

Light efficiency:

141 Lumen/Watt

Light quality:

CRI: 74.4

Color temperature:

3896 K

Output: 15856 lm

Peak: 11235 cd

Power: 112.4 W

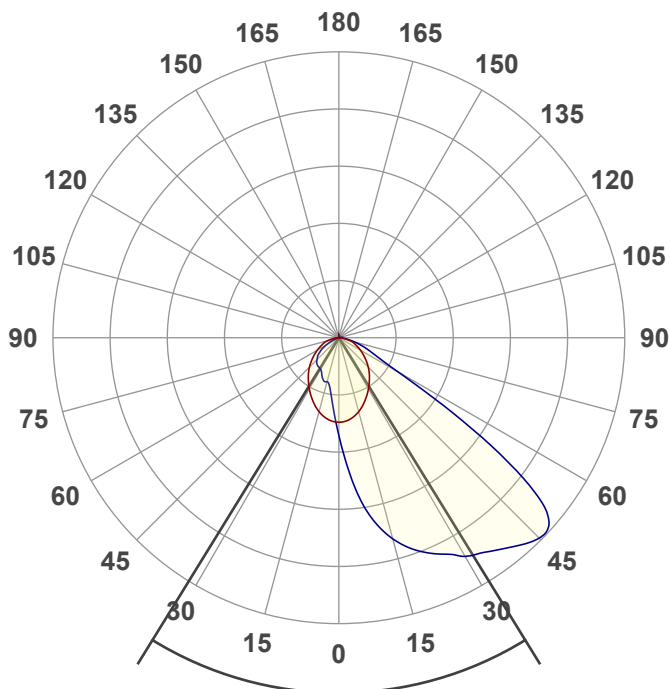
PF: 1.0

Product name:

WFCCT-R1-SW3B120-LC

Date and time:

10/6/2021 10:24:07 AM



Beam angle

63.3°

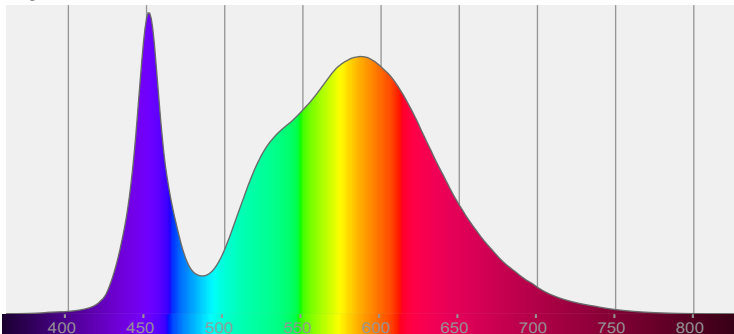


CIE 1931

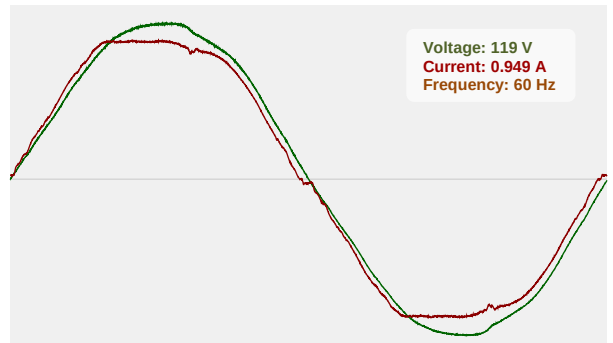
x: 0.384

y: 0.374

Spectra



Power



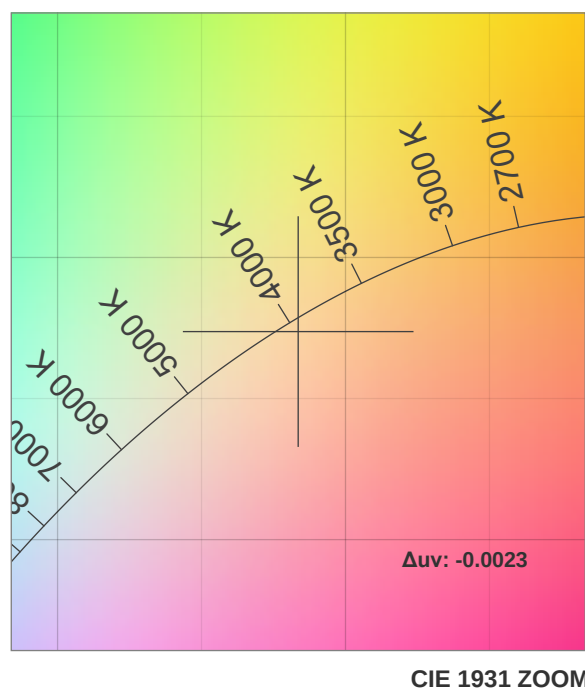
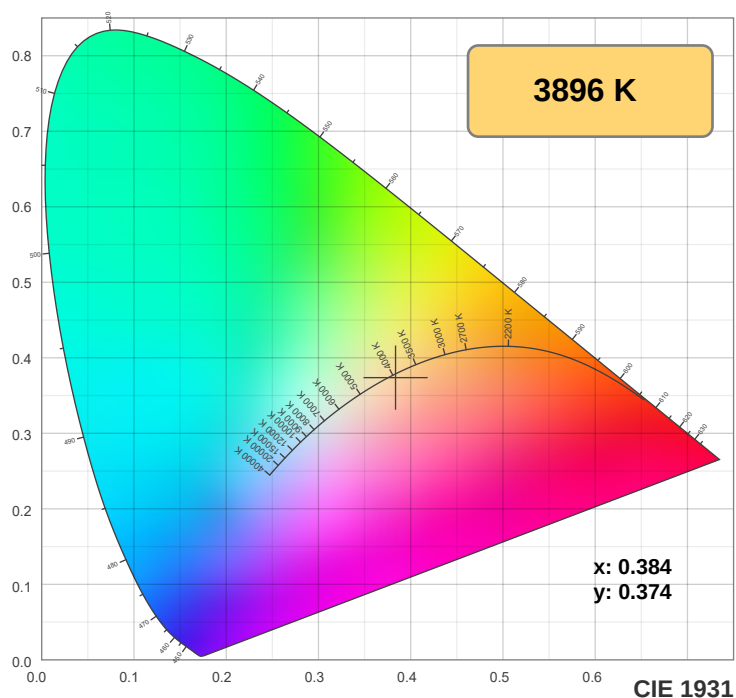
T 314.743.3067

