Light efficiency:

40 Lumen/Watt

Light quality:

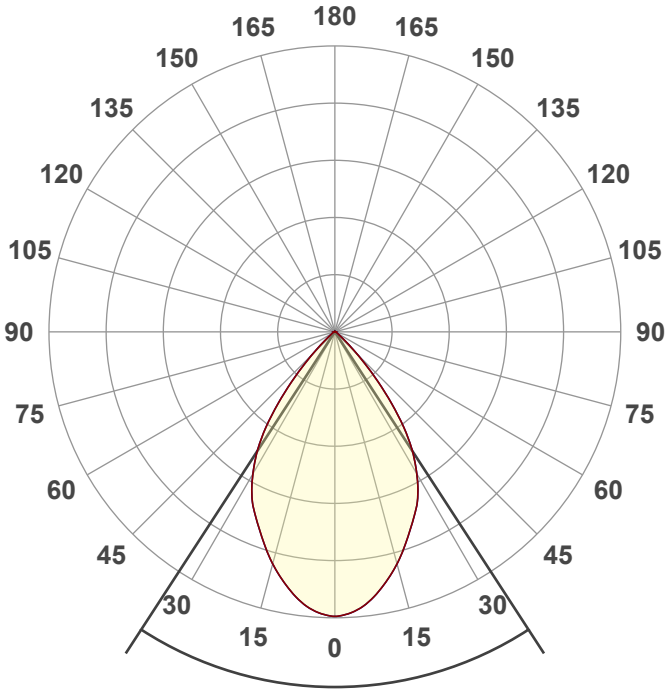
CRI: 96.5

Color temperature:

3254 K

Output: 8362 lm
Peak: 8108 cd

Power: 210 W
PF: 1.0



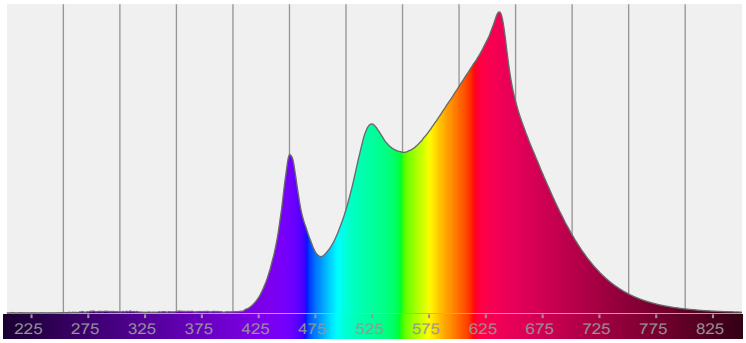
Beam angle **66.1°**

Product name:
Encore DBX (Full on,3200K)
Item number:

