

Light efficiency:

124 Lumen/Watt

Output: 18682 lm

Light quality:

CRI: 85.1

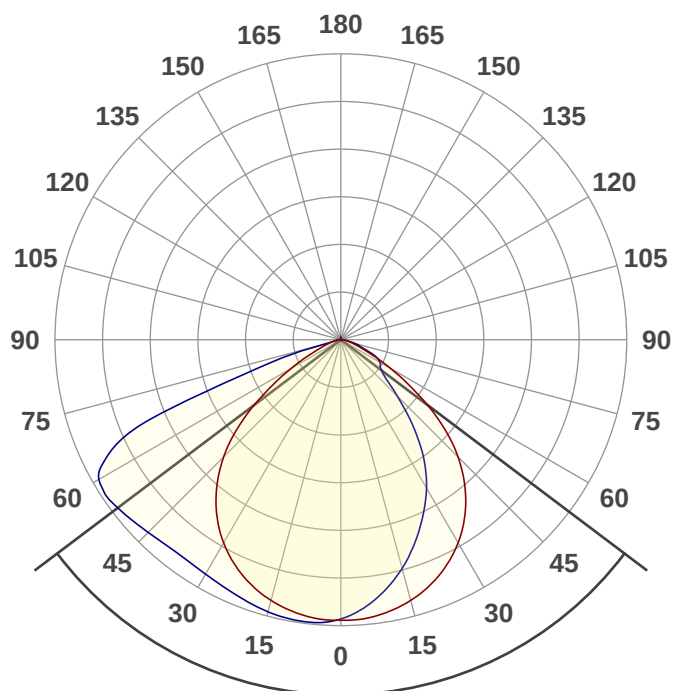
Peak: 7059 cd

Color temperature:

5253 K

Power: 151 W

PF: 0.99



Product name:

WPF CCT-SW3B150-ST3-BRP

Date and time:

5/13/2021 4:20:57 PM

Beam angle

106°

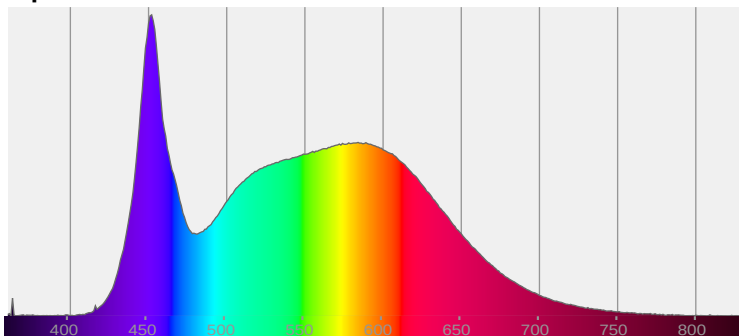


CIE 1931

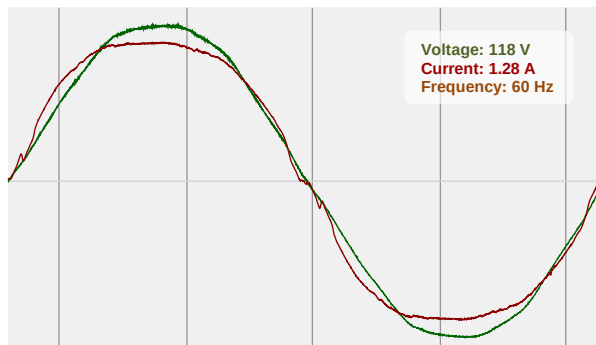
x: 0.339

y: 0.349

Spectra



Power



Voltage: 118 V
Current: 1.28 A
Frequency: 60 Hz



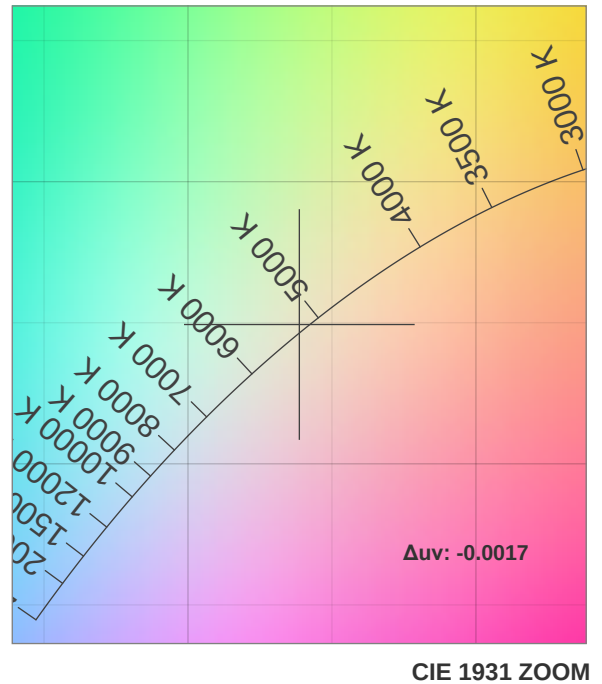
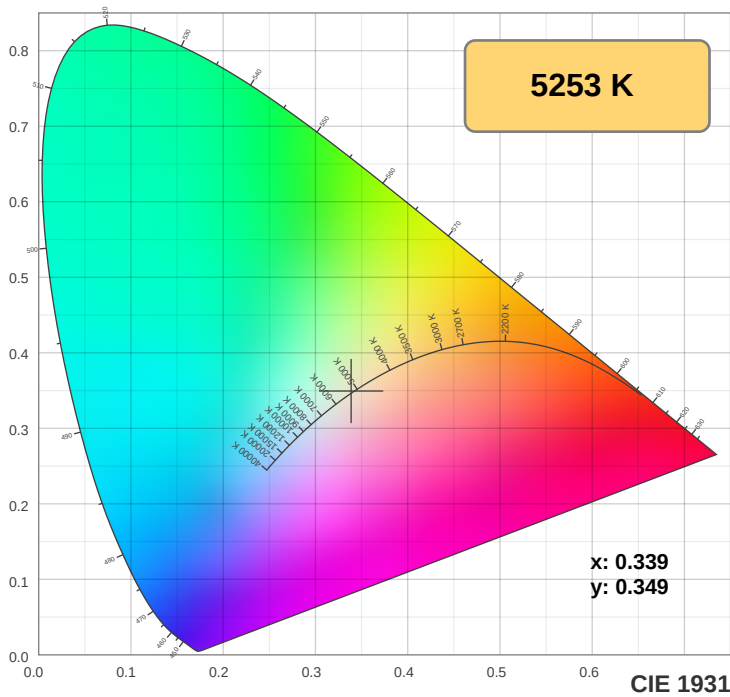
T 314.743.3067

