

Light efficiency:

133 Lumen/Watt

Output: 3399 lm

Light quality:

CRI: 73.1

Peak: 2902 cd

Color temperature:

5442 K

Power: 25.5 W

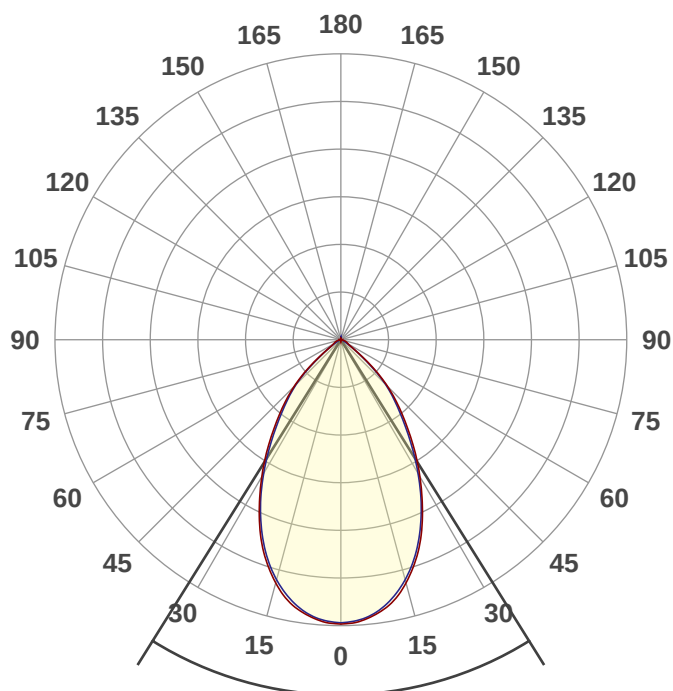
PF: 0.99

Product name:

WPRCCT-SW3B25-HST1-BRP

Date and time:

3/8/2021 2:21:14 PM



Beam angle

64°

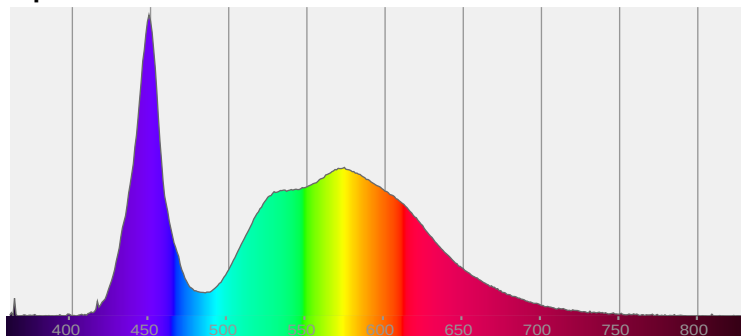


CIE 1931

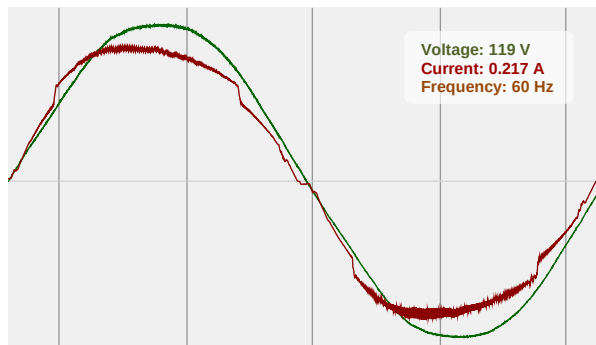
x: 0.334

y: 0.334

Spectra



Power



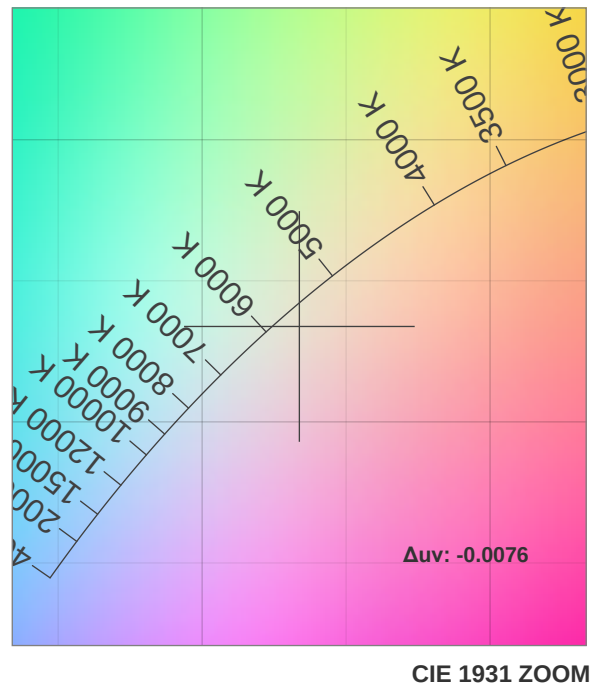
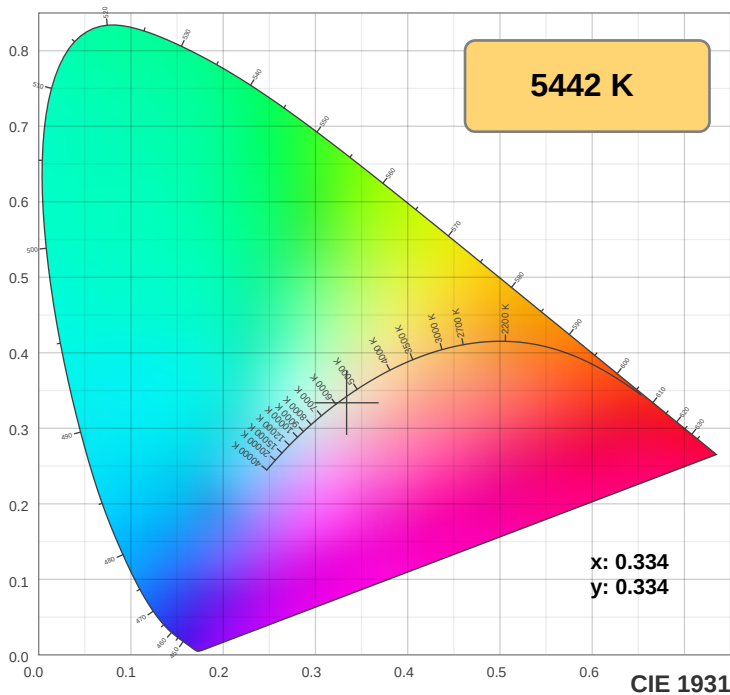
T 314.743.3067

