

GL GONIOSPECTROMETER  
**Lighting Research & Measurement Center**

**Report Wizard Sample Description Lines**

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Client name: *LED line®*  
Model name: *Moduł 50mm 5W 400lm 6500K DIMM*  
Item No: *470744*  
Serial No.: *65411*  
Made by: *Radosław Kośnik*

**Eulumdat Fields**

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Company: *LED line®*  
Report number: *B1421*  
LuminaireName: *Moduł 50mm 5W 400lm 6500K DIMM*  
LuminaireNumber: *470744*  
FileName: *B1421\_470744\_65411\_G\_20200630\_R\_O*  
Date: *2020-06-30*

**Dimensions of luminaire**

Length: *50 mm*  
Width: *0 mm*  
Height: *20 mm*

**Dimensions of luminous area**

Length: *50 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: 539,21 lm  
 Color temperatur: 6184.42 K  
 Color rendering index: 82,66  
 Wattage including ballast: 4,98 W

**Utilization factors:**

k = 0.60 0,283  
 k = 0.80 0,376  
 k = 1.00 0,456  
 k = 1.20 0,534  
 k = 1.50 0,595  
 k = 2.00 0,685  
 k = 2.50 0,736  
 k = 3.00 0,775  
 k = 4.00 0,826  
 k = 5.00 0,857

**Electrical parameters**

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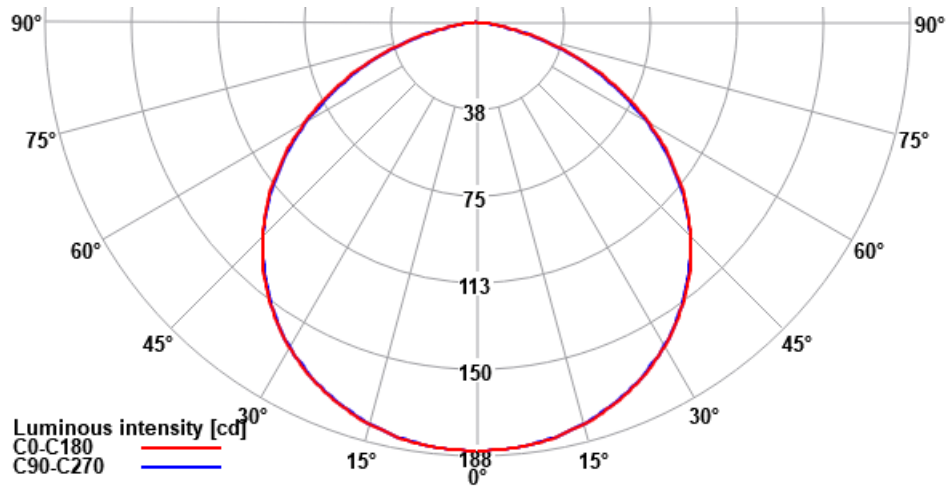
Power source: IT7321 300VA  
 U = 230,046 V  
 I = 0,028 A  
 P = 4,978 W  
 Power factor = 0,763

