

Light efficiency:

39 Lumen/Watt

Light quality:

CRI: 77.6

Color temperature:

2670 K

Output: 1008 lm

Peak: 7935 cd

Power: 25.7 W

PF: 0.98



Tracking number: [n/a](#)

Product name:

Dotz Par RGBL

Item number:

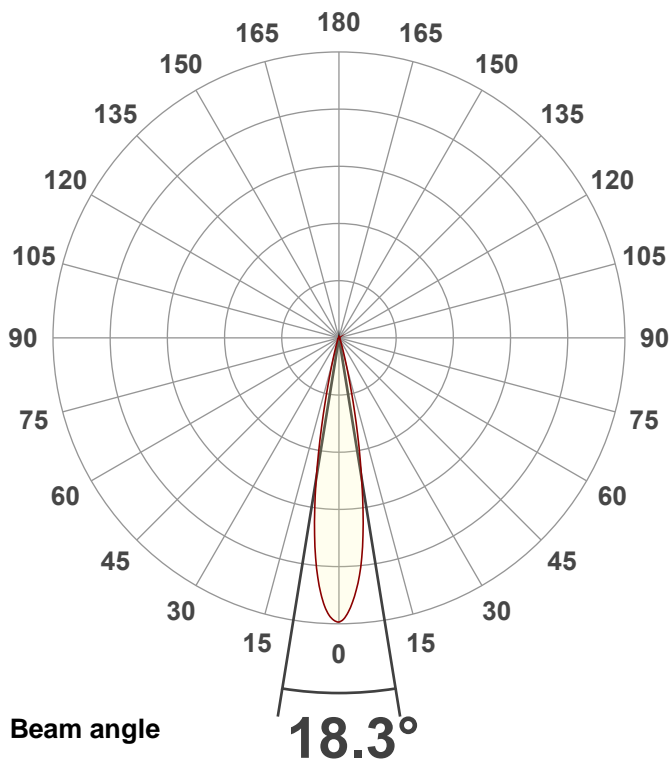
2700K

Date and time:

7/11/2024 10:36:34 AM

Description:

@ 25

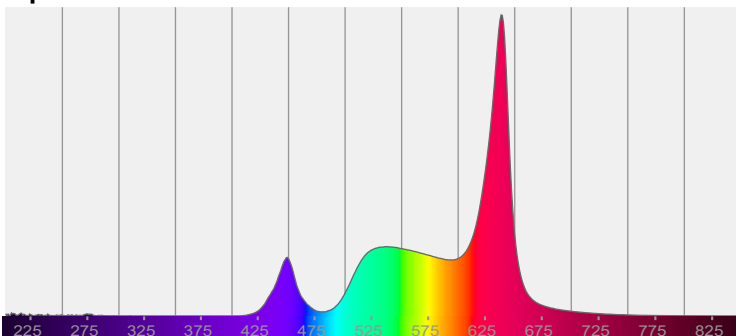


CIE 1931

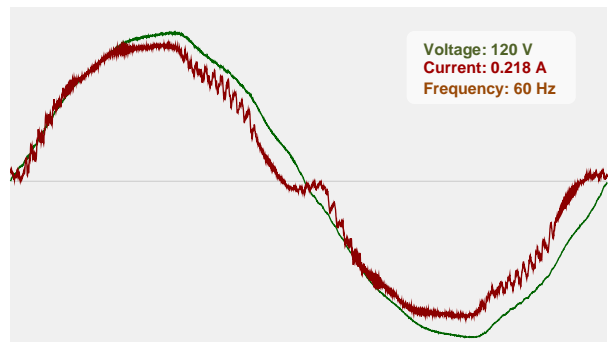
x: 0.456

y: 0.399

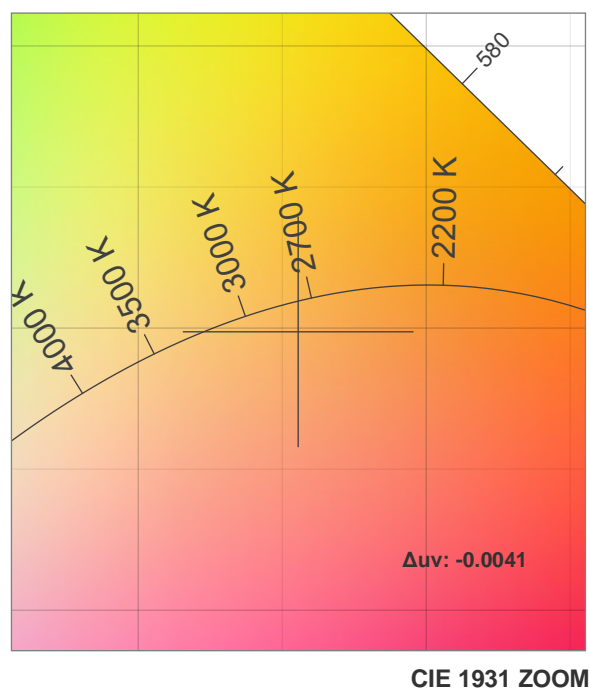
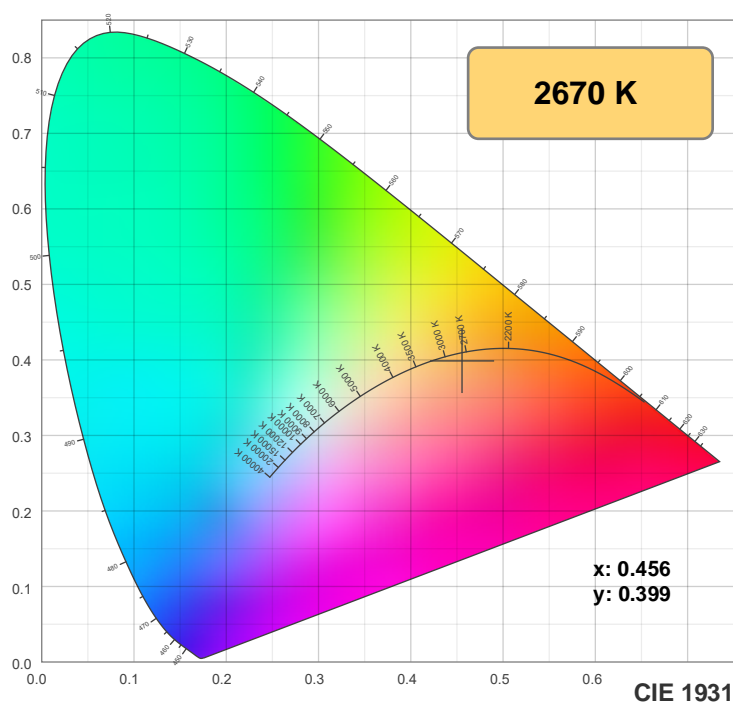
Spectra



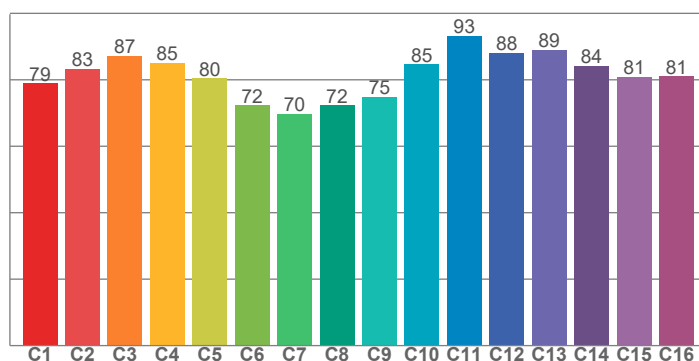
Power



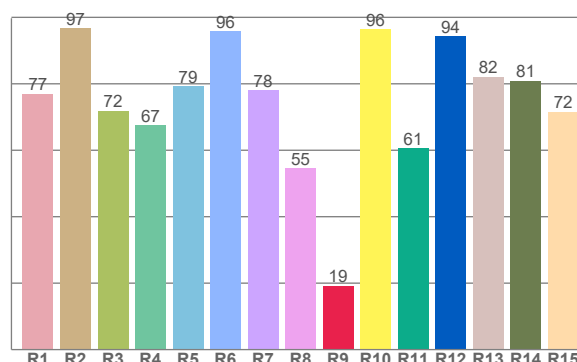
Color details



TM-30: 82.1



CRI: 77.6 (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
77.0	96.8	71.9	67.4	79.3	95.8	78.0	54.6	19.2	96.5	60.5	94.3	82.1	80.9	71.6

