

GL GONIOSPECTROMETER  
**Lighting Research & Measurement Center**

**Report Wizard Sample Description Lines**

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Client name: *LED line®*  
Model name: *Tri-Proof Linker 21W 2730lm 4000K*  
Item No: *470690*  
Serial No.: *07302*  
Made by: *Radosław Kośnik*

**Eulumdat Fields**

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Company: *LED line®*  
Report number: *B1597*  
LuminaireName: *Tri-Proof Linker 21W 2730lm 4000K*  
LuminaireNumber: *470690*  
FileName: *B1597\_470690\_07302\_G\_20200824\_R\_P*  
Date: *2020-08-24*

**Dimensions of luminaire**

Length: *590 mm*  
Width: *72 mm*  
Height: *61 mm*

**Dimensions of luminous area**

Length: *570 mm*  
Width: *61 mm*  
C0-plane *20 mm*  
C90-plane *20 mm*  
C180-plane *20 mm*  
C270-plane *20 mm*

**Lamps:**

Number of lamps: 1  
 Type of lamps: 0  
 Total luminous flux: 2695,90 lm  
 Color temperatur: 3999 K  
 Color rendering index: 83,32  
 Wattage including ballast: 20,30 W

**Utilization factors:**

k = 0.60 0,265  
 k = 0.80 0,351  
 k = 1.00 0,425  
 k = 1.20 0,499  
 k = 1.50 0,555  
 k = 2.00 0,640  
 k = 2.50 0,688  
 k = 3.00 0,724  
 k = 4.00 0,774  
 k = 5.00 0,805

**Electrical parameters**

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Power source: IT7321 300VA  
 U = 230,061 V  
 I = 0,173 A  
 P = 20,295 W  
 Power factor = 0,509

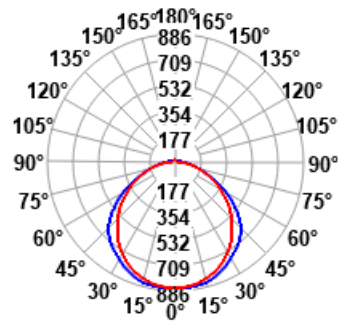
Temperature = 25.1 C

## Goniometric measurement results

Total flux (utilized luminaire flux)	<i>2695,90 lm</i>
Flux in lower hemisphere	<i>96,46 %</i>
Flux in upper hemisphere	<i>3,54 %</i>
Maximum luminous intensity	<i>879,40 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>132,80 lm/W</i>

