

Light efficiency:



Light quality:



Color temperature:



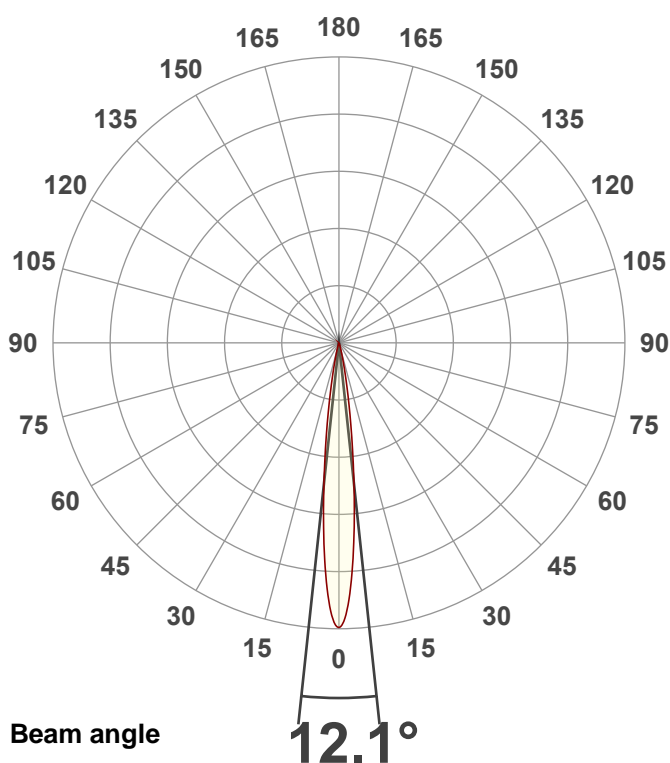
Output: 5196 lm
Peak: 92356 cd
Power: 386 W
PF: 1.0



Product name:
Encore FR Pro Color

Item number:
CRI 50%

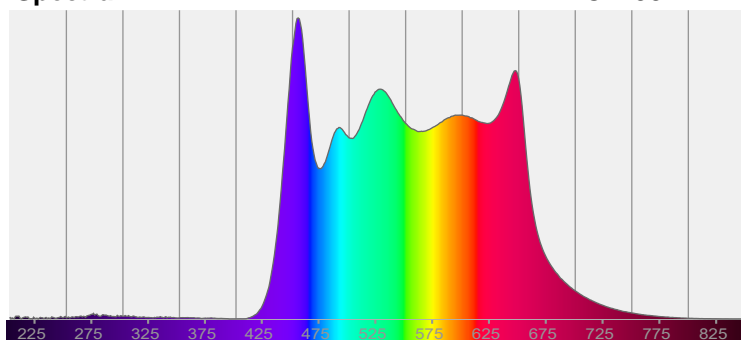
Note:
R @ 255
G @ 255
B @ 142
A @ 255
C @ 242
L @ 250



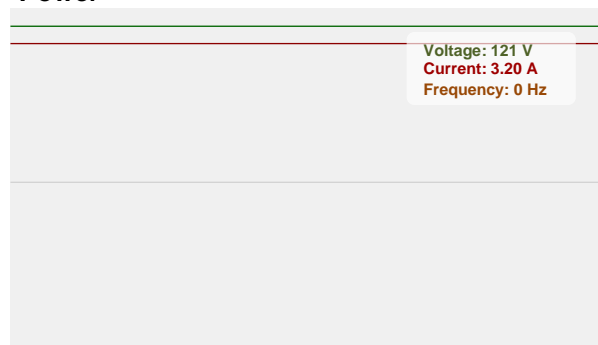
CIE 1931
x: 0.344
y: 0.361

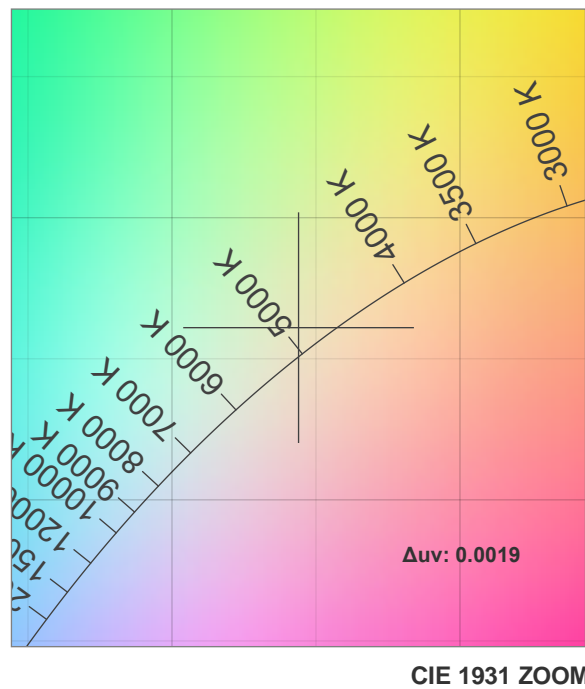
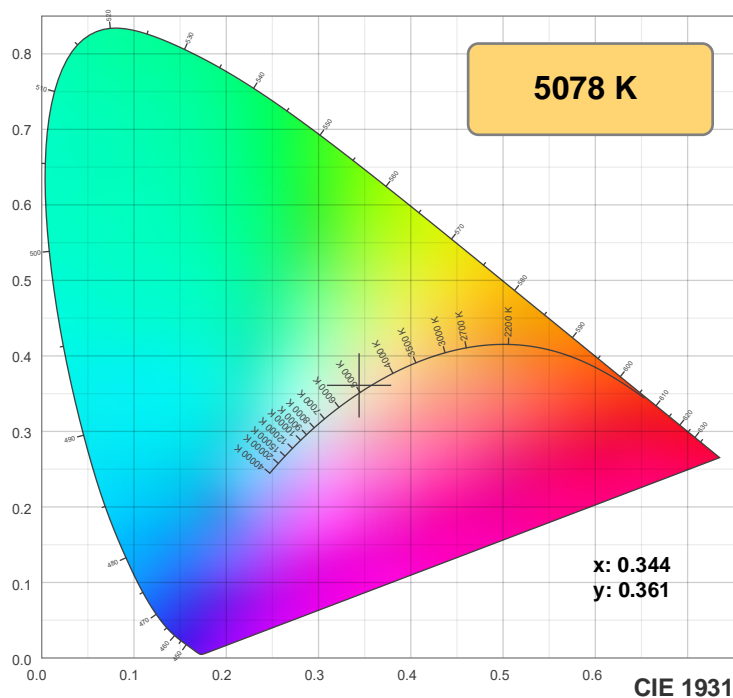
Spectra

