GL GONIOSPECTROMETER

Lighting Research & Measurement Center

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *EasyFix AURA smart 18W - 2800K*
Item No: *470652*
Serial No.: *68812*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B1176*
LuminaireName: *EasyFix AURA smart 18W - 2800K*
LuminaireNumber: *470652*
FileName: *B1176_470652_68812_G_20200206_R_O_W*
Date: *2020-02-06*

Dimensions of luminaire

Length: *217* mm
Width: *0* mm
Height: *15* mm

Dimensions of luminous area

Length: *173* 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:	*1355,77 lm*
Color temperatur:	*2976.26 K*
Color rendering index:	*80,77*
Wattage including ballast:	*18,28 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	*0,579*
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

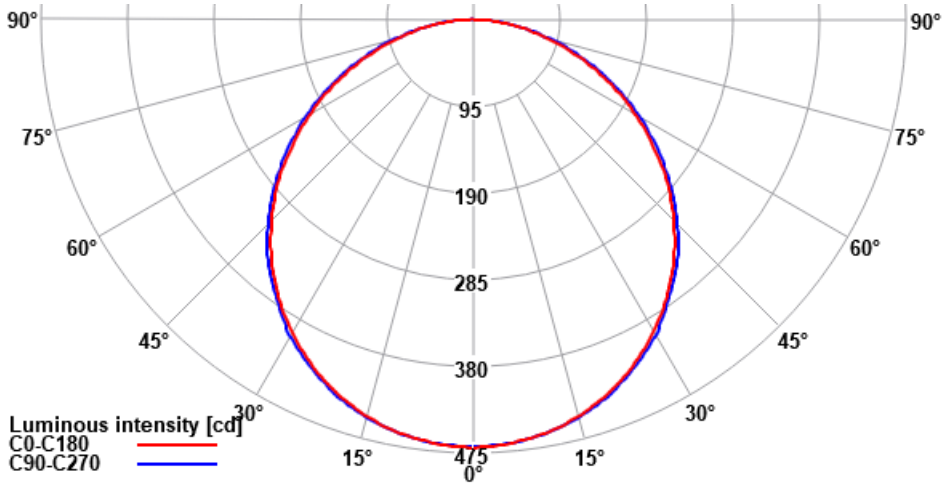
Power source:	*IT7321 300VA*
U	*= 229,975 V*
I	*= 0,144 A*
P	*= 18,279 W*
Power factor	*= 0,553*

Temperature = 23.6 C

Goniometric measurement results

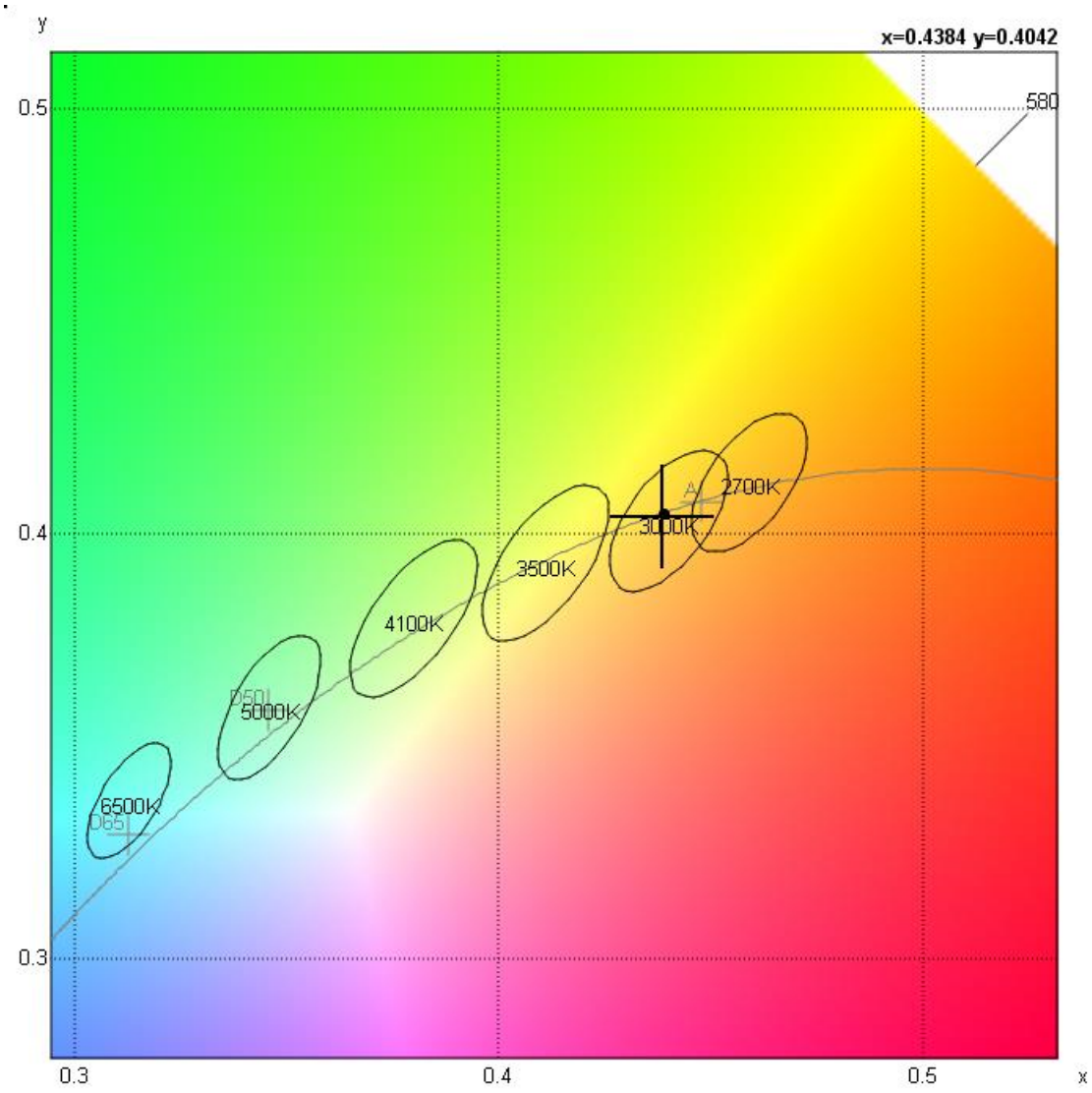
Total flux (utilized luminarie flux)	*1355,77 lm*
Flux in lower hemisphere	*100,00 %*
Flux in upper hemisphere	*0,00 %*
Maximium luminous intensity	*469,82 cd*
Light output ratio (LOR)	*100,00 %*
Luminous efficacy	*74,17 lm/W*