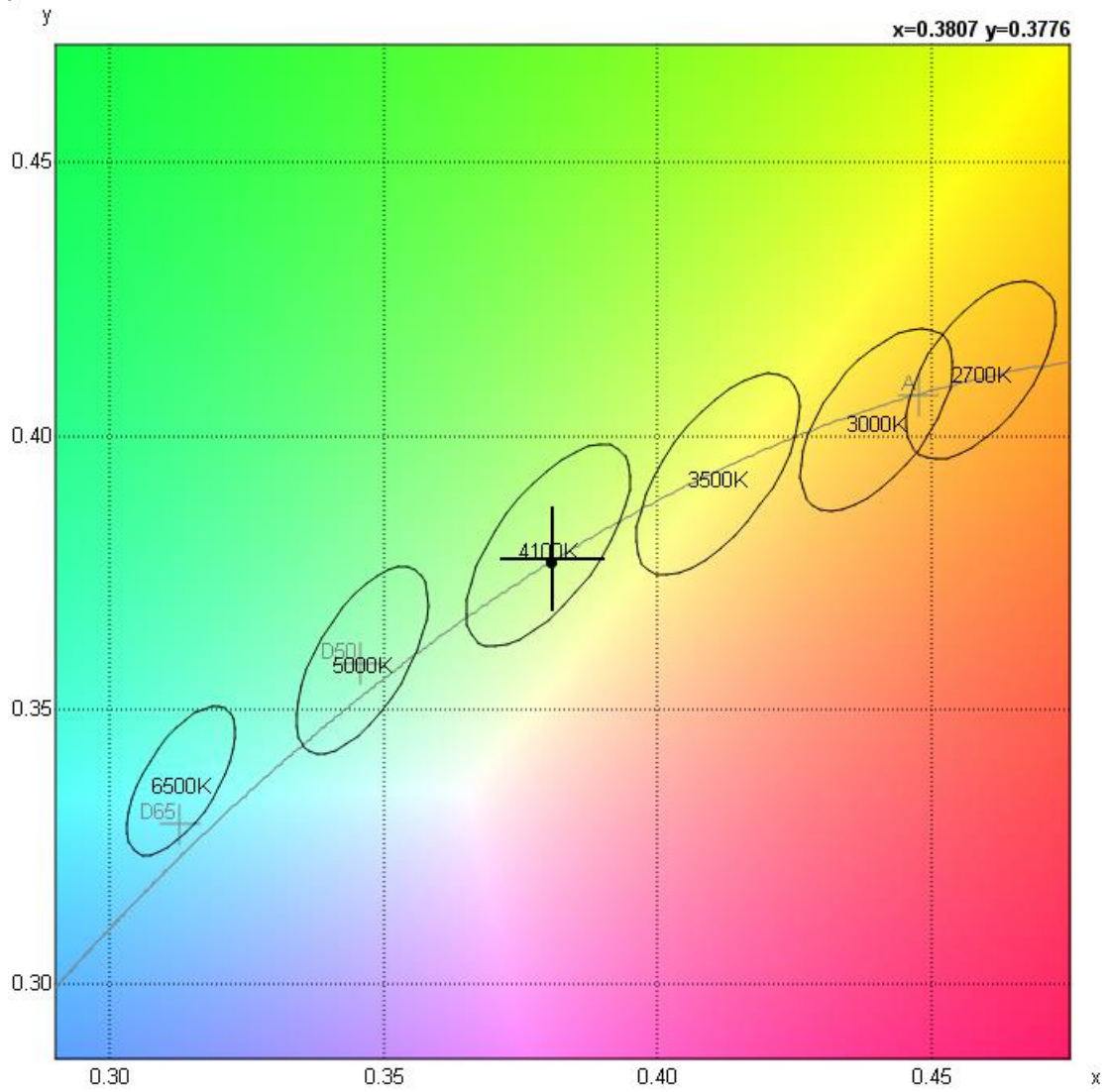
# Light intensity distribution diagram

Luminous intensity [cd]  
 C0-C180 —  
 C90-C270 —

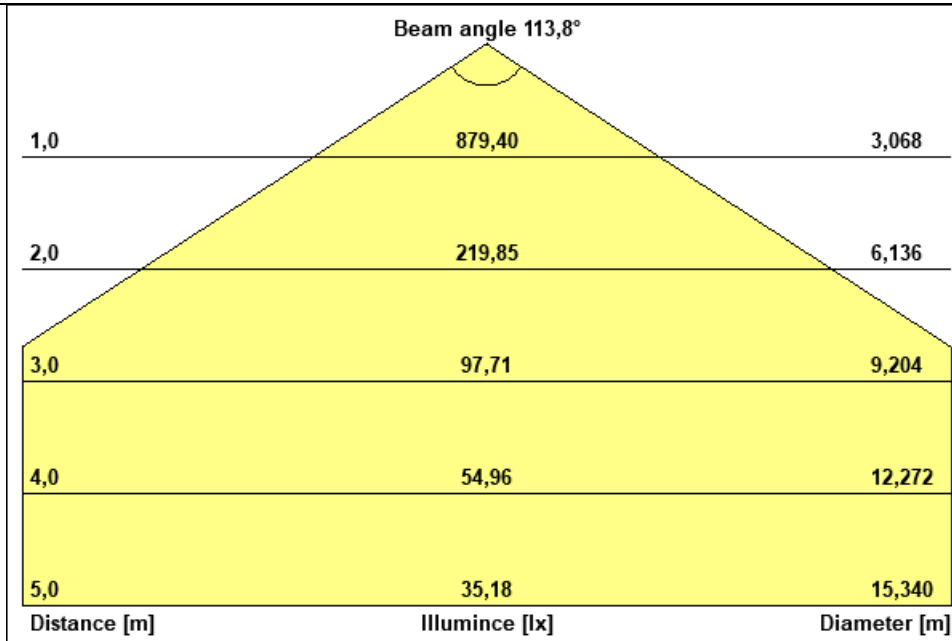


**CIE 1931 diagram**

x 0,3807  
 y 0,3776  
 Angular Colour Uniformity 0,0036  
