

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line*[®]
Model name: *MR16 3W 273lm 4000K 36st*
Item No: *247798*
Serial No.: *39510*
Made by: *Radosław Kośnik*

Eulumdat Fields

Dimensions of luminaire

Company: *LED line*[®]
Report number: *B278*
LuminaireName: *MR16 3W 273lm 4000K 36st*
LuminaireNumber: *247798*
FileName: *B278_247798_39510_G_20190221_R_O*
Date: *2019-02-21*

Dimensions of luminaire

Length: *50 mm*
Width: *0 mm*
Height: *50 mm*

Dimensions of luminous area

Length: *42 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: 284,22 lm
Color temperatur: 4138,23 K
Color rendering index: 82,05
Wattage including ballast: 2,91 W

Utilization factors:

k = 0.60	0,604
k = 0.80	0,663
k = 1.00	0,720
k = 1.20	0,768
k = 1.50	0,803
k = 2.00	0,863
k = 2.50	0,881
k = 3.00	0,899
k = 4.00	0,925
k = 5.00	0,942

Electrical parameters

<i>U</i>	= 11,999 V
<i>I</i>	= 0,243 A
<i>P</i>	= 2,910 W
<i>Power factor</i>	= 0,000

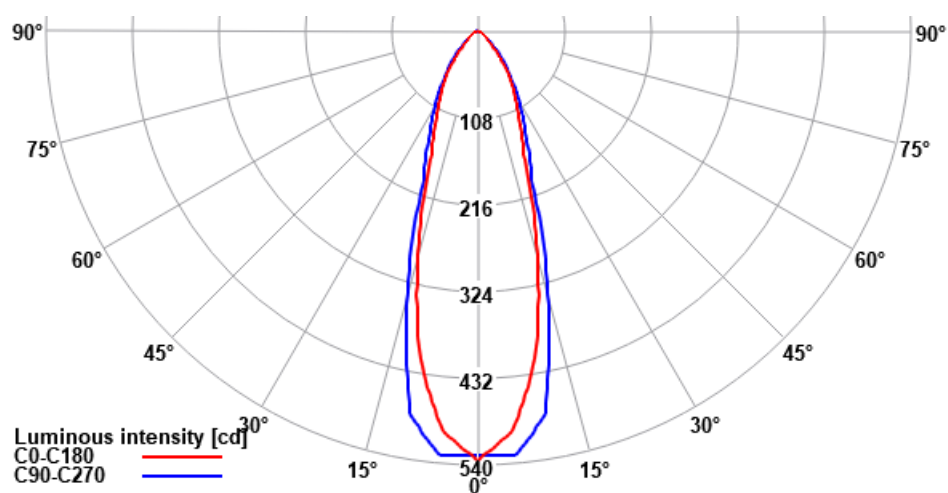
<i>Power apparent</i>	= 0,000 VA
<i>Power Reactive</i>	= 0,000 var
<i>Frequency Voltage</i>	= 0,000 Hz
<i>THD</i>	= 0,000 %

