

Light efficiency:

120 Lumen/Watt

Output: 8608 lm

Light quality:

CRI: 84.5

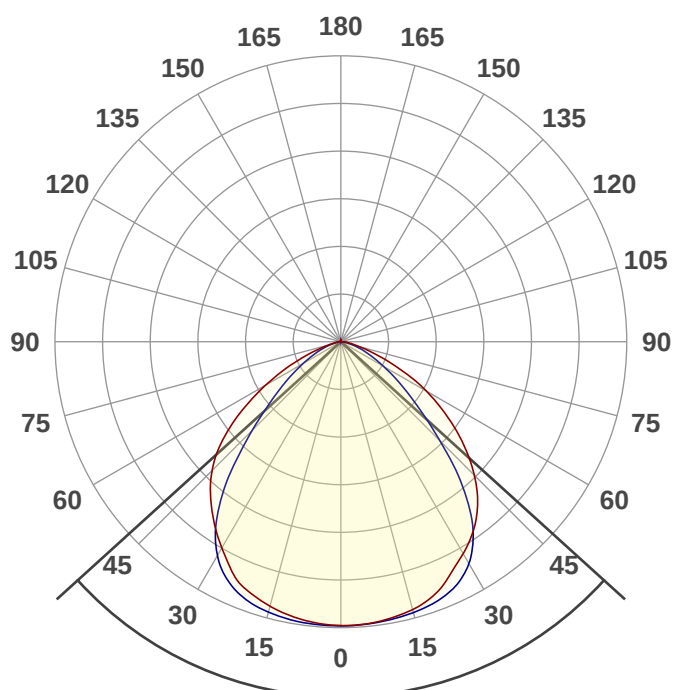
Peak: 3866 cd

Color temperature:

5277 K

Power: 71.9 W

PF: 1.0



Product name:

FLCCT-SW3570-SH8BRU

Date and time:

6/4/2020 1:27:51 PM

Beam angle

95.6°

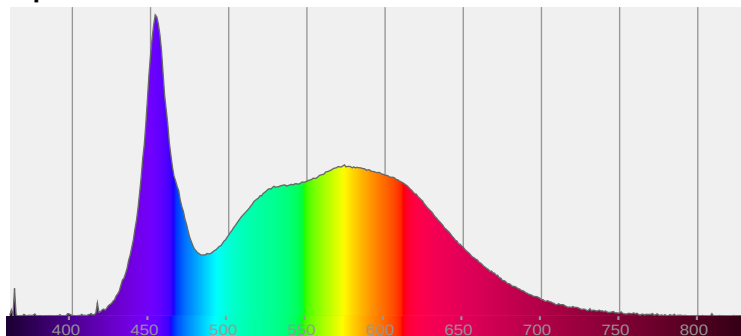


CIE 1931

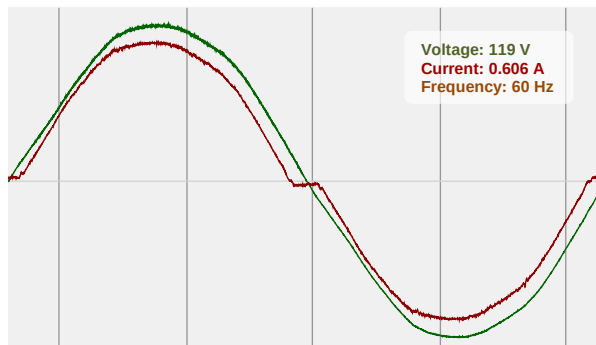
x: 0.338

y: 0.342

Spectra



Power



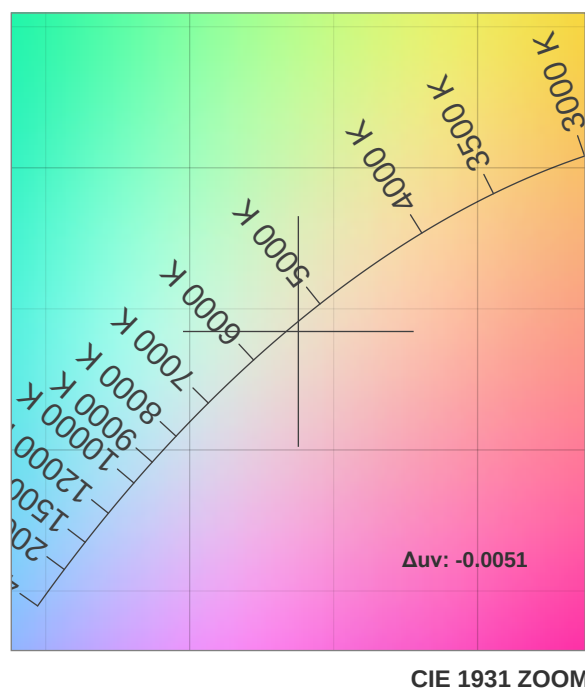
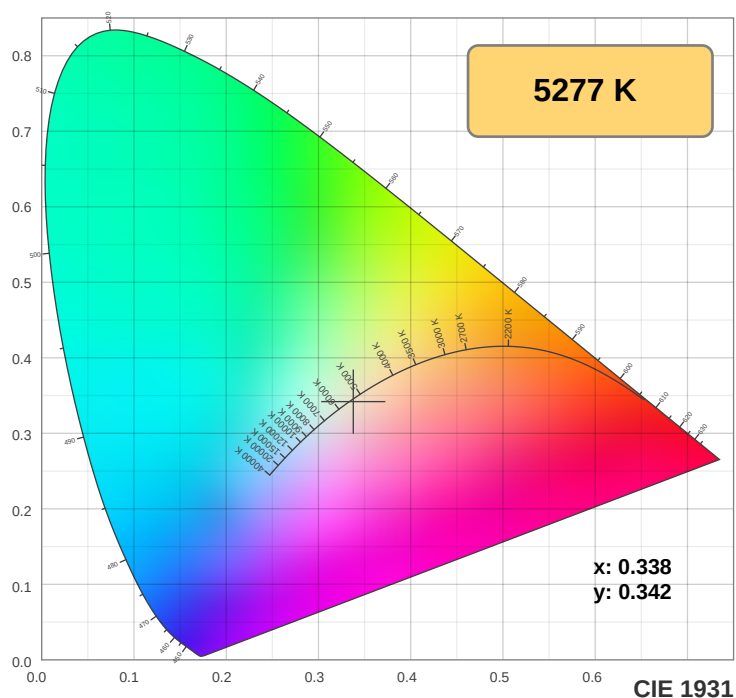
T 314.743.3067

