

#### Light efficiency:

57 Lumen/Watt

#### Light quality:

CRI: 95.7

#### Color temperature:

5754 K

Output: 18646 lm

Peak: 553001 cd

Power: 324.4 W

PF: 0.99



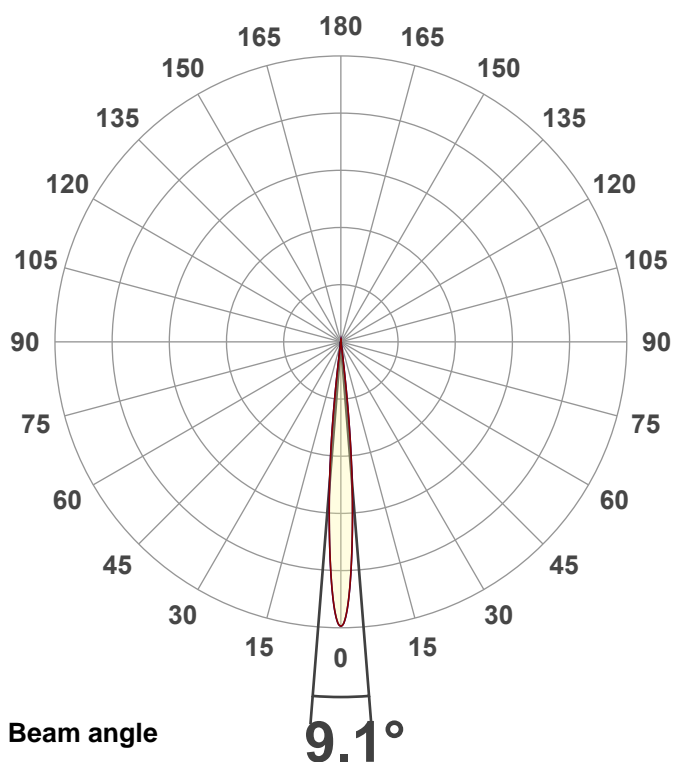
Product name:

PAR Z300 6K (Zoom 9°, Full On)

Item number:

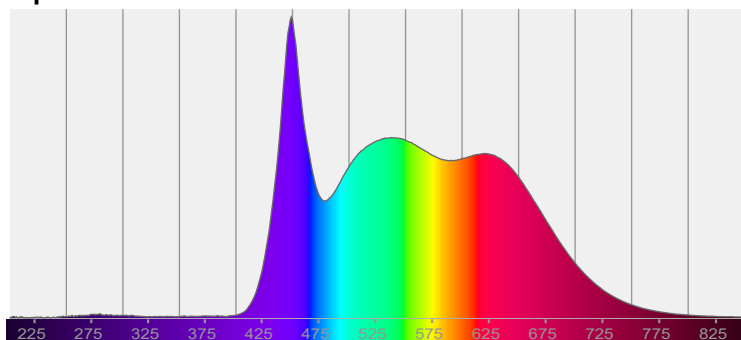
Date and time:

8/18/2025 9:56:32 AM

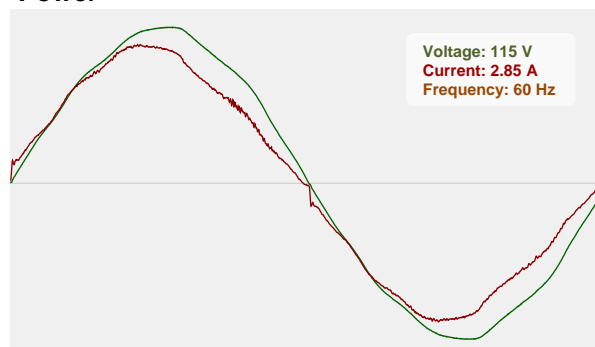


CIE 1931  
x: 0.327  
y: 0.335

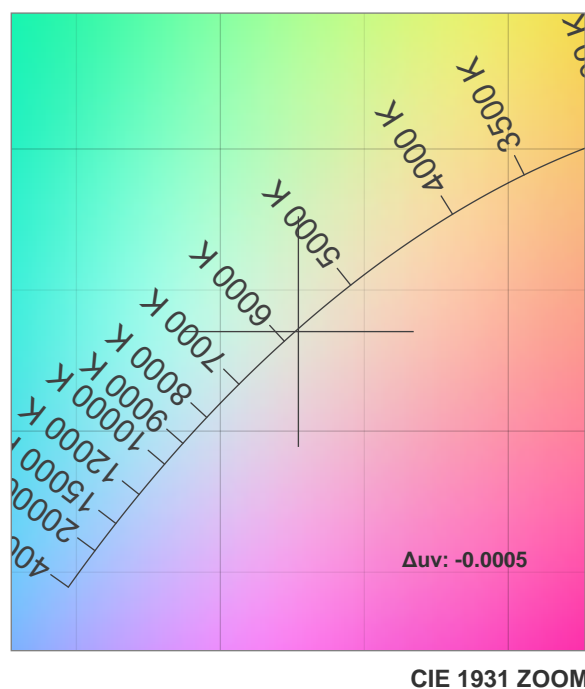
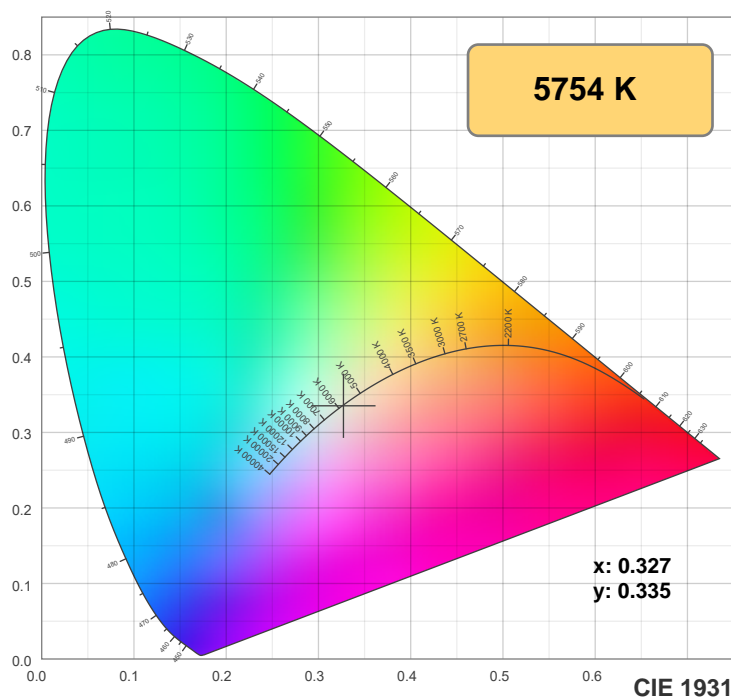
#### Spectra



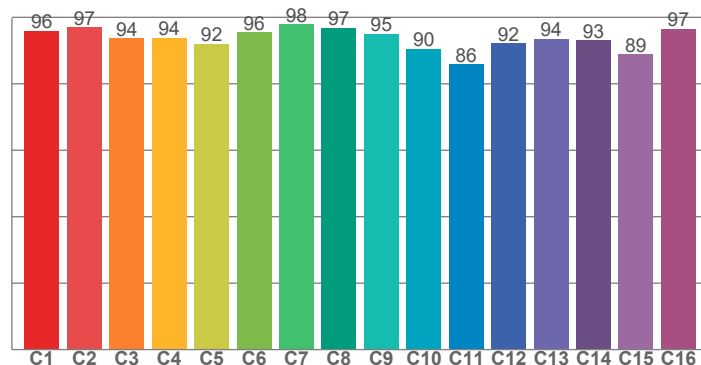
#### Power



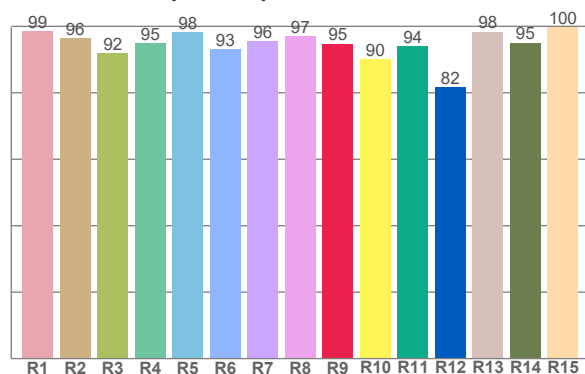
## Color details



### TM-30: 93.5



### CRI: 95.7 (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
98.6	96.4	91.8	95.0	98.3	93.2	95.6	97.0	94.8	90.0	94.0	81.8	98.4	95.1	99.7

