

Light efficiency:

80 Lumen/Watt

Light quality:

CRI: 82,6

Color temperature:

3000 K

Output: 421 lm

Peak: 368 cd

Power: 5,3 W

PF: 0,76



Tracking number: [VT240919-008556](#)

Product name:

SGA06D

Item number:

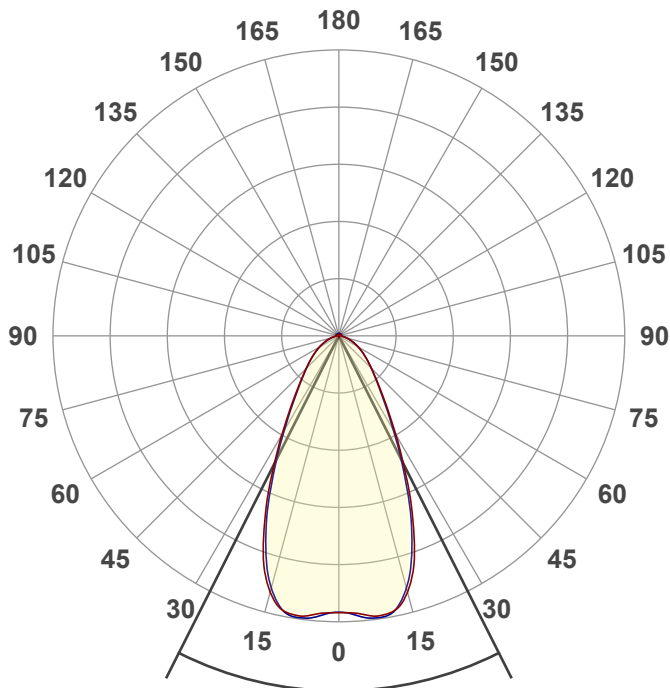
SGA06D

Date and time:

19-9-2024 10:51:28

Description:

GU10 | SPOT | DIM2WARM | 5.5W



Beam angle

53,5°

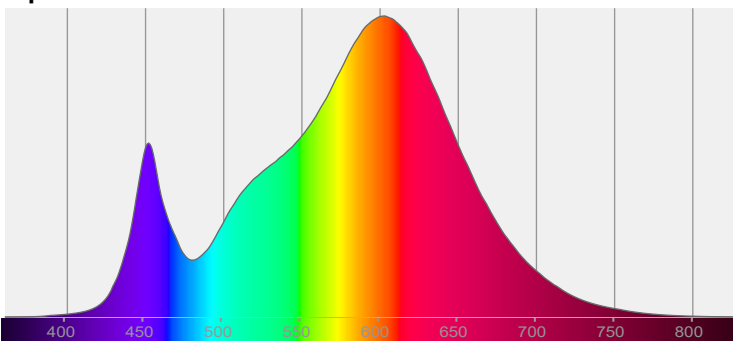


CIE 1931

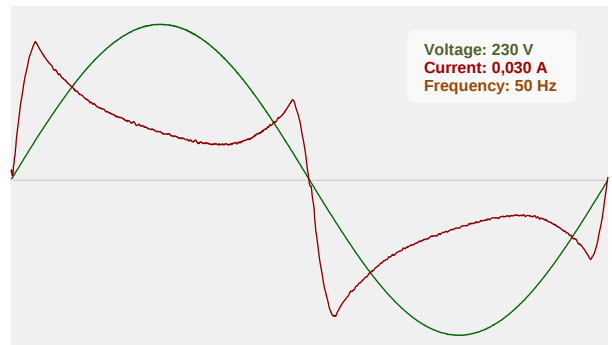
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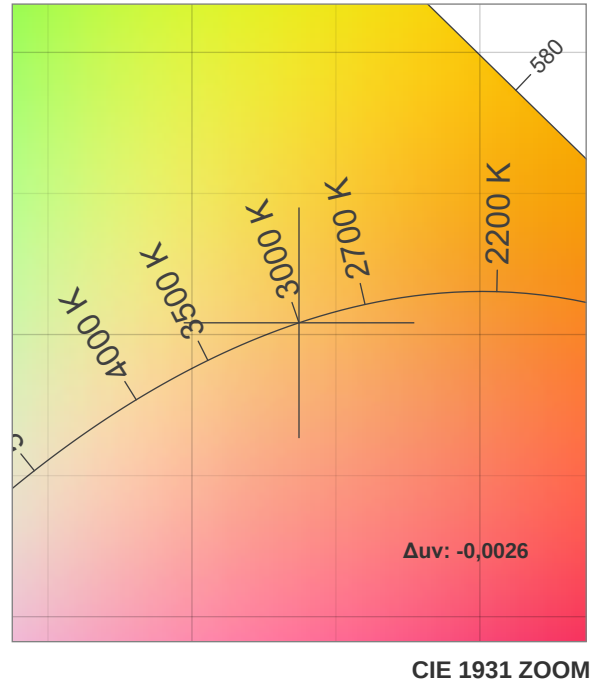
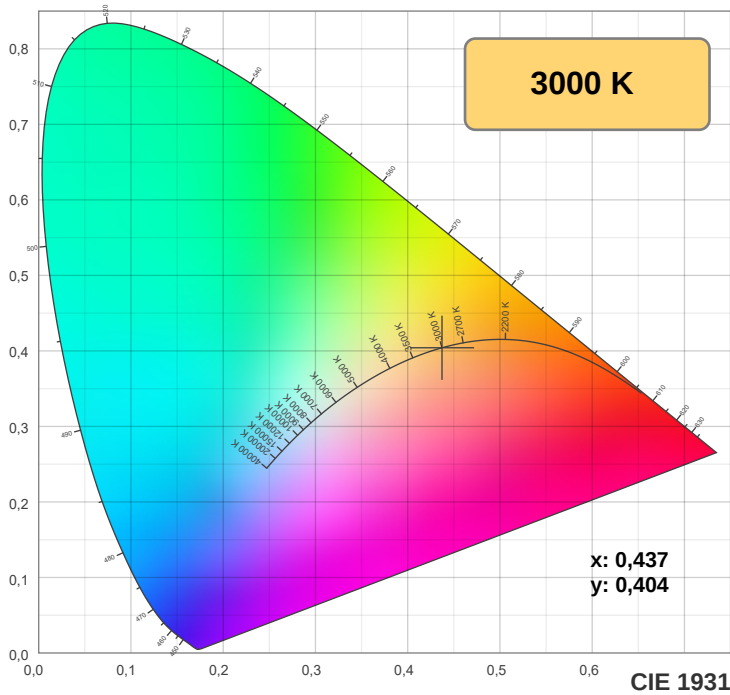
y: 0,404

