

Light efficiency:



Light quality:



Color temperature:

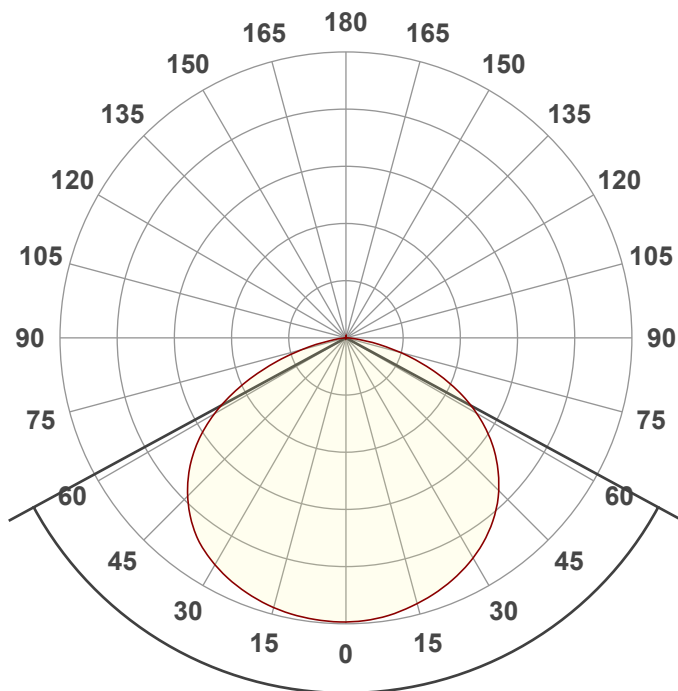


Output: 4798 lm

Peak: 1526 cd

Power: 121 W

PF: 0.99



Tracking number: [n/a](#)

Product name:

**JoltBar FXIP**

Item number:

**4000K**

Date and time:

**4/17/2024 1:23:15 PM**

Description:

Beam angle 123°

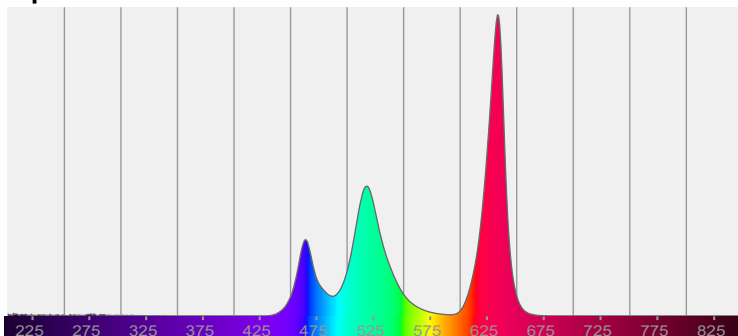


CIE 1931

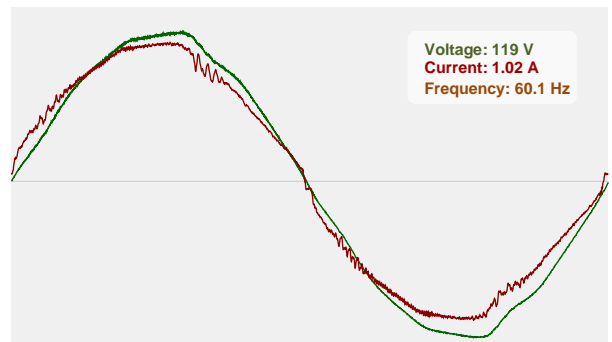
x: 0.383

y: 0.385

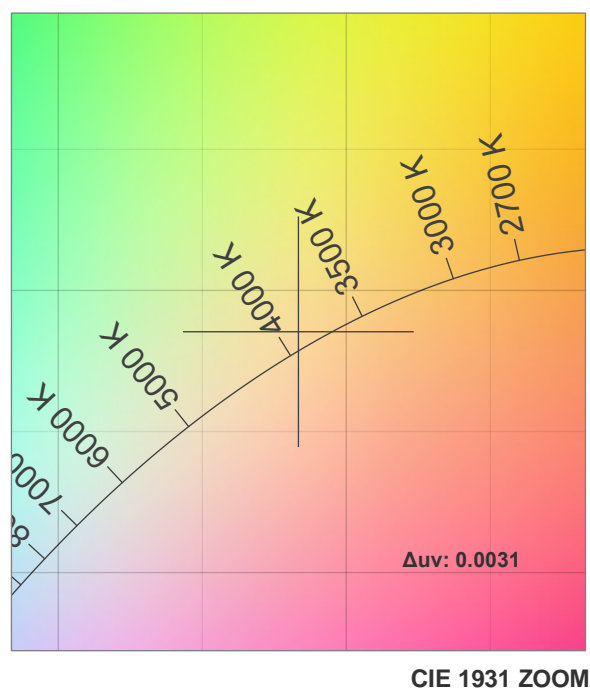
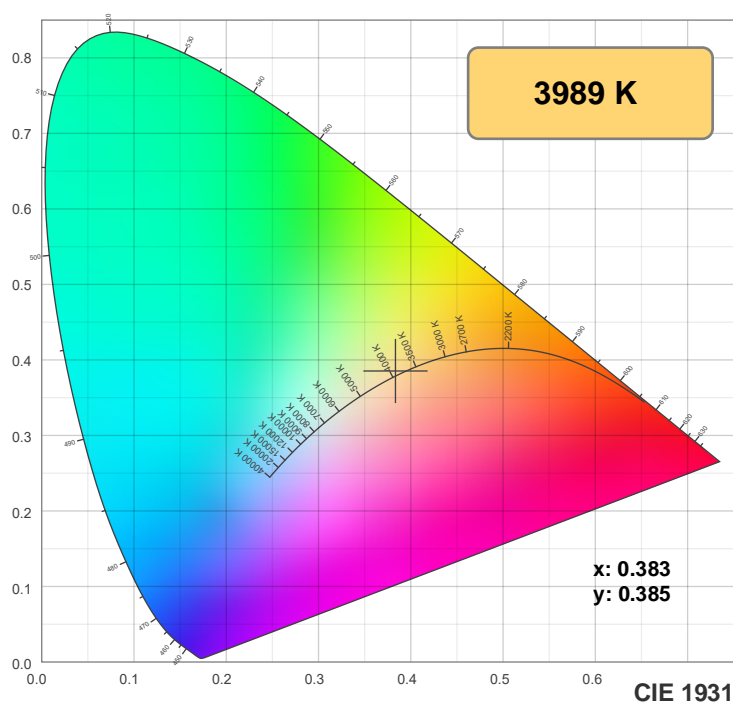
Spectra



Power

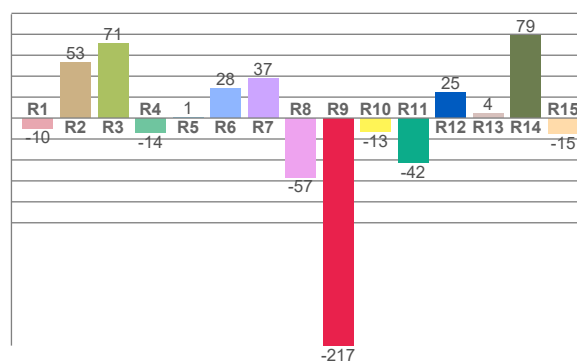
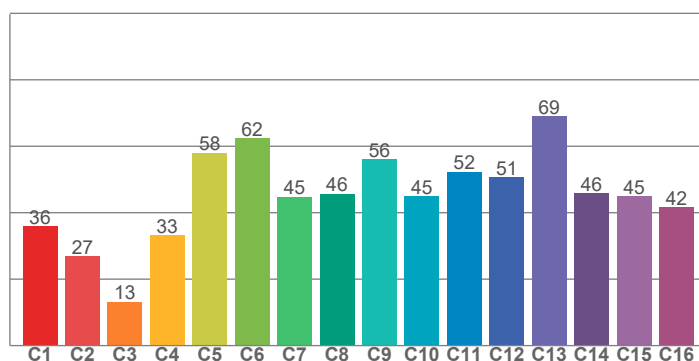


## Color details



**TM-30: 45.0**

**CRI: 13.8 (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
-9.6	53.2	71.4	-13.9	0.6	28.3	37.5	-56.6	-217.3	-13.1	-42.5	24.5	4.2	78.8	-15.0

