

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *Panel 600mm 40W 3600lm 4000K*
Item No: *248764*
Serial No.: *19804*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B620*
LuminaireName: *Panel 600mm 40W 3600lm 4000K*
LuminaireNumber: *248764*
FileName: *B620_248764_19804_G_20190710_R_P*
Date: *2019-07-10*

Dimensions of luminaire

Length: *600 mm*
Width: *0 mm*
Height: *38 mm*

Dimensions of luminous area

Length: *545 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: | 3533,40 lm |
| Color temperatur: | 3919.95 K |
| Color rendering index: | 79,67 |
| Wattage including ballast: | 43,35 W |

Utilization factors:

| | |
|----------|-------|
| k = 0.60 | 0,279 |
| k = 0.80 | 0,367 |
| k = 1.00 | 0,444 |
| k = 1.20 | 0,520 |
| k = 1.50 | 0,578 |
| k = 2.00 | 0,668 |
| k = 2.50 | 0,718 |
| k = 3.00 | 0,757 |
| k = 4.00 | 0,809 |
| k = 5.00 | 0,842 |

Electrical parameters

| | |
|---------------------|-------------|
| <i>U</i> | = 230,098 V |
| <i>I</i> | = 0,194 A |
| <i>P</i> | = 43,350 W |
| <i>Power factor</i> | = 0,972 |

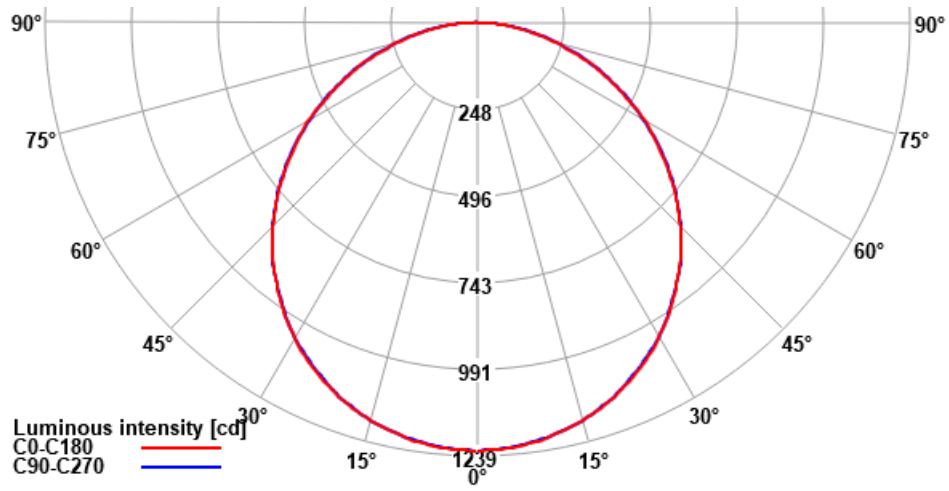
| | |
|--------------------------|-------------|
| <i>Power apparent</i> | = 0,000 VA |
| <i>Power Reactive</i> | = 0,000 var |
| <i>Frequency Voltage</i> | = 0,000 Hz |
| <i>THD</i> | = 0,000 % |