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email: commercial-sales@superbrightleds.com

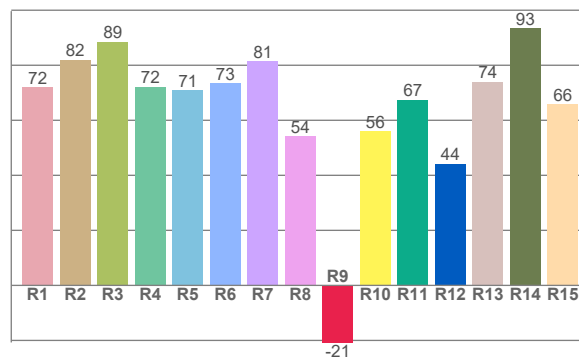
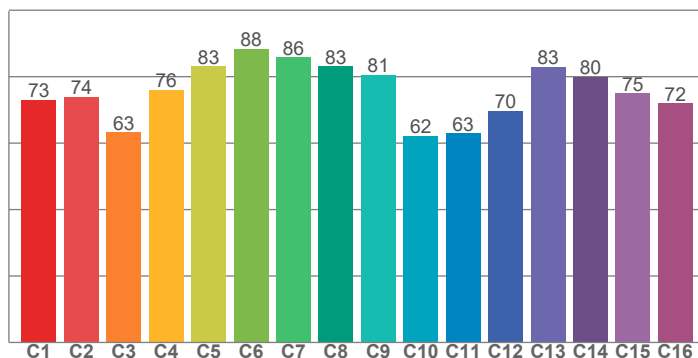
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Color Specifications



TM30: 75.4

CRI: 74.4 (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
72.0	82.0	88.6	72.2	71.0	73.5	81.5	54.1	-20.7	56.1	67.4	44.1	74.0	93.4	65.8

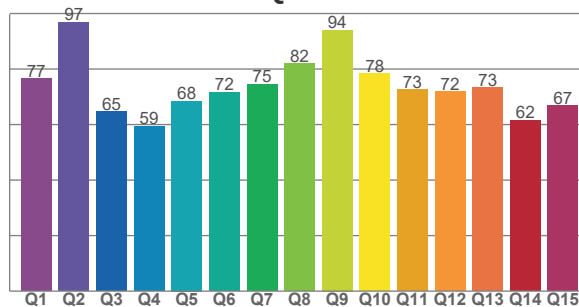
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
73.0	74.0	63.2	76.0	83.1	88.4	85.8	83.1	80.6	62.2	62.9	69.7	82.9	79.9	75.0	72.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76.5	96.9	64.7	59.4	68.5	71.6	74.6	82.0	94.1	78.3	72.5	71.8	73.2	61.6	66.9

CQS: 72.2



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
3896 K	74.4	-20.7	75.4	94.5	72.2	0.384	0.374	0.228	0.334	-0.0023