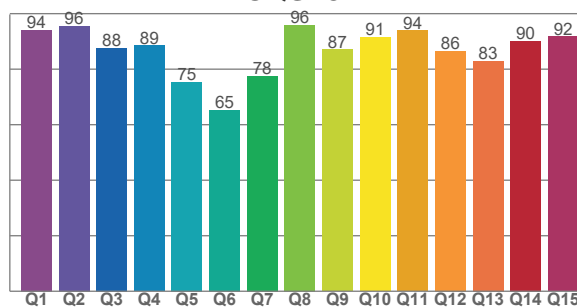
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
78.9	83.3	87.2	85.1	80.4	72.3	69.8	72.4	74.9	84.7	93.2	88.1	89.0	84.2	80.9	81.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94.0	95.6	87.6	88.5	75.3	65.3	77.5	96.0	87.0	91.5	94.0	86.5	83.0	90.1	91.8

CQS: 84.1



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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
2670 K	77.6	19.2	82.1	117.7	84.1	0.456	0.399	0.265	0.348	-0.0041

TM-30 details

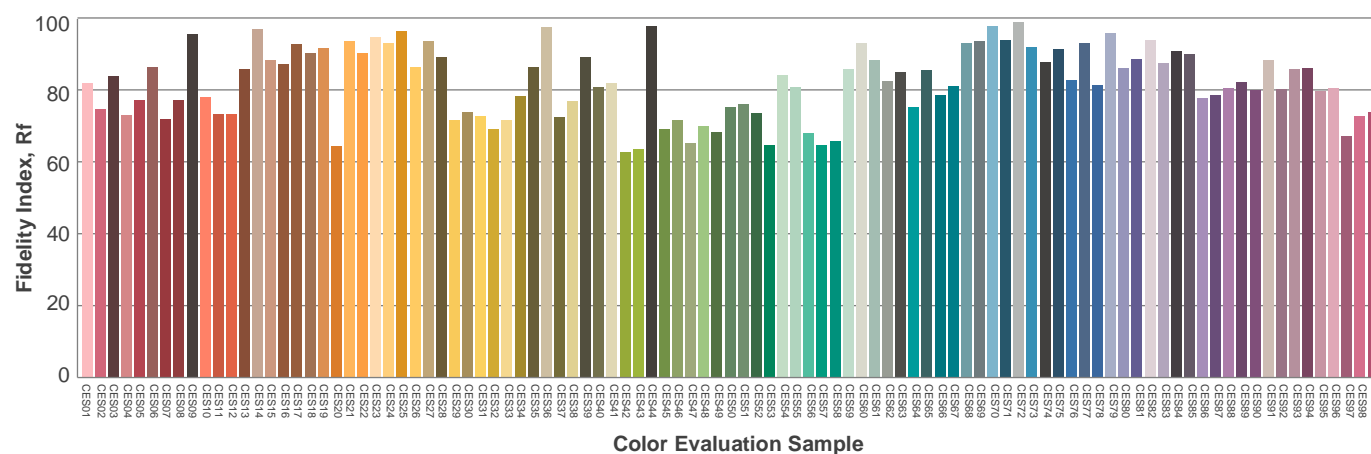
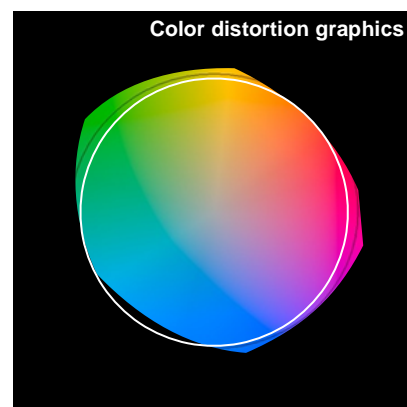
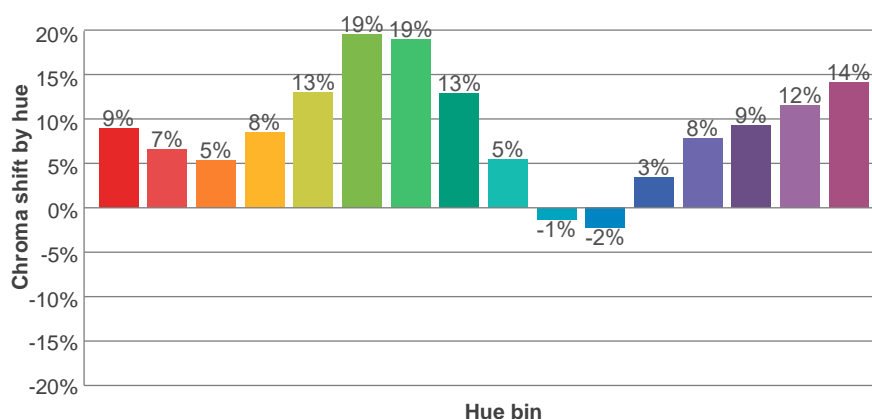
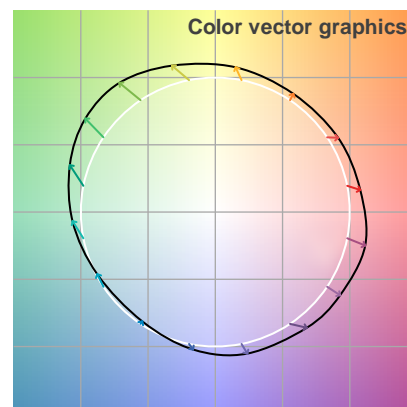
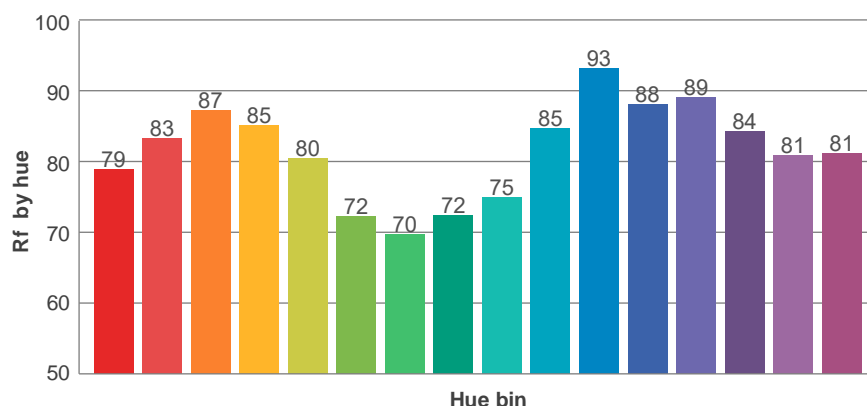
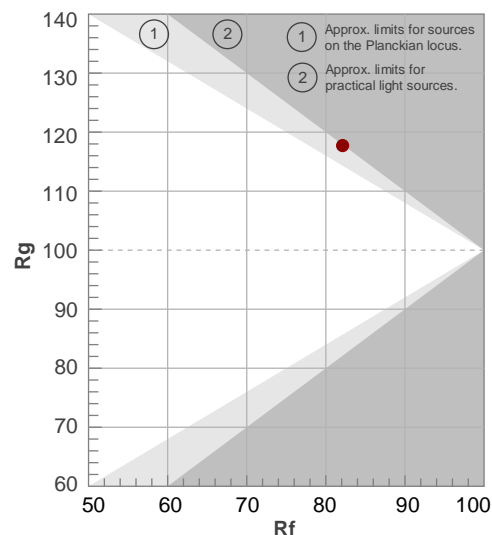
Rf 82.1