TLCI: 98

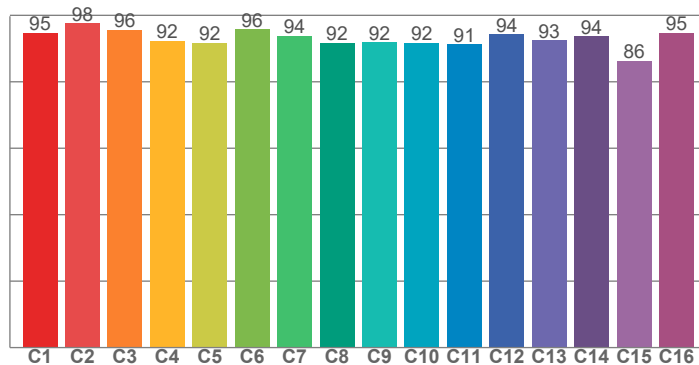


Power

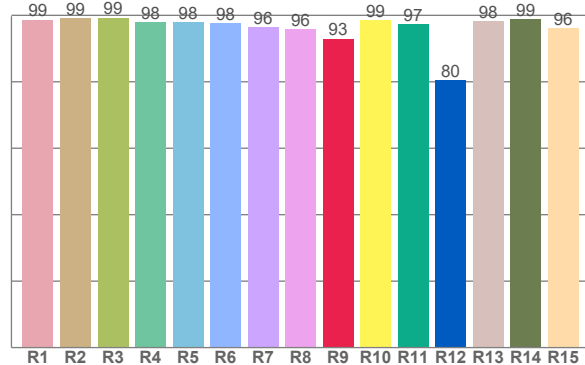




TM-30: 93.1



CRI: 97.8 (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
98.6	99.1	99.3	97.9	97.9	97.6	96.3	95.8	92.9	98.5	97.2	80.5	98.3	98.8	96.1

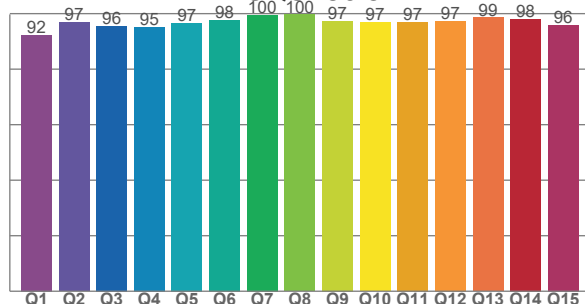
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94.7	97.6	95.7	92.4	91.7	95.8	93.9	91.8	91.9	91.7	91.2	94.3	92.5	93.7	86.2	94.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92.2	96.9	95.5	95.2	96.7	97.7	99.5	99.7	97.4	96.9	97.0	97.3	98.6	98.1	95.9

CQS: 96.5



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
5078 K	97.8	92.9	93.1	98.9	96.5	0.344	0.361	0.207	0.326	0.0019