F 314.972.6202

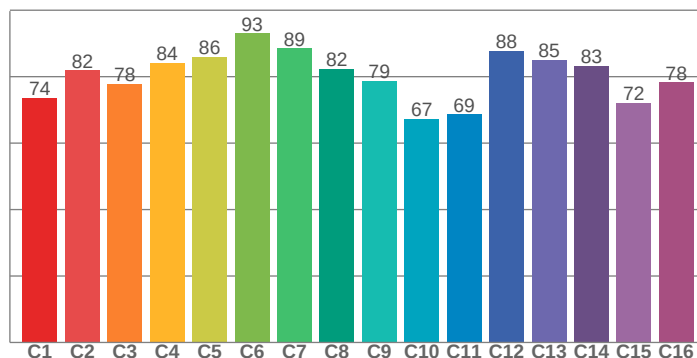
email: commercial-sales@superbrightleds.com

www.superbrightleds.com/

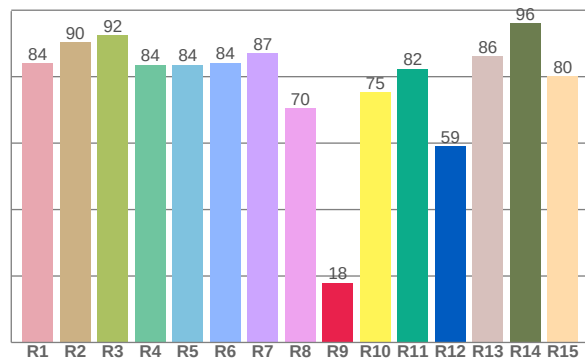
Color Specifications



TM30: 80.4



CRI: 84.5 (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
84.0	90.4	92.5	83.5	83.6	84.2	87.1	70.4	18.0	75.4	82.4	59.1	86.2	96.1	80.2

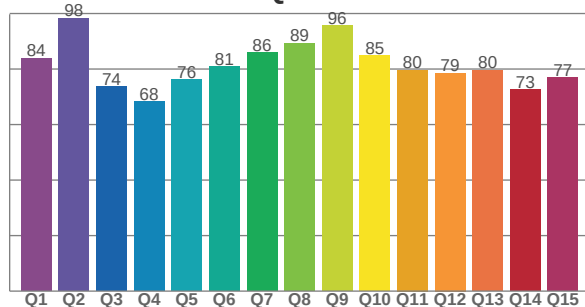
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
73.7	81.9	77.9	84.2	86.0	93.1	88.5	82.4	78.8	67.2	68.6	87.7	85.1	83.3	72.1	78.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83.9	98.3	73.7	68.3	76.2	80.9	85.8	89.3	95.6	84.8	79.7	78.5	79.6	72.6	76.9

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
5277 K	84.5	18.0	80.4	94.5	79.9	0.338	0.342	0.210	0.319	-0.0051