Light intensity distribution diagram

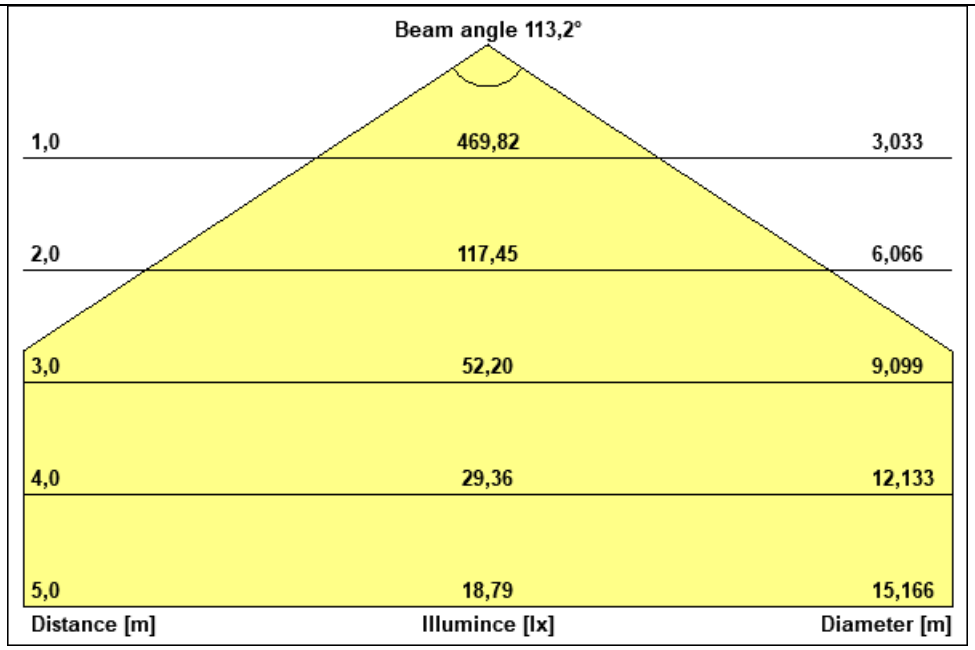


CIE 1931 diagram

x	0,4384
y	0,4042
Angular Colour Uniformity	0,0000
Binning	3000K



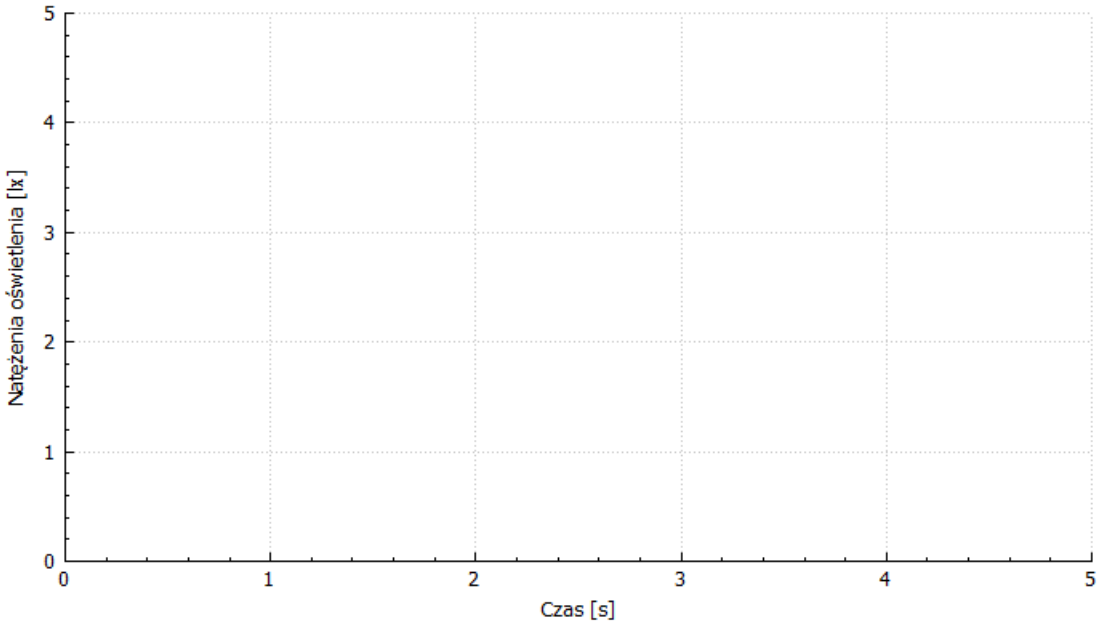
Beam cone



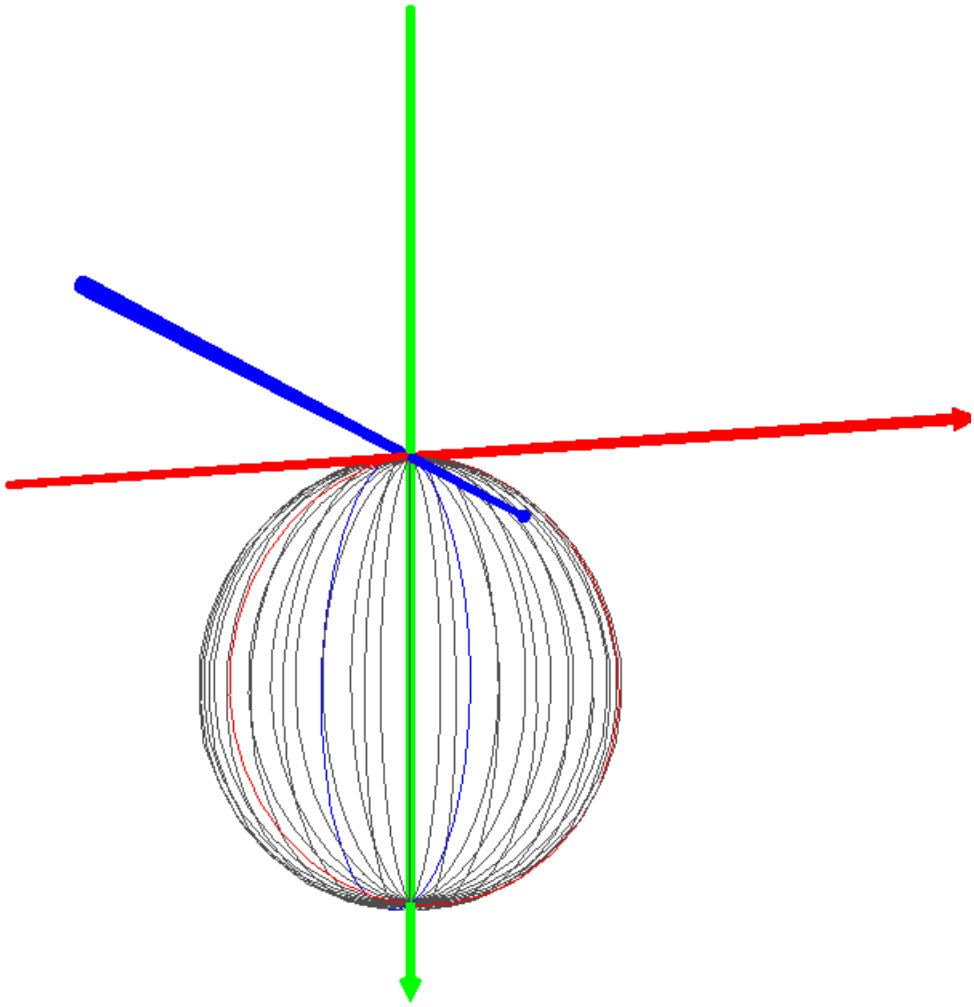
Distance [m]	Max illumince [lx]	Diameter [m]
1	469,8190	3,033
2	117,4548	6,066
3	52,2021	9,099
4	29,3637	12,133
5	18,7928	15,166