Spectra

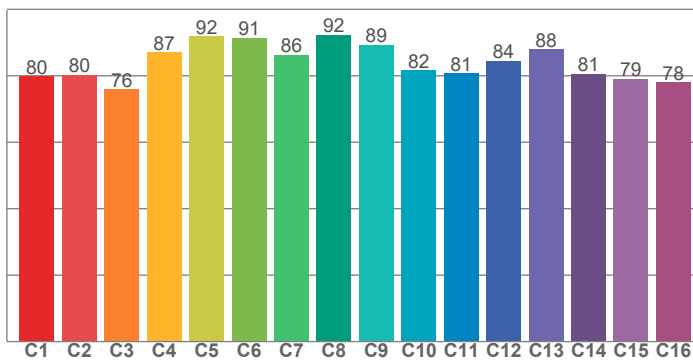


Power

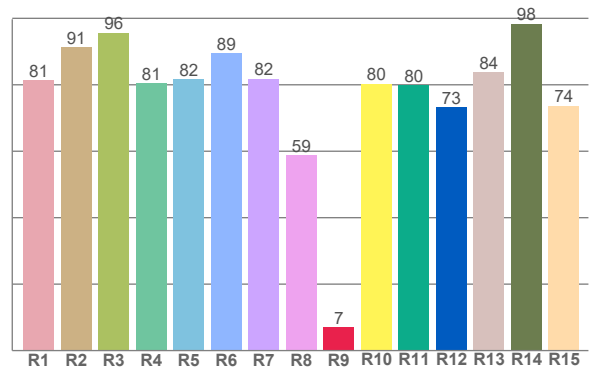




TM-30: 84,2



CRI: 82,6 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
81,3	91,4	95,7	80,5	81,6	89,4	81,8	58,8	7,1	80,4	80,0	73,3	83,8	98,4	73,7

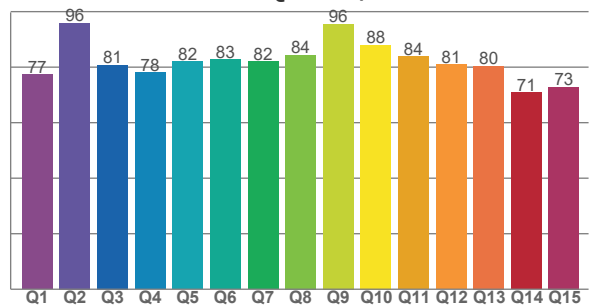
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79,9	80,2	75,9	87,0	91,9	91,4	86,3	92,4	89,4	81,7	80,7	84,5	88,0	80,5	79,1	78,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77,4	95,9	80,8	78,1	82,0	82,8	82,0	84,3	95,6	88,0	83,9	80,9	80,5	70,8	72,8

CQS: 81,0



Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3000 K	82,6	7,1	84,2	97,0	81,0	0,437	0,404	0,251	0,348	-0,0026