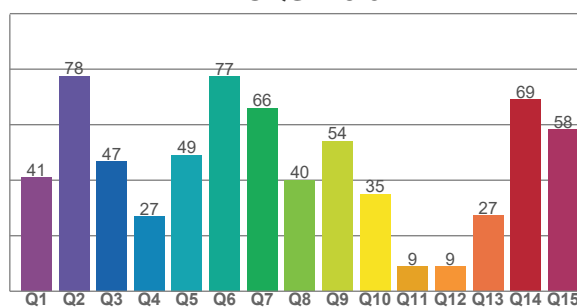
**TM30 C values, 16 binned values out of total of 99 C values**

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
35.9	26.8	13.1	33.1	58.0	62.4	44.8	45.6	56.0	45.0	52.3	50.6	69.1	45.8	44.9	41.6

**CQS Q values**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
41.0	77.5	46.7	26.9	49.0	77.4	66.1	40.0	54.0	35.0	8.9	8.9	27.2	69.0	58.2

**CQS: 40.6**



### 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
3989 K	13.8	-217.3	45.0	108.6	40.6	0.383	0.385	0.224	0.337	0.0031

# TM-30 details

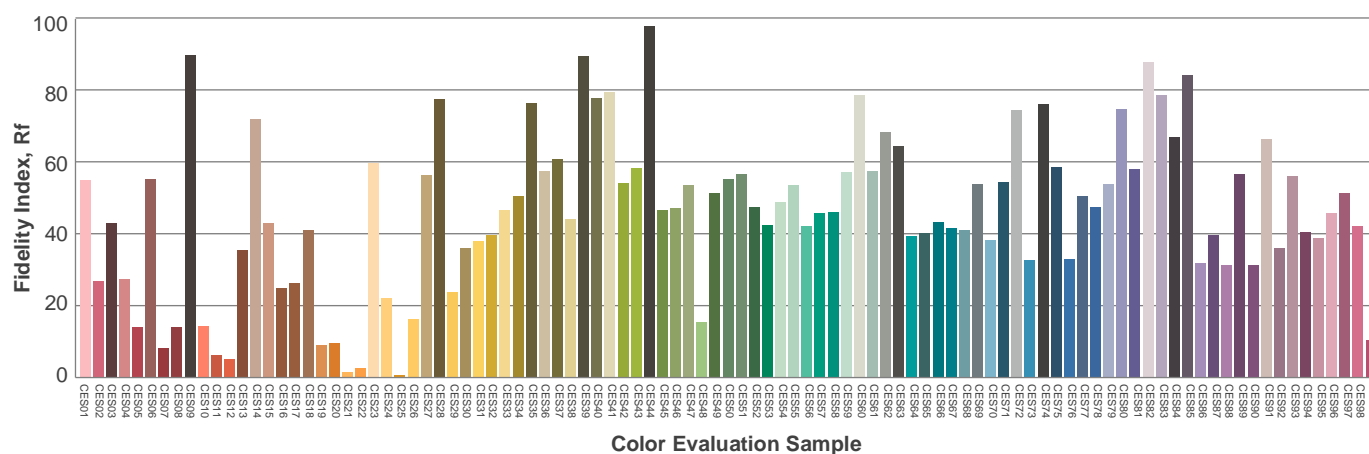
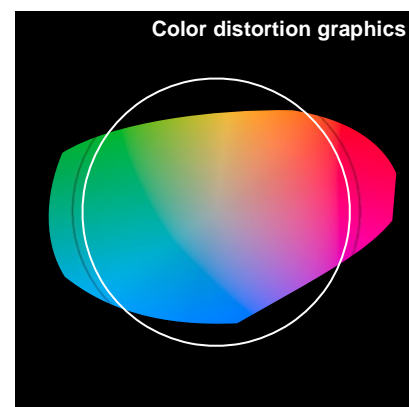
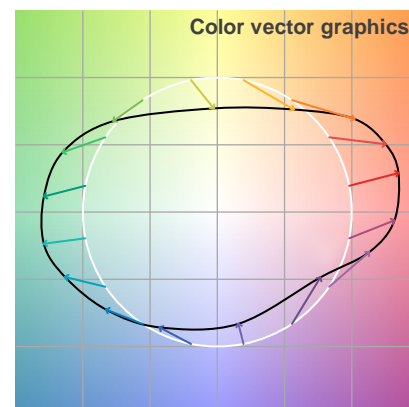
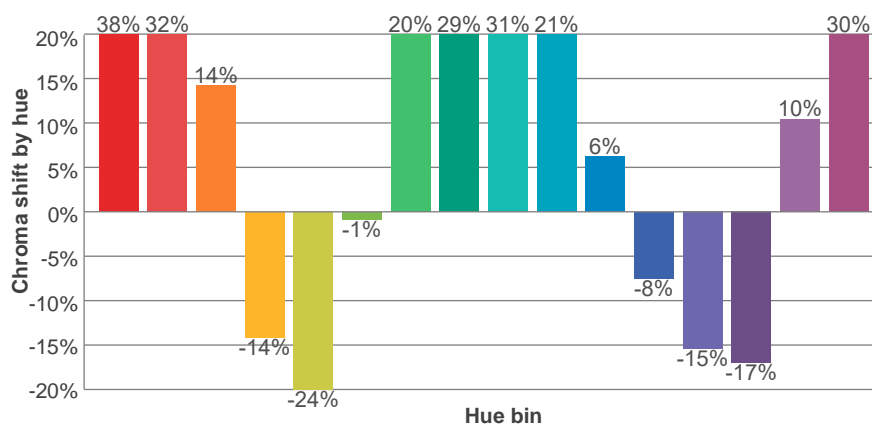
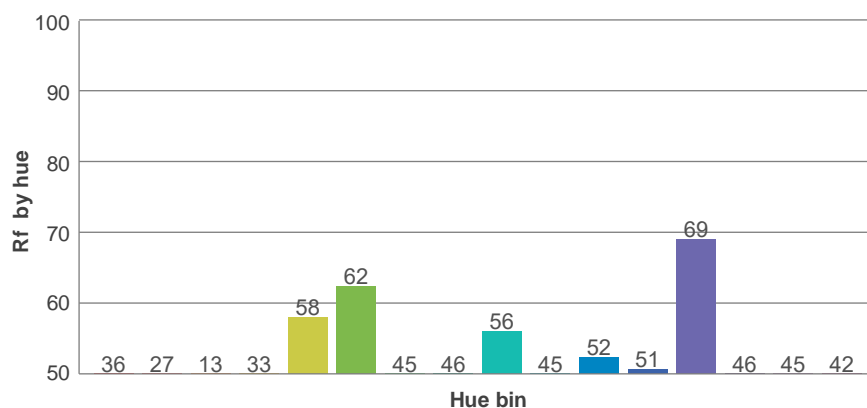
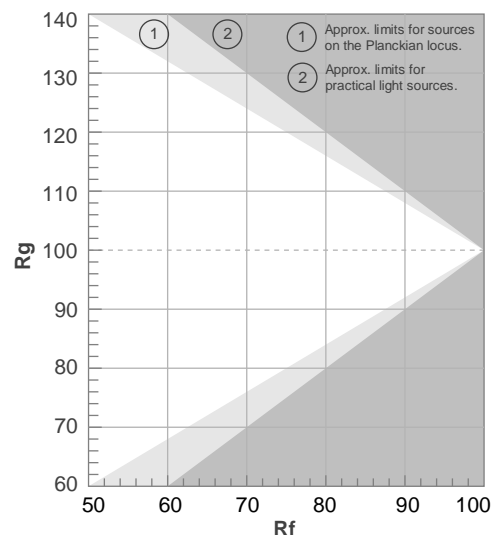
**Rf 45.0**

