

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *UFO T 200W 30000LM 4000K 90° DIMM*
Item No: *247323*
Serial No.: *12503*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LEDline®*
Report number: *B784*
LuminaireName: *UFO T 200W 30000LM 4000K 90° DIMM*
LuminaireNumber: *247323*
FileName: *B784_247323_12503_G_20190826_R_P*
Date: *2019-08-26*

Dimensions of luminaire

Length: *320 mm*
Width: *0 mm*
Height: *250 mm*

Dimensions of luminous area

Length: *195 mm*
Width: *0 mm*
C0-plane *5 mm*
C90-plane *5 mm*
C180-plane *5 mm*
C270-plane *5 mm*

Lamps:

Number of lamps: 1
 Type of lamps: 0
 Total luminous flux: 29932,80 lm
 Color temperatur: 3936.62 K
 Color rendering index: 73,81
 Wattage including ballast: 199,99 W

Utilization factors:

k = 0.60 0,415
 k = 0.80 0,508
 k = 1.00 0,587
 k = 1.20 0,659
 k = 1.50 0,711
 k = 2.00 0,788
 k = 2.50 0,821
 k = 3.00 0,848
 k = 4.00 0,882
 k = 5.00 0,902

Electrical parameters

U = 230,001 V
I = 0,894 A
P = 199,994 W
 Power factor = 0,972

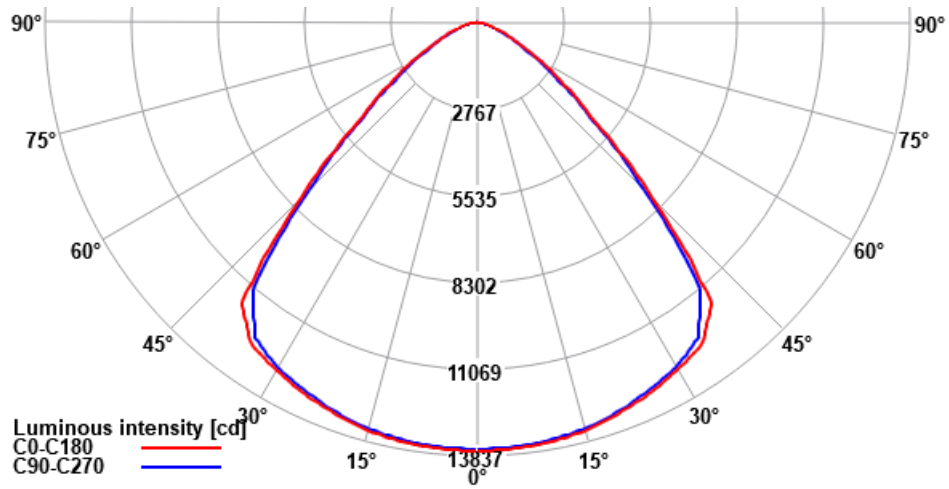
Power apparent = 0,000 VA
 Power Reactive = 0,000 var
 Frequency Voltage = 0,000 Hz
 THD = 0,000 %