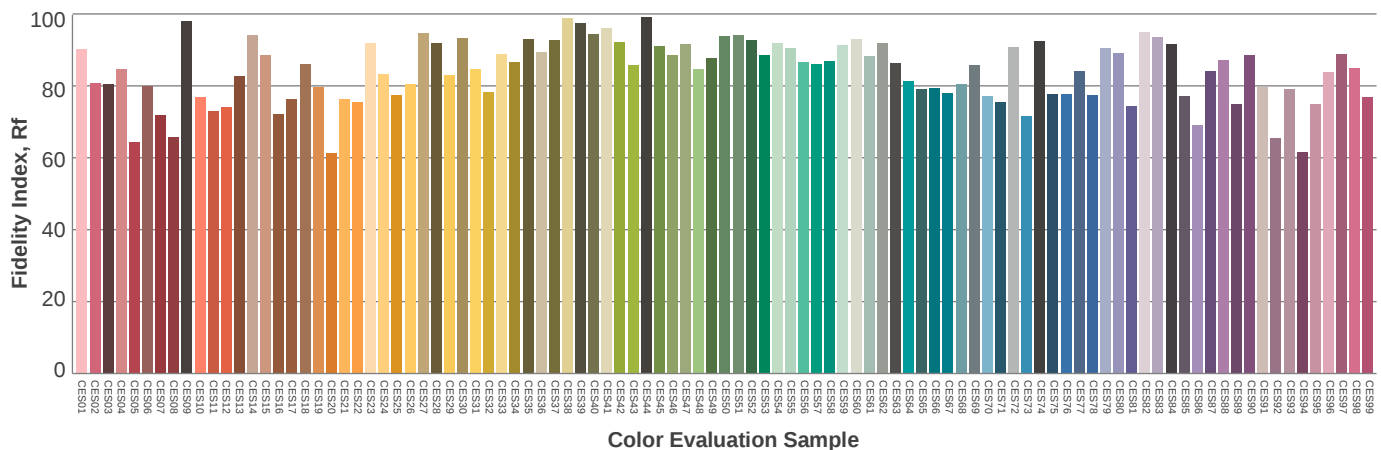
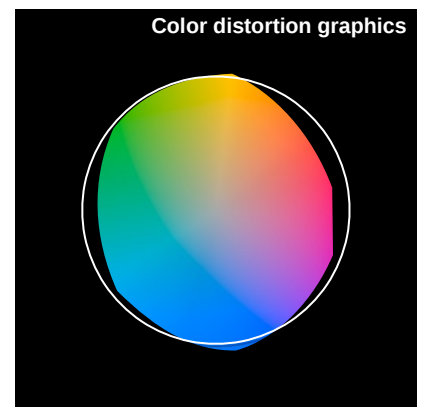
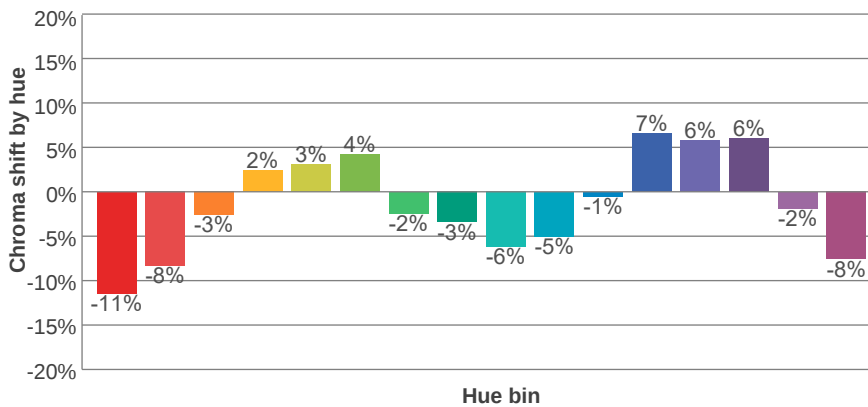
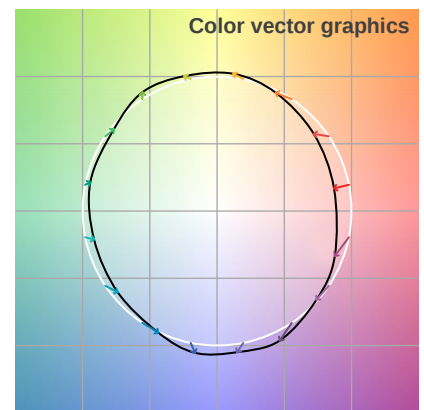
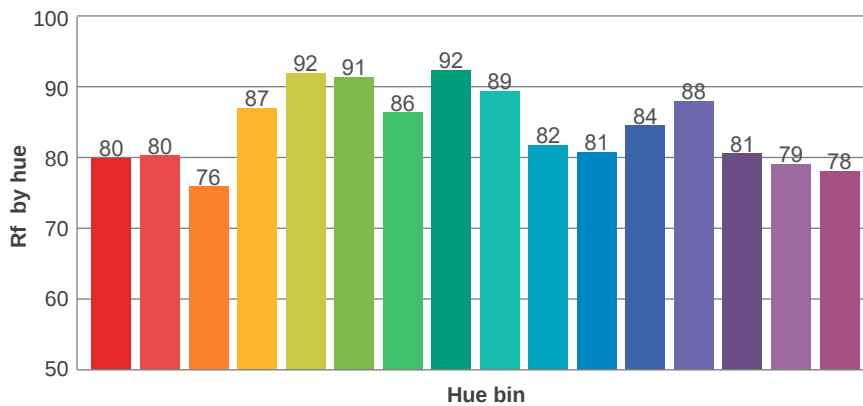
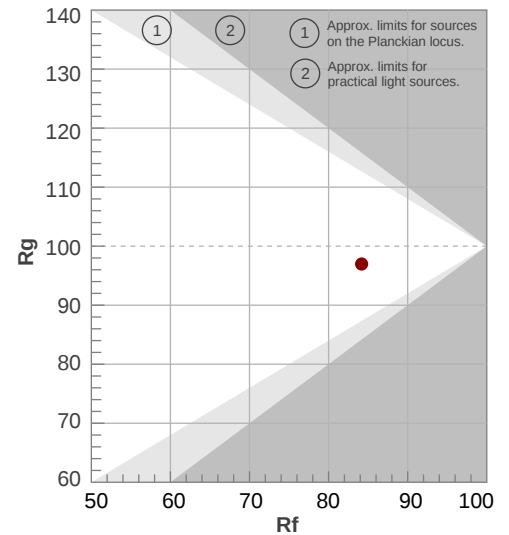
Rf 84,2