F 314.972.6202

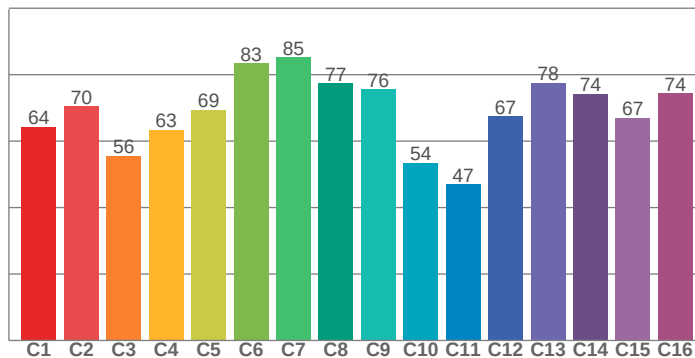
email: commercial-sales@superbrightleds.com

www.superbrightleds.com/

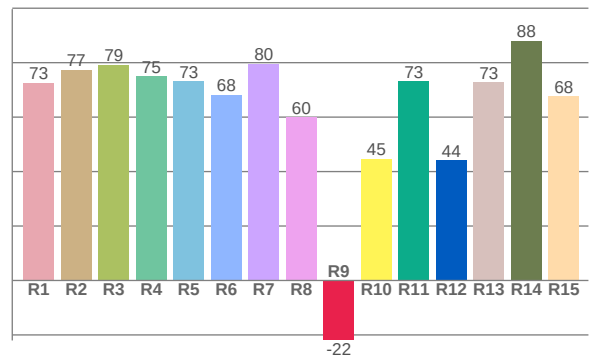
Color Specifications



TM30: 68.3



CRI: 73.1 (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
72.7	77.4	79.2	75.0	73.2	68.2	79.6	60.0	-22.0	44.7	73.3	44.2	72.8	88.1	67.6

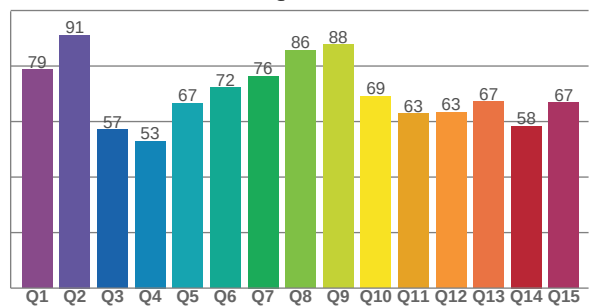
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
64.3	70.4	55.6	63.3	69.3	83.5	85.2	77.3	75.6	53.5	47.0	67.4	77.6	74.2	67.0	74.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78.6	91.2	57.1	53.0	66.6	72.2	76.4	85.7	87.8	69.1	62.8	63.3	67.1	58.4	66.7

CQS: 68.4



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
5442 K	73.1	-22.0	68.3	95.6	68.4	0.334	0.334	0.211	0.316	-0.0076



