

Light efficiency:

128 Lumen/Watt

Output: 1901 lm

Light quality:

CRI: 84.2

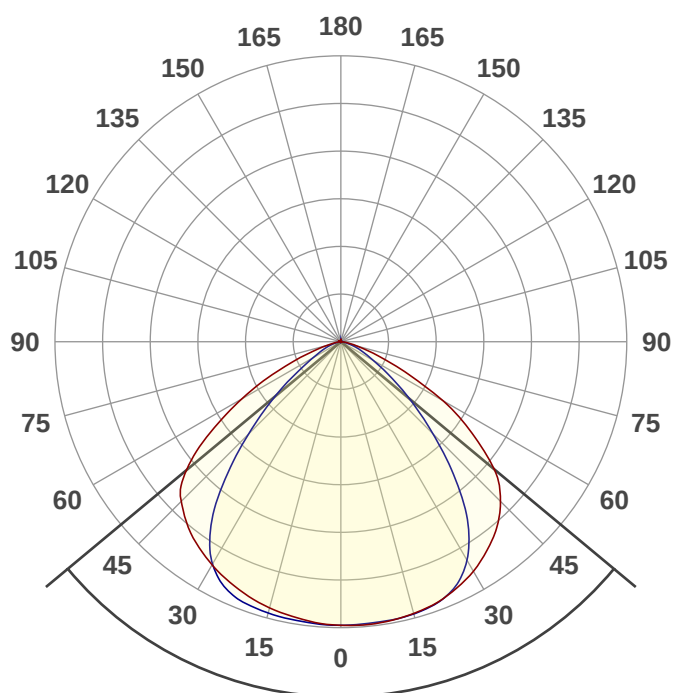
Peak: 812 cd

Color temperature:

5256 K

Power: 14.8 W

PF: 0.98



Product name:

FLCCT-SW3515-SH8BRU

Date and time:

6/8/2020 10:33:10 AM

Beam angle

100.5°

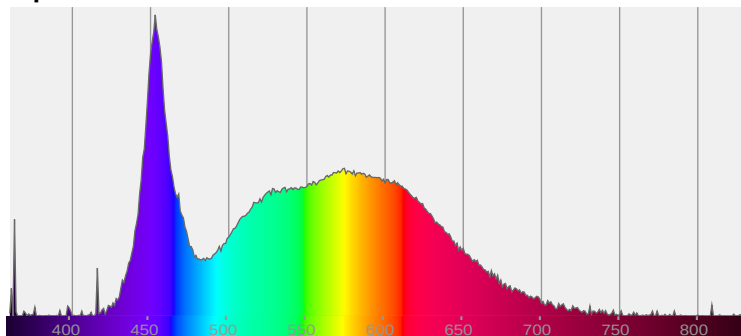


CIE 1931

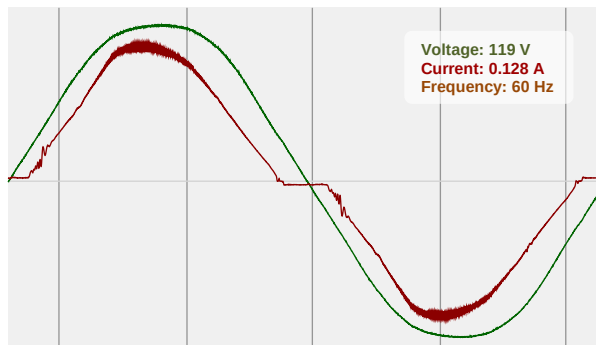
x: 0.338

y: 0.344

Spectra



Power



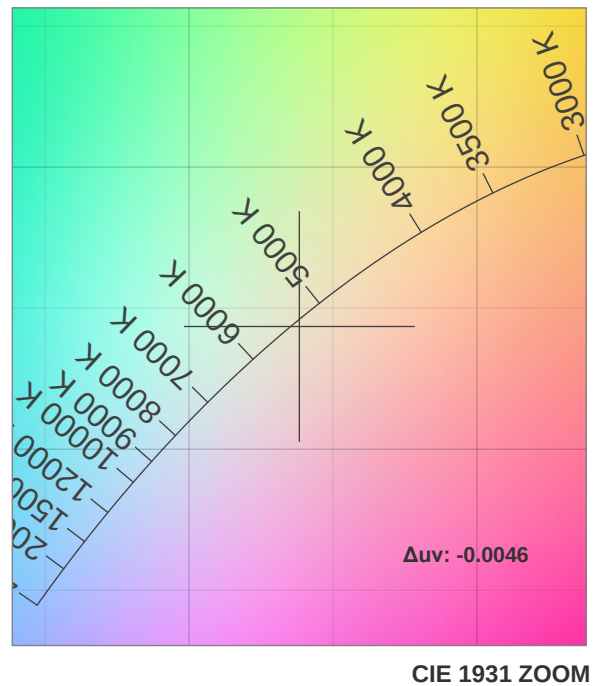
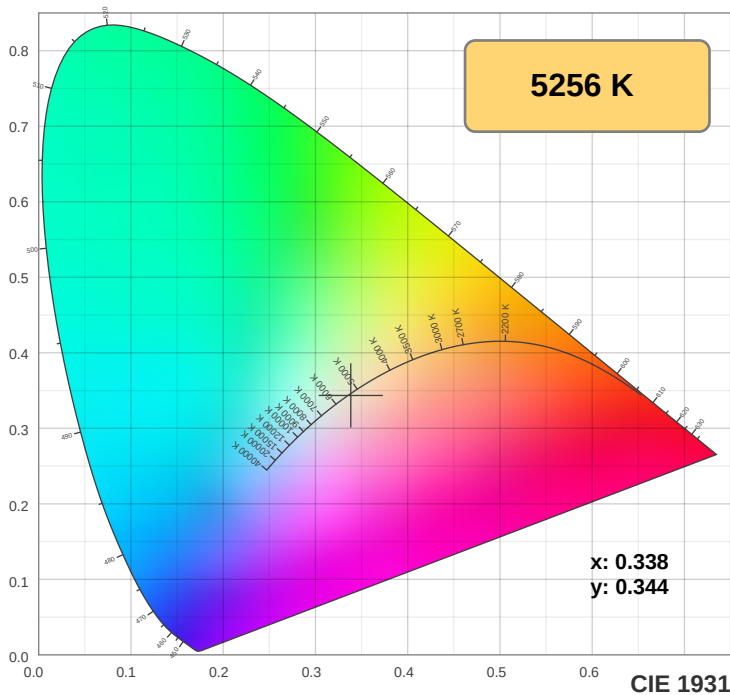
T 314.743.3067