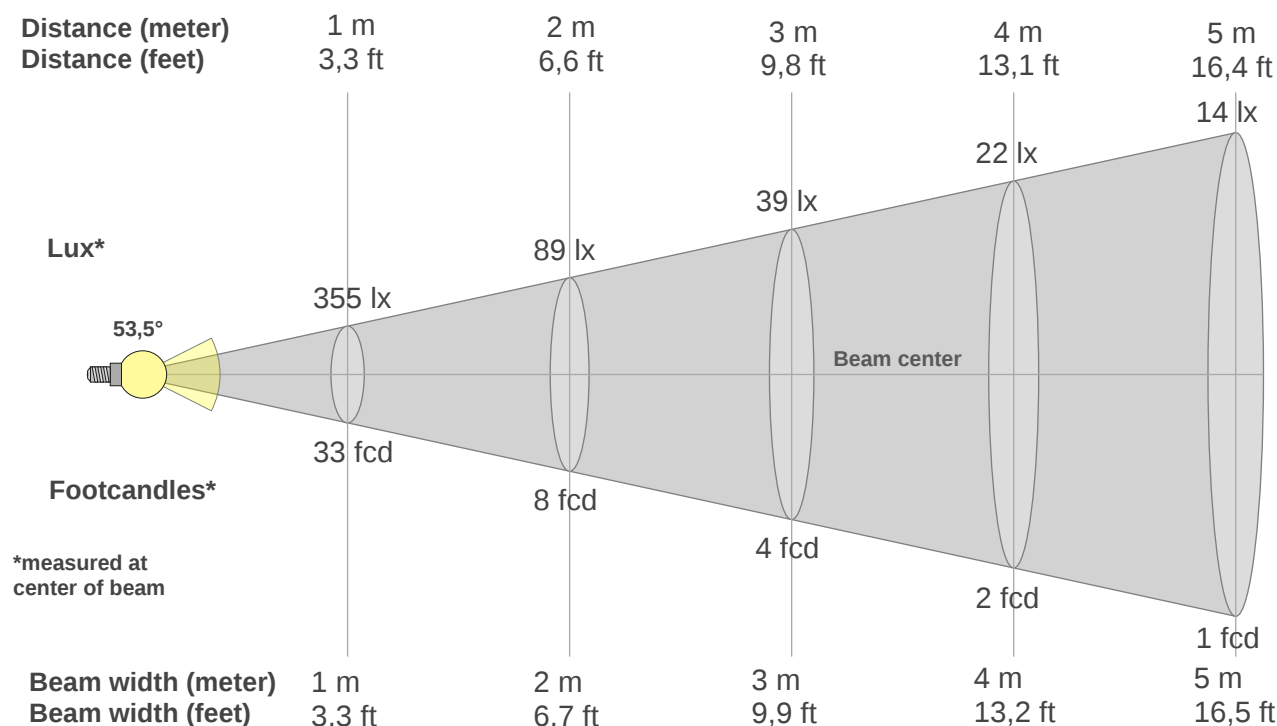
Fidelity index Rf

Rg 97,0

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	80	-11%	0%
2	80	-8%	8%
3	76	-3%	13%
4	87	2%	8%
5	92	3%	4%
6	91	4%	-3%
7	86	-2%	-8%
8	92	-3%	-3%
9	89	-6%	3%
10	82	-5%	9%
11	81	-1%	14%
12	84	7%	4%
13	88	6%	-6%
14	81	6%	-15%
15	79	-2%	-14%
16	78	-8%	-16%




Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	19,7ft	23ft	26,2ft	29,5ft	32,8ft	36,1ft	39,4ft	42,7ft	45,9ft	49,2ft	52,5ft	55,8ft	59,1ft	62,3ft	65,6ft
355lx	89lx	39lx	22lx	14lx	10lx	7lx	6lx	4lx	4lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx
33fcd	8,3fcd	3,7fcd	2,1fcd	1,3fcd	0,9fcd	0,7fcd	0,5fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
355	358	358	336	281	210	148	105	77	60	47	38	29	22	16	10	7	4	3	3
100%	101%	101%	95%	79%	59%	42%	29%	22%	17%	13%	11%	8%	6%	4%	3%	2%	1%	1%	1%

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
355	361	360	331	272	202	142	101	76	59	47	37	28	21	15	10	6	4	3	3
100%	102%	101%	93%	77%	57%	40%	28%	21%	17%	13%	10%	8%	6%	4%	3%	2%	1%	1%	1%

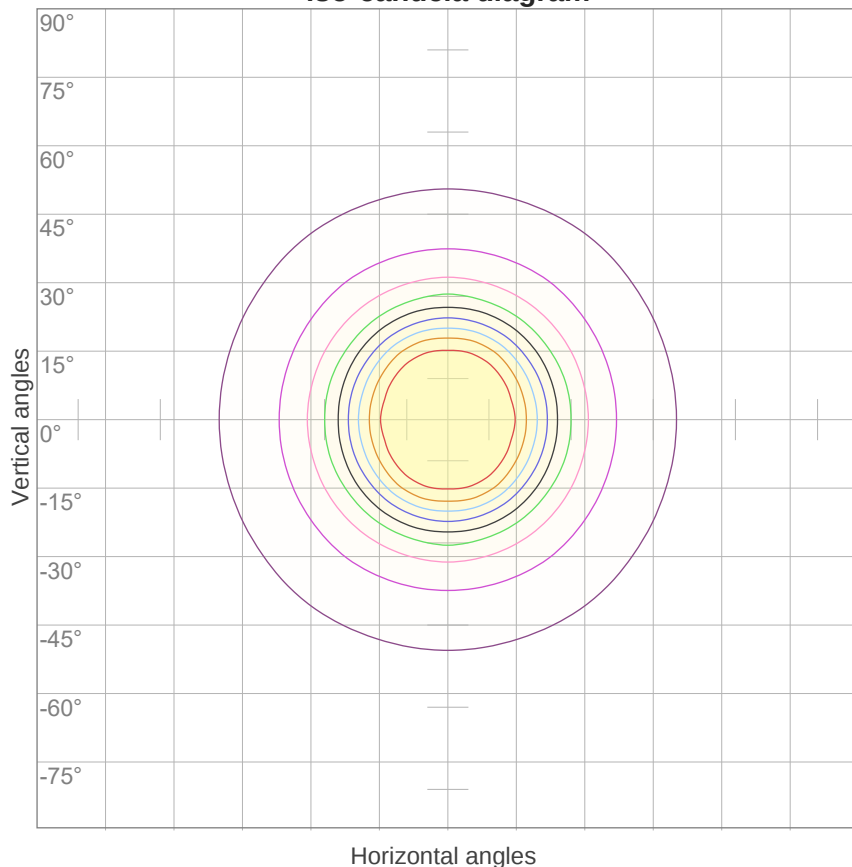
Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
355	358	358	336	281	210	148	105	77	60	47	38	29	22	16	10	7	4	3	3
100%	101%	101%	95%	79%	59%	42%	29%	22%	17%	13%	11%	8%	6%	4%	3%	2%	1%	1%	1%

