

GL GONIOSPECTROMETER  
**Lighting Research & Measurement Center**

**Report Wizard Sample Description Lines**

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Client name: *LED line®*  
Model name: *Taśma LED line® 300 SMD 12V 3528 2865-3025K*  
Item No: *240164*  
Serial No.: *01605*  
Made by: *Norbert Chrzanowski*

**Eulumdat Fields**

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Company: *LED line®*  
Report number: *B1734*  
LuminaireName: *Taśma LED line® 300 SMD3528 12V 2865-3025K*  
LuminaireNumber: *240164*  
FileName: *B1734\_240164\_01605\_G\_20201028\_N\_P*  
Date: *2019-03-06*

**Dimensions of luminaire**

Length: *1000 mm*  
Width: *8 mm*  
Height: *2 mm*

**Dimensions of luminous area**

Length: *1000 mm*  
Width: *8 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: 418,90 lm  
 Color temperatur: 2975 K  
 Color rendering index: 83  
 Wattage including ballast: 4,74 W

### Utilization factors:

k = 0.60	0,274
k = 0.80	0,363
k = 1.00	0,441
k = 1.20	0,517
k = 1.50	0,576
k = 2.00	0,666
k = 2.50	0,717
k = 3.00	0,756
k = 4.00	0,808
k = 5.00	0,841

### Electrical parameters

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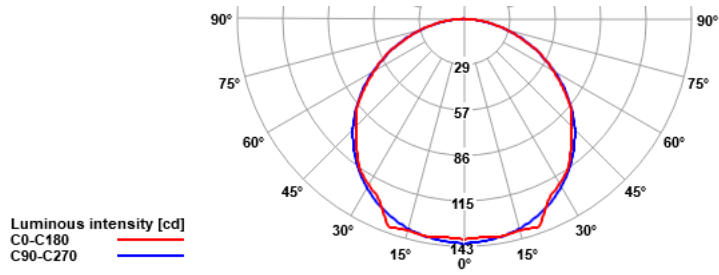
*Power source:* IT7321 300VA  
*U* = 12,000 V  
*I* = 0,395 A  
*P* = 4,74 W  
*Power factor* = 0,000

*Temperature* = 24,3 C

## Goniometric measurement results

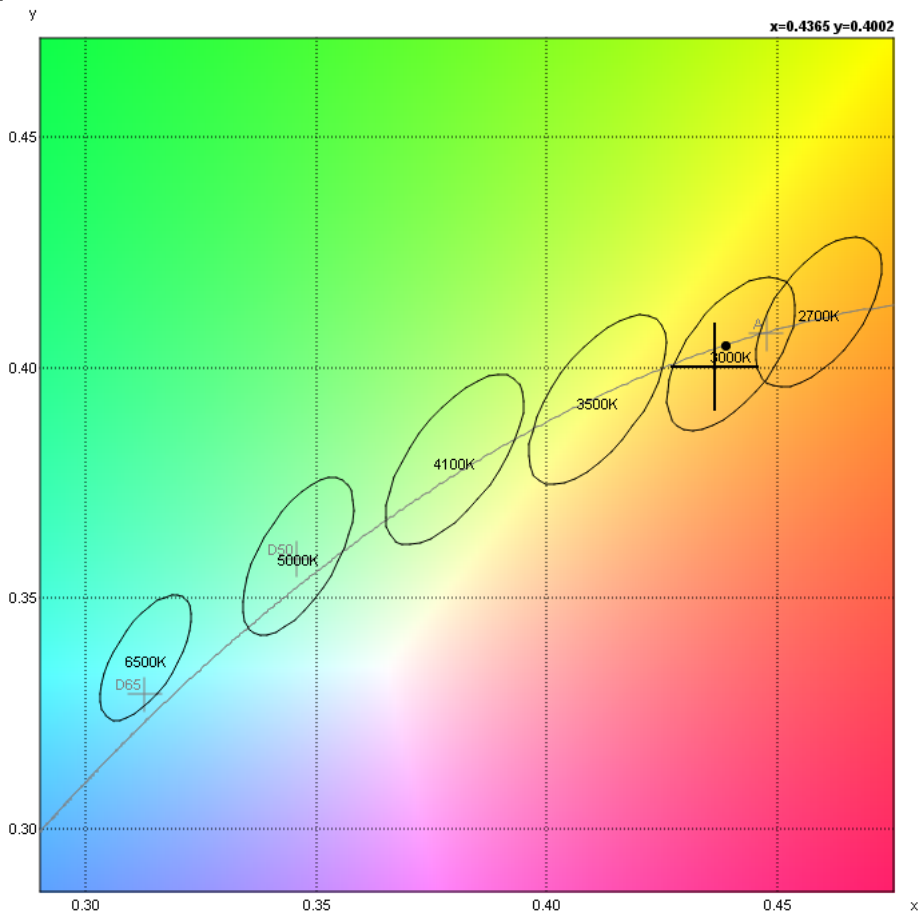
Total flux (utilized luminaire flux)	<i>418,90 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>0,00 %</i>
Maximum luminous intensity	<i>143,13 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>88,38 lm/W</i>