F 314.972.6202

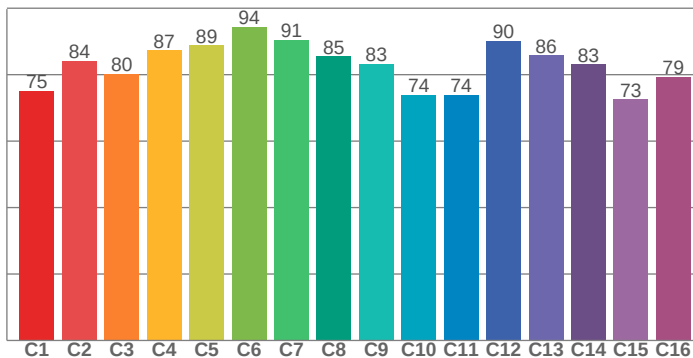
email: commercial-sales@superbrightleds.com

www.superbrightleds.com/

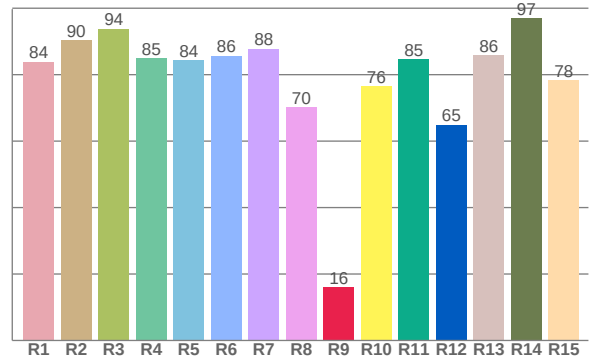
Color Specifications



TM30: 83.0



CRI: 85.1 (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
83.9	90.3	93.9	84.9	84.3	85.7	87.8	70.2	16.0	76.5	84.6	64.9	85.8	96.9	78.4

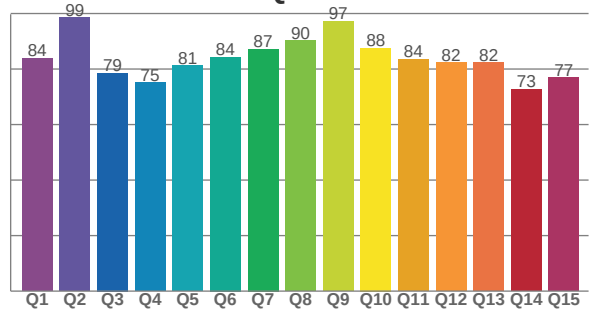
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75.1	84.2	80.3	87.3	88.8	94.4	90.5	85.5	83.3	73.8	73.9	90.1	85.8	83.1	72.6	79.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83.9	98.6	78.6	75.1	81.2	84.3	87.2	90.3	97.2	87.6	83.6	82.3	82.3	72.7	76.9

CQS: 82.6



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
5253 K	85.1	16.0	83.0	94.9	82.6	0.339	0.349	0.208	0.322	-0.0017