TM30 Report

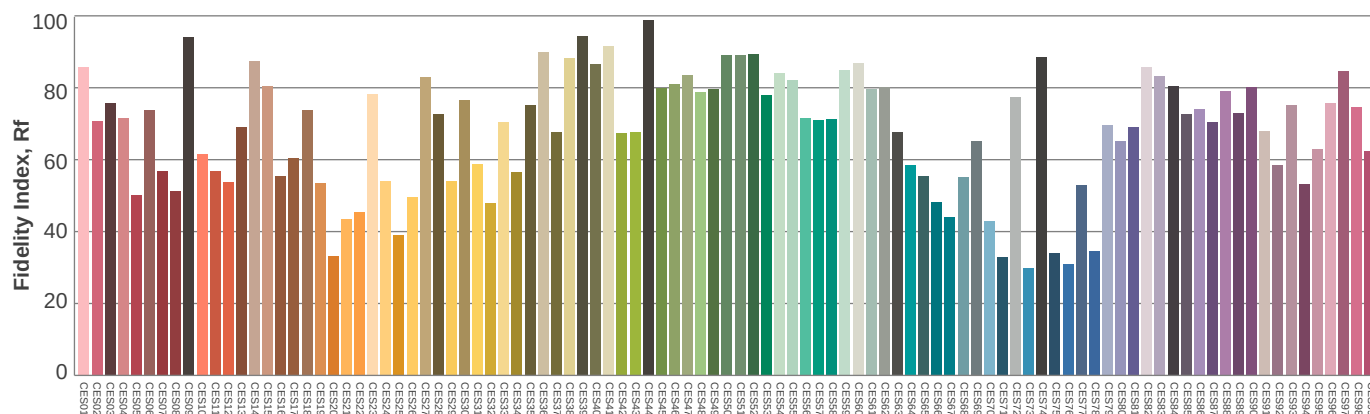
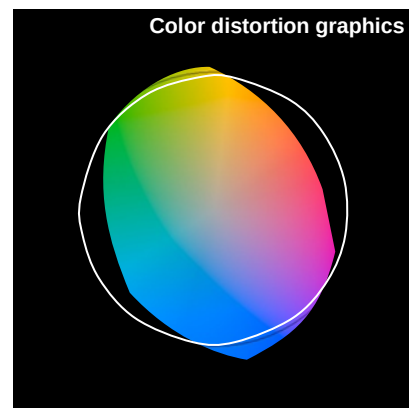
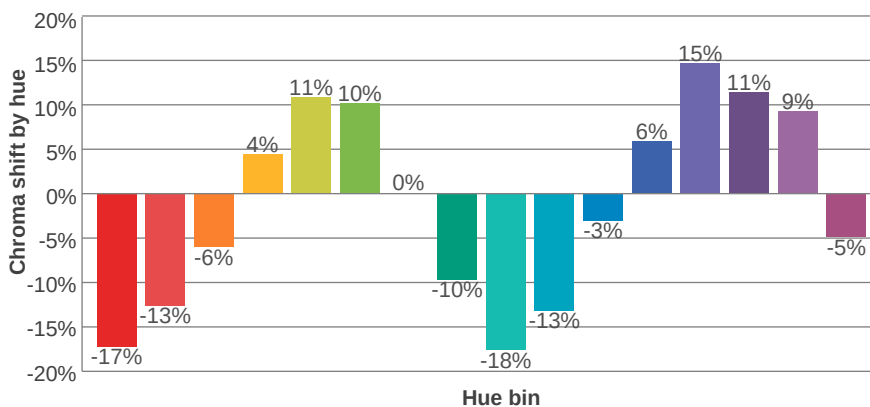
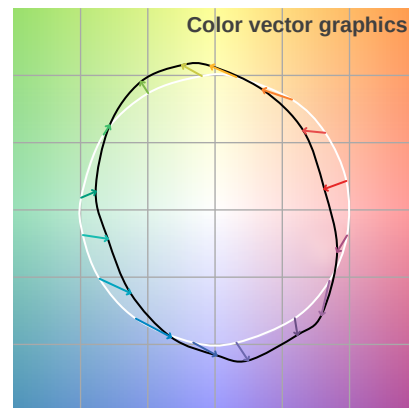
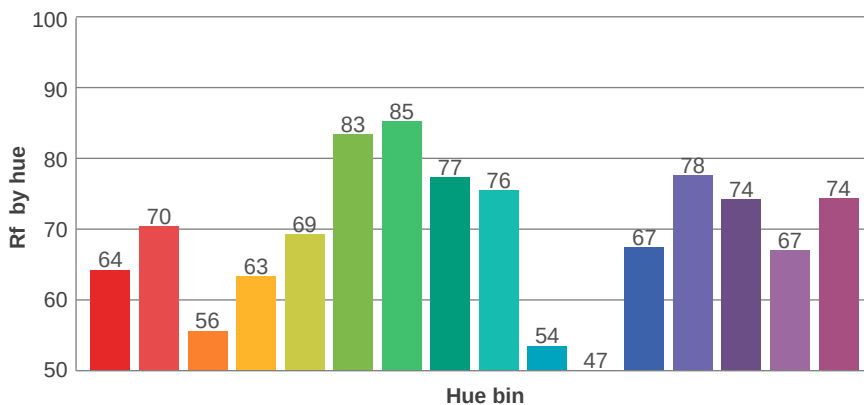
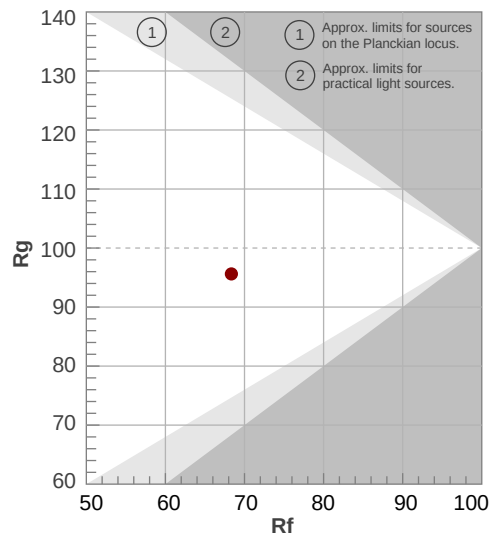
Rf 68.3

