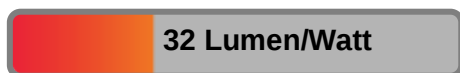


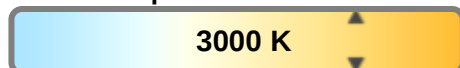
Light efficiency:



Light quality:



Color temperature:

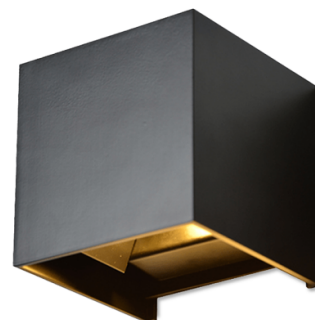


Output: 187 lm

Peak: 102 cd

Power: 5,8 W

PF: 0,75



Tracking number: [VT240909-004252](https://www.visosystems.com/VT240909-004252)

Product name:

274518

Item number:

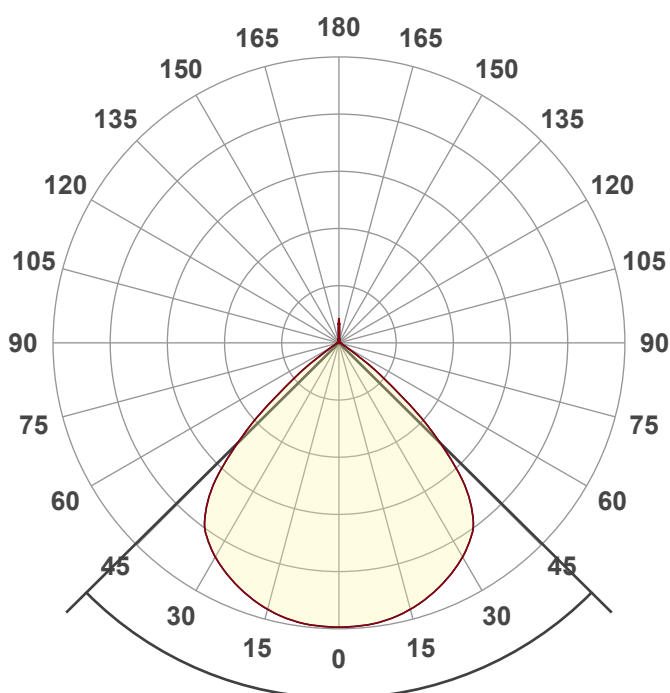
274518

Date and time:

9-9-2024 11:15:10

Description:

LED CUBE | THEBE | 2X3W | PVC | DIM |



Beam angle

90,6°

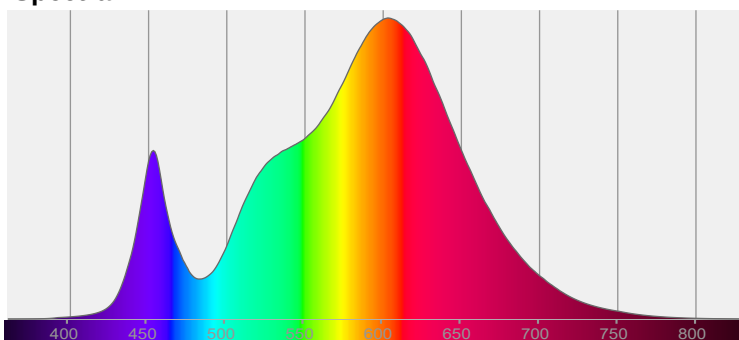


CIE 1931

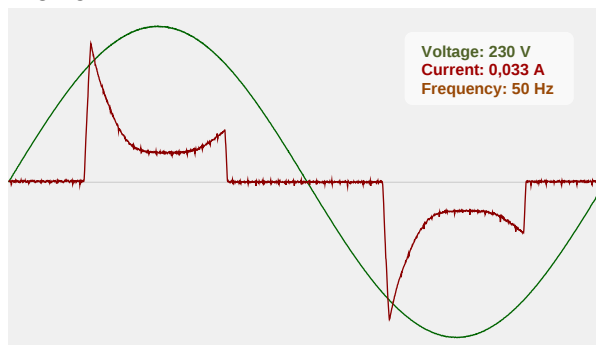
x: 0,437

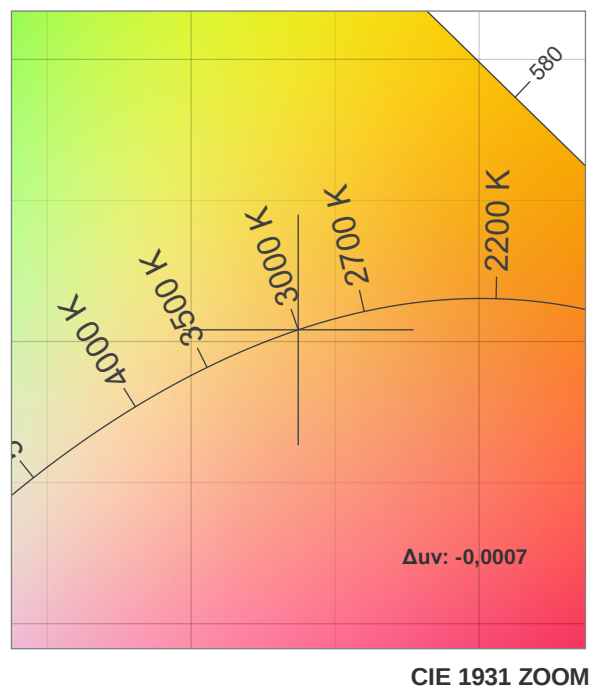
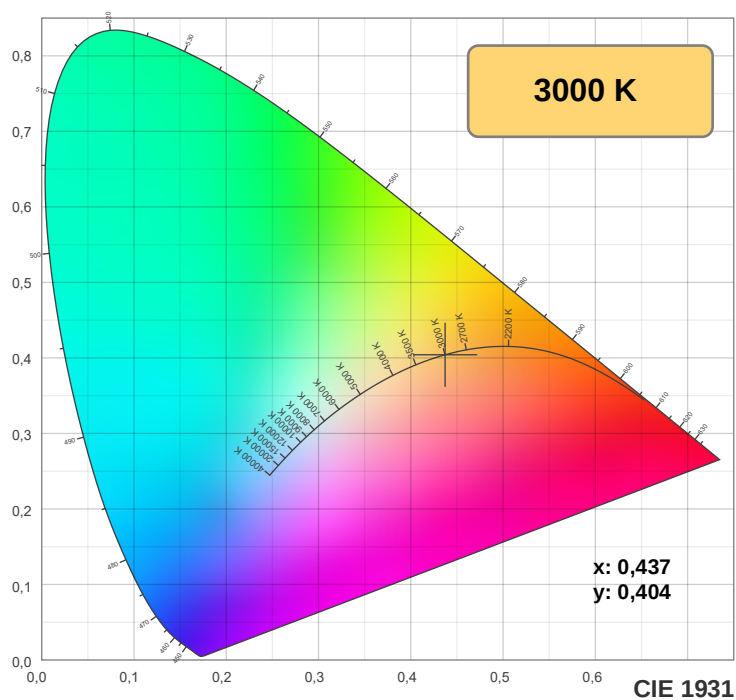
y: 0,404

Spectra

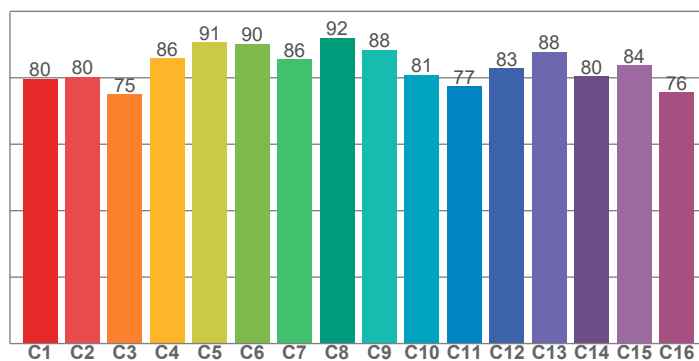


Power

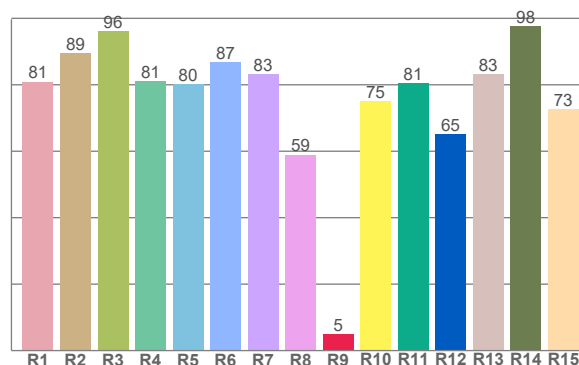




TM-30: 83,2



CRI: 82,1 (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
80,9	89,5	96,0	81,1	80,3	86,8	83,1	58,9	4,9	75,0	80,6	65,1	83,1	97,7	72,6

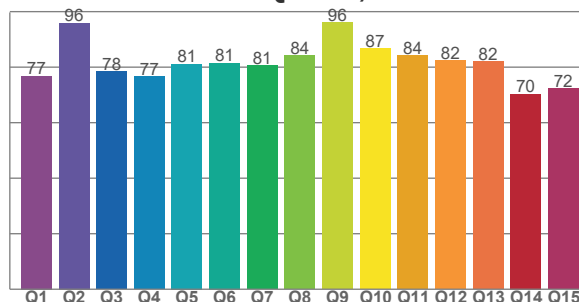
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79,7	80,2	75,1	85,9	90,7	90,2	85,5	92,0	88,4	81,0	77,5	82,8	87,8	80,4	83,7	75,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76,9	95,9	78,5	76,7	81,1	81,4	80,6	84,1	96,2	86,7	84,3	82,4	82,0	70,3	72,4

CQS: 80,5



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	82,1	4,9	83,2	97,2	80,5	0,437	0,404	0,251	0,348	-0,0007

