

#### Light efficiency:

37 Lumen/Watt

#### Light quality:

CRI: 75.9

#### Color temperature:

2680 K

Output: 11639 lm

Peak: 49391 cd

Power: 311 W

PF: 1.0



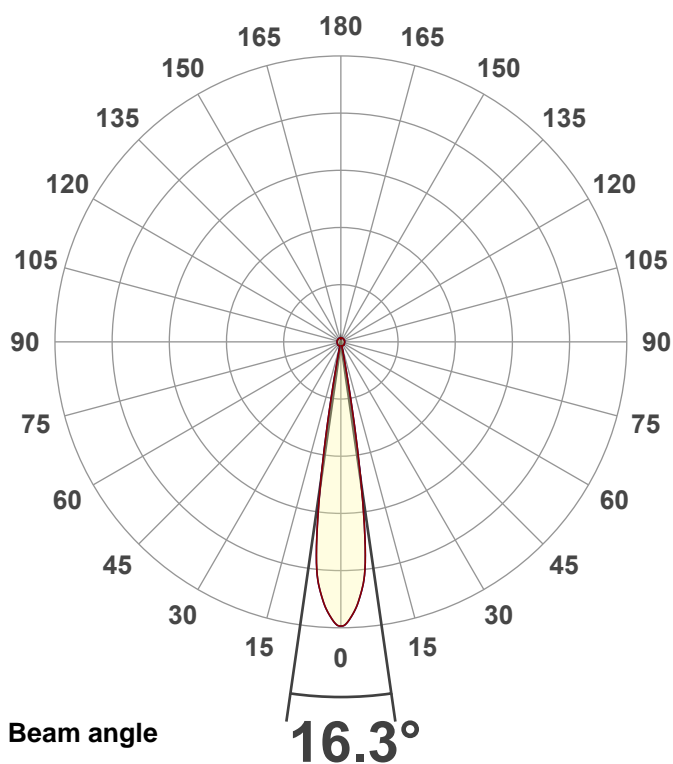
Product name:

**Hydro Flex L7 (Zoom 50% 2700K)**

Item number:

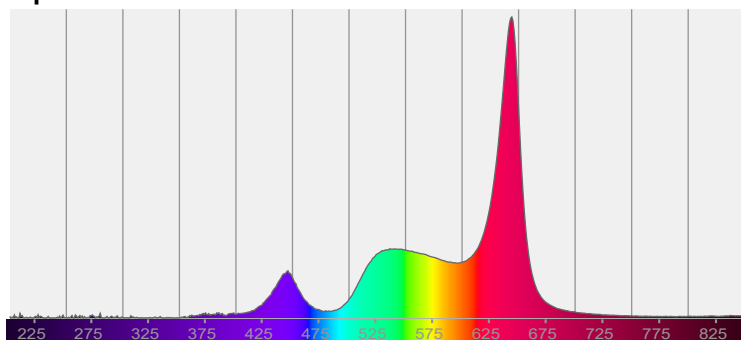
Date and time:

**8/25/2025 2:51:51 PM**



CIE 1931  
x: 0.455  
y: 0.398

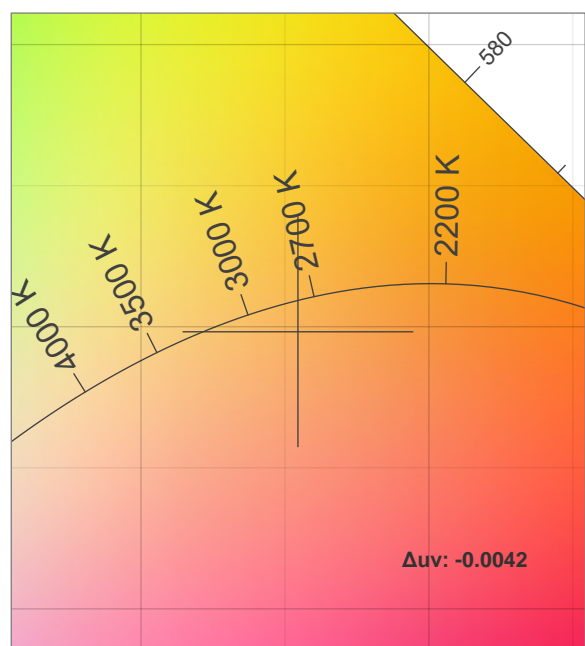
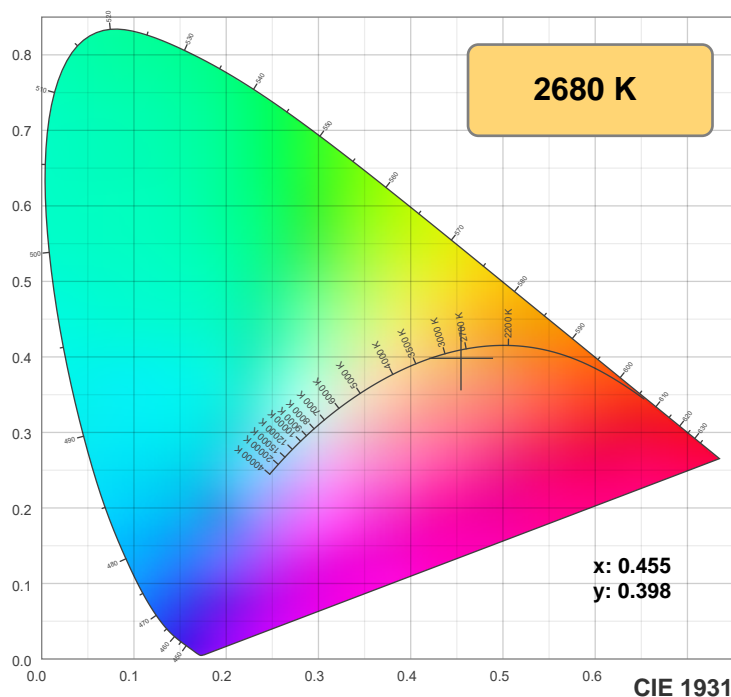
#### Spectra



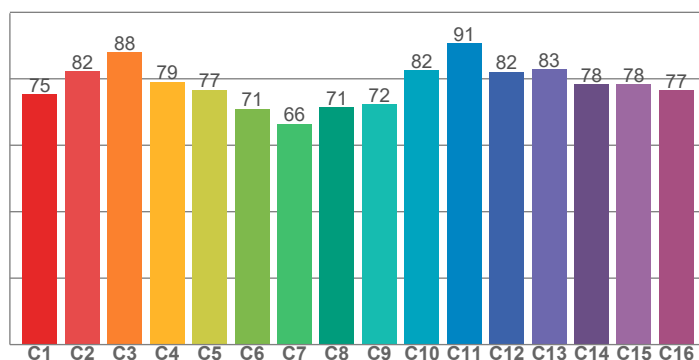
#### Power

Voltage: 115 V  
Current: 2.70 A  
Frequency: 0 Hz

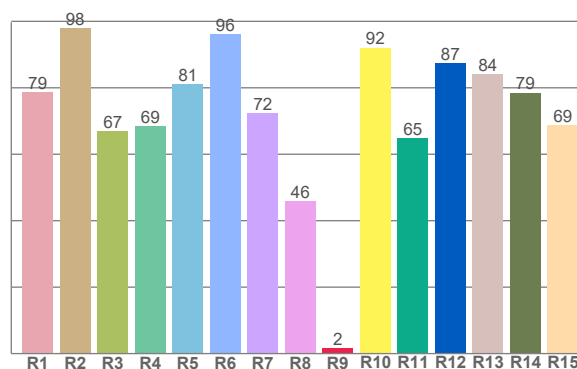
## Color details



**TM-30: 78.8**



**CRI: 75.9 (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
78.7	97.8	67.0	68.5	81.2	96.0	72.4	45.7	1.6	92.0	64.9	87.5	84.2	78.5	68.7

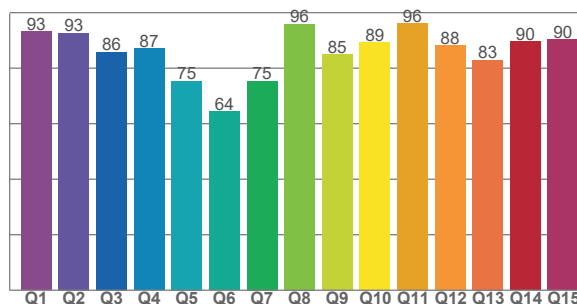
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
75.3	82.2	88.0	79.2	76.7	71.0	66.5	71.4	72.3	82.5	90.8	82.1	82.9	78.3	78.4	76.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93.2	92.7	85.9	87.1	75.4	64.4	75.4	95.9	84.9	89.2	96.2	88.1	82.9	89.6	90.3