Temperature = 23.8 C

Goniometric measurement results

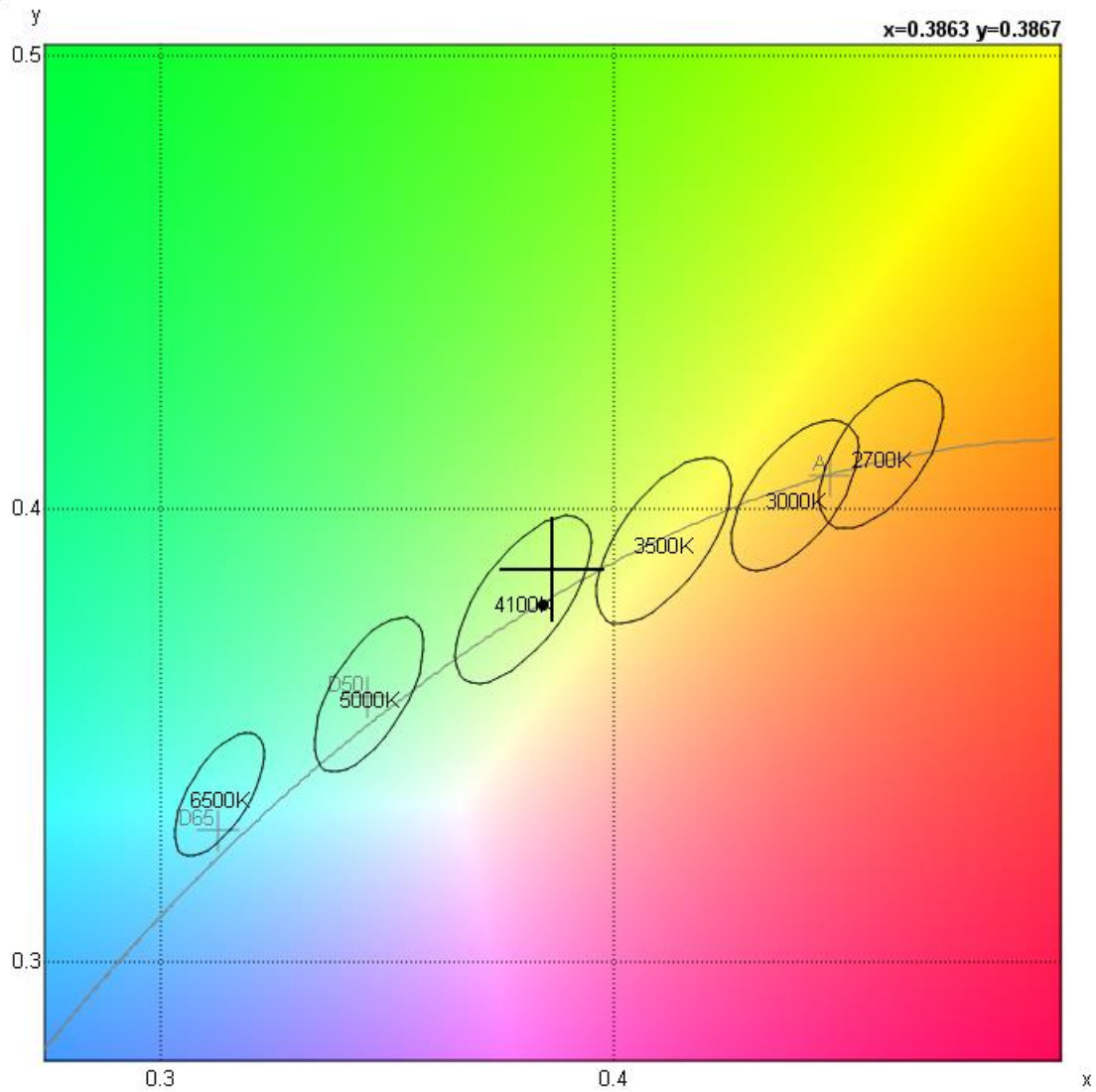
| | |
|--------------------------------------|-------------------|
| Total flux (utilized luminaire flux) | 3533,40 <i>lm</i> |
| Flux in lower hemisphere | 100,00 % |
| Flux in upper hemisphere | -0,00 % |
| Maximum luminous intensity | 1227,80 <i>cd</i> |
| Light output ratio (LOR) | 100,00 % |
| Luminous efficacy | 81,51 <i>lm/W</i> |

