Light efficiency:

29 Lumen/Watt

Light quality:

CRI: -28.4

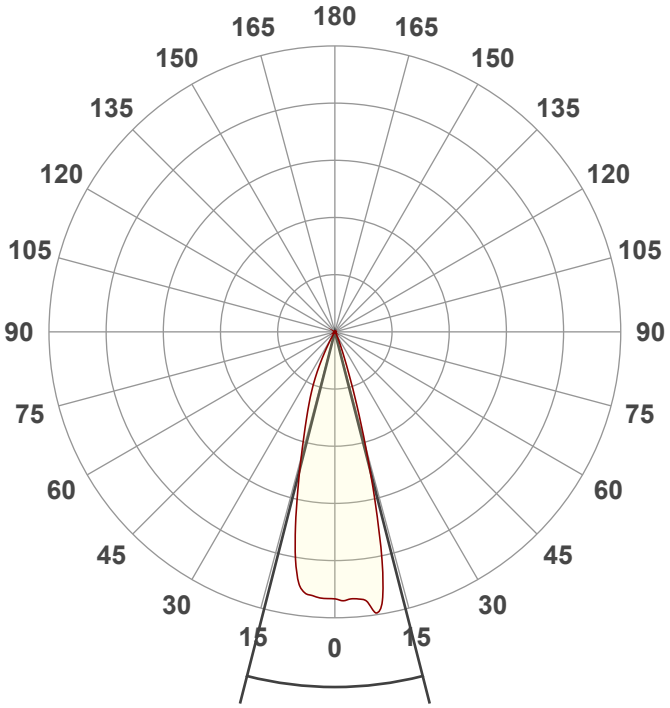
Color temperature:

1572 K

Output: 250 lm
Peak: 987 cd

Power: 8.5 W
PF: 0.48



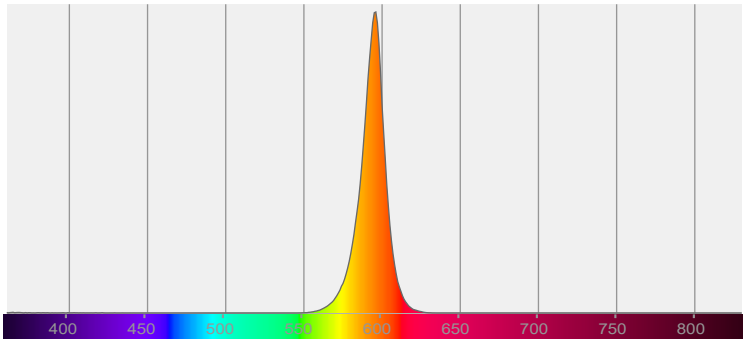


Beam angle 28.6°

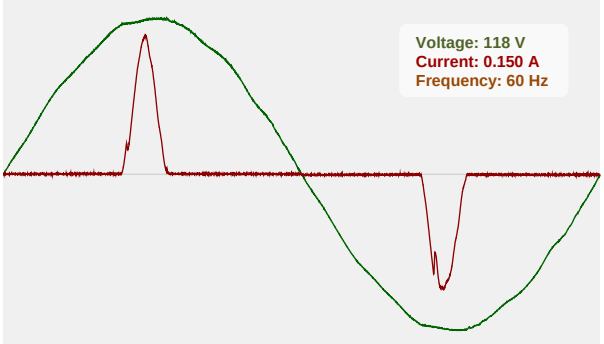
Product name:
LP 12 Hex (Amber)
Item number:
Amber
Date and time:
9/12/2019 1:03:46 PM