 Binning 4100K



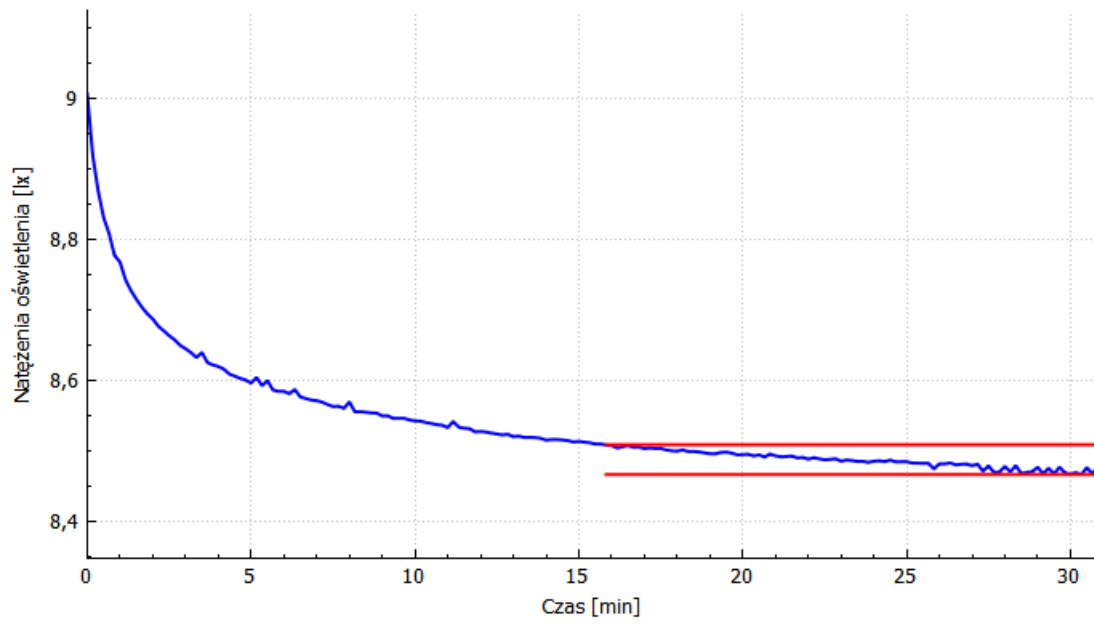
**Beam cone**



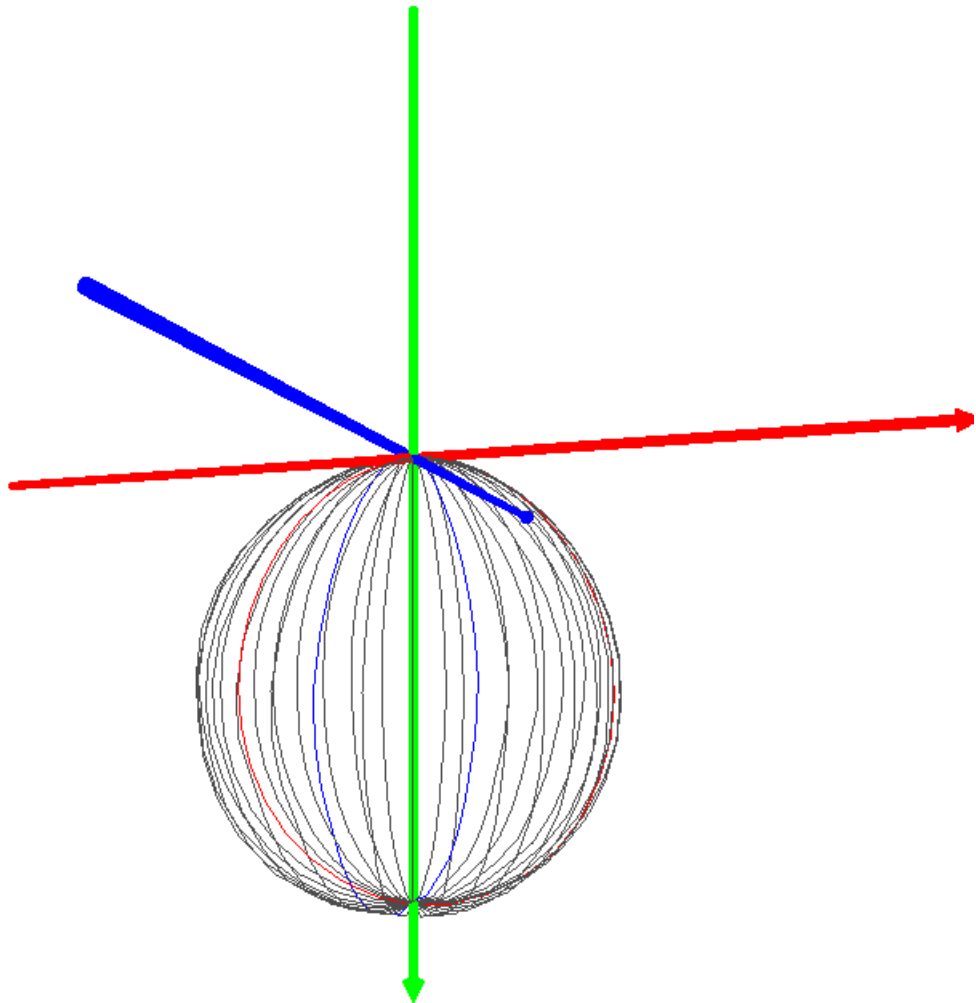
Distance [m]	Max illuminance [lx]	Diameter [m]
1	879,3972	3,068
2	219,8493	6,136
3	97,7108	9,204
4	54,9623	12,272
5	35,1759	15,340