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TM30 Report

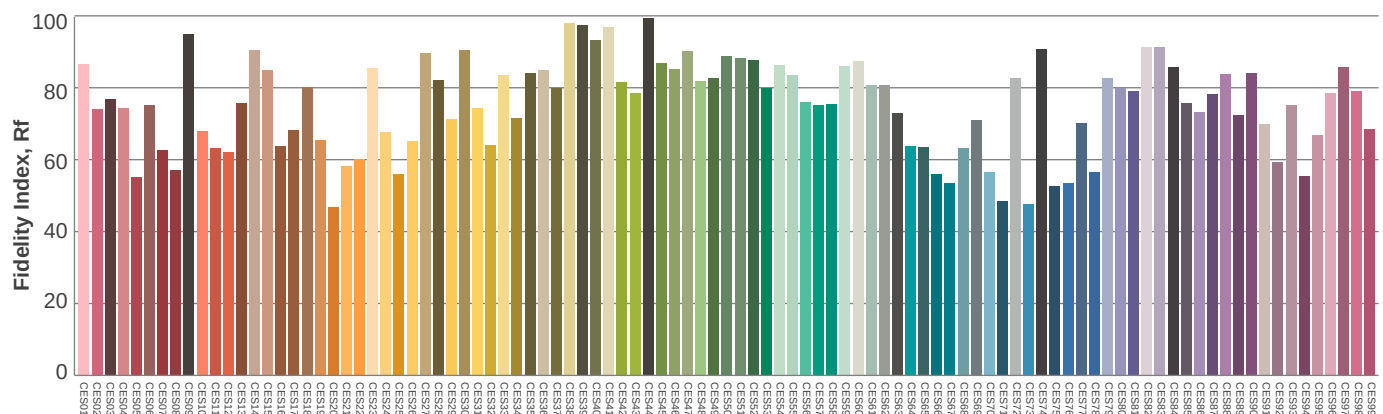
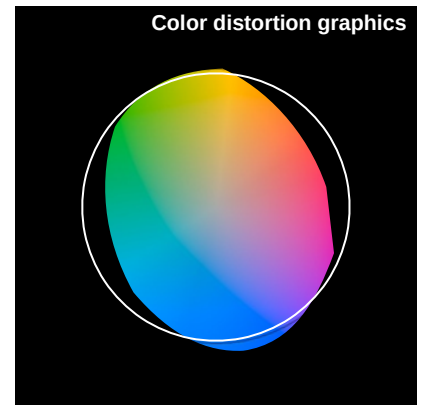
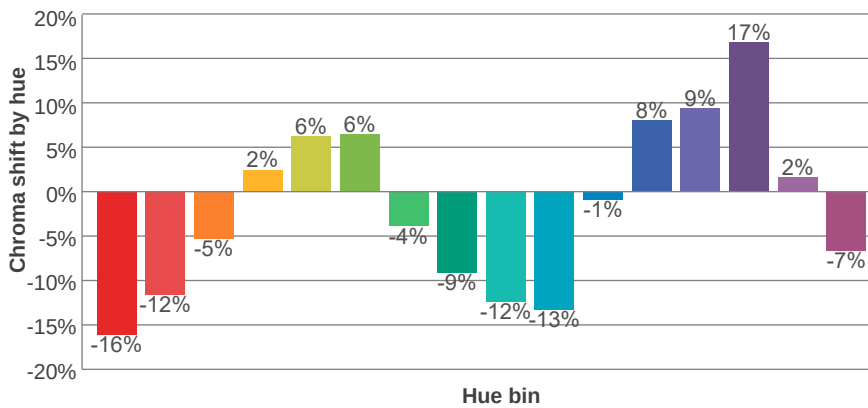
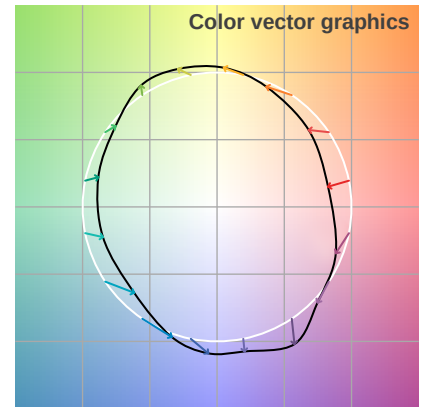
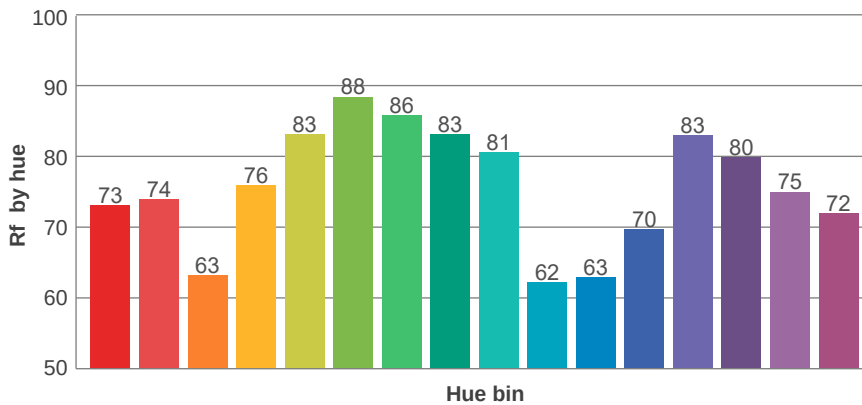
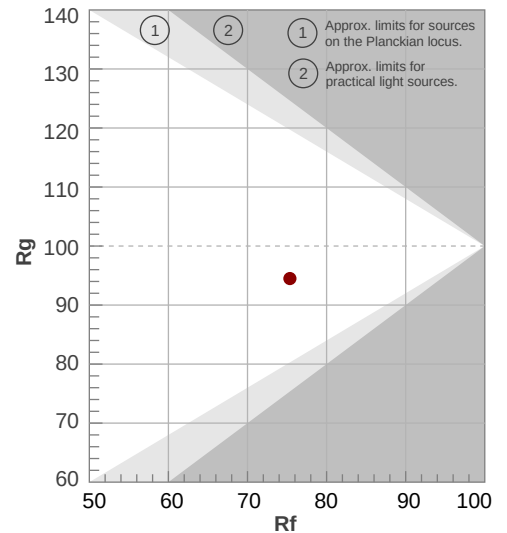
Rf 75.4

Fidelity index Rf

Rg 94.5

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	73	-16%	-1%
2	74	-12%	10%
3	63	-5%	19%
4	76	2%	15%
5	83	6%	9%
6	88	6%	-3%
7	86	-4%	-8%
8	83	-9%	-4%
9	81	-12%	5%
10	62	-13%	19%
11	63	-1%	26%
12	70	8%	15%
13	83	9%	-1%
14	80	17%	-9%
15	75	2%	-18%
16	72	-7%	-17%