Fidelity index Rf

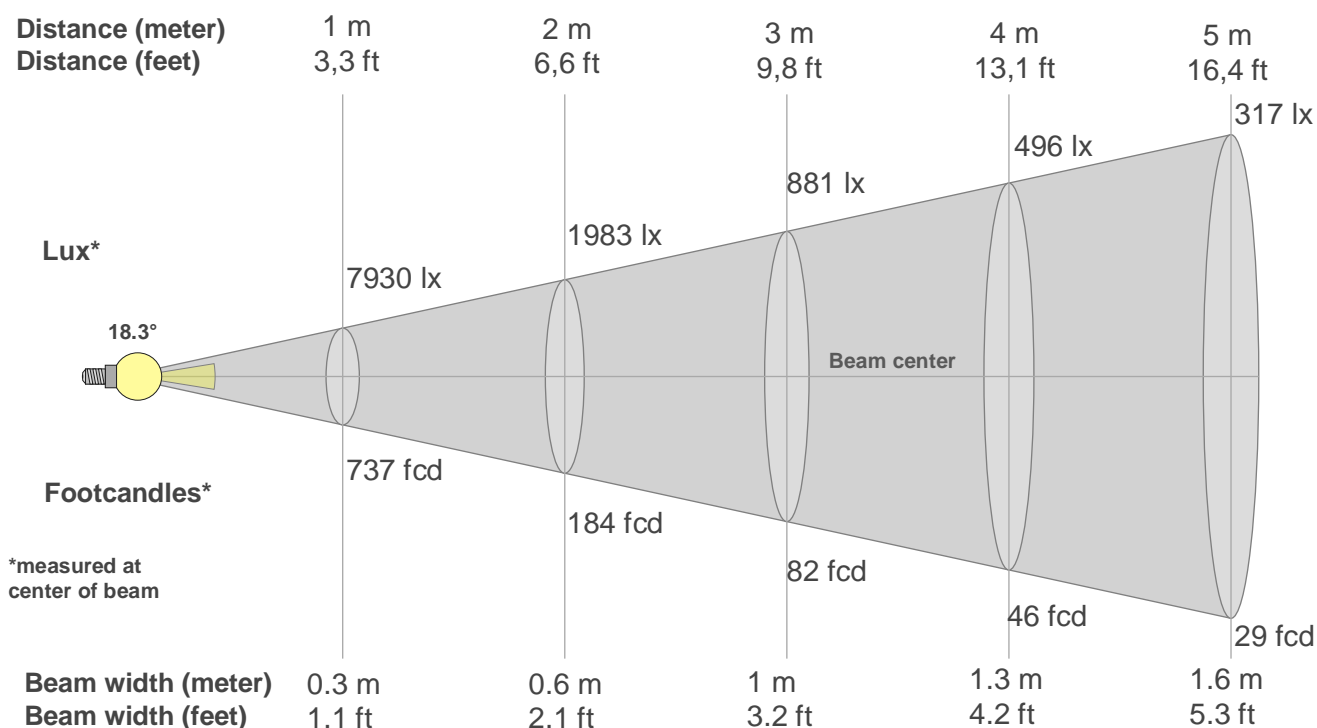
Rg 117.7

Gamut index Rg

Hue Bin	Ri	Shifts (%)	
		Chroma	Hue
1	79	9%	-5%
2	83	7%	-5%
3	87	5%	1%
4	85	8%	6%
5	80	13%	10%
6	72	19%	6%
7	70	19%	-4%
8	72	13%	-13%
9	75	5%	-14%
10	85	-1%	-10%
11	93	-2%	0%
12	88	3%	4%
13	89	8%	3%
14	84	9%	9%
15	81	12%	0%
16	81	14%	-3%



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
7930lx	1983lx	881lx	496lx	317lx	220lx	162lx	124lx	98lx	79lx	66lx	55lx	47lx	40lx	35lx	31lx	27lx	24lx	22lx	20lx
736.7fcd	184.2fcd	81.9fcd	46fcd	29.5fcd	20.5fcd	15fcd	11.5fcd	9.1fcd	7.4fcd	6.1fcd	5.1fcd	4.4fcd	3.8fcd	3.3fcd	2.9fcd	2.5fcd	2.3fcd	2fcd	1.8fcd

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°
7930	7845	7647	7369	7028	6626	6124	5513	4825	4090	3385	2709	2086	1557	1142	839	628	479	378	305
100%	99%	96%	93%	89%	84%	77%	70%	61%	52%	43%	34%	26%	20%	14%	11%	8%	6%	5%	4%

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°
7930	7845	7647	7369	7028	6626	6124	5513	4825	4090	3385	2709	2086	1557	1142	839	628	479	378	305
100%	99%	96%	93%	89%	84%	77%	70%	61%	52%	43%	34%	26%	20%	14%	11%	8%	6%	5%	4%

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°
7930	7887	7754	7517	7173	6736	6204	5574	4862	4102	3318	2557	1894	1368	982	715	532	410	326	265
100%	99%	98%	95%	90%	85%	78%	70%	61%	52%	42%	32%	24%	17%	12%	9%	7%	5%	4%	3%

