WPGL2-SW3B35-HPC

Light efficiency:

145 Lumen/Watt

Light quality:

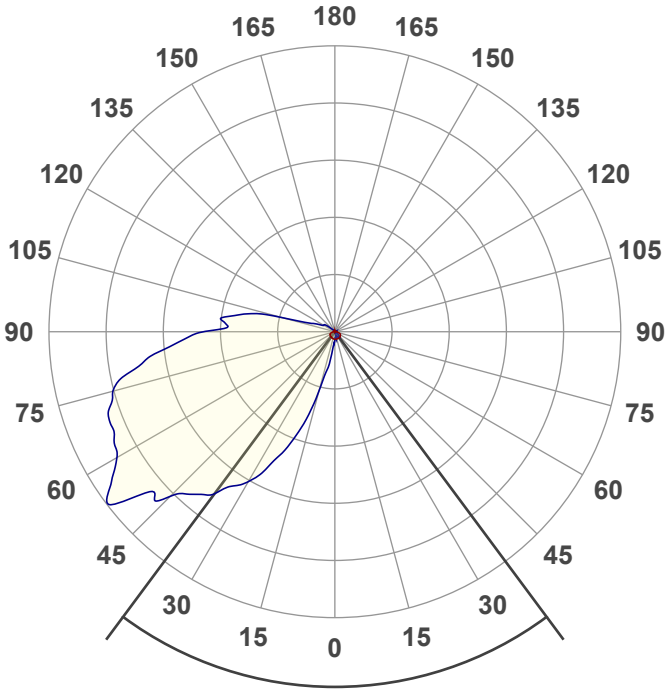
CRI: 73.3

Color temperature:

3920 K

Output: 4727 lm
Peak: 2962 cd

Power: 32.6 W
PF: 0.99



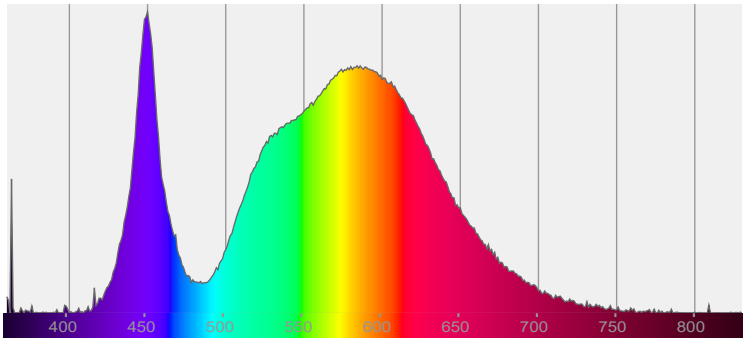
Beam angle 73.2°

CIE 1931
x: 0.384
y: 0.380

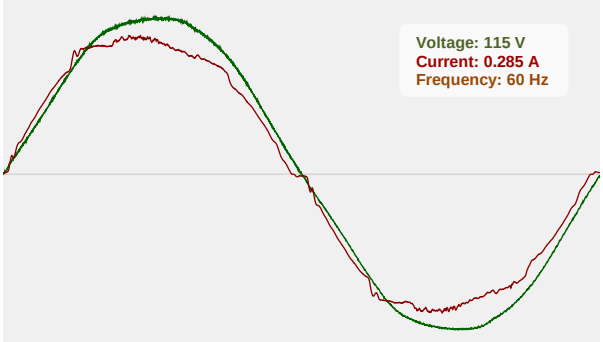
Product name:
WPGL2-SW3B35-HPC (35 W)
Item number:

Date and time:
8/3/2022 10:33:26 AM

Spectra



Power



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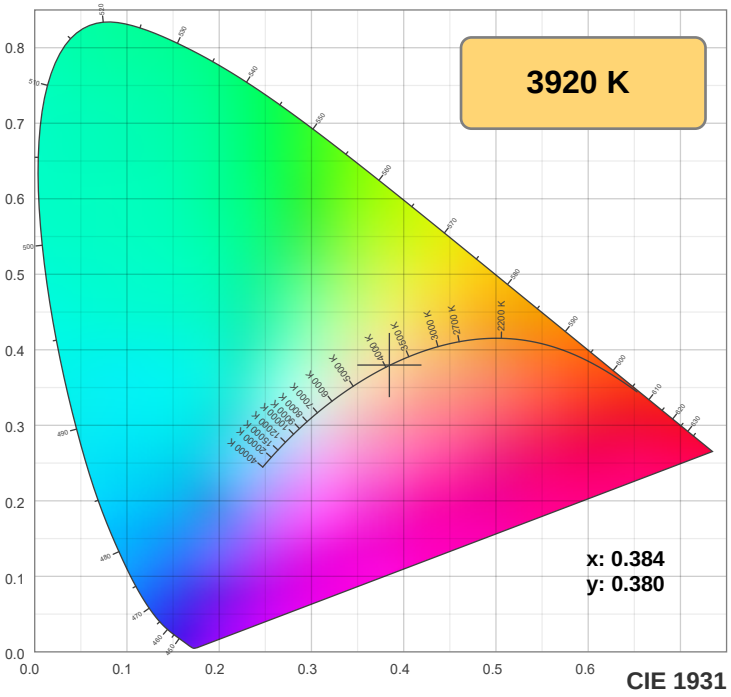
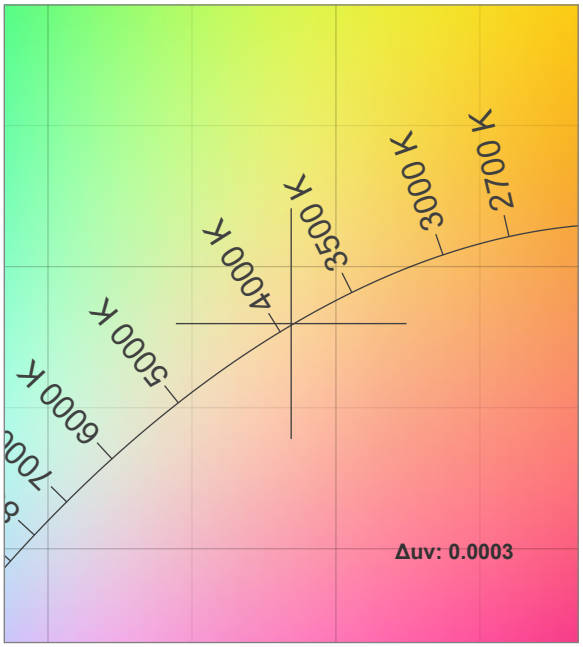
Color Specifications