**CQS: 83.4**



### 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
2680 K	75.9	1.6	78.8	118.5	83.4	0.455	0.398	0.265	0.348	-0.0042

# TM-30 details

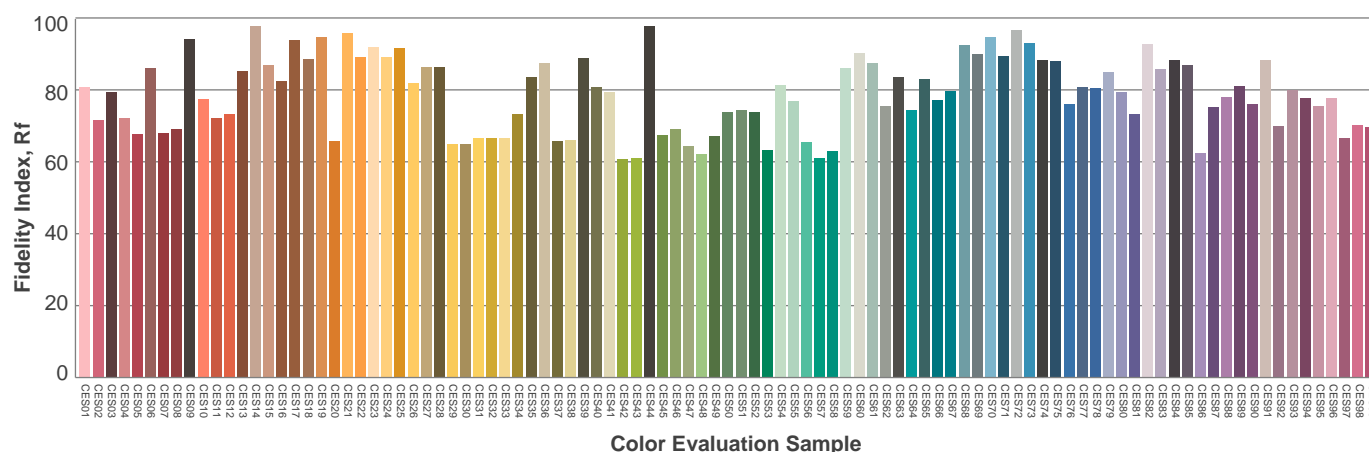
