

GL GONIOSPECTROMETER  
**Lighting Research & Measurement Center**

### Report Wizard Sample Description Lines

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Client name: *LED line®*  
Model name: *Taśma 300 SMD3528 24V 3900-4175K*  
Item No: *240652*  
Serial No.: *12803*  
Made by: *Radosław Kośnik*

### Eulumdat Fields

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Company: *LED line®*  
Report number: *B730*  
LuminaireName: *Taśma 300 SMD3528 24V 3900-4175K*  
LuminaireNumber: *240652*  
FileName: *B730\_240652\_12803\_G\_20200609\_R\_O*  
Date: *2020-06-09*

### 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:	425,03 lm
Color temperatur:	4126.29 K
Color rendering index:	82,08
Wattage including ballast:	4,80 W

**Utilization factors:**

k = 0.60	0,279
k = 0.80	0,369
k = 1.00	0,447
k = 1.20	0,523
k = 1.50	0,582
k = 2.00	0,672
k = 2.50	0,723
k = 3.00	0,761
k = 4.00	0,813
k = 5.00	0,845

**Electrical parameters**

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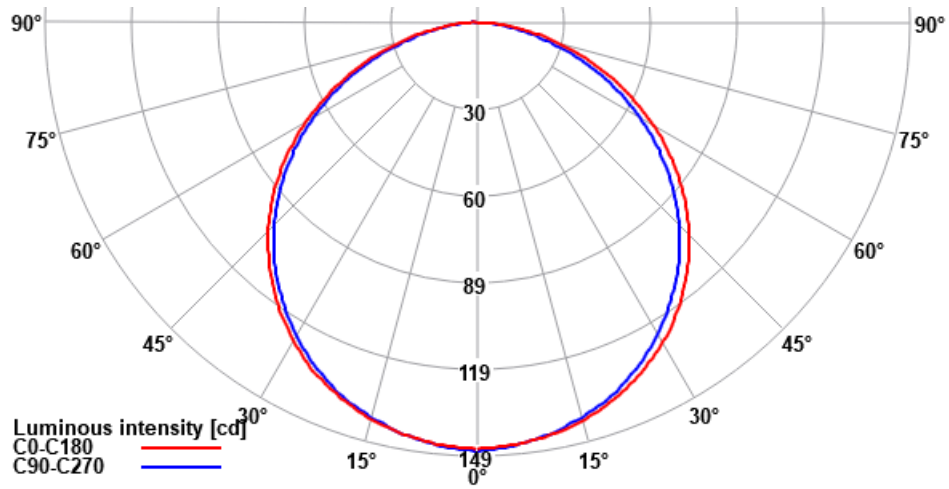
Power supply:	IT6333B 0-60V
U	= 24,002 V
I	= 0,200 A
P	= 4.8 W
Power factor	= 0,000