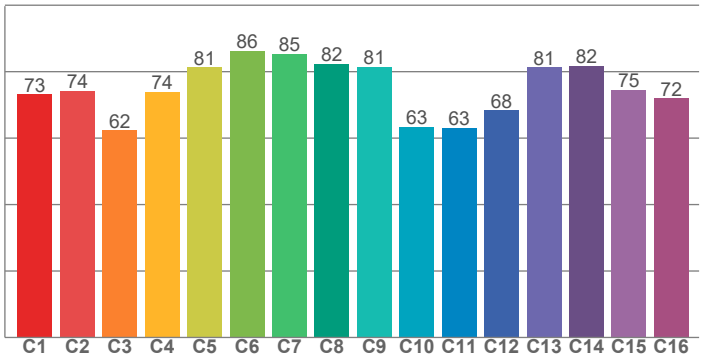


CIE 1931

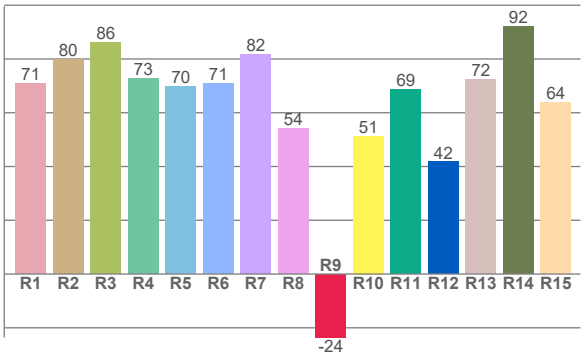


CIE 1931 ZOOM

TM30: 74.8



CRI: 73.3 (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
70.9	79.7	86.3	72.7	69.9	71.0	81.6	54.3	-23.6	51.4	68.6	41.7	72.3	92.0	63.9

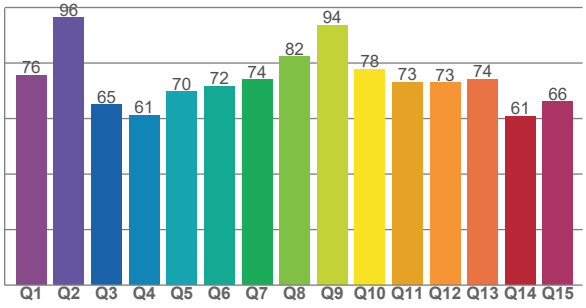
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
73.2	74.2	62.3	73.9	81.3	86.3	85.3	82.3	81.4	63.4	63.0	68.4	81.3	81.8	74.6	71.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
75.6	96.3	64.9	61.2	69.8	71.6	74.1	82.4	93.6	77.8	73.1	72.9	74.2	60.8	66.1

CQS: 72.5



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3920 K	73.3	-23.6	74.8	95.2	72.5	0.384	0.380	0.227	0.336	0.0003

