

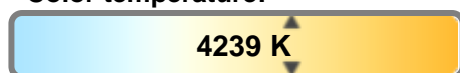
Light efficiency:



Light quality:



Color temperature:

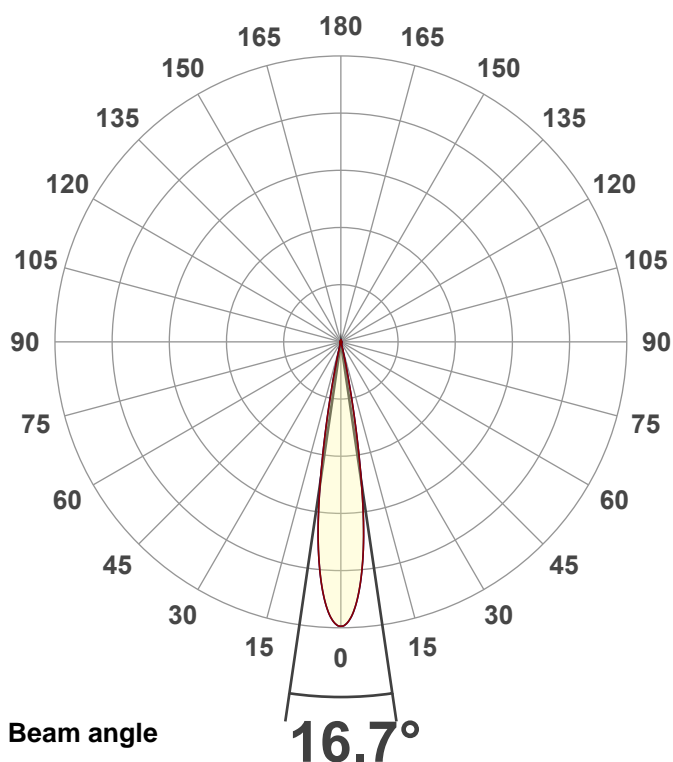


Output: 13728 lm
Peak: 115173 cd
Power: 672 W
PF: 1.0



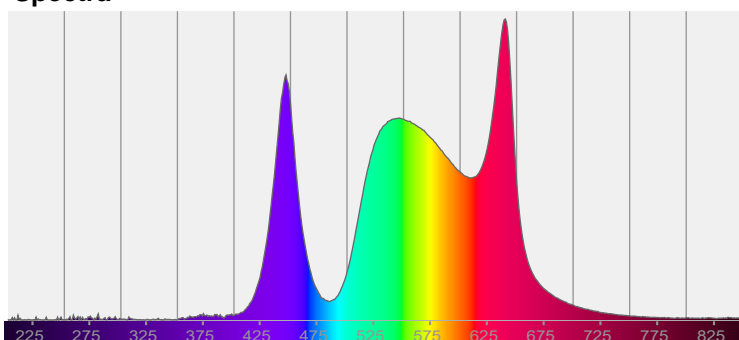
Product name:
Hydro Flex L19 (Zoom 50% 4500K)
Item number:

Date and time:
9/6/2025 12:55:02 PM

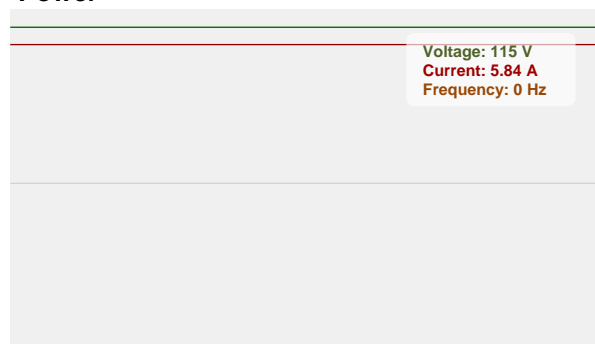


CIE 1931
x: 0.372
y: 0.377

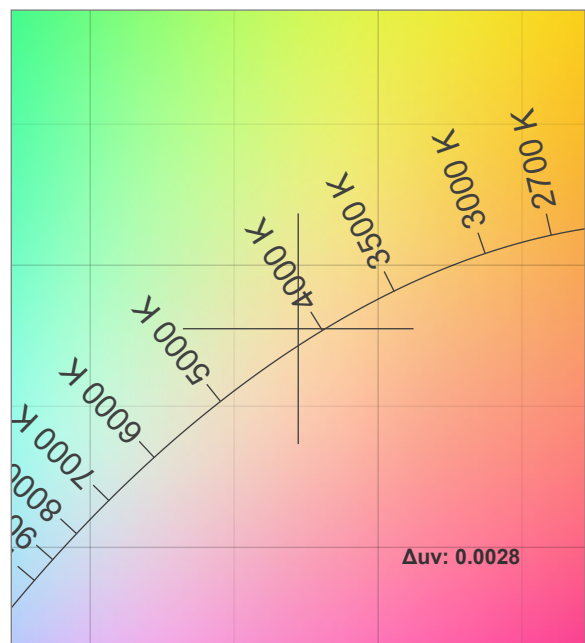
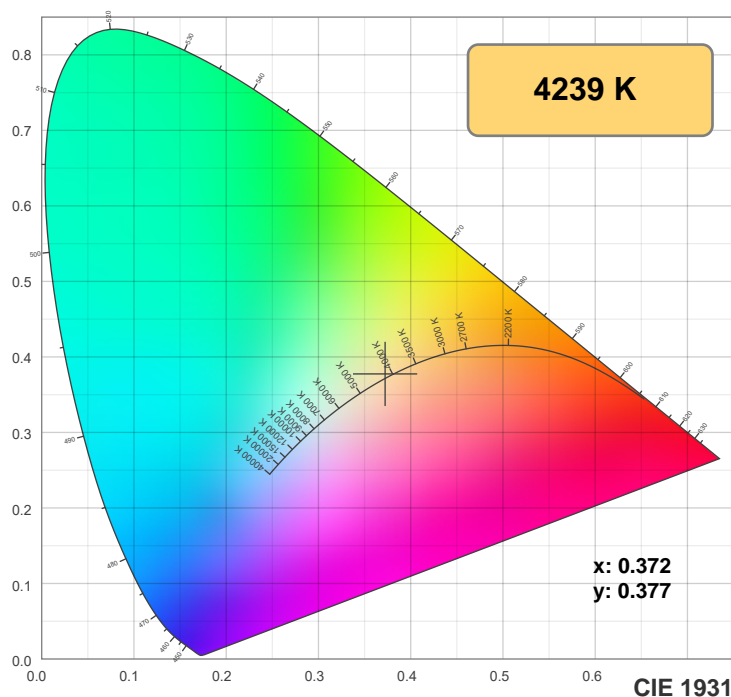
Spectra



Power

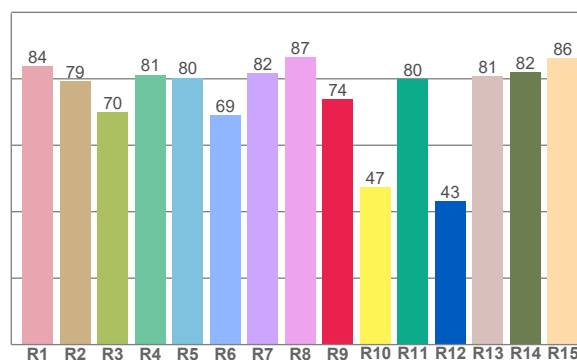
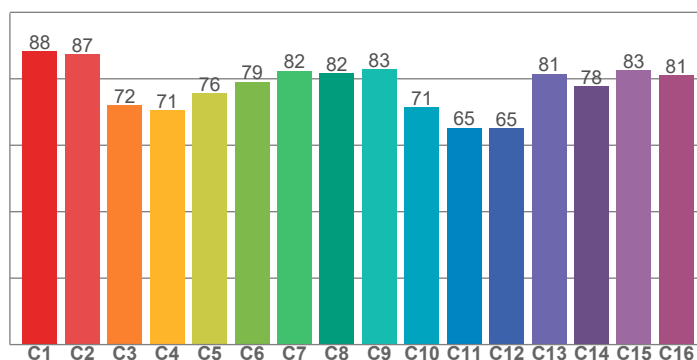


Color details



TM-30: 77.6

CRI: 79.0 (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
83.8	79.3	70.0	81.2	80.3	69.0	81.7	86.6	73.8	47.4	79.8	43.3	80.9	82.1	86.2