TM30 Report

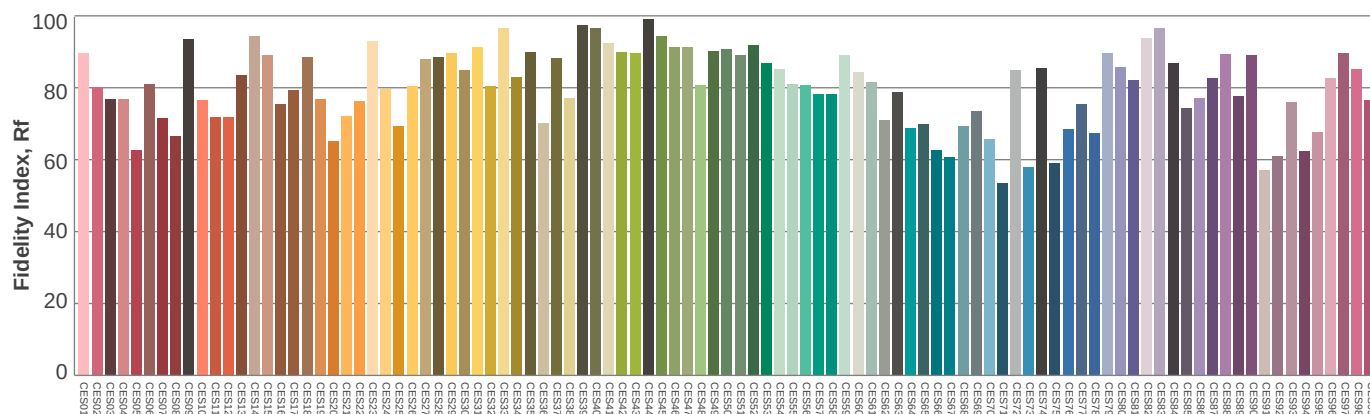
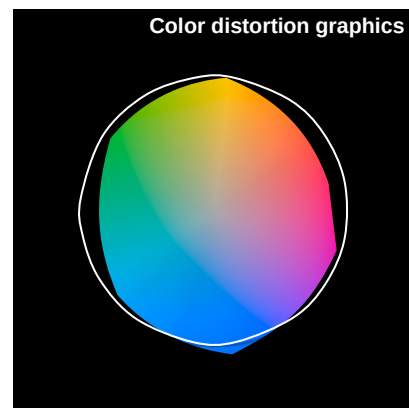
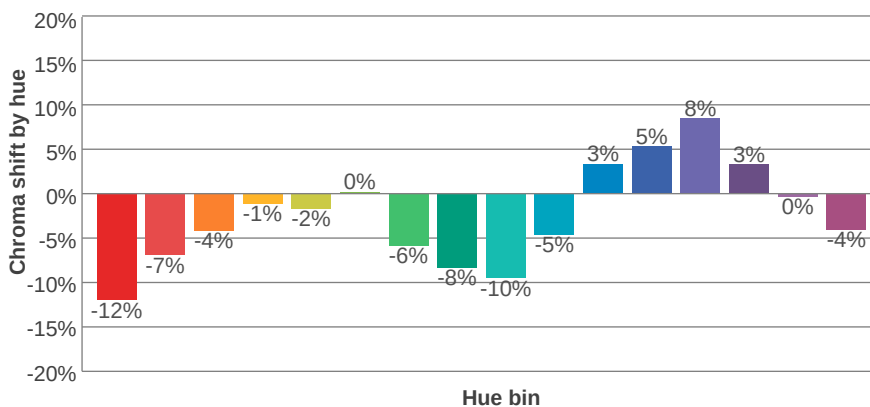
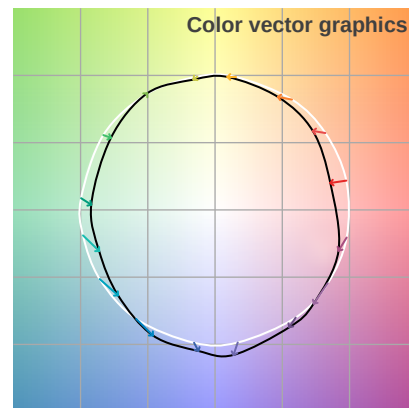
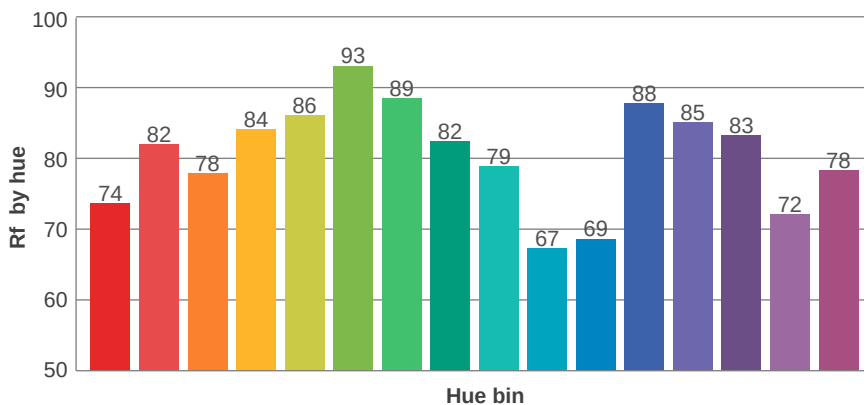
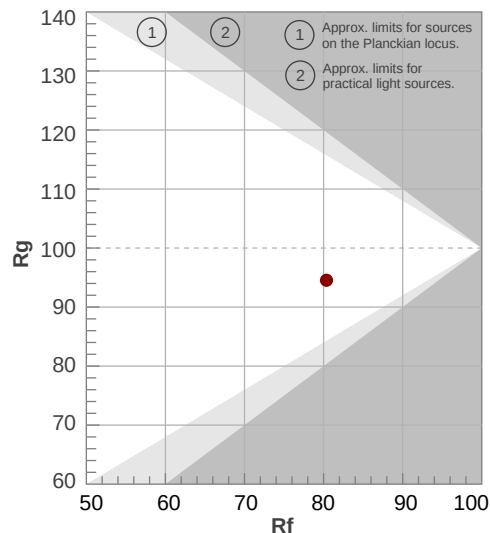
Rf 80.4

