

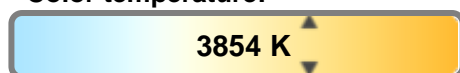
Light efficiency:



Light quality:



Color temperature:

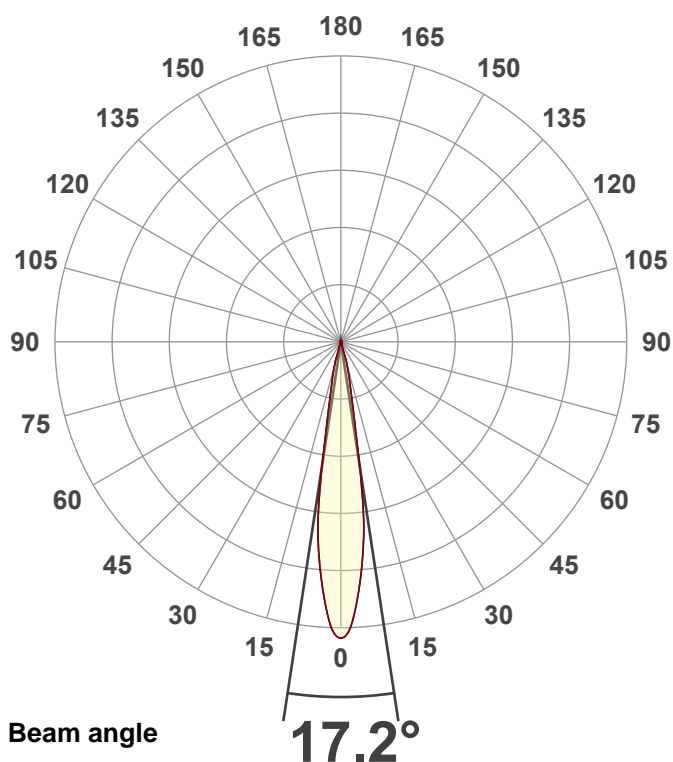


Output: 15075 lm
Peak: 108349 cd
Power: 678 W
PF: 1.0



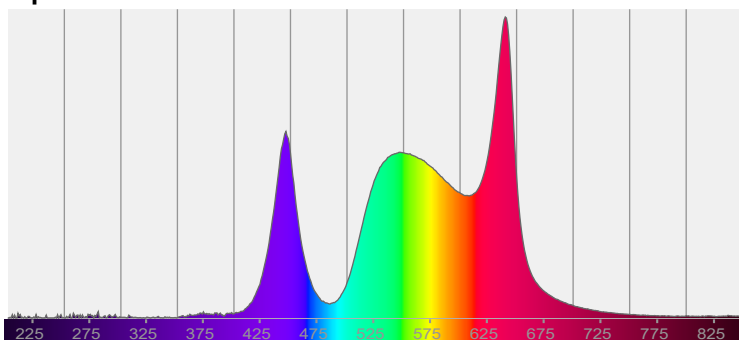
Product name:
Hydro Flex L19 (Zoom 50% 4000K)
Item number:

Date and time:
9/6/2025 12:44:14 PM

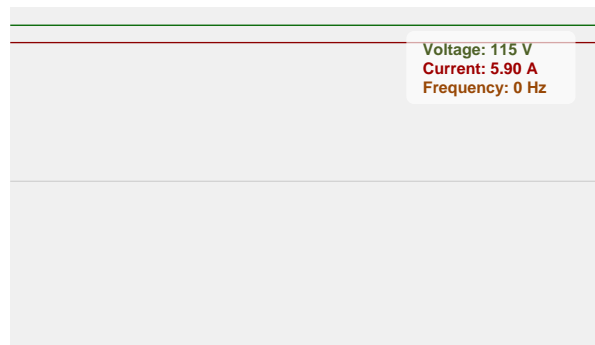


CIE 1931
x: 0.387
y: 0.380

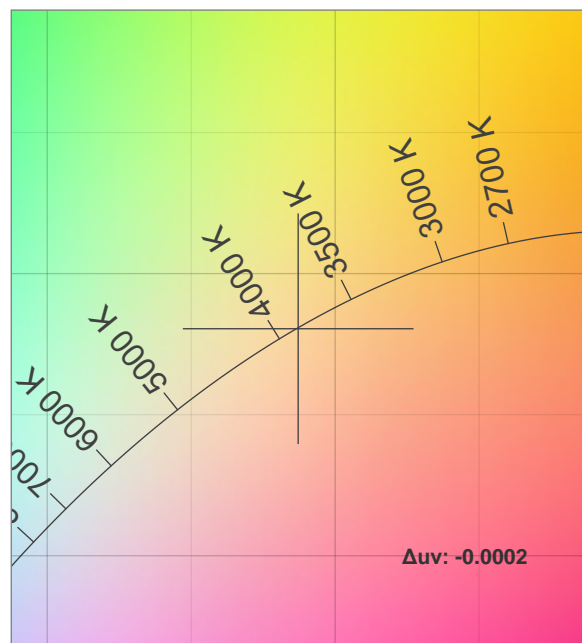
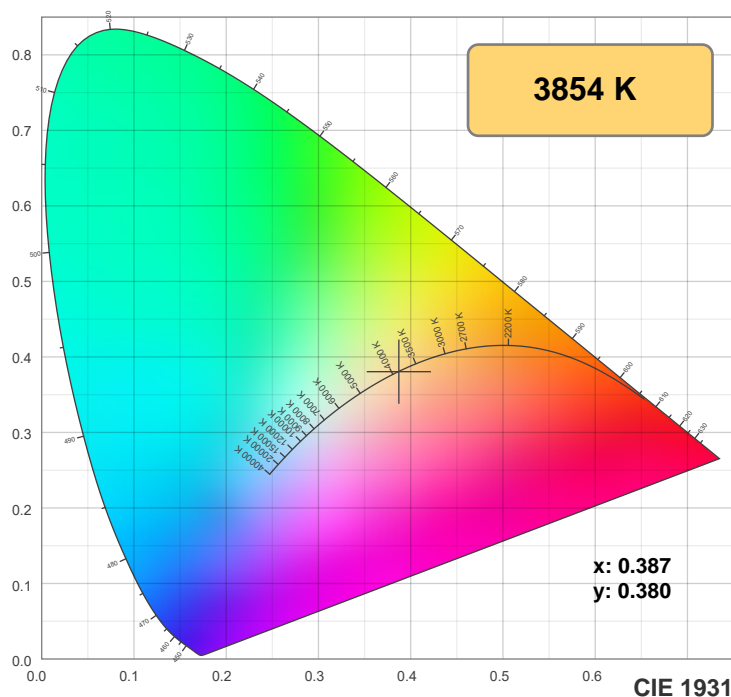
Spectra



Power

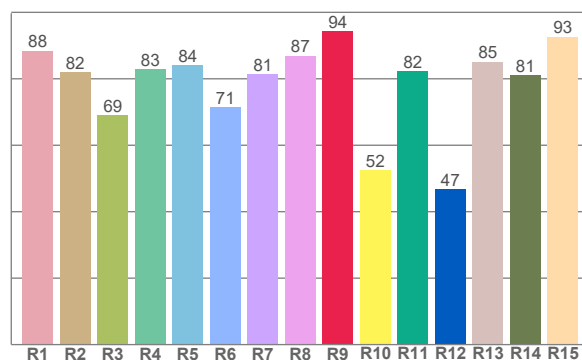
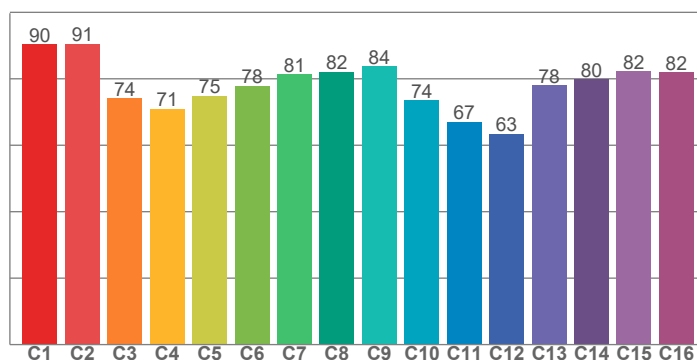


Color details



TM-30: 78.4

CRI: 80.8 (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
88.4	81.9	69.0	83.0	84.0	71.4	81.4	86.9	94.3	52.4	82.3	46.8	85.1	81.0	92.7