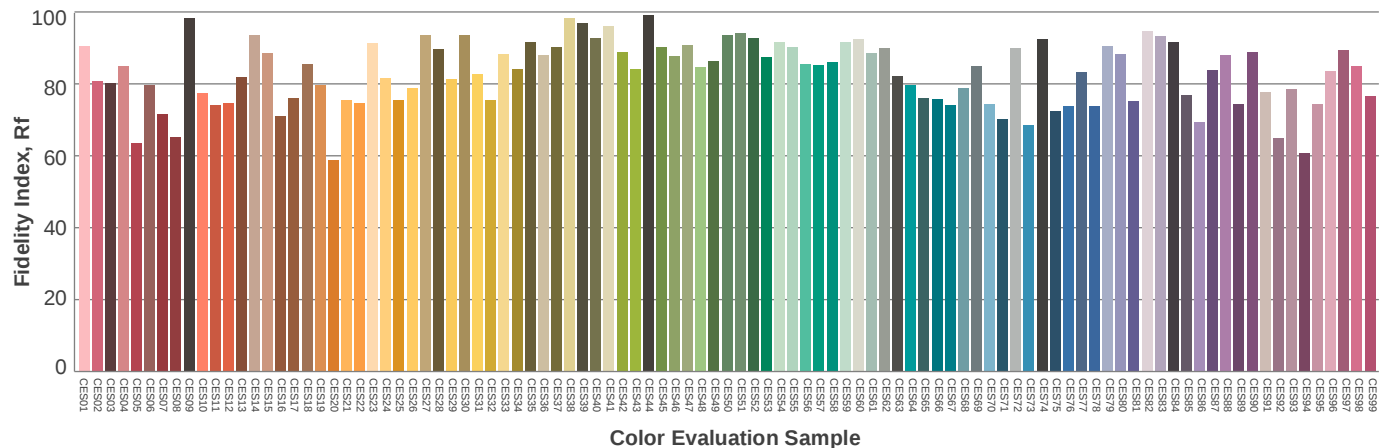
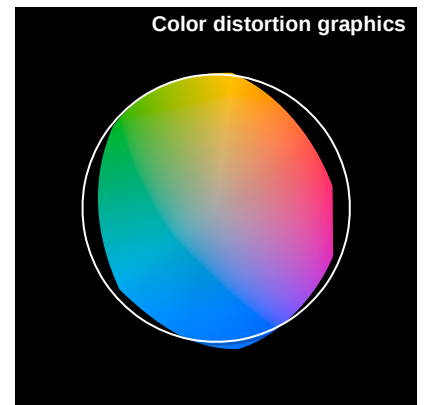
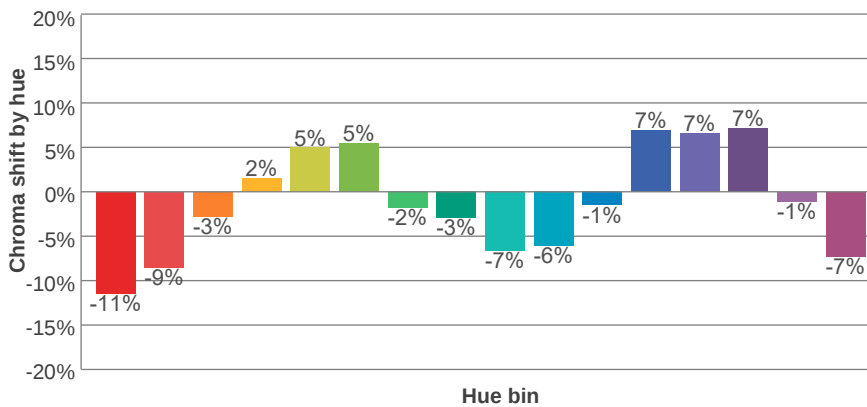
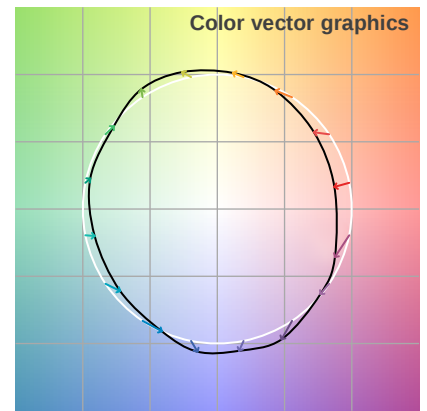
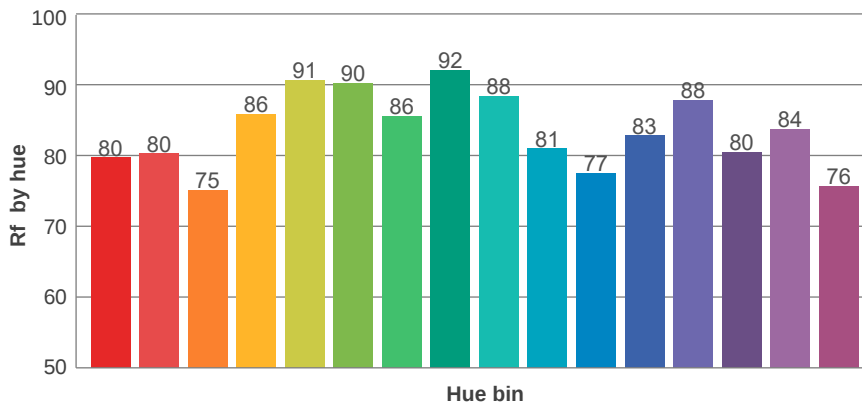
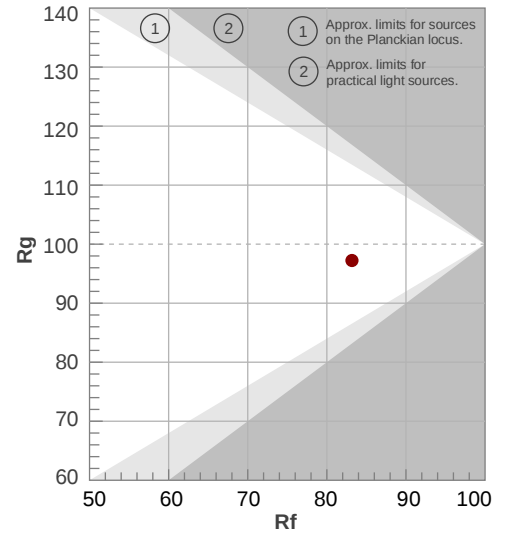
Rf 83,2