F 314.972.6202

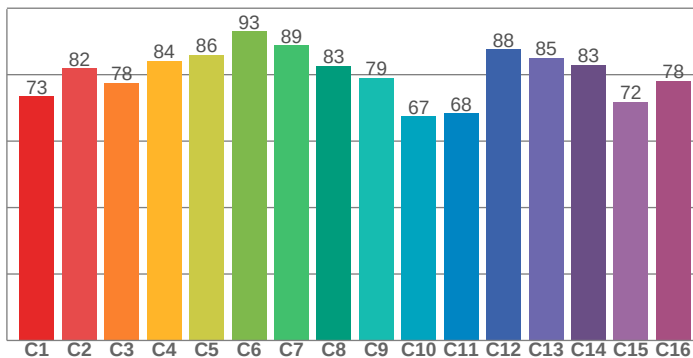
email: commercial-sales@superbrightleds.com

www.superbrightleds.com/

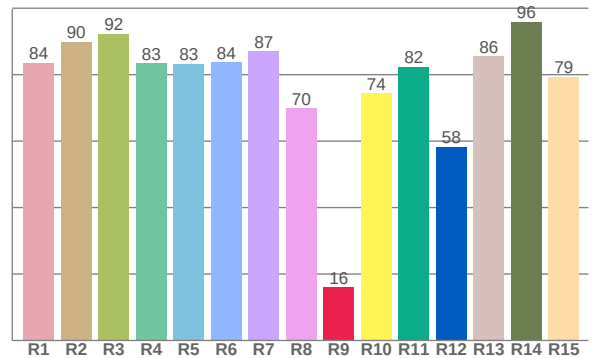
Color Specifications



TM30: 80.3



CRI: 84.2 (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
83.6	89.9	92.3	83.4	83.2	83.8	87.1	69.9	16.1	74.4	82.4	58.3	85.6	96.0	79.4

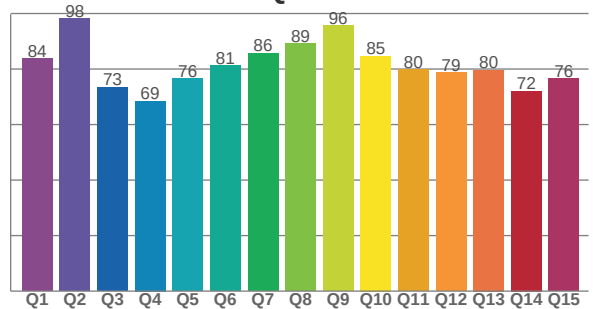
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
73.5	81.9	77.5	84.1	86.0	93.1	88.9	82.7	79.1	67.4	68.3	87.6	85.0	83.0	71.8	78.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83.7	98.2	73.5	68.5	76.5	81.1	85.7	89.2	95.6	84.7	79.7	78.7	79.6	72.1	76.5

CQS: 79.9



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
5256 K	84.2	16.1	80.3	94.6	79.9	0.338	0.344	0.210	0.320	-0.0046