Temperature = 23 C

Goniometric measurement results

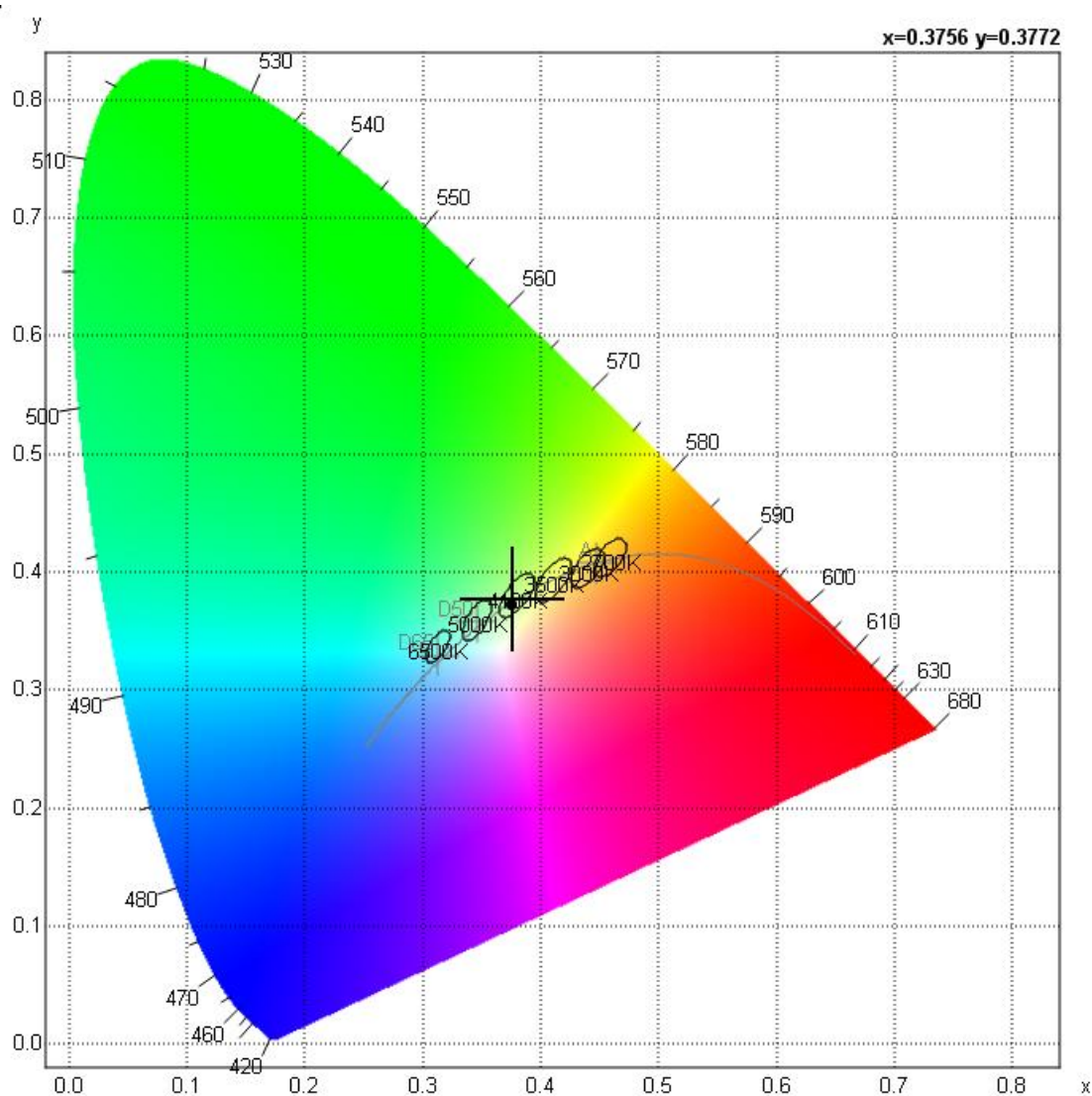
Total flux (utilized luminarie flux)	284,22 <i>lm</i>
Flux in lower hemisphere	100,00 %
Flux in upper hemisphere	-0,00 %
Maximum luminous intensity	534,95 <i>cd</i>
Light output ratio (LOR)	100,00 %
Luminous efficacy	97,67 <i>lm/W</i>