Color Evaluation Sample



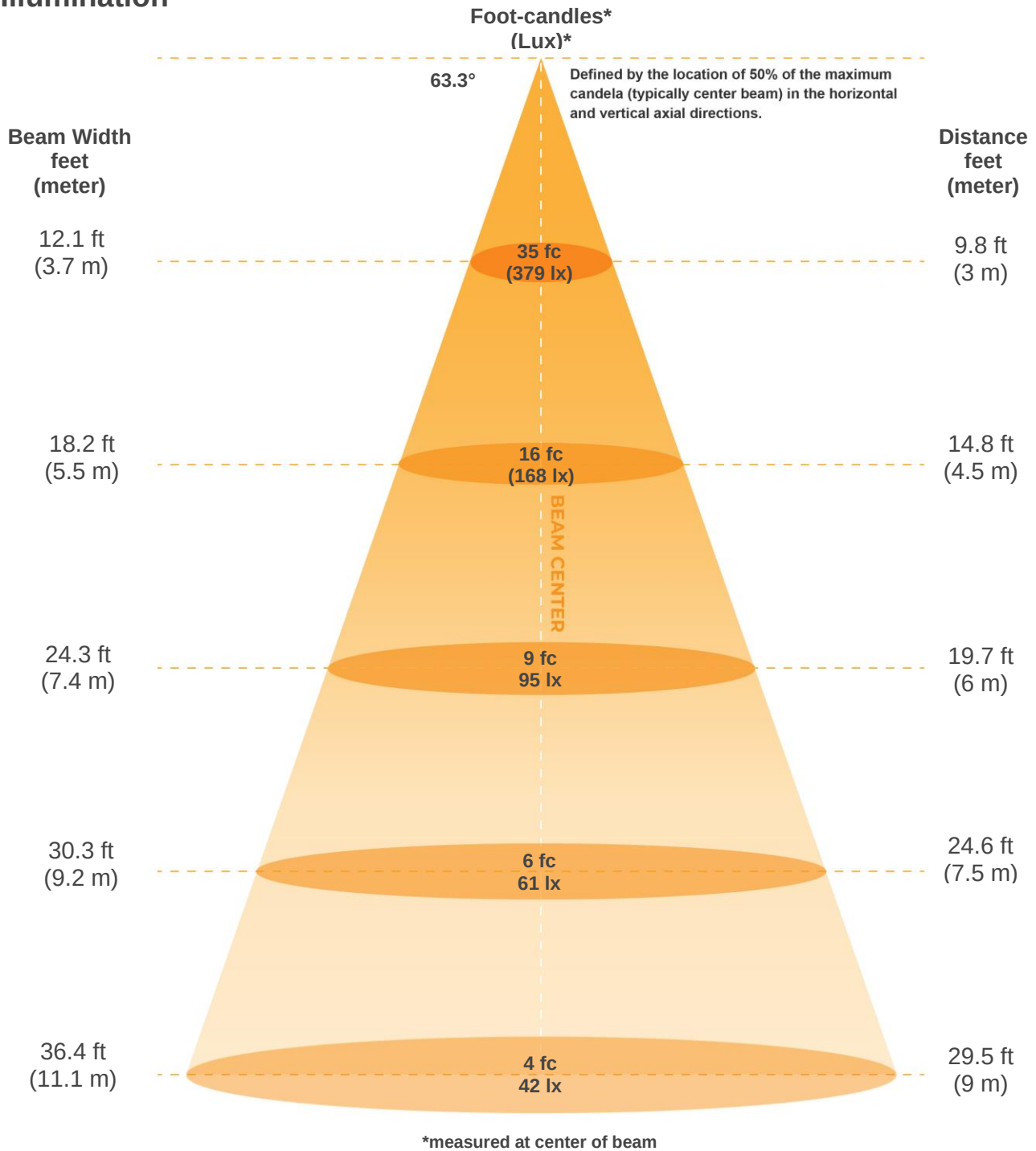
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Illumination