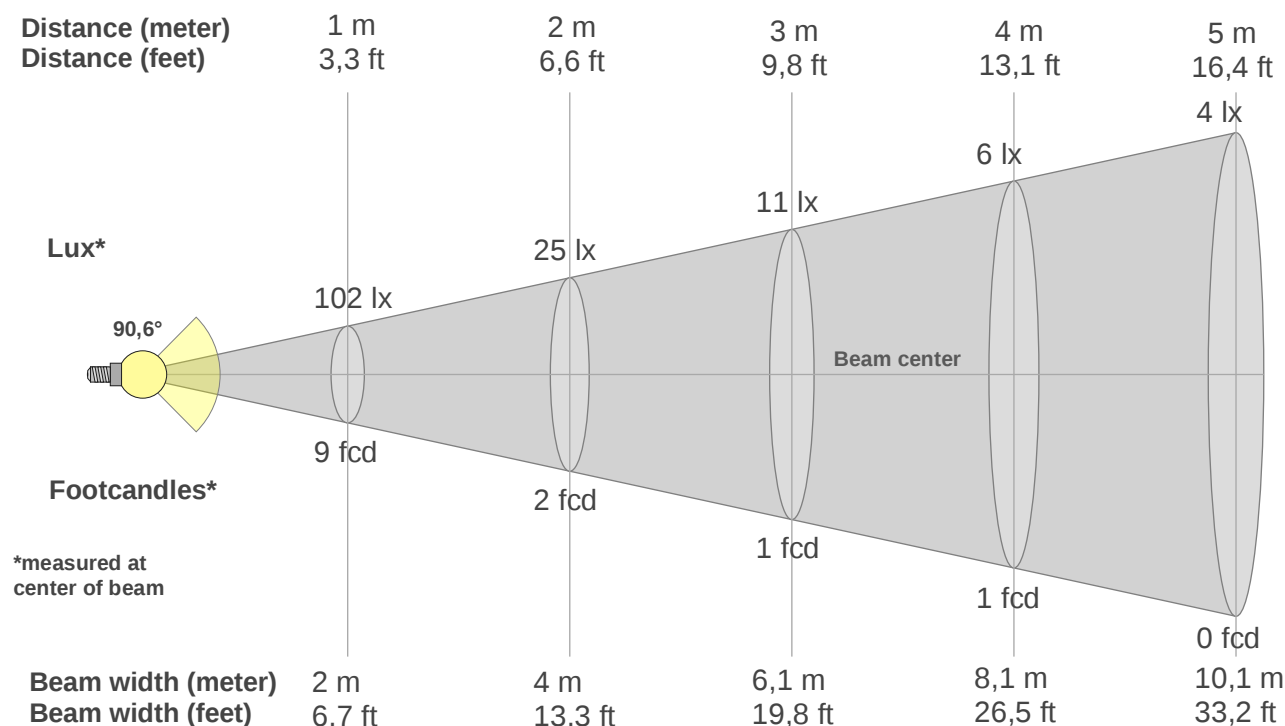
Fidelity index Rf

Rg 97,2

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	80	-11%	-1%
2	80	-9%	8%
3	75	-3%	13%
4	86	2%	8%
5	91	5%	6%
6	90	5%	-2%
7	86	-2%	-8%
8	92	-3%	-4%
9	88	-7%	2%
10	81	-6%	11%
11	77	-1%	16%
12	83	7%	6%
13	88	7%	-5%
14	80	7%	-14%
15	84	-1%	-10%
16	76	-7%	-18%




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
102lx	25lx	11lx	6lx	4lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx
9,4fcd	2,4fcd	1fcd	0,6fcd	0,4fcd	0,3fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

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°
102	101	101	99	96	93	88	83	72	52	29	11	3	2	1	1	1	1	0	0
100%	100%	99%	97%	94%	91%	87%	81%	70%	51%	28%	11%	3%	2%	1%	1%	1%	1%	0%	0%

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°
102	101	101	99	96	93	88	83	72	52	29	11	3	2	1	1	1	1	0	0
100%	100%	99%	97%	94%	91%	87%	81%	70%	51%	28%	11%	3%	2%	1%	1%	1%	1%	0%	0%