TM30 Report

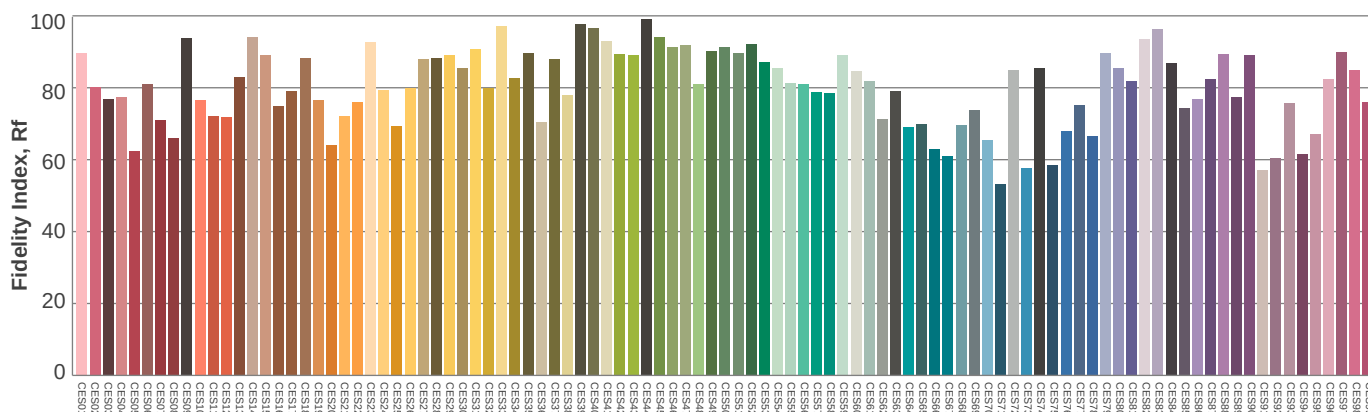
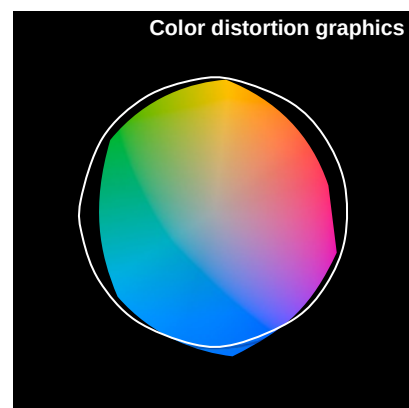
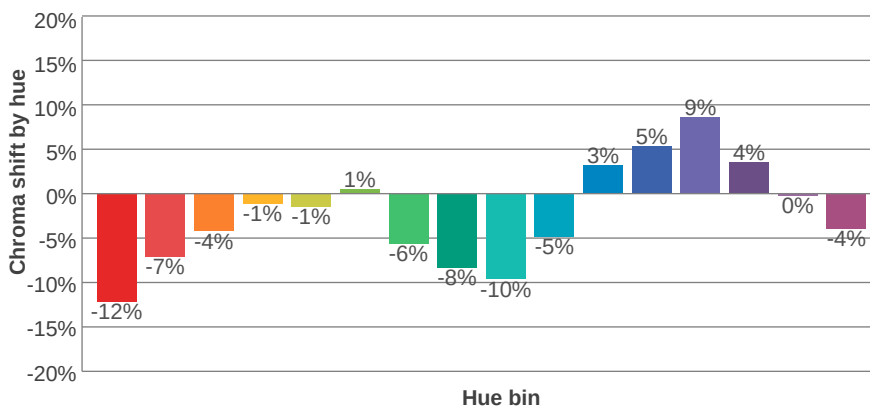
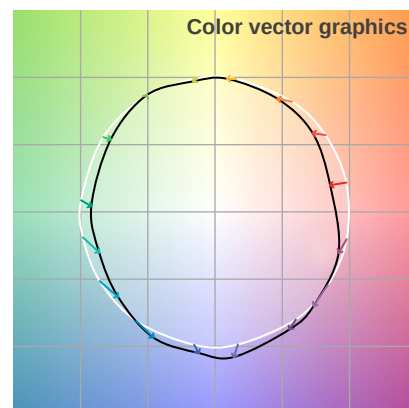
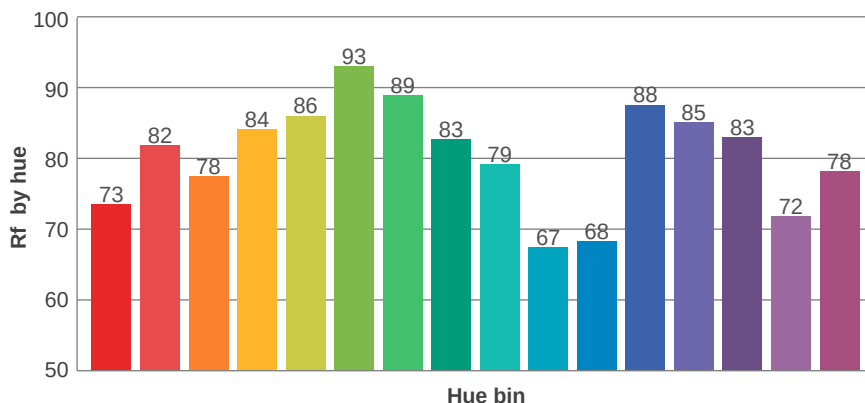
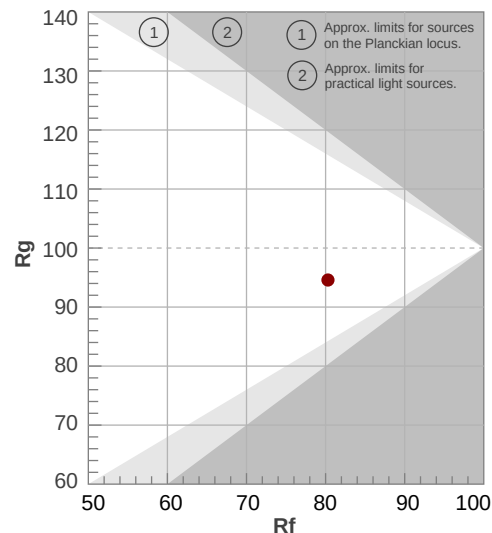
Rf 80.3