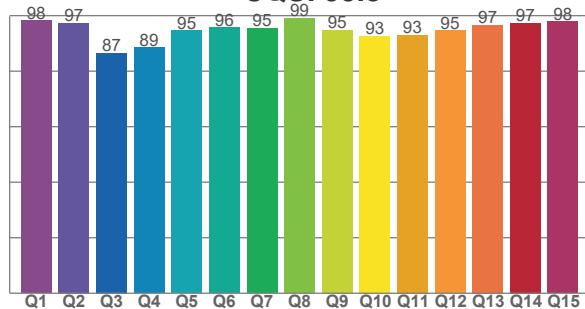
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95.9	97.0	93.6	93.8	92.0	95.5	97.9	96.8	95.0	90.5	85.8	92.1	93.6	93.1	88.8	96.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98.2	97.4	86.6	88.5	94.6	95.7	95.5	99.1	94.9	92.7	93.1	94.7	96.6	97.4	97.9

### CQS: 93.8



## 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	$\Delta uv$
5754 K	95.7	94.8	93.5	102.5	93.8	0.327	0.335	0.205	0.316	-0.0005

# TM-30 details

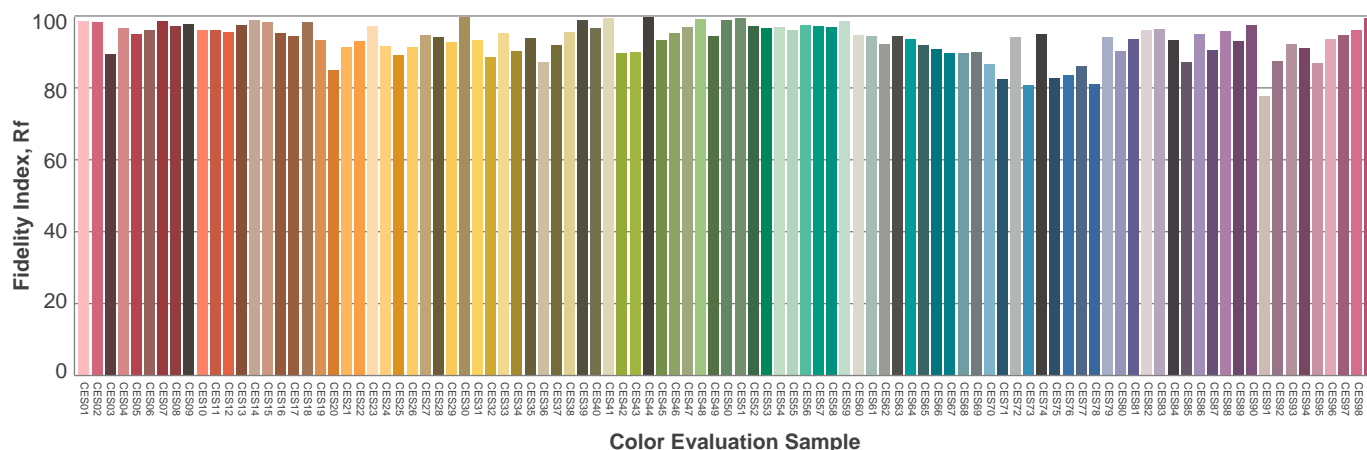
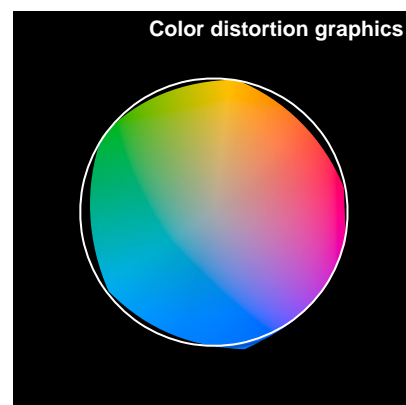
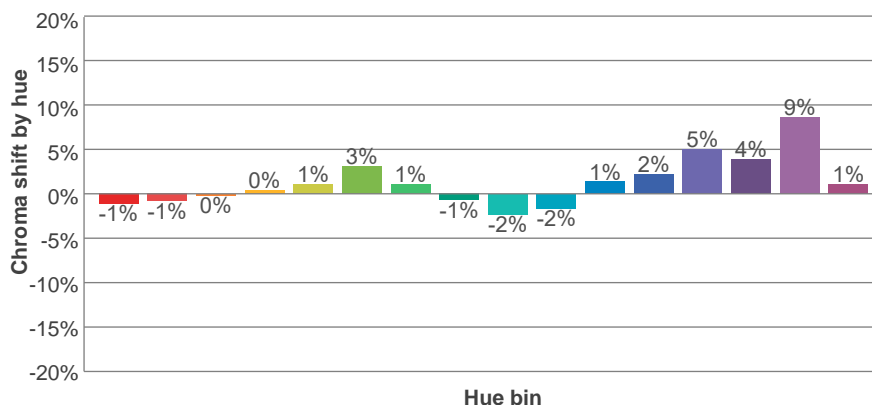
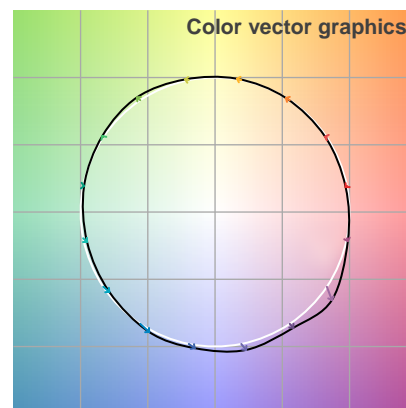
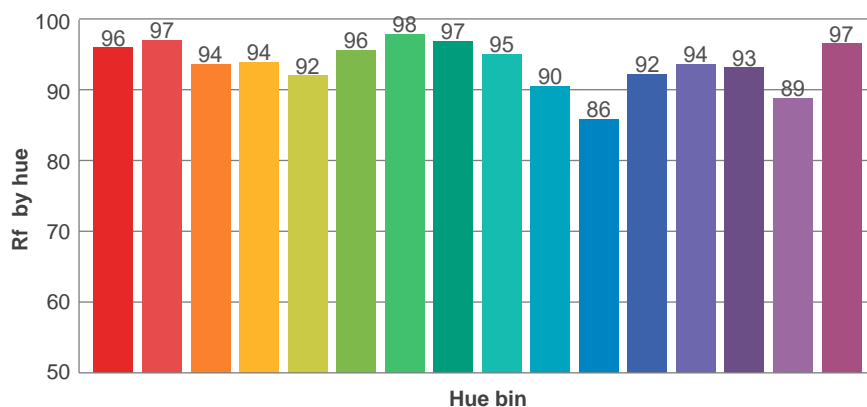
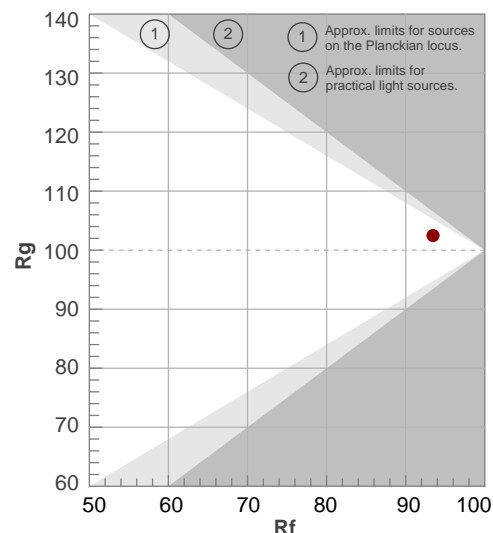
**Rf 93.5**