Fidelity index Rf

Rg 95.6

Gammut index Rg

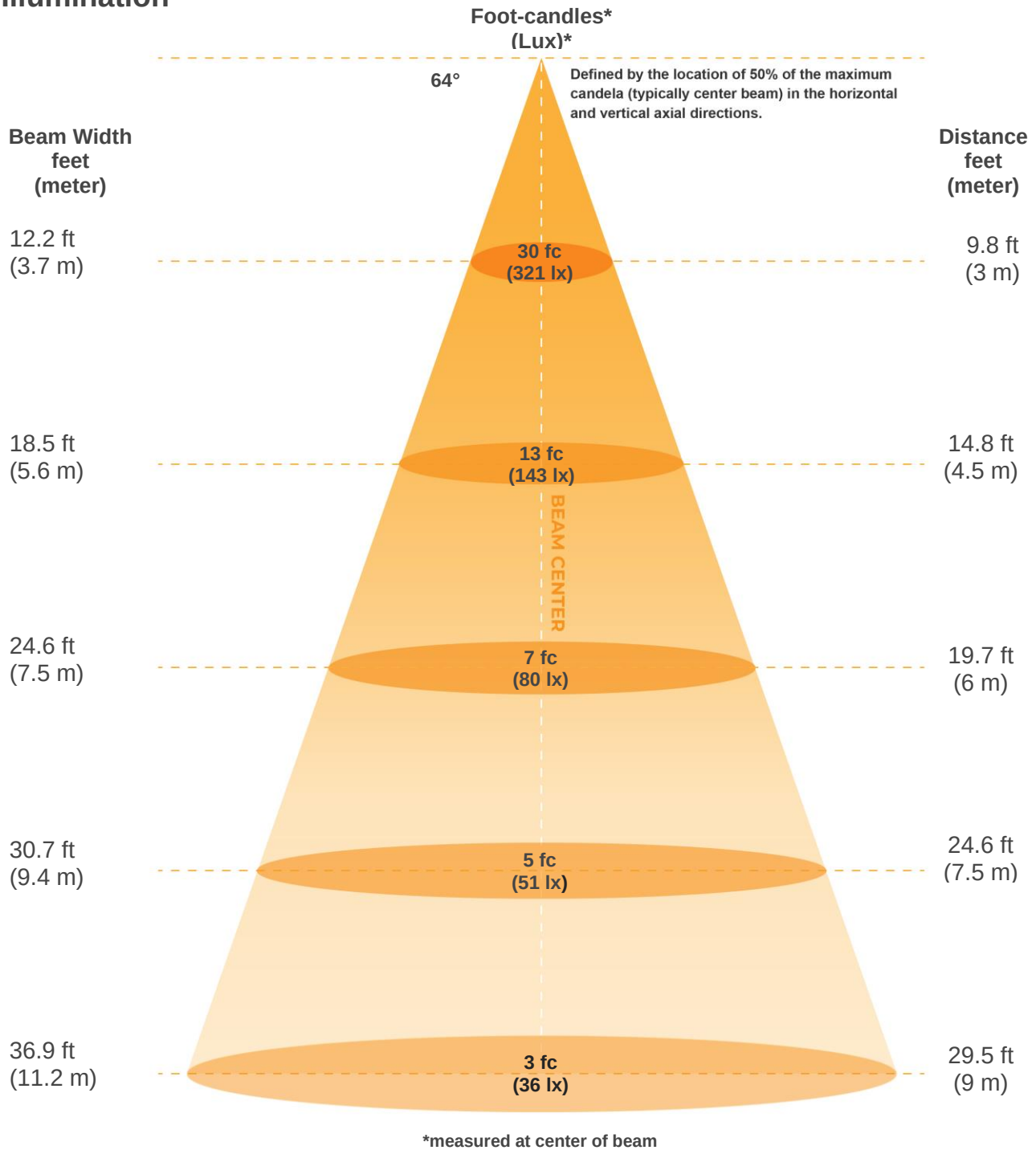
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	64	-17%	-3%
2	70	-13%	10%
3	56	-6%	22%
4	63	4%	20%
5	69	11%	13%
6	83	10%	0%
7	85	0%	-8%
8	77	-10%	-7%
9	76	-18%	6%
10	54	-13%	22%
11	47	-3%	29%
12	67	6%	19%
13	78	15%	6%
14	74	11%	-5%
15	67	9%	-24%
16	74	-5%	-13%



