

Light efficiency:

43 Lumen/Watt

Light quality:

CRI: 98.0

Color temperature:

3146 K

Output: 12938 lm

Peak: 138705 cd

Power: 304 W

PF: 1.0



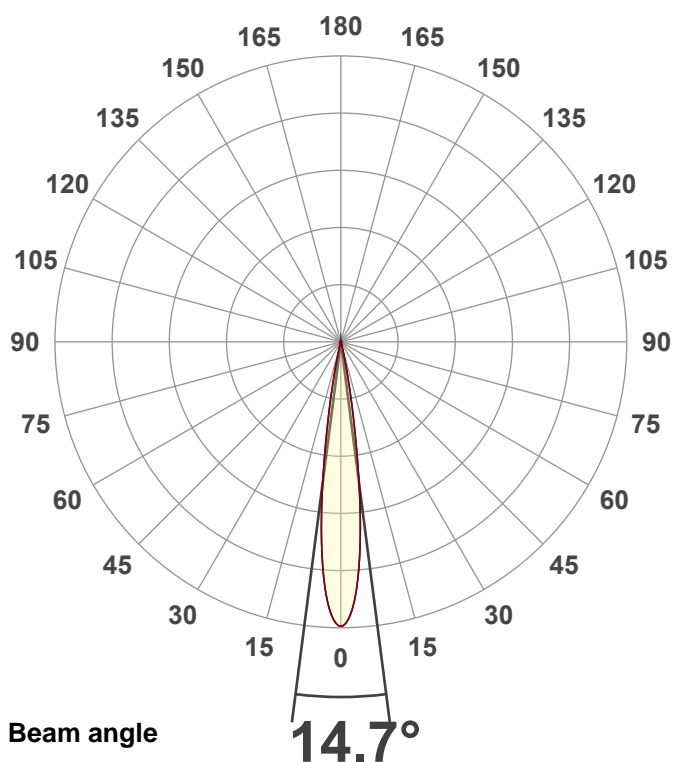
Product name:

PAR Z300 3K (Zoom 20°, Full On)

Item number:

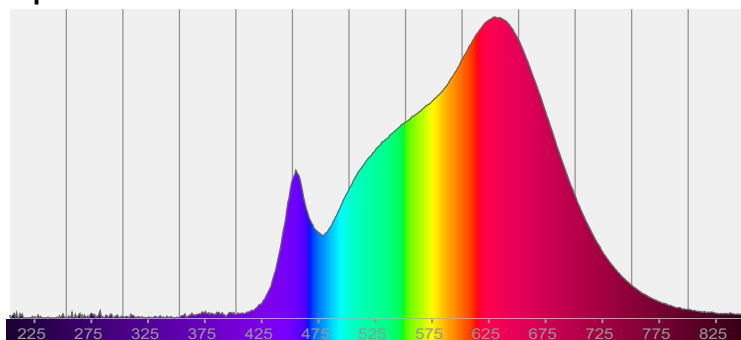
Date and time:

8/16/2025 11:57:41 AM



CIE 1931
x: 0.427
y: 0.400

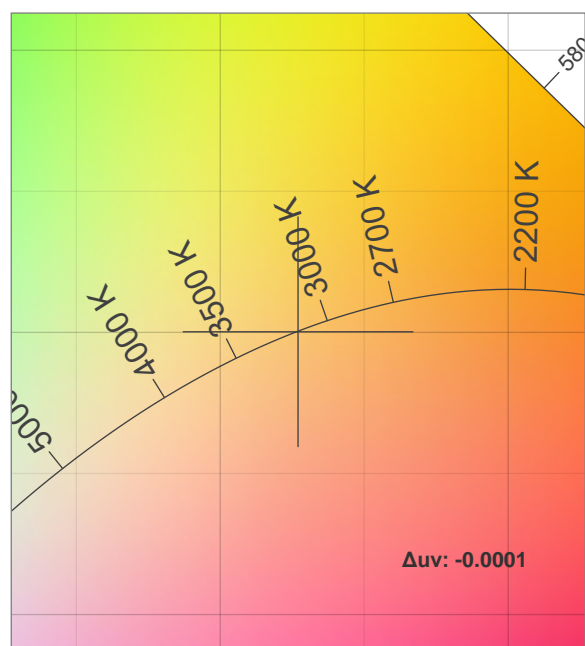
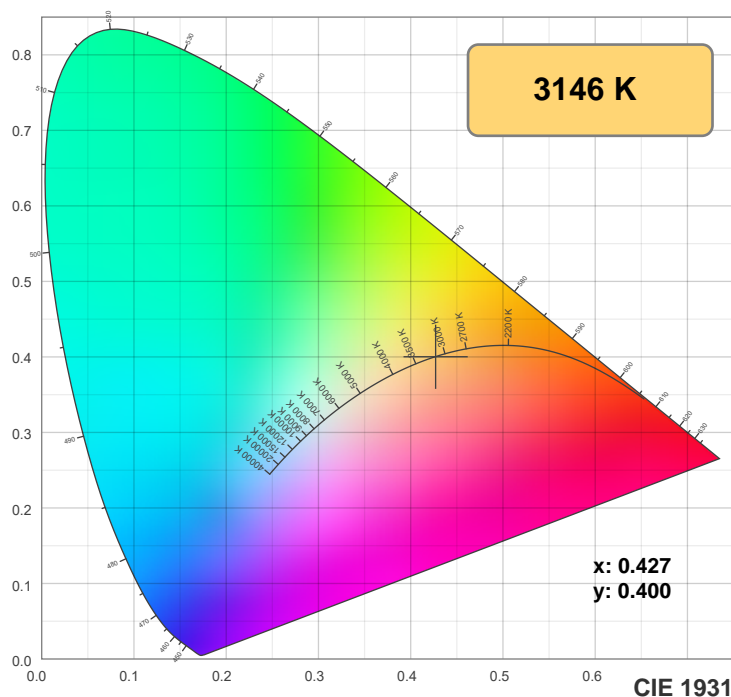
Spectra



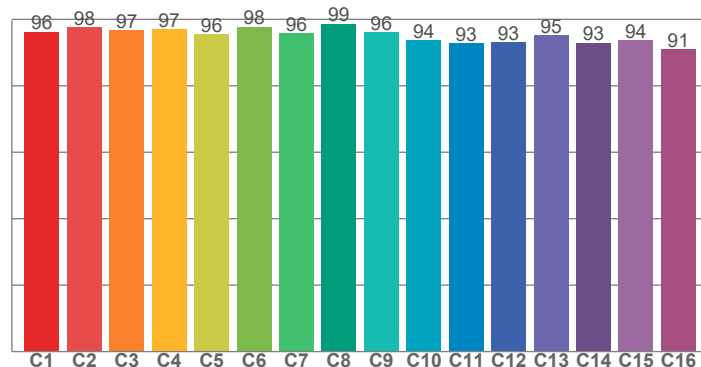
Power

Voltage: 117 V
Current: 2.60 A
Frequency: 0 Hz

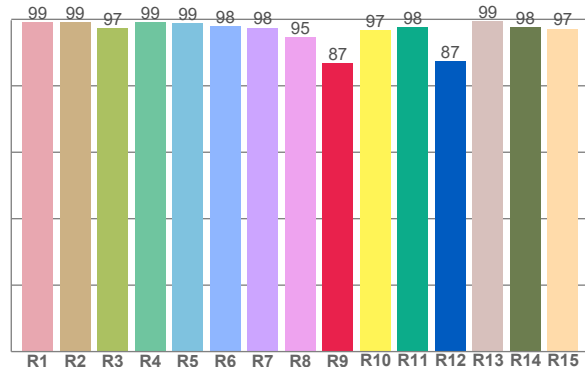
Color details



TM-30: 95.4



CRI: 98.0 (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
99.2	99.1	97.3	99.2	98.7	97.9	97.5	94.7	86.8	96.7	97.6	87.4	99.4	97.7	97.2