TM30 Report

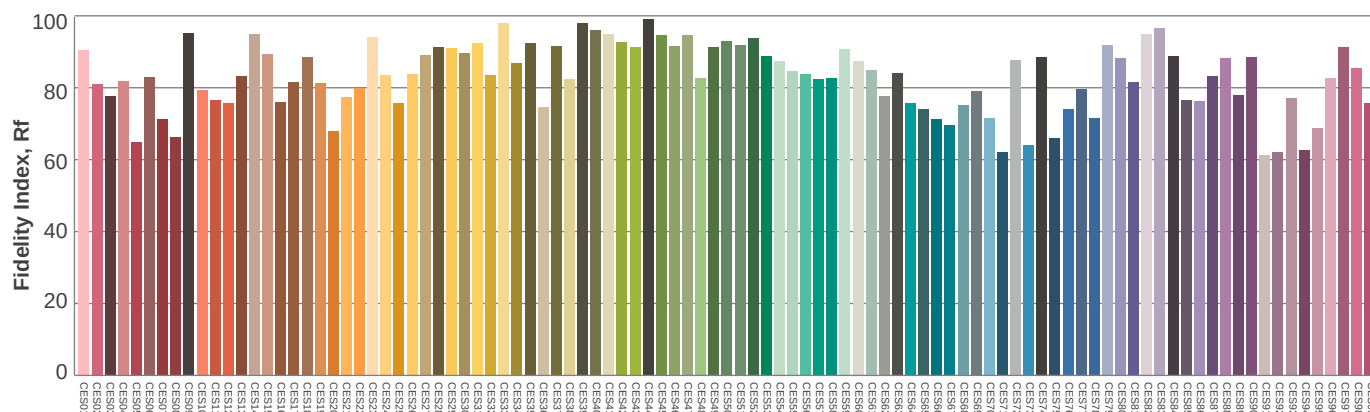
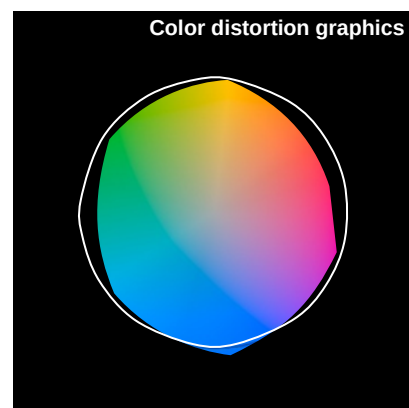
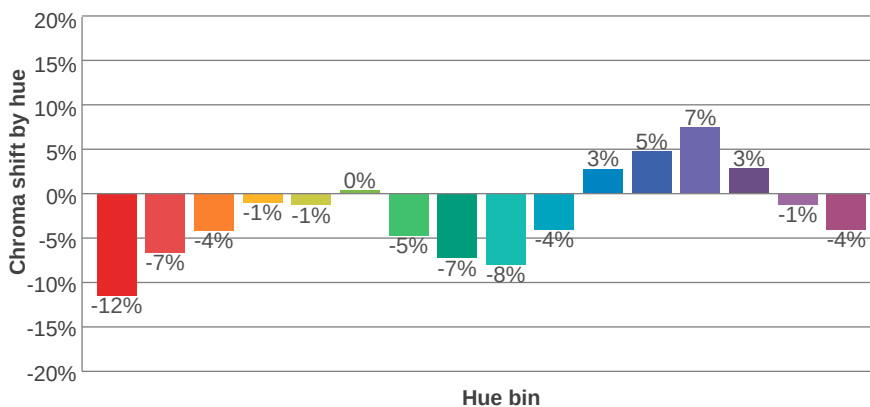
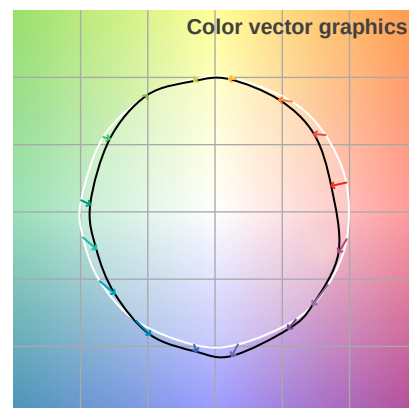
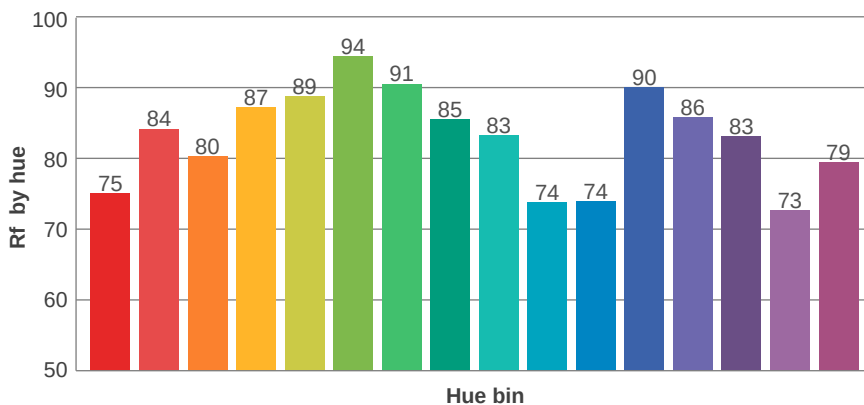
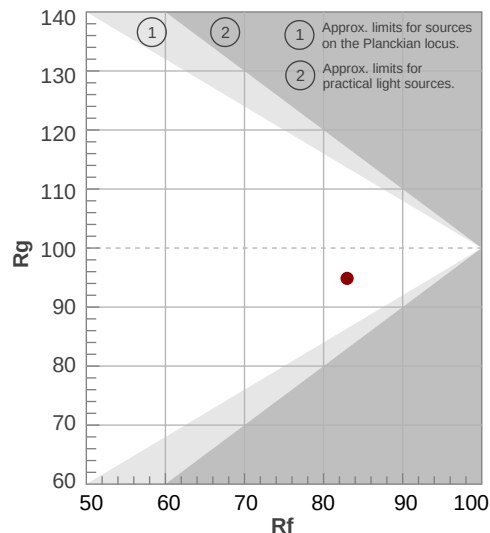
Rf 83.0