Temperature = 24,9 C

## Goniometric measurement results

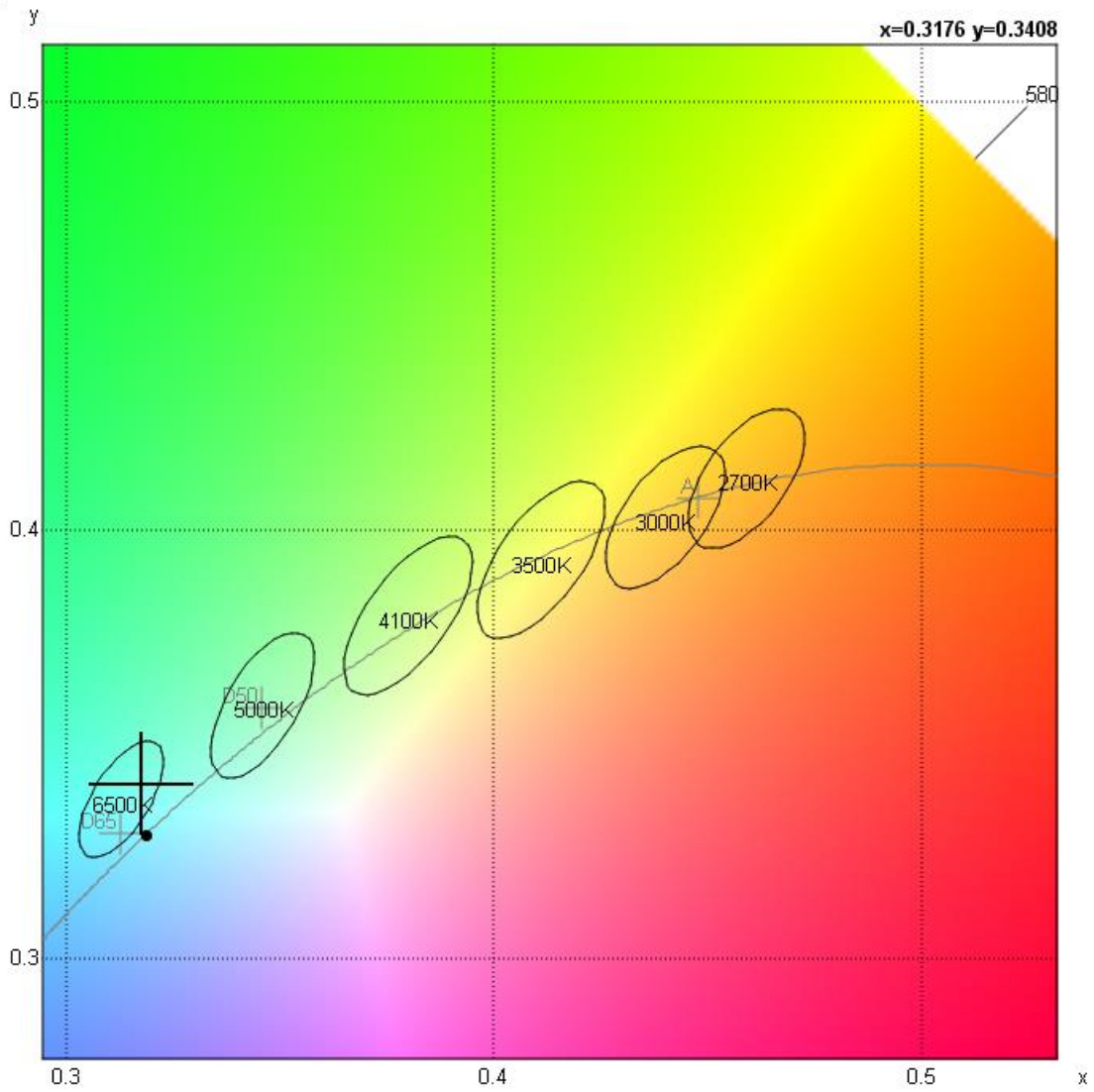
Total flux (utilized luminaire flux)	<i>539,21 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>0,00 %</i>
Maximum luminous intensity	<i>186,18 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>108,28 lm/W</i>