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
355	361	360	331	272	202	142	101	76	59	47	37	28	21	15	10	6	4	3	3
100%	102%	101%	93%	77%	57%	40%	28%	21%	17%	13%	10%	8%	6%	4%	3%	2%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,5°	110,7°	152,7°	87,0%	74,0%

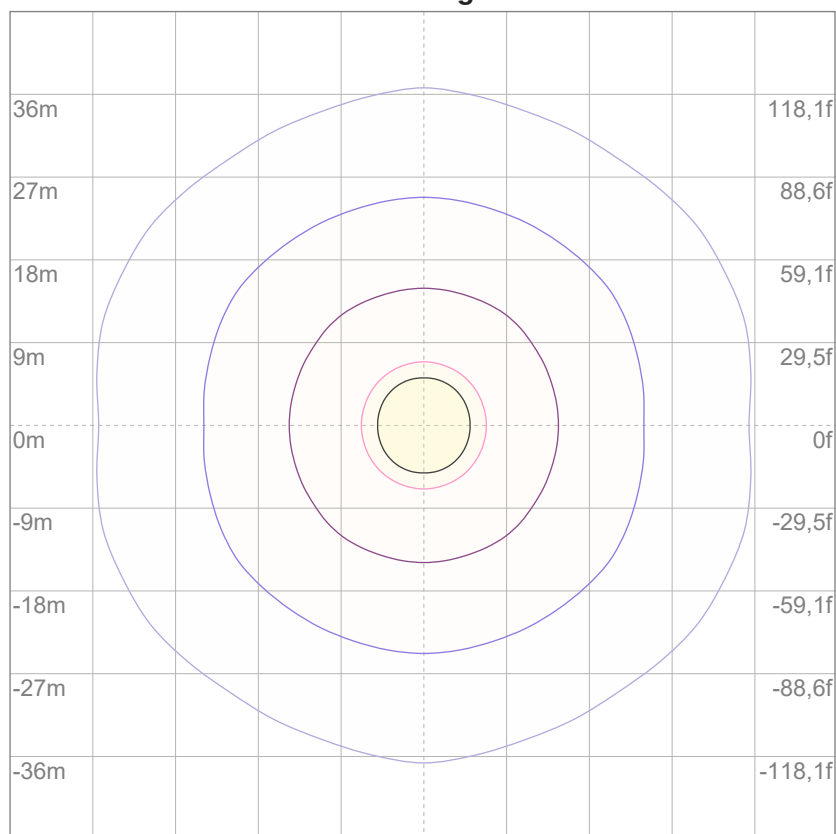
iso-candela diagram


10%	36 cd
20%	71 cd
30%	107 cd
40%	142 cd
50%	178 cd
60%	213 cd
70%	249 cd
80%	284 cd
90%	320 cd

Conditions:

Number of c-planes: 20

Candela at center: 355 cd

iso-lux diagram


3%	0,107 lx
5%	0,178 lx
10%	0,355 lx
30%	1,07 lx
50%	1,78 lx

Conditions:

Number of c-planes: 20

Lux at center: 3,55 lx

*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

Glare evaluation according to UGR

p Ceiling	70	70	50	50	30	70	70	50	50	30
p Walls	50	30	50	30	30	50	30	50	30	30
p Floor	20	20	20	20	20	20	20	20	20	20
Room size X Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variation of the observer position for the luminaire distance S										
n/a	n/a					n/a				
n/a	n/a					n/a				
n/a	n/a					n/a				
CIE 117-1995. Corrected glare indices referring to 421 lm total luminous flux										