Light intensity distribution diagram

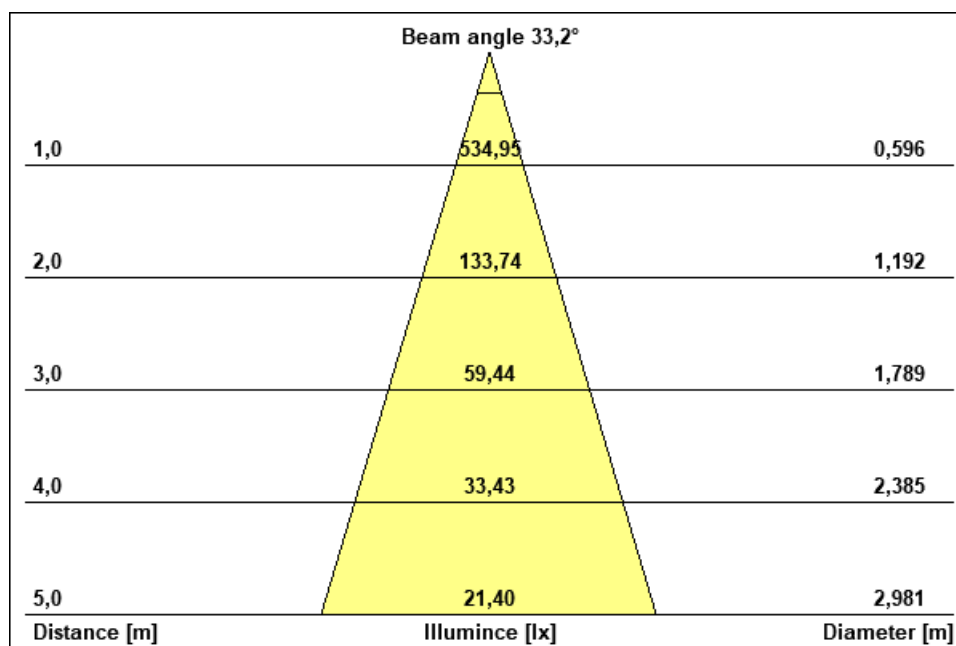


CIE 1931 diagram

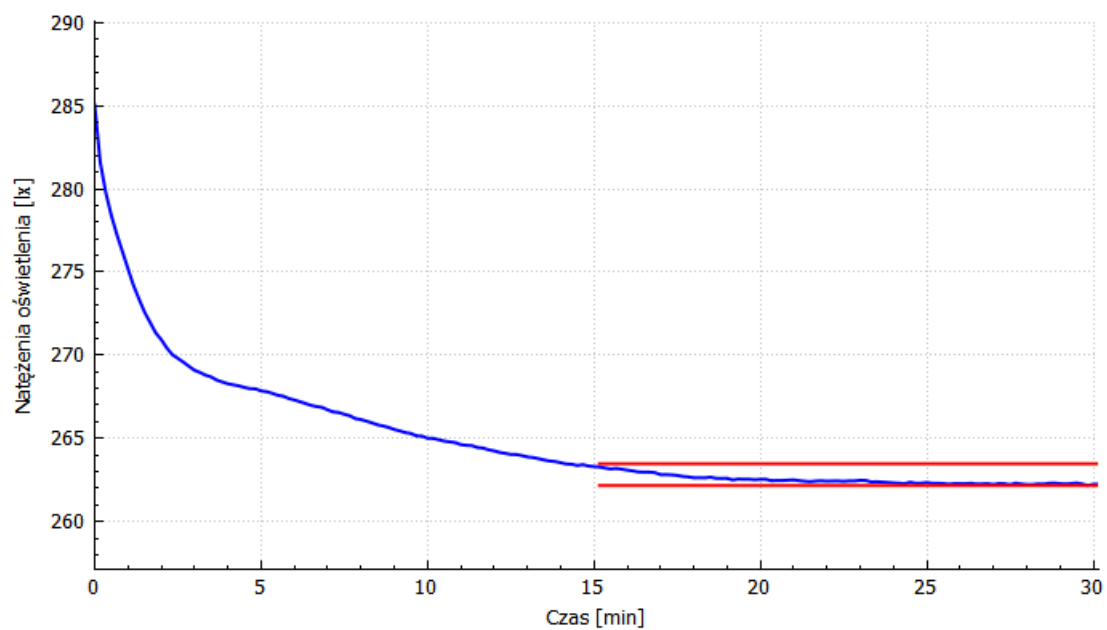
x 0,3756
y 0,3772
Angular Colour Uniformity 0,0000