# Light intensity distribution diagram

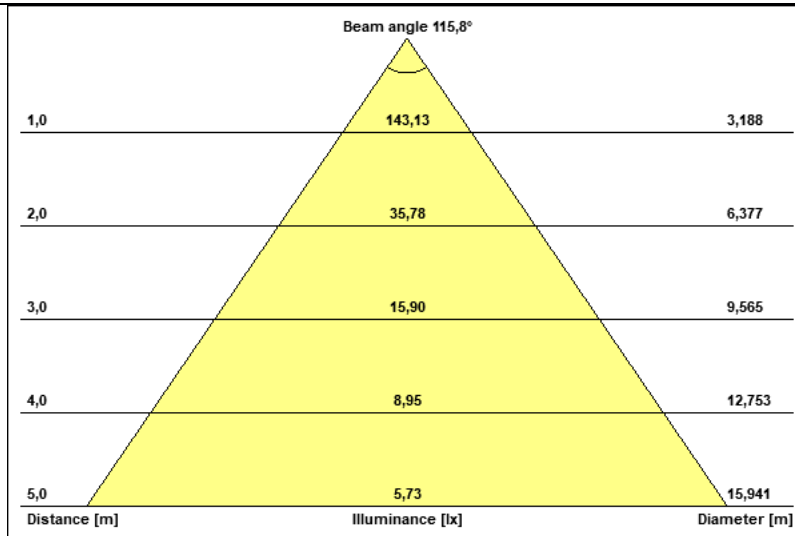


**CIE 1931 diagram**

x 0,4365  
 y 0,4002  
 Angular Colour Uniformity 0,0149  
 Binning 3000K



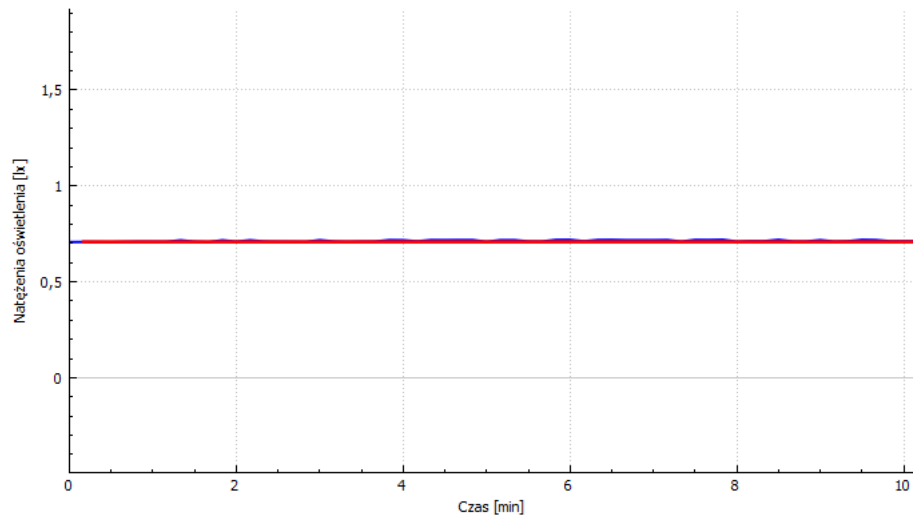
**Beam cone**



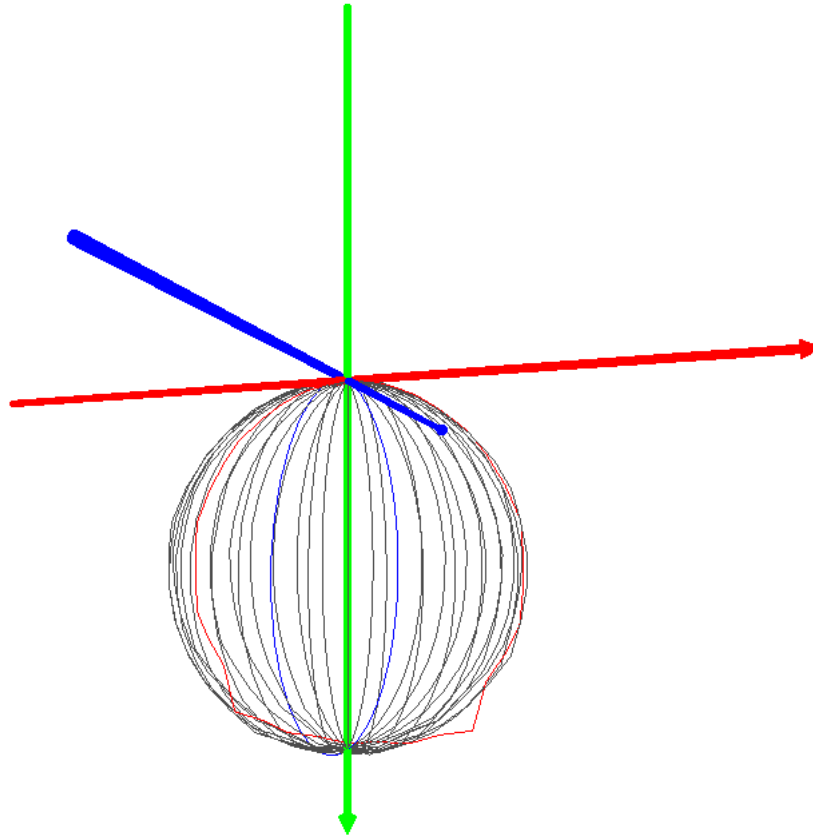
Distance [m]	Max illumince [lx]	Diameter [m]
1	143,1348	3,188
2	35,7837	6,377
3	15,9039	9,565
4	8,9459	12,753
5	5,7254	15,941

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	115,8°	6,7°	-57,9°	57,9°
0-180°	115,5°	20,0°	-57,8°	57,8°
90-270°	116,1°	5,0°	-58,0°	58,0°




## Stabilization



### 3D Chart

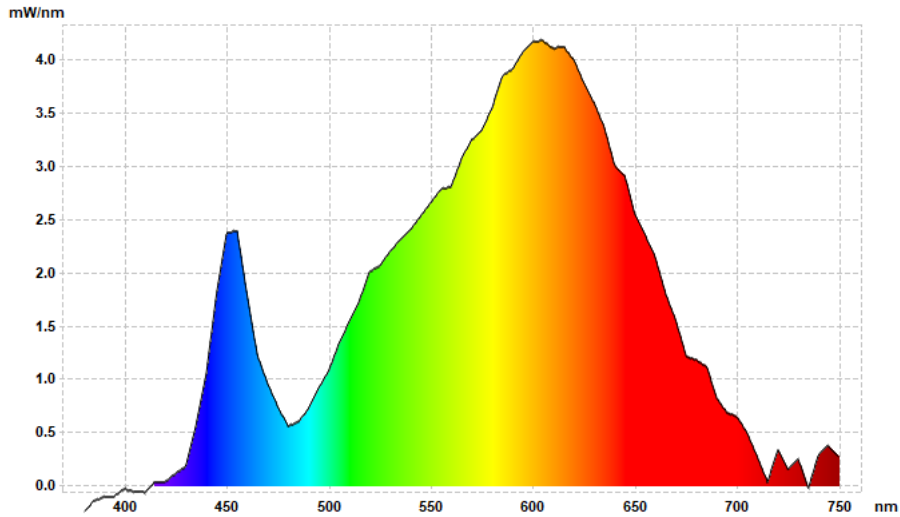


Legend

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



# Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,4365	x	0,4431	<b>CCT</b>	<b>2975</b>
y	0,4002	y	0,3950	Chromaticity Error	0,005
Flux	418,90 lm	u'	0,2586	Color Peak	600,85
		v'	0,5187	Color Peak Value	4,18
		L	100,00	Color Dominant	583,5
u'	0,2520	a	28,83	Luminous Intensity	0,00
v'	0,5198	b	54,88	Purity	0,511
L	100,00	X	241,20	Radiometric	0,6137
a	23,48	Y	215,02	PAR	
b	55,82	Z	88,14	PPFD	
Rendering Indices				Metamerism Indices	
<b>Ra</b>	<b>82,6</b>	<b>Ra</b>	<b>82,6</b>	Mivis	2,3
R1	81,6	R8	61,4	Miuv	4,7
R2	90,0	R9	11,8	Binning	
R3	95,7	R10	75,6	Binning	3000K
R4	80,9	R11	79,5	Brightness	
R5	80,8	R12	64,9		
R6	86,6	R13	83,5		
R7	83,8	R14	97,5		