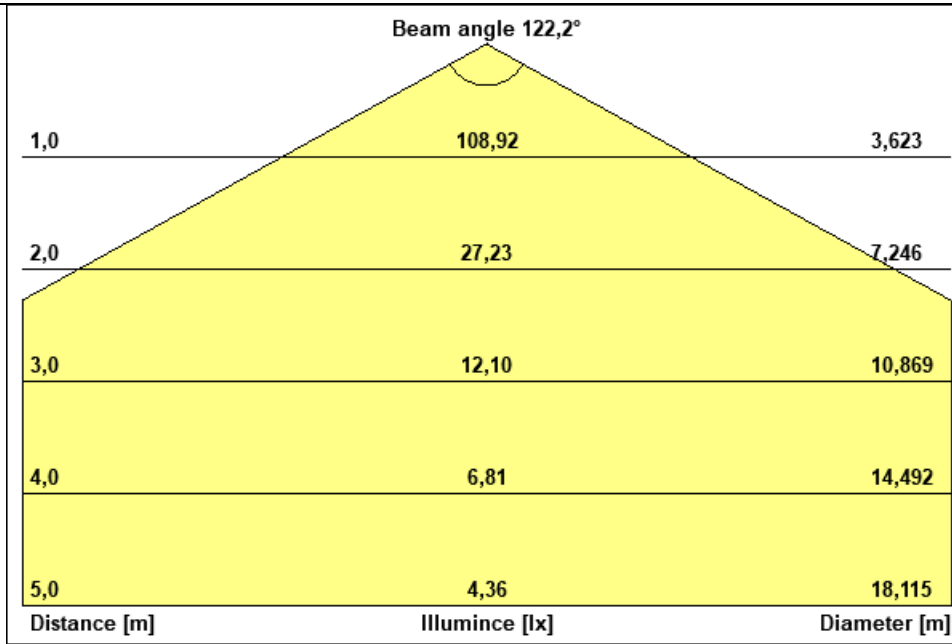


CIE 1931 diagram

x 0,4626
 y 0,4148
 Angular Colour Uniformity 0,0000
 Binning 2700K



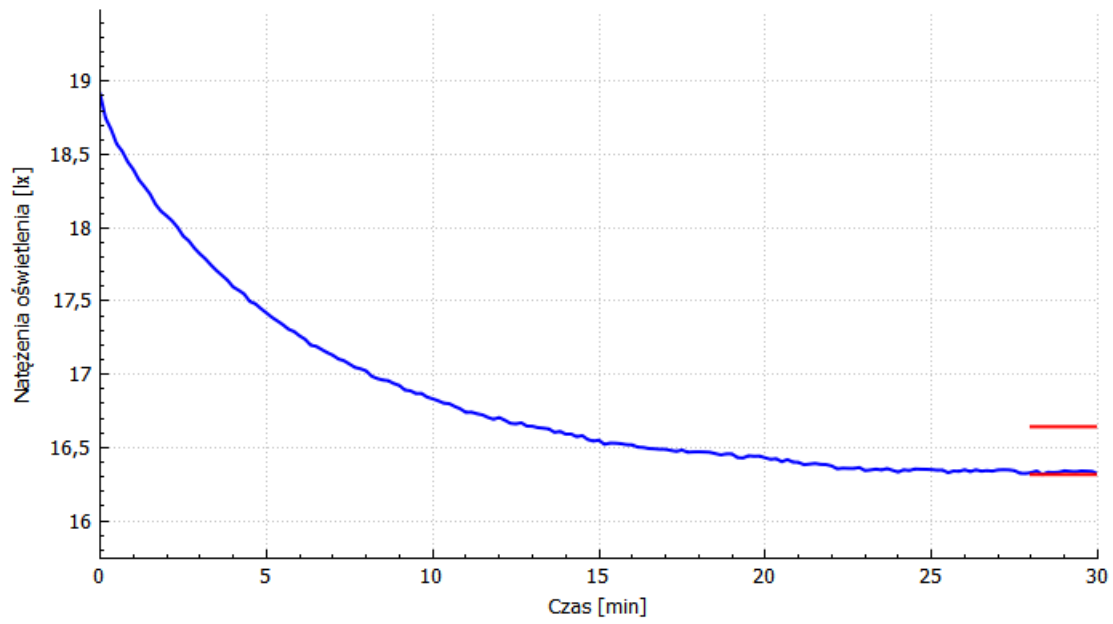
Beam cone



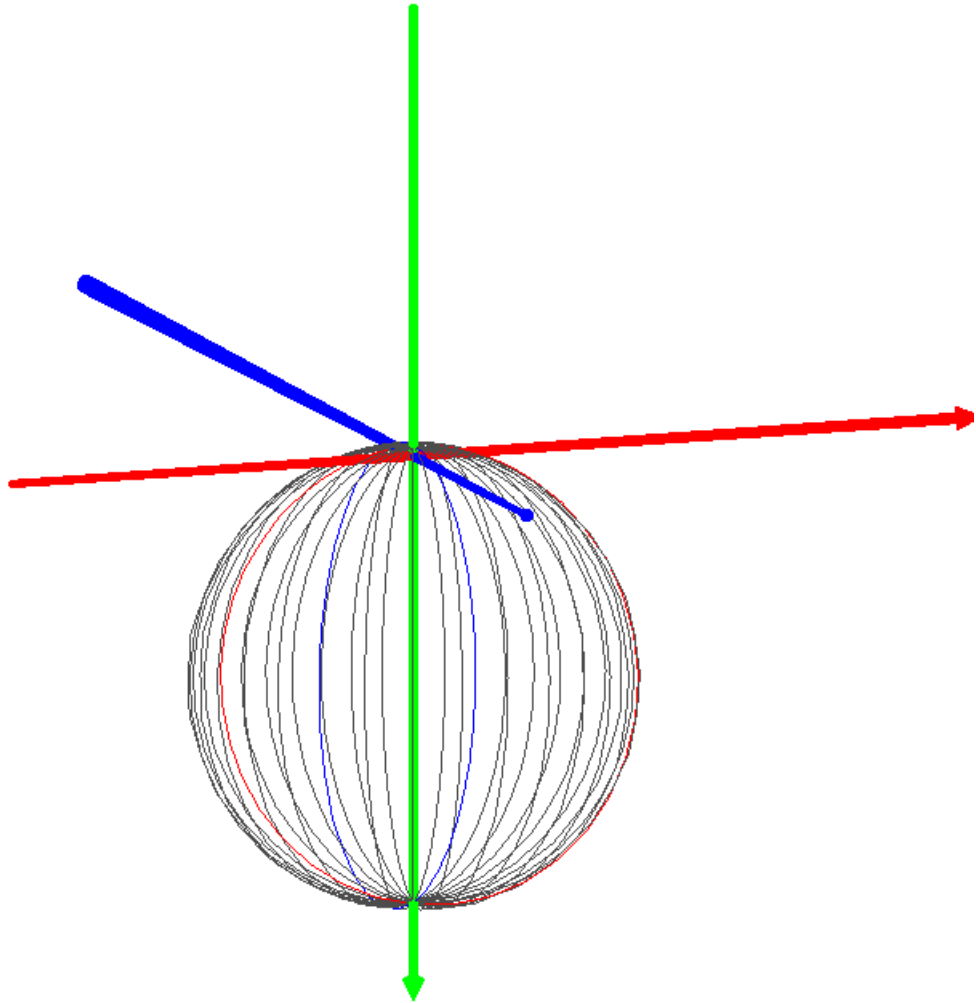
Distance [m]	Max illuminance [lx]	Diameter [m]
1	108,9217	3,623
2	27,2304	7,246
3	12,1024	10,869
4	6,8076	14,492
5	4,3569	18,115

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	122,2°	5,0°	-61,1°	61,1°
0-180°	122,6°	5,0°	-61,3°	61,3°
90-270°	122,0°	5,0°	-61,0°	61,0°




Stabilization



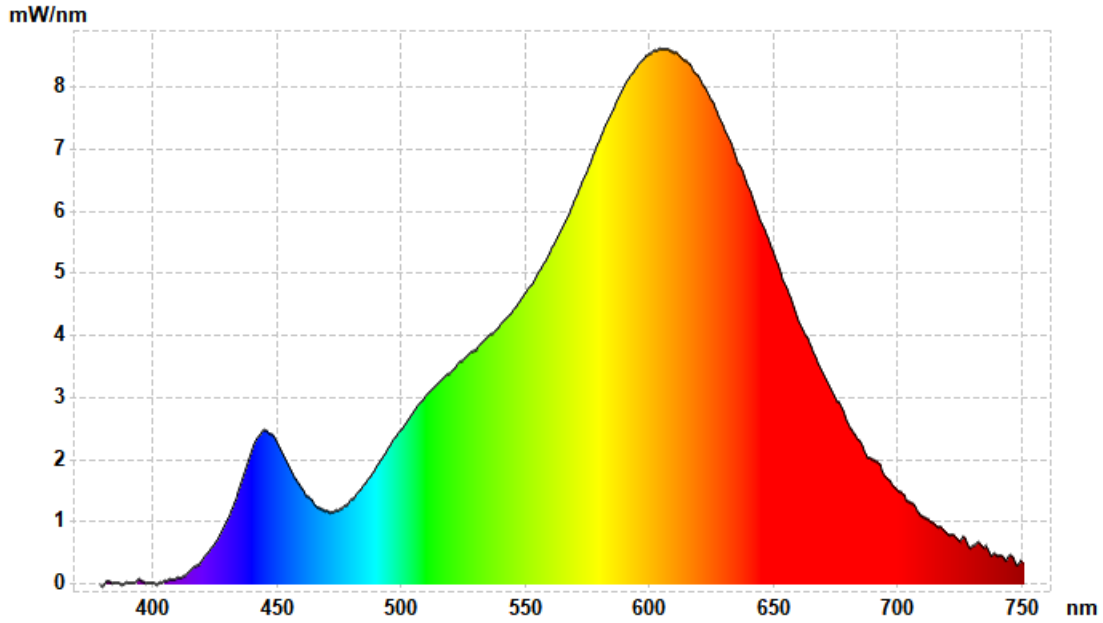
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,4626	x	0,4692	CCT	2694
y	0,4148	y	0,4098	Chromaticity Error	0,003
Flux	392,44 lm	u'	0,2689	Color Peak	607,67
		v'	0,5285	Color Peak Value	8,61
		L	100,00	Color Dominant	583,8
u'	0,2624	a	32,47	Luminous Intensity	0,00
v'	0,5293	b	69,91	Purity	
L	100,00	X	470,16	Radiometric	1,2064
a	27,37	Y	410,60	PAR	-
b	70,49	Z	121,25	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	82,2	Ra	82,2	Mivis	2,0
R1	80,2	R8	56,8	Miuv	4,4
R2	90,6	R9	5,2	Binning	
R3	96,5	R10	79,6	Binning	2700K
R4	80,8	R11	80,7	Brightness	
R5	80,7	R12	78,0		
R6	90,0	R13	82,4		
R7	82,1	R14	98,6		