

GL GONIOSPECTROMETER
Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *UFO T 200W 30000LM 4000K 120° DIMM*
Item No: *247330*
Serial No.: *12503*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LEDline®*
Report number: *B785*
LuminaireName: *UFO T 200W 30000LM 4000K 120° DIMM*
LuminaireNumber: *247330*
FileName: *B785_247330_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: 29773,20 lm
 Color temperatur: 3971.4 K
 Color rendering index: 74,15
 Wattage including ballast: 199,13 W

Utilization factors:

k = 0.60 0,311
 k = 0.80 0,409
 k = 1.00 0,491
 k = 1.20 0,570
 k = 1.50 0,630
 k = 2.00 0,717
 k = 2.50 0,763
 k = 3.00 0,797
 k = 4.00 0,842
 k = 5.00 0,870

Electrical parameters

U = 230,009 V
I = 0,889 A
P = 199,133 W
 Power factor = 0,973

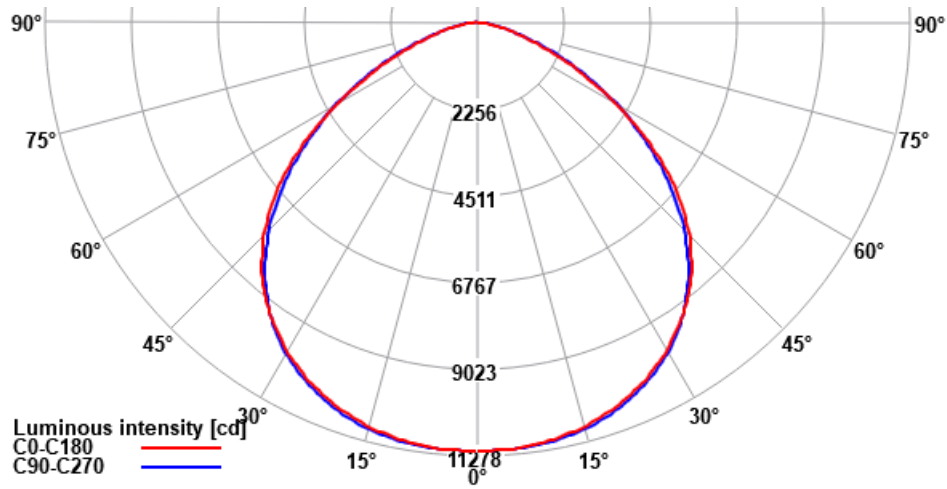
Power apparent = 0,000 VA
 Power Reactive = 0,000 var
 Frequency Voltage = 0,000 Hz
 THD = 0,000 %