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TM30 Report

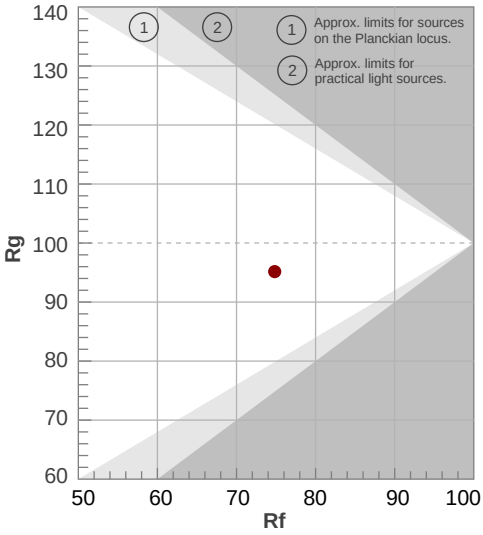
Rf 74.8

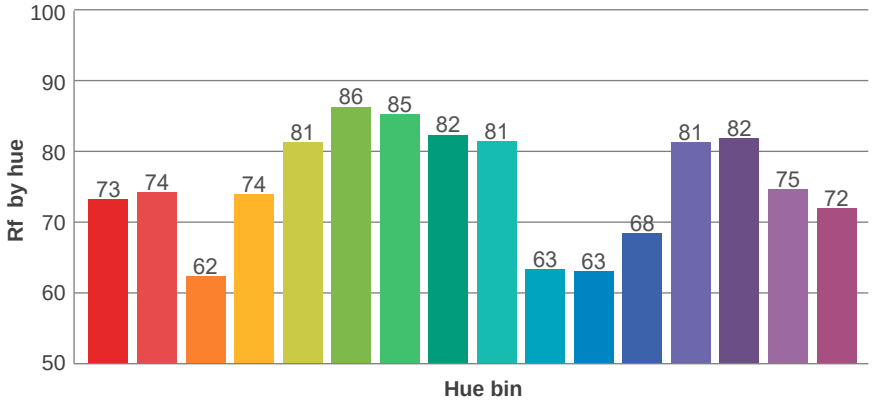
Fidelity index Rf

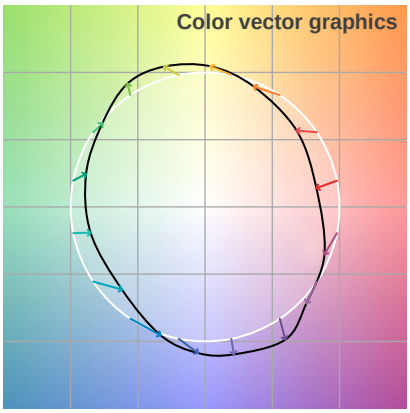
Rg 95.2

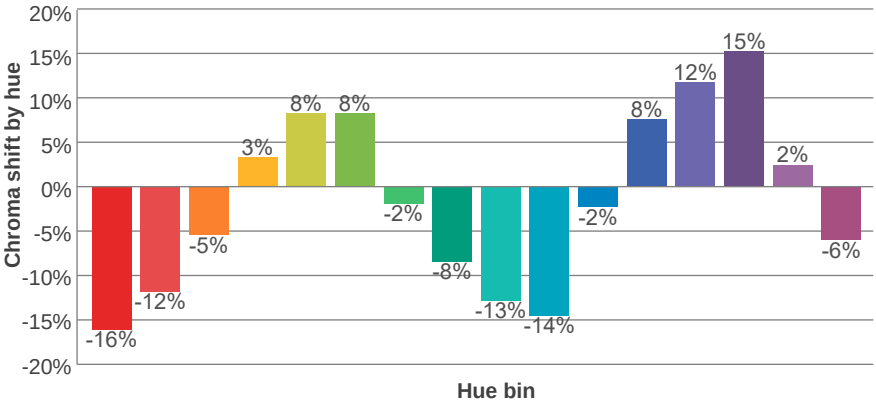
Gammut index Rg

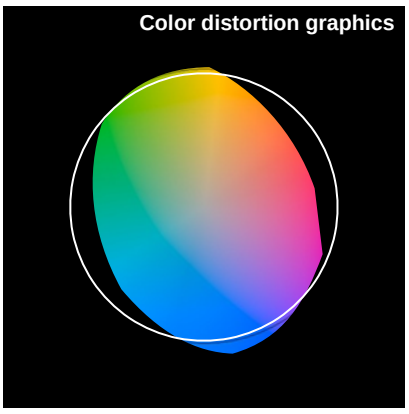
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	73	-16%	-2%
2	74	-12%	9%
3	62	-5%	20%
4	74	3%	16%
5	81	8%	10%
6	86	8%	-3%
7	85	-2%	-9%
8	82	-8%	-7%
9	81	-13%	2%
10	63	-14%	17%
11	63	-2%	26%
12	68	8%	16%
13	81	12%	0%
14	82	15%	-5%
15	75	2%	-18%
16	72	-6%	-17%