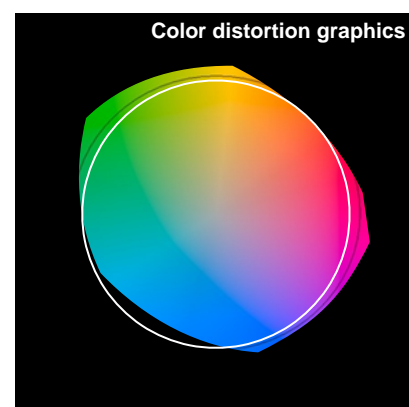
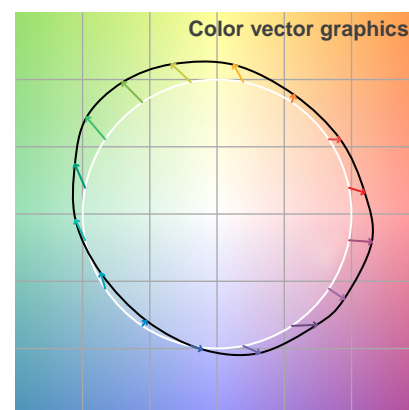
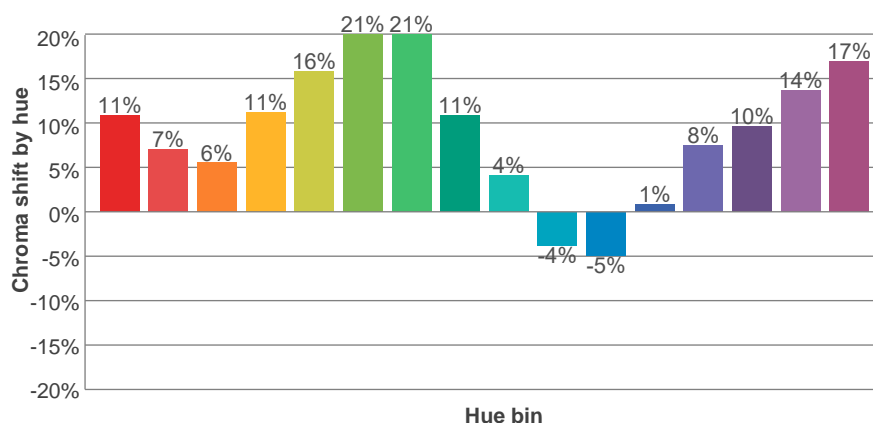
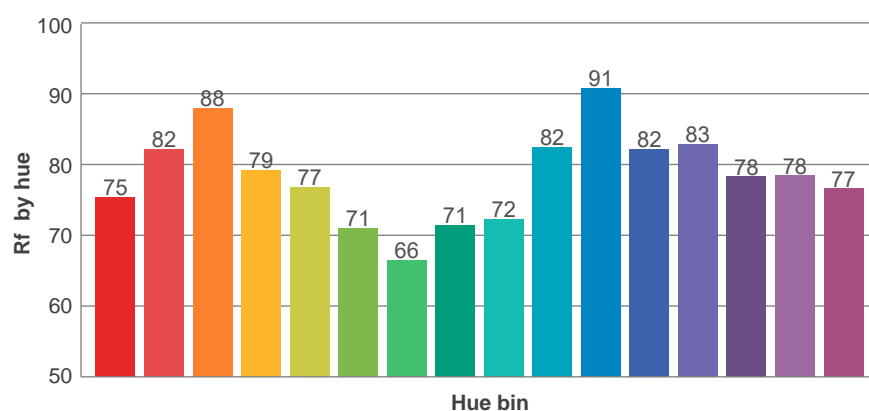
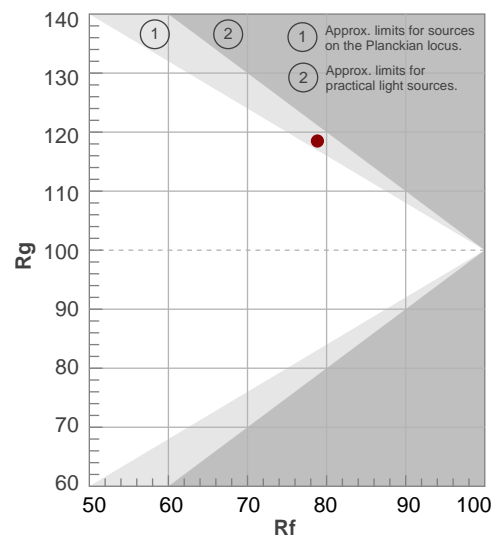
**Rf 78.8**