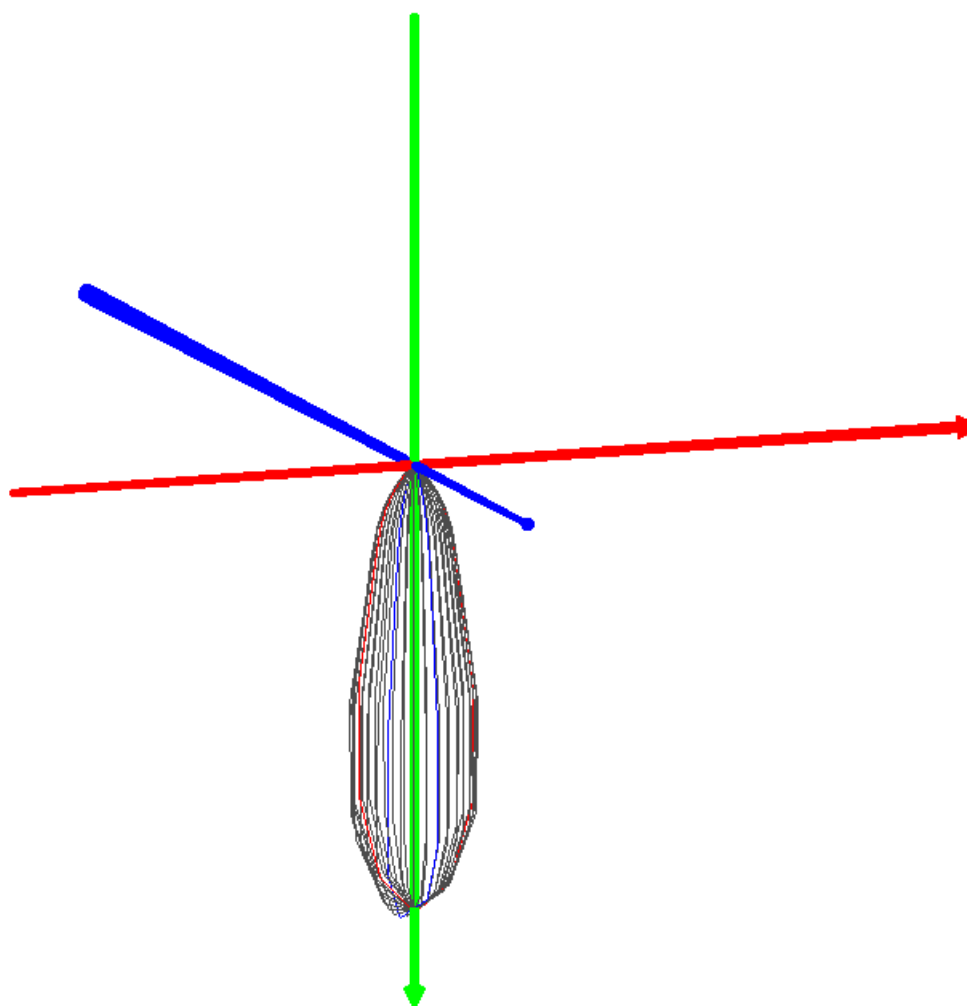
Beam cone



Stabilization



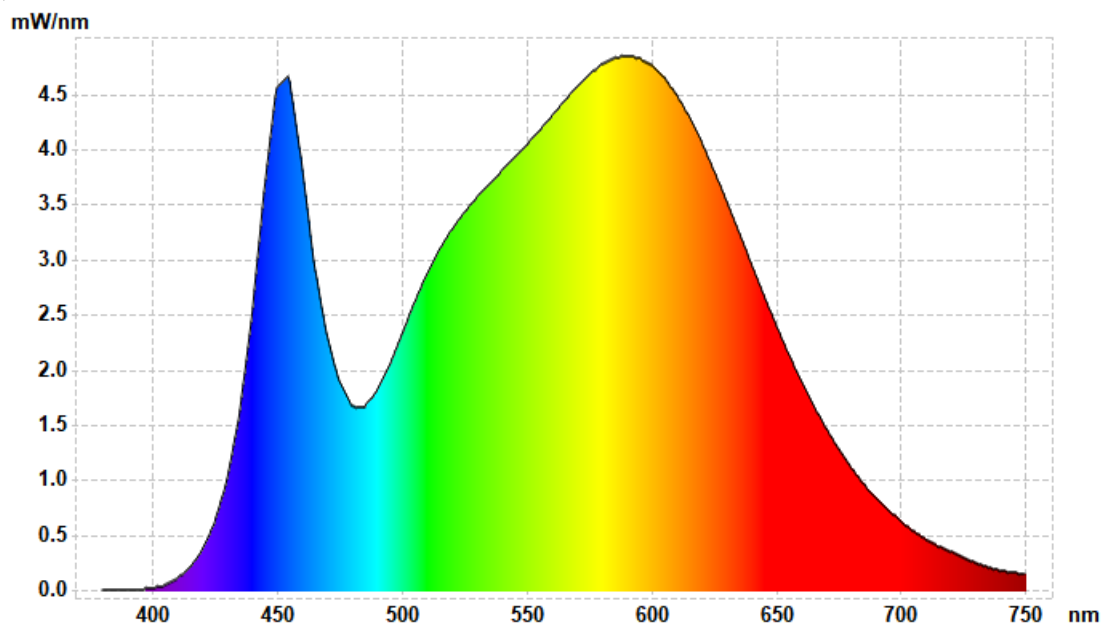
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3756	x	0,3820	CCT	4138
y	0,3772	y	0,3741	Chromaticity Error	0,003
Flux	284,22 lm	u'	0,2272	Color Peak	590,55
		v'	0,5006	Color Peak Value	4,85
		L	100,00	Color Dominant	577,6
u'	0,2217	a	12,52	Luminous Intensity	0,00
v'	0,5011	b	30,59	Purity	
L	100,00	X	308,56	Radiometric	0,8586
a	7,80	Y	302,18	PAR	-
b	31,15	Z	197,06	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	82,1	Ra	82,1	Mivis	1,8
R1	79,8	R8	63,4	Miuv	4,2
R2	88,6	R9	4,2	Binning	
R3	94,7	R10	72,6	Binning	4100K
R4	80,0	R11	78,0	Brightness	
R5	79,8	R12	60,7		
R6	83,9	R13	82,0		
R7	86,0	R14	97,2		