CIE 1931
x: 0.589
y: 0.411

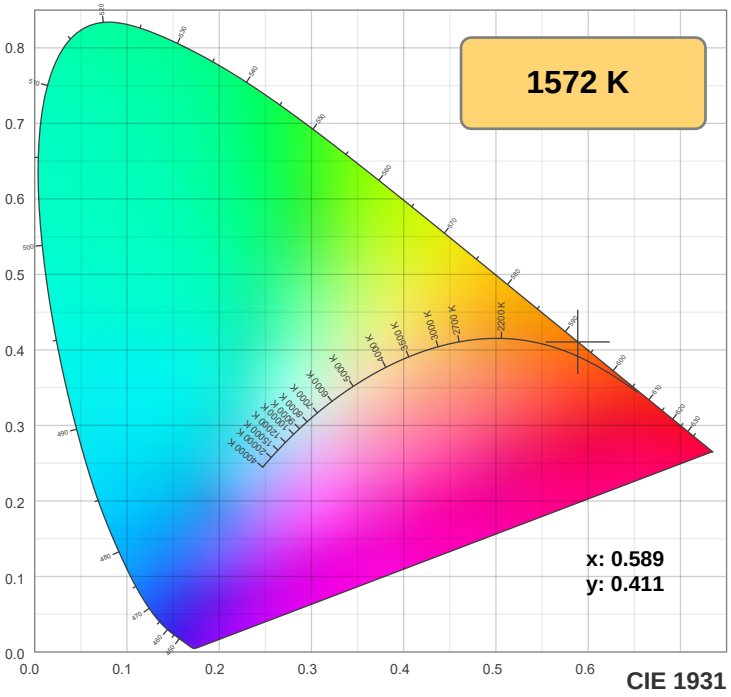
Spectra



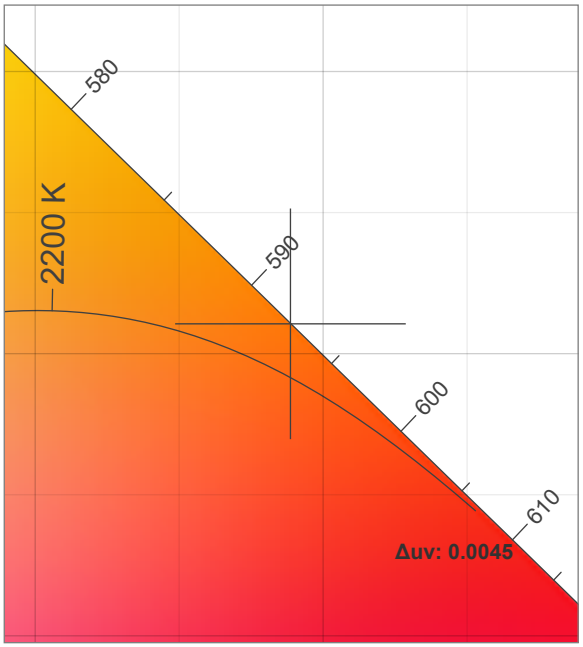
Power



Color details

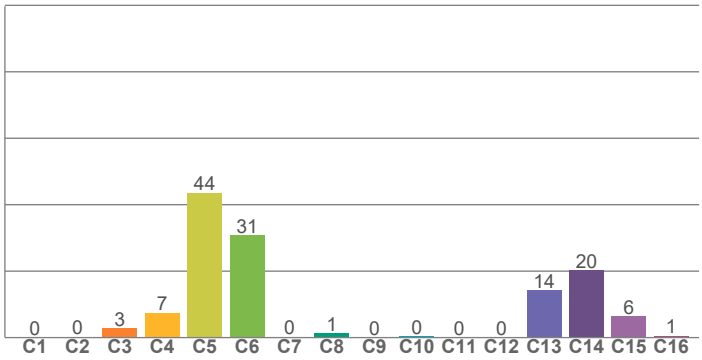


CIE 1931

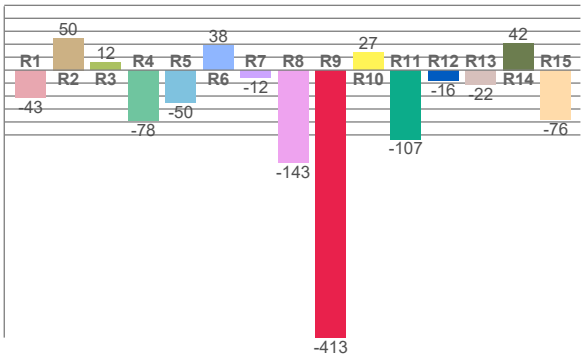


CIE 1931 ZOOM

TM-30: 1.0



CRI: -28.4 (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
-43.2	49.7	11.7	-77.9	-50.2	37.8	-11.7	-143.3	-412.9	26.6	-106.9	-16.1	-22.4	41.8	-76.4