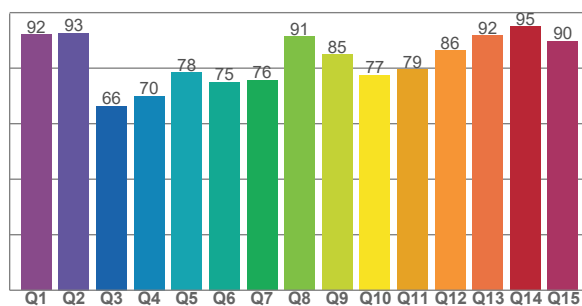
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90.4	90.5	74.2	70.9	74.9	77.9	81.4	82.1	83.8	73.5	67.0	63.5	78.0	79.8	82.2	82.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92.1	92.7	66.4	70.0	78.5	75.1	75.6	91.4	84.9	77.5	79.4	86.4	91.7	95.0	89.7

CQS: 81.0



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
3854 K	80.8	94.3	78.4	106.3	81.0	0.387	0.380	0.228	0.336	-0.0002

TM-30 details

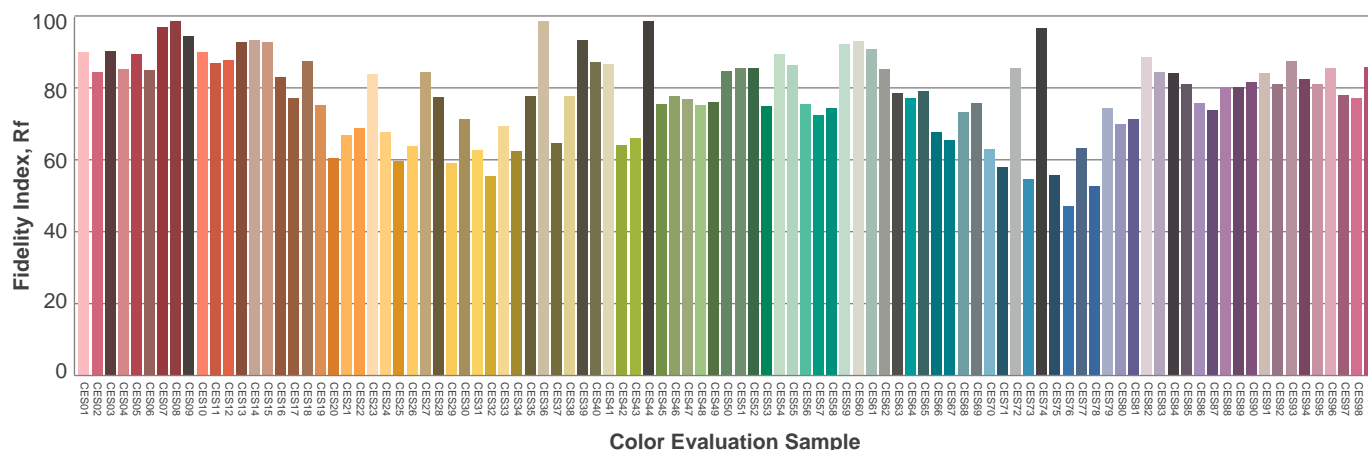
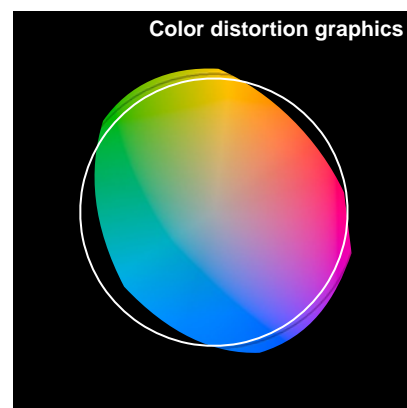
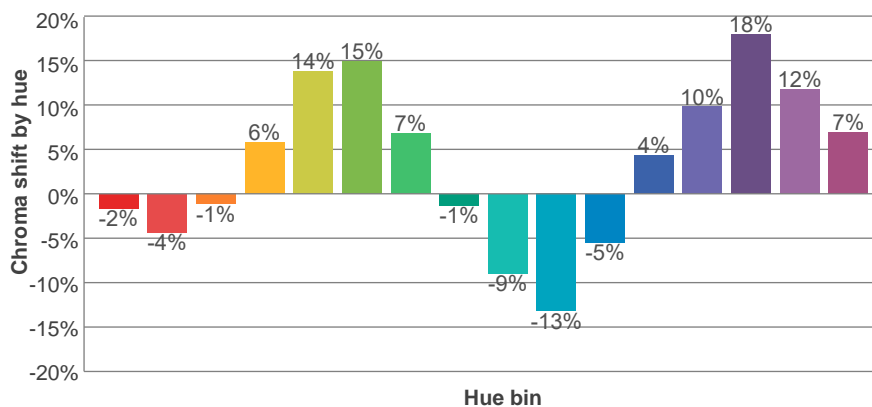
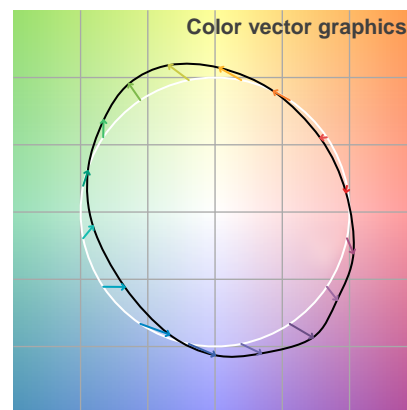
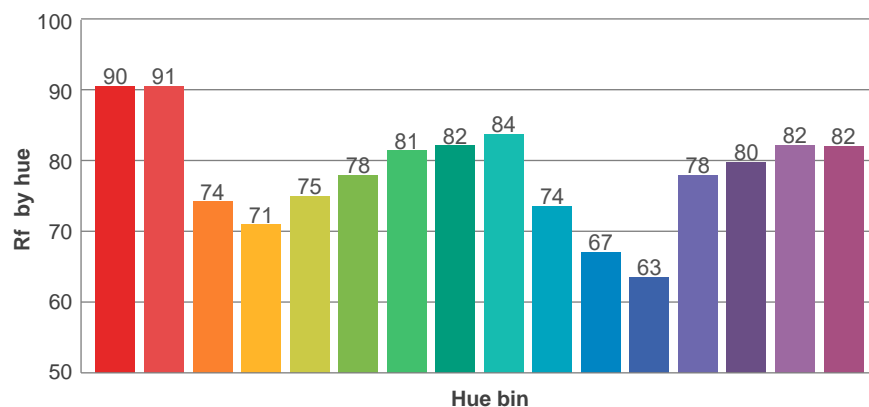
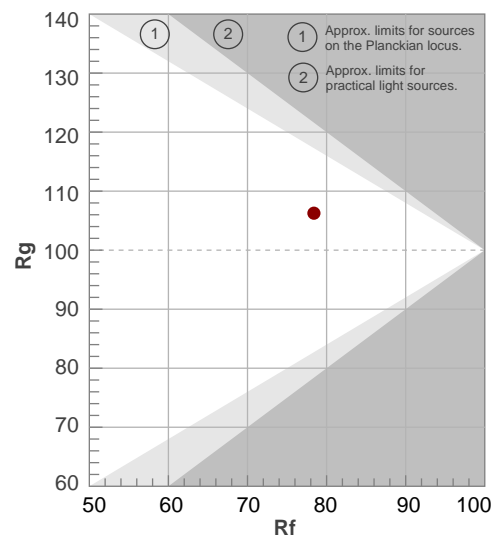
Rf 78.4