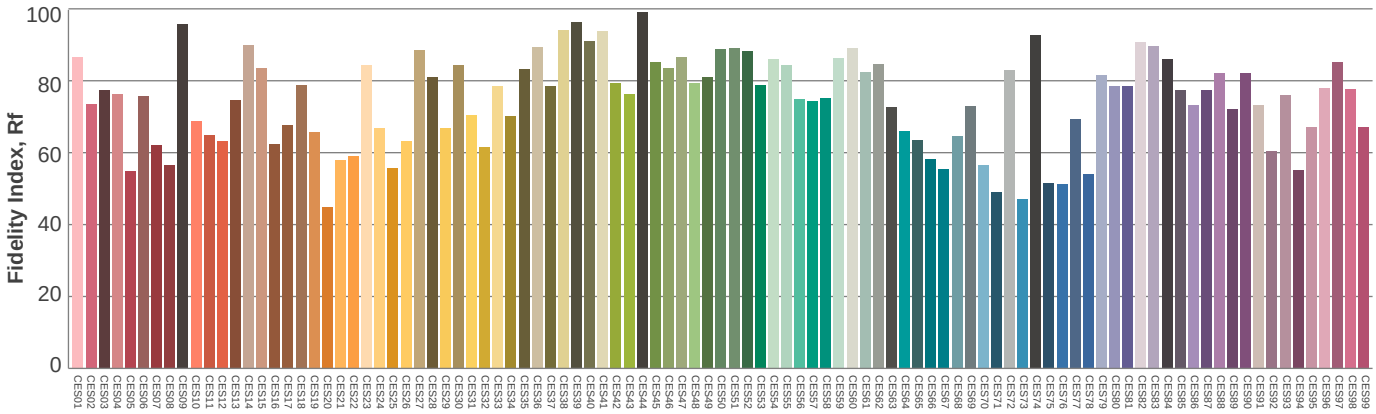












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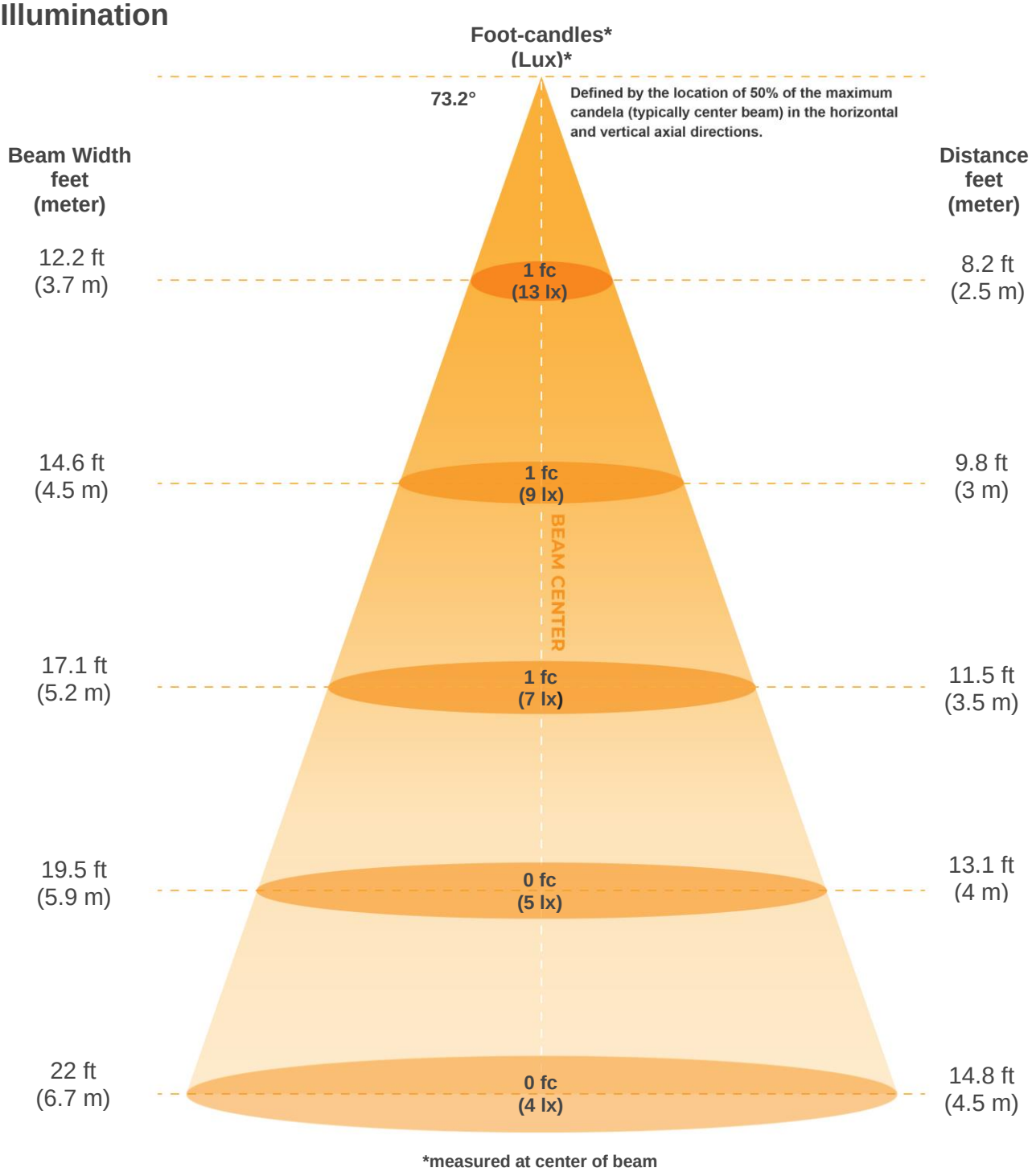
Illumination



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
81lx	20lx	9lx	5lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
7.5fcd	1.9fcd	0.8fcd	0.5fcd	0.3fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
73.2°	**117°**	**202.6°**	**42.0%**	**19.4%**

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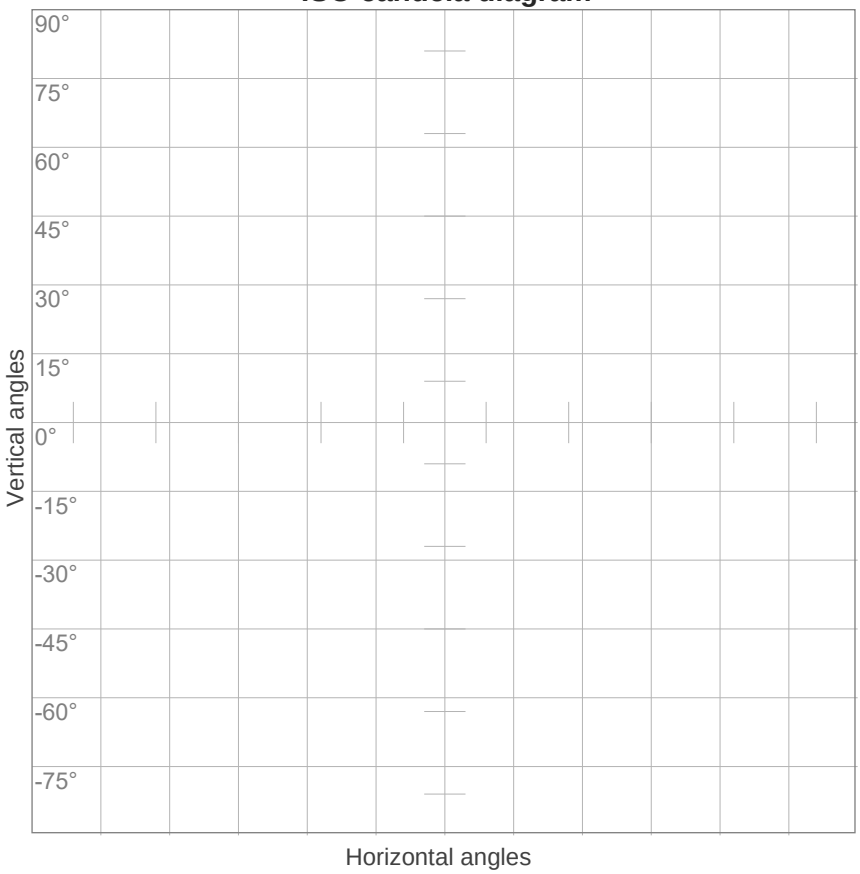
ISO Diagrams