Temperature = 23.8 C

## Goniometric measurement results

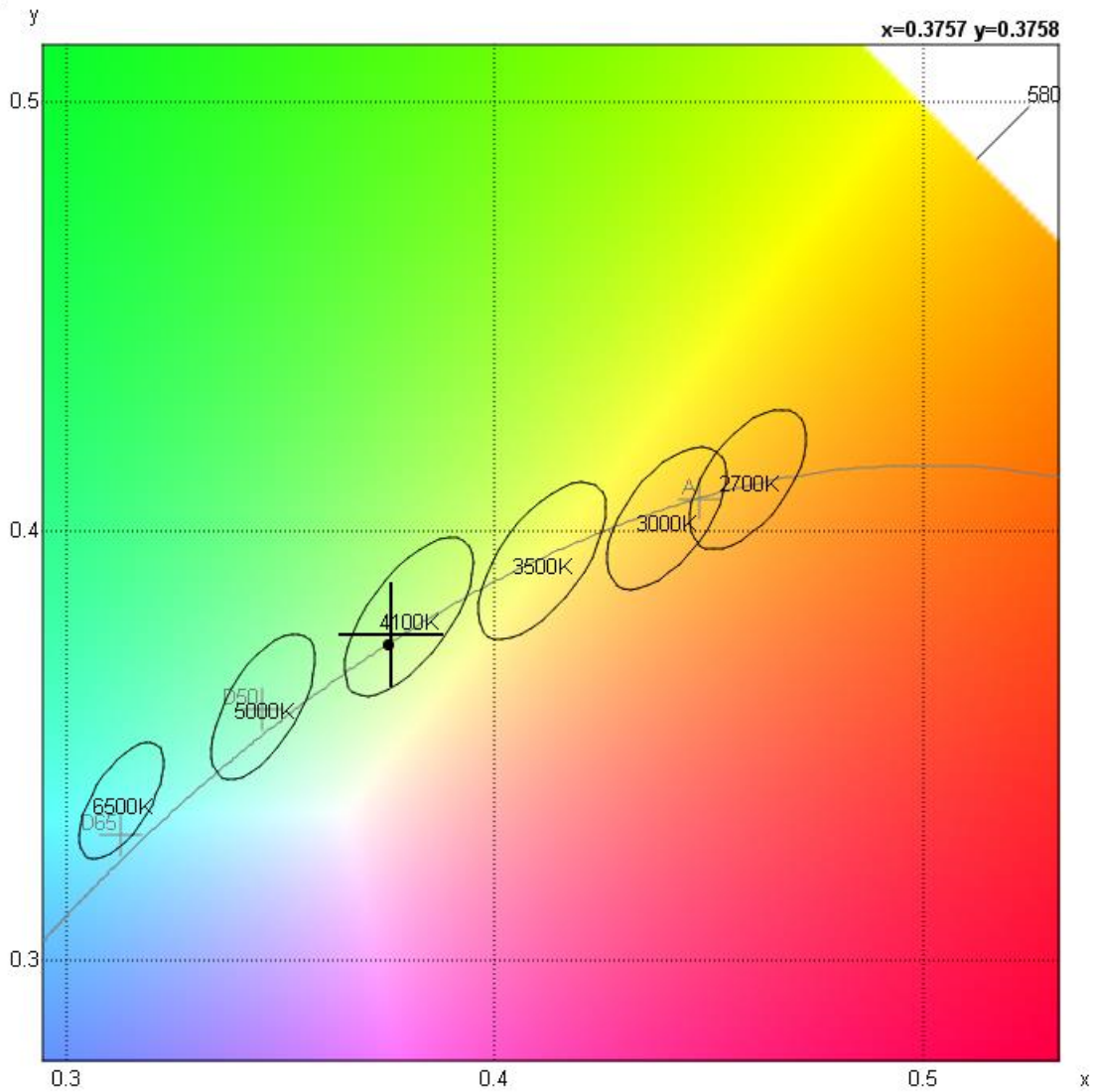
Total flux (utilized luminaire flux)	<i>425,03 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>0,00 %</i>
Maximum luminous intensity	<i>147,72 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>88,55 lm/W</i>

