

Light efficiency:

39 Lumen/Watt

Light quality:

CRI: 81.7

Color temperature:

5567 K

Output: 1027 lm

Peak: 7621 cd

Power: 26.2 W

PF: 0.98



Tracking number: [n/a](#)

Product name:

**Dotz Par RGBL**

Item number:

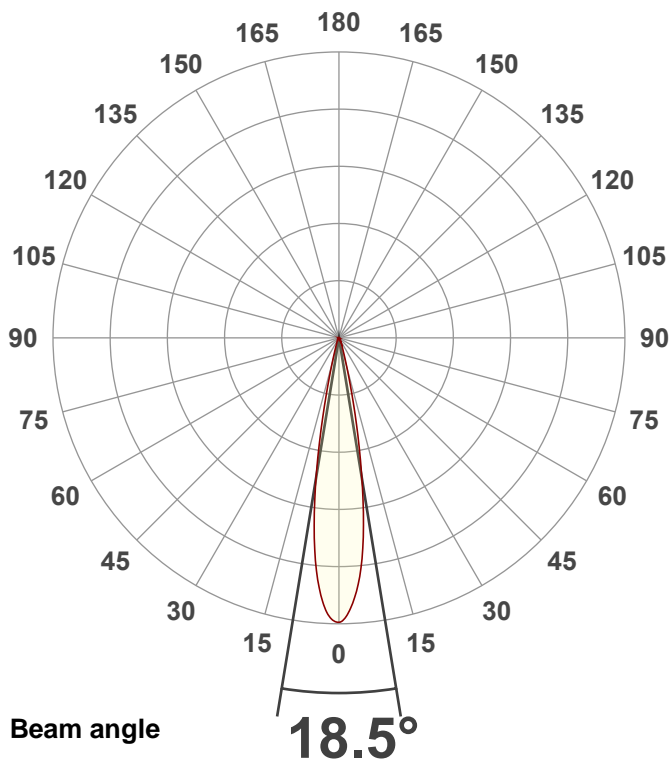
**5600K**

Date and time:

**7/11/2024 11:35:47 AM**

Description:

**@ 188**

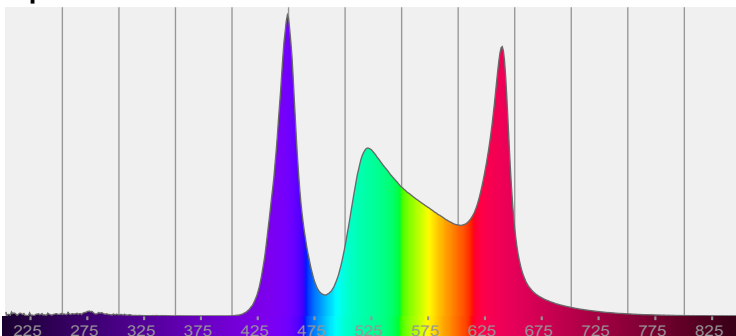


CIE 1931

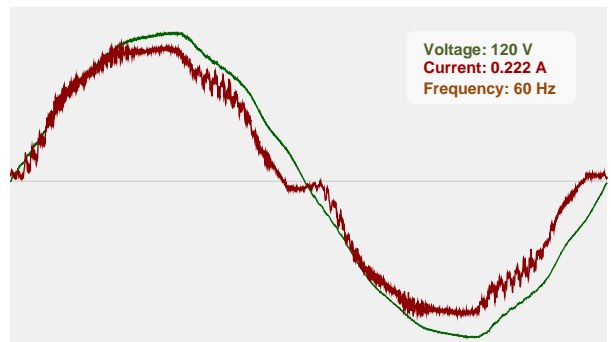
x: 0.331

y: 0.333

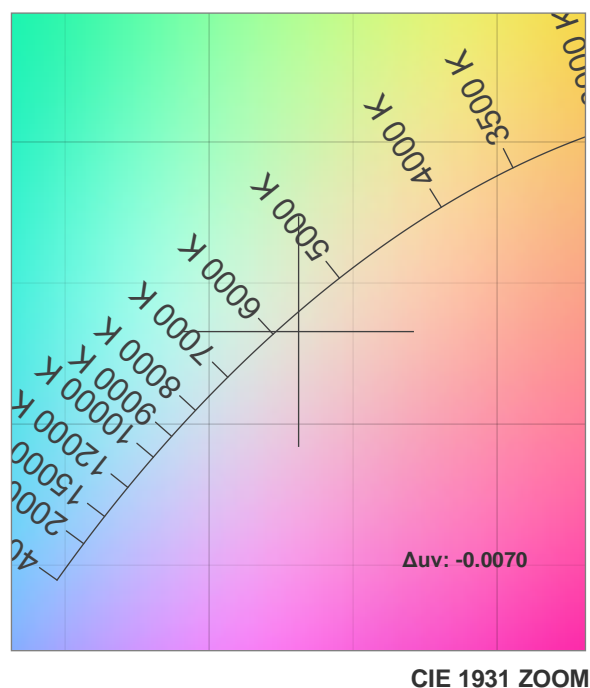
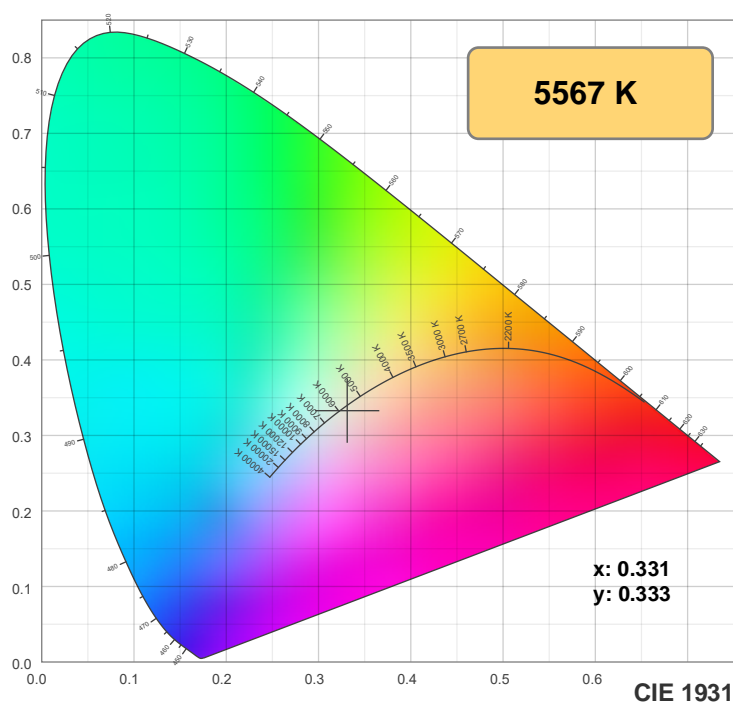
Spectra



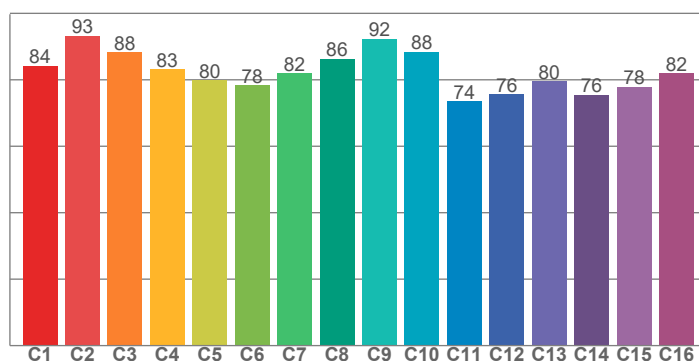
Power



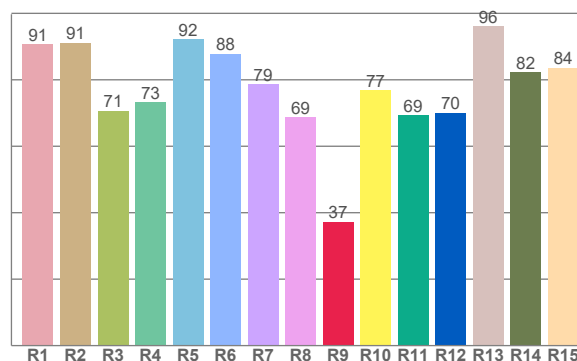
## Color details



**TM-30: 82.7**



**CRI: 81.7 (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
90.8	91.1	70.7	73.2	92.2	87.9	78.7	68.7	37.3	76.9	69.4	70.1	96.2	82.3	83.6