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	113,8°	5,0°	-56,9°	56,9°
0-180°	108,3°	5,0°	-54,2°	54,2°
90-270°	115,4°	5,0°	-57,7°	57,7°

## Stabilization



### 3D Chart

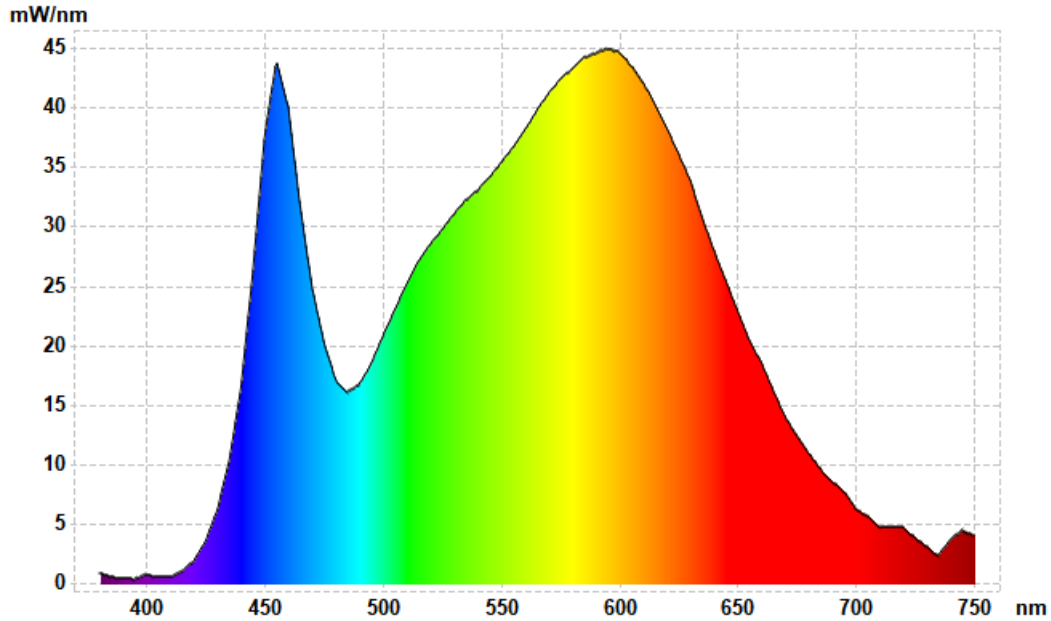


Legend

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



## Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3807	x	0,3871	CCT	3999
y	0,3776	y	0,3758	Chromaticity Error	0,002
Flux	2695,90 lm	u'	0,2298	Color Peak	594,00
		v'	0,5022	Color Peak Value	44,94
		L	100,00	Color Dominant	578,9
u'	0,2250	a	13,98	Luminous Intensity	0,00
v'	0,5020	b	32,45	Purity	
L	100,00	X	2811,76	Radiometric	7,8918
a	9,95	Y	2730,20	PAR	-
b	32,46	Z	1722,58	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	83,3	Ra	83,3	Mivis	2,2
R1	81,8	R8	63,8	Miuv	3,8
R2	91,4	R9	9,5	<b>Binning</b>	
R3	95,8	R10	78,8	Binning	4100K
R4	80,0	R11	78,3	Brightness	
R5	81,5	R12	62,9		
R6	87,3	R13	84,5		
R7	85,0	R14	98,3		