

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *EasyFix 18W 1650lm 4000K*
Item No: *248825*
Serial No.: *00702*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LEDline®*
Report number: *B345*
LuminaireName: *EasyFix 18W 1650lm 4000K Round*
LuminaireNumber: *248825*
FileName: *B345_248825_00702_G_20190325_R_P*
Date: *2019-03-21*

Dimensions of luminaire

Length: *215 mm*
Width: *0 mm*
Height: *13 mm*

Dimensions of luminous area

Length: *175 mm*
Width: *0 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: 1725,20 lm
 Color temperatur: 3969.33 K
 Color rendering index: 80,96
 Wattage including ballast: 18,67 W

Utilization factors:

k = 0.60 0,278
 k = 0.80 0,366
 k = 1.00 0,443
 k = 1.20 0,519
 k = 1.50 0,578
 k = 2.00 0,667
 k = 2.50 0,718
 k = 3.00 0,756
 k = 4.00 0,809
 k = 5.00 0,841

Electrical parameters

U = 230,080 V
I = 0,150 A
P = 18,671 W
 Power factor = 0,539

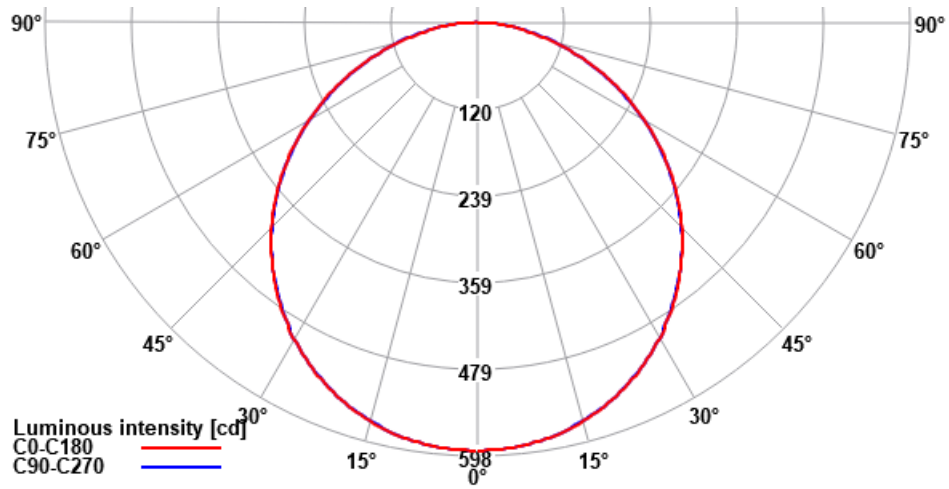
 Power apparent = 0,000 VA
 Power Reactive = 0,000 var
 Frequency Voltage = 0,000 Hz
 THD = 0,000 %