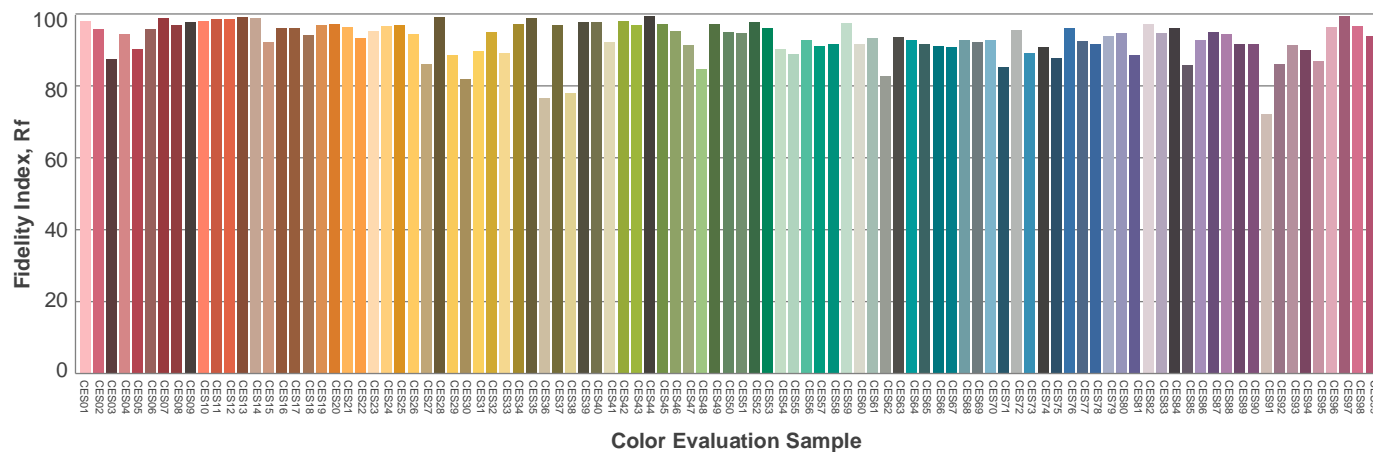
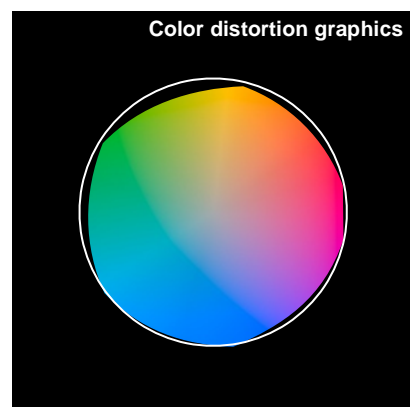
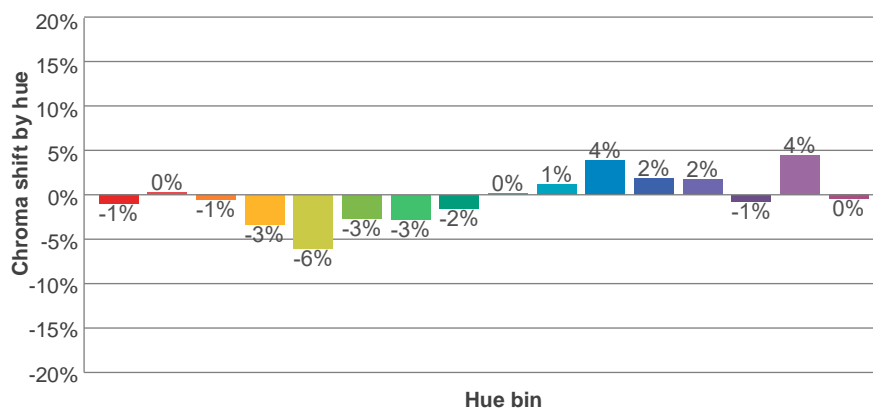
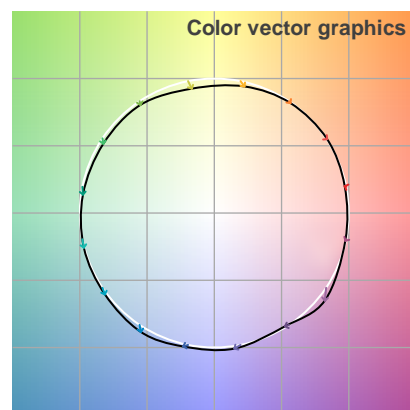
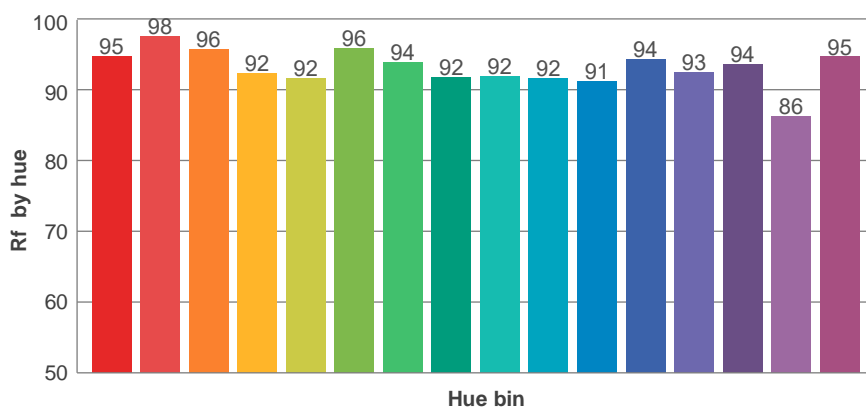
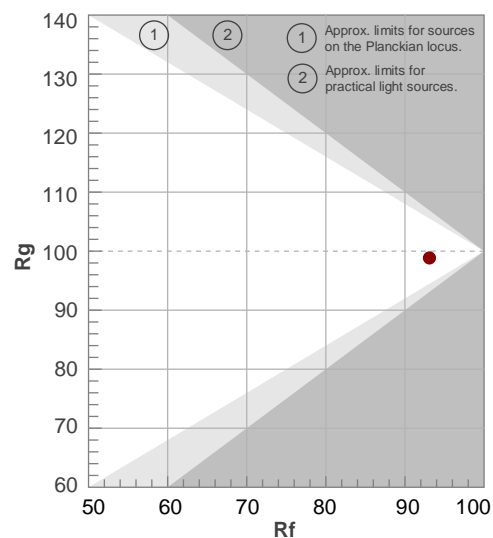
Rf 93.1