Temperature = 26.2 C

Goniometric measurement results

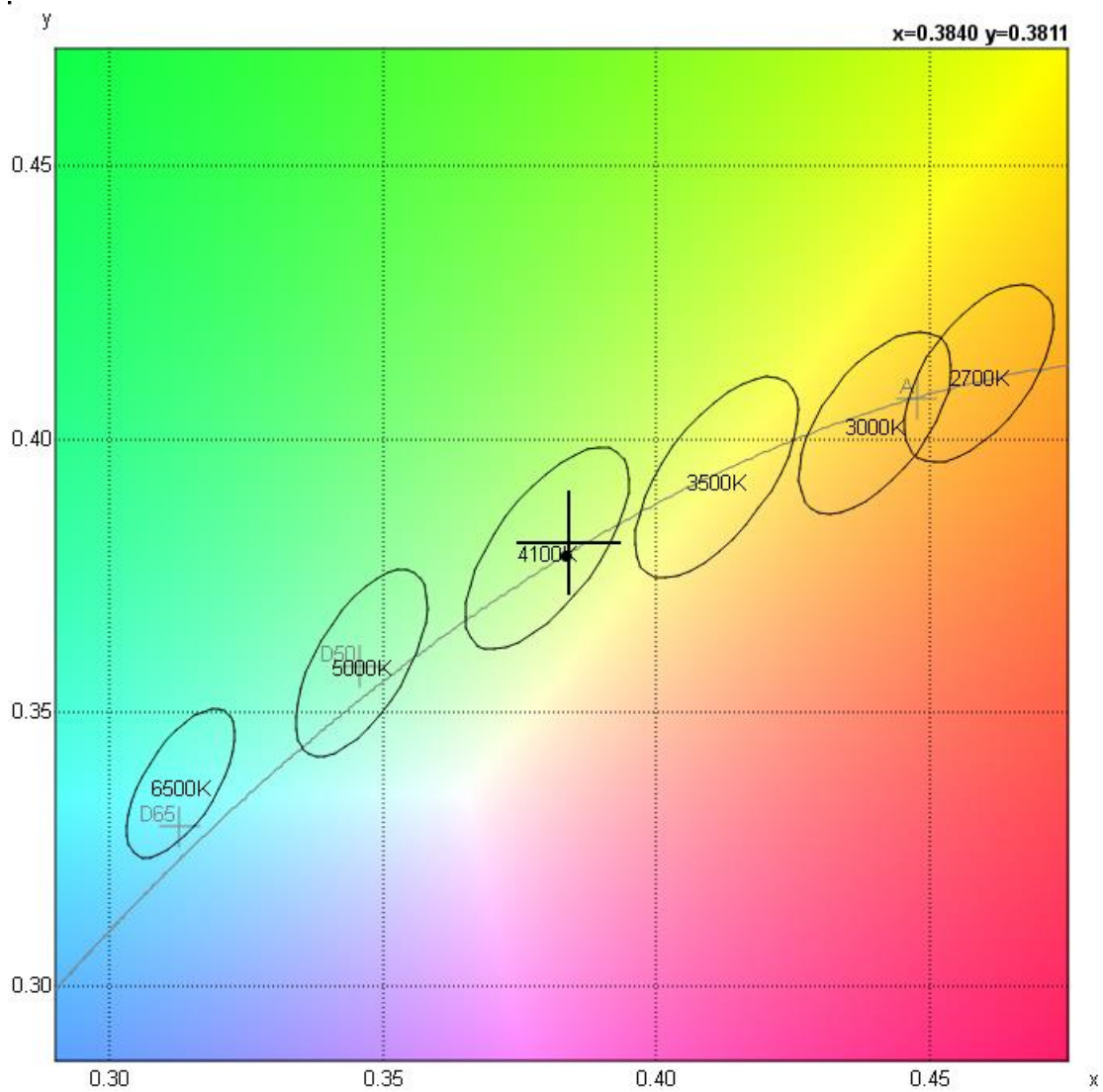
Total flux (utilized luminaire flux)	29932,80 lm
Flux in lower hemisphere	100,00 %
Flux in upper hemisphere	-0,00 %
Maximum luminous intensity	13699,73 cd
Light output ratio (LOR)	100,00 %
Luminous efficacy	149,67 lm/W