Temperature = 26.2 C

Goniometric measurement results

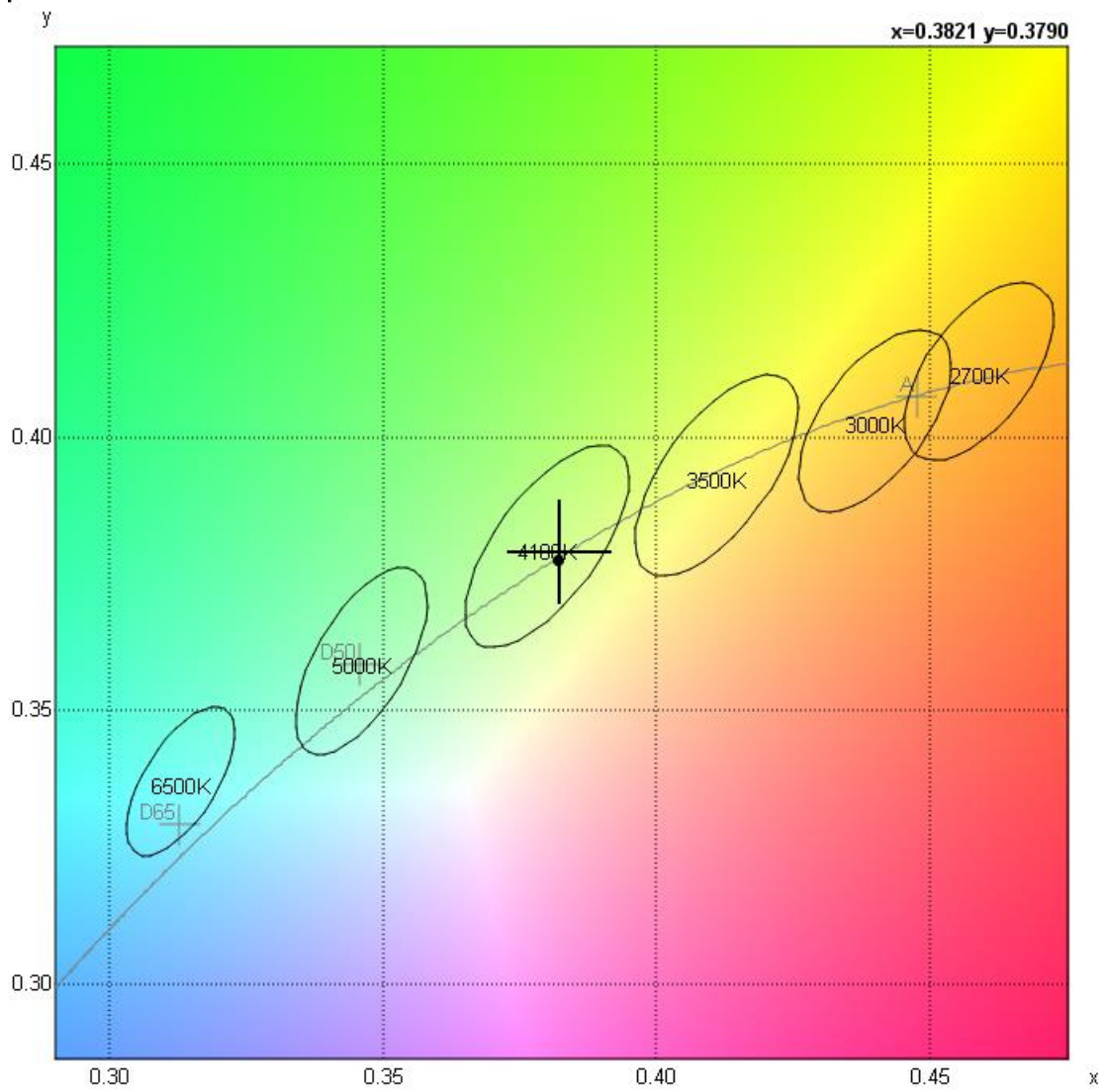
Total flux (utilized luminaire flux)	<i>29773,20 lm</i>
Flux in lower hemisphere	<i>100,00 %</i>
Flux in upper hemisphere	<i>0,00 %</i>
Maximum luminous intensity	<i>11167,39 cd</i>
Light output ratio (LOR)	<i>100,00 %</i>
Luminous efficacy	<i>149,52 lm/W</i>