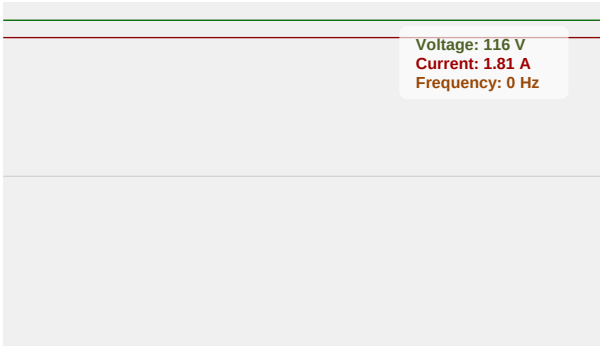
Date and time:
6/30/2026 1:39:49 PM

CIE 1931
x: 0.420
y: 0.397

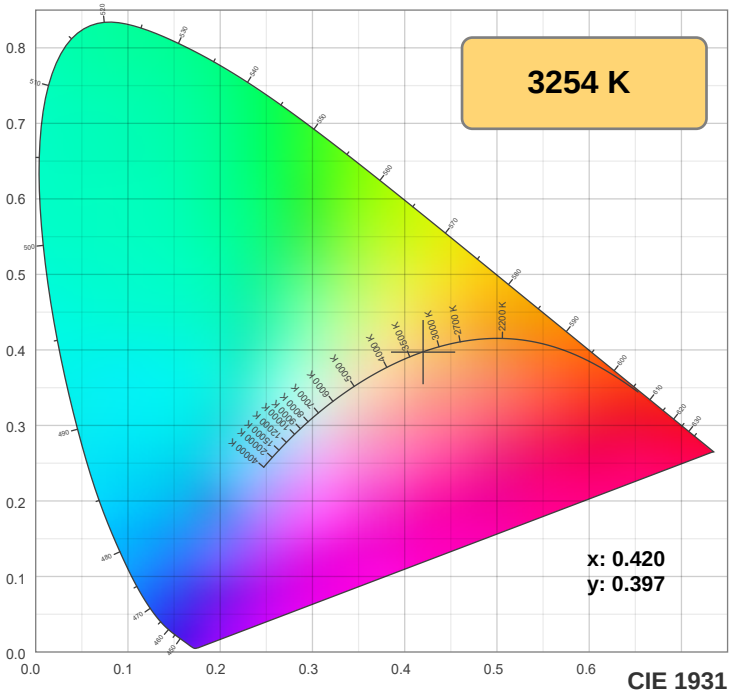
Spectra



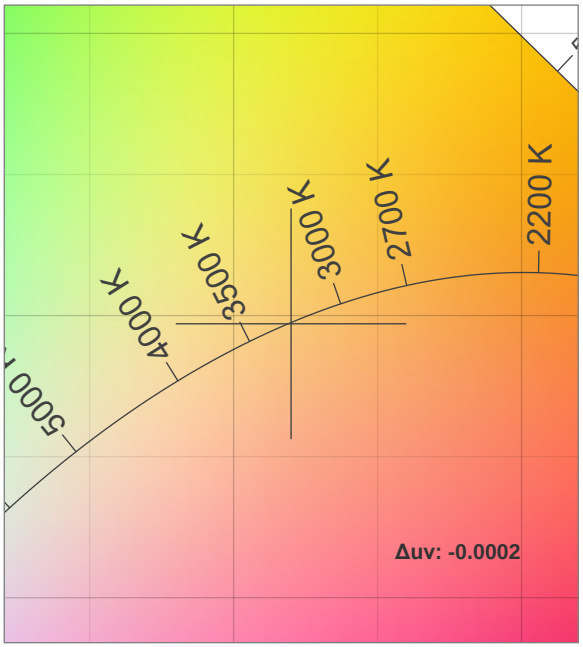
Power



Color details

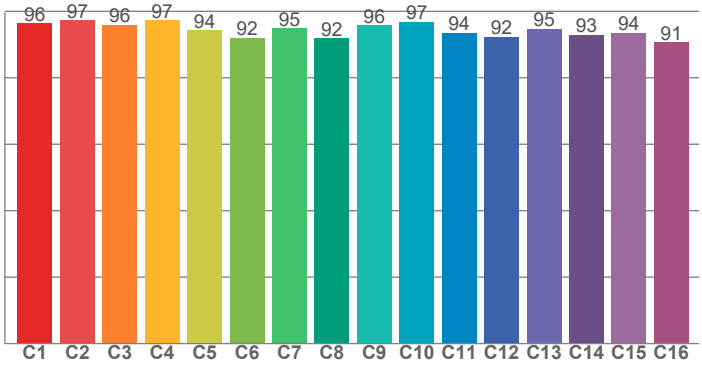


CIE 1931

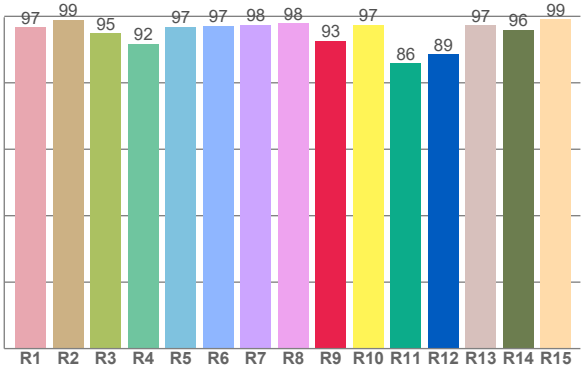


CIE 1931 ZOOM

TM-30: 94.7



CRI: 96.5 (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
96.7	99.0	94.8	91.8	96.9	97.2	97.5	98.0	92.7	97.5	85.9	88.7	97.4	96.0	99.1