Fidelity index Rf

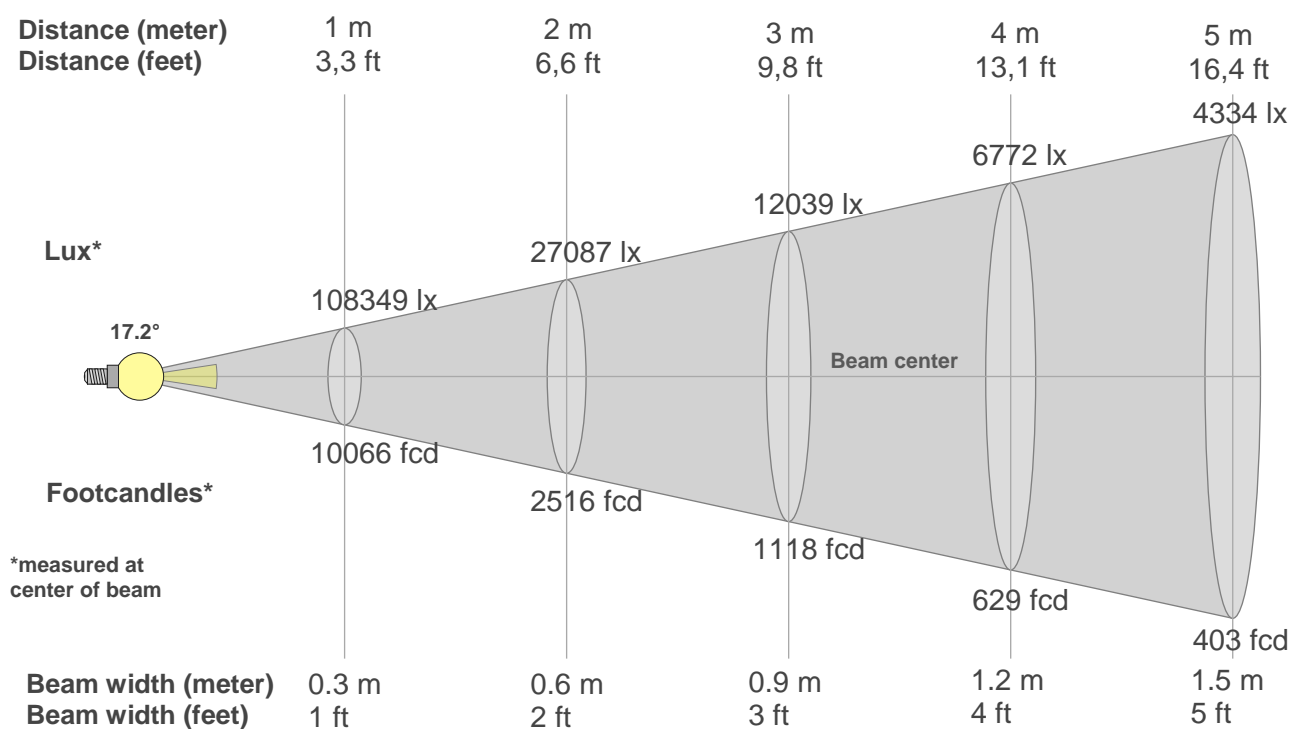
Rg 106.3

Gamut index Rg

Hue Bin	Ri	Shifts (%)	
		Chroma	Hue
1	90	-2%	-5%
2	91	-4%	2%
3	74	-1%	14%
4	71	6%	18%
5	75	14%	12%
6	78	15%	0%
7	81	7%	-11%
8	82	-1%	-11%
9	84	-9%	-7%
10	74	-13%	9%
11	67	-5%	22%
12	63	4%	21%
13	78	10%	13%
14	80	18%	9%
15	82	12%	-4%
16	82	7%	-10%



Beam details



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
108349lx	27087lx	12039lx	6772lx	4334lx	3010lx	2211lx	1693lx	1338lx	1083lx	895lx	752lx	641lx	553lx	482lx	423lx	375lx	334lx	300lx	271lx
10065.9 fcd	2516.5 fcd	1118.4 fcd	629.1 fcd	402.6 fcd	279.6 fcd	205.4 fcd	157.3 fcd	124.3 fcd	100.7 fcd	83.2 fcd	69.9 fcd	59.6 fcd	51.4 fcd	44.7 fcd	39.3 fcd	34.8 fcd	31.1 fcd	27.9 fcd	25.2 fcd

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
108k	108k	108k	101k	94k	86k	79k	72k	61k	50k	39k	28k	18k	14k	11k	8k	5k	2k	1k	1k
100%	100%	100%	94%	87%	80%	73%	66%	56%	46%	36%	26%	16%	13%	10%	7%	4%	2%	1%	1%

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
108k	108k	108k	101k	94k	86k	79k	72k	61k	50k	39k	28k	18k	14k	11k	8k	5k	2k	1k	1k
100%	100%	100%	94%	87%	80%	73%	66%	56%	46%	36%	26%	16%	13%	10%	7%	4%	2%	1%	1%

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
108k	108k	108k	101k	94k	86k	79k	72k	61k	50k	39k	28k	18k	14k	11k	8k	5k	2k	1k	1k
100%	100%	100%	94%	87%	80%	73%	66%	56%	46%	36%	26%	16%	13%	10%	7%	4%	2%	1%	1%