Light intensity distribution diagram

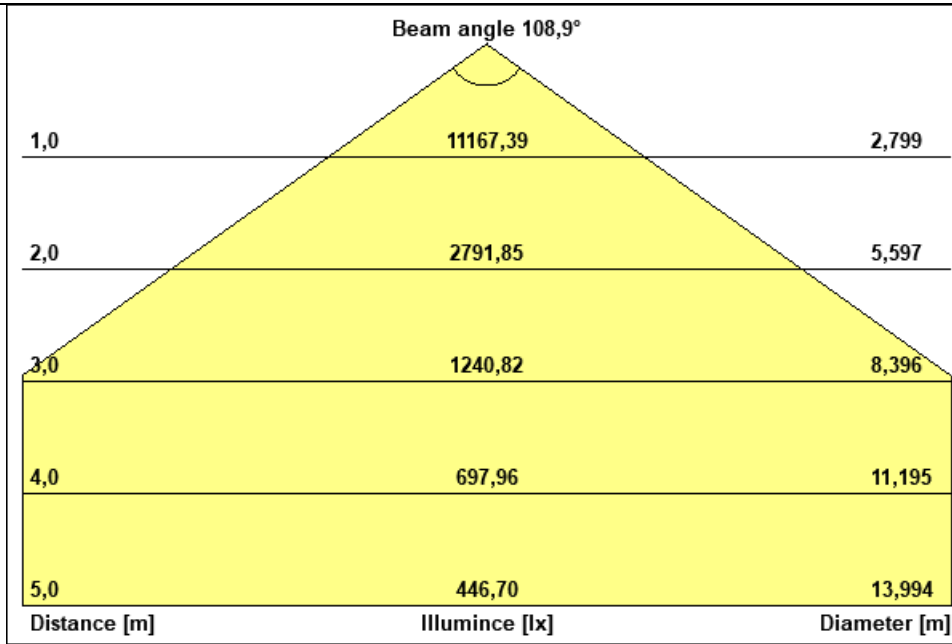


CIE 1931 diagram

x 0,3821
 y 0,3790
 Angular Colour Uniformity 0,0000
 Binning 4100K



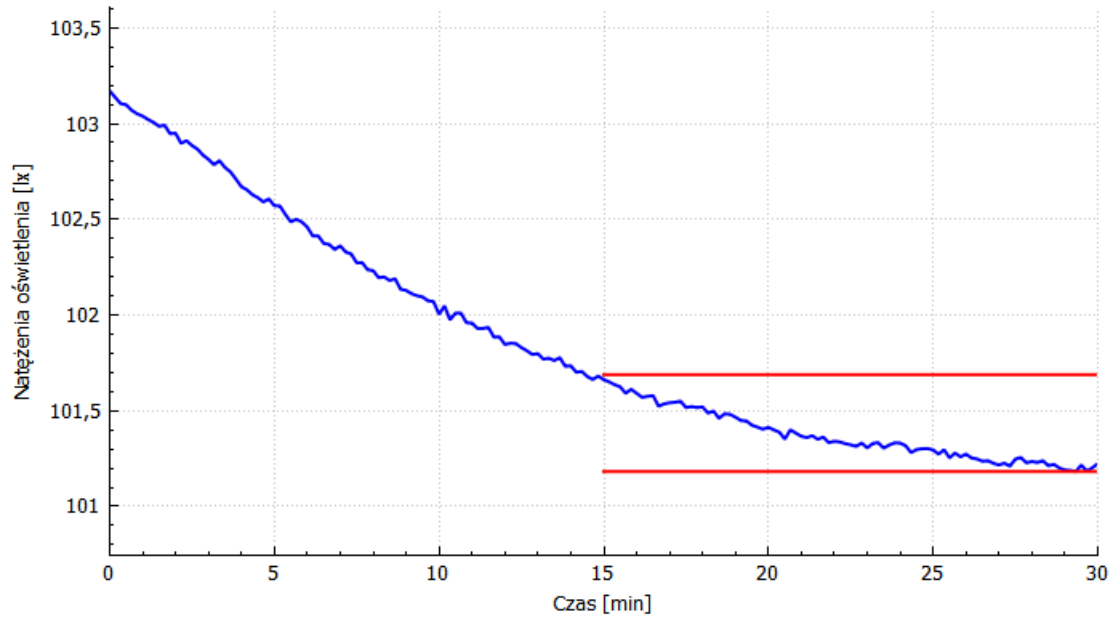
Beam cone



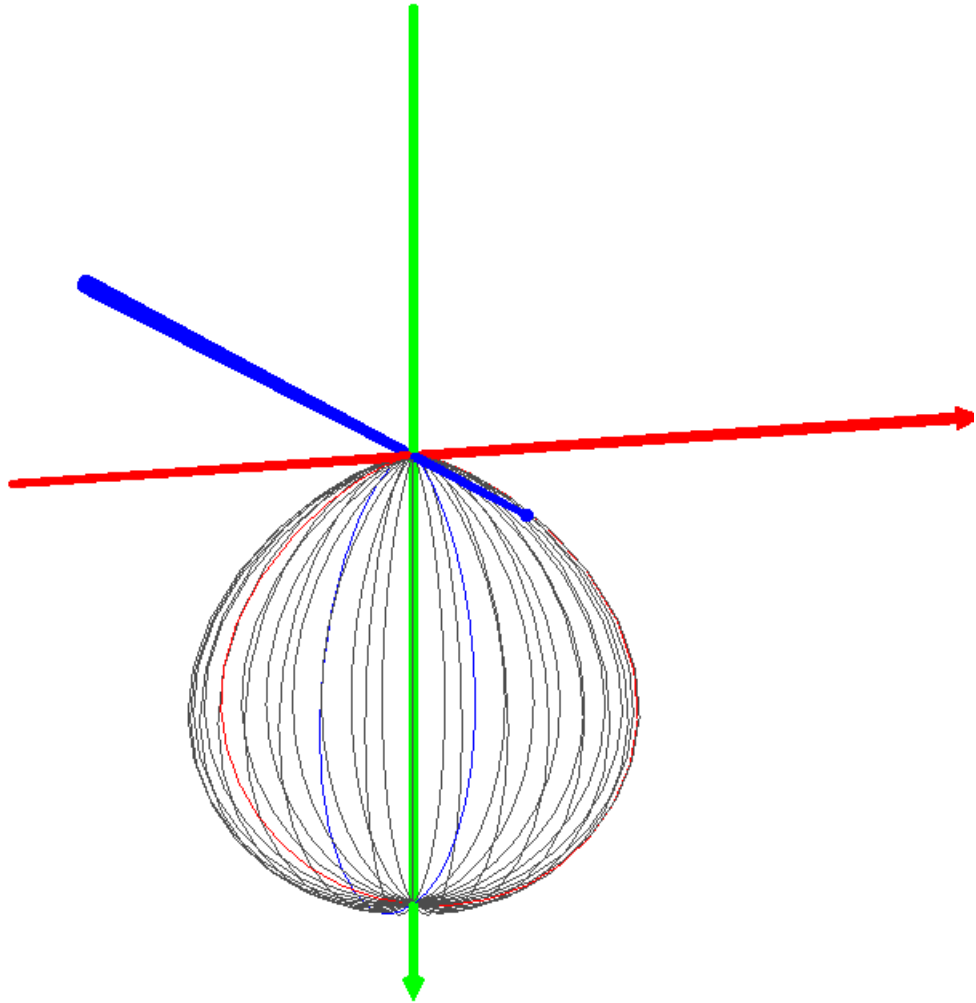
Distance [m]	Max illuminance [lx]	Diameter [m]
1	11167,3914	2,799
2	2791,8479	5,597
3	1240,8213	8,396
4	697,9620	11,195
5	446,6957	13,994