Fidelity index Rf

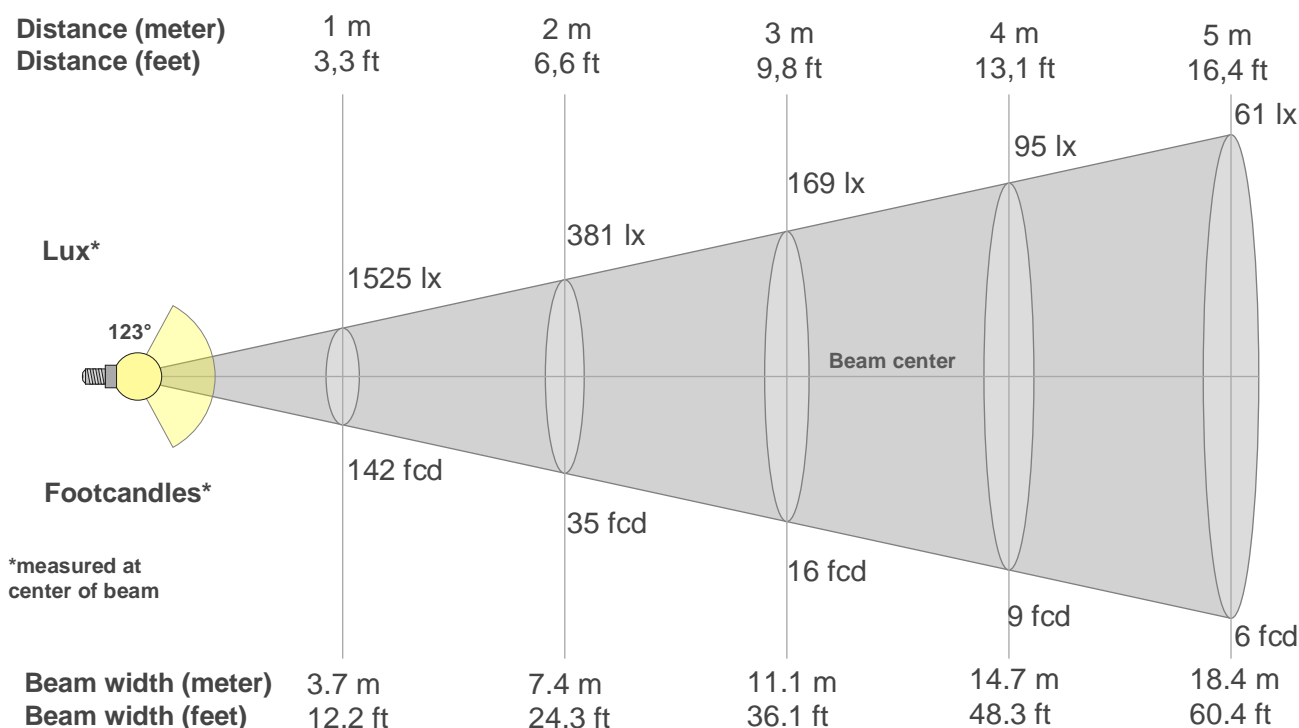
**Rg 108.6**

Gamut index Rg

Hue Bin	Ri	Shifts (%)	
		Chroma	Hue
1	36	38%	2%
2	27	32%	-28%
3	13	14%	-46%
4	33	-14%	-41%
5	58	-24%	-12%
6	62	-1%	27%
7	45	20%	27%
8	46	29%	14%
9	56	31%	-2%
10	45	21%	-23%
11	52	6%	-29%
12	51	-8%	-25%
13	69	-15%	-1%
14	46	-17%	37%
15	45	10%	38%
16	42	30%	20%



## 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
1525lx	381lx	169lx	95lx	61lx	42lx	31lx	24lx	19lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx
141.7fcd	35.4fcd	15.7fcd	8.9fcd	5.7fcd	3.9fcd	2.9fcd	2.2fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.4fcd

### Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
1525	1519	1503	1477	1447	1410	1364	1309	1241	1159	1060	945	809	653	480	306	150	43	2	0
100%	100%	99%	97%	95%	92%	89%	86%	81%	76%	69%	62%	53%	43%	31%	20%	10%	3%	0%	0%

### Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
1525	1519	1503	1477	1447	1410	1364	1309	1241	1159	1060	945	809	653	480	306	150	43	2	0
100%	100%	99%	97%	95%	92%	89%	86%	81%	76%	69%	62%	53%	43%	31%	20%	10%	3%	0%	0%

### Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
1525	1523	1515	1499	1476	1446	1406	1357	1288	1201	1095	968	813	633	438	251	99	17	1	0
100%	100%	99%	98%	97%	95%	92%	89%	84%	79%	72%	63%	53%	41%	29%	16%	6%	1%	0%	0%