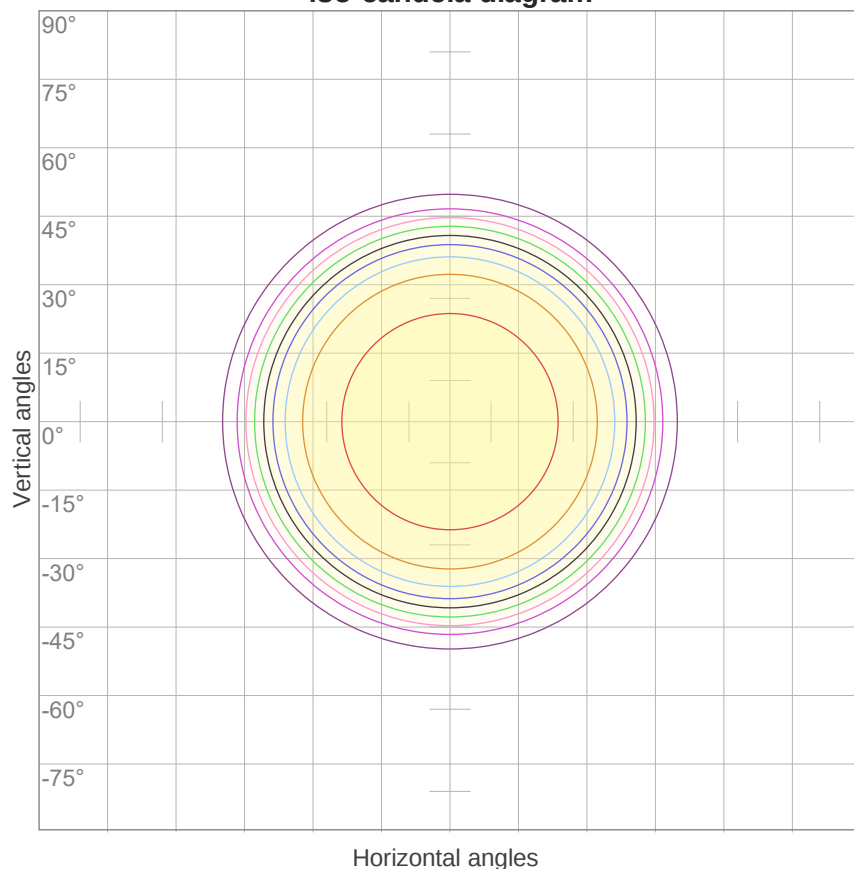
Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
102	101	101	99	96	93	88	83	72	52	29	11	3	2	1	1	1	1	0	0
100%	100%	99%	97%	94%	91%	87%	81%	70%	51%	28%	11%	3%	2%	1%	1%	1%	1%	0%	0%

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°
102	101	101	99	96	93	88	83	72	52	29	11	3	2	1	1	1	1	0	0
100%	100%	99%	97%	94%	91%	87%	81%	70%	51%	28%	11%	3%	2%	1%	1%	1%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
90,6°	110,7°	360°	97,5%	83,2%

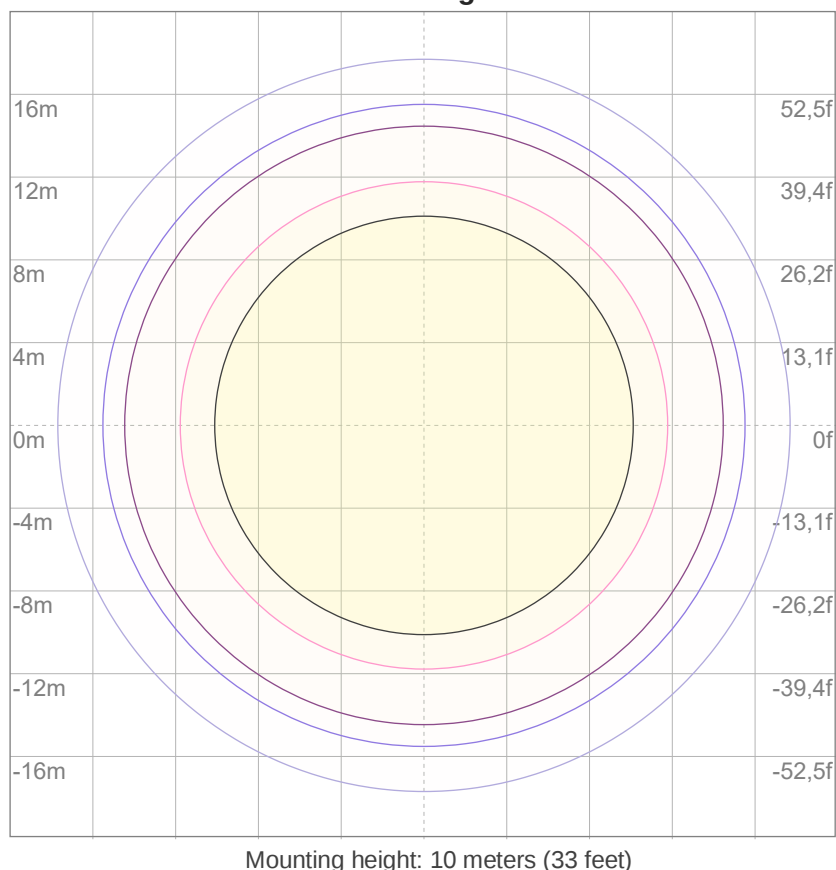
iso-candela diagram


10%	10 cd
20%	20 cd
30%	31 cd
40%	41 cd
50%	51 cd
60%	61 cd
70%	71 cd
80%	81 cd
90%	92 cd

Conditions:

Number of c-planes: 48

Candela at center: 102 cd

iso-lux diagram


3%	30,5m lx
5%	50,9m lx
10%	0,102 lx
30%	0,305 lx
50%	0,509 lx

Conditions:

Number of c-planes: 48

Lux at center: 1,02 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
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 187 lm total luminous flux										