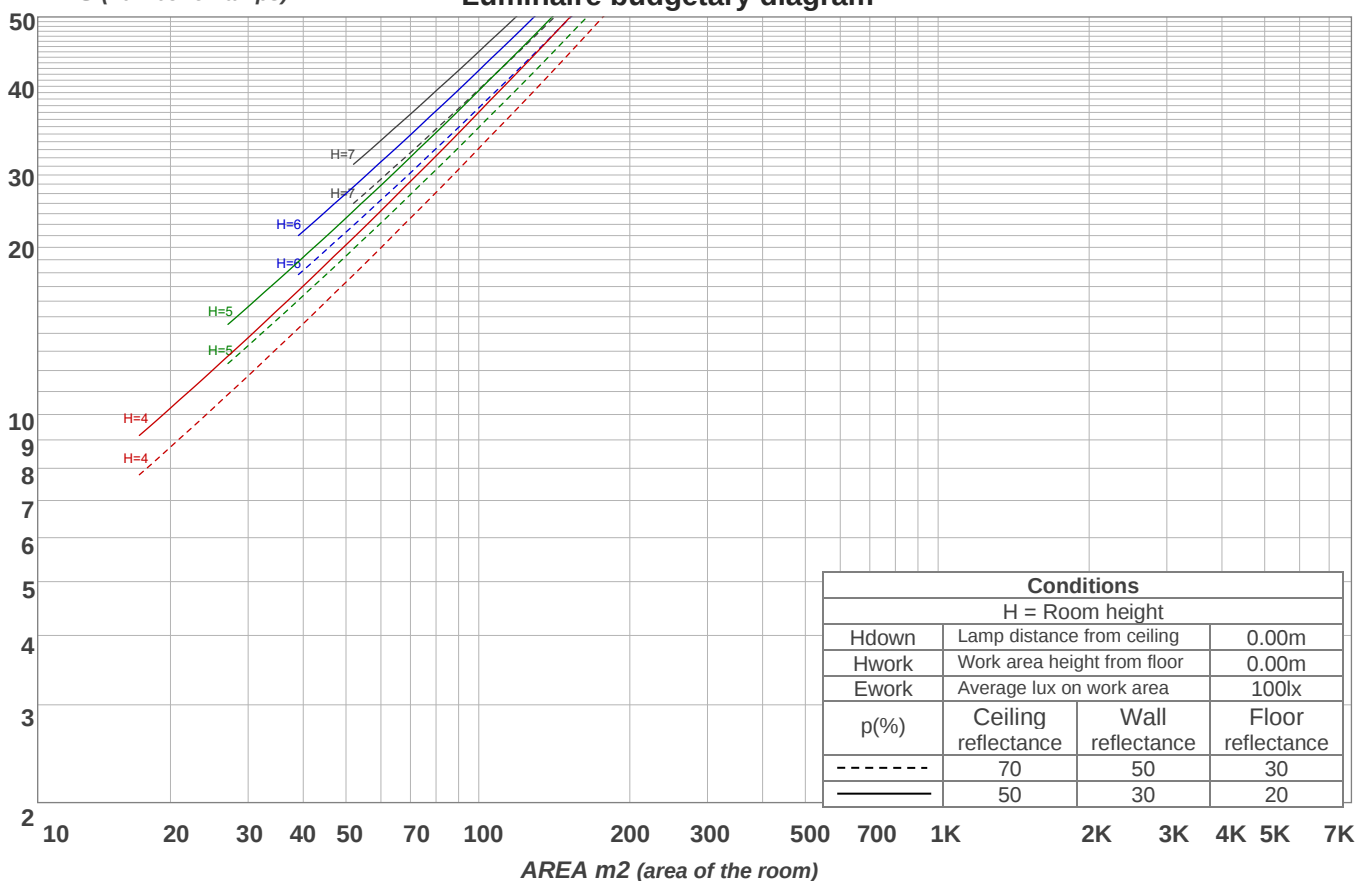
UGR data could not be calculated due to missing dimensions. Goto Edit->Photometric->Dimensions and set the fixture/lamp dimensions.

Coefficients of Utilization

Ceiling reflectance	80				70				50			30			10			0
Wall reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0
RCR	(RCR: Room Cavity Ratio) Room Values are expressed as percentage of Lumens delivered to the task surface																	
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96
1	110	107	104	101	107	104	101	99	99	97	95	95	93	91	91	89	88	86
2	103	97	92	87	100	95	90	86	91	87	83	87	84	81	83	81	79	76
3	96	88	82	77	94	86	81	76	83	78	74	80	76	73	77	74	71	69
4	90	81	74	69	88	79	73	68	77	71	67	74	69	66	71	68	64	62
5	85	75	67	62	83	73	67	62	71	65	61	69	64	60	67	62	59	57
6	80	69	62	57	78	68	61	56	66	60	56	64	59	55	62	58	54	52
7	75	64	57	52	73	63	57	52	62	56	51	60	55	51	58	54	50	48
8	71	60	53	48	69	59	53	48	58	52	48	56	51	47	55	50	47	45
9	67	56	49	45	66	56	49	45	54	48	44	53	48	44	52	47	44	42
10	64	53	46	42	63	52	46	42	51	45	41	50	45	41	49	44	41	39

LAMPS (number of lamps)