Color Evaluation Sample



Illumination



Beam intensities from 1-20m

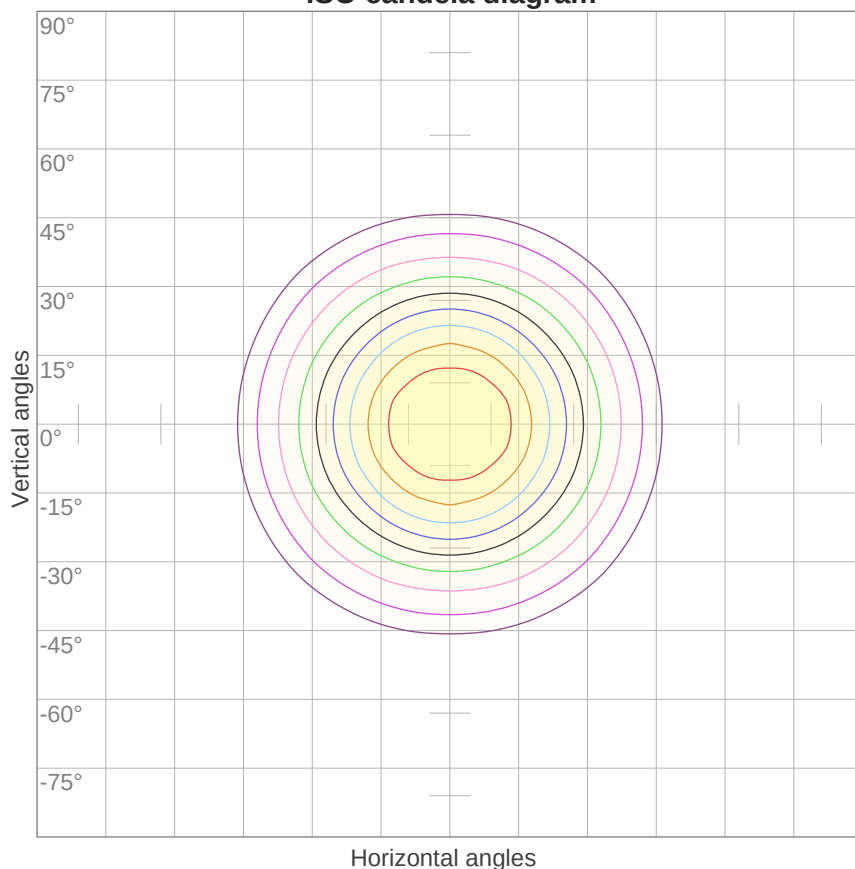
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
2893lx	723lx	321lx	181lx	116lx	80lx	59lx	45lx	36lx	29lx	24lx	20lx	17lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx
268.7fc	67.2fcd	29.9fcd	16.8fcd	10.7fcd	7.5fcd	5.5fcd	4.2fcd	3.3fcd	2.7fcd	2.2fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.7fcd

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
64°	103°	122°	97.2%	86.5%



ISO Diagrams

ISO candela diagram



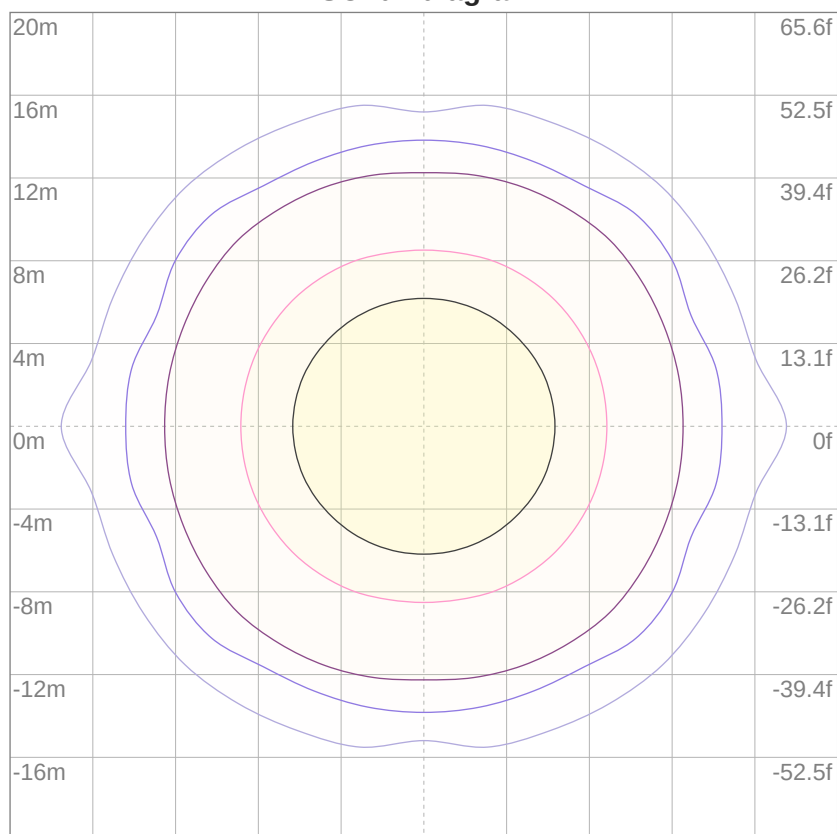
10%	289 cd
20%	579 cd
30%	868 cd
40%	1157 cd
50%	1446 cd
60%	1736 cd
70%	2025 cd
80%	2314 cd
90%	2603 cd

Conditions:

Number of c-planes: 16

Candela at center: 2893 cd

ISO lux diagram



3%	0.868 lx
5%	1.45 lx
10%	2.89 lx
30%	8.68 lx
50%	14.5 lx

Conditions:

Number of c-planes: 16

Lux at center: 28.9 lx

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



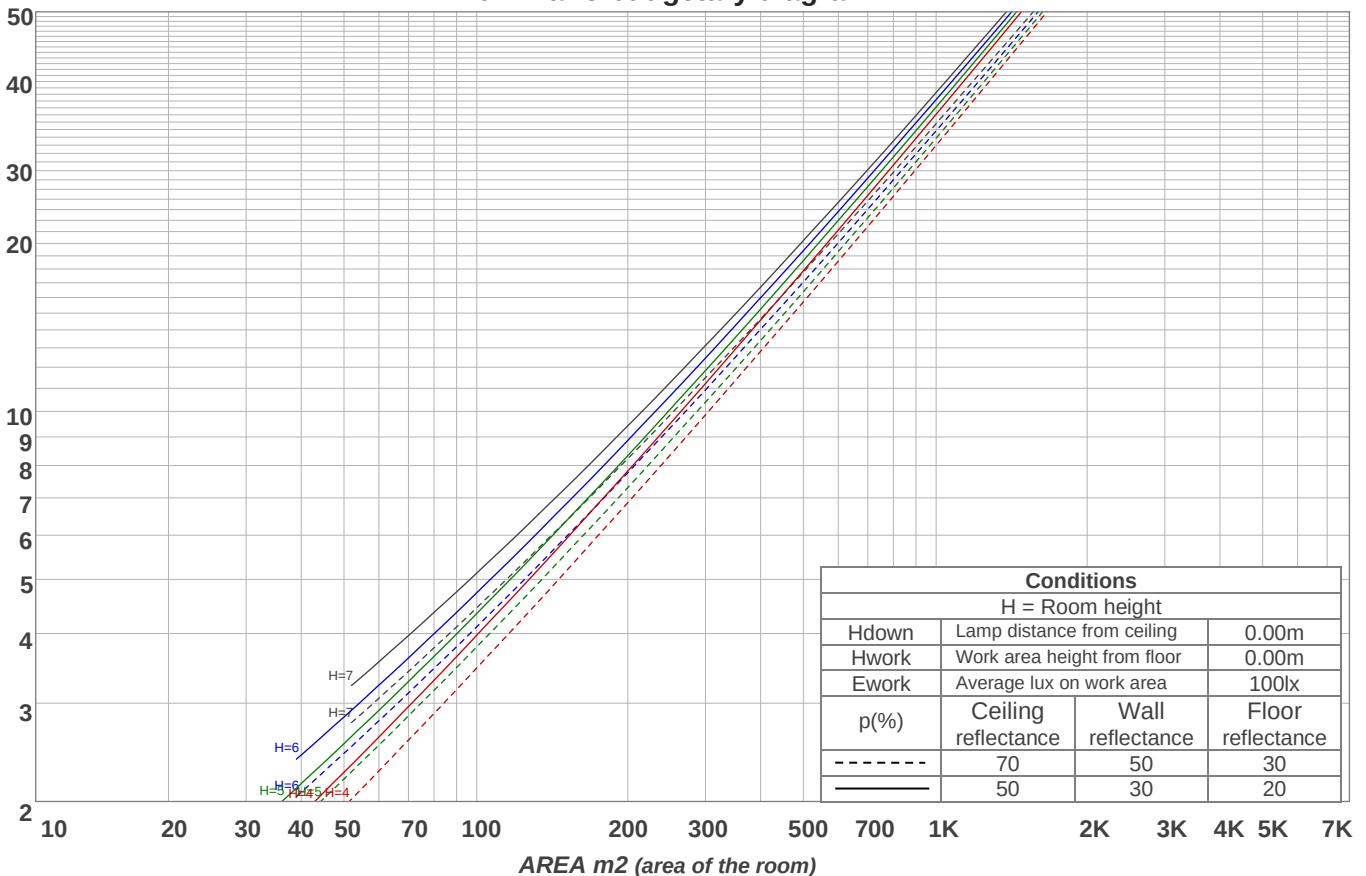
Light Planning

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	112	109	107	104	110	107	105	102	103	101	99	99	97	96	96	94	93	91
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75
4	93	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	70	69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58
7	78	67	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51	49
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47	46
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42

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°
269 lm	712 lm	891 lm	774 lm	506 lm	153 lm	51.2 lm	23.1 lm	5.20 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1.33 lm	1.36 lm	1.54 lm	1.91 lm	2.26 lm	2.34 lm	2.09 lm	1.46 lm	0.538 lm