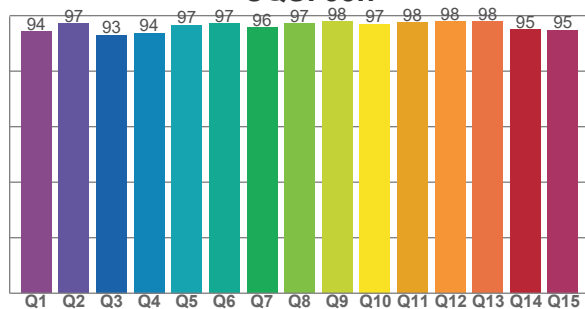
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96.2	97.6	96.7	97.0	95.6	97.7	95.8	98.7	96.2	93.6	92.9	93.1	95.2	92.9	93.6	90.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94.3	97.1	93.0	93.8	96.6	97.1	95.8	97.1	97.9	97.0	97.6	97.9	97.9	95.1	94.8

CQS: 95.7



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
3146 K	98.0	86.8	95.4	100.5	95.7	0.427	0.400	0.246	0.346	-0.0001

TM-30 details

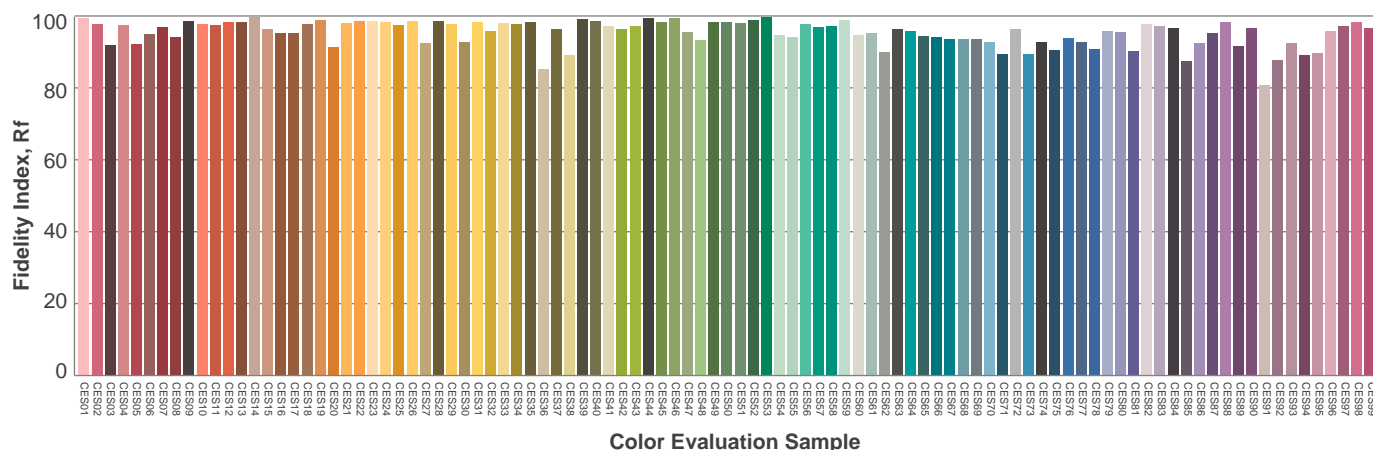
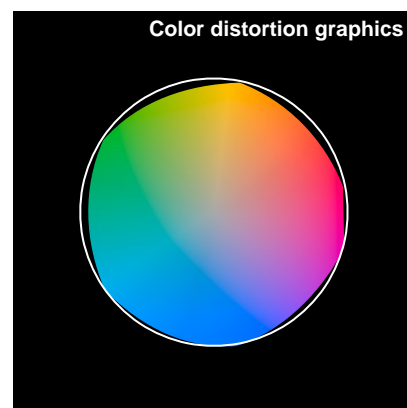
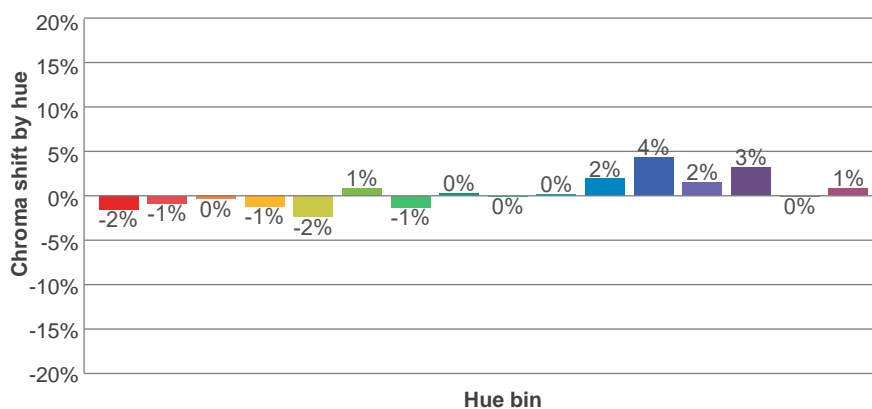
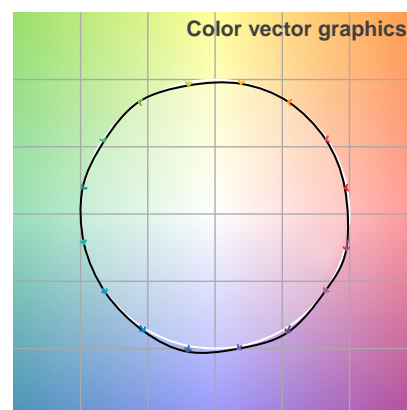
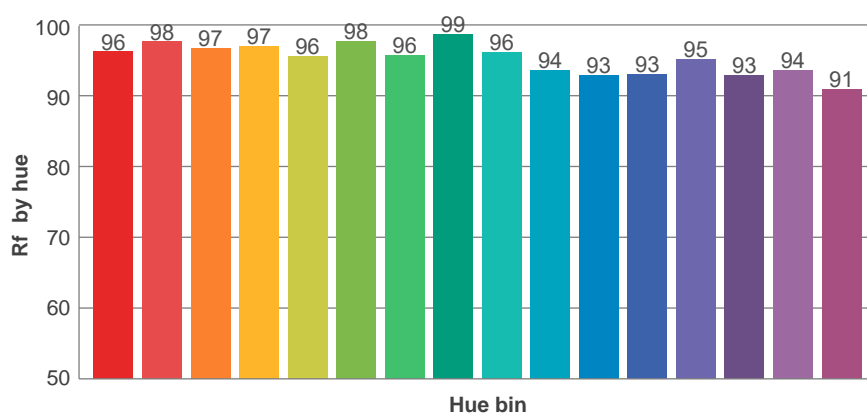
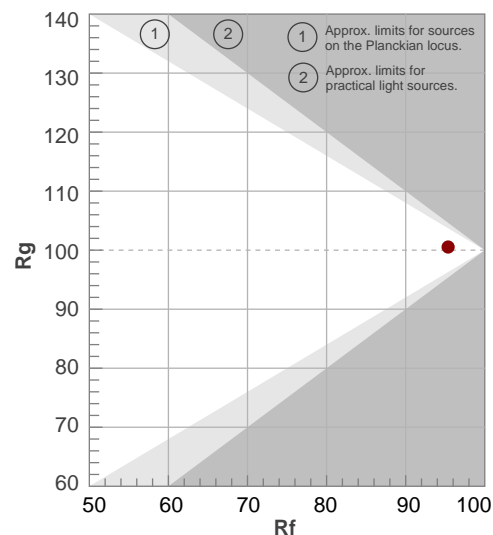
Rf 95.4