Fidelity index Rf

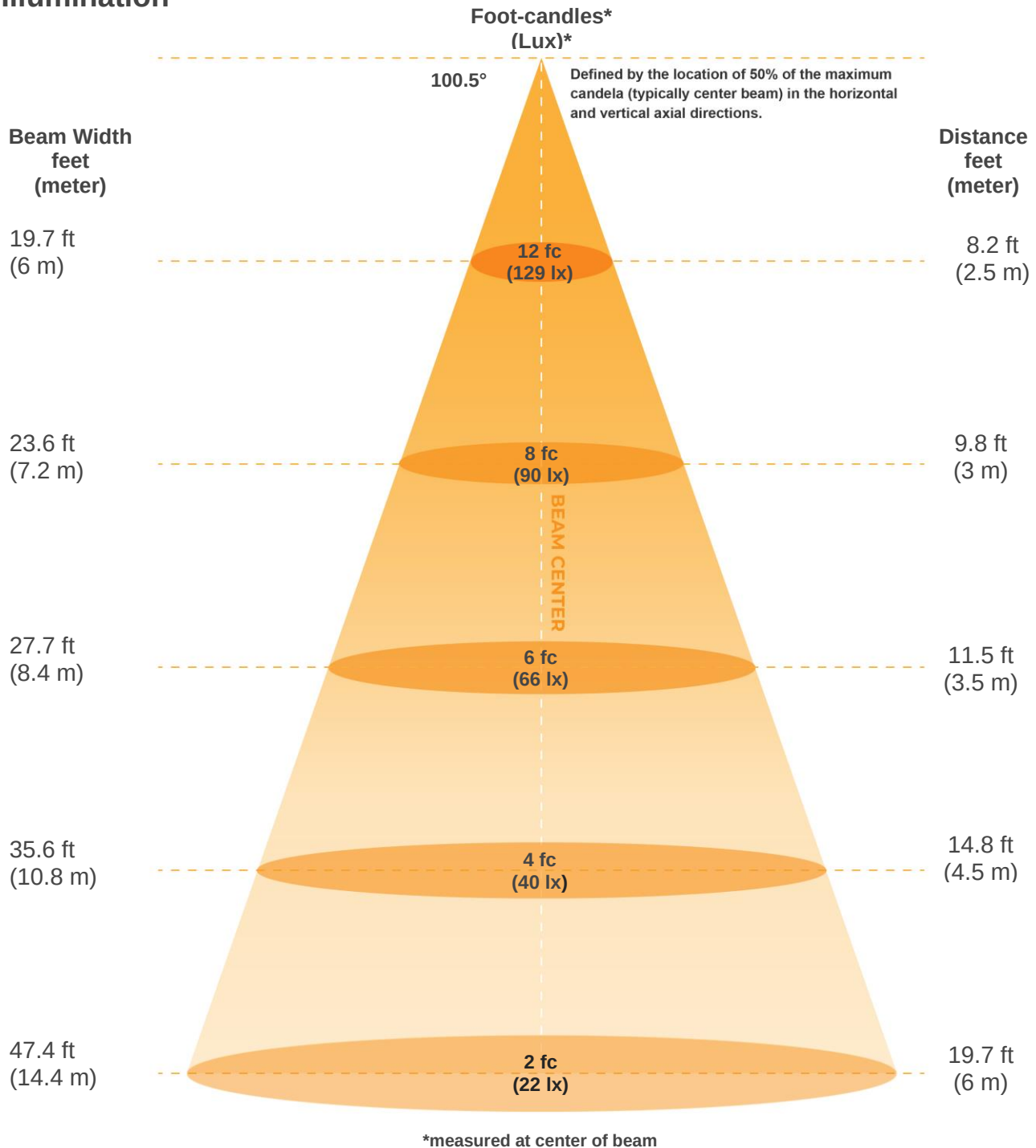
Rg 94.6

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	73	-12%	0%
2	82	-7%	6%
3	78	-4%	10%
4	84	-1%	7%
5	86	-1%	3%
6	93	1%	-1%
7	89	-6%	-2%
8	83	-8%	3%
9	79	-10%	13%
10	67	-5%	17%
11	68	3%	17%
12	88	5%	5%
13	85	9%	-5%
14	83	4%	-8%
15	72	0%	-19%
16	78	-4%	-11%