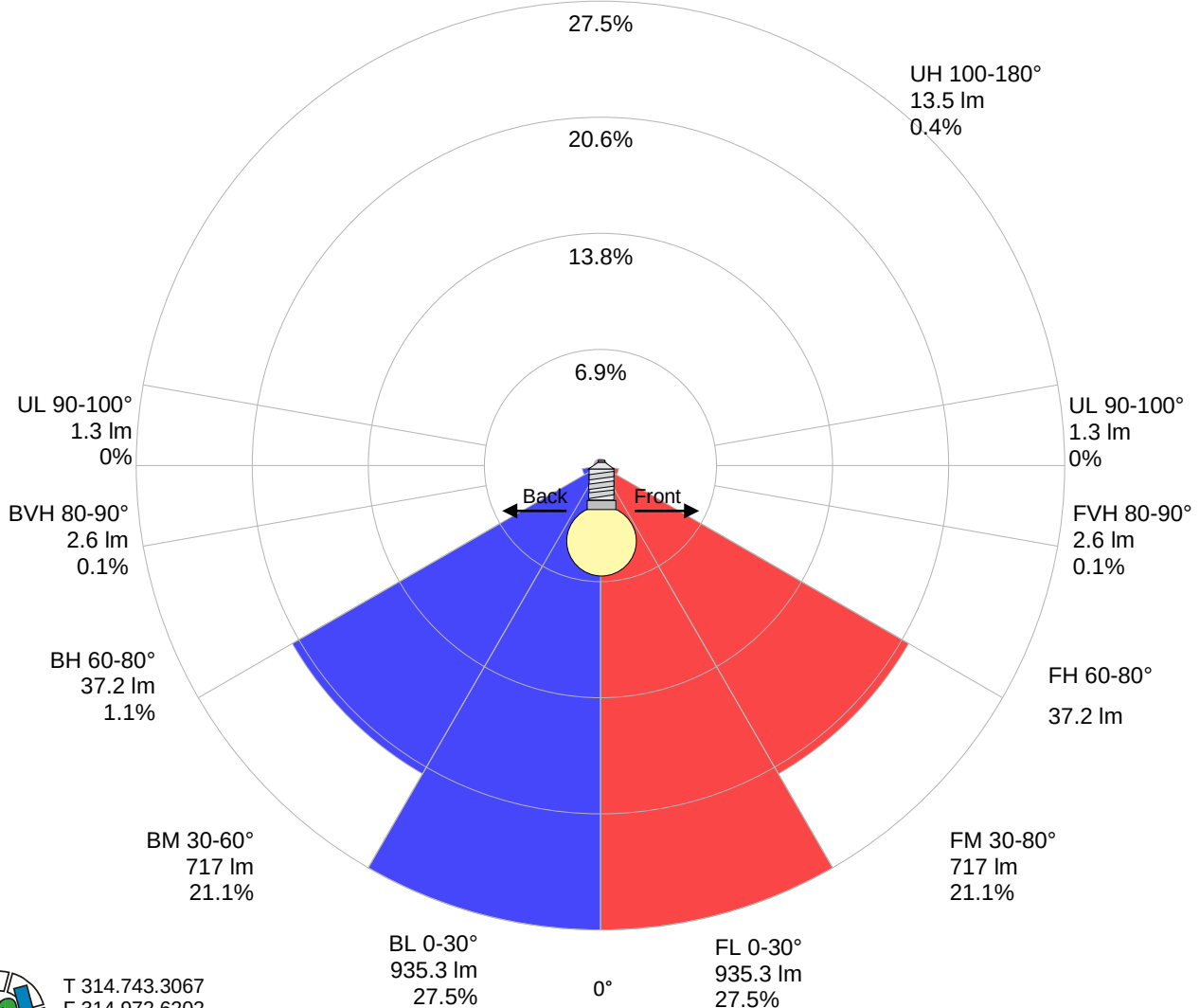


Road Report

LCS table

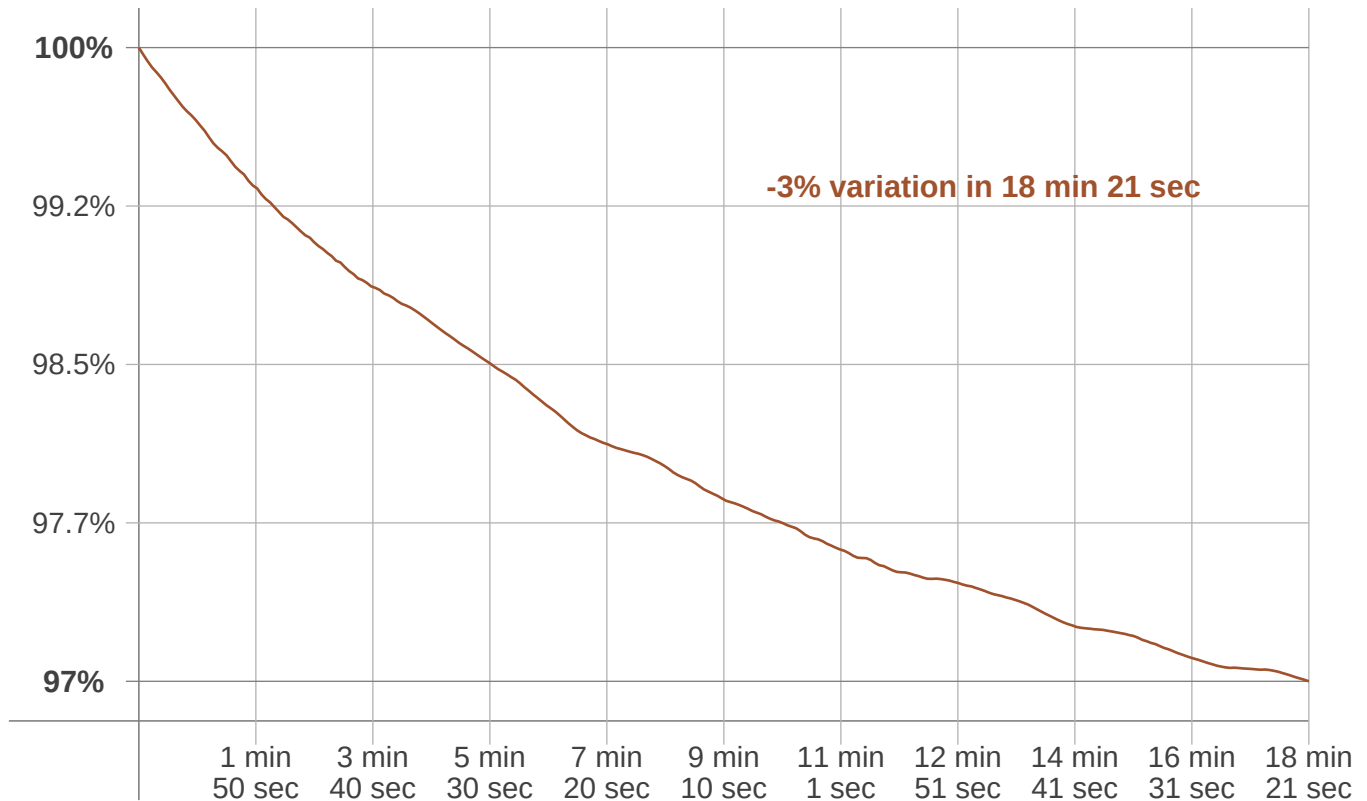
BUG rating:	B2 U2 G0	
Forward light	Lumens	Lumens %
Low(0-30):	935.3	27.5%
Medium(30-60):	717	21.1%
High(60-80):	37.2	1.1%
Very high(80-90):	2.6	0.1%
Back light		
Low(0-30):	935.3	27.5%
Medium(30-60):	717	21.1%
High(60-80):	37.2	1.1%
Very high(80-90):	2.6	0.1%
Uplight		
Low(90-100):	1.3	0%
High(100-180):	13.5	0.4%