Fidelity index Rf

Rg 94.9

Gamut index Rg

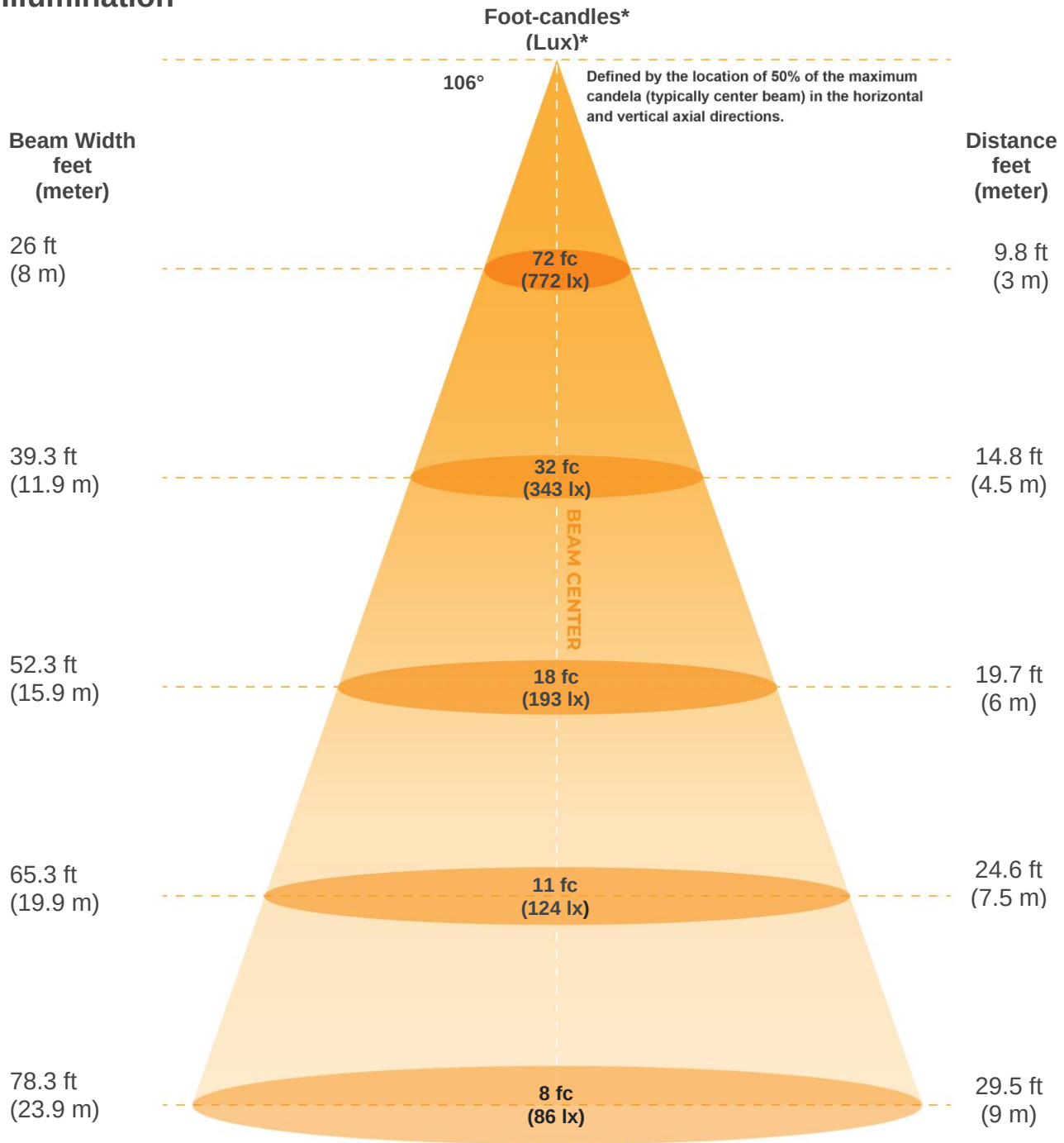
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	75	-12%	0%
2	84	-7%	5%
3	80	-4%	9%
4	87	-1%	5%
5	89	-1%	3%
6	94	0%	-1%
7	91	-5%	-2%
8	85	-7%	2%
9	83	-8%	10%
10	74	-4%	14%
11	74	3%	14%
12	90	5%	3%
13	86	7%	-6%
14	83	3%	-8%
15	73	-1%	-18%
16	79	-4%	-11%