Illumination



Beam intensities from 1-20m

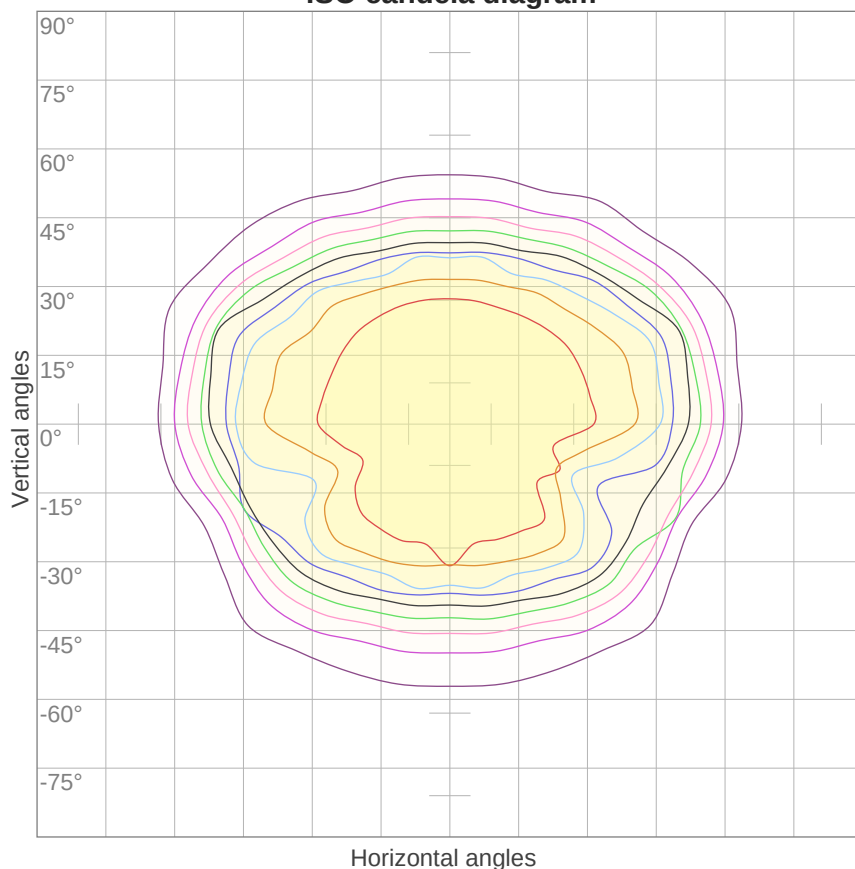
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
809lx	202lx	90lx	51lx	32lx	22lx	17lx	13lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx
75.1fcd	18.8fcd	8.3fcd	4.7fcd	3fcd	2.1fcd	1.5fcd	1.2fcd	0.9fcd	0.8fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
100.5°	134.4°	156.7°	90.7%	66.9%



ISO Diagrams

ISO candela diagram



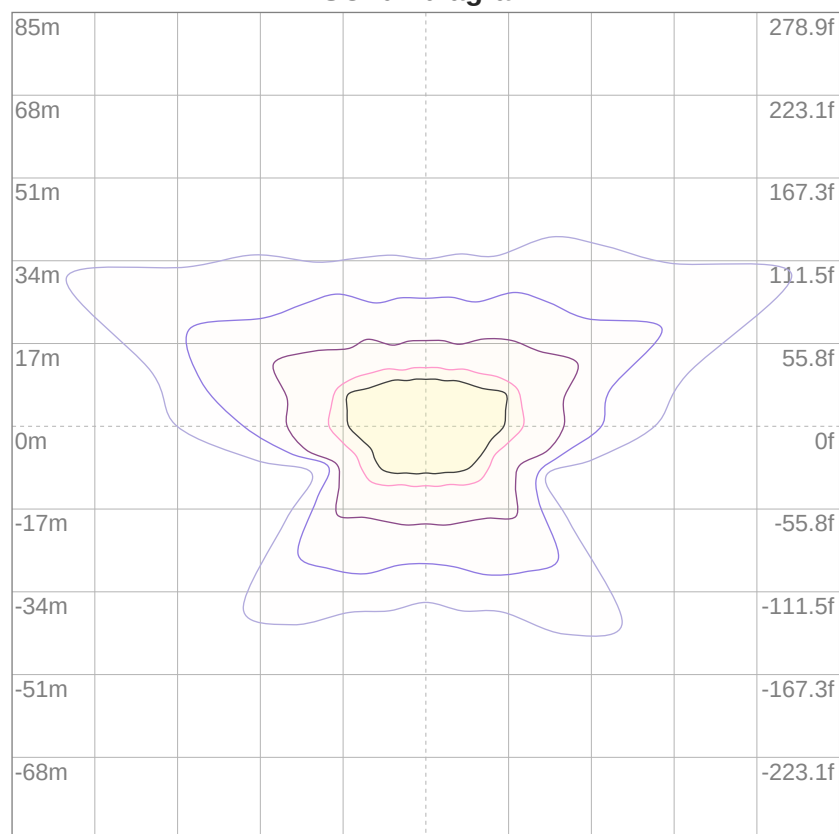
10%	81 cd
20%	162 cd
30%	243 cd
40%	323 cd
50%	404 cd
60%	485 cd
70%	566 cd
80%	647 cd
90%	728 cd

Conditions:

Number of c-planes: 16

Candela at center: 809 cd

ISO lux diagram



3%	0.243 lx
5%	0.404 lx
10%	0.809 lx
30%	2.43 lx
50%	4.04 lx

Conditions:

Number of c-planes: 16

Lux at center: 8.09 lx

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



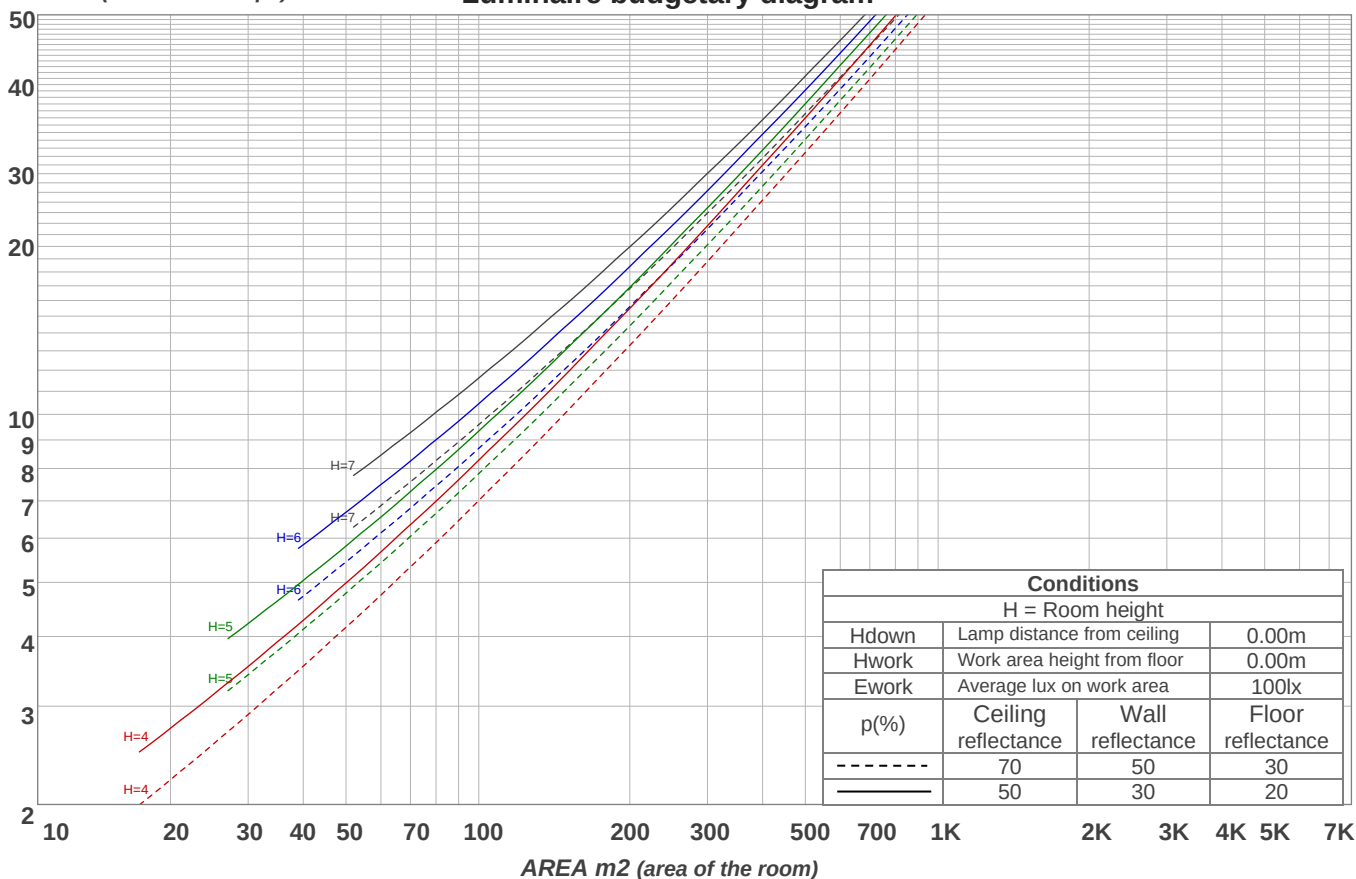
Light Planning

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	99
1	111	107	103	100	108	105	101	99	100	98	95	96	94	92	93	91	90	88
2	102	95	90	85	100	93	88	84	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	75	71	68	66
4	87	76	69	63	85	75	68	62	73	66	61	70	65	61	68	64	60	58
5	80	69	61	55	78	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	31	41	35	31	30

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°
77.0 lm	225 lm	349 lm	415 lm	390 lm	266 lm	118 lm	39.3 lm	8.72 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1.56 lm	1.58 lm	1.63 lm	1.61 lm	1.51 lm	1.31 lm	1.04 lm	0.669 lm	0.242 lm