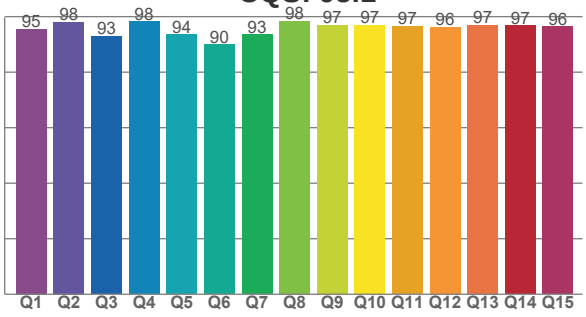
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96.4	97.3	95.9	97.3	94.3	92.0	94.9	91.9	95.8	96.8	93.6	92.3	94.7	92.9	93.5	90.7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95.5	98.0	92.9	98.3	93.5	90.0	93.5	98.4	97.0	97.0	96.5	96.3	96.9	96.8	96.4

CQS: 95.1



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
3254 K	96.5	92.7	94.7	103.7	95.1	0.420	0.397	0.243	0.344	-0.0002

TM-30 details

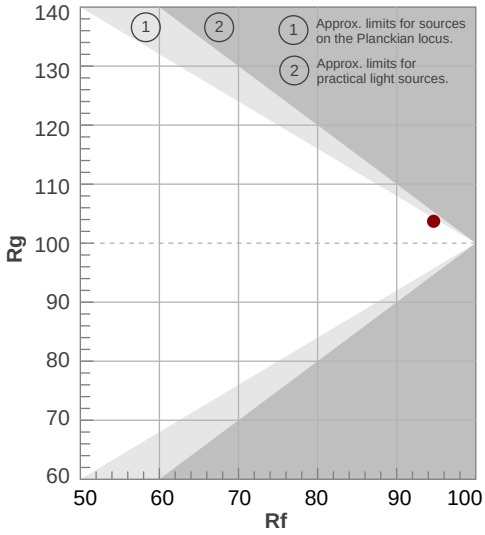
Rf 94.7

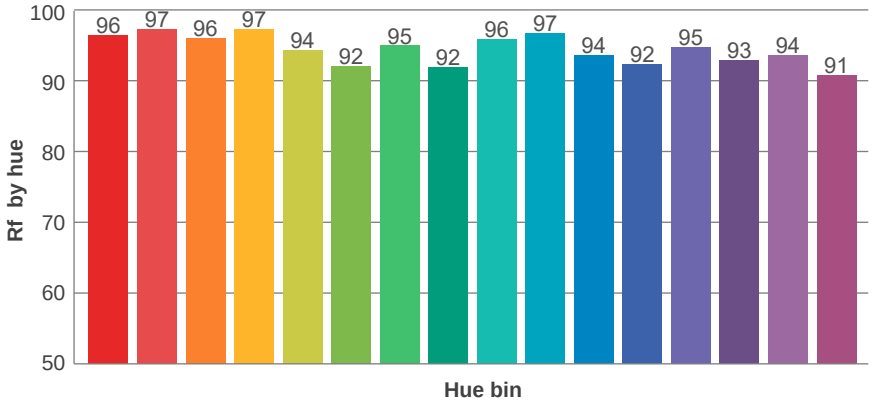
Fidelity index Rf

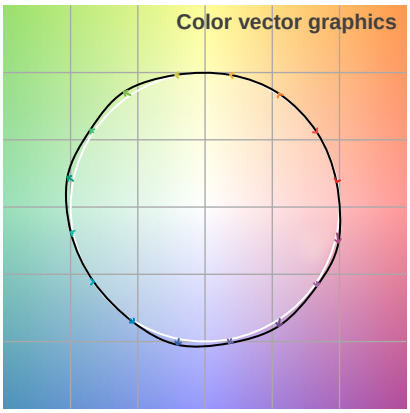
Rg 103.7

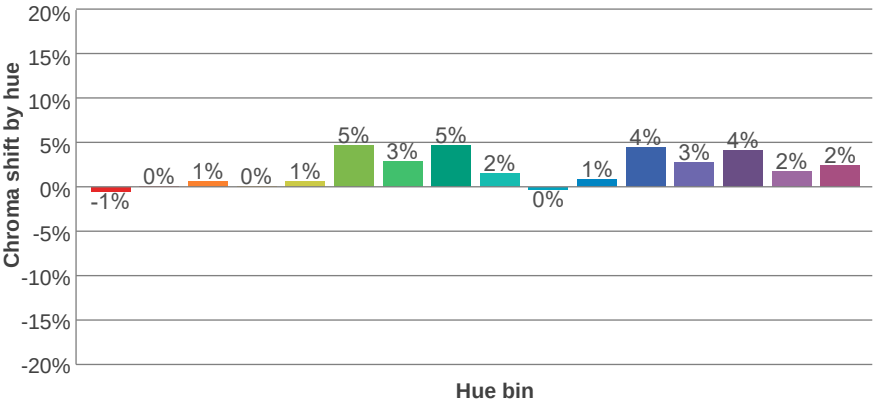
Gamut index Rg

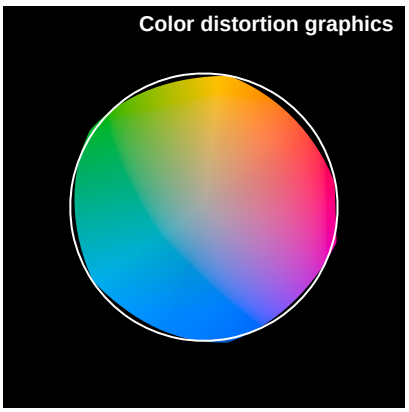
		Shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	-1%	-1%
2	97	0%	0%
3	96	1%	1%
4	97	0%	1%
5	94	1%	2%
6	92	5%	2%
7	95	3%	0%
8	92	5%	-2%
9	96	2%	-1%
10	97	0%	0%
11	94	1%	4%
12	92	4%	0%
13	95	3%	-2%
14	93	4%	-4%
15	94	2%	-3%
16	91	2%	-6%