Light intensity distribution diagram

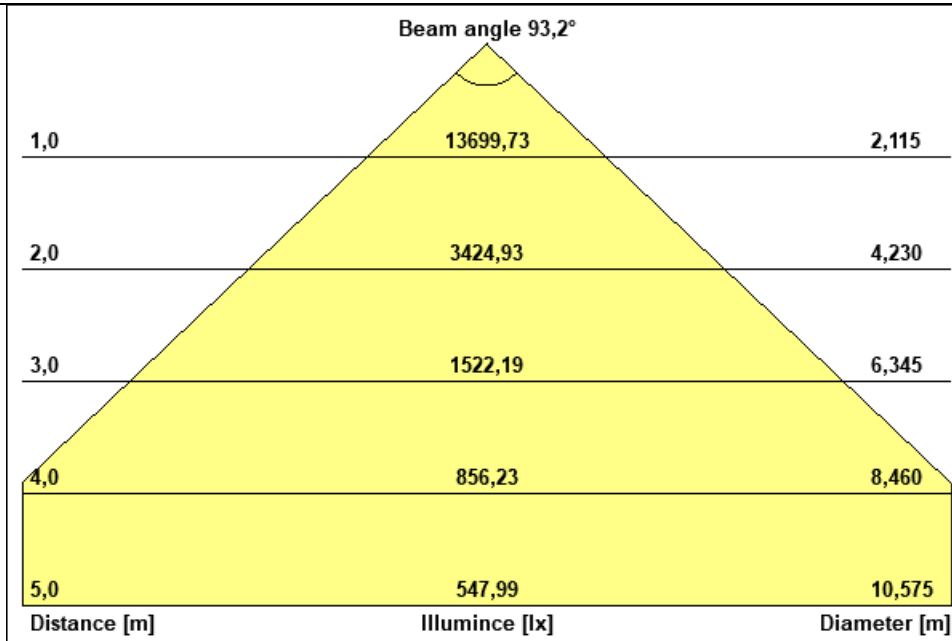


CIE 1931 diagram

x 0,3840
 y 0,3811
 Angular Colour Uniformity 0,0000
 Binning 4100K



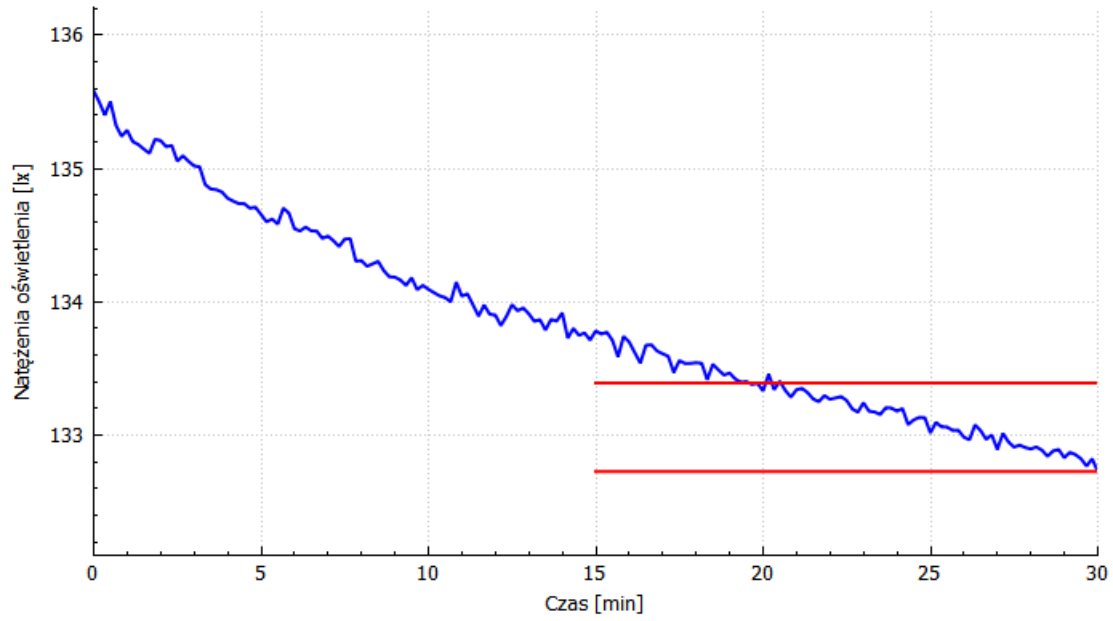
Beam cone



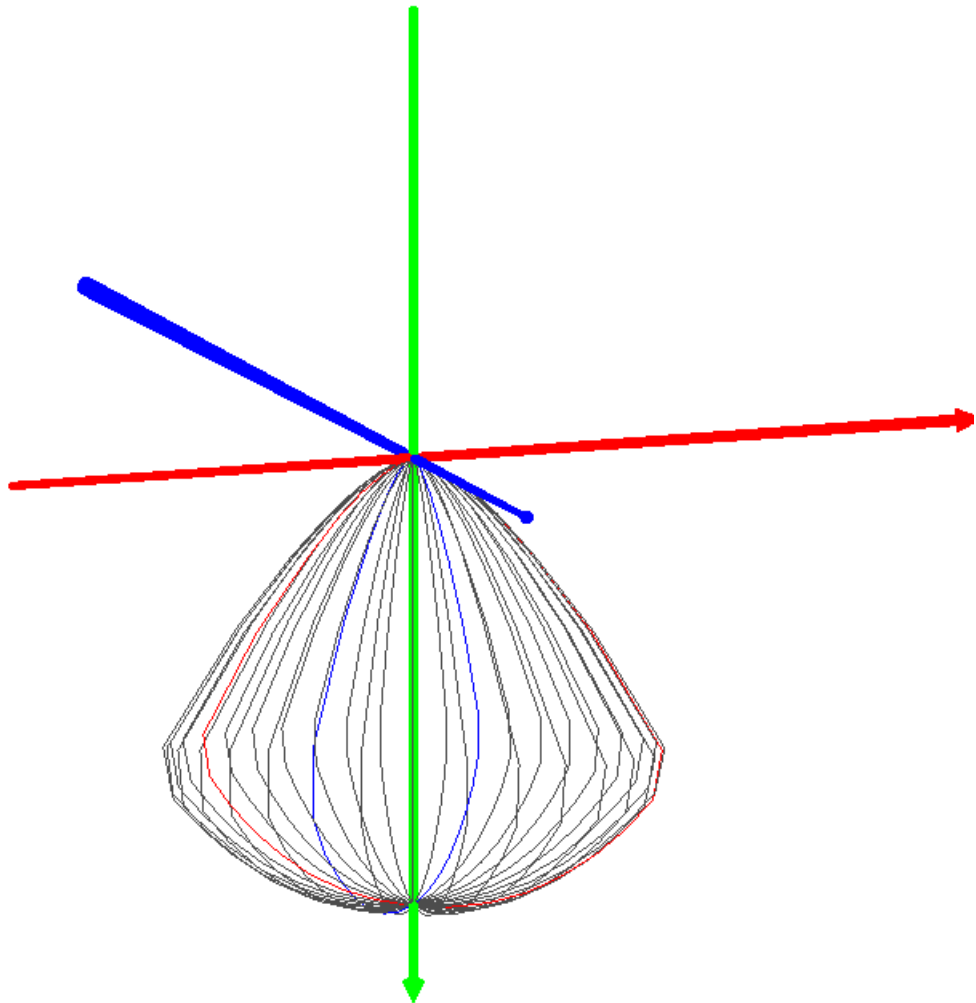
Distance [m]	Max illuminance [lx]	Diameter [m]
1	13699,7337	2,115
2	3424,9334	4,230
3	1522,1926	6,345
4	856,2334	8,460
5	547,9893	10,575