Intensities in 270° c-plane

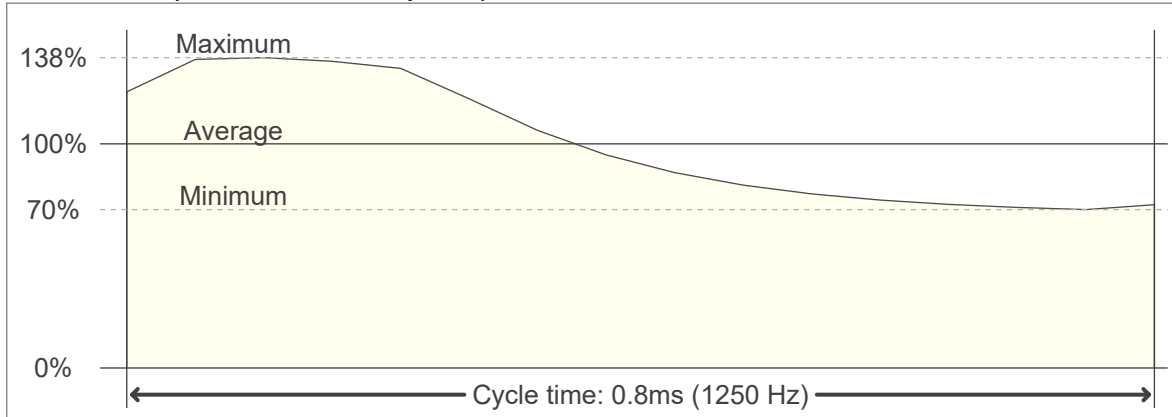
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
108k	108k	108k	101k	94k	86k	79k	72k	61k	50k	39k	28k	18k	14k	11k	8k	5k	2k	1k	1k
100%	100%	100%	94%	87%	80%	73%	66%	56%	46%	36%	26%	16%	13%	10%	7%	4%	2%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17.2°	28.1°	33.3°	70.8%	66.2%

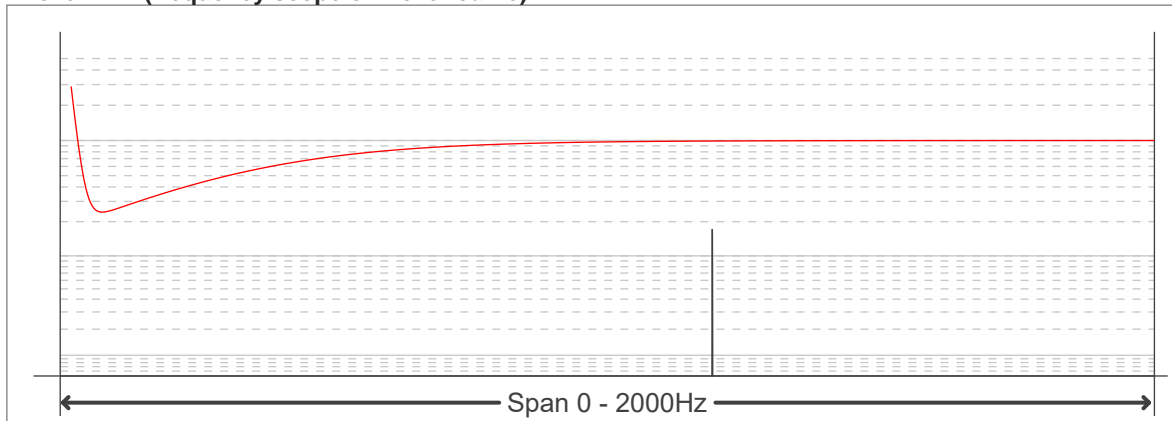
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:		1250 Hz	
Flicker index:	0.12	JA8/10 40Hz	0.19 %
Flicker percentage:	32.89 %	JA8/10 90Hz	0.45 %
SVM: (Visual flicker)	0.35	JA8/10 200Hz	0.99 %
PstLM	0	JA8/10 400Hz	2.05 %
Mp	0.07	JA8/10 1000Hz	7.16 %

Flicker conditions:

Sample rate:	20000 samples/second
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