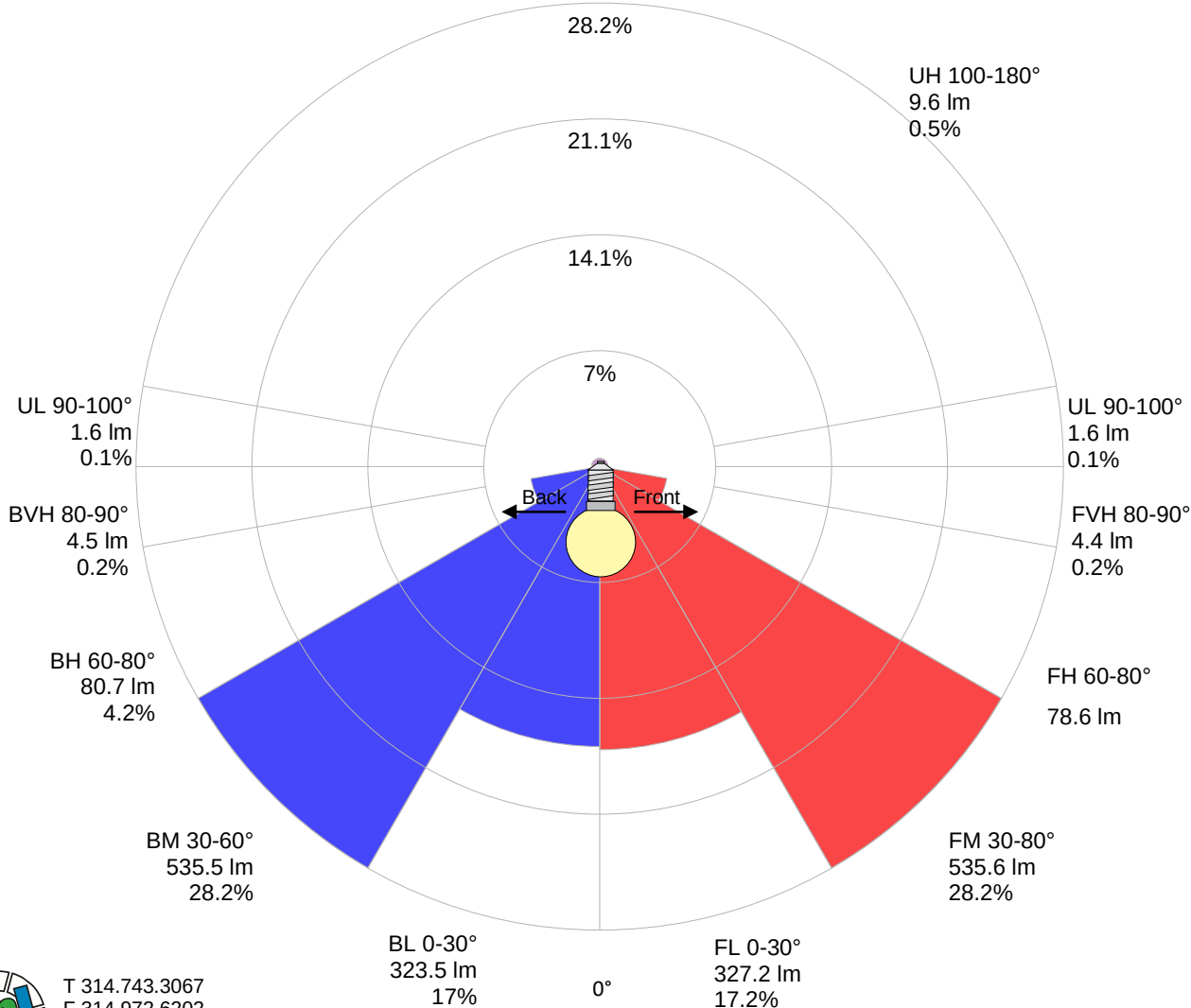


Road Report

LCS table

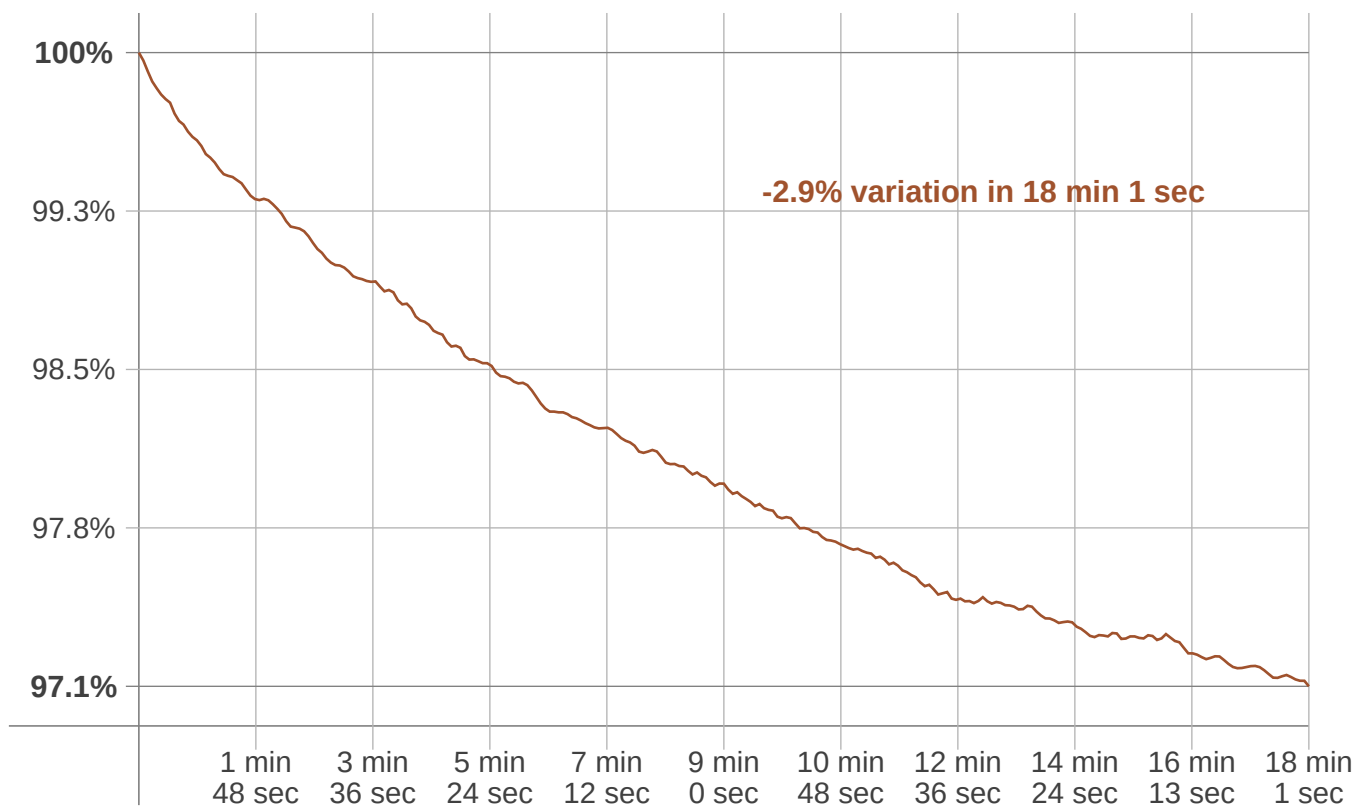
BUG rating:	B1 U1 G0	
Forward light	Lumens	Lumens %
Low(0-30):	327.2	17.2%
Medium(30-60):	535.6	28.2%
High(60-80):	78.6	4.1%
Very high(80-90):	4.4	0.2%
Back light		
Low(0-30):	323.5	17%
Medium(30-60):	535.5	28.2%
High(60-80):	80.7	4.2%
Very high(80-90):	4.5	0.2%
Uplight		
Low(90-100):	1.6	0.1%
High(100-180):	9.6	0.5%