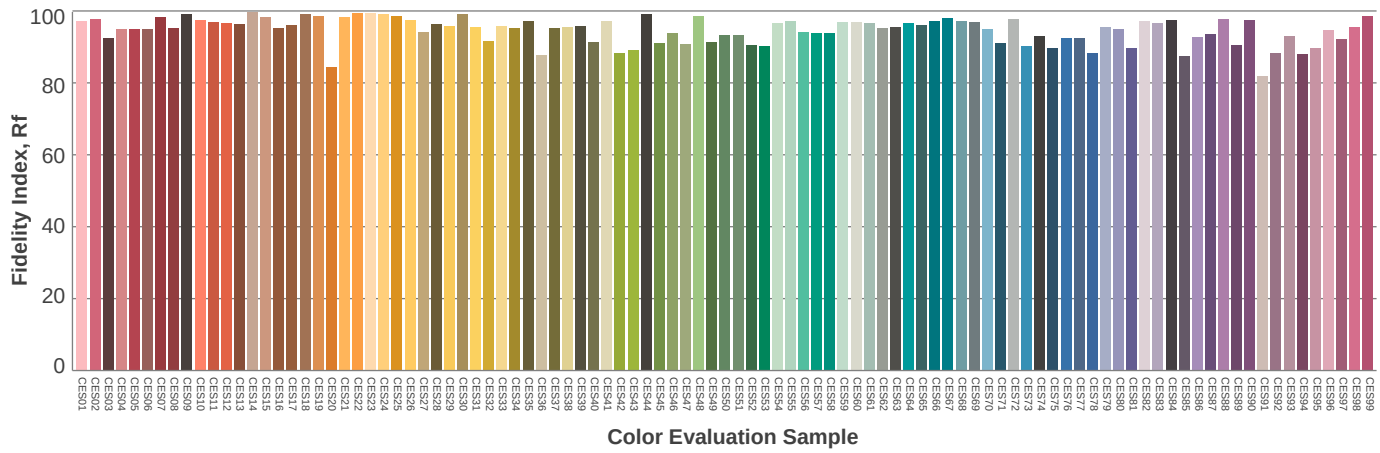




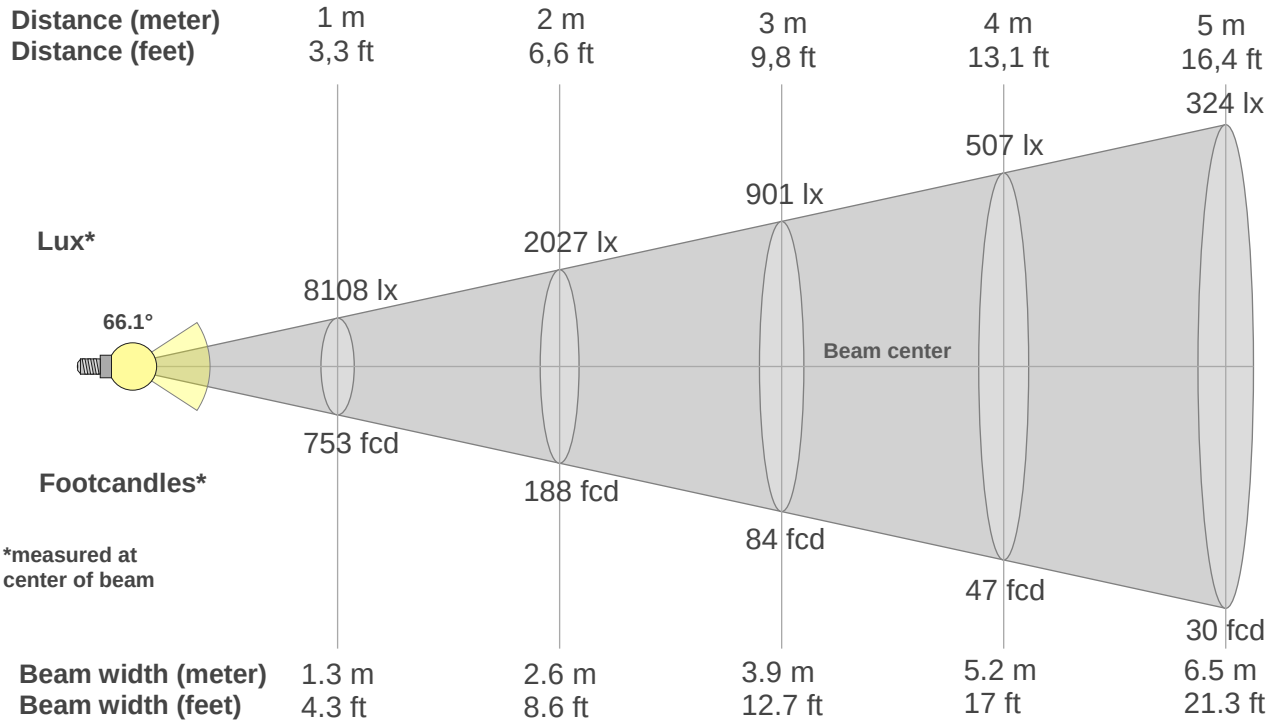








Beam details



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
8108lx	2027lx	901lx	507lx	324lx	225lx	165lx	127lx	100lx	81lx	67lx	56lx	48lx	41lx	36lx	32lx	28lx	25lx	22lx	20lx
753.3fcd	188.3fcd	83.7fcd	47.1fcd	30.1fcd	20.9fcd	15.4fcd	11.8fcd	9.3fcd	7.5fcd	6.2fcd	5.2fcd	4.5fcd	3.8fcd	3.3fcd	2.9fcd	2.6fcd	2.3fcd	2.1fcd	1.9fcd

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°
8108	8071	7987	7861	7677	7460	7227	6980	6719	6437	6158	5891	5634	5372	5043	4670	4270	3825	3312	2720
100%	100%	99%	97%	95%	92%	89%	86%	83%	79%	76%	73%	69%	66%	62%	58%	53%	47%	41%	34%

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°
8108	8071	7987	7861	7677	7460	7227	6980	6719	6437	6158	5891	5634	5372	5043	4670	4270	3825	3312	2720
100%	100%	99%	97%	95%	92%	89%	86%	83%	79%	76%	73%	69%	66%	62%	58%	53%	47%	41%	34%

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°
8108	8071	7987	7861	7677	7460	7227	6980	6719	6437	6158	5891	5634	5372	5043	4670	4270	3825	3312	2720
100%	100%	99%	97%	95%	92%	89%	86%	83%	79%	76%	73%	69%	66%	62%	58%	53%	47%	41%	34%