Light intensity distribution diagram

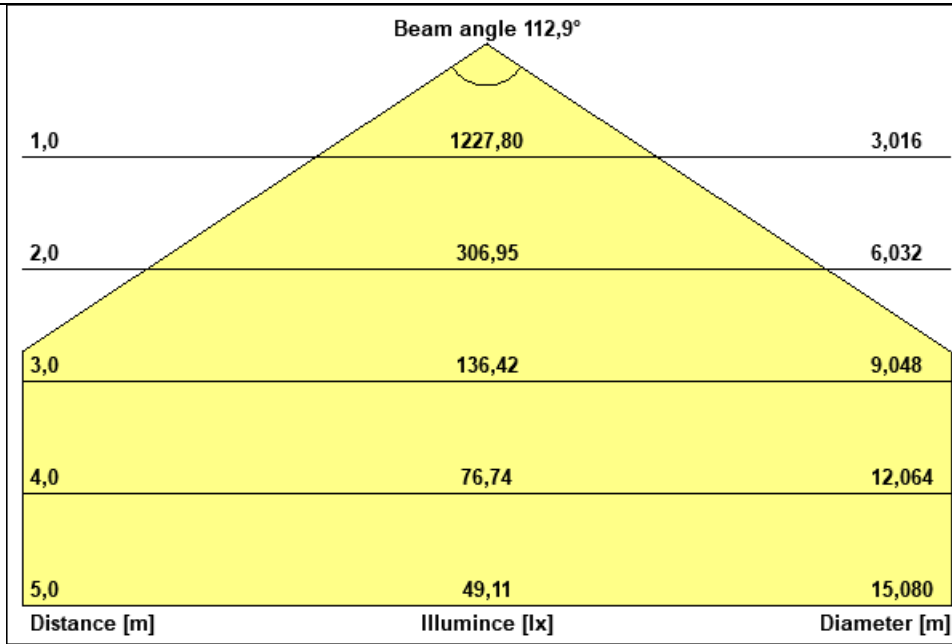


CIE 1931 diagram

x 0,3863
 y 0,3867
 Angular Colour Uniformity 0,0000
 Binning 4100K



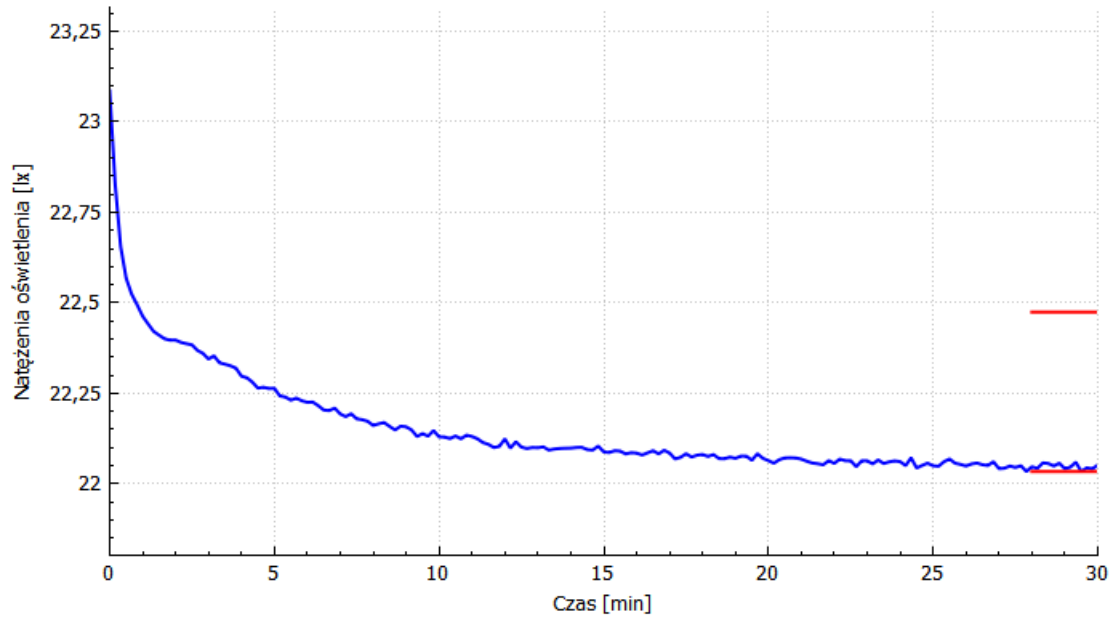
Beam cone



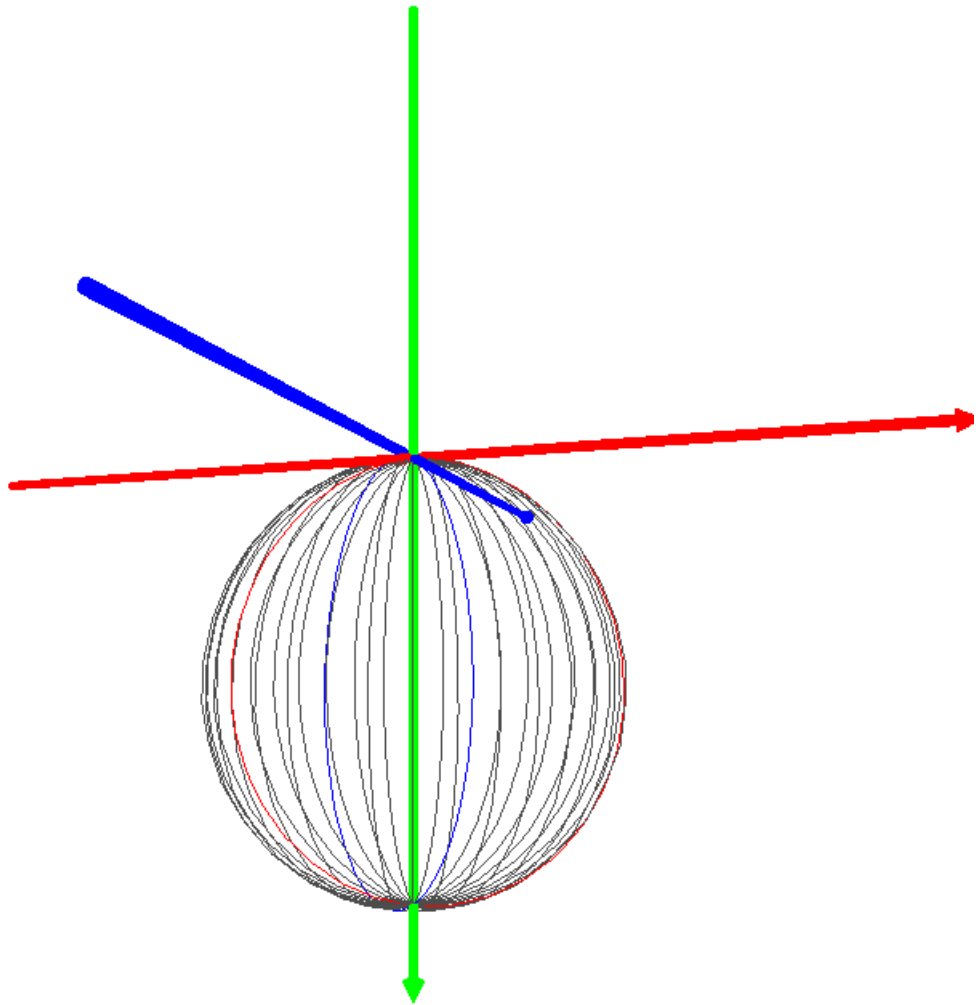
| Distance [m] | Max illuminance [lx] | Diameter [m] |
|--------------|----------------------|--------------|
| 1 | 1227,7964 | 3,016 |
| 2 | 306,9491 | 6,032 |
| 3 | 136,4218 | 9,048 |
| 4 | 76,7373 | 12,064 |
| 5 | 49,1119 | 15,080 |

| C plane | Beam angle | Gamma max | Start [°] | Stop [°] |
|---------|------------|-----------|-----------|----------|
| Average | 112,9° | 5,0° | -56,5° | 56,5° |
| 0-180° | 113,3° | 5,0° | -56,7° | 56,7° |
| 90-270° | 113,9° | 5,0° | -56,9° | 56,9° |