Luminaire budgetary diagram



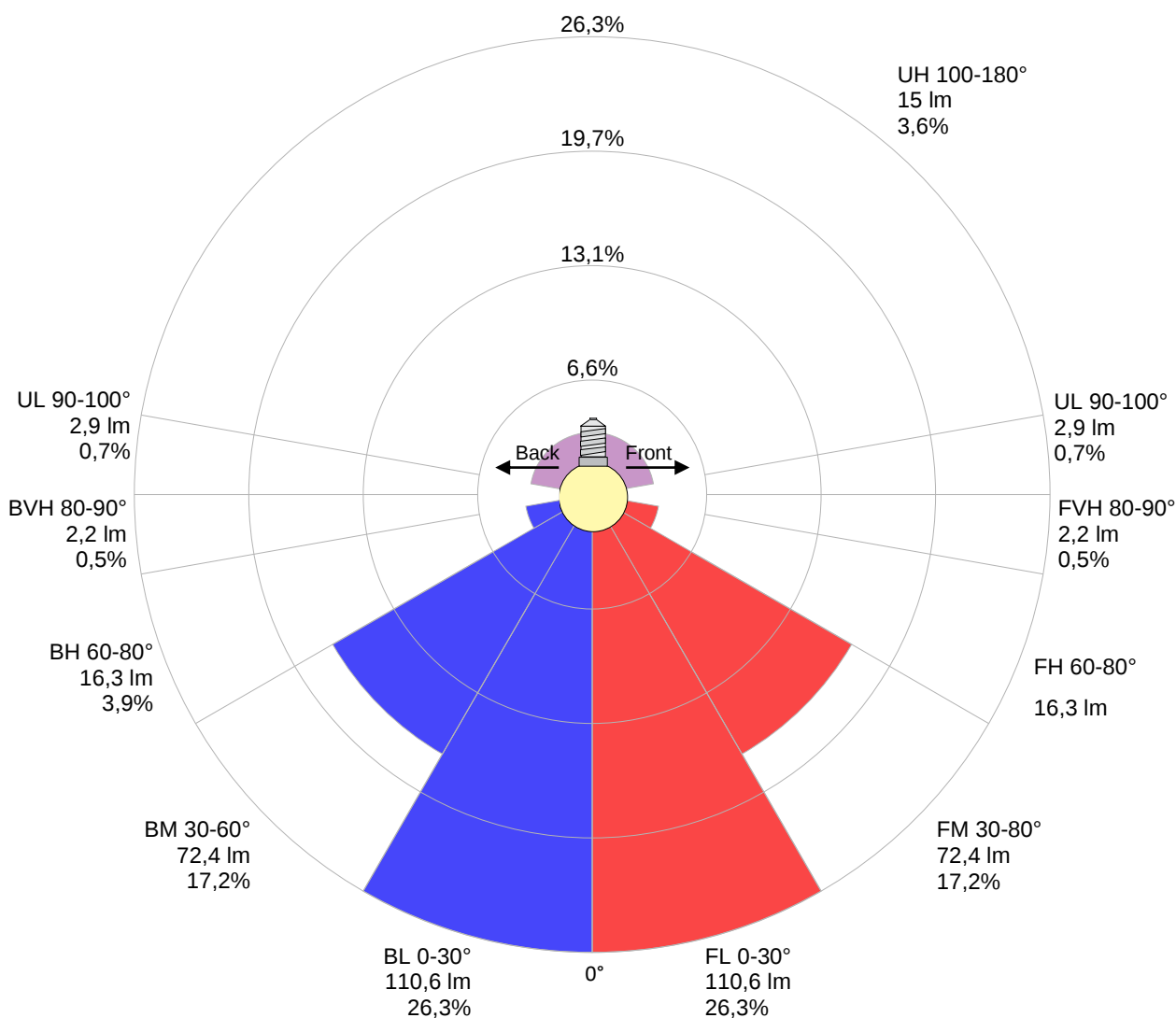
Zonal Lumen Summary

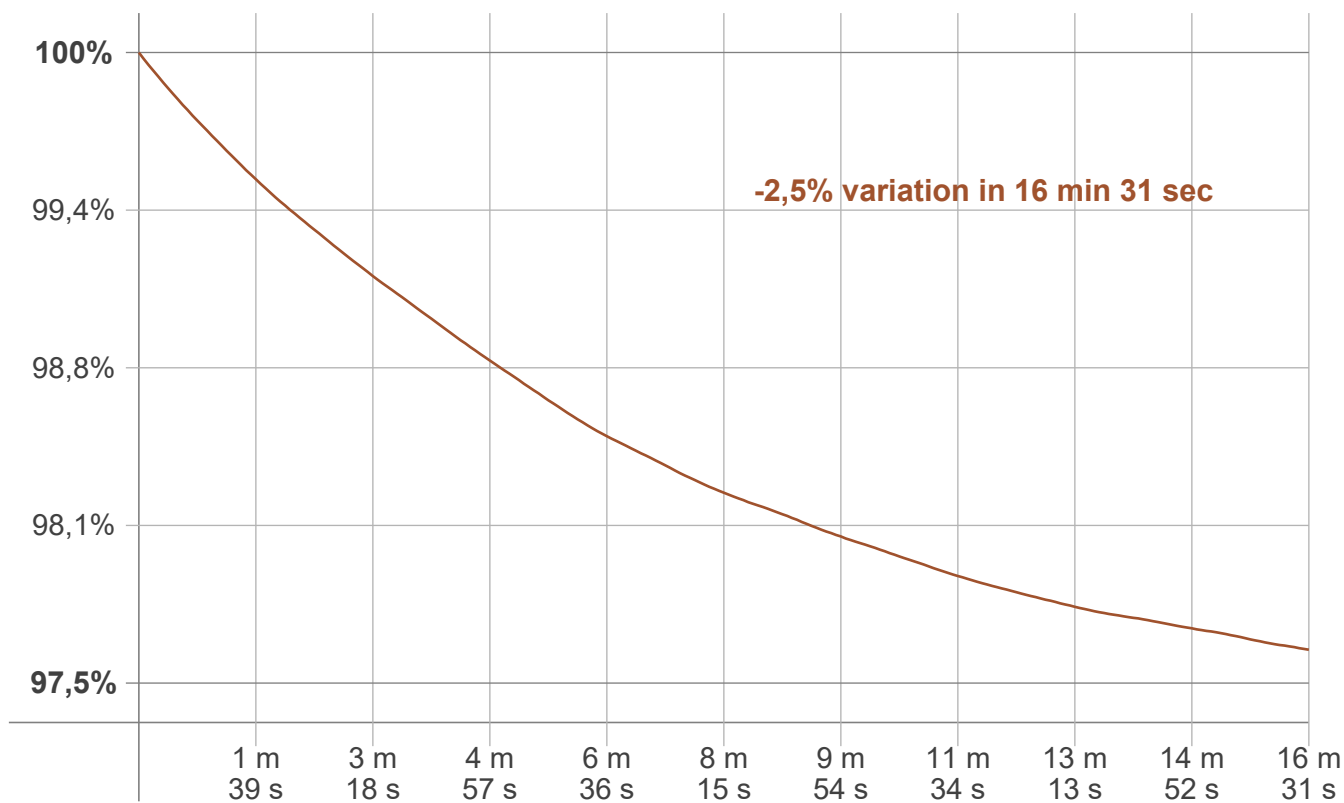
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	92,8 lm	94,3 lm	64,9 lm	46,1 lm	33,4 lm	21,5 lm	11,0 lm	4,40 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
2,88 lm	3,25 lm	3,42 lm	2,92 lm	2,00 lm	1,68 lm	1,30 lm	0,488 lm	0,019 lm