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°
7930	7887	7754	7517	7173	6736	6204	5574	4862	4102	3318	2557	1894	1368	982	715	532	410	326	265
100%	99%	98%	95%	90%	85%	78%	70%	61%	52%	42%	32%	24%	17%	12%	9%	7%	5%	4%	3%

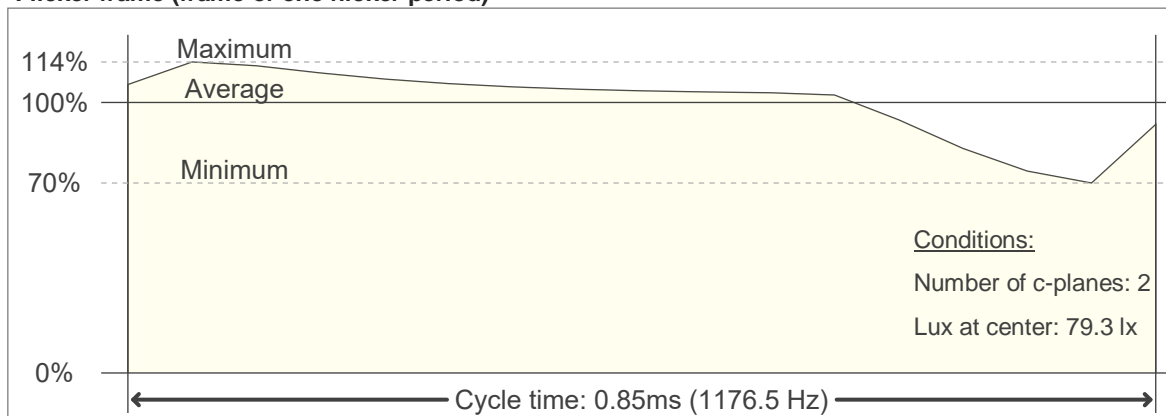
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18.3°	29.9°	42.4°	97.1%	92.2%

Flicker

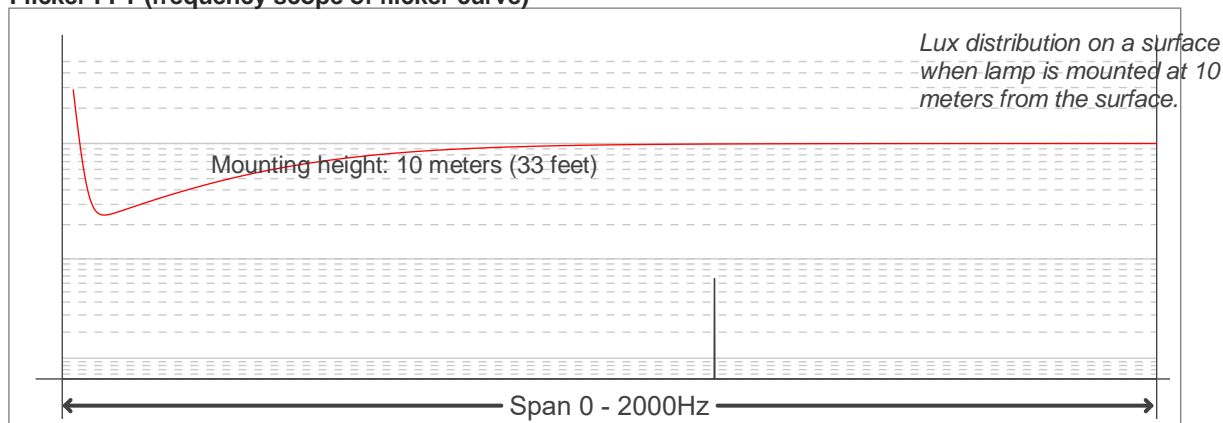
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:		1176.47 Hz	
Flicker index:	0.05	JA8/10 40Hz	0.07 %
Flicker percentage:	24.63 %	JA8/10 90Hz	0.15 %
SVM: (Visual flicker)	0.13	JA8/10 200Hz	0.3 %
PstLM	0.04	JA8/10 400Hz	0.59 %
Mp	0.03	JA8/10 1000Hz	2.55 %

Flicker conditions:

Sample rate:	20000 samples/second
--------------	----------------------