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	113,2°	5,0°	-56,6°	56,6°
0-180°	112,4°	5,0°	-56,2°	56,2°
90-270°	113,8°	5,0°	-56,9°	56,9°

Stabilization



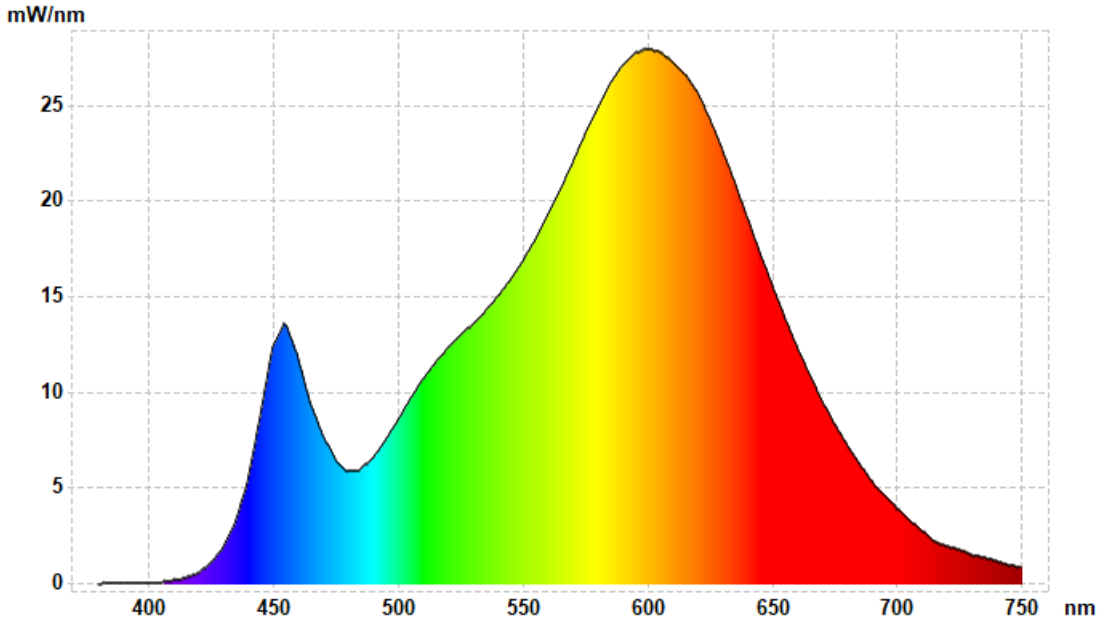
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2°observer		**CIE 1964 10°observer**		**Other**	
x	**0,4384**	x	0,4453	**CCT**	**2976**
y	**0,4042**	y	0,4002	Chromaticity Error	0,003
Flux	**1355,77 lm**	u'	0,2577	Color Peak	600,85
		v'	0,5211	Color Peak Value	27,92
		L	100,00	Color Dominant	583,0
u'	0,2515	a	27,40	Luminous Intensity	0,00
v'	0,5216	b	57,78	Purity	
L	100,00	X	1585,33	Radiometric	4,0523
a	22,50	Y	1424,82	PAR	-
b	58,01	Z	549,75	PPFD	-
Rendering Indices				**Metamerism Indices**	
Ra	**80,8**	**Ra**	**80,8**	Mivis	2,6
R1	79,0	R8	55,2	Miuv	3,9
R2	90,9	R9	-0,1	**Binning**	
R3	95,0	R10	79,2	Binning	3000K
R4	77,3	R11	75,7	Brightness	
R5	79,2	R12	69,6		
R6	88,8	R13	81,9		
R7	80,8	R14	97,9		

Report Wizard Sample Description Lines

Client name: *LED line®*
Model name: *EasyFix AURA smart 18W - 6500K*
Item No: *470652*
Serial No.: *68812*
Made by: *Radosław Kośnik*