**Light intensity distribution diagram**

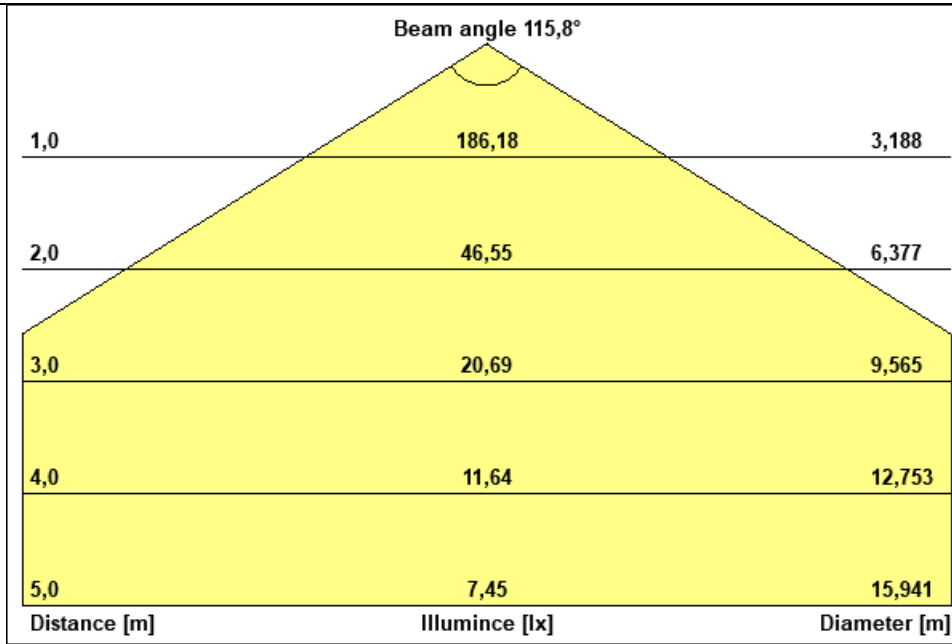


**CIE 1931 diagram**

x 0,3176  
 y 0,3408  
 Angular Colour Uniformity 0,0000  
 Binning 6500K



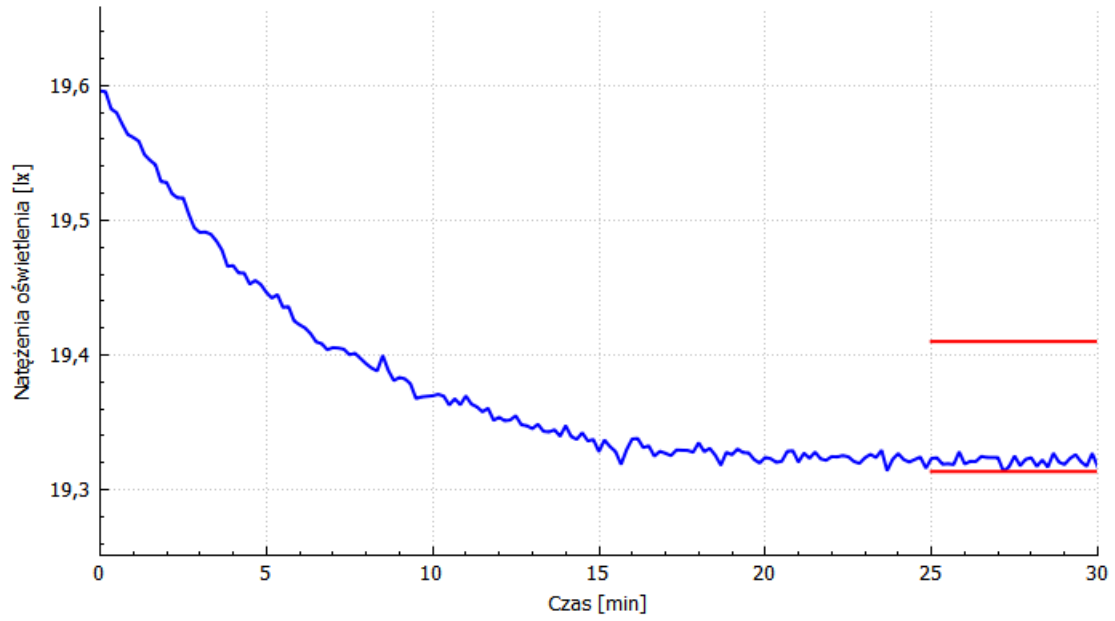
**Beam cone**



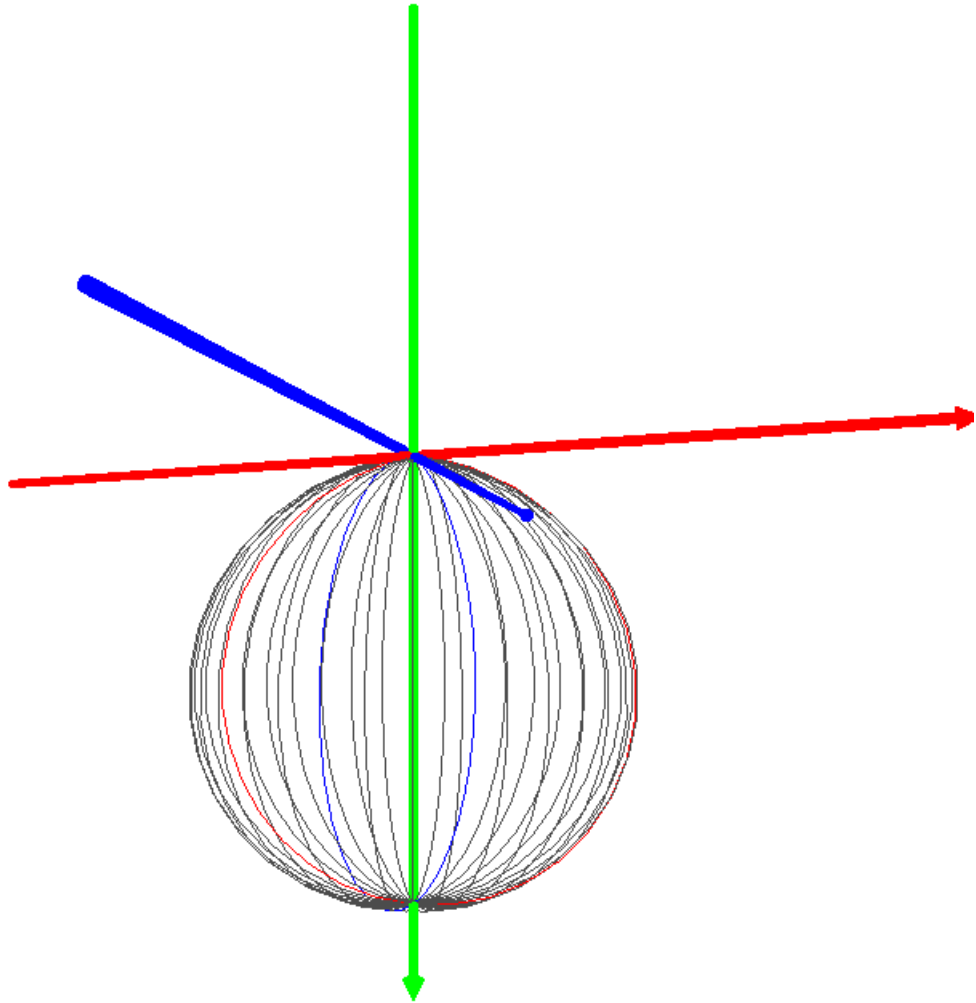
Distance [m]	Max illuminance [lx]	Diameter [m]
1	186,1814	3,188
2	46,5453	6,377
3	20,6868	9,565
4	11,6363	12,753
5	7,4473	15,941