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	93,2°	5,0°	-46,6°	46,6°
0-180°	93,7°	5,0°	-46,8°	46,8°
90-270°	92,8°	5,0°	-46,4°	46,4°

Stabilization



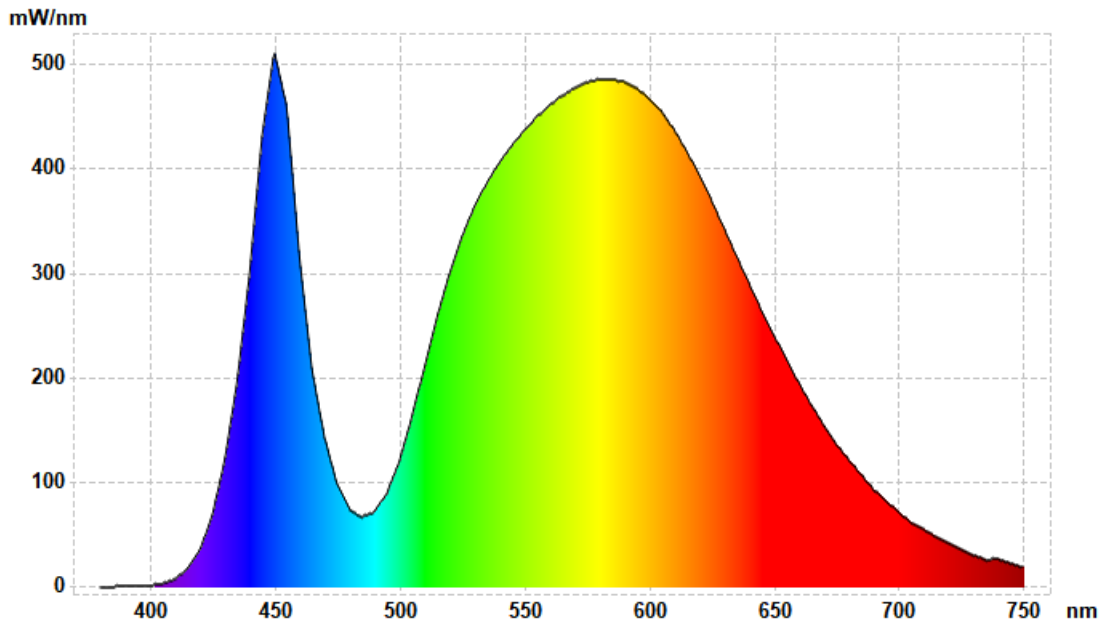
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3840	x	0,3914	CCT	3937
y	0,3811	y	0,3728	Chromaticity Error	0,005
Flux	29932,80 lm	u'	0,2340	Color Peak	450,92
		v'	0,5014	Color Peak Value	515,54
		L	100,00	Color Dominant	578,8
u'	0,2257	a	17,30	Luminous Intensity	0,00
v'	0,5040	b	32,29	Purity	
L	100,00	X	31003,62	Radiometric	82,6233
a	9,84	Y	29528,12	PAR	-
b	34,55	Z	18682,64	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	73,8	Ra	73,8	Mivis	2,0
R1	71,7	R8	58,4	Miuv	4,7
R2	79,7	R9	-13,3	Binning	
R3	84,4	R10	50,0	Binning	4100K
R4	72,8	R11	67,1	Brightness	
R5	70,3	R12	40,3		
R6	69,9	R13	72,8		
R7	83,4	R14	90,8		