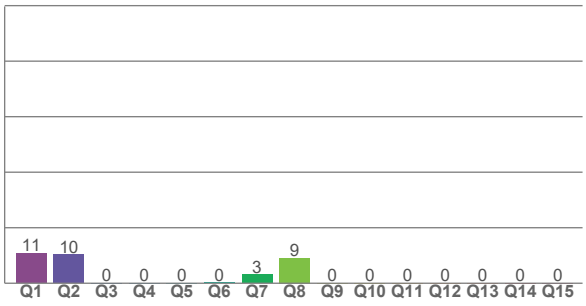
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.1	2.8	7.5	43.6	30.8	0.3	1.3	0.1	0.3	0.1	0.1	14.3	20.2	6.3	0.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
10.8	10.4	0.0	0.0	0.1	0.3	3.1	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1

CQS: 0.0



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
1572 K	-28.4	-412.9	1.0	1.2	0.0	0.589	0.411	0.349	0.365	0.0045

TM-30 details

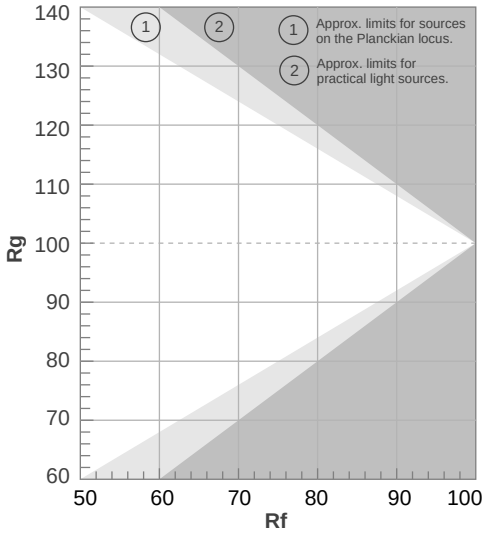
Rf 1.0

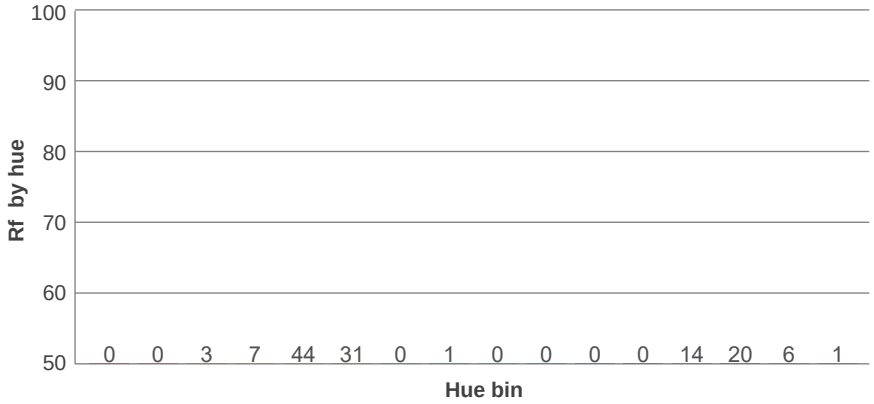
Fidelity index Rf

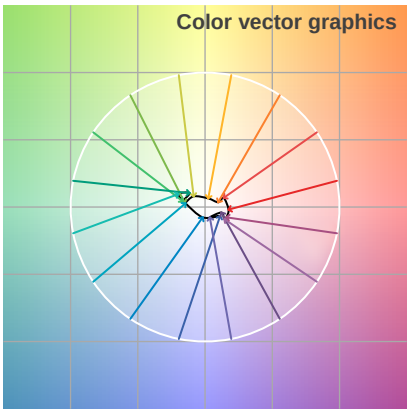
Rg 1.2

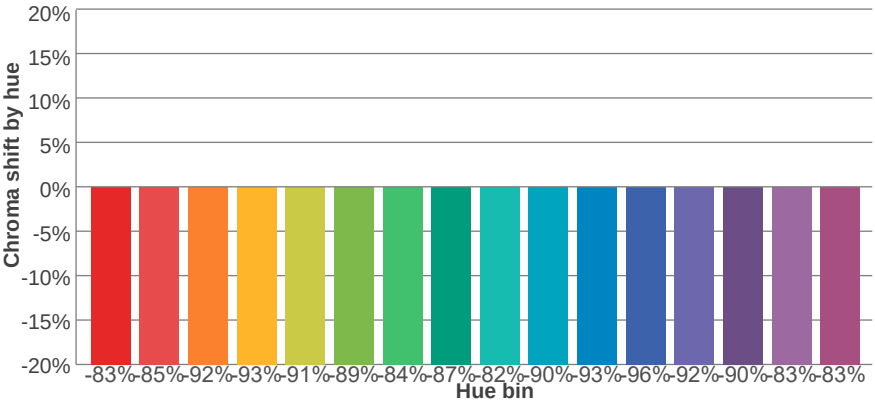
Gamut index Rg

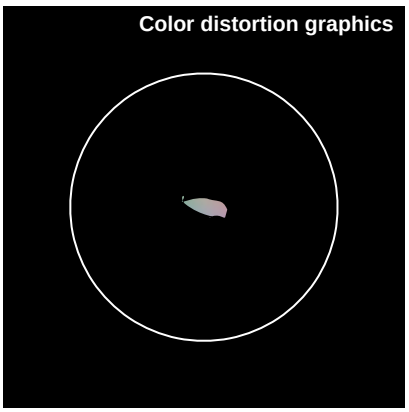
		Shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	-83%	-5%
2	0	-85%	-2%
3	3	-92%	-6%
4	7	-93%	-1%
5	44	-91%	7%
6	31	-89%	11%
7	0	-84%	6%
8	1	-87%	-8%
9	0	-82%	-13%
10	0	-90%	-10%
11	0	-93%	3%
12	0	-96%	12%
13	14	-92%	2%
14	20	-90%	8%
15	6	-83%	0%
16	1	-83%	-4%