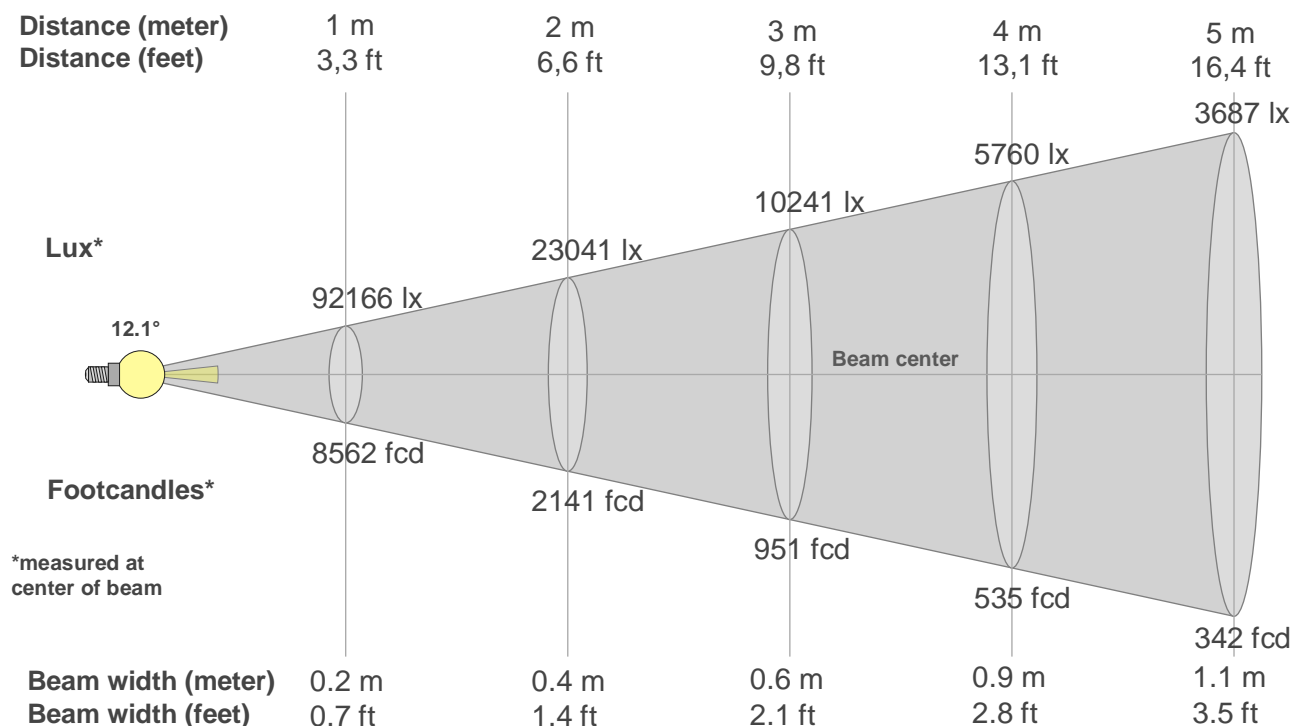
Fidelity index Rf

Rg 98.9

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	95	-1%	1%
2	98	0%	-1%
3	96	-1%	-2%
4	92	-3%	-4%
5	92	-6%	-2%
6	96	-3%	1%
7	94	-3%	3%
8	92	-2%	6%
9	92	0%	6%
10	92	1%	5%
11	91	4%	4%
12	94	2%	-3%
13	93	2%	-5%
14	94	-1%	-3%
15	86	4%	-8%
16	95	0%	-1%




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
92166lx	23041lx	10241lx	5760lx	3687lx	2560lx	1881lx	1440lx	1138lx	922lx	762lx	640lx	545lx	470lx	410lx	360lx	319lx	284lx	255lx	230lx
8562.5fcd	2140.6fcd	951.4fcd	535.2fcd	342.5fcd	237.8fcd	174.7fcd	133.8fcd	105.7fcd	85.6fcd	70.8fcd	59.5fcd	50.7fcd	43.7fcd	38.1fcd	33.4fcd	29.6fcd	26.4fcd	23.7fcd	21.4fcd

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°
92.2K	90.2K	84.9K	77.0K	67.4K	57.2K	46.9K	37.4K	29.0K	21.9K	16.1K	11.7K	8.3K	5.8K	4.1K	2.9K	2.0K	1.5K	1.1K	0.9K
100%	98%	92%	84%	73%	62%	51%	41%	31%	24%	18%	13%	9%	6%	4%	3%	2%	2%	1%	1%

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°
92.2K	90.2K	84.9K	77.0K	67.4K	57.2K	46.9K	37.4K	29.0K	21.9K	16.1K	11.7K	8.3K	5.8K	4.1K	2.9K	2.0K	1.5K	1.1K	0.9K
100%	98%	92%	84%	73%	62%	51%	41%	31%	24%	18%	13%	9%	6%	4%	3%	2%	2%	1%	1%