**Light intensity distribution diagram**

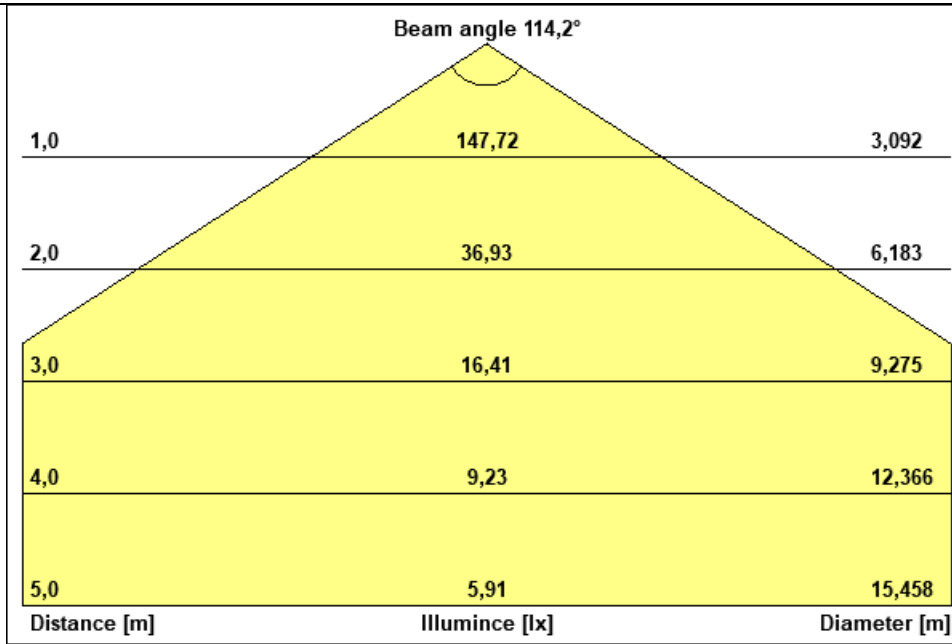


**CIE 1931 diagram**

x 0,3757  
 y 0,3758  
 Angular Colour Uniformity 0,0000  
 Binning 4100K



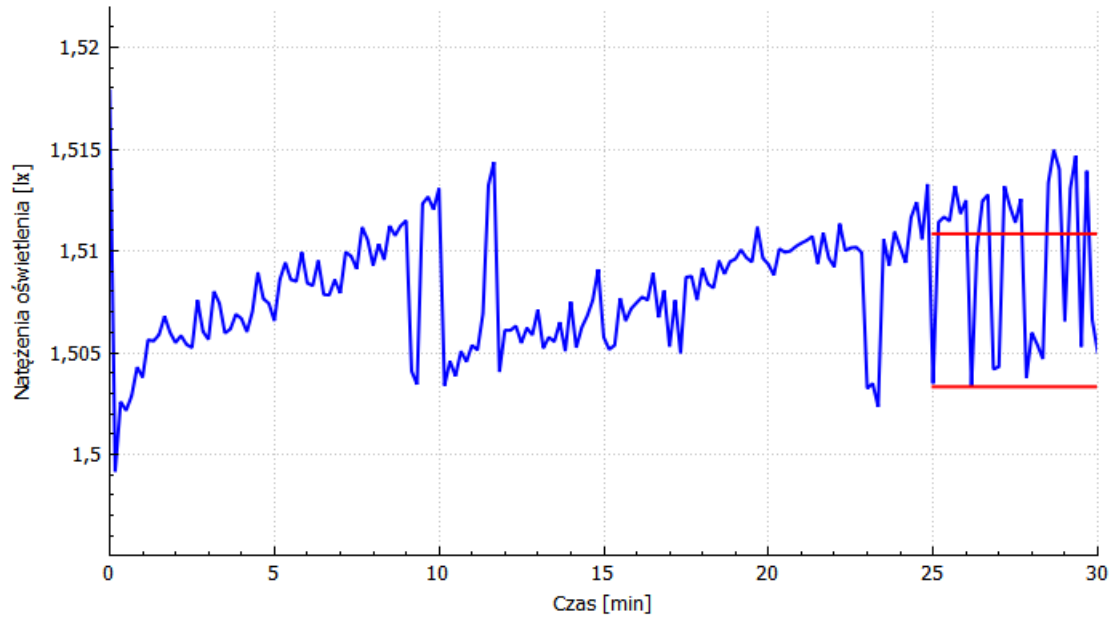
**Beam cone**



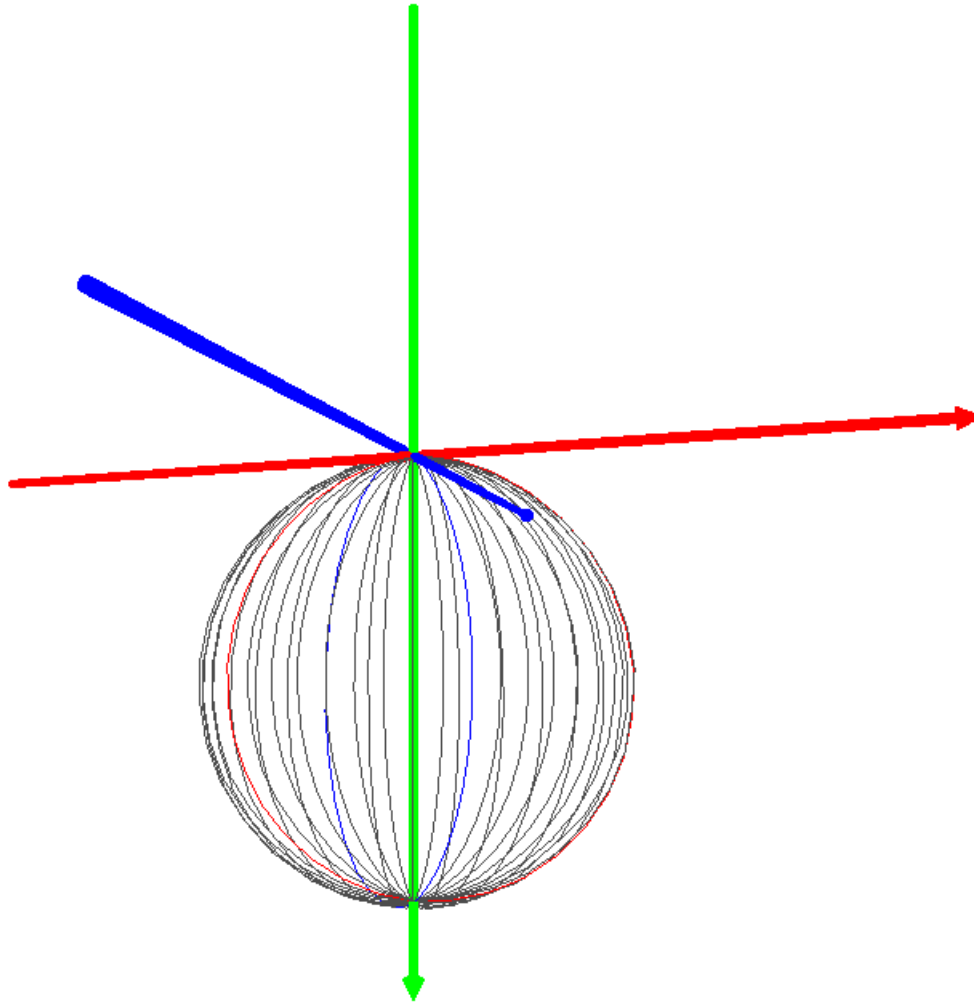
Distance [m]	Max illuminance [lx]	Diameter [m]
1	147,7173	3,092
2	36,9293	6,183
3	16,4130	9,275
4	9,2323	12,366
5	5,9087	15,458