Color Evaluation Sample



Illumination



*measured at center of beam

Beam intensities from 1-20m

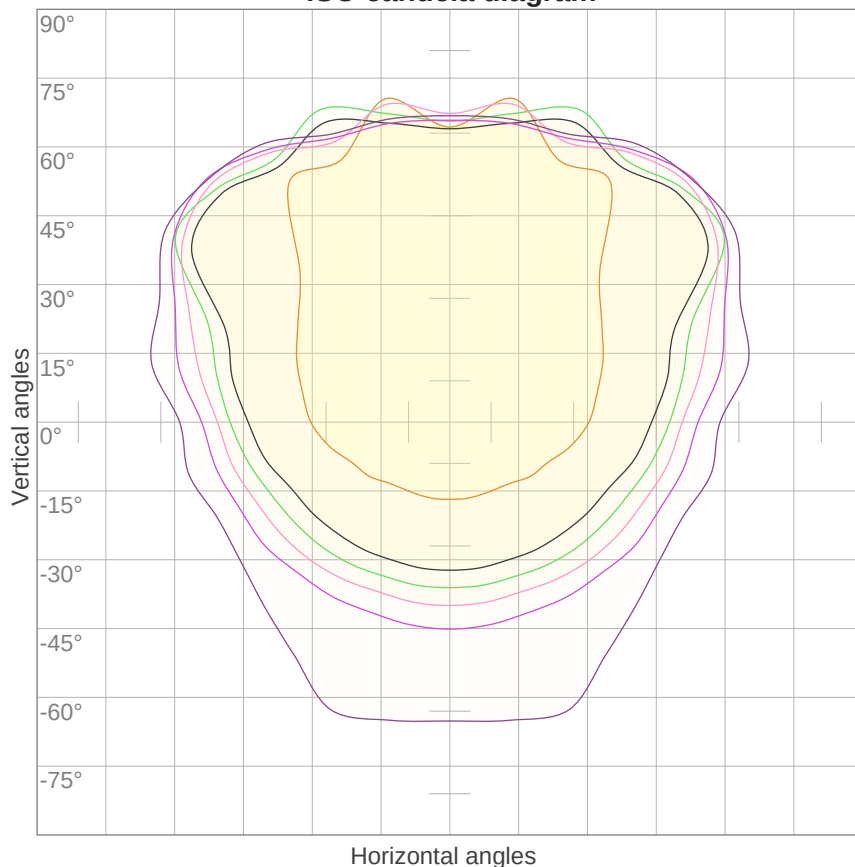
1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
6949lx	1737lx	772lx	434lx	278lx	193lx	142lx	109lx	86lx	69lx	57lx	48lx	41lx	35lx	31lx	27lx	24lx	21lx	19lx	17lx
645.6fc	161.4fc	71.7fcd	40.4fcd	25.8fcd	17.9fcd	13.2fcd	10.1fcd	8fcd	6.5fcd	5.3fcd	4.5fcd	3.8fcd	3.3fcd	2.9fcd	2.5fcd	2.2fcd	2fcd	1.8fcd	1.6fcd

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
106°	142°	162.4°	78.4%	54.0%



ISO Diagrams

ISO candela diagram



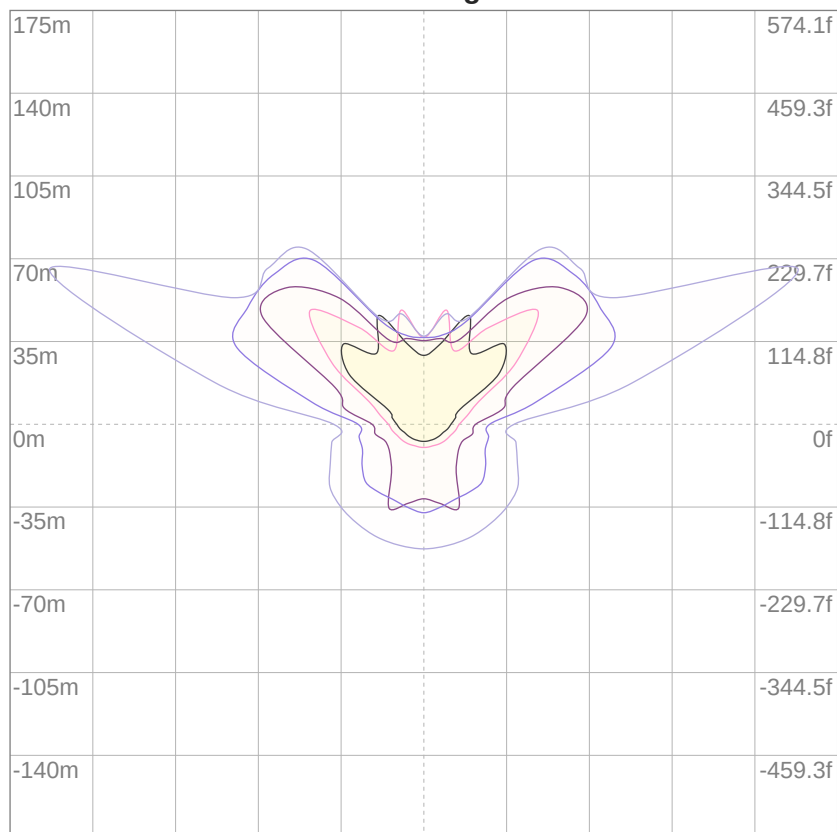
10%	695 cd
20%	1390 cd
30%	2085 cd
40%	2780 cd
50%	3475 cd
60%	4170 cd
70%	4865 cd
80%	5560 cd
90%	6255 cd

Conditions:

Number of c-planes: 16

Candela at center: 6949 cd

ISO lux diagram



3%	2.08 lx
5%	3.47 lx
10%	6.95 lx
30%	20.8 lx
50%	34.7 lx

Conditions:

Number of c-planes: 16

Lux at center: 69.5 lx

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



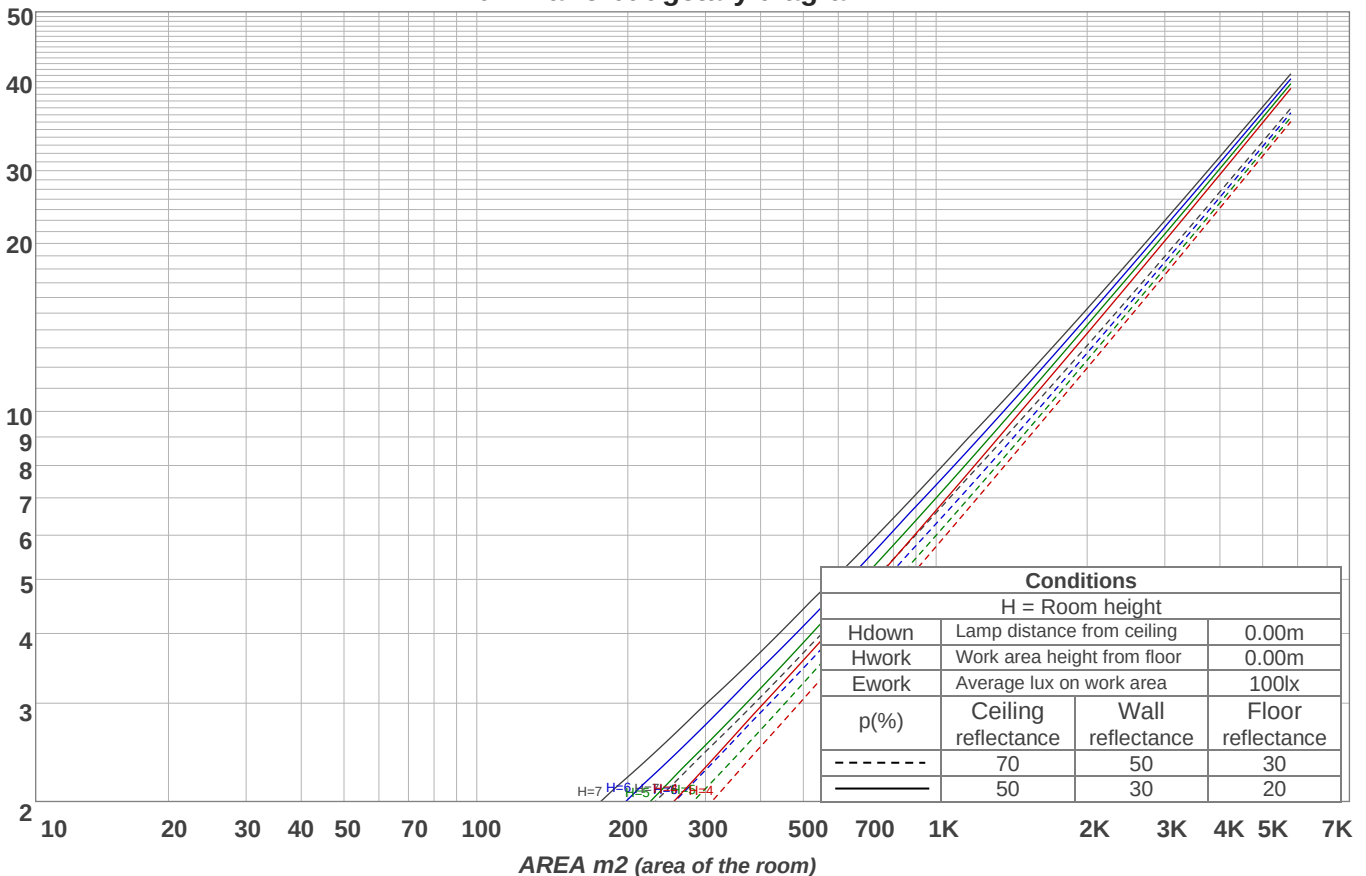
Light Planning

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	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	83	77	85	80	76	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	54	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	42	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	31	26	24

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°
654 lm	1846 lm	2738 lm	3220 lm	3231 lm	2955 lm	2556 lm	1218 lm	170 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
9.73 lm	11.0 lm	12.7 lm	14.8 lm	14.6 lm	13.2 lm	10.6 lm	6.96 lm	2.48 lm