ISO candela diagram



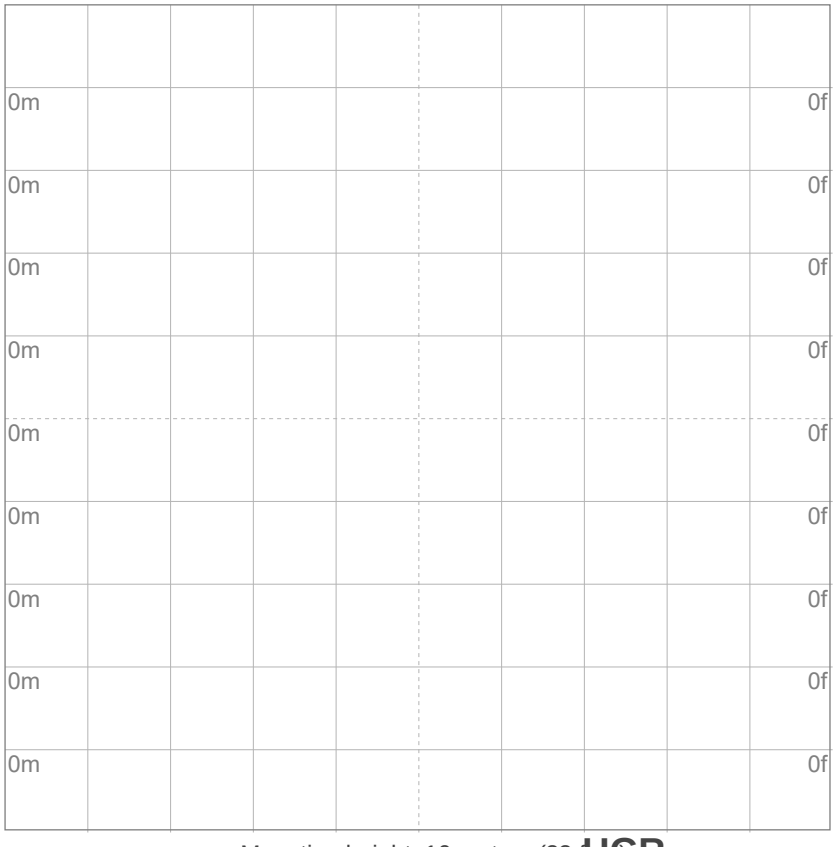
10%	8 cd
20%	16 cd
30%	24 cd
40%	32 cd
50%	41 cd
60%	49 cd
70%	57 cd
80%	65 cd
90%	73 cd

Conditions:

Number of c-planes: 16

Candela at center: 81 cd

ISO lux diagram



3%	24.3m lx
5%	40.5m lx
10%	81.0m lx
30%	0.243 lx
50%	0.405 lx

Conditions:

Number of c-planes: 16

Lux at center: 0.810 lx

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

UGR

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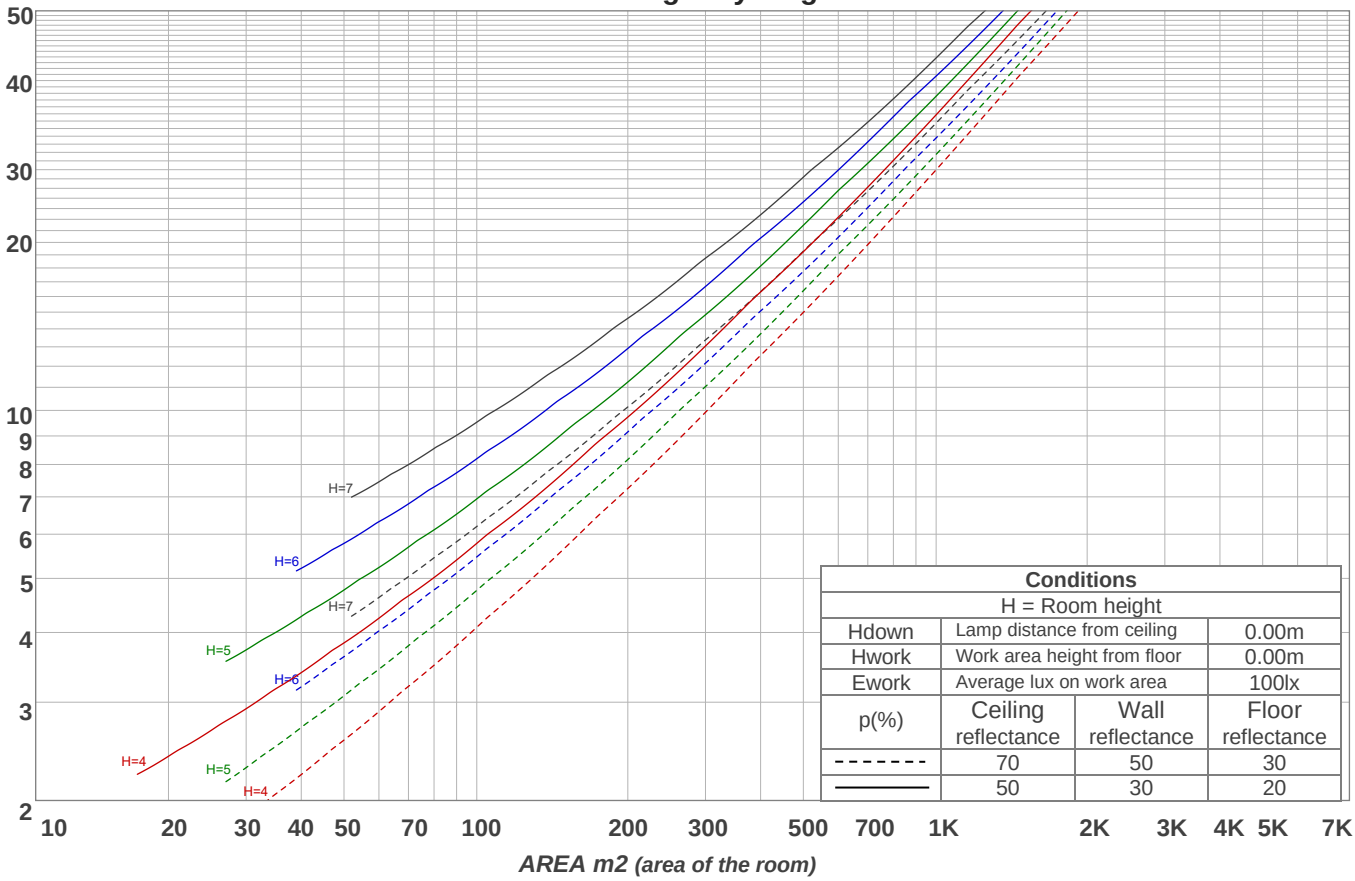
Light Planning

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	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86
1	99	91	85	79	94	88	81	76	81	75	71	74	70	66	68	65	62	58
2	87	75	66	58	82	72	63	56	66	58	52	60	54	49	55	50	46	42
3	77	63	52	44	73	60	50	42	55	47	40	50	43	37	46	40	35	32
4	69	54	43	34	65	52	41	33	47	38	31	43	35	29	39	33	27	24
5	62	47	36	28	59	45	35	27	41	32	25	37	30	24	34	27	22	19
6	57	41	30	23	54	39	29	22	36	27	21	33	25	19	30	23	18	15
7	52	36	26	19	49	35	25	19	32	24	17	29	22	16	27	20	15	13
8	48	33	23	16	46	31	22	16	29	21	15	26	19	14	24	18	13	10
9	45	29	20	14	42	28	19	13	26	18	13	24	17	12	22	16	11	9
10	41	27	18	12	39	26	17	12	24	16	11	22	15	10	20	14	10	7

Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
9.74 lm	59.5 lm	199 lm	384 lm	581 lm	753 lm	771 lm	740 lm	569 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
390 lm	163 lm	62.4 lm	29.9 lm	8.93 lm	3.95 lm	1.72 lm	0.823 lm	0.277 lm

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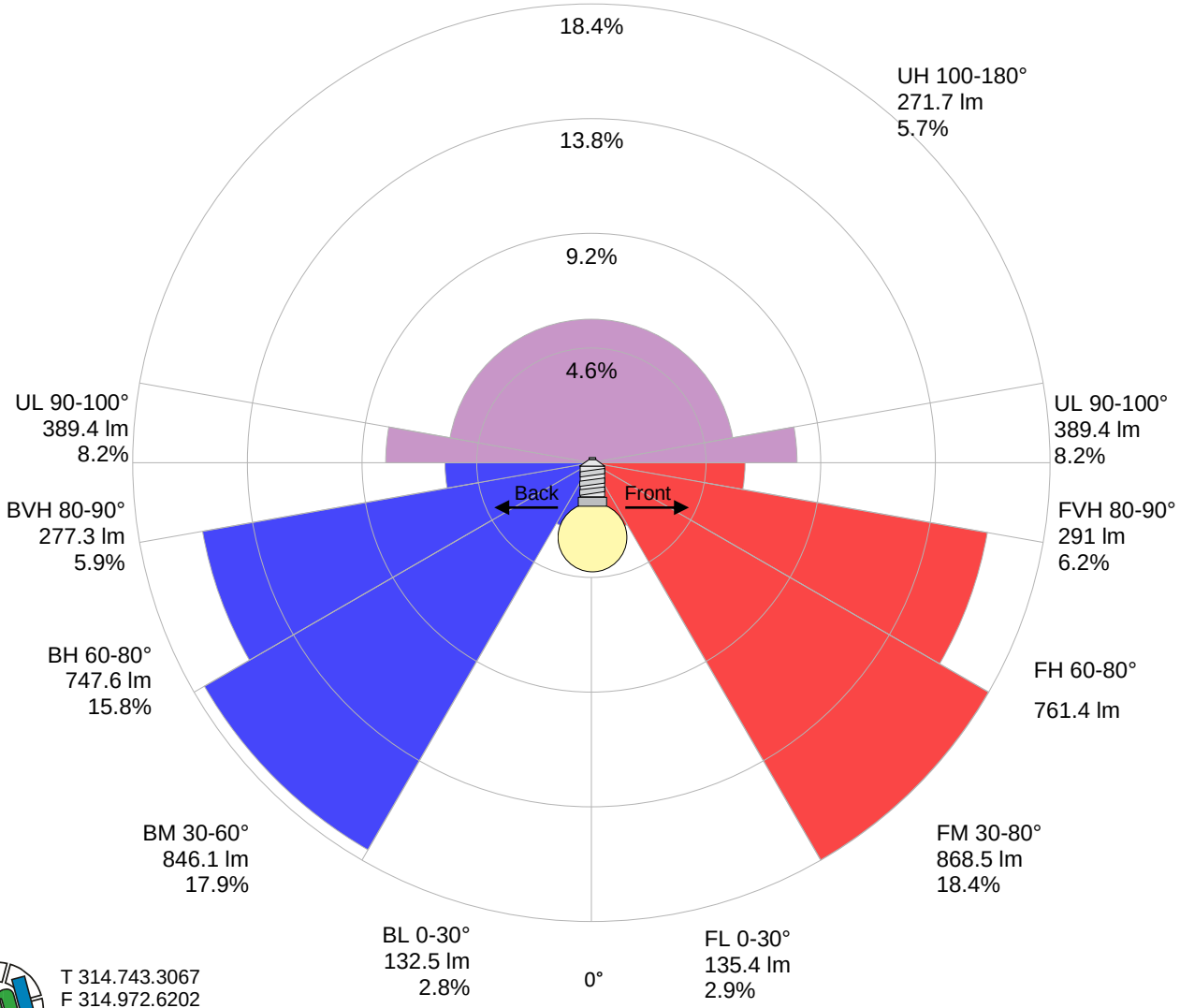
Road Report