Fidelity index Rf

Rg 94.5

Gamut index Rg

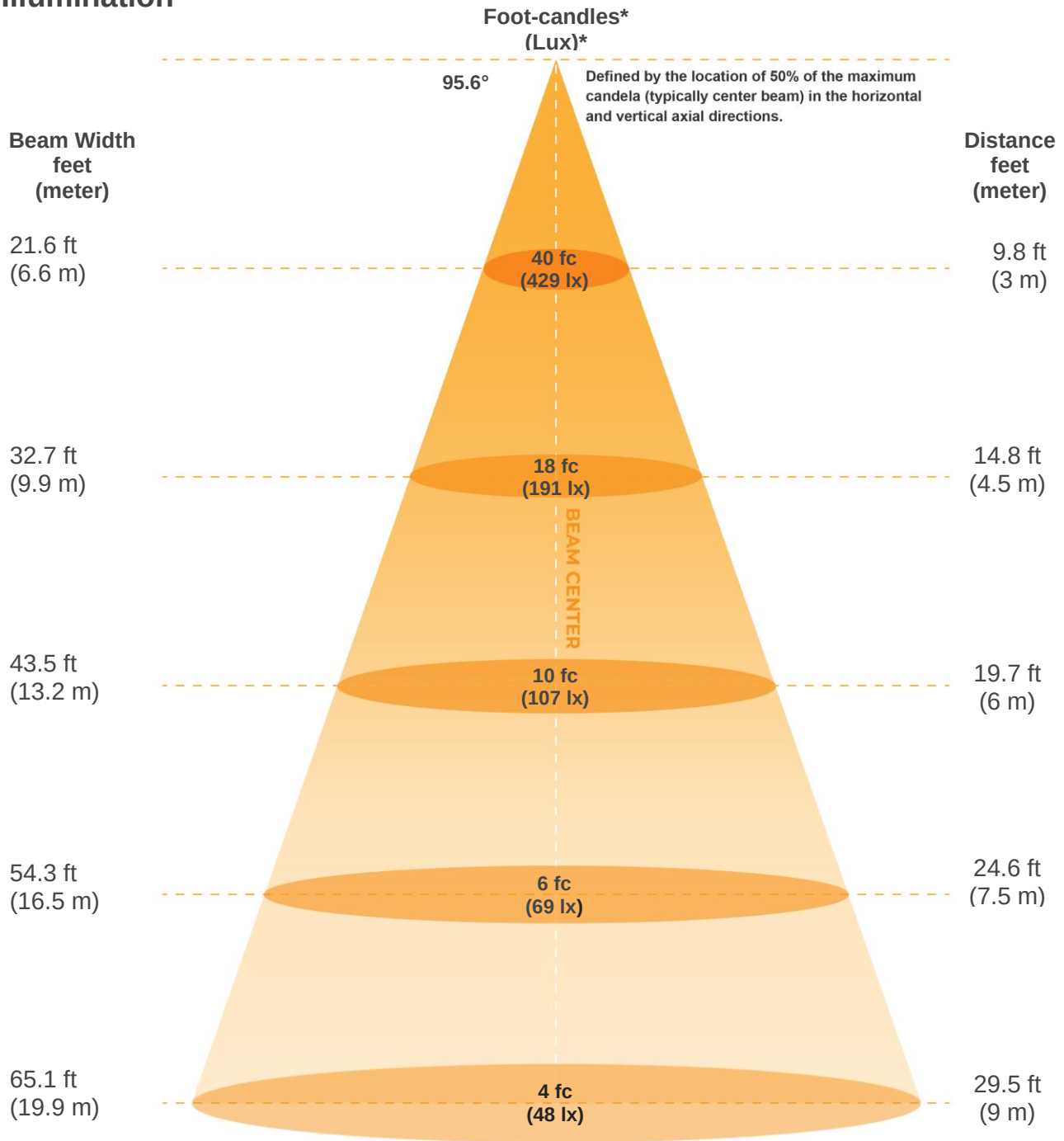
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	74	-12%	1%
2	82	-7%	6%
3	78	-4%	10%
4	84	-1%	6%
5	86	-2%	3%
6	93	0%	-1%
7	89	-6%	-2%
8	82	-8%	3%
9	79	-10%	14%
10	67	-5%	18%
11	69	3%	17%
12	88	5%	4%
13	85	8%	-5%
14	83	3%	-8%
15	72	0%	-18%
16	78	-4%	-11%