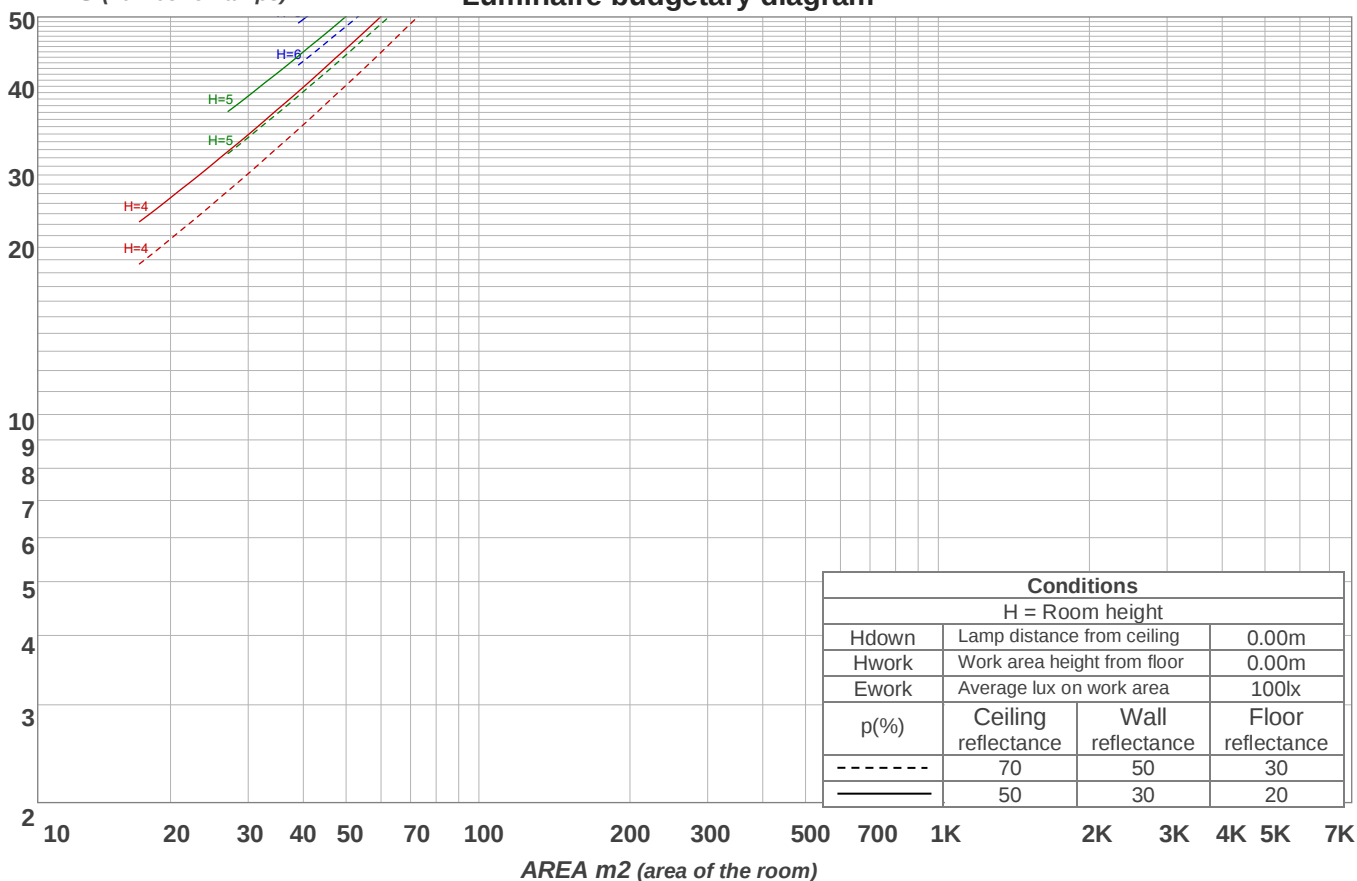
UGR data could not be calculated due to missing dimensions. Goto Edit->Photometric->Dimensions and set the fixture/lamp dimensions.

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	112	109	106	103	109	106	104	101	102	100	98	98	96	95	94	93	92	90
2	105	99	94	90	102	97	92	89	93	90	87	90	87	85	87	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	80	77	74	72
4	91	82	75	70	89	81	74	70	78	73	69	76	71	68	74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	51	73	62	55	51	61	55	50	59	54	50	58	53	49	48
8	70	58	51	46	68	58	51	46	56	50	46	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	42	51	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36

LAMPS (number of lamps)