Fidelity index Rf

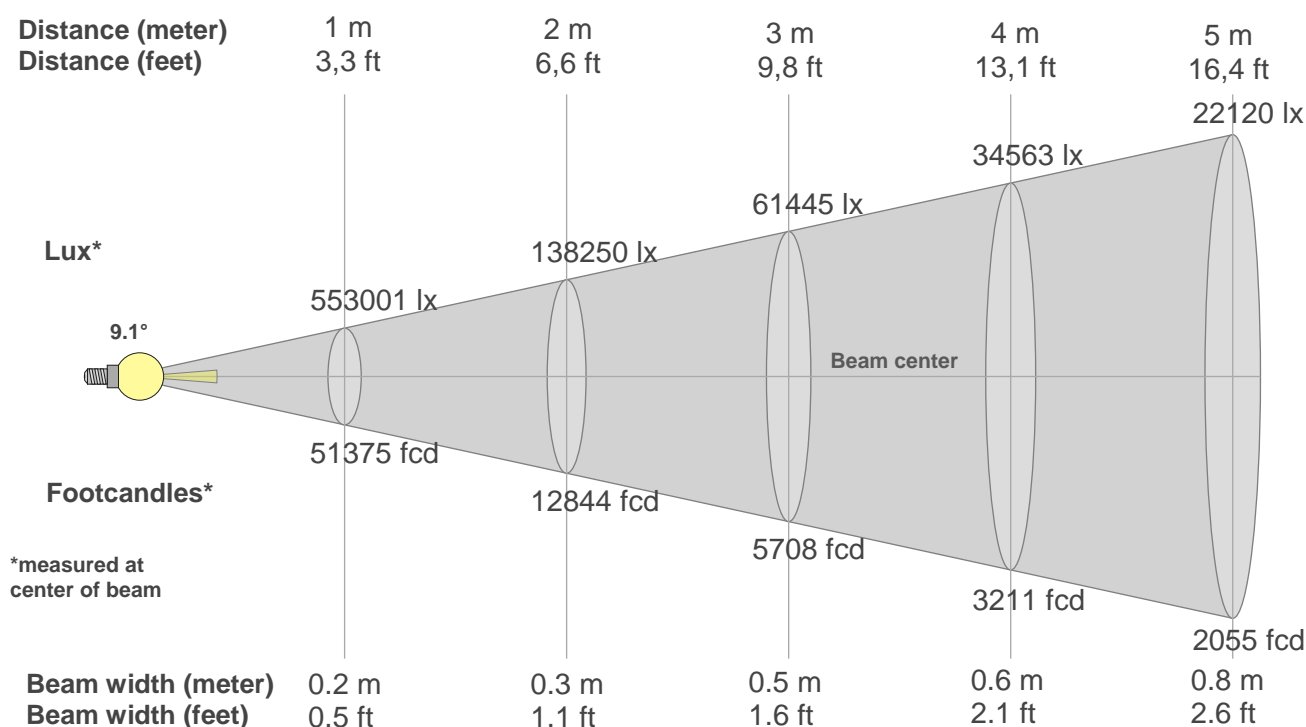
**Rg 102.5**

Gamut index Rg

Hue Bin	Ri	Shifts (%)	
		Chroma	Hue
1	96	-1%	-1%
2	97	-1%	1%
3	94	0%	3%
4	94	0%	3%
5	92	1%	3%
6	96	3%	1%
7	98	1%	-1%
8	97	-1%	0%
9	95	-2%	3%
10	90	-2%	6%
11	86	1%	9%
12	92	2%	5%
13	94	5%	3%
14	93	4%	1%
15	89	9%	-6%
16	97	1%	-2%



## 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
553001lx	138250lx	61445lx	34563lx	22120lx	15361lx	11286lx	8641lx	6827lx	5530lx	4570lx	3840lx	3272lx	2821lx	2458lx	2160lx	1913lx	1707lx	1532lx	1383lx
51375.4 fcd	12843.9 fcd	5708.4 fcd	3211 fcd	2055 fcd	1427.1 fcd	1048.5 fcd	802.7 fcd	634.3 fcd	513.8 fcd	424.6 fcd	356.8 fcd	304 fcd	262.1 fcd	228.3 fcd	200.7 fcd	177.8 fcd	158.6 fcd	142.3 fcd	128.4 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°
553k	535k	484k	409k	324k	236k	136k	43k	5k	1k	1k	1k	1k	1k	1k	1k	1k	1k	1k	1k
100%	97%	87%	74%	59%	43%	25%	8%	1%	0%	0%	0%	0%	0%	0%	0%	0%	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°
553k	535k	484k	409k	324k	236k	136k	43k	5k	1k	1k	1k	1k	1k	1k	1k	1k	1k	1k	1k
100%	97%	87%	74%	59%	43%	25%	8%	1%	0%	0%	0%	0%	0%	0%	0%	0%	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°
553k	535k	484k	409k	324k	236k	136k	43k	5k	1k	1k	1k	1k	1k	1k	1k	1k	1k	1k	1k
100%	97%	87%	74%	59%	43%	25%	8%	1%	0%	0%	0%	0%	0%	0%	0%	0%	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°
553k	535k	484k	409k	324k	236k	136k	43k	5k	1k	1k	1k	1k	1k	1k	1k	1k	1k	1k	1k
100%	97%	87%	74%	59%	43%	25%	8%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