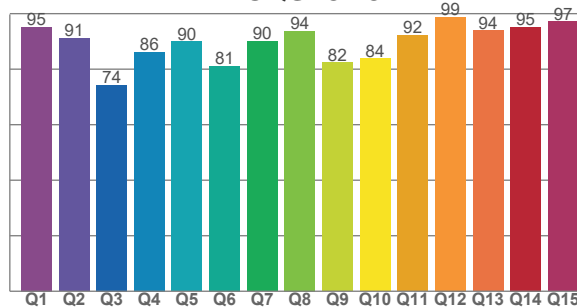
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
84.2	93.3	88.3	83.2	79.8	78.3	82.0	86.3	92.3	88.5	73.5	75.6	79.6	75.5	77.9	81.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95.1	91.1	74.3	86.3	90.0	81.2	90.0	93.8	82.3	83.8	92.2	98.8	93.9	95.2	97.1

**CQS: 87.8**



### 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
5567 K	81.7	37.3	82.7	112.6	87.8	0.331	0.333	0.209	0.315	-0.0070

## TM-30 details

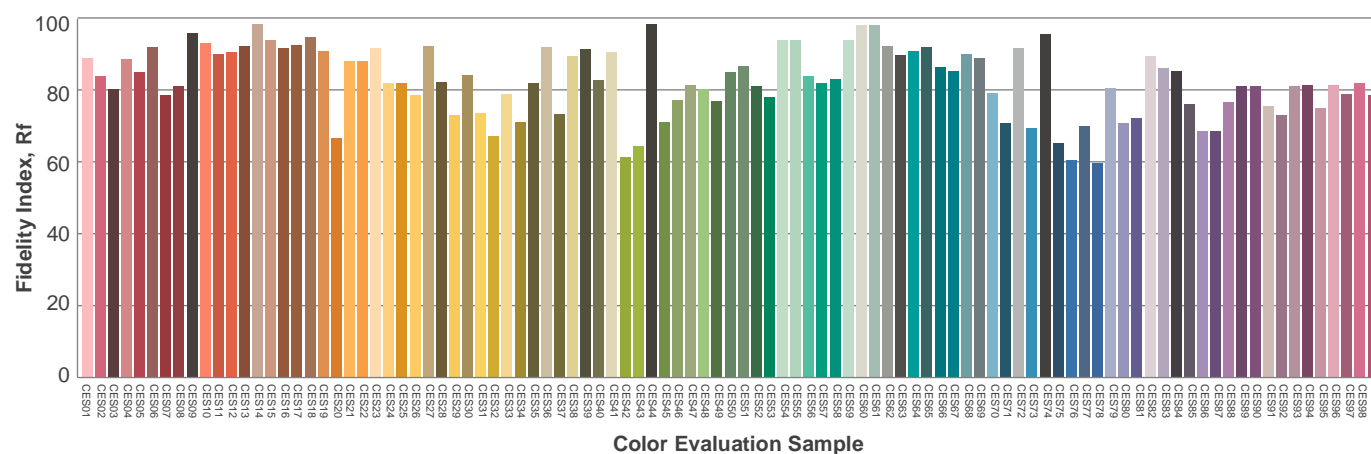
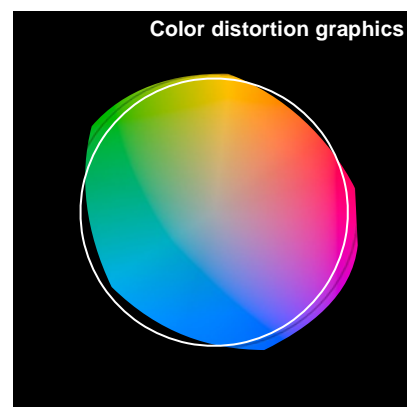
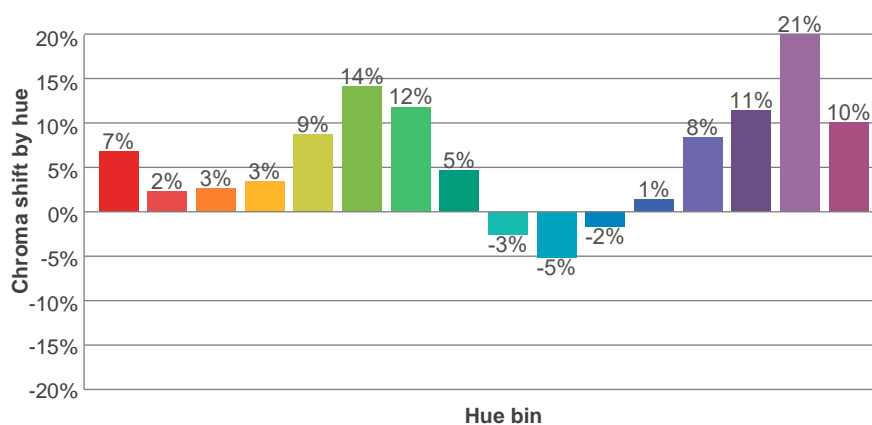
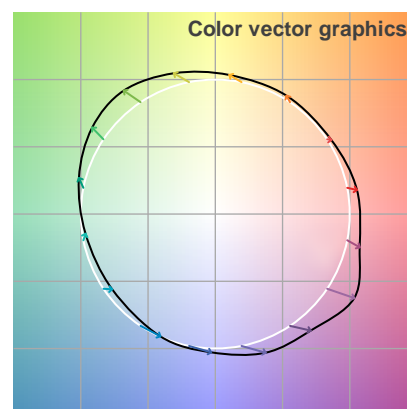
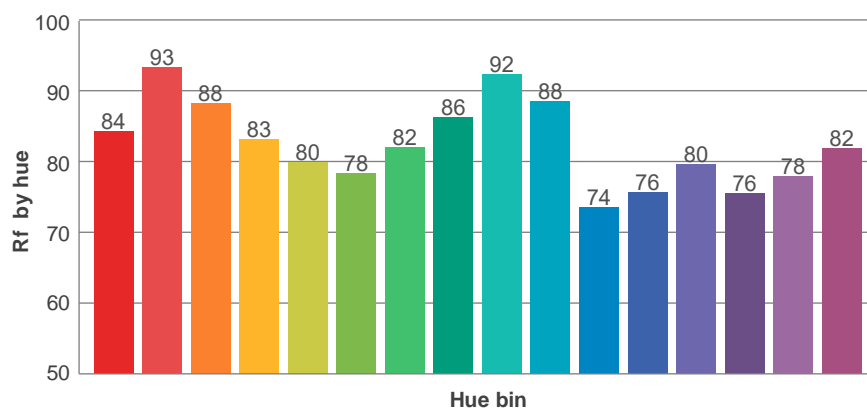
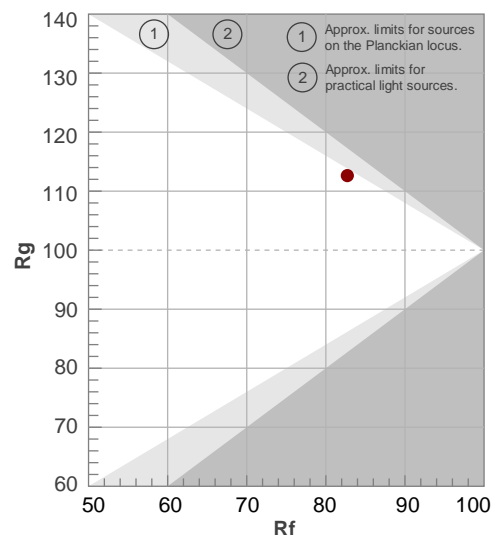
**Rf 82.7**