Temperature = 22.2 C

Goniometric measurement results

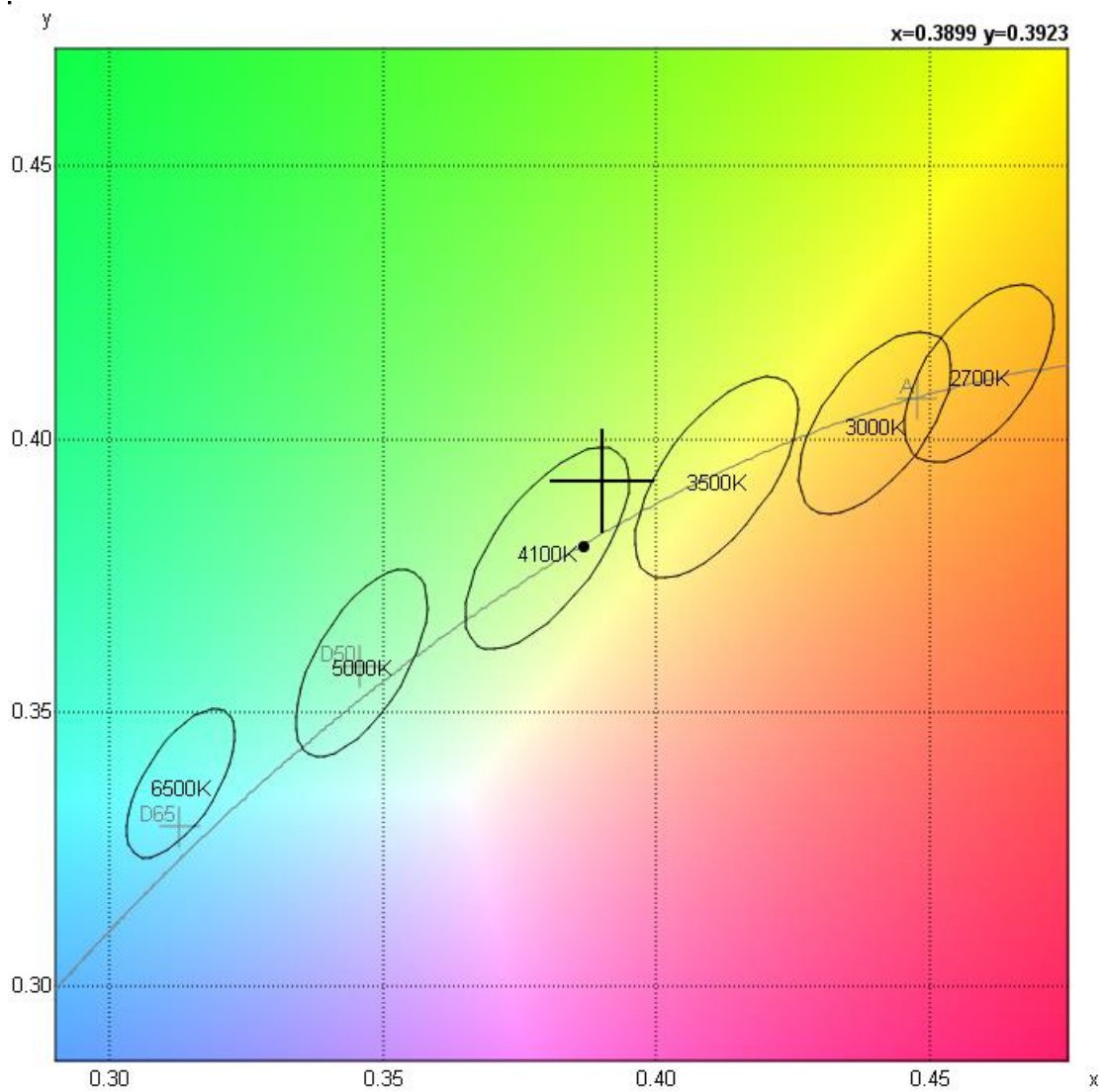
Total flux (utilized luminaire flux)	1725,20 lm
Flux in lower hemisphere	100,00 %
Flux in upper hemisphere	-0,00 %
Maximum luminous intensity	592,22 cd
Light output ratio (LOR)	100,00 %
Luminous efficacy	92,40 lm/W