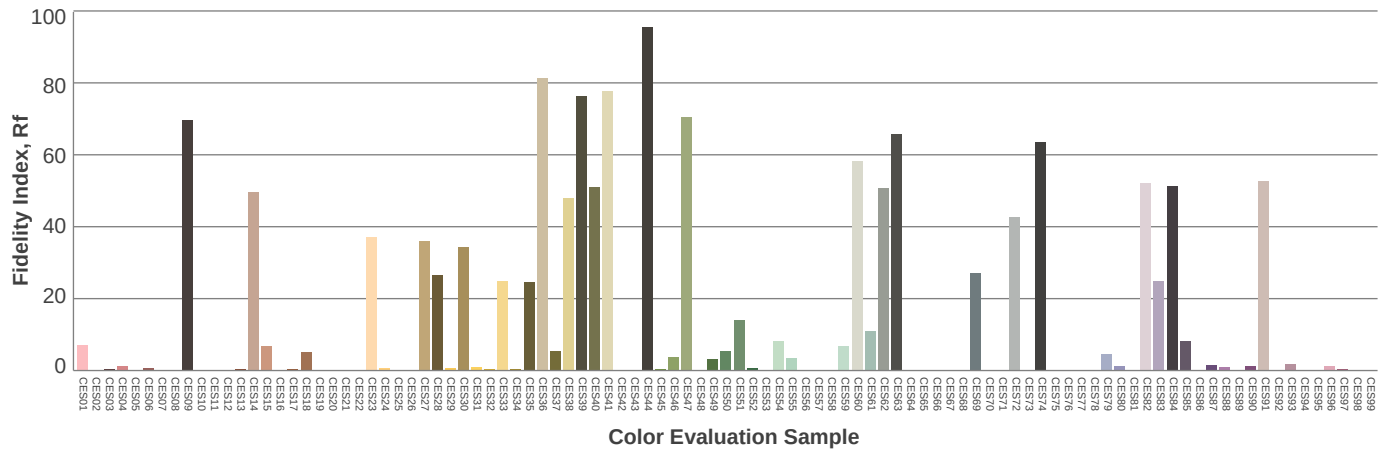




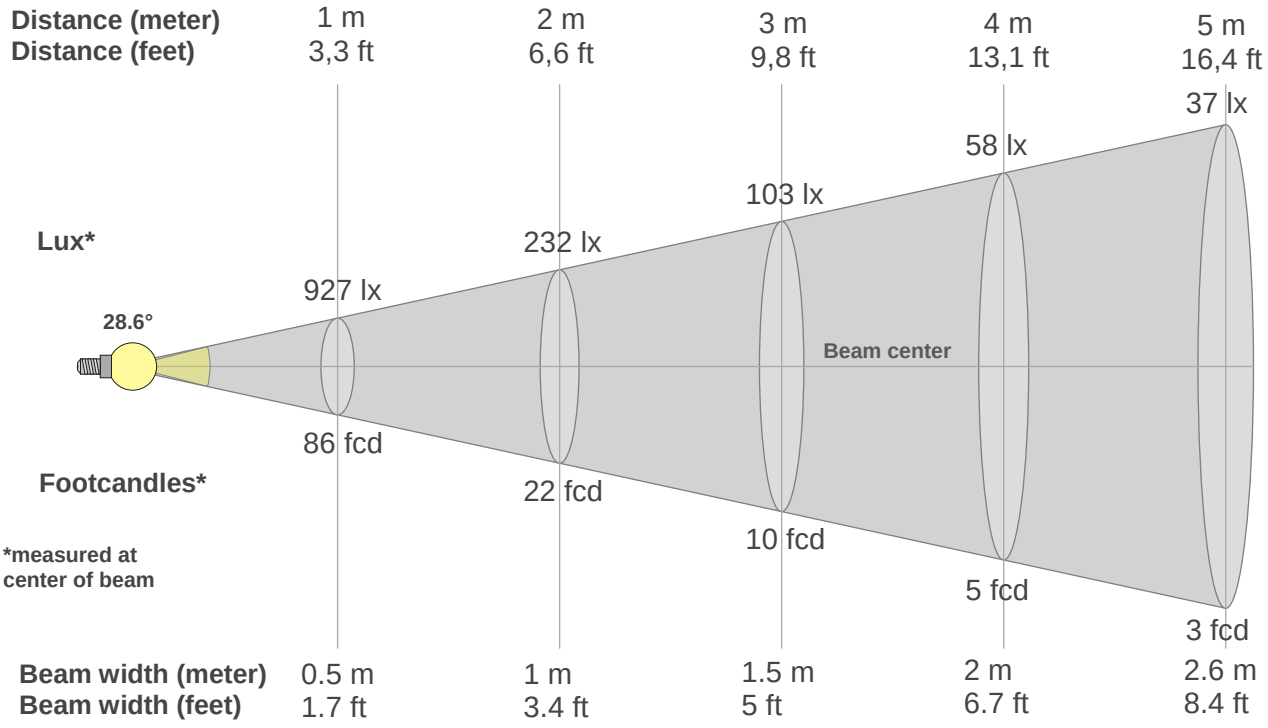








Beam details



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
927lx	232lx	103lx	58lx	37lx	26lx	19lx	14lx	11lx	9lx	8lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx
86.1fcd	21.5fcd	9.6fcd	5.4fcd	3.4fcd	2.4fcd	1.8fcd	1.3fcd	1.1fcd	0.9fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
927	933	930	937	977	949	770	530	326	181	97	59	37	24	16	11	8	6	4	3
100%	101%	100%	101%	105%	102%	83%	57%	35%	19%	10%	6%	4%	3%	2%	1%	1%	1%	0%	0%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
927	933	930	937	977	949	770	530	326	181	97	59	37	24	16	11	8	6	4	3
100%	101%	100%	101%	105%	102%	83%	57%	35%	19%	10%	6%	4%	3%	2%	1%	1%	1%	0%	0%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
927	926	922	915	885	789	649	513	403	321	259	203	147	92	46	21	9	6	4	4
100%	100%	99%	99%	95%	85%	70%	55%	43%	35%	28%	22%	16%	10%	5%	2%	1%	1%	0%	0%

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
927	926	922	915	885	789	649	513	403	321	259	203	147	92	46	21	9	6	4	4
100%	100%	99%	99%	95%	85%	70%	55%	43%	35%	28%	22%	16%	10%	5%	2%	1%	1%	0%	0%