Color Evaluation Sample



Illumination



Beam intensities from 1-20m

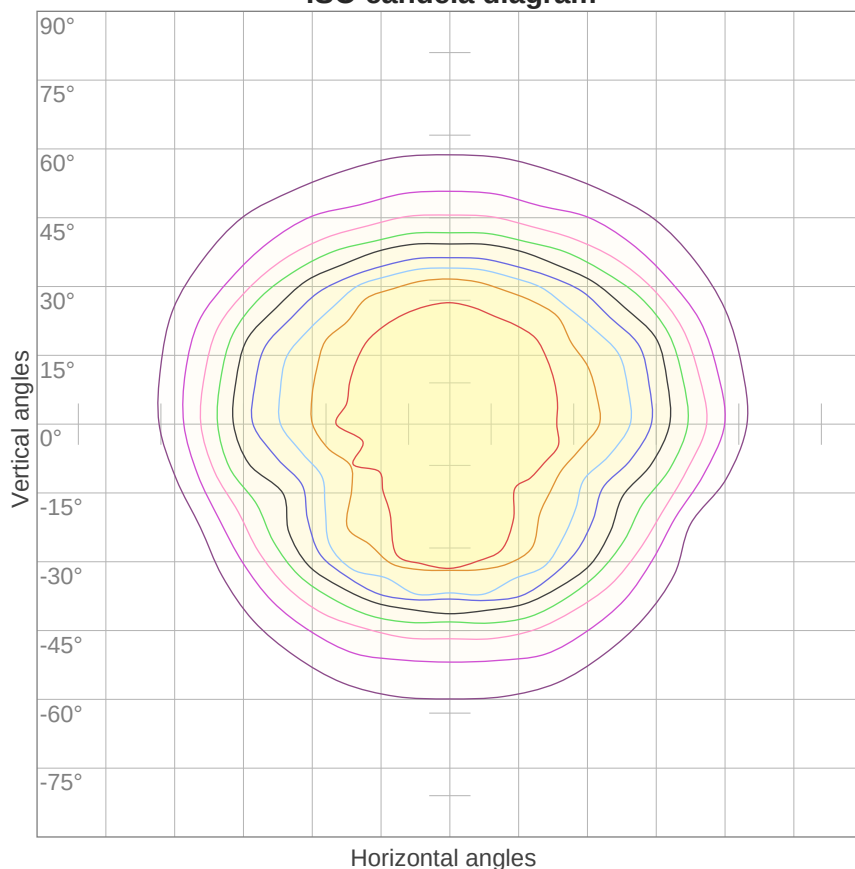
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
3860lx	965lx	429lx	241lx	154lx	107lx	79lx	60lx	48lx	39lx	32lx	27lx	23lx	20lx	17lx	15lx	13lx	12lx	11lx	10lx
358.6fc	89.7fcd	39.8fcd	22.4fcd	14.3fcd	10fcd	7.3fcd	5.6fcd	4.4fcd	3.6fcd	3fcd	2.5fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
95.6°	137.4°	159.5°	89.6%	67.4%



ISO Diagrams

ISO candela diagram



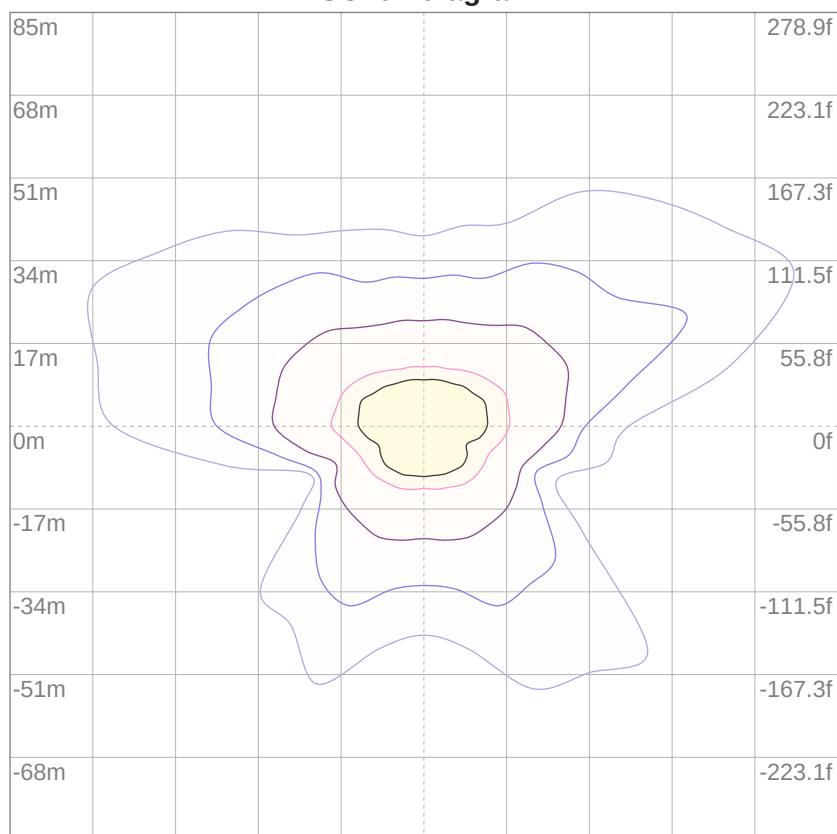
10%	386 cd
20%	772 cd
30%	1158 cd
40%	1544 cd
50%	1930 cd
60%	2316 cd
70%	2702 cd
80%	3088 cd
90%	3474 cd

Conditions:

Number of c-planes: 16

Candela at center: 3860 cd

ISO lux diagram



3%	1.16 lx
5%	1.93 lx
10%	3.86 lx
30%	11.6 lx
50%	19.3 lx

Conditions:

Number of c-planes: 16

Lux at center: 38.6 lx

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



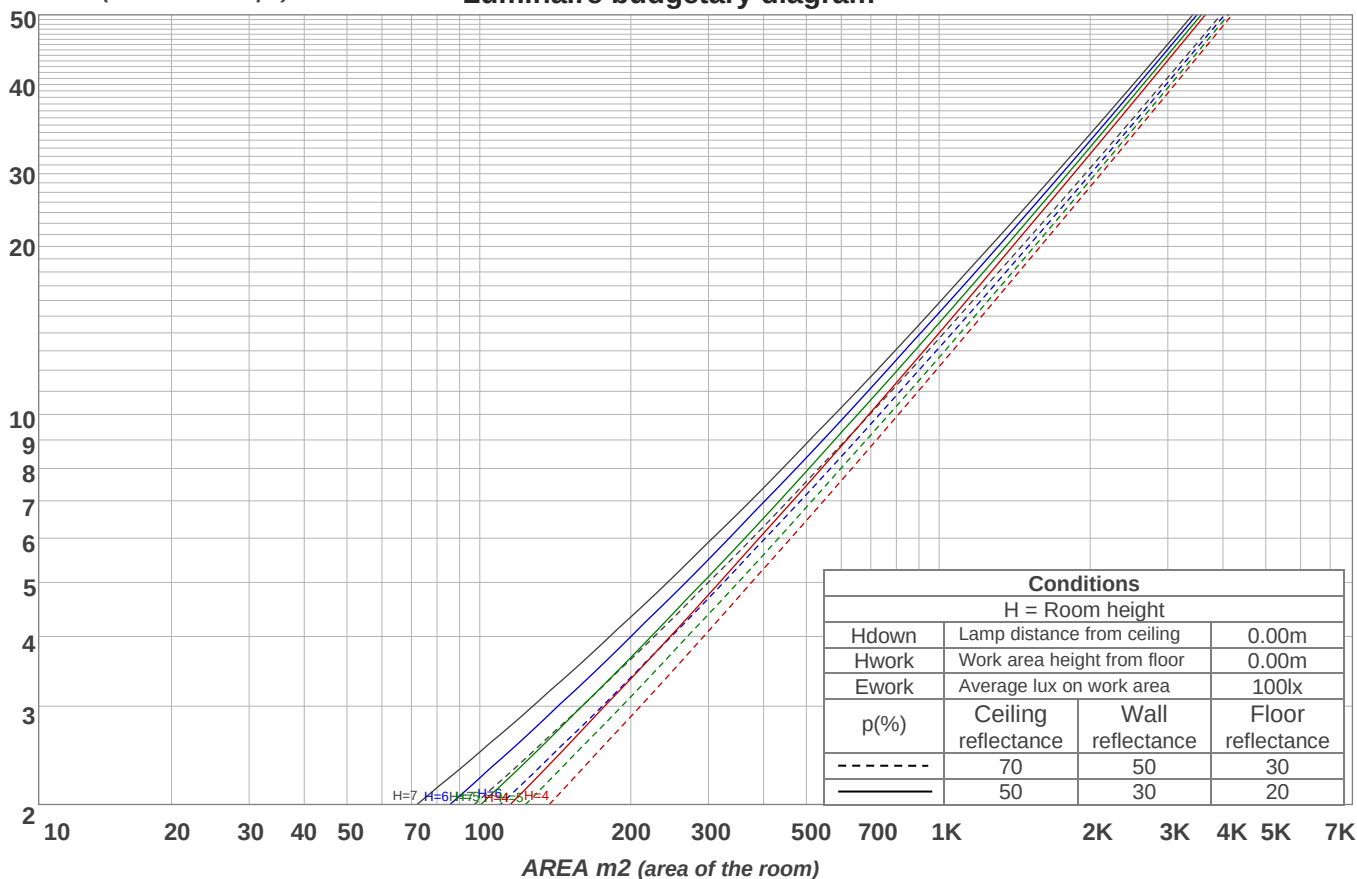
Light Planning

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	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	95	89	84	100	93	88	83	90	85	81	86	83	80	83	80	78	76
3	94	85	78	72	92	83	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	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	51	47	45
7	70	57	49	43	68	56	49	43	55	48	43	53	47	43	52	47	42	41
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	42	38	36
9	61	48	41	35	60	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	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°
367 lm	1063 lm	1613 lm	1870 lm	1668 lm	1135 lm	573 lm	216 lm	57.8 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
5.70 lm	5.09 lm	5.82 lm	6.47 lm	6.59 lm	6.06 lm	5.02 lm	3.44 lm	1.24 lm