Eulumdat Fields

Company: *LED line®*
Report number: *B1176*
LuminaireName: *EasyFix AURA smart 18W - 6500K*
LuminaireNumber: *470652*
FileName: *B1176_470652_68812_G_20200212_R_O_C*
Date: *2020-02-12*

Dimensions of luminaire

Length: *217* mm
Width: *0* mm
Height: *15* mm

Dimensions of luminous area

Length: *173* 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:	*1414,34 lm*
Color temperatur:	*6339.05 K*
Color rendering index:	*83,58*
Wattage including ballast:	*18,44 W*

Utilization factors:

k = 0.60	*0,278*
k = 0.80	*0,366*
k = 1.00	*0,443*
k = 1.20	*0,519*
k = 1.50	*0,578*
k = 2.00	*0,667*
k = 2.50	*0,717*
k = 3.00	*0,756*
k = 4.00	*0,808*
k = 5.00	*0,841*

Electrical parameters

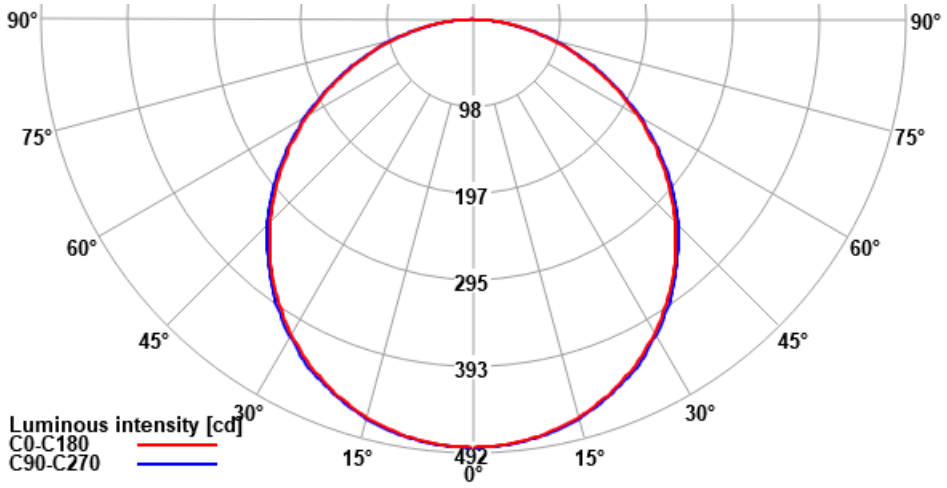
Power source:	*IT7321 300VA*
U	*= 229,983 V*
I	*= 0,144 A*
P	*= 18,437 W*
Power factor	*= 0,554*