Fidelity index Rf

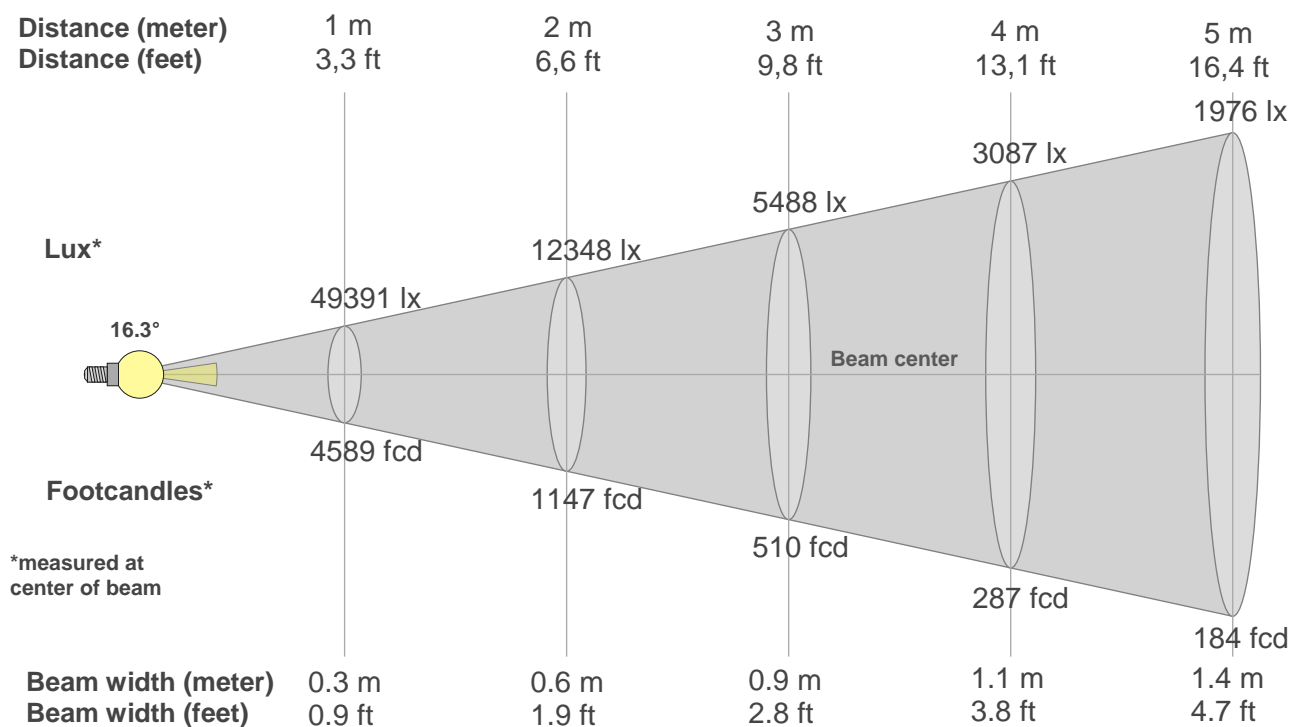
**Rg 118.5**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	75	11%	-6%
2	82	7%	-5%
3	88	6%	2%
4	79	11%	9%
5	77	16%	11%
6	71	21%	4%
7	66	21%	-6%
8	71	11%	-16%
9	72	4%	-16%
10	82	-4%	-11%
11	91	-5%	0%
12	82	1%	9%
13	83	8%	11%
14	78	10%	16%
15	78	14%	0%
16	77	17%	2%



## 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
49391lx	12348lx	5488lx	3087lx	1976lx	1372lx	1008lx	772lx	610lx	494lx	408lx	343lx	292lx	252lx	220lx	193lx	171lx	152lx	137lx	123lx
4588.6fcd	1147.1fcd	509.8fcd	286.8fcd	183.5fcd	127.5fcd	93.6fcd	71.7fcd	56.6fcd	45.9fcd	37.9fcd	31.9fcd	27.2fcd	23.4fcd	20.4fcd	17.9fcd	15.9fcd	14.2fcd	12.7fcd	11.5fcd

### 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°
49.4k	49.1k	48.0k	46.7k	45.0k	42.9k	39.9k	34.3k	26.2k	17.0k	8.4k	3.0k	1.3k	0.9k	0.8k	0.8k	0.8k	0.7k	0.7k	0.7k
100%	99%	97%	95%	91%	87%	81%	69%	53%	34%	17%	6%	3%	2%	2%	2%	2%	2%	2%	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°
49.4k	49.1k	48.0k	46.7k	45.0k	42.9k	39.9k	34.3k	26.2k	17.0k	8.4k	3.0k	1.3k	0.9k	0.8k	0.8k	0.8k	0.7k	0.7k	0.7k
100%	99%	97%	95%	91%	87%	81%	69%	53%	34%	17%	6%	3%	2%	2%	2%	2%	2%	2%	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°
49.4k	49.1k	48.0k	46.7k	45.0k	42.9k	39.9k	34.3k	26.2k	17.0k	8.4k	3.0k	1.3k	0.9k	0.8k	0.8k	0.8k	0.7k	0.7k	0.7k
100%	99%	97%	95%	91%	87%	81%	69%	53%	34%	17%	6%	3%	2%	2%	2%	2%	2%	2%	1%