Stabilization



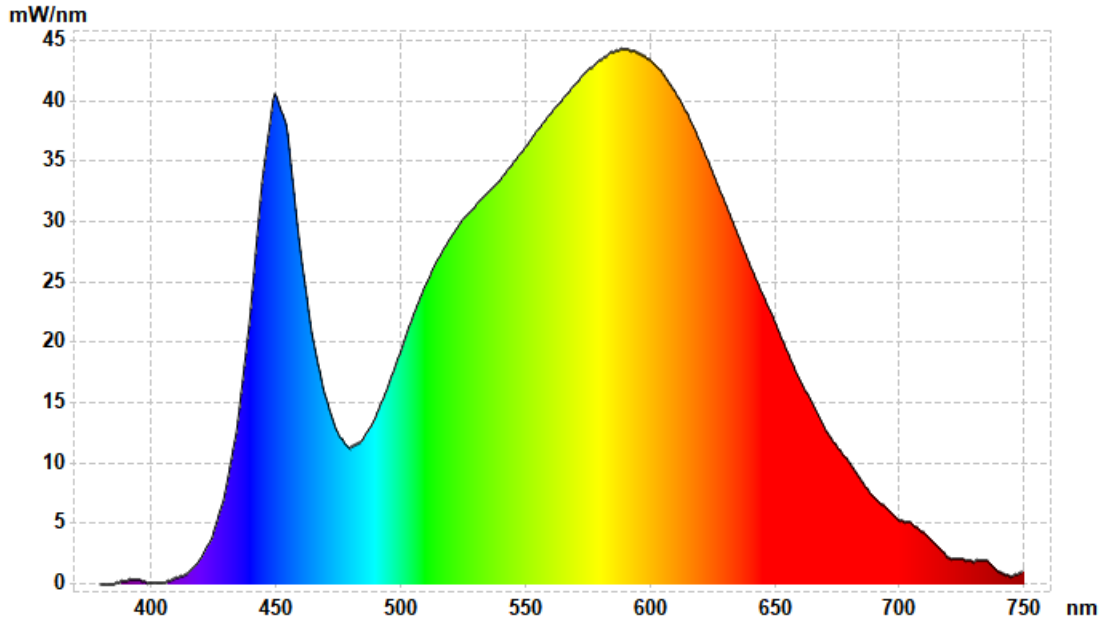
3D Chart



Legend

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

Spectral distribution



| Results | | | | | |
|----------------------|------------|-----------------------|---------|--------------------|--------|
| CIE 1931 2° observer | | CIE 1964 10° observer | | Other | |
| x | 0,3863 | x | 0,3933 | CCT | 3920 |
| y | 0,3867 | y | 0,3819 | Chromaticity Error | 0,004 |
| Flux | 3533,40 lm | u' | 0,2315 | Color Peak | 590,55 |
| | | v' | 0,5057 | Color Peak Value | 44,28 |
| | | L | 100,00 | Color Dominant | 578,0 |
| u' | 0,2250 | a | 13,96 | Luminous Intensity | 0,00 |
| v' | 0,5067 | b | 36,27 | Purity | |
| L | 100,00 | X | 2751,98 | Radiometric | 7,4189 |
| a | 8,36 | Y | 2672,41 | PAR | - |
| b | 37,21 | Z | 1573,18 | PPFD | - |
| Rendering Indices | | | | Metamerism Indices | |
| Ra | 79,7 | Ra | 79,7 | Mivis | 1,8 |
| R1 | 76,9 | R8 | 59,9 | Miuv | 4,3 |
| R2 | 86,1 | R9 | -5,0 | Binning | |
| R3 | 93,6 | R10 | 67,2 | Binning | 4100K |
| R4 | 78,2 | R11 | 75,9 | Brightness | |
| R5 | 76,9 | R12 | 56,1 | | |
| R6 | 80,7 | R13 | 78,9 | | |
| R7 | 85,1 | R14 | 96,5 | | |