Luminaire budgetary diagram



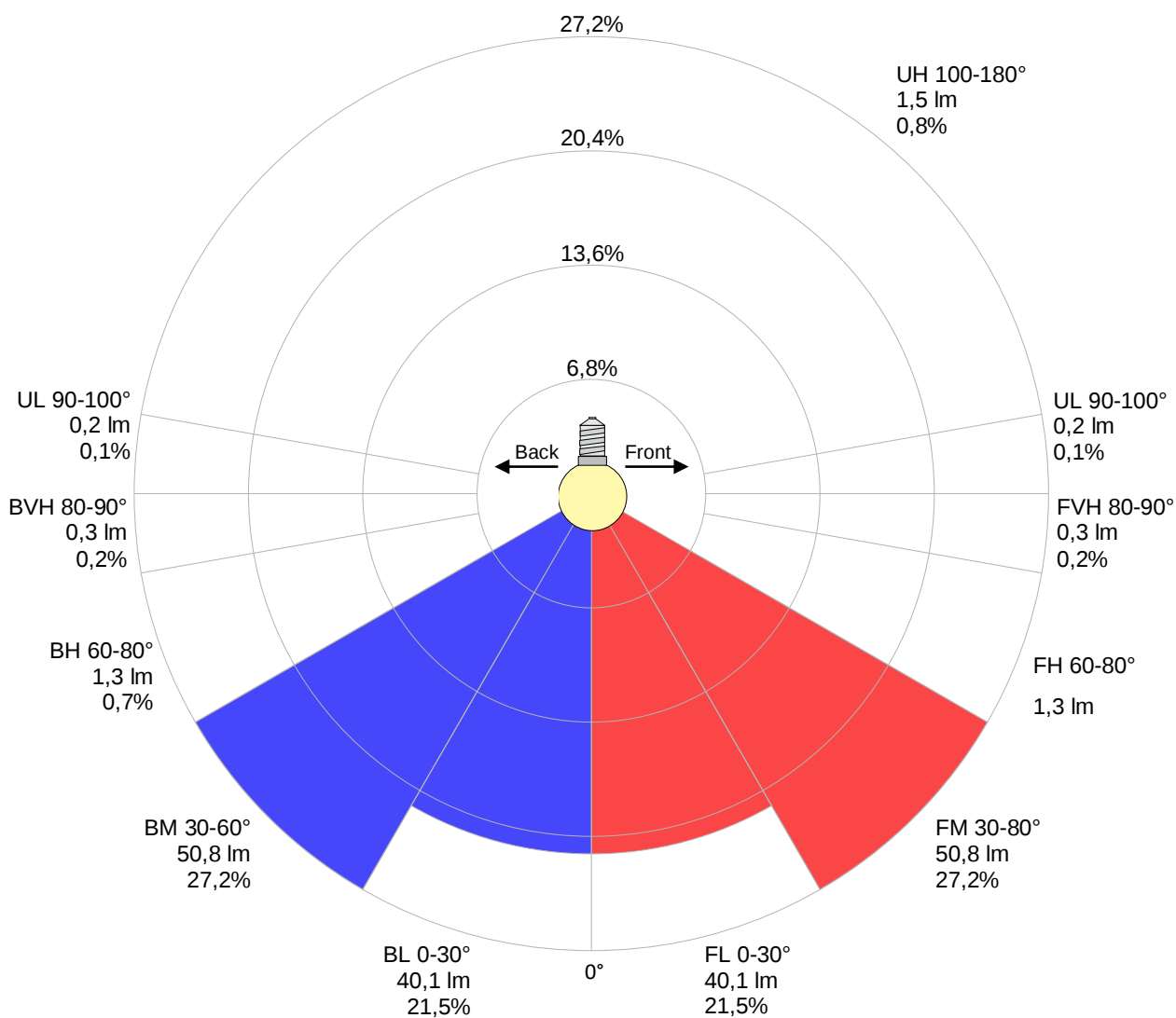
Zonal Lumen Summary

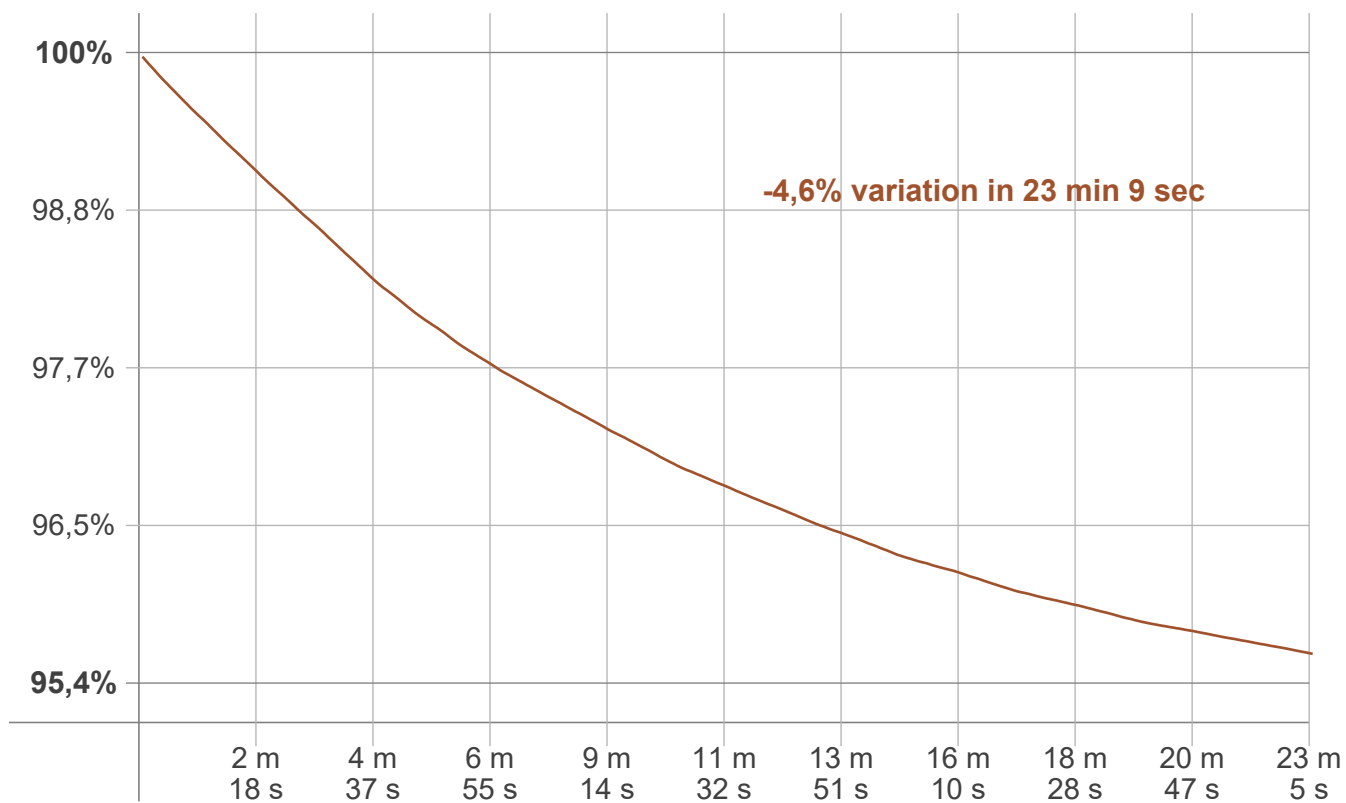
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	27,9 lm	42,7 lm	51,4 lm	40,0 lm	10,2 lm	1,57 lm	0,811 lm	0,672 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,185 lm	0,264 lm	0,339 lm	0,262 lm	0,091 lm	0,063 lm	0,096 lm	0,221 lm	0,170 lm