### Intensities in 270° c-plane

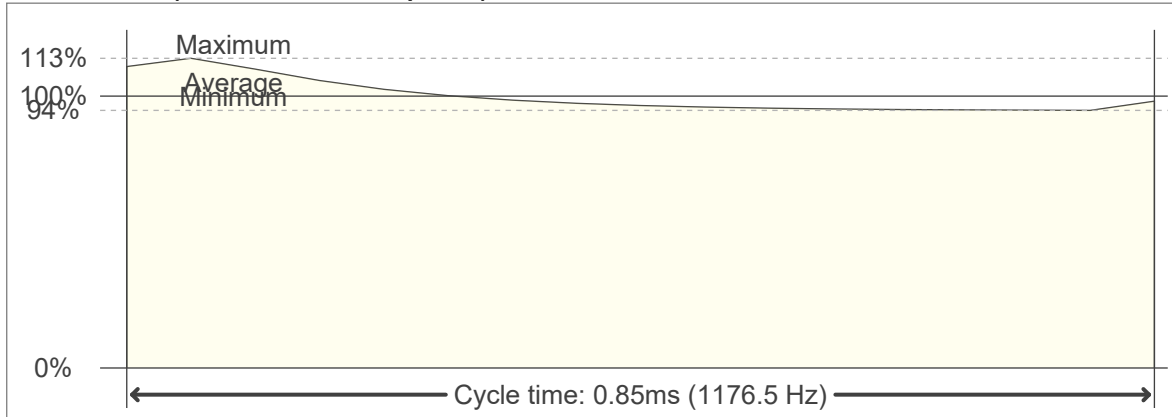
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
49.4k	49.1k	48.0k	46.7k	45.0k	42.9k	39.9k	34.3k	26.2k	17.0k	8.4k	3.0k	1.3k	0.9k	0.8k	0.8k	0.8k	0.7k	0.7k	0.7k
100%	99%	97%	95%	91%	87%	81%	69%	53%	34%	17%	6%	3%	2%	2%	2%	2%	2%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16.3°	21.1°	24.1°	46.0%	38.0%

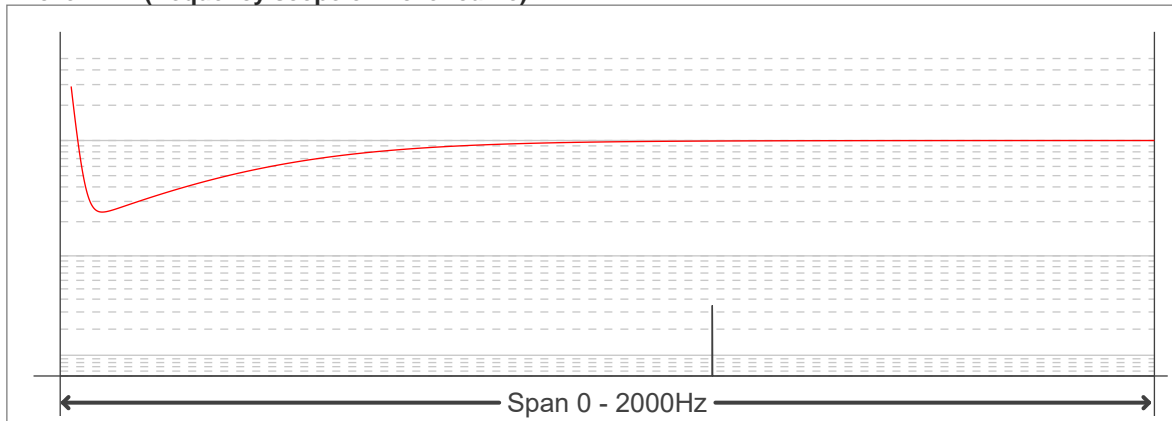
**Flicker curve (complete sampled flicker signal)**



**Flicker frame (frame of one flicker period)**



**Flicker FFT (frequency scope of flicker curve)**



**Flicker results:**

Flicker frequency:		1176.47 Hz	
Flicker index:	0.03	JA8/10 40Hz	0.16 %
Flicker percentage:	10.3 %	JA8/10 90Hz	0.17 %
SVM: (Visual flicker)	0.07	JA8/10 200Hz	0.17 %
PstLM	0	JA8/10 400Hz	0.19 %
Mp	0.12	JA8/10 1000Hz	0.55 %

**Flicker conditions:**

Sample rate:	20000 samples/second
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