LCS graph



Stabilization

Warmup curve



Warmup result

Warmup time:	18 min 21 sec
Warmup variation	-3.0%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
5392 K	+50 K	5442 K

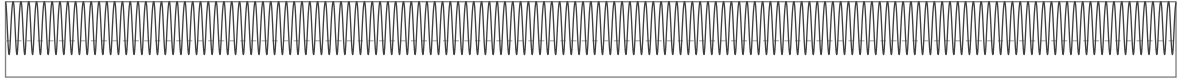
Output change

Output start	Output change	Output end
3501 lm	-101 lm	3399 lm

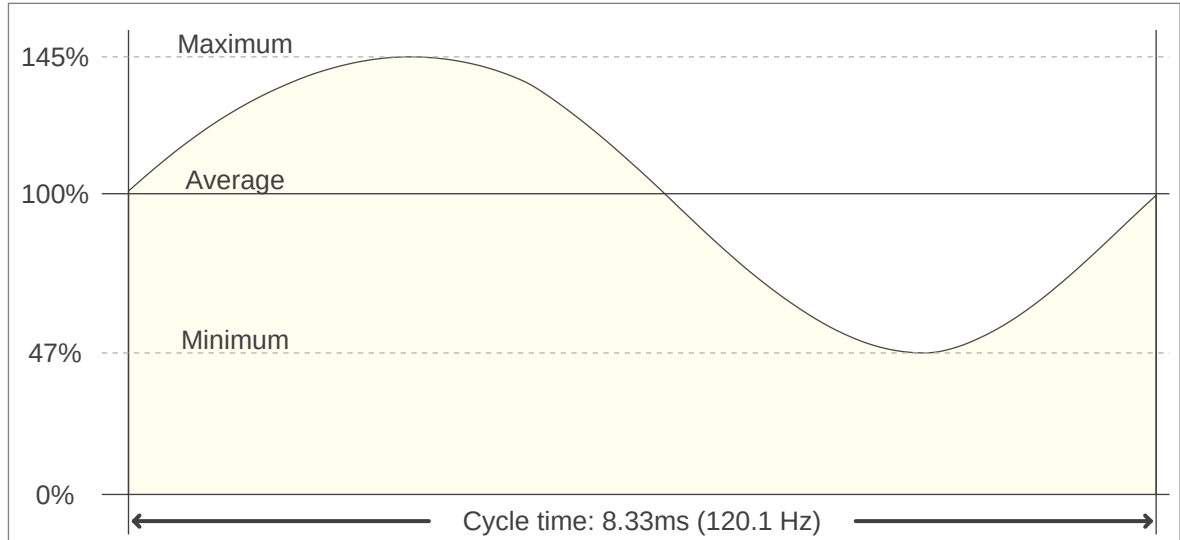


Flicker

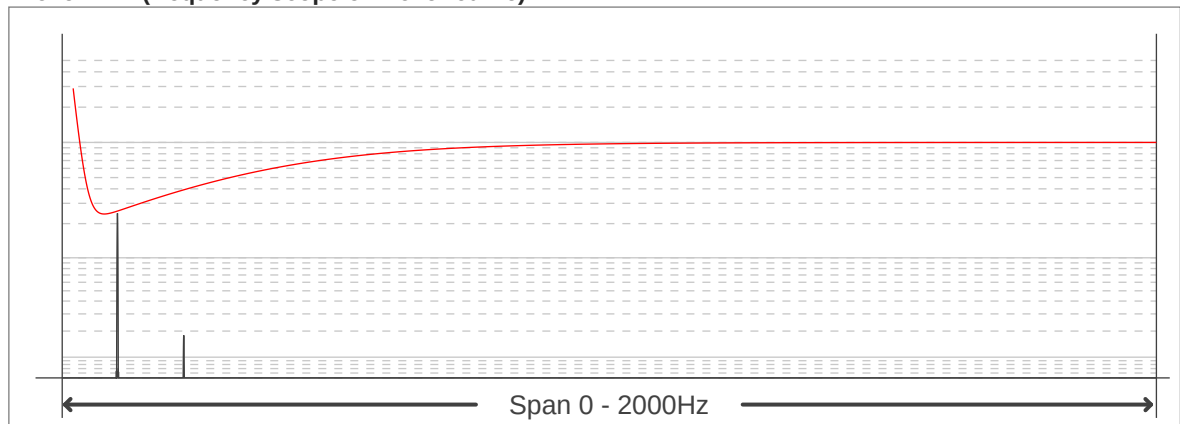
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:	120.12 Hz
Flicker index:	0.16
Flicker percentage:	51.17 %
SVM: (Visual flicker)	1.78

Flicker conditions:

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