Fidelity index Rf

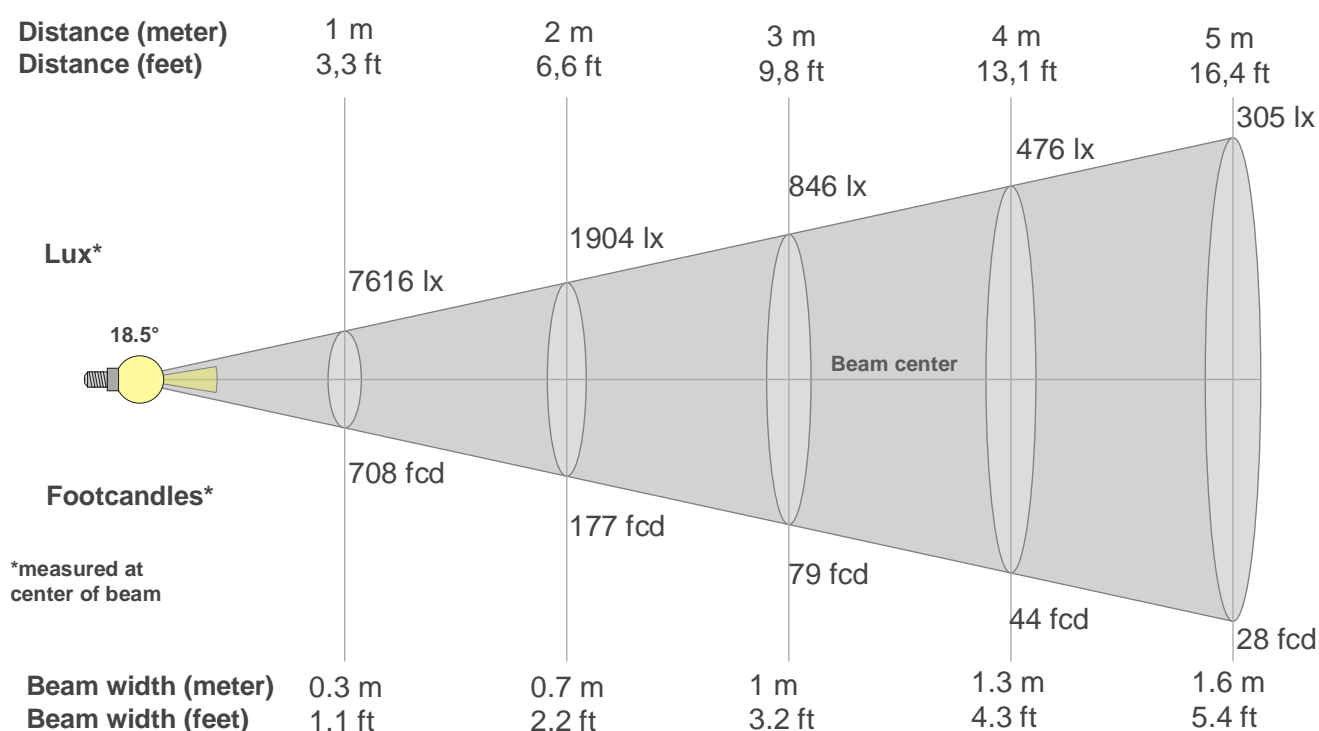
**Rg 112.6**

Gamut index Rg

Hue Bin	R <sub>i</sub>	Shifts (%)	
		Chroma	Hue
1	84	7%	-3%
2	93	2%	-2%
3	88	3%	5%
4	83	3%	10%
5	80	9%	10%
6	78	14%	6%
7	82	12%	-3%
8	86	5%	-7%
9	92	-3%	-4%
10	88	-5%	4%
11	74	-2%	17%
12	76	1%	17%
13	80	8%	17%
14	76	11%	11%
15	78	21%	5%
16	82	10%	-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
7616lx	1904lx	846lx	476lx	305lx	212lx	155lx	119lx	94lx	76lx	63lx	53lx	45lx	39lx	34lx	30lx	26lx	24lx	21lx	19lx
707.5fcd	176.9fcd	78.6fcd	44.2fcd	28.3fcd	19.7fcd	14.4fcd	11.1fcd	8.7fcd	7.1fcd	5.8fcd	4.9fcd	4.2fcd	3.6fcd	3.1fcd	2.8fcd	2.4fcd	2.2fcd	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°
7616	7541	7361	7105	6789	6400	5921	5348	4698	4004	3313	2659	2059	1541	1136	838	629	485	382	312
100%	99%	97%	93%	89%	84%	78%	70%	62%	53%	43%	35%	27%	20%	15%	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°
7616	7541	7361	7105	6789	6400	5921	5348	4698	4004	3313	2659	2059	1541	1136	838	629	485	382	312
100%	99%	97%	93%	89%	84%	78%	70%	62%	53%	43%	35%	27%	20%	15%	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°
7616	7584	7462	7238	6915	6507	6006	5409	4736	4013	3266	2538	1892	1375	991	722	540	417	332	272
100%	100%	98%	95%	91%	85%	79%	71%	62%	53%	43%	33%	25%	18%	13%	9%	7%	5%	4%	4%