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	108,9°	5,0°	-54,4°	54,4°
0-180°	109,5°	5,0°	-54,7°	54,7°
90-270°	108,2°	5,0°	-54,1°	54,1°

Stabilization



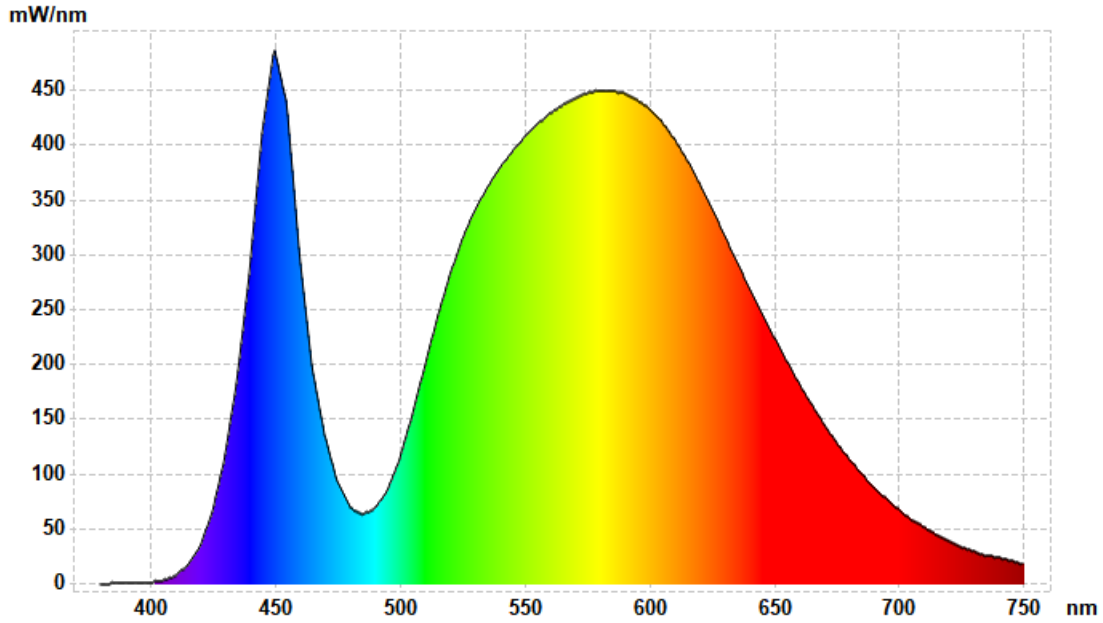
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2° observer		CIE 1964 10° observer		Other	
x	0,3821	x	0,3893	CCT	3971
y	0,3790	y	0,3708	Chromaticity Error	0,006
Flux	29773,20 lm	u'	0,2335	Color Peak	450,92
		v'	0,5003	Color Peak Value	491,27
		L	100,00	Color Dominant	578,9
u'	0,2253	a	17,31	Luminous Intensity	0,00
v'	0,5028	b	31,04	Purity	
L	100,00	X	28862,28	Radiometric	77,2874
a	9,94	Y	27487,16	PAR	-
b	33,31	Z	17782,53	PPFD	-
Rendering Indices				Metamerism Indices	
Ra	74,2	Ra	74,2	Mivis	2,0
R1	72,2	R8	59,1	Miuv	4,7
R2	79,9	R9	-11,4	Binning	
R3	84,3	R10	50,5	Binning	4100K
R4	73,2	R11	67,6	Brightness	
R5	70,7	R12	40,8		
R6	70,2	R13	73,2		
R7	83,6	R14	90,7		