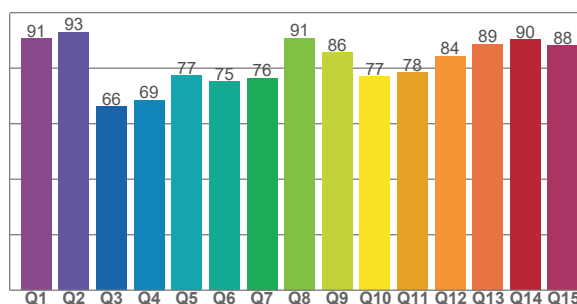
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88.3	87.4	72.0	70.6	75.6	79.1	82.4	81.7	82.9	71.4	65.2	65.0	81.4	77.7	82.5	81.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90.6	92.9	66.3	68.6	77.3	75.3	76.4	90.8	85.7	77.0	78.4	84.3	88.8	90.4	88.1

CQS: 80.3



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
4239 K	79.0	73.8	77.6	103.7	80.3	0.372	0.377	0.219	0.334	0.0028

TM-30 details

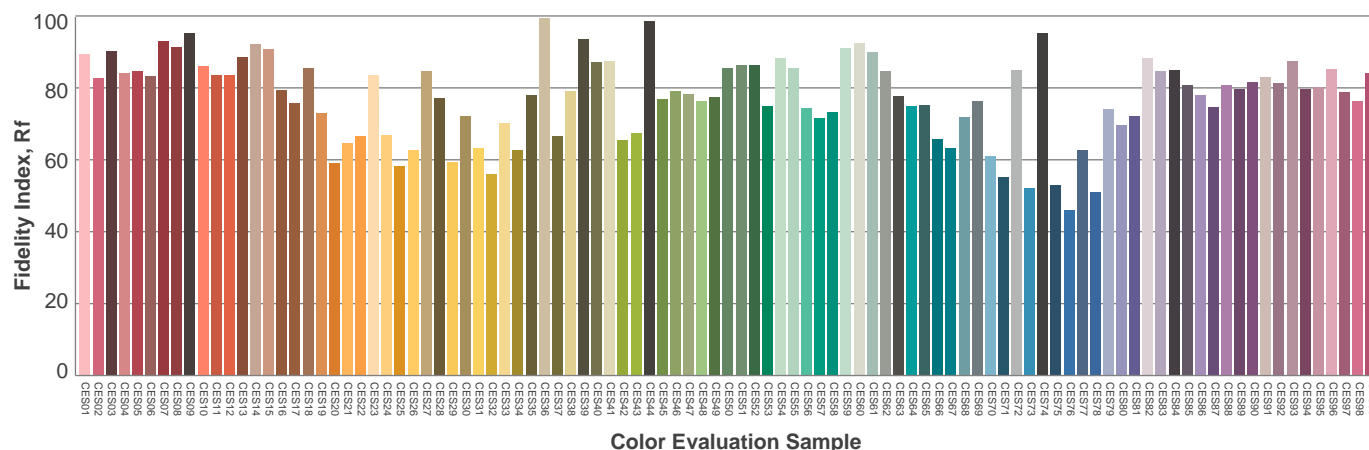
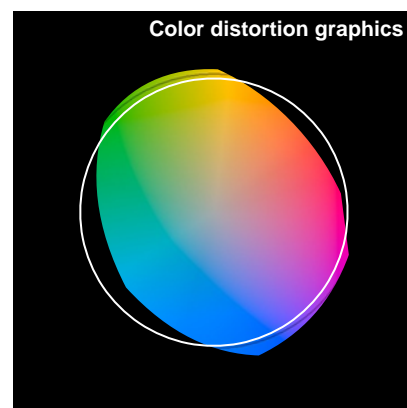
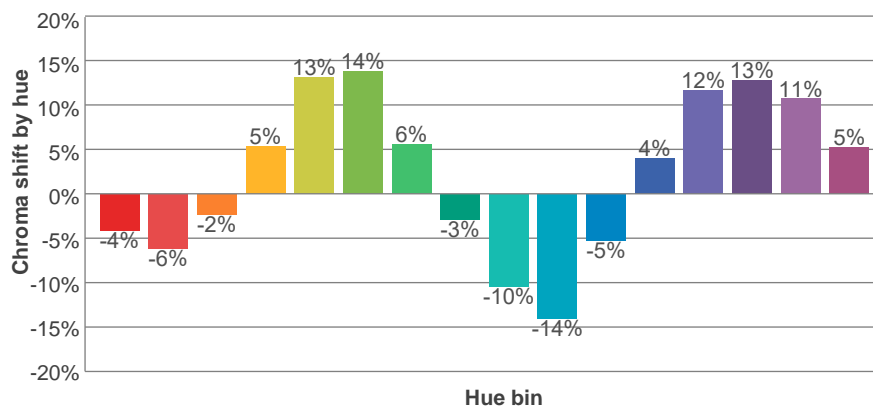
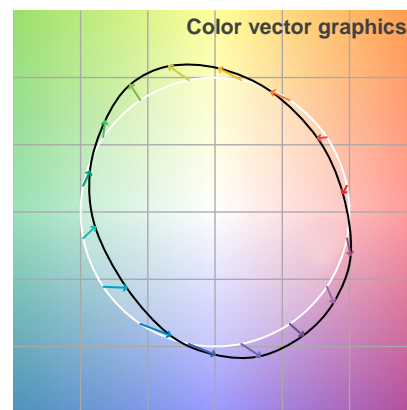
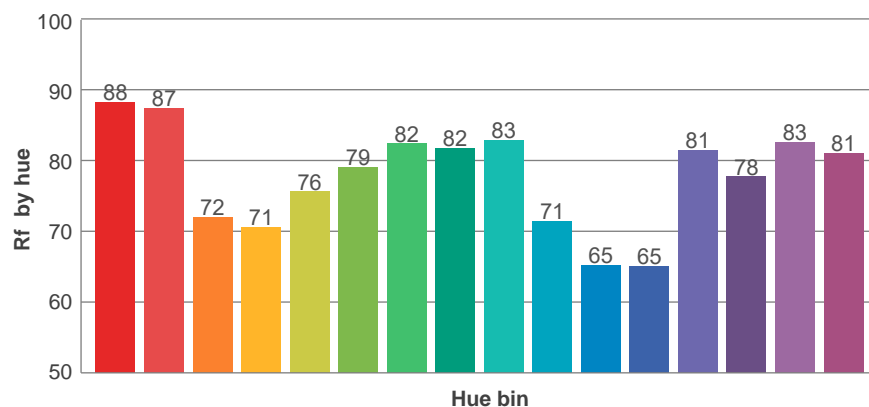
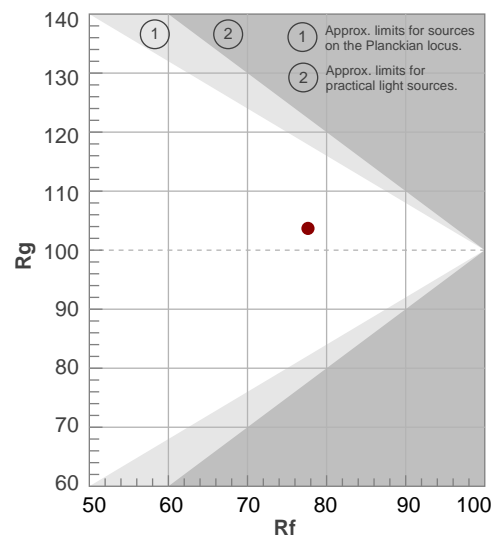
Rf 77.6