Temperature = 23.6 C

Goniometric measurement results

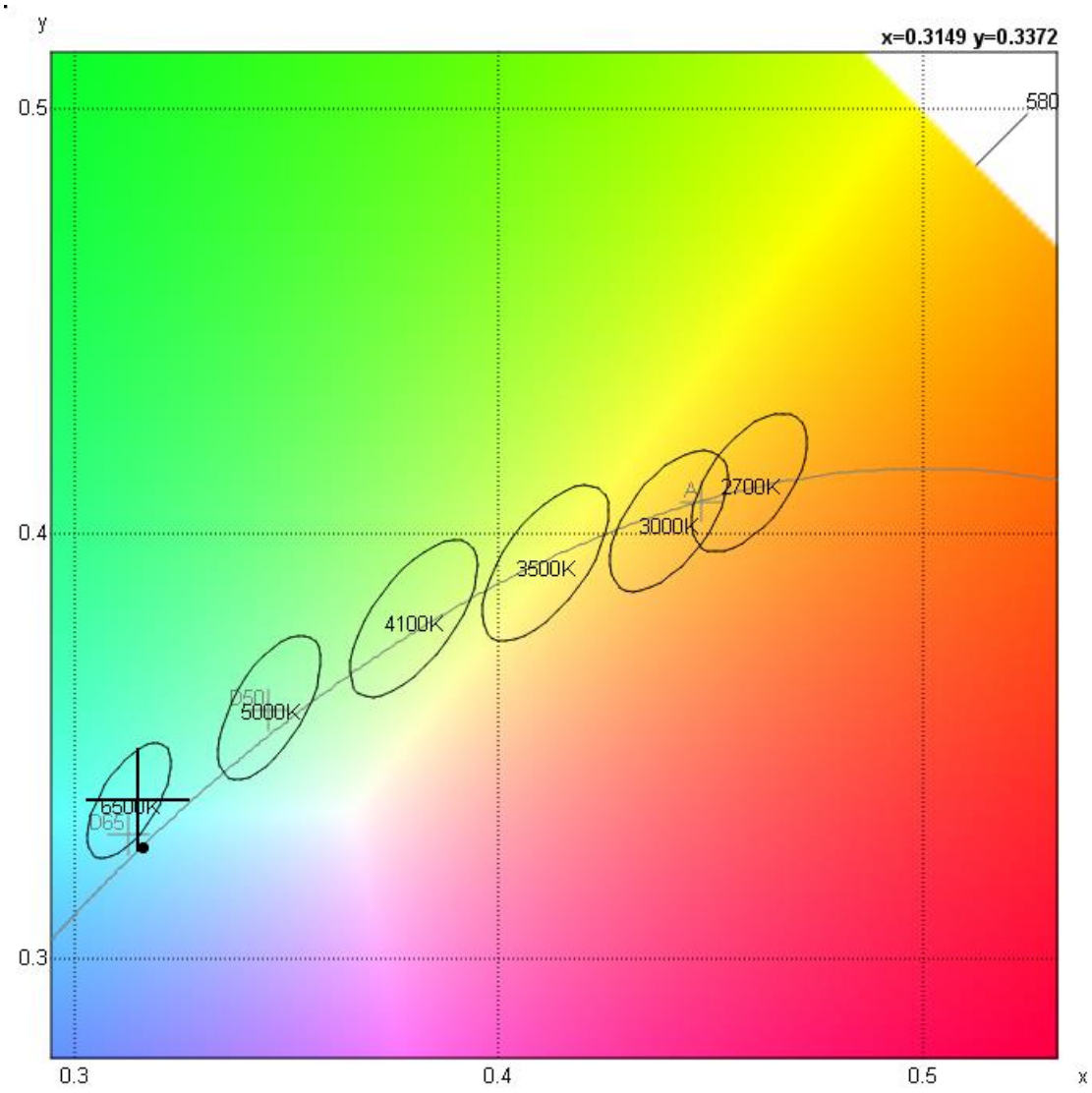
Total flux (utilized luminarie flux)	*1414,34 lm*
Flux in lower hemisphere	*100,00 %*
Flux in upper hemisphere	*-0,00 %*
Maximium luminous intensity	*486,78 cd*
Light output ratio (LOR)	*100,00 %*
Luminous efficacy	*76,70 lm/W*