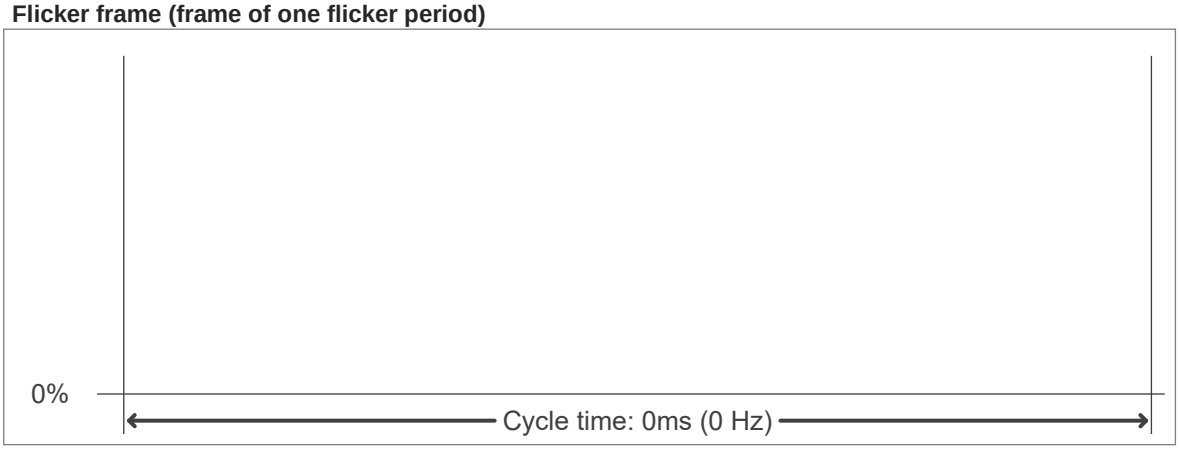
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28.6°	**45.7°**	**55.5°**	**100.0%**	**99.7%**

Flicker

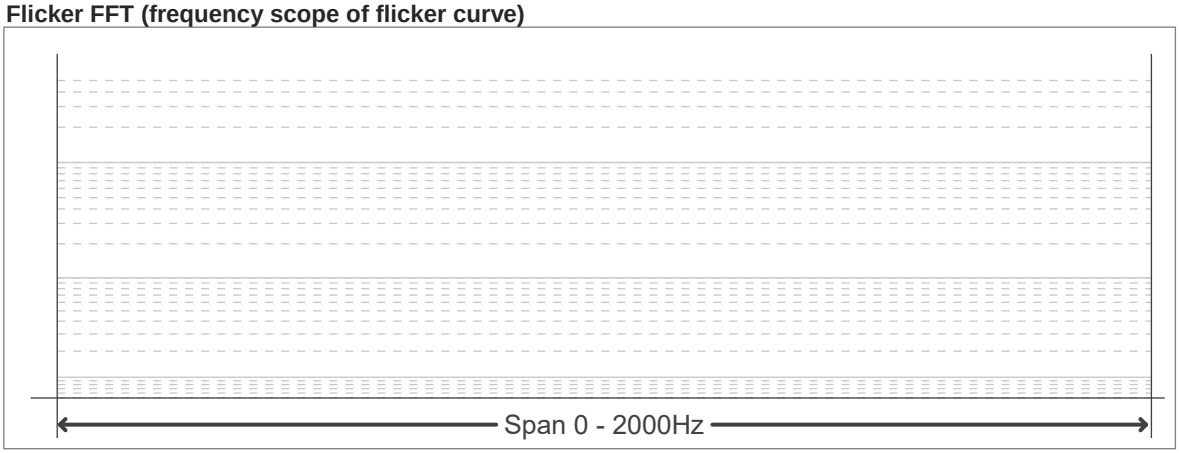
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:		n/a Hz	
Flicker index:	n/a	JA8/10 40Hz	n/a %
Flicker percentage:	n/a %	JA8/10 90Hz	n/a %
SVM: (Visual flicker)	n/a	JA8/10 200Hz	n/a %
PstLM	n/a	JA8/10 400Hz	n/a %
Mp	n/a	JA8/10 1000Hz	n/a %

Flicker conditions:

Sample rate:	n/a samples/second