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	114,2°	4,7°	-57,1°	57,1°
0-180°	116,2°	0,0°	-57,6°	58,6°
90-270°	112,9°	5,0°	-56,5°	56,5°

## Stabilization



### 3D Chart

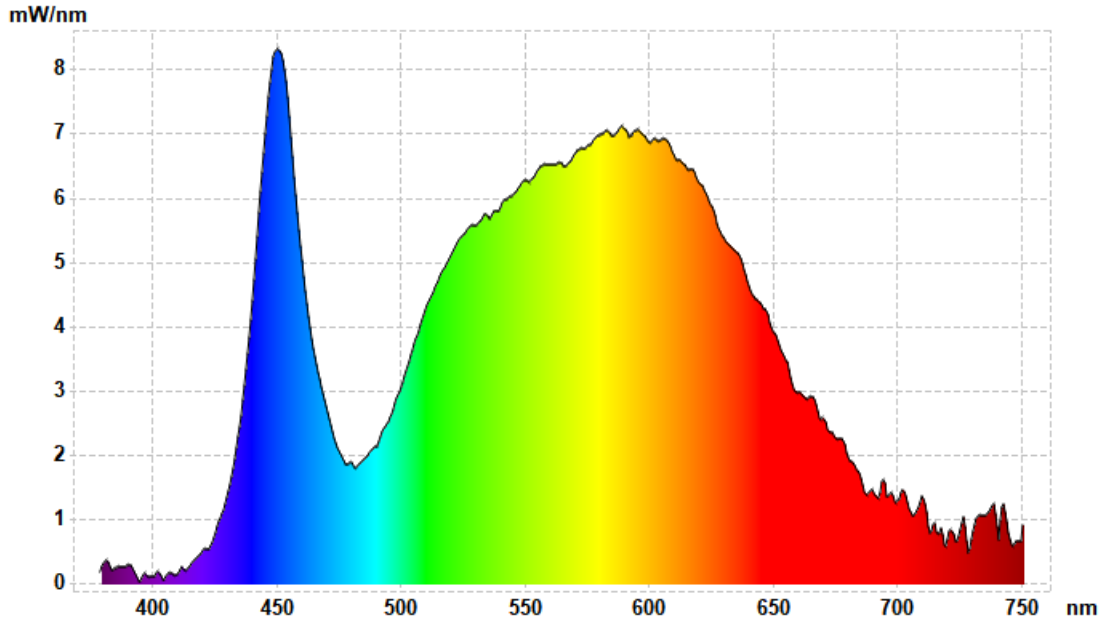


Legend

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



## Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3757	x	0,3819	CCT	4126
y	0,3758	y	0,3710	Chromaticity Error	0,003
Flux	425,03 lm	u'	0,2284	Color Peak	450,92
		v'	0,4992	Color Peak Value	8,33
		L	100,00	Color Dominant	578,0
u'	0,2223	a	13,86	Luminous Intensity	0,00
v'	0,5005	b	29,40	Purity	
L	100,00	X	463,48	Radiometric	1,3235
a	8,48	Y	450,35	PAR	-
b	30,62	Z	299,92	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	82,1	Ra	82,1	Mivis	1,7
R1	80,8	R8	68,0	Miuv	4,2
R2	86,7	R9	13,6	Binning	
R3	90,6	R10	67,5	Binning	4100K
R4	81,9	R11	79,8	Brightness	
R5	80,1	R12	55,6		
R6	80,9	R13	82,0		
R7	87,7	R14	94,6		