LCS table

BUG rating:	B1 U2 G0	
Forward light	Lumens	Lumens %
Low(0-30):	110,6	26,3%
Medium(30-60):	72,4	17,2%
High(60-80):	16,3	3,9%
Very high(80-90):	2,2	0,5%
Back light		
Low(0-30):	110,6	26,3%
Medium(30-60):	72,4	17,2%
High(60-80):	16,3	3,9%
Very high(80-90):	2,2	0,5%
Uplight		
Low(90-100):	2,9	0,7%
High(100-180):	15	3,6%

LCS graph



Warmup curve

Warmup result

Warmup time:	Lamp stabilized in 16 min 31 sec
Warmup variation	-2,5%

Warmup conditions

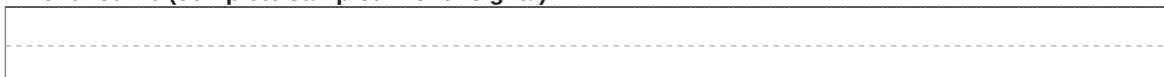
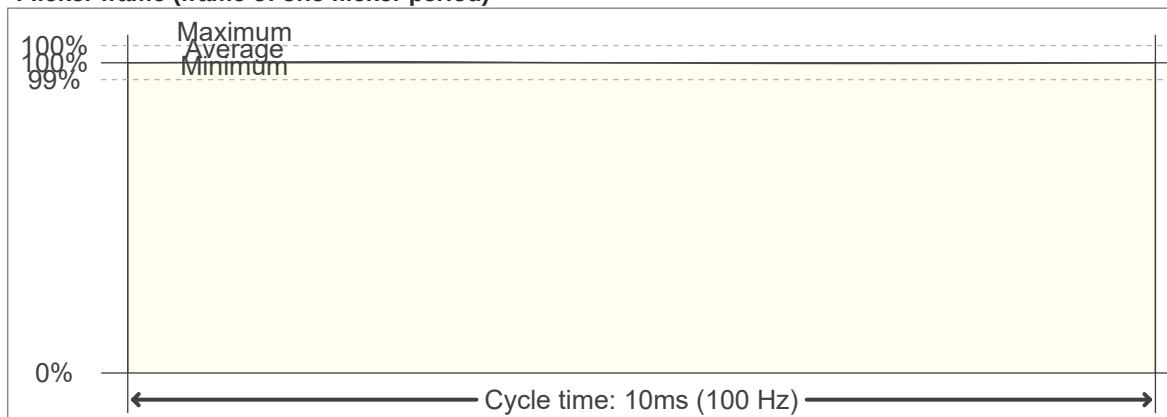
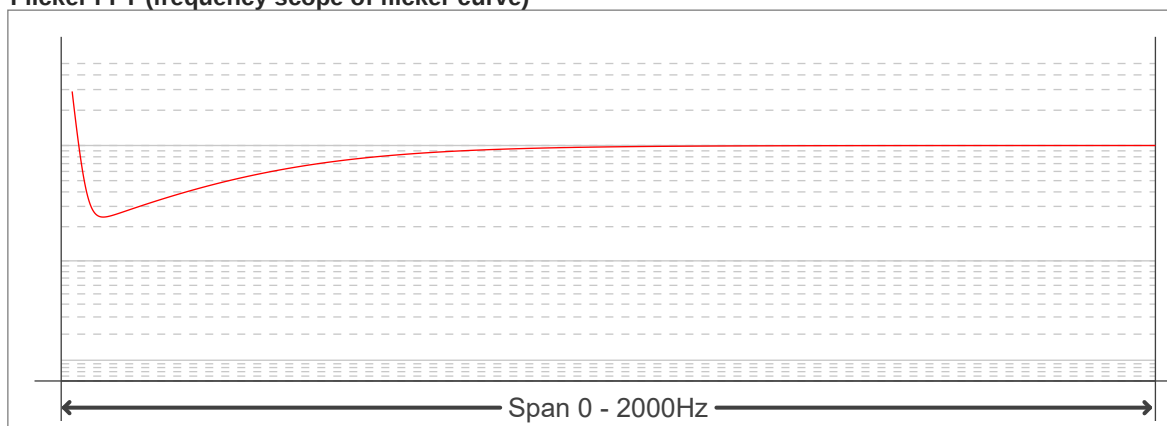
Stable period:	15 min
Stable change max:	2,0%
Minimum time:	15 min

Color temperature change

CCT start	CCT change	CCT end
2973 K	+27 K	3000 K

Output change

Output start	Output change	Output end
431 lm	-10 lm	421 lm

Flicker curve (complete sampled flicker signal)

Flicker frame (frame of one flicker period)

Flicker FFT (frequency scope of flicker curve)

Flicker results:

Flicker frequency:		100 Hz	
Flicker index:	0	JA8/10 40Hz	0,01 %
Flicker percentage:	0,35 %	JA8/10 90Hz	0,02 %
SVM: (Visual flicker)	0,01	JA8/10 200Hz	0,32 %
PstLM	0,02	JA8/10 400Hz	0,34 %
Mp	0,01	JA8/10 1000Hz	0,34 %

Flicker conditions:

Sample rate:	20000 samples/second
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