LCS table

BUG rating:	B2 U3 G3	
Forward light	Lumens	Lumens %
Low(0-30):	135.4	2.9%
Medium(30-60):	868.5	18.4%
High(60-80):	761.4	16.1%
Very high(80-90):	291	6.2%
Back light		
Low(0-30):	132.5	2.8%
Medium(30-60):	846.1	17.9%
High(60-80):	747.6	15.8%
Very high(80-90):	277.3	5.9%
Uplight		
Low(90-100):	389.4	8.2%
High(100-180):	271.7	5.7%

LCS graph



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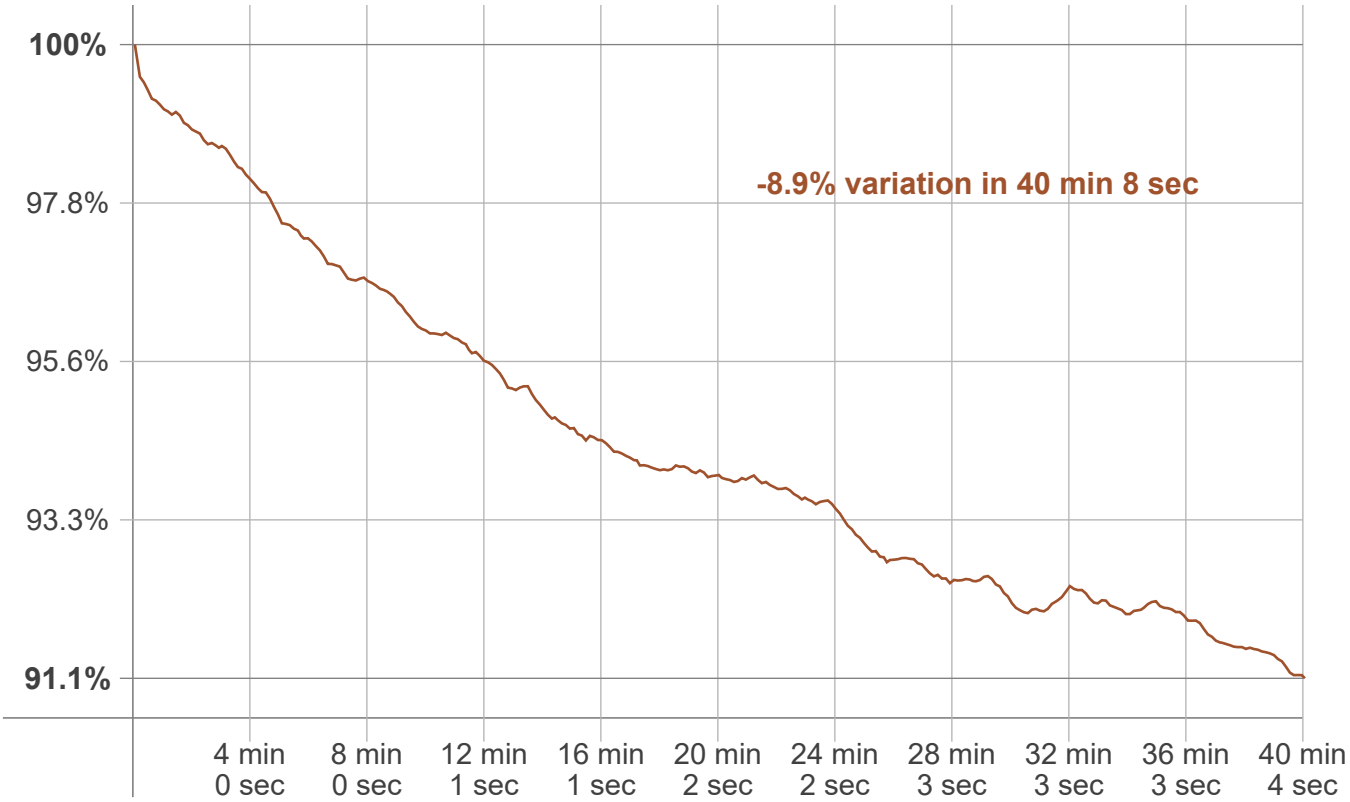
Stabilization