Fidelity index Rf

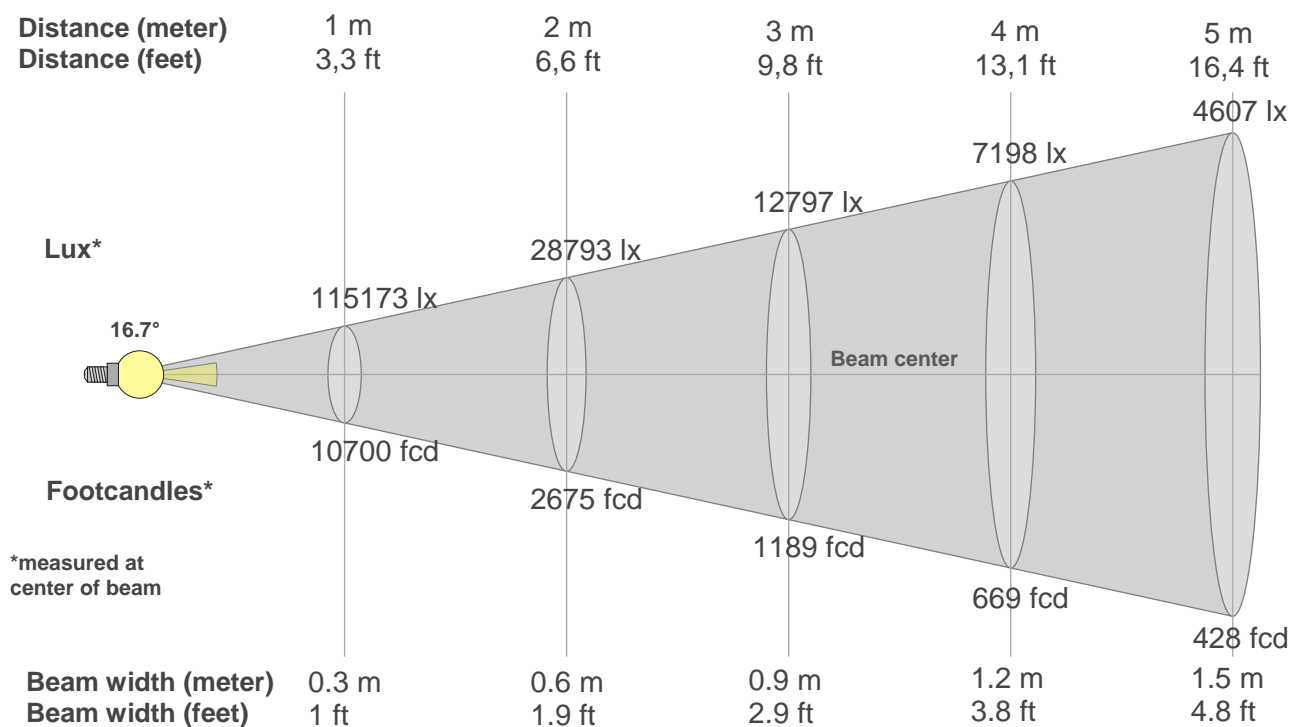
Rg 103.7

Gamut index Rg

Hue Bin	Ri	Shifts (%)	
		Chroma	Hue
1	88	-4%	-5%
2	87	-6%	3%
3	72	-2%	15%
4	71	5%	18%
5	76	13%	12%
6	79	14%	0%
7	82	6%	-11%
8	82	-3%	-11%
9	83	-10%	-7%
10	71	-14%	10%
11	65	-5%	23%
12	65	4%	21%
13	81	12%	12%
14	78	13%	3%
15	83	11%	-7%
16	81	5%	-12%



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
115173lx	28793lx	12797lx	7198lx	4607lx	3199lx	2350lx	1800lx	1422lx	1152lx	952lx	800lx	681lx	588lx	512lx	450lx	399lx	355lx	319lx	288lx
10699.9 fcd	2675 fcd	1188.9 fcd	668.7 fcd	428 fcd	297.2 fcd	218.4 fcd	167.2 fcd	132.1 fcd	107 fcd	88.4 fcd	74.3 fcd	63.3 fcd	54.6 fcd	47.6 fcd	41.8 fcd	37 fcd	33 fcd	29.6 fcd	26.7 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°
115k	114k	112k	108k	102k	95k	86k	75k	62k	48k	33k	21k	11k	5k	2k	1k	1k	1k	1k	1k
100%	99%	97%	94%	89%	83%	75%	65%	54%	41%	29%	18%	10%	5%	2%	1%	1%	0%	0%	0%

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°
115k	114k	112k	108k	102k	95k	86k	75k	62k	48k	33k	21k	11k	5k	2k	1k	1k	1k	1k	1k
100%	99%	97%	94%	89%	83%	75%	65%	54%	41%	29%	18%	10%	5%	2%	1%	1%	0%	0%	0%

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°
115k	114k	112k	108k	102k	95k	86k	75k	62k	48k	33k	21k	11k	5k	2k	1k	1k	1k	1k	1k
100%	99%	97%	94%	89%	83%	75%	65%	54%	41%	29%	18%	10%	5%	2%	1%	1%	0%	0%	0%