Beam intensities from 1-20m

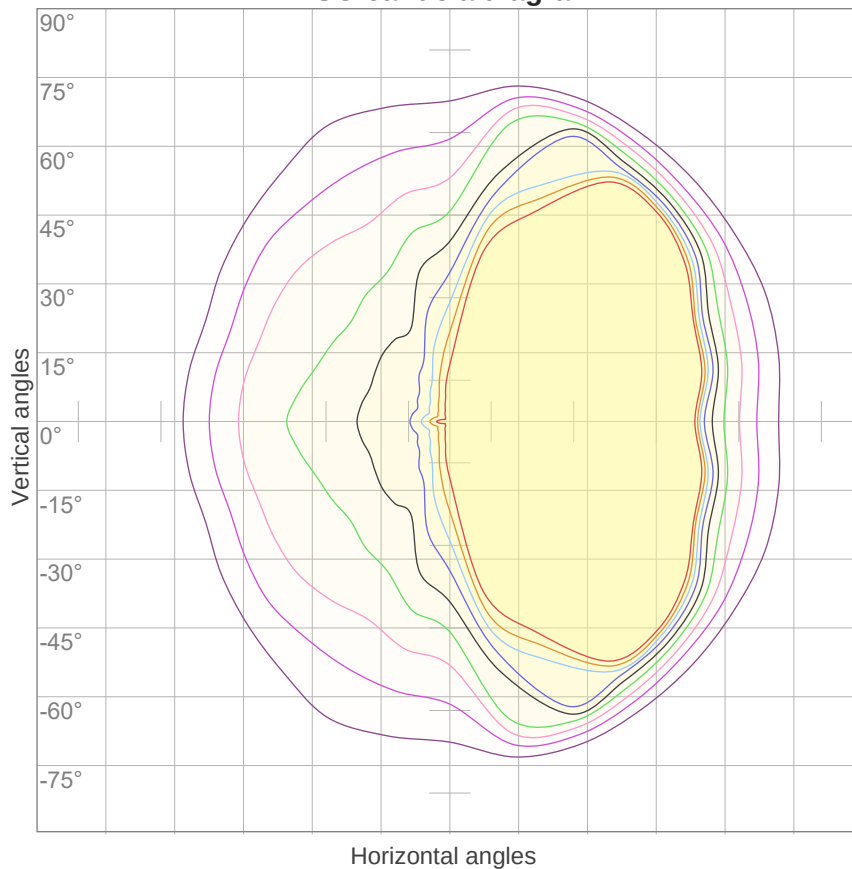
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
3411lx	853lx	379lx	213lx	136lx	95lx	70lx	53lx	42lx	34lx	28lx	24lx	20lx	17lx	15lx	13lx	12lx	11lx	9lx	9lx
316.9fc	79.2fcd	35.2fcd	19.8fcd	12.7fcd	8.8fcd	6.5fcd	5fcd	3.9fcd	3.2fcd	2.6fcd	2.2fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd	0.8fcd

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
63.3°	136.1°	159.2°	81.5%	49.7%



ISO Diagrams

ISO candela diagram



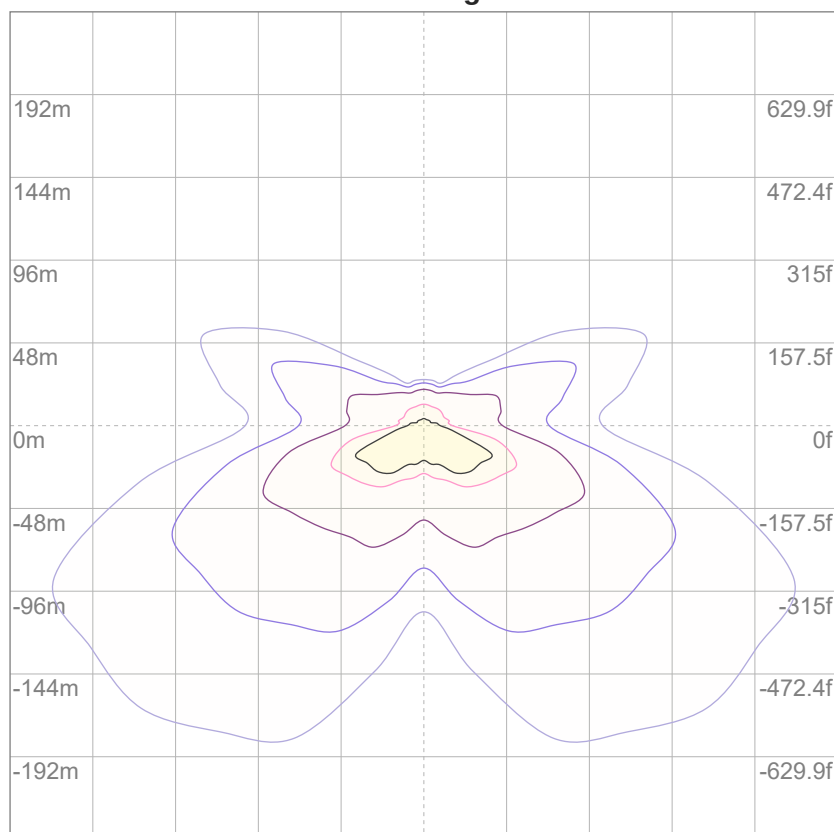
10%	341 cd
20%	682 cd
30%	1023 cd
40%	1365 cd
50%	1706 cd
60%	2047 cd
70%	2388 cd
80%	2729 cd
90%	3070 cd

Conditions:

Number of c-planes: 16

Candela at center: 3411 cd

ISO lux diagram



3%	1.02 lx
5%	1.71 lx
10%	3.41 lx
30%	10.2 lx
50%	17.1 lx

Conditions:

Number of c-planes: 16

Lux at center: 34.1 lx

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



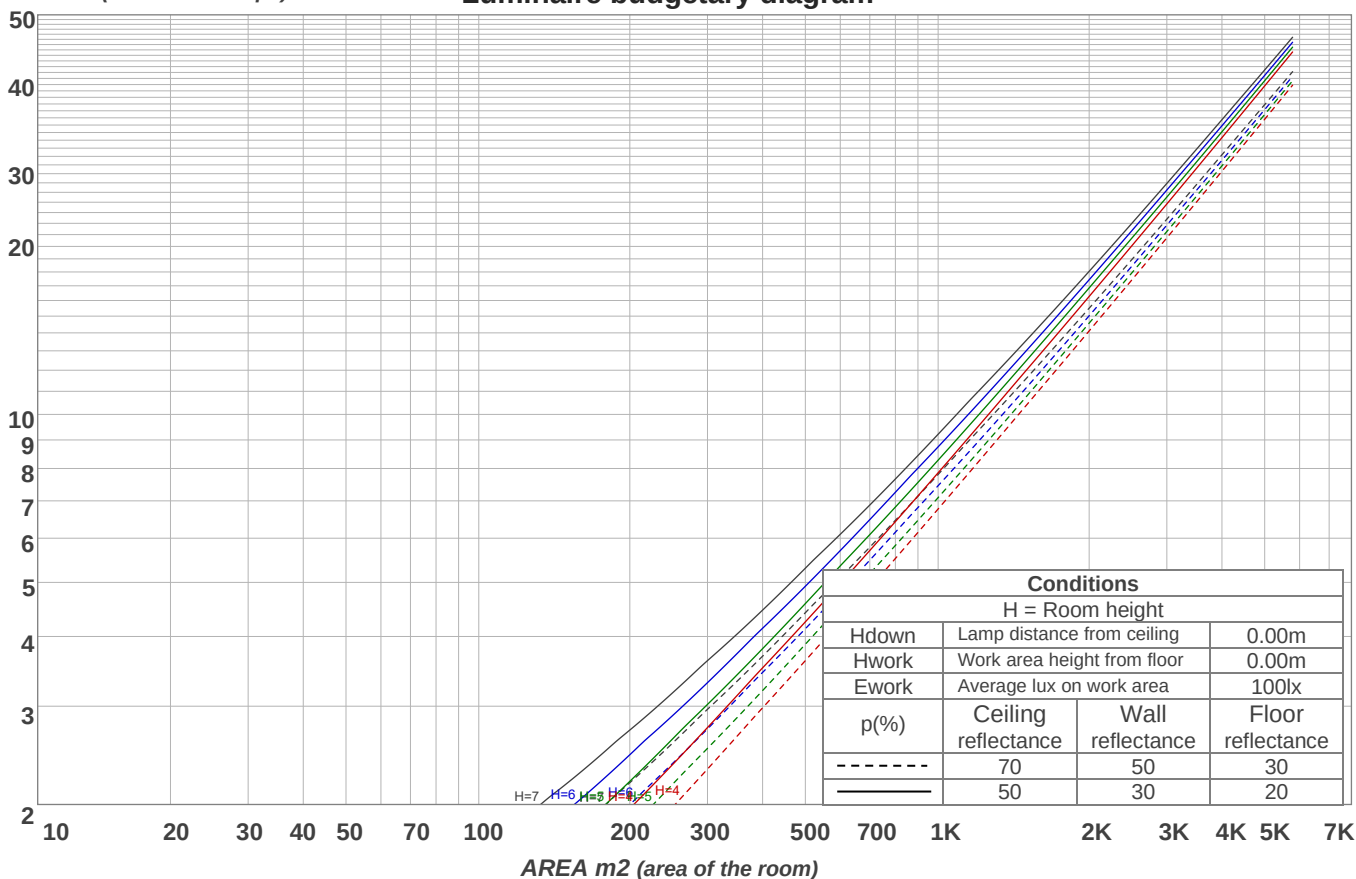
Light Planning

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	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	69	60	54	79	68	60	53	65	58	52	63	57	52	61	55	51	49
5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	49	37	29	23	36	28	23	35	28	23	34	28	23	21

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°
346 lm	1160 lm	2014 lm	2753 lm	3346 lm	3299 lm	1909 lm	807 lm	164 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
5.90 lm	6.42 lm	7.80 lm	8.82 lm	8.80 lm	8.04 lm	6.37 lm	4.07 lm	1.39 lm