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	115,8°	5,0°	-57,9°	57,9°
0-180°	115,9°	5,0°	-57,9°	57,9°
90-270°	115,2°	5,0°	-57,6°	57,6°

## Stabilization



### 3D Chart

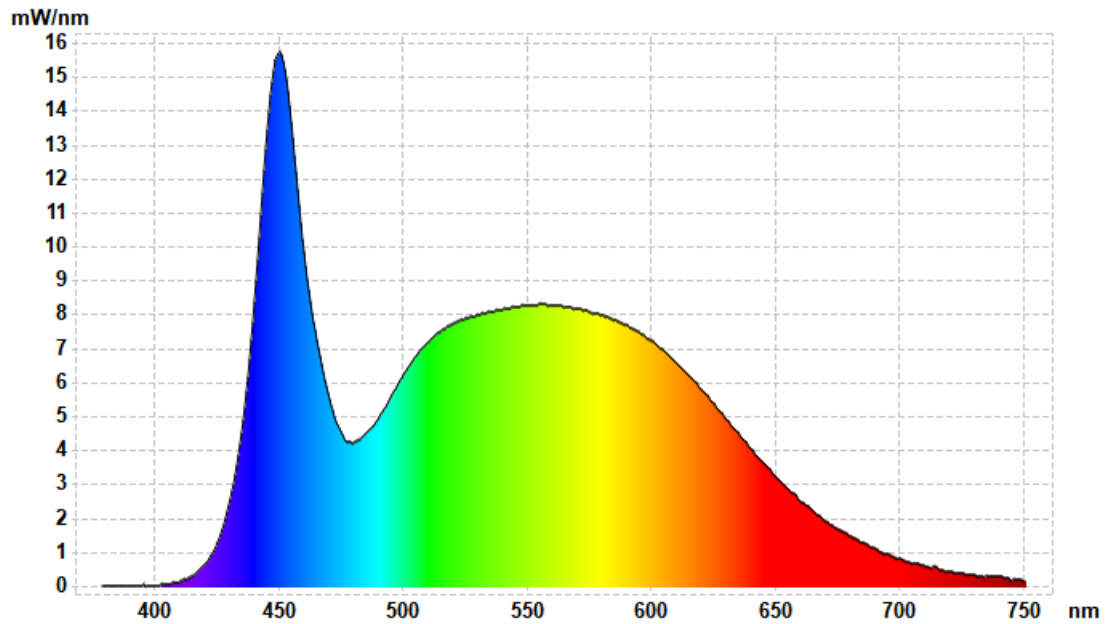


Legend

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



## Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3176	x	0,3231	CCT	6184
y	0,3408	y	0,3405	Chromaticity Error	0,002
Flux	539,21 lm	u'	0,2007	Color Peak	450,92
		v'	0,4759	Color Peak Value	15,75
		L	100,00	Color Dominant	497,9
u'	0,1969	a	0,12	Luminous Intensity	0,00
v'	0,4752	b	5,44	Purity	
L	100,00	X	553,28	Radiometric	1,7055
a	-3,26	Y	583,14	PAR	-
b	5,45	Z	576,03	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	82,7	Ra	82,7	Mivis	1,9
R1	80,0	R8	68,5	Miuv	5,7
R2	87,1	R9	3,1	Binning	
R3	92,0	R10	69,5	Binning	6500K
R4	82,1	R11	81,2	Brightness	
R5	81,0	R12	58,7		
R6	82,2	R13	81,9		
R7	88,4	R14	95,9		