LCS graph



Stabilization

Warmup curve



Warmup result

Warmup time:	18 min 1 sec
Warmup variation	-2.9%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
5221 K	+35 K	5256 K

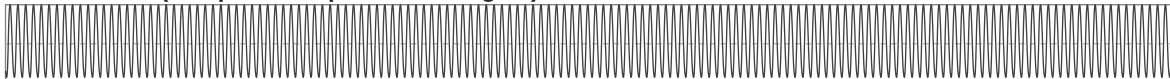
Output change

Output start	Output change	Output end
1953 lm	-52 lm	1901 lm

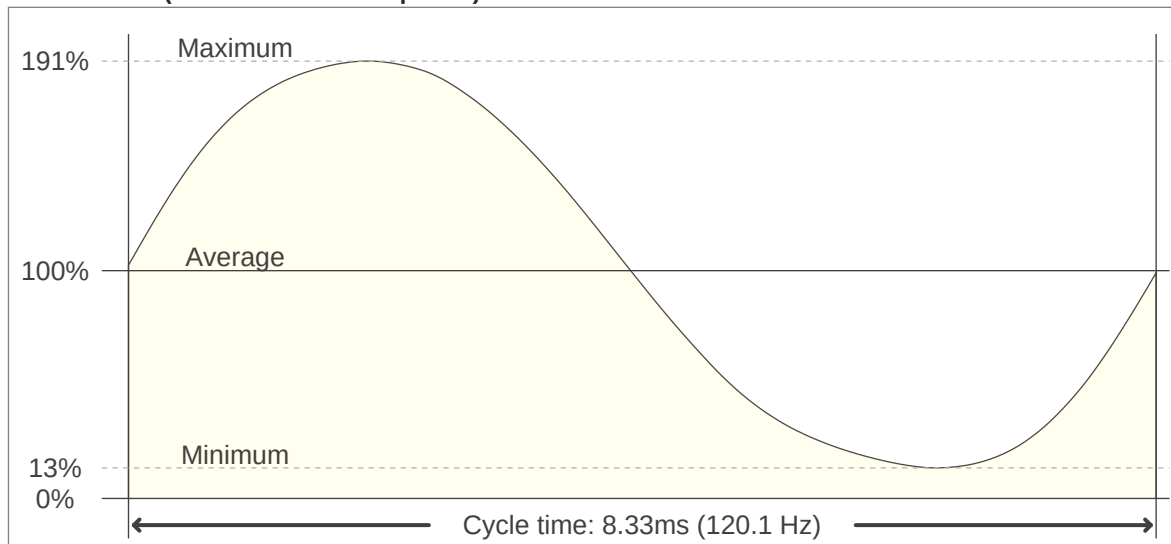


Flicker

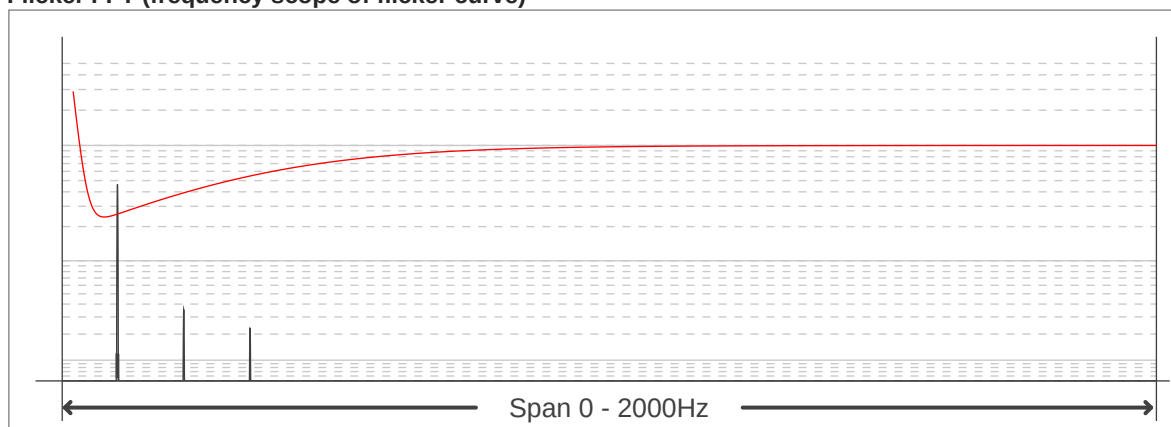
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:	120.12 Hz
Flicker index:	0.3
Flicker percentage:	86.97 %
SVM: (Visual flicker)	3.36

Flicker conditions:

Sample rate:	40000 samples/second
--------------	----------------------