Light intensity distribution diagram

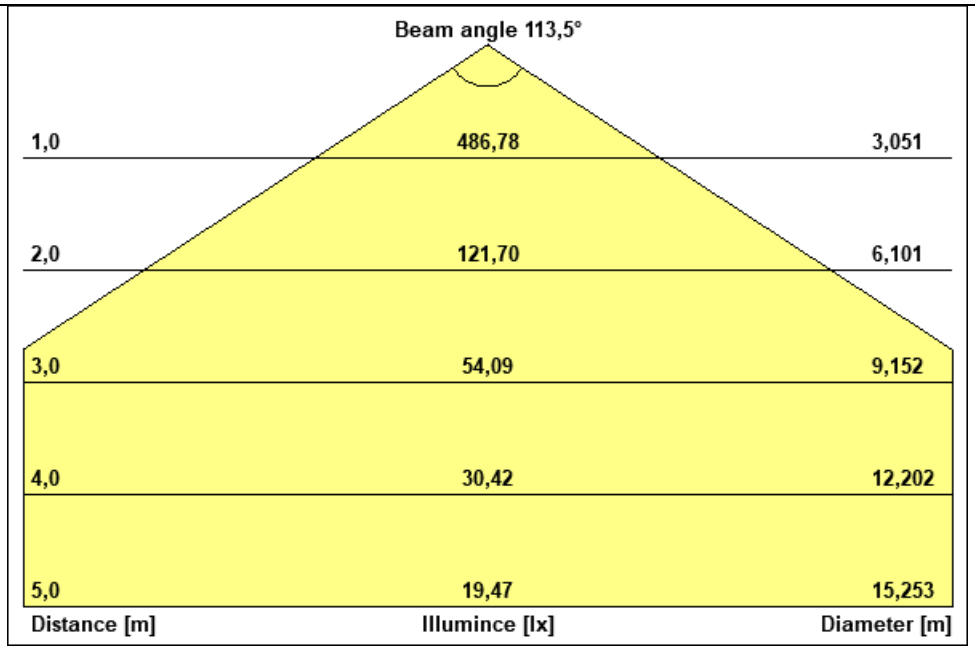


CIE 1931 diagram

x	0,3149
y	0,3372
Angular Colour Uniformity	0,0000
Binning	6500K



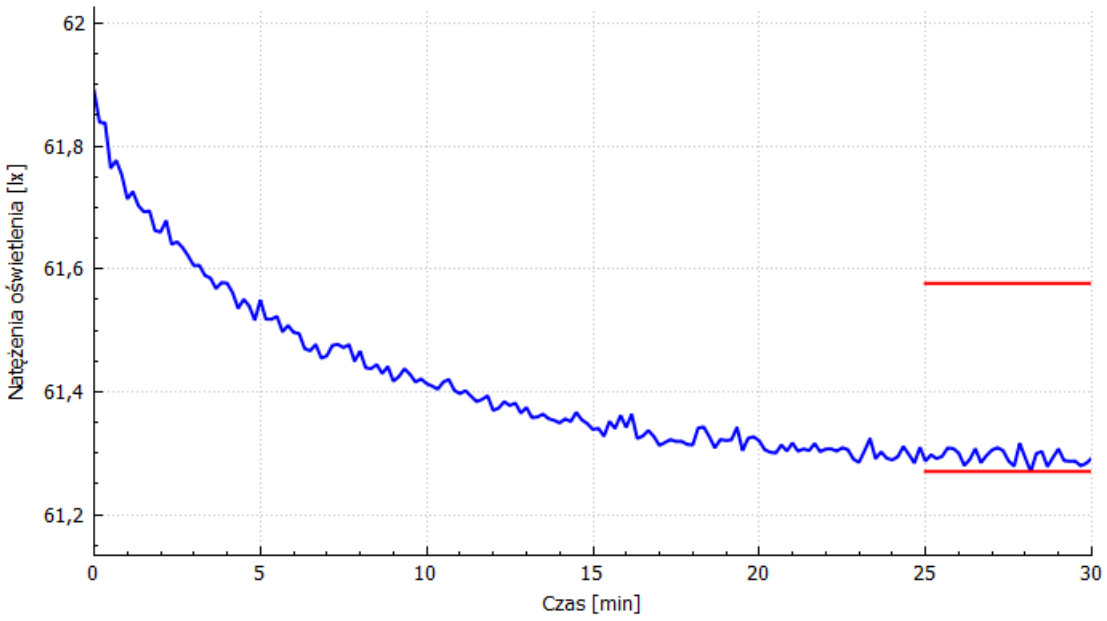