Light intensity distribution diagram

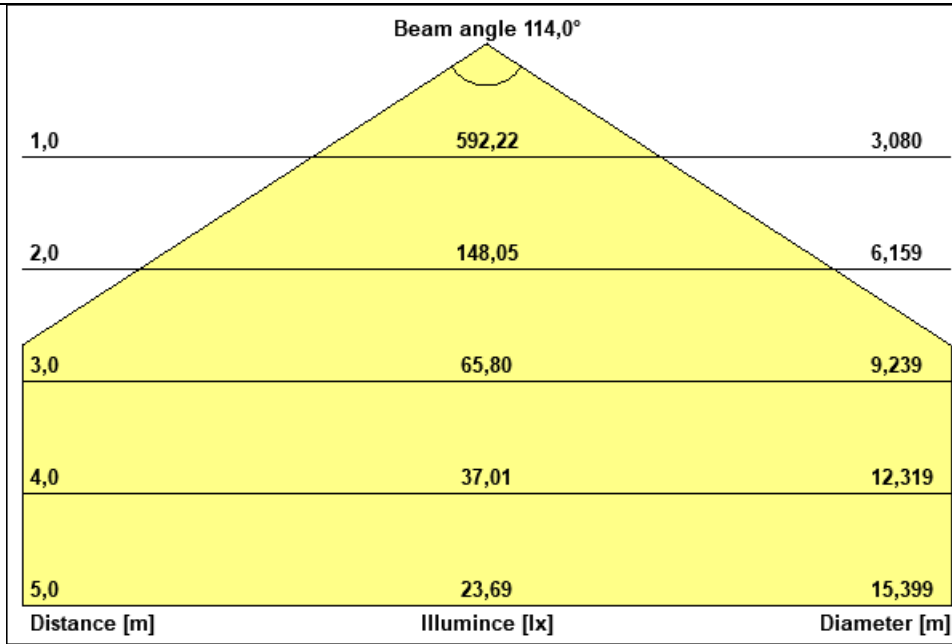


CIE 1931 diagram

x 0,3899
 y 0,3923
 Angular Colour Uniformity 0,0000
 Binning 4100K



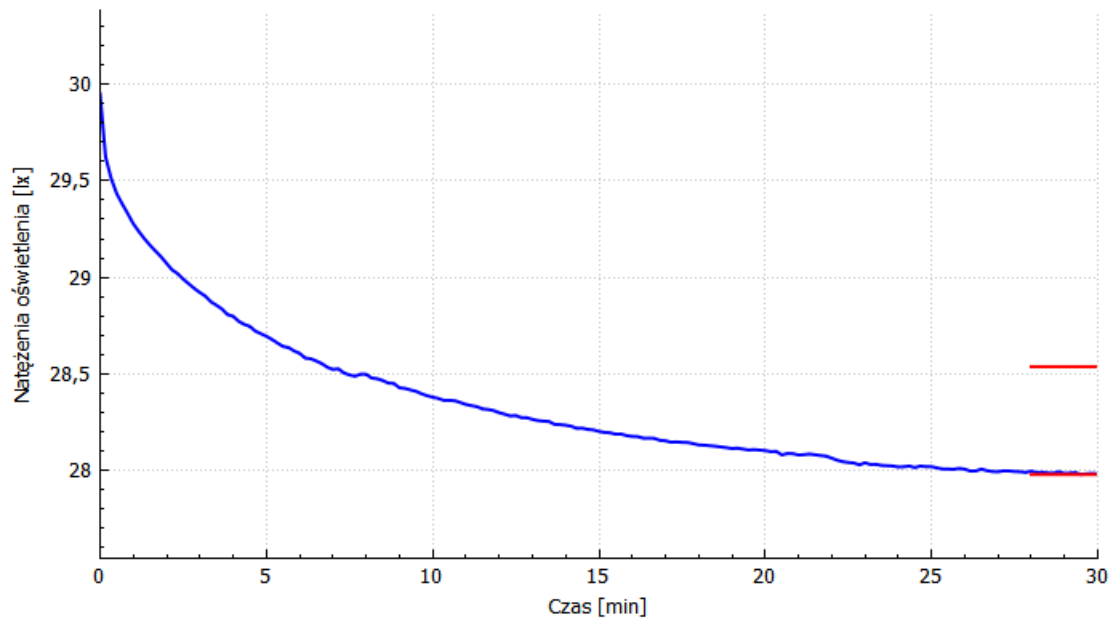
Beam cone



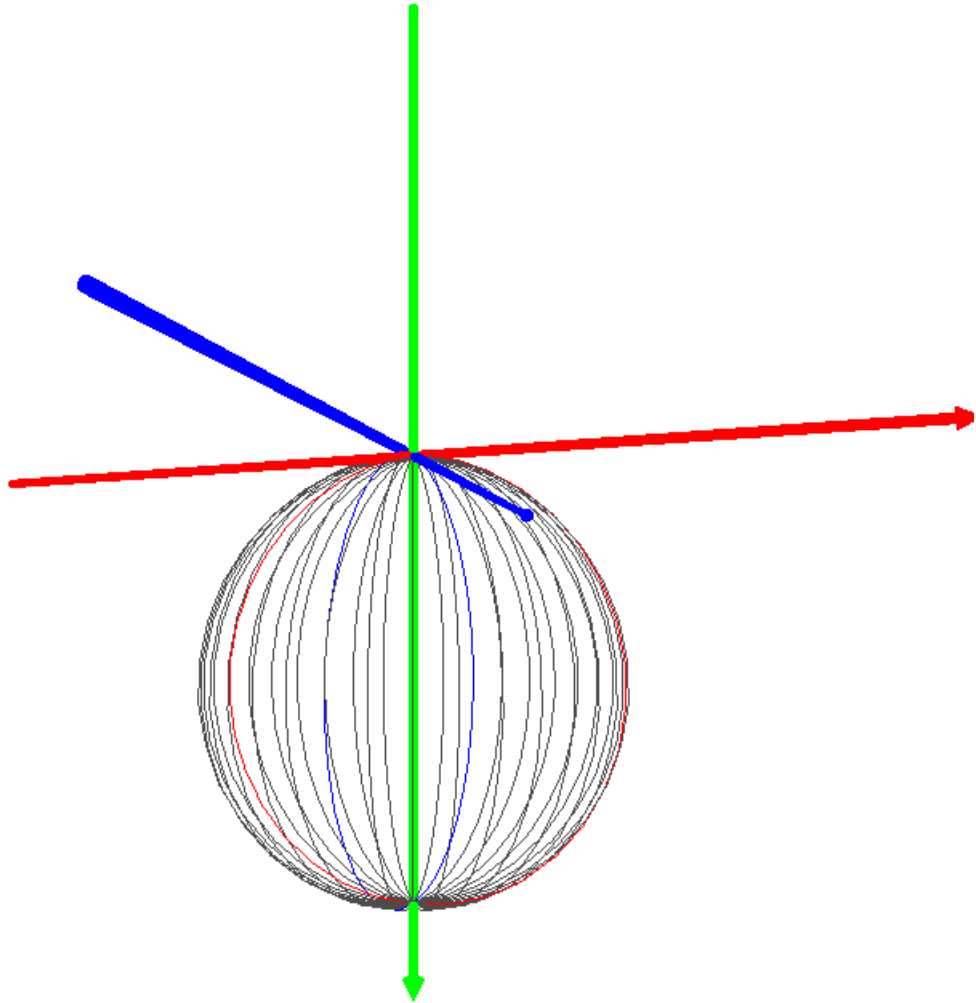
Distance [m]	Max illuminance [lx]	Diameter [m]
1	592,2180	3,080
2	148,0545	6,159
3	65,8020	9,239
4	37,0136	12,319
5	23,6887	15,399