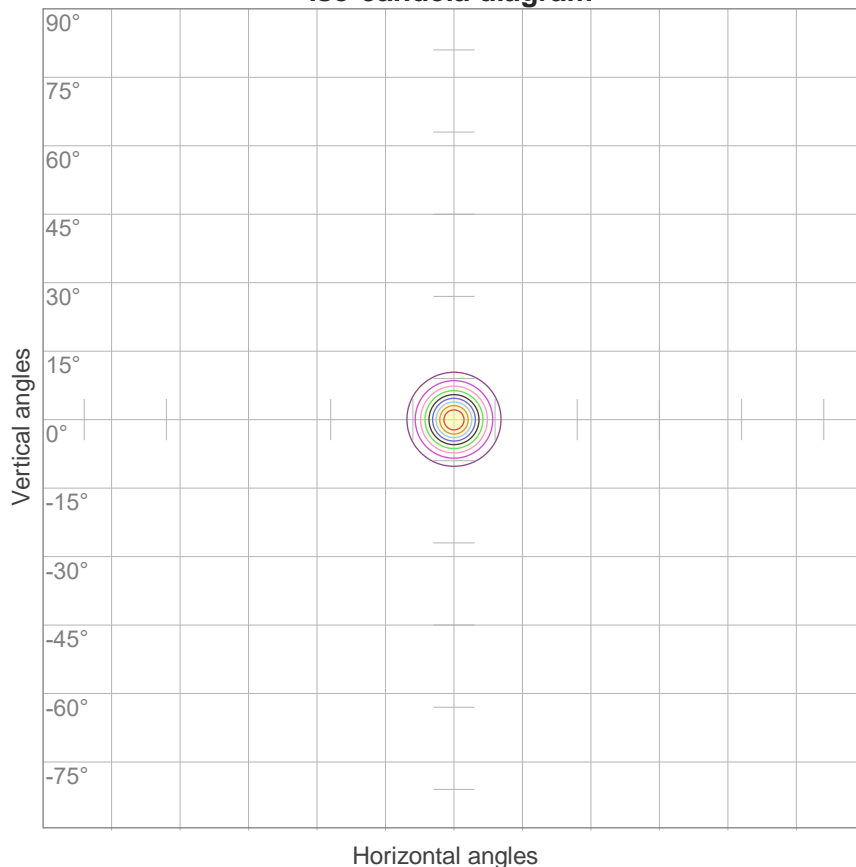
Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
92.2K	90.5K	85.5K	77.7K	68.1K	57.5K	46.9K	37.1K	28.6K	21.2K	15.3K	10.8K	7.6K	5.2K	3.6K	2.5K	1.8K	1.3K	0.9K	0.7K
100%	98%	93%	84%	74%	62%	51%	40%	31%	23%	17%	12%	8%	6%	4%	3%	2%	1%	1%	1%

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°
92.2K	90.5K	85.5K	77.7K	68.1K	57.5K	46.9K	37.1K	28.6K	21.2K	15.3K	10.8K	7.6K	5.2K	3.6K	2.5K	1.8K	1.3K	0.9K	0.7K
100%	98%	93%	84%	74%	62%	51%	40%	31%	23%	17%	12%	8%	6%	4%	3%	2%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
12.1°	23.2°	30.9°	100.0%	100.0%

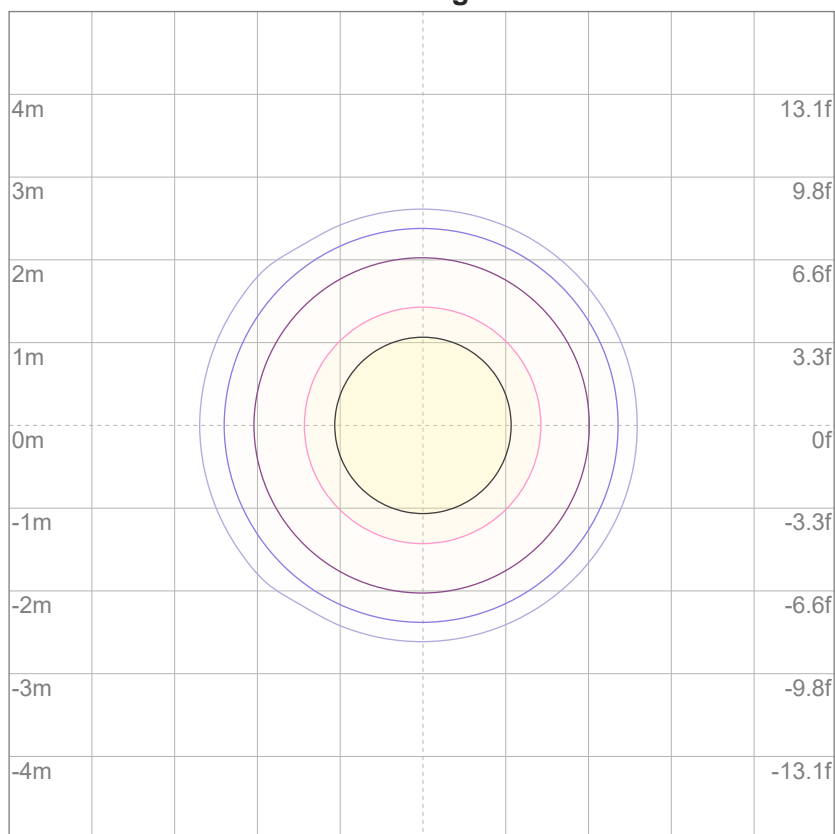
iso-candela diagram


10%	9217 cd
20%	18433 cd
30%	27650 cd
40%	36866 cd
50%	46083 cd
60%	55299 cd
70%	64516 cd
80%	73733 cd
90%	82949 cd

Conditions:

Number of c-planes: 2

Candela at center: 92166 cd

iso-lux diagram


3%	27.6 lx
5%	46.1 lx
10%	92.2 lx
30%	276 lx
50%	461 lx

Conditions:

Number of c-planes: 2

Lux at center: 922 lx

*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

Glare evaluation according to UGR

p Ceiling	70	70	50	50	30	70	70	50	50	30
p Walls	50	30	50	30	30	50	30	50	30	30
p Floor	20	20	20	20	20	20	20	20	20	20
Room size X Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variation of the observer position for the luminaire distance S										
n/a	n/a					n/a				
n/a	n/a					n/a				
n/a	n/a					n/a				
CIE 117-1995. Corrected glare indices referring to 5196 lm total luminous flux										