### Intensities in 270° c-plane

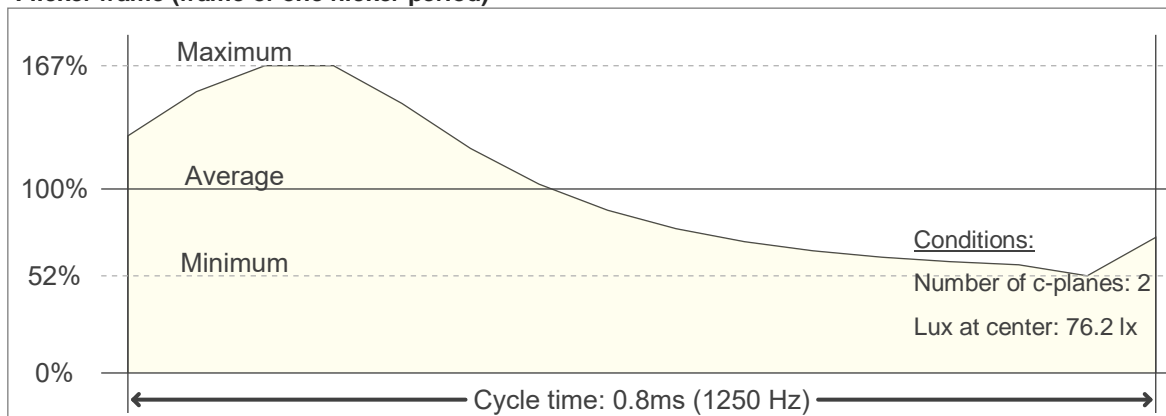
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7616	7584	7462	7238	6915	6507	6006	5409	4736	4013	3266	2538	1892	1375	991	722	540	417	332	272
100%	100%	98%	95%	91%	85%	79%	71%	62%	53%	43%	33%	25%	18%	13%	9%	7%	5%	4%	4%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18.5°	30.1°	43.3°	95.6%	89.7%

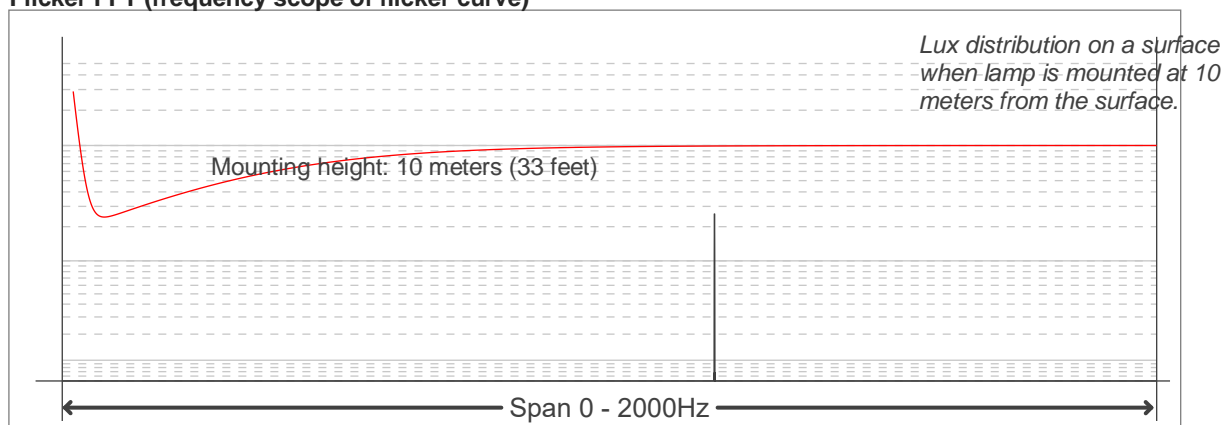
## Flicker

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

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



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



**Flicker results:**

Flicker frequency:		1250 Hz	
Flicker index:	0.18	JA8/10 40Hz	0.56 %
Flicker percentage:	52.57 %	JA8/10 90Hz	1.29 %
SVM: (Visual flicker)	0.52	JA8/10 200Hz	2.88 %
PstLM	0.04	JA8/10 400Hz	5.79 %
Mp	0.11	JA8/10 1000Hz	18.45 %

**Flicker conditions:**

Sample rate:	20000 samples/second
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