### Intensities in 270° c-plane

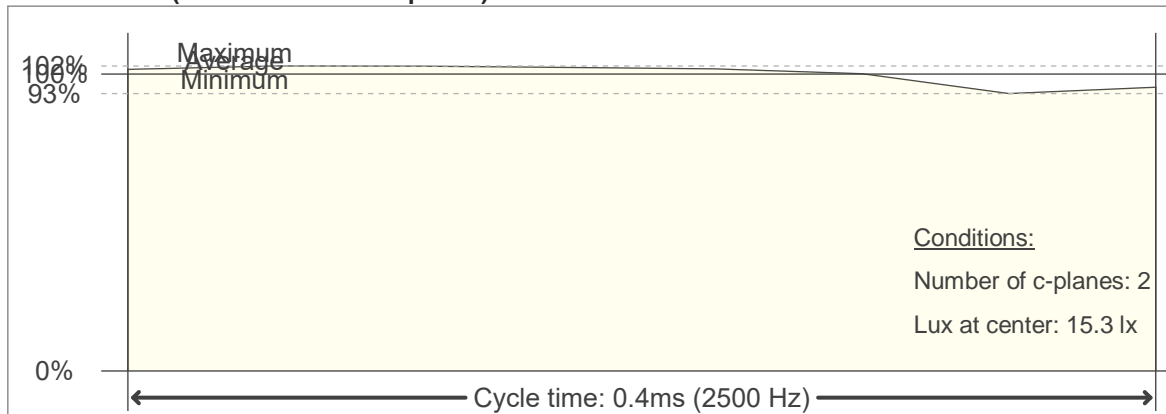
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
1525	1523	1515	1499	1476	1446	1406	1357	1288	1201	1095	968	813	633	438	251	99	17	1	0
100%	100%	99%	98%	97%	95%	92%	89%	84%	79%	72%	63%	53%	41%	29%	16%	6%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
123°	158°	168.7°	79.7%	52.4%

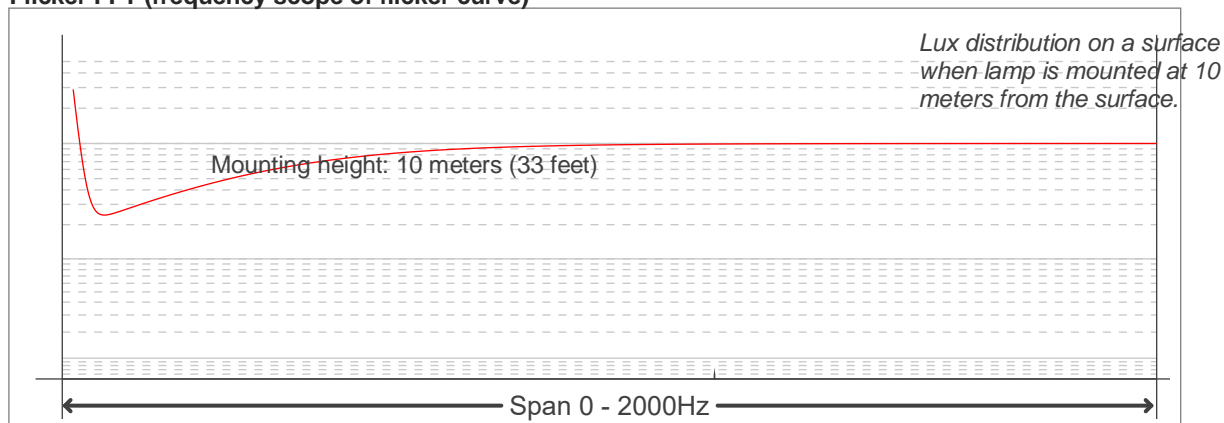
## Flicker

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

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



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



**Flicker results:**

Flicker frequency:		2500 Hz	
Flicker index:	0.01	JA8/10 40Hz	0.01 %
Flicker percentage:	8.4 %	JA8/10 90Hz	0.02 %
SVM: (Visual flicker)	0.01	JA8/10 200Hz	0.05 %
PstLM	0.97	JA8/10 400Hz	0.11 %
Mp	0	JA8/10 1000Hz	0.72 %

**Flicker conditions:**

Sample rate:	20000 samples/second
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