Fidelity index Rf

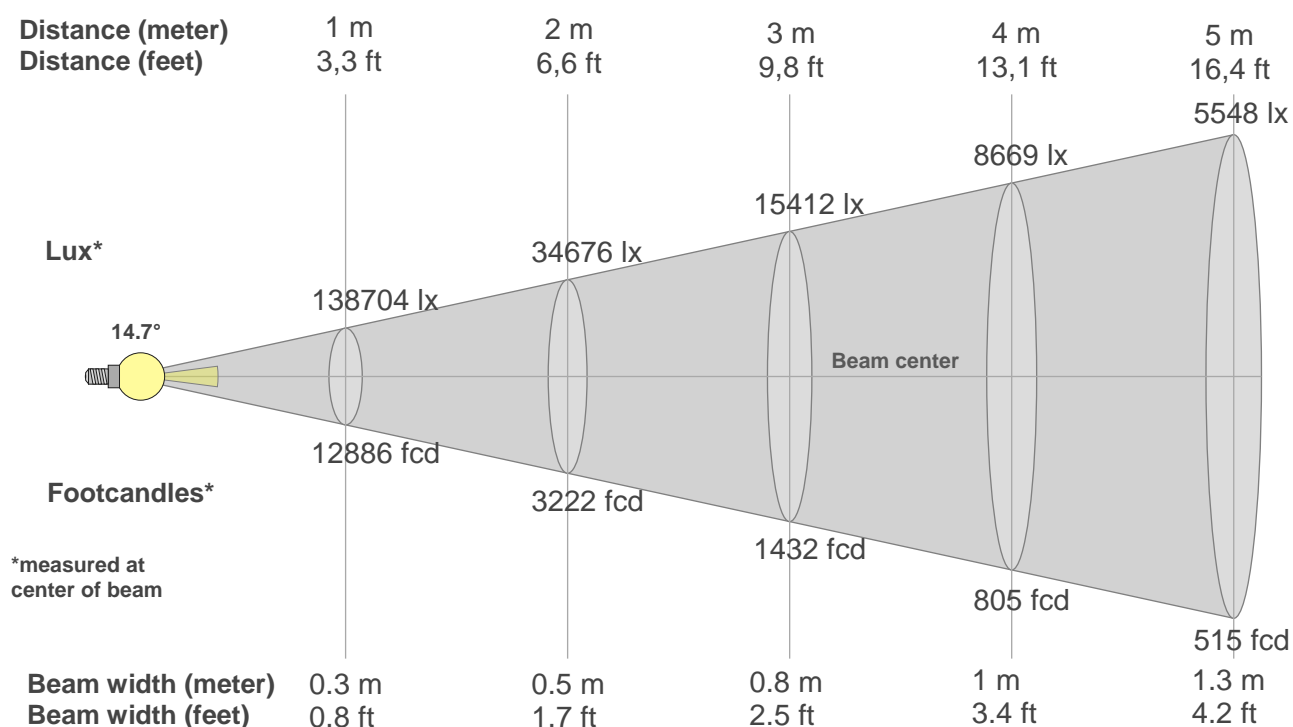
Rg 100.5

Gamut index Rg

Hue Bin	Ri	Shifts (%)	
		Chroma	Hue
1	96	-2%	0%
2	98	-1%	0%
3	97	0%	1%
4	97	-1%	0%
5	96	-2%	1%
6	98	1%	1%
7	96	-1%	1%
8	99	0%	1%
9	96	0%	3%
10	94	0%	4%
11	93	2%	5%
12	93	4%	0%
13	95	2%	-3%
14	93	3%	-5%
15	94	0%	-3%
16	91	1%	-7%



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
138704lx	34676lx	15412lx	8669lx	5548lx	3853lx	2831lx	2167lx	1712lx	1387lx	1146lx	963lx	821lx	708lx	616lx	542lx	480lx	428lx	384lx	347lx
12886.1 fcd	3221.5 fcd	1431.8 fcd	805.4 fcd	515.4 fcd	357.9 fcd	263 fcd	201.3 fcd	159.1 fcd	128.9 fcd	106.5 fcd	89.5 fcd	76.2 fcd	65.7 fcd	57.3 fcd	50.3 fcd	44.6 fcd	39.8 fcd	35.7 fcd	32.2 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°
139k	137k	133k	126k	117k	105k	91k	75k	58k	43k	30k	19k	11k	6k	3k	1k	1k	1k	1k	0k
100%	99%	96%	91%	84%	76%	65%	54%	42%	31%	22%	14%	8%	4%	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°
139k	137k	133k	126k	117k	105k	91k	75k	58k	43k	30k	19k	11k	6k	3k	1k	1k	1k	1k	0k
100%	99%	96%	91%	84%	76%	65%	54%	42%	31%	22%	14%	8%	4%	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°
139k	137k	133k	126k	117k	105k	91k	75k	58k	43k	30k	19k	11k	6k	3k	1k	1k	1k	1k	0k
100%	99%	96%	91%	84%	76%	65%	54%	42%	31%	22%	14%	8%	4%	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°
139k	137k	133k	126k	117k	105k	91k	75k	58k	43k	30k	19k	11k	6k	3k	1k	1k	1k	1k	0k
100%	99%	96%	91%	84%	76%	65%	54%	42%	31%	22%	14%	8%	4%	2%	1%	1%	0%	0%	0%