Warmup curve



Warmup result

Warmup time:	**Lamp stabilized in 40 min 8 sec**
Warmup variation	**-9.5%**

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
3908 K	+12 K	3920 K

Output change

Output start	Output change	Output end
4924 lm	-196 lm	4727 lm

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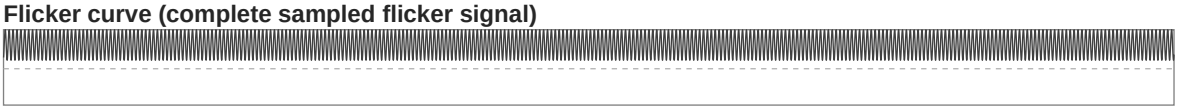
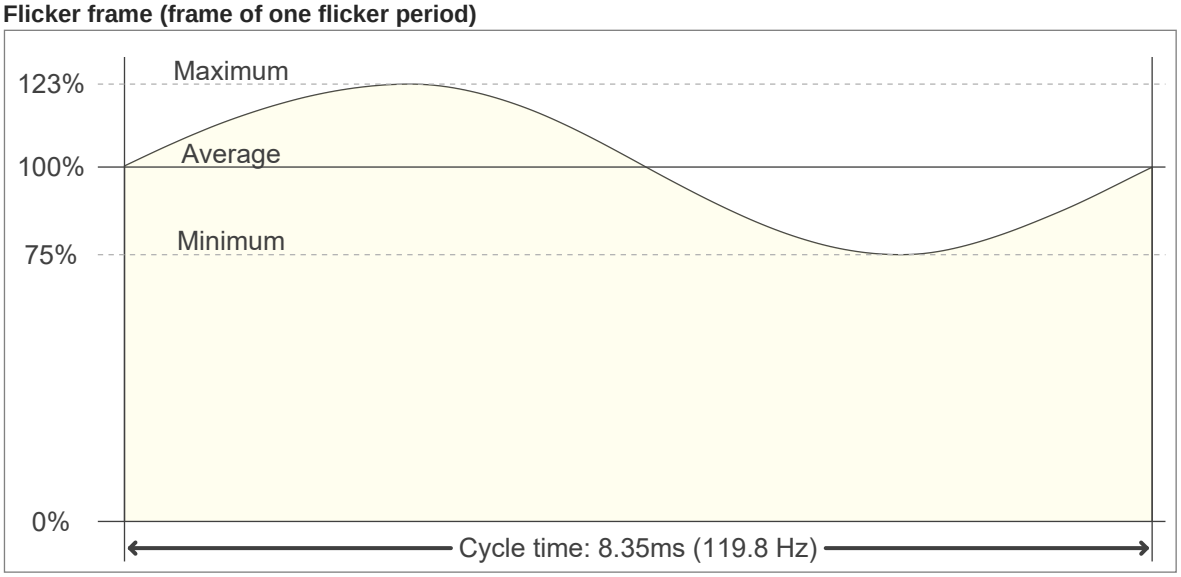
Flicker Specifications

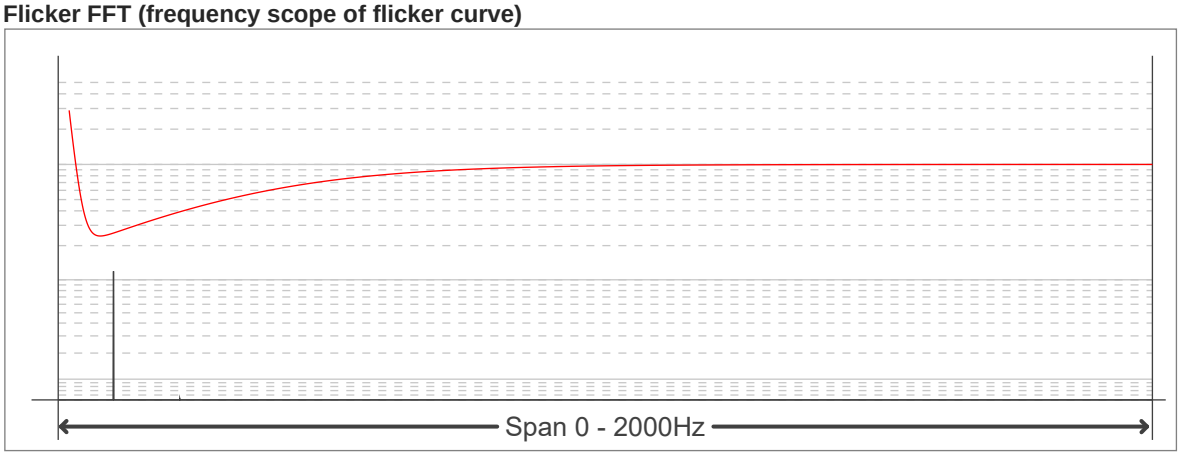
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:	**119.76 Hz**
Flicker index:	**0.08**
Flicker percentage:	**24.3 %**
SVM: (Visual flicker)	**0.86**

Flicker conditions:

Sample rate:	**20000 samples/second**

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