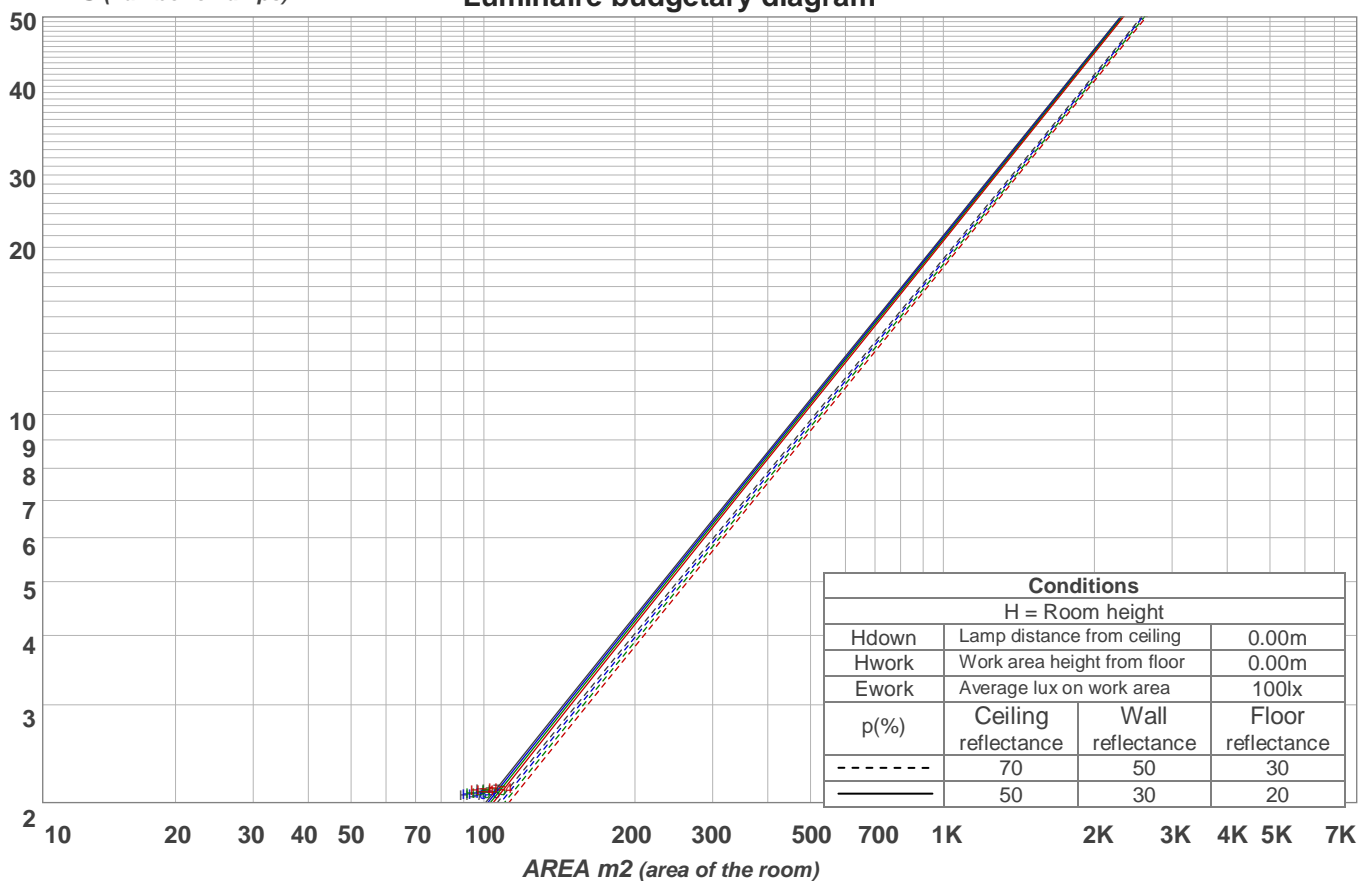
UGR data could not be calculated due to missing dimensions. Goto Edit->Photometric->Dimensions and set the fixture/lamp dimensions.

Coefficients of Utilization

Ceiling reflectance	80				70				50			30			10			0
Wall reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0
RCR	(RCR: Room Cavity Ratio) Room Values are expressed as percentage of Lumens delivered to the task surface																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	116	115	113	112	114	112	111	110	109	108	107	105	104	104	102	101	101	99
2	114	111	109	107	112	109	107	106	106	105	104	104	102	101	101	100	99	98
3	112	108	106	104	110	107	105	103	105	103	101	102	101	100	100	99	98	97
4	110	106	103	101	108	105	102	101	103	101	99	101	100	98	100	98	97	96
5	108	104	101	99	107	103	101	99	102	100	98	100	99	97	99	98	96	96
6	106	102	100	98	105	102	99	97	101	98	97	99	98	96	98	97	96	95
7	105	101	98	96	104	100	98	96	99	97	96	99	97	95	98	96	95	94
8	104	100	97	95	103	99	97	95	98	96	95	98	96	94	97	95	94	93
9	103	99	96	94	102	98	96	94	98	95	94	97	95	94	96	95	93	93
10	102	97	95	93	101	97	95	93	97	95	93	96	94	93	96	94	93	92

LAMPS (number of lamps)

