

GL GONIOSPECTROMETER  
**Lighting Research & Measurement Center**

**Report Wizard Sample Description Lines**

---

Client name: *LED line®*  
Model name: *Taśma LED line® 150 SMD 3528 2865-3025K*  
Item No: *240003*  
Serial No.: *02210*  
Made by: *Norbert Chrzanowski*

**Eulumdat Fields**

---

Company: *LED line®*  
Report number: *B314\_240003\_02210\_G\_20190306\_N\_P*  
LuminaireName: *Taśma LED line® 150 SMD 3528 2865-3025K*  
LuminaireNumber: *240003*  
FileName: *B314\_240003\_02210\_G\_20190306\_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: 205,10 lm  
 Color temperatur: 2974.75 K  
 Color rendering index: 82  
 Wattage including ballast: 2,37 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**

---

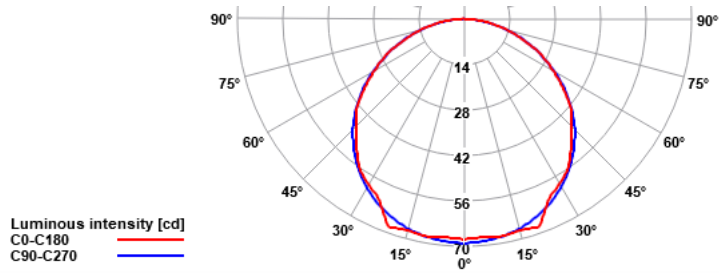
Power source: IT7321 300VA  
 U = 12,000 V  
 I = 0,198 A  
 P = 2,37 W  
 Power factor = 0,000

Temperature = 24,1 C

## Goniometric measurement results

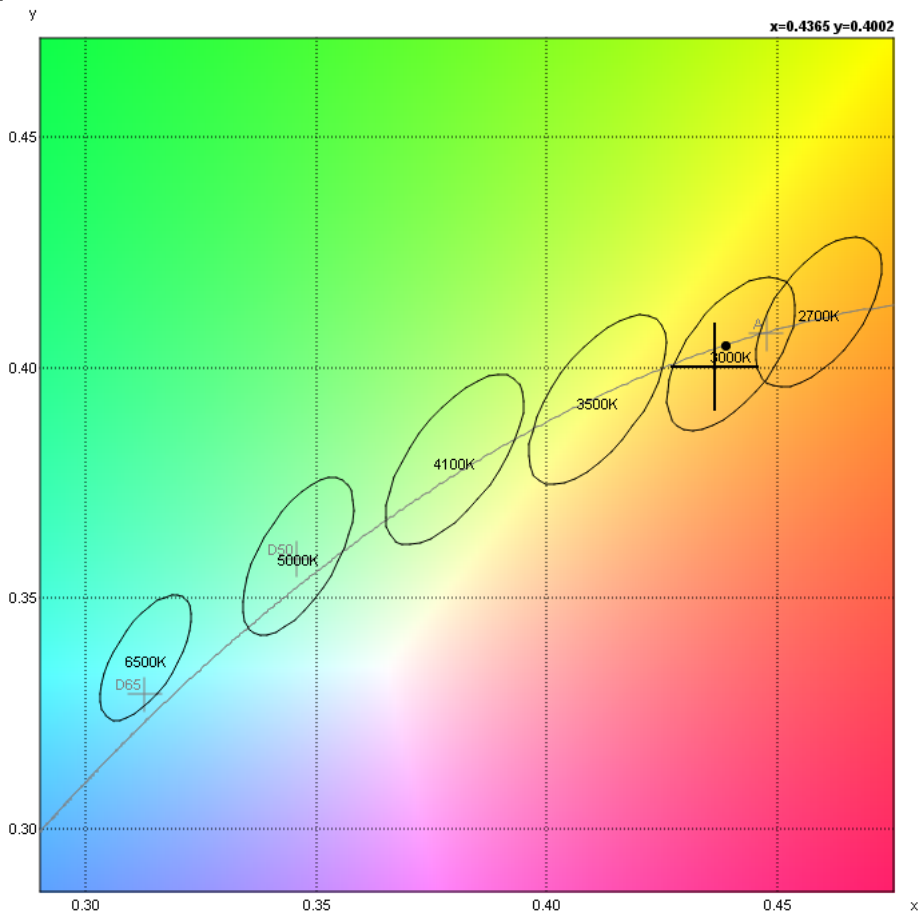
|                                      |            |
|--------------------------------------|------------|
| Total flux (utilized luminaire flux) | 205,10 lm  |
| Flux in lower hemisphere             | 100,00 %   |
| Flux in upper hemisphere             | 0,00 %     |
| Maximum luminous intensity           | 70,08 cd   |
| Light output ratio (LOR)             | 100,00 %   |
| Luminous efficacy                    | 86,54 lm/W |