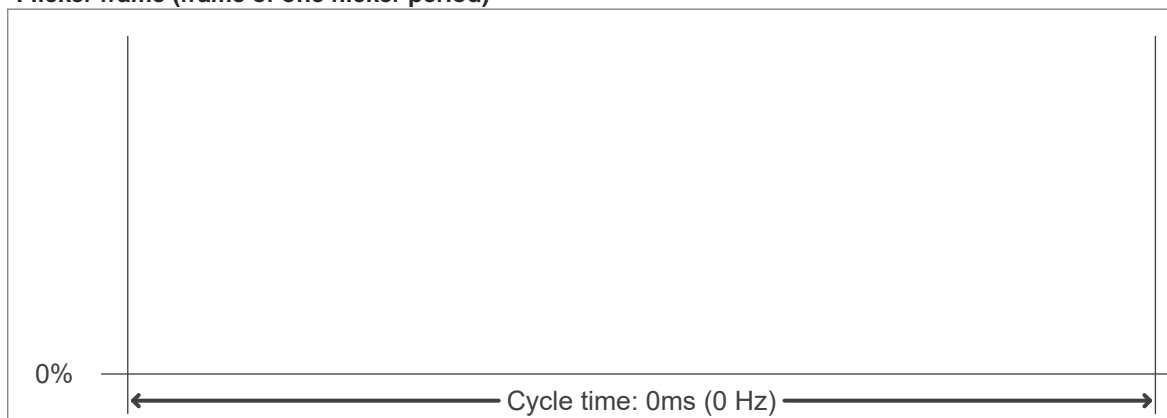
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9.1°	13.7°	15.2°	76.3%	72.2%

# Flicker

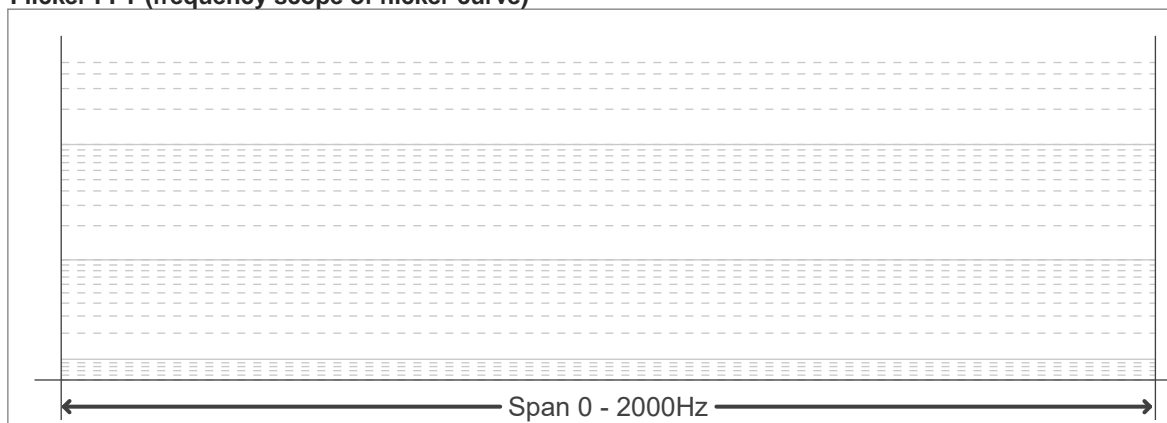
**Flicker curve (complete sampled flicker signal)**



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



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



**Flicker results:**

Flicker frequency:		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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