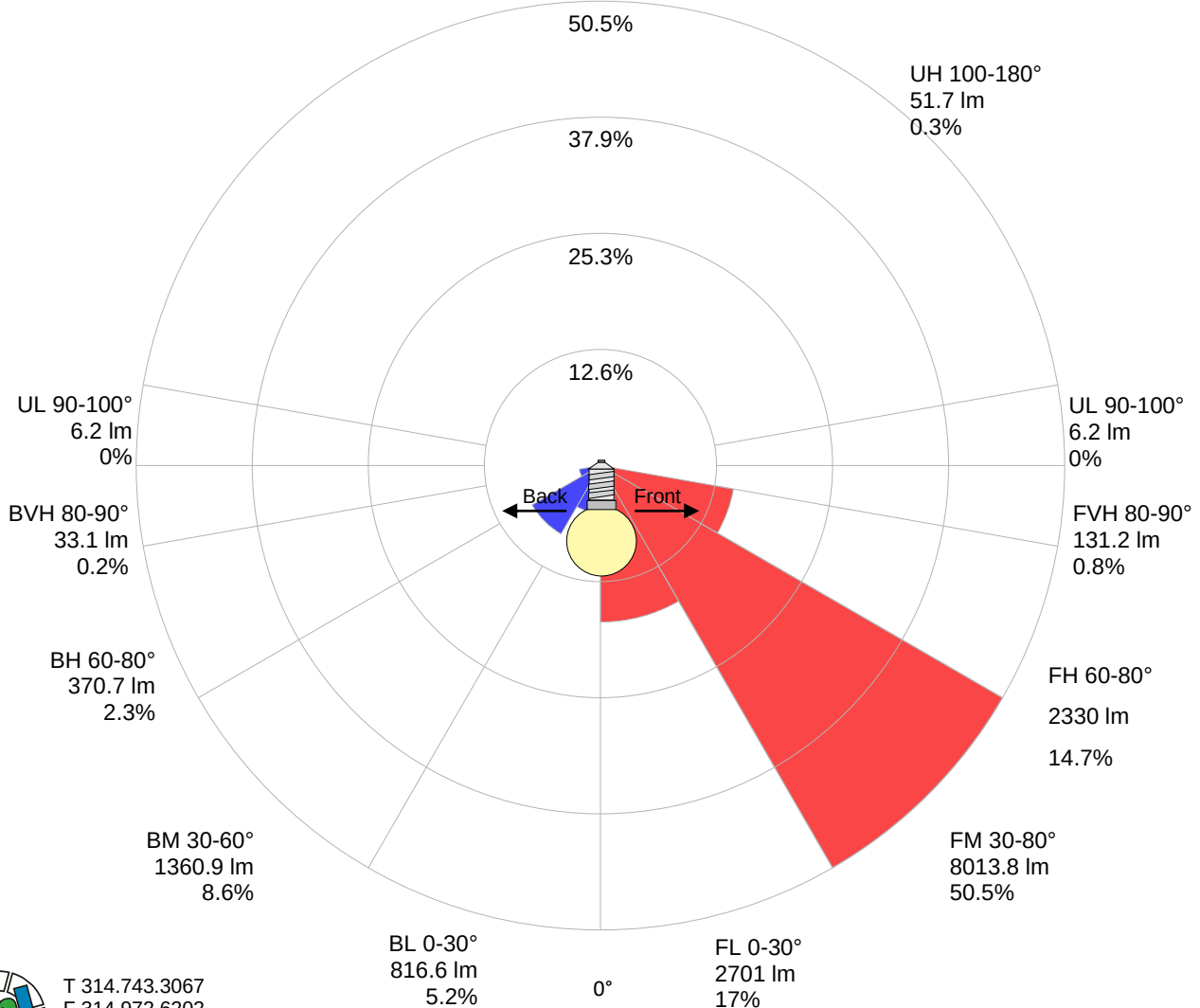


Road Report

LCS table

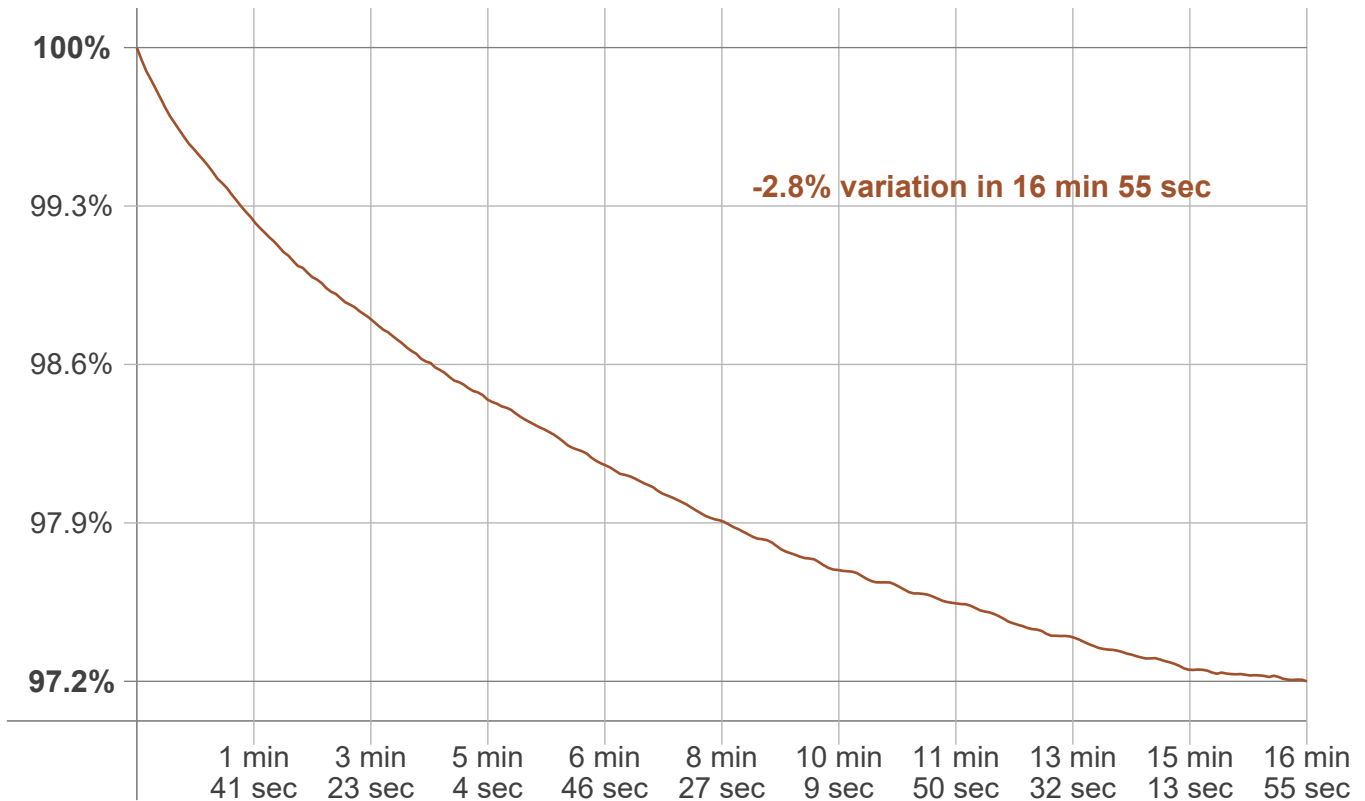
BUG rating:	B2 U3 G2	
Forward light	Lumens	Lumens %
Low(0-30):	2701	17%
Medium(30-60):	8013.8	50.5%
High(60-80):	2330	14.7%
Very high(80-90):	131.2	0.8%
Back light		
Low(0-30):	816.6	5.2%
Medium(30-60):	1360.9	8.6%
High(60-80):	370.7	2.3%
Very high(80-90):	33.1	0.2%
Uplight		
Low(90-100):	6.2	0%
High(100-180):	51.7	0.3%