Beam cone



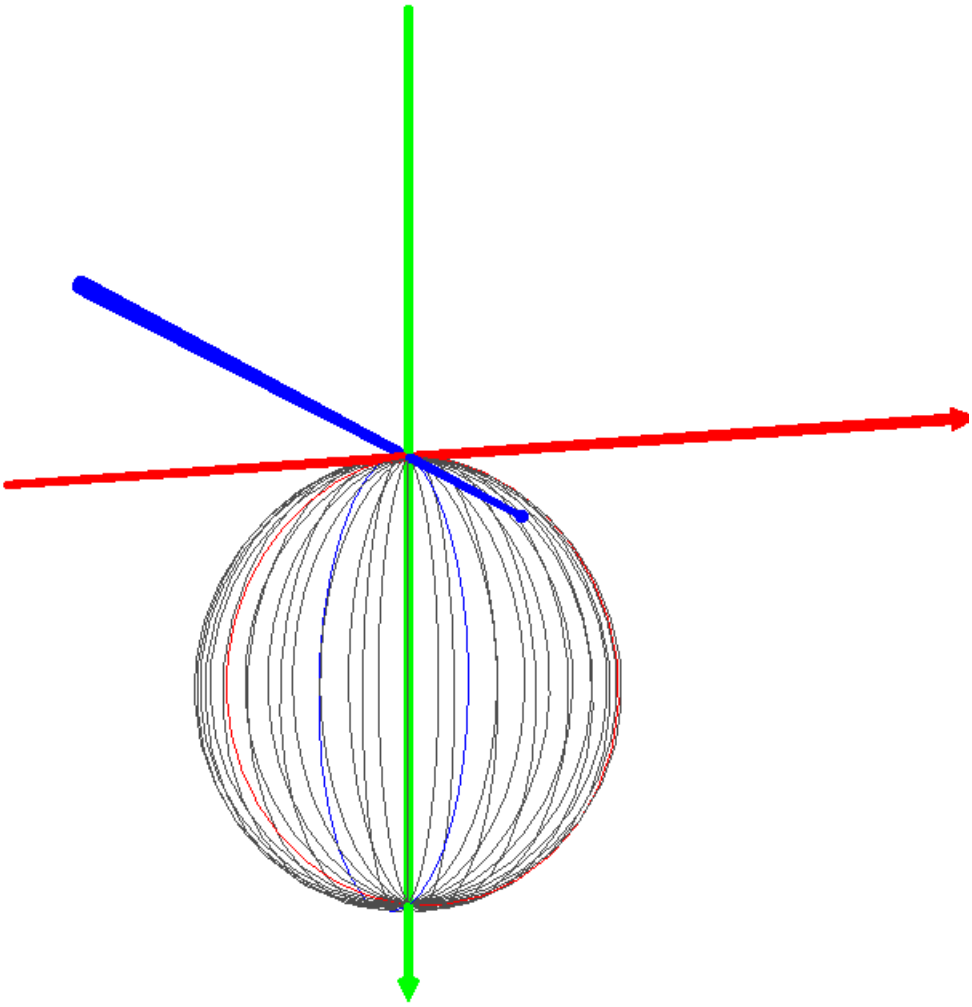
Distance [m]	Max illumince [lx]	Diameter [m]
1	486,7840	3,051
2	121,6960	6,101
3	54,0871	9,152
4	30,4240	12,202
5	19,4714	15,253