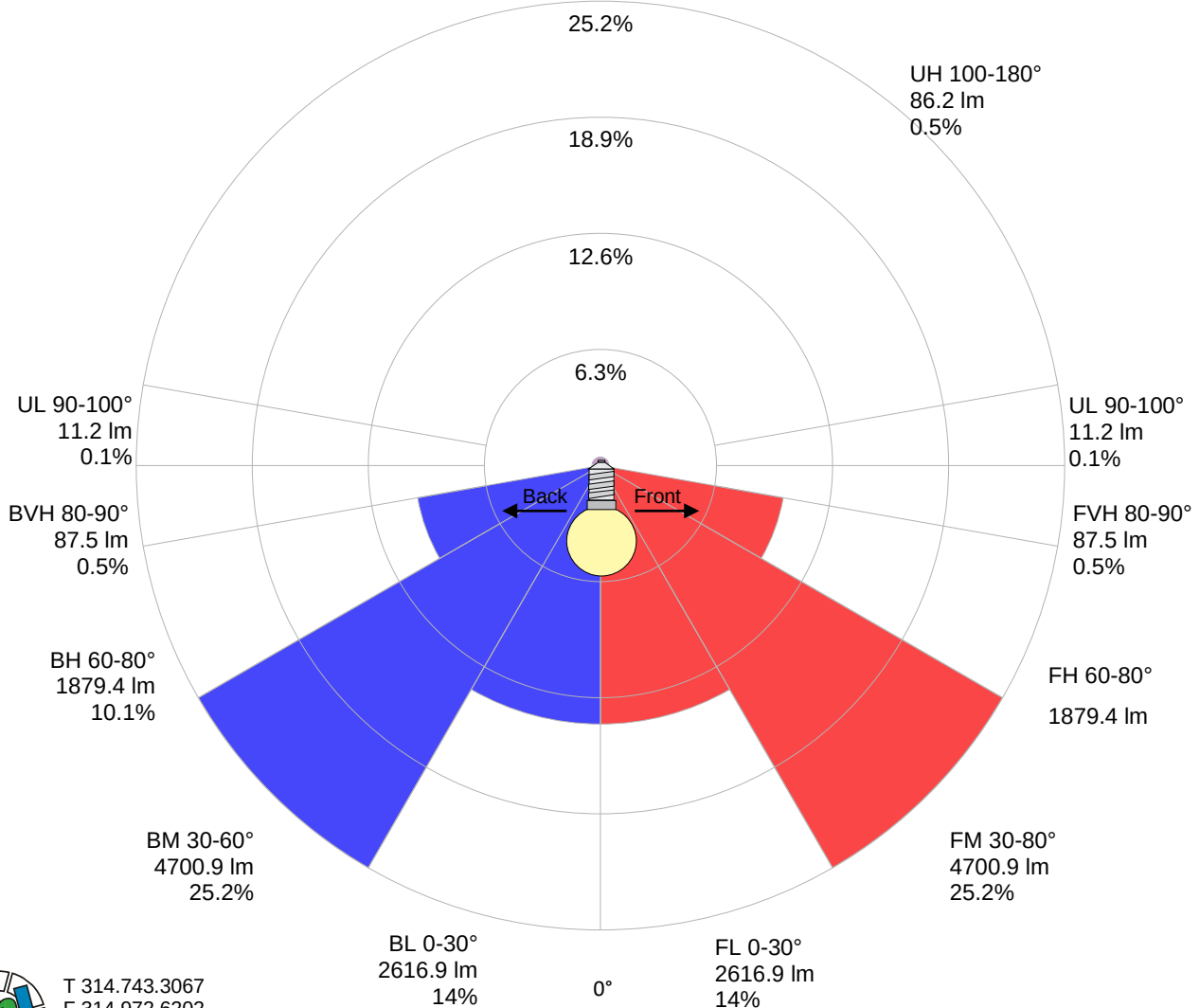


Road Report

LCS table

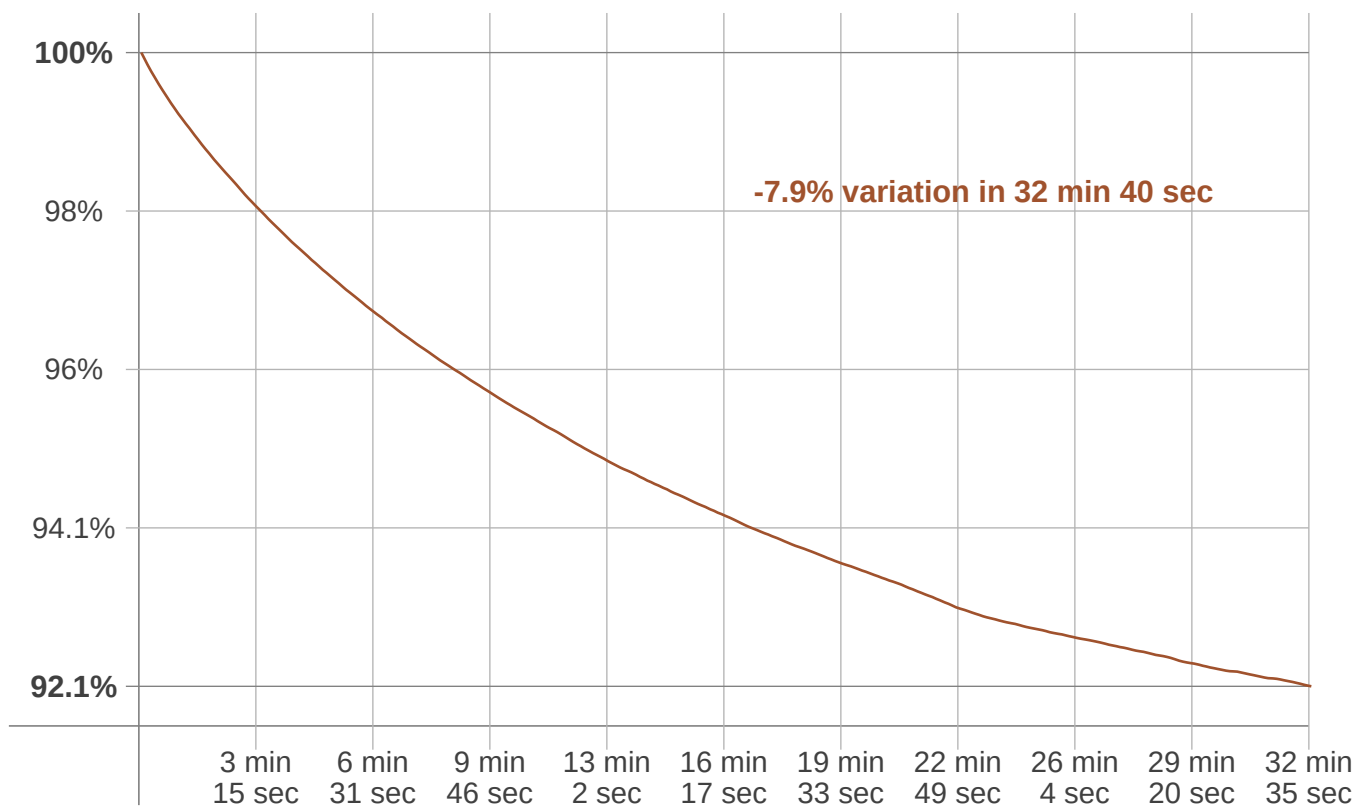
BUG rating:	B4 U3 G3	
Forward light	Lumens	Lumens %
Low(0-30):	2616.9	14%
Medium(30-60):	4700.9	25.2%
High(60-80):	1879.4	10.1%
Very high(80-90):	87.5	0.5%
Back light		
Low(0-30):	2616.9	14%
Medium(30-60):	4700.9	25.2%
High(60-80):	1879.4	10.1%
Very high(80-90):	87.5	0.5%
Uplight		
Low(90-100):	11.2	0.1%
High(100-180):	86.2	0.5%