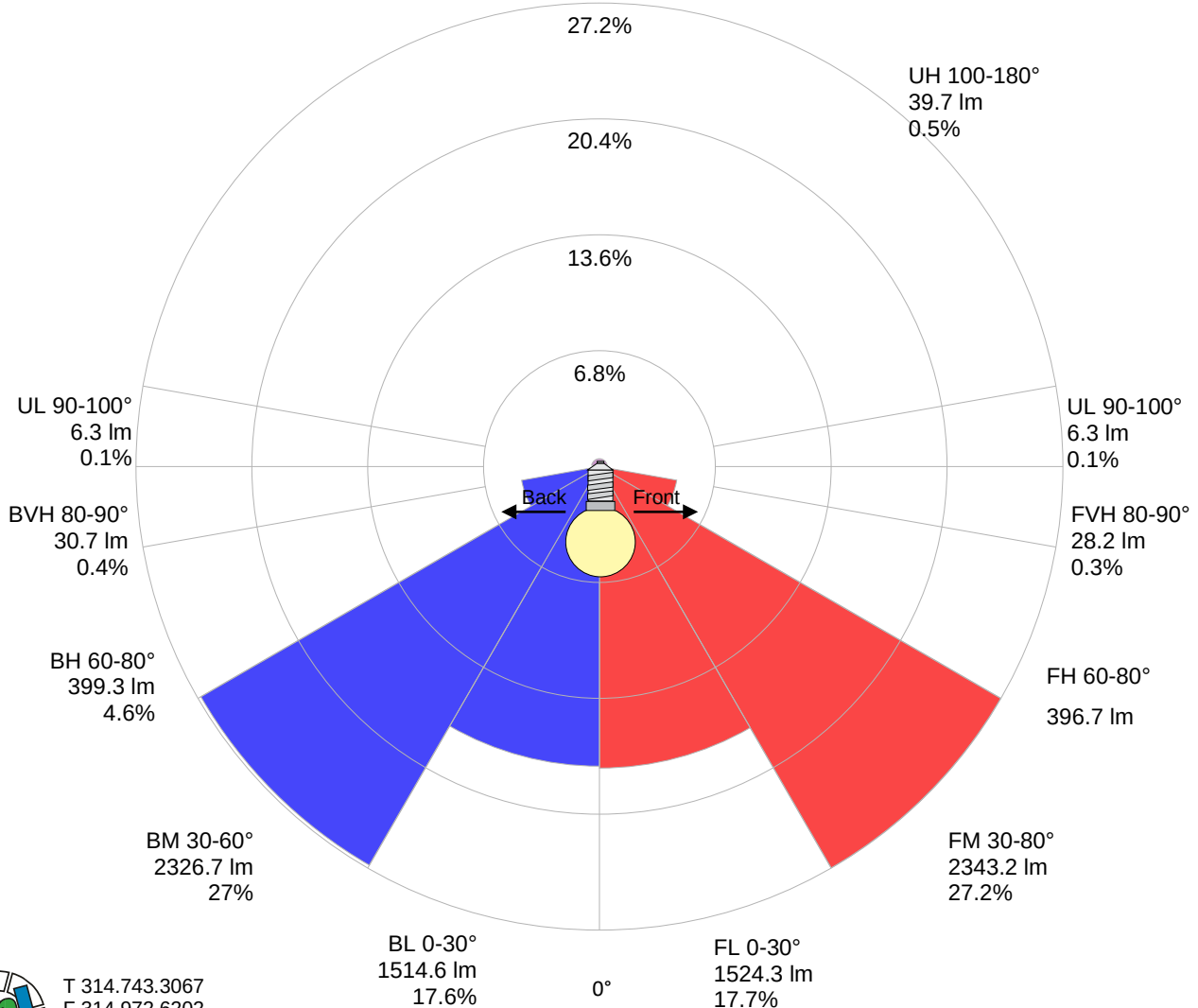


Road Report

LCS table

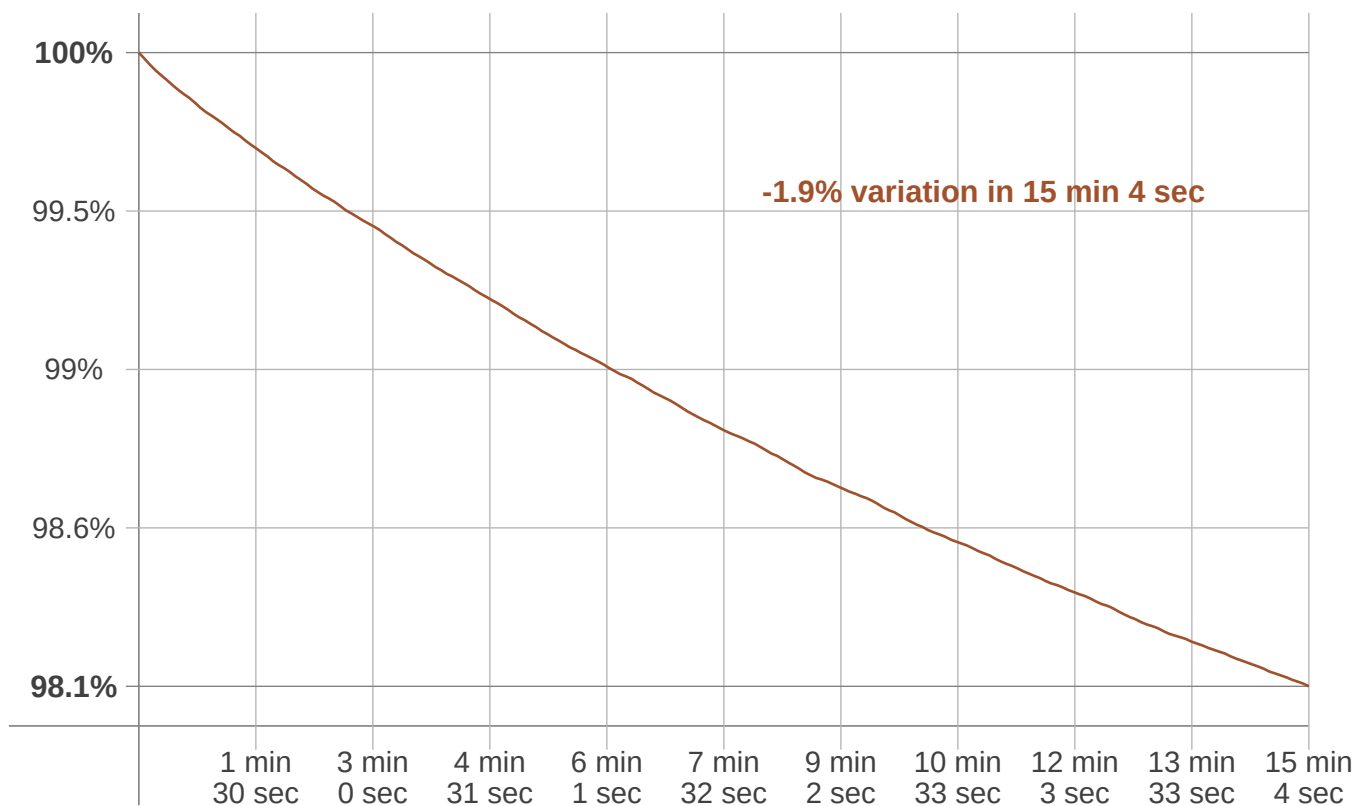
BUG rating:	B3 U2 G1	
Forward light	Lumens	Lumens %
Low(0-30):	1524.3	17.7%
Medium(30-60):	2343.2	27.2%
High(60-80):	396.7	4.6%
Very high(80-90):	28.2	0.3%
Back light		
Low(0-30):	1514.6	17.6%
Medium(30-60):	2326.7	27%
High(60-80):	399.3	4.6%
Very high(80-90):	30.7	0.4%
Uplight		
Low(90-100):	6.3	0.1%
High(100-180):	39.7	0.5%