Intensities in 270° c-plane

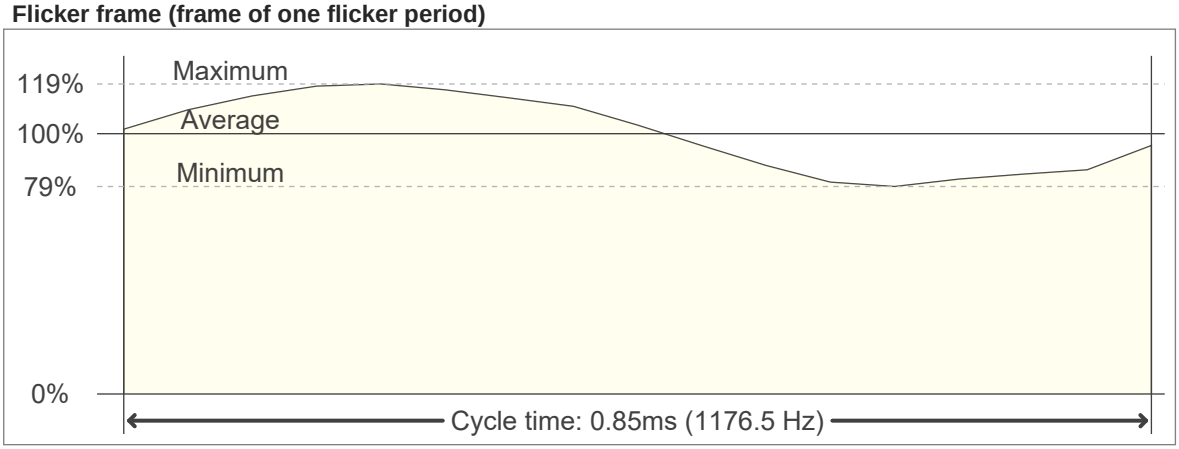
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
8108	8071	7987	7861	7677	7460	7227	6980	6719	6437	6158	5891	5634	5372	5043	4670	4270	3825	3312	2720
100%	100%	99%	97%	95%	92%	89%	86%	83%	79%	76%	73%	69%	66%	62%	58%	53%	47%	41%	34%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
66.1°	**91.1°**	**104.4°**	**98.6%**	**94.4%**

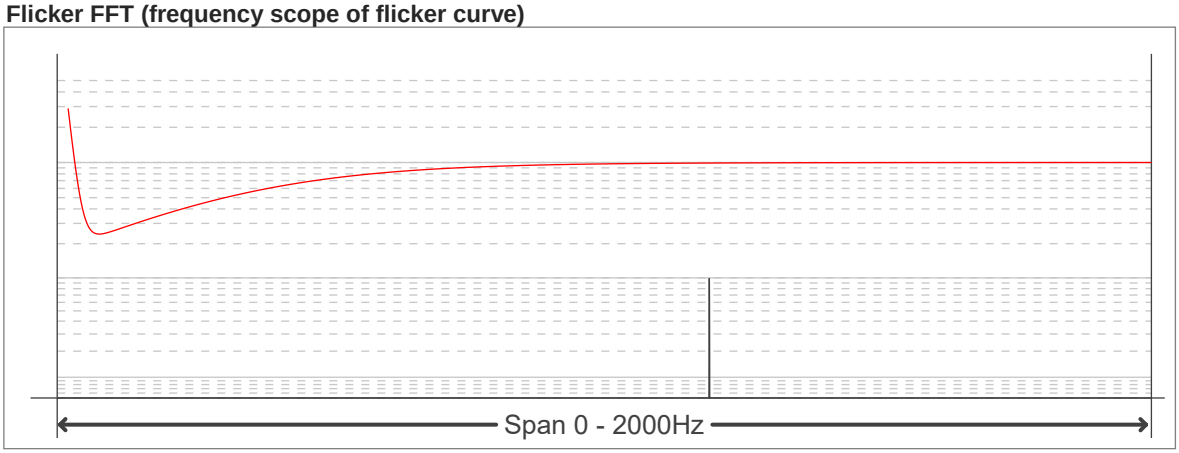
Flicker

Flicker curve (complete sampled flicker signal)

Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:		1176.47 Hz	
Flicker index:	0.06	JA8/10 40Hz	0.15 %
Flicker percentage:	20.76 %	JA8/10 90Hz	0.32 %
SVM: (Visual flicker)	0.2	JA8/10 200Hz	0.71 %
PstLM	0	JA8/10 400Hz	1.41 %
Mp	0.03	JA8/10 1000Hz	4.53 %

Flicker conditions:

Sample rate:	20000 samples/second