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°
115k	114k	112k	108k	102k	95k	86k	75k	62k	48k	33k	21k	11k	5k	2k	1k	1k	1k	1k	1k
100%	99%	97%	94%	89%	83%	75%	65%	54%	41%	29%	18%	10%	5%	2%	1%	1%	0%	0%	0%

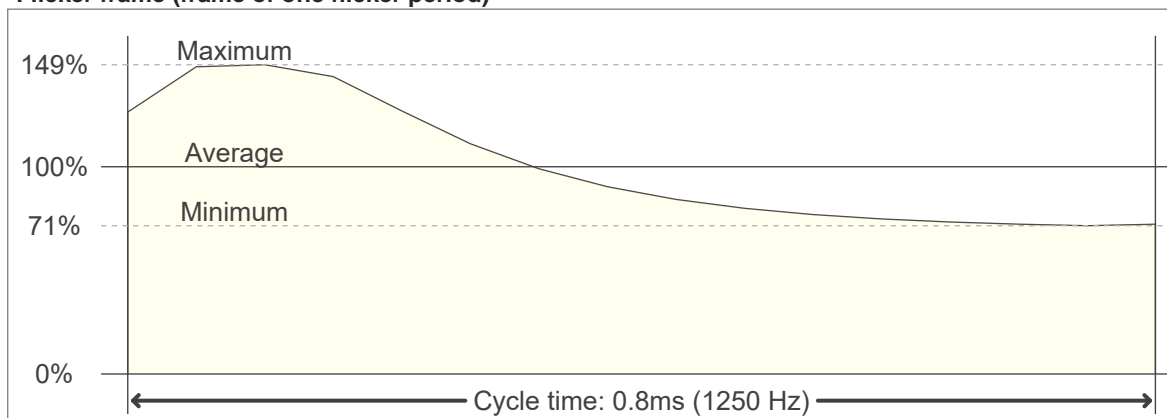
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16.7°	23.9°	27.4°	71.2%	66.5%

Flicker

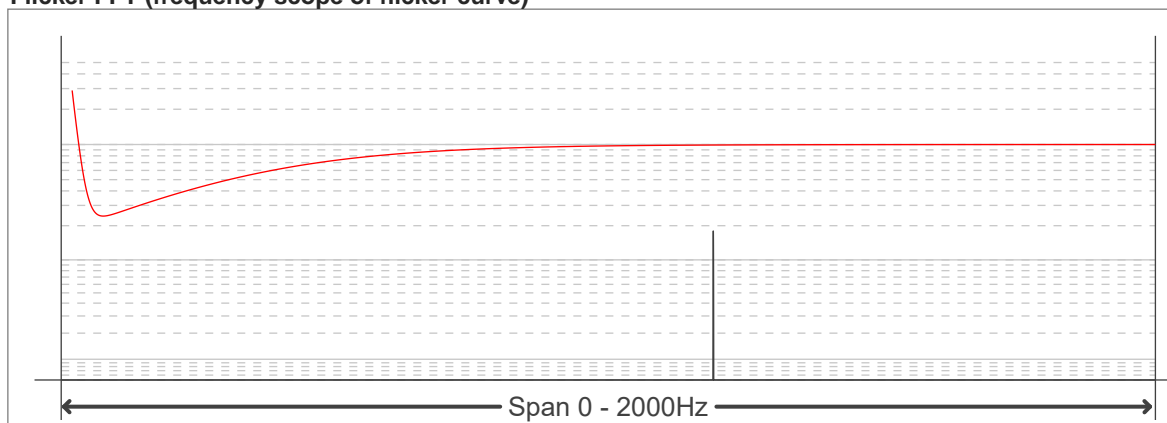
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:		1250 Hz	
Flicker index:	0.13	JA8/10 40Hz	0.12 %
Flicker percentage:	36.52 %	JA8/10 90Hz	0.21 %
SVM: (Visual flicker)	0.36	JA8/10 200Hz	0.48 %
PstLM	0	JA8/10 400Hz	1.01 %
Mp	0.07	JA8/10 1000Hz	4.53 %

Flicker conditions:

Sample rate:	20000 samples/second
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