LCS graph



Stabilization

Warmup curve



Warmup result

Warmup time:	15 min 4 sec
Warmup variation	-1.9%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
5232 K	+45 K	5277 K

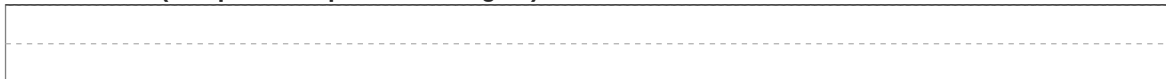
Output change

Output start	Output change	Output end
8770 lm	-162 lm	8608 lm

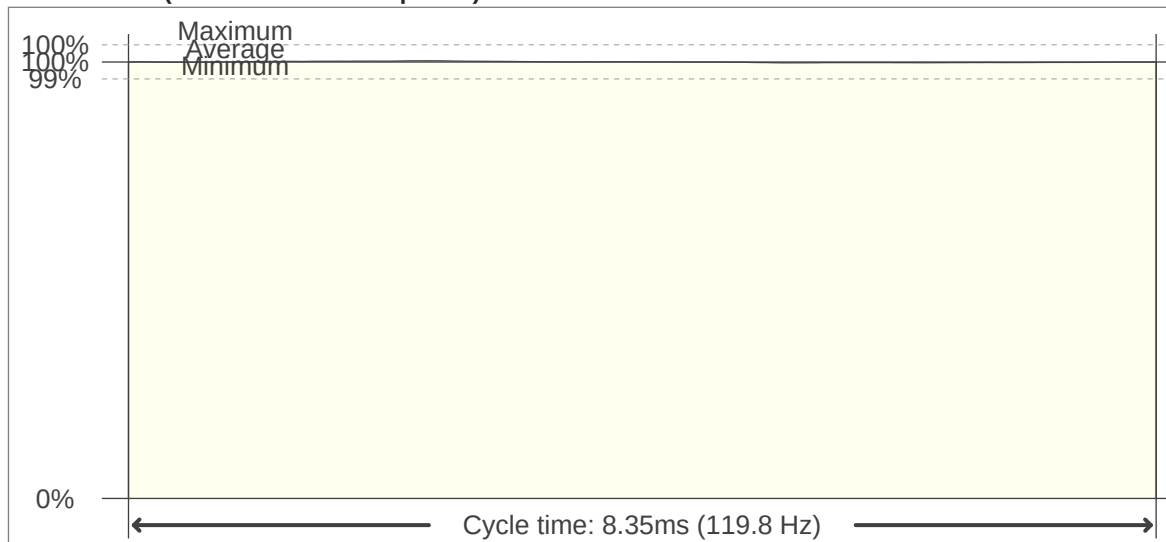


Flicker

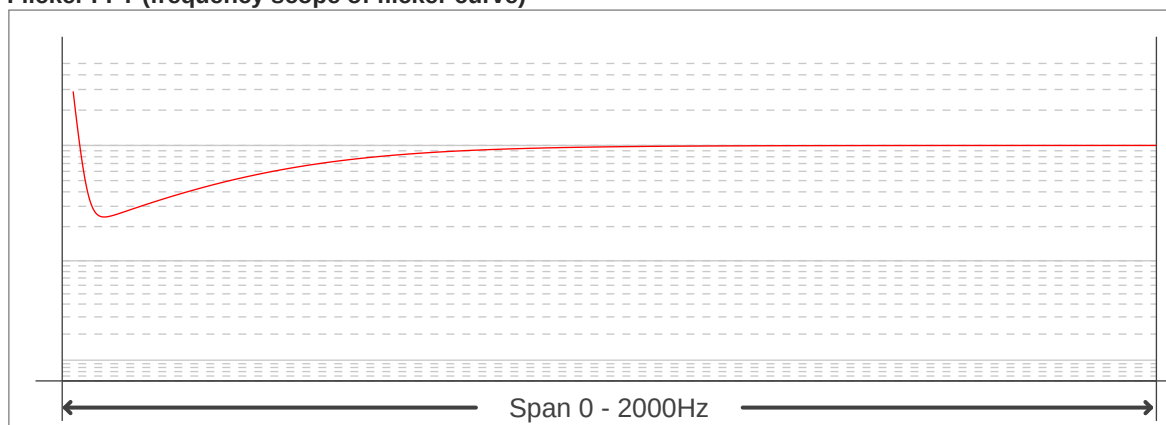
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:	119.76 Hz
Flicker index:	0
Flicker percentage:	0.27 %
SVM: (Visual flicker)	0.01

Flicker conditions:

Sample rate:	40000 samples/second
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