C plane	Beam angle	Gamma max	Start [°]	Stop [°]
Average	113,5°	5,0°	-56,8°	56,8°
0-180°	113,0°	5,0°	-56,5°	56,5°
90-270°	113,8°	5,0°	-56,9°	56,9°

Stabilization



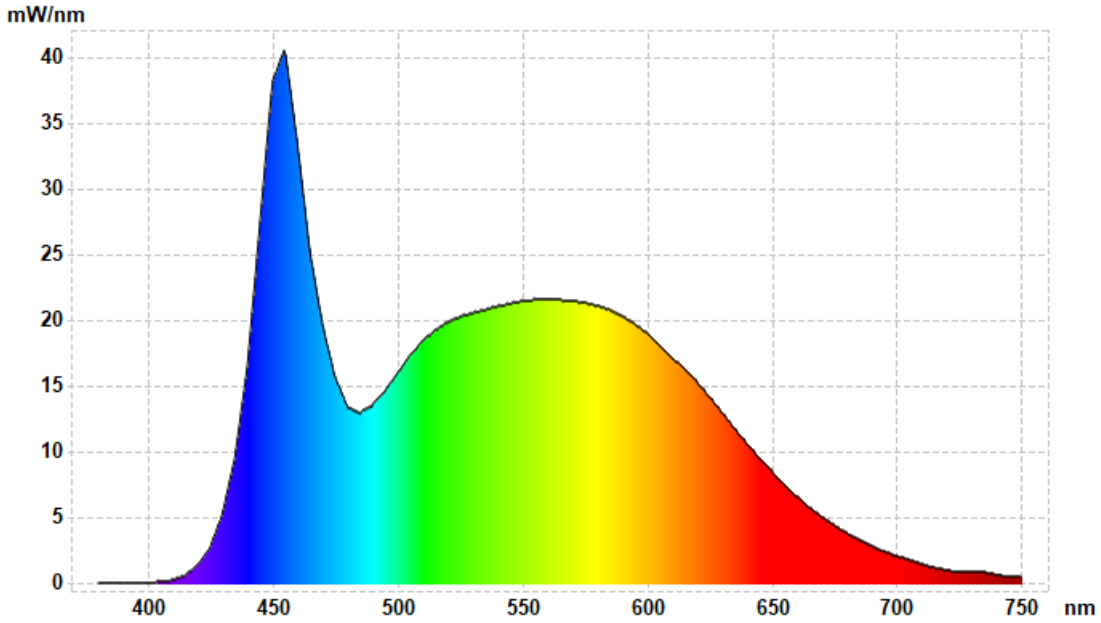
3D Chart



Legend

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

Spectral distribution



Results					
CIE 1931 2°observer		**CIE 1964 10°observer**		**Other**	
x	**0,3149**	x	0,3203	**CCT**	**6339**
y	**0,3372**	y	0,3388	Chromaticity Error	0,003
Flux	**1414,34 lm**	u'	0,1994	Color Peak	452,76
		v'	0,4746	Color Peak Value	41,11
		L	100,00	Color Dominant	494,4
u'	0,1963	a	-0,48	Luminous Intensity	0,00
v'	0,4730	b	4,26	Purity	
L	100,00	X	1451,60	Radiometric	4,5153
a	-2,93	Y	1535,45	PAR	-
b	3,55	Z	1544,58	PPFD	-
Rendering Indices				**Metamerism Indices**	
Ra	**83,6**	**Ra**	**83,6**	Mivis	2,2
R1	81,2	R8	68,5	Miuv	5,6
R2	89,9	R9	6,2	**Binning**	
R3	94,0	R10	75,3	Binning	6500K
R4	80,8	R11	79,9	Brightness	
R5	81,5	R12	58,9		
R6	84,9	R13	84,0		
R7	87,9	R14	97,1		