LCS graph



Stabilization

Warmup curve



Warmup result

Warmup time:	Lamp stabilized in 16 min 55 sec
Warmup variation	-2.8%

Warmup conditions

Stable period:	15 min
Stable change max:	2.0%
Minimum time:	15 min

Color temperature change

CCT start	CCT change	CCT end
3887 K	+9 K	3896 K

Output change

Output start	Output change	Output end
16284 lm	-429 lm	15856 lm

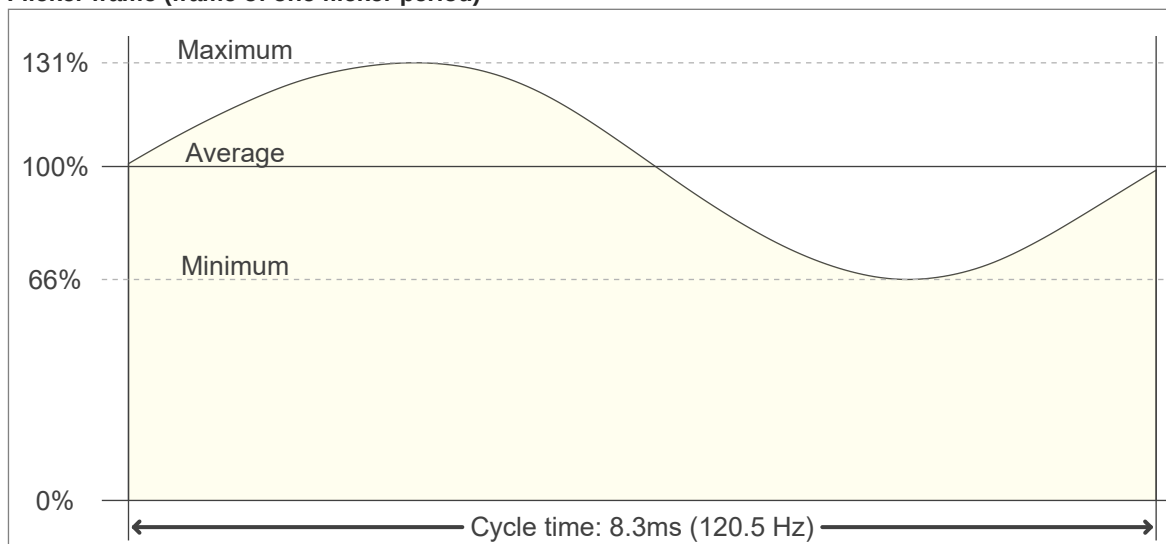


Flicker Specifications

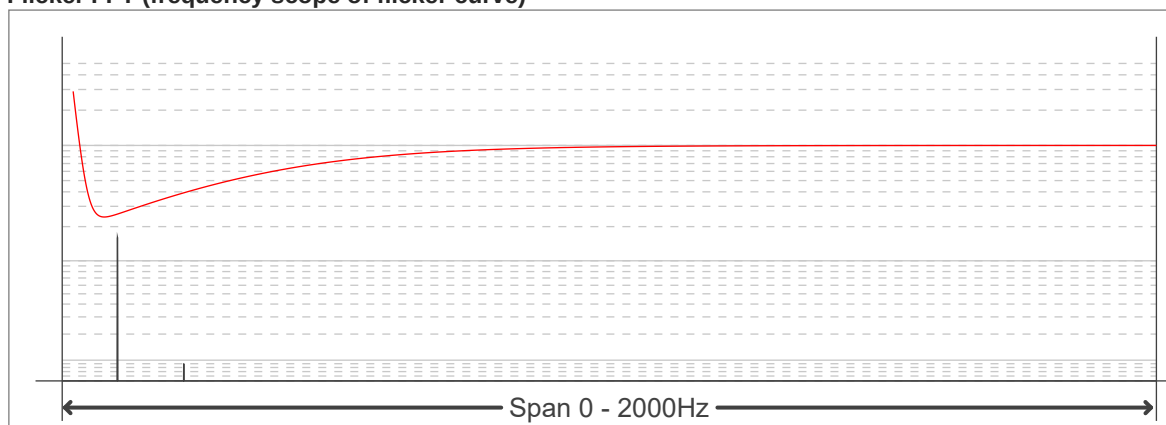
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:	120.48 Hz
Flicker index:	0.1
Flicker percentage:	33.04 %
SVM: (Visual flicker)	1.17

Flicker conditions:

Sample rate:	20000 samples/second
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