Luminaire budgetary diagram



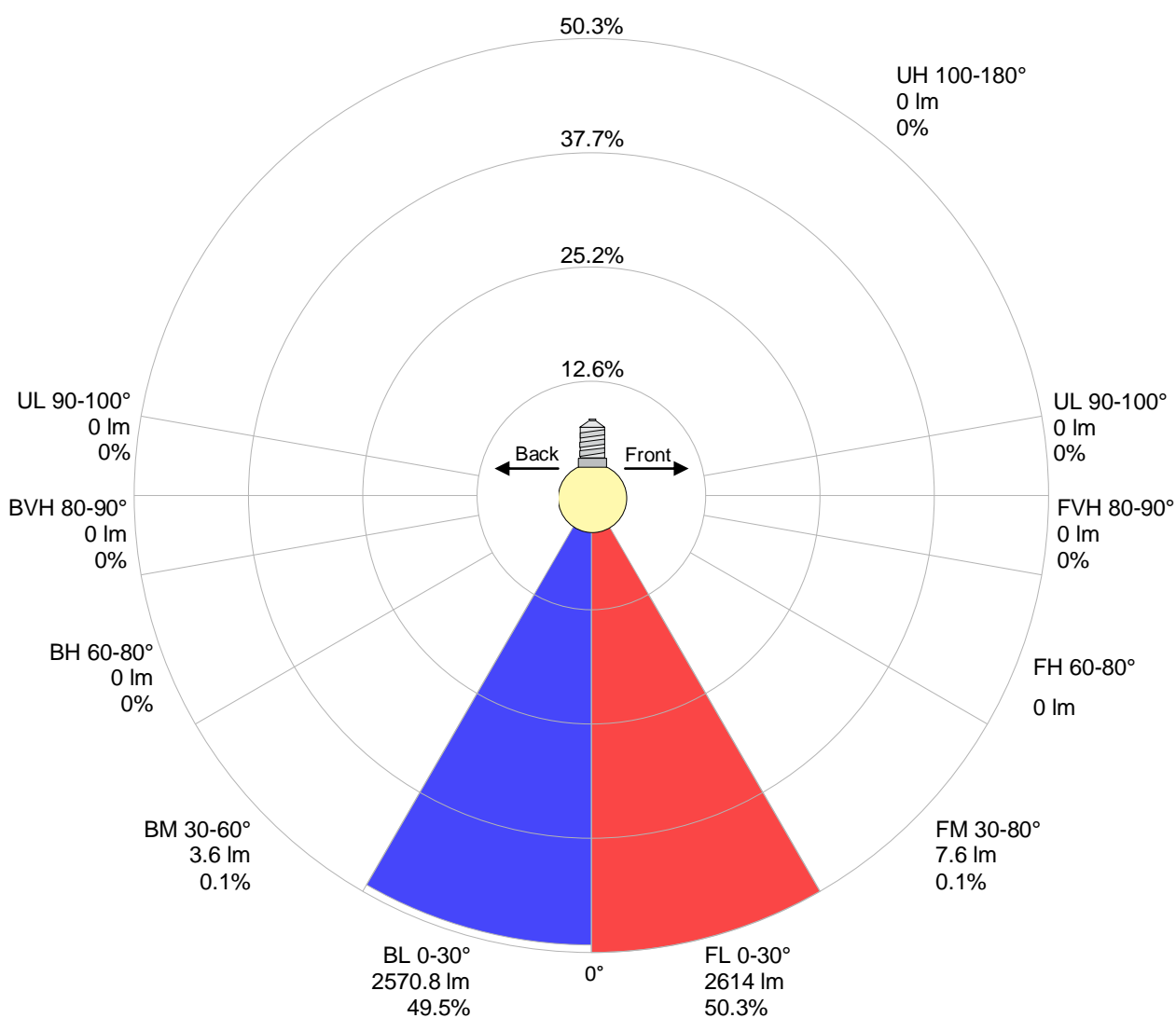
Zonal Lumen Summary

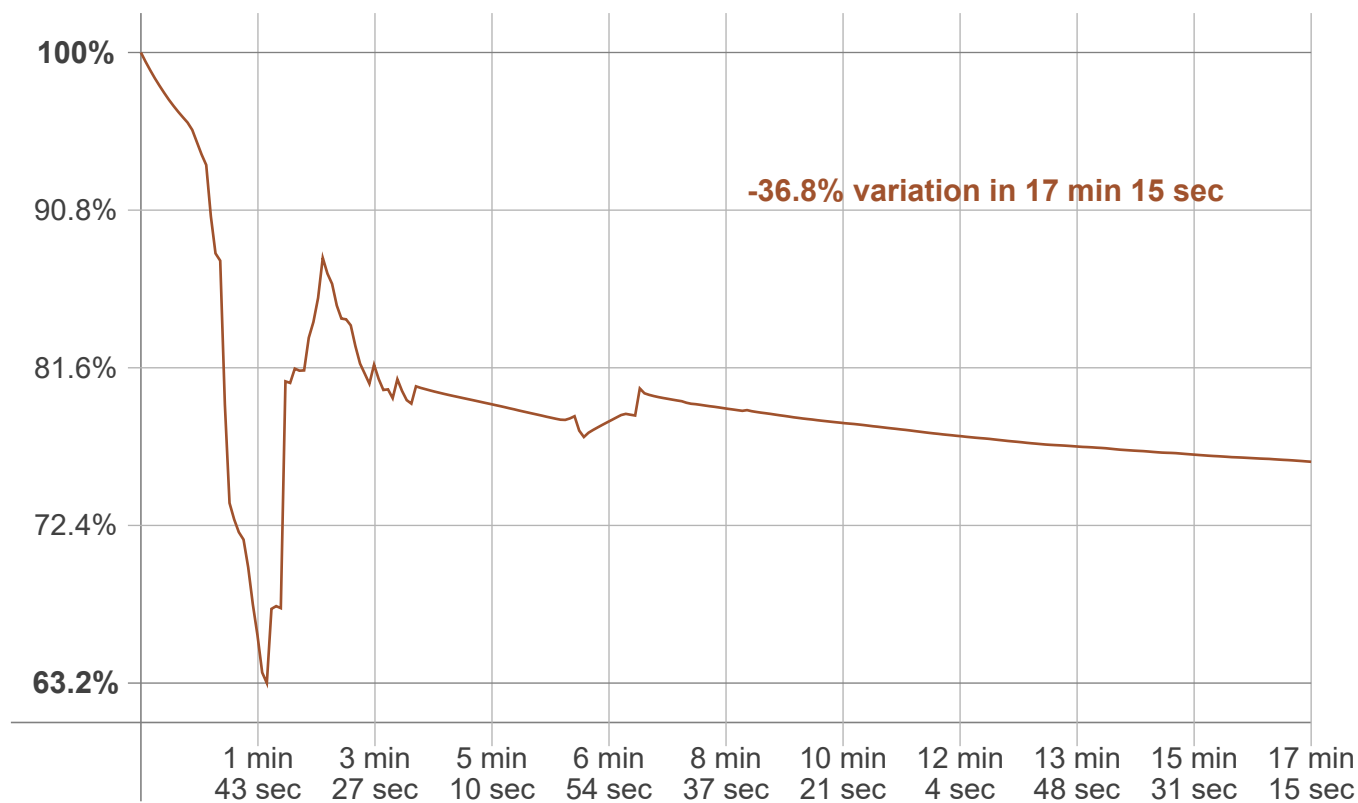
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	1052 lm	116 lm	7.82 lm	0.643 lm	0.001 lm	0.000 lm	0.000 lm	0.000 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm

LCS table

BUG rating:	B4 U1 G0	
Forward light	Lumens	Lumens %
Low(0-30):	2614	50.3%
Medium(30-60):	7.6	0.1%
High(60-80):	0	0%
Very high(80-90):	0	0%
Back light		
Low(0-30):	2570.8	49.5%
Medium(30-60):	3.6	0.1%
High(60-80):	0	0%
Very high(80-90):	0	0%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

LCS graph



Warmup curve

Warmup result

Warmup time:	Not completed
Warmup variation	-36.8%

Warmup conditions

Stable period:	15 min
Stable change max:	2.0%
Minimum time:	15 min

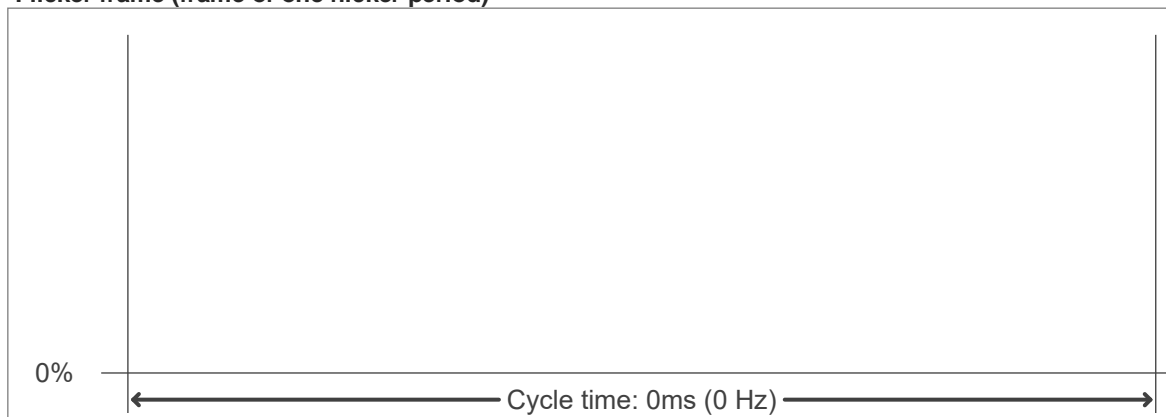
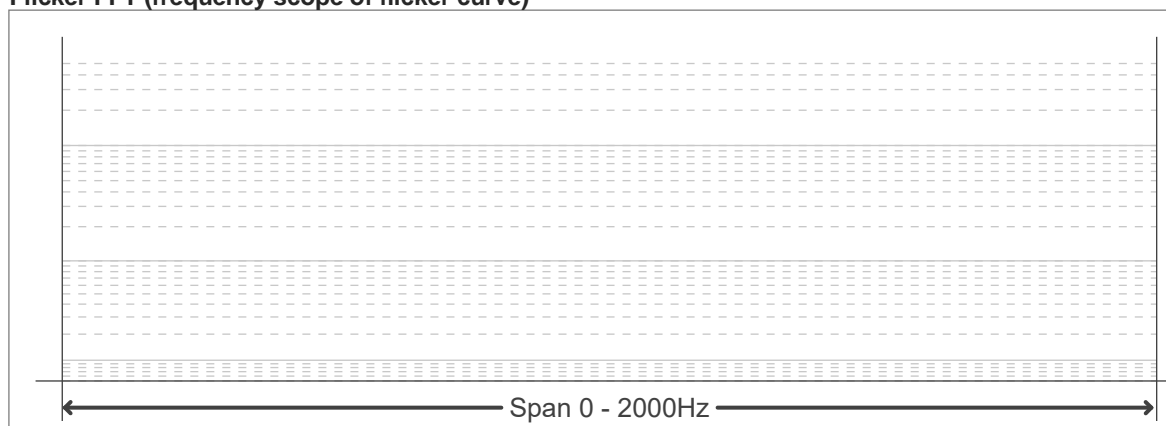
Color temperature change

CCT start	CCT change	CCT end
6829 K	-1751 K	5078 K

Output change

Output start	Output change	Output end
5485 lm	-288 lm	5196 lm

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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