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	114,0°	5,0°	-57,0°	57,0°
0-180°	114,0°	5,0°	-57,0°	57,0°
90-270°	113,7°	5,0°	-56,9°	56,9°

Stabilization



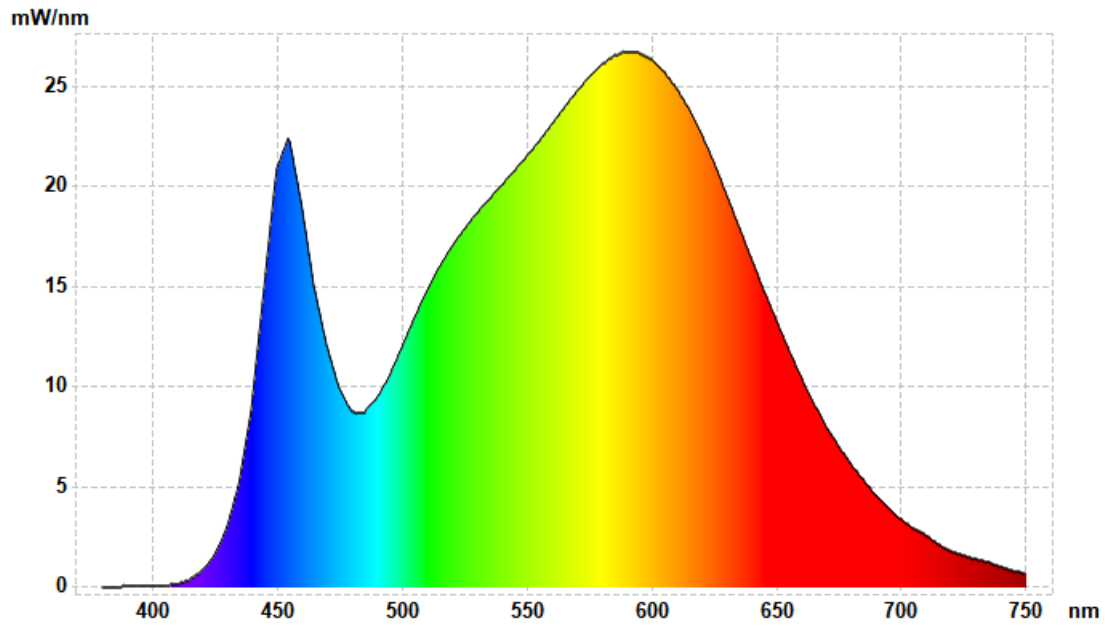
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3899	x	0,3974	CCT	3969
y	0,3923	y	0,3892	Chromaticity Error	0,005
Flux	1725,20 lm	u'	0,2312	Color Peak	592,28
		v'	0,5094	Color Peak Value	26,73
		L	100,00	Color Dominant	577,5
u'	0,2251	a	12,50	Luminous Intensity	0,00
v'	0,5097	b	40,10	Purity	
L	100,00	X	1650,24	Radiometric	4,4844
a	7,51	Y	1616,30	PAR	-
b	40,25	Z	886,42	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	81,0	Ra	81,0	Mivis	2,3
R1	78,2	R8	60,2	Miuv	4,0
R2	88,3	R9	-1,7	Binning	
R3	95,9	R10	72,3	Binning	4100K
R4	77,9	R11	75,7	Brightness	
R5	78,0	R12	57,8		
R6	83,9	R13	80,7		
R7	85,1	R14	97,9		