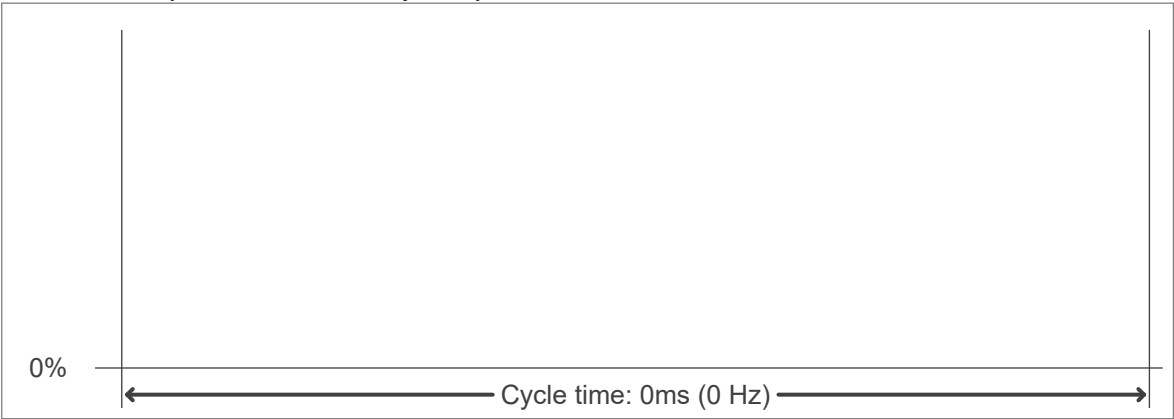
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
14.7°	23.3°	27.5°	75.7%	71.8%



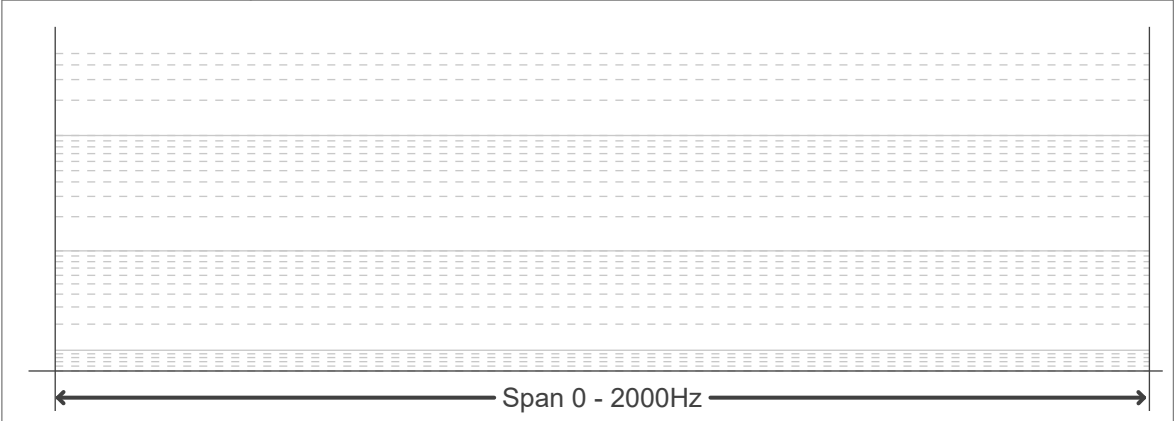
Flicker curve (complete sampled flicker signal)



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
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