LCS graph



Stabilization

Warmup curve



Warmup result

Warmup time:	32 min 40 sec
Warmup variation	-8.0%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
5102 K	+151 K	5253 K

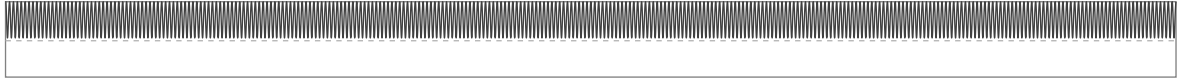
Output change

Output start	Output change	Output end
20249 lm	-1567 lm	18682 lm

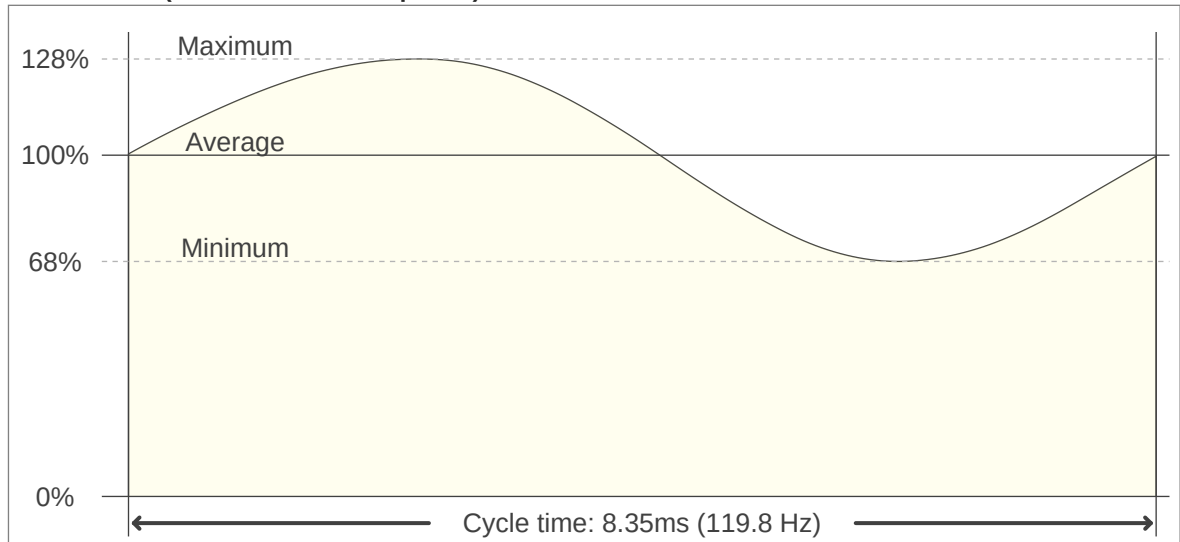


Flicker

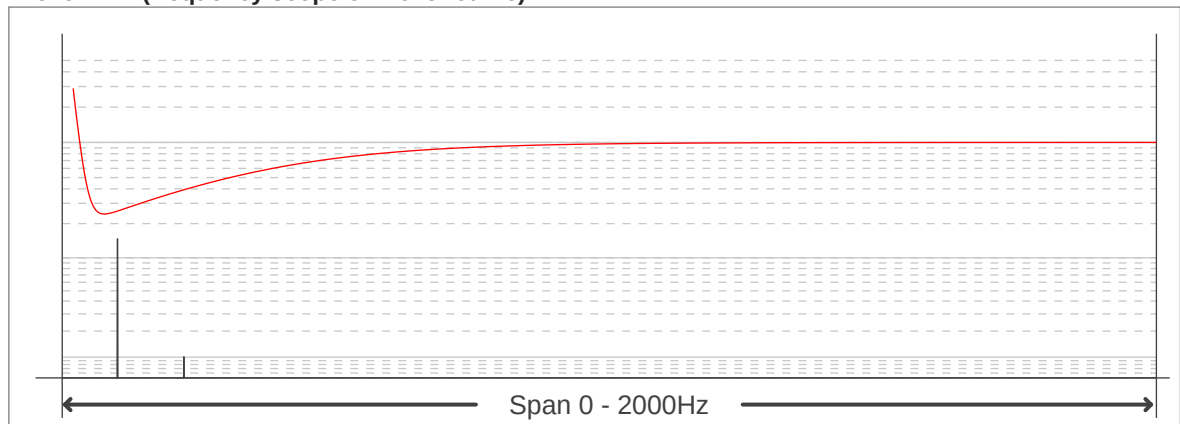
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:	119.76 Hz
Flicker index:	0.09
Flicker percentage:	30.17 %
SVM: (Visual flicker)	1.07

Flicker conditions:

Sample rate:	20000 samples/second
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