# Light intensity distribution diagram

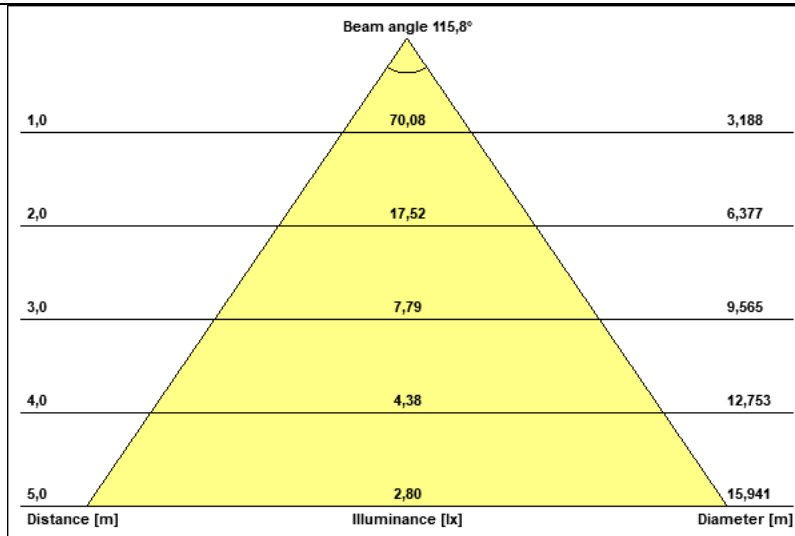


**CIE 1931 diagram**

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



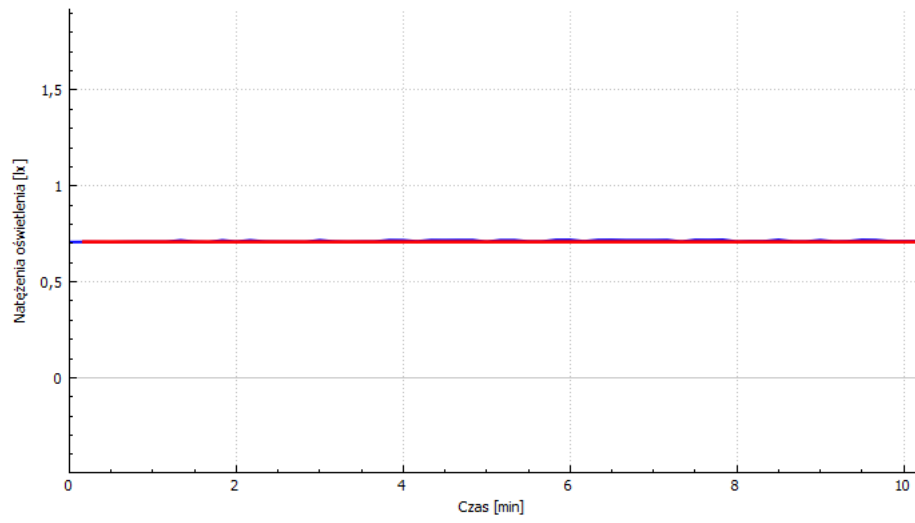
**Beam cone**



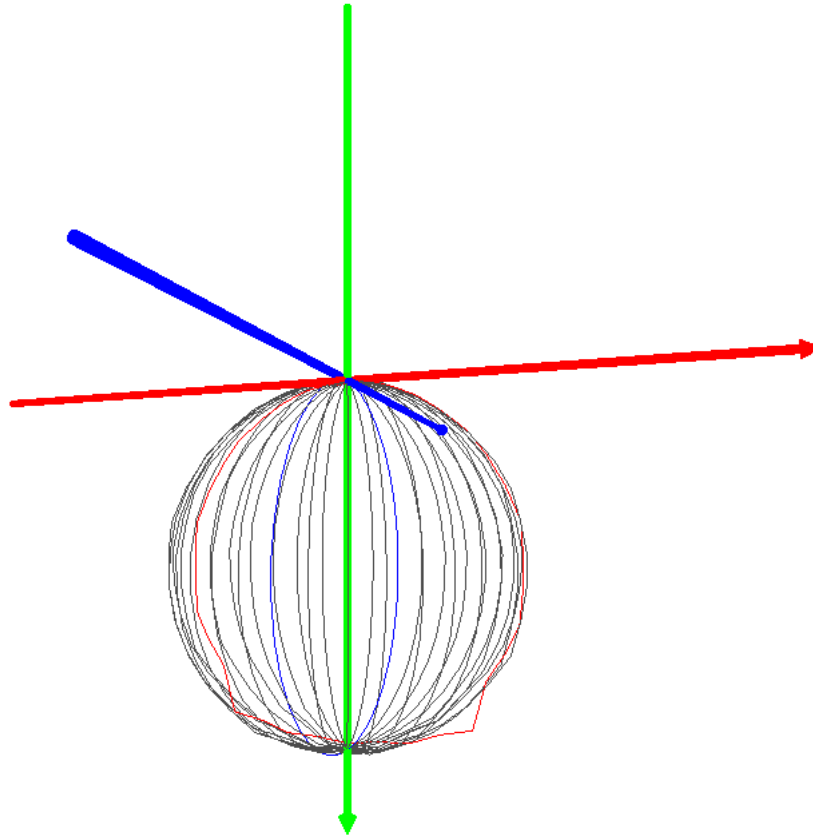
| Distance [m] | Max illumince [lx] | Diameter [m] |
|--------------|--------------------|--------------|
| 1            | 70,0810            | 3,188        |
| 2            | 17,5203            | 6,377        |
| 3            | 7,7868             | 9,565        |
| 4            | 4,3801             | 12,753       |
| 5            | 2,8032             | 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

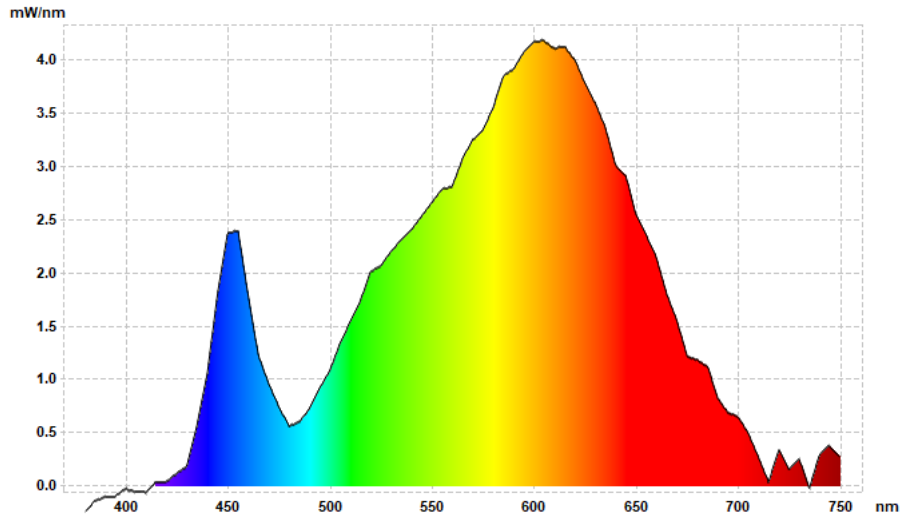


Legend

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



## Spectral distribution



| Results              |           |                       |        |                    |        |
|----------------------|-----------|-----------------------|--------|--------------------|--------|
| CIE 1931 2° observer |           | CIE 1964 10° observer |        | Other              |        |
| x                    | 0,4365    | x                     | 0,4431 | CCT                | 2975   |
| y                    | 0,4002    | y                     | 0,3950 | Chromaticity Error | 0,005  |
| Flux                 | 205,10 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 |        |
| Ra                   | 82,6      | Ra                    | 82,6   | 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   |                    |        |