LCS table

BUG rating:	B0 U1 G0	
Forward light	Lumens	Lumens %
Low(0-30):	40,1	21,5%
Medium(30-60):	50,8	27,2%
High(60-80):	1,3	0,7%
Very high(80-90):	0,3	0,2%
Back light		
Low(0-30):	40,1	21,5%
Medium(30-60):	50,8	27,2%
High(60-80):	1,3	0,7%
Very high(80-90):	0,3	0,2%
Uplight		
Low(90-100):	0,2	0,1%
High(100-180):	1,5	0,8%

LCS graph



Warmup curve

Warmup result

Warmup time:	Lamp stabilized in 23 min 9 sec
Warmup variation	-4,6%

Warmup conditions

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

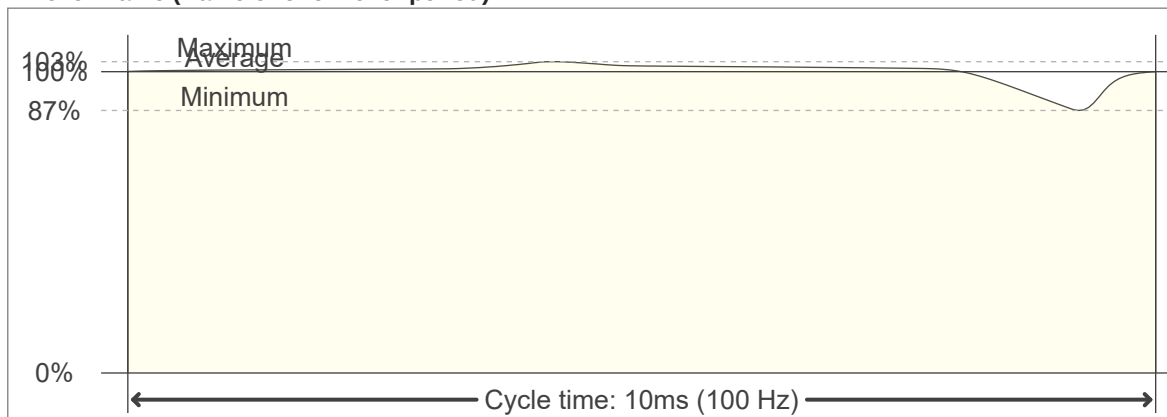
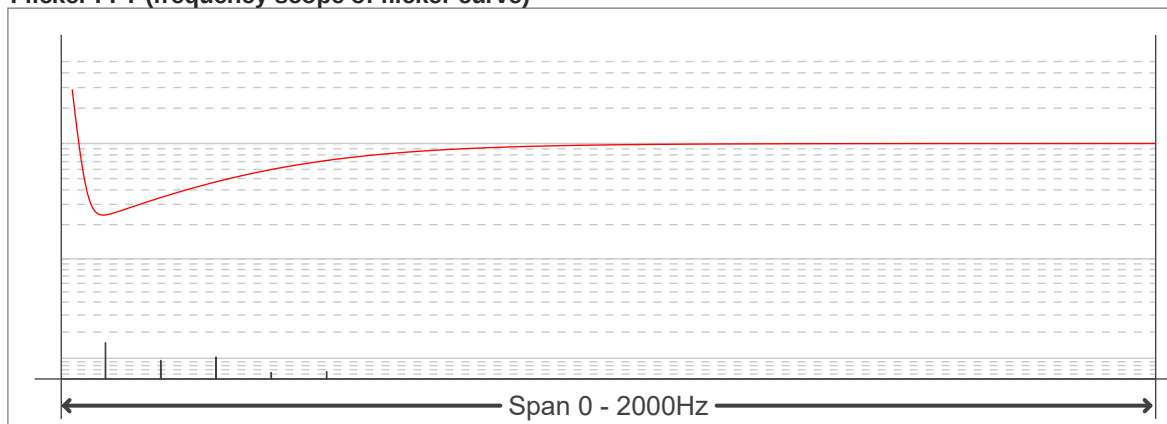
Color temperature change

CCT start	CCT change	CCT end
2990 K	+10 K	3000 K

Output change

Output start	Output change	Output end
195 lm	-9 lm	187 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:	0,01	JA8/10 40Hz	0,05 %
Flicker percentage:	8,62 %	JA8/10 90Hz	0,05 %
SVM: (Visual flicker)	n/a	JA8/10 200Hz	3,38 %
PstLM	n/a	JA8/10 400Hz	5,43 %
Mp	0,03	JA8/10 1000Hz	7,96 %

Flicker conditions:

Sample rate:	20000 samples/second
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