

Light efficiency:

∞ Lumen/Watt

Light quality:

CRI: 72.7

Color temperature:

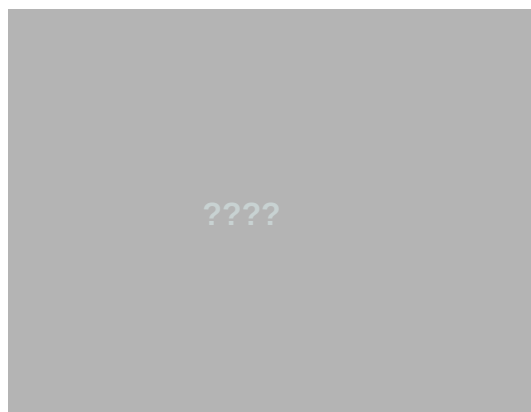
6566 K

Output: 14013 lm

Peak: 24738 cd

Power: - W

PF: n/a



Tracking number: [n/a](#)

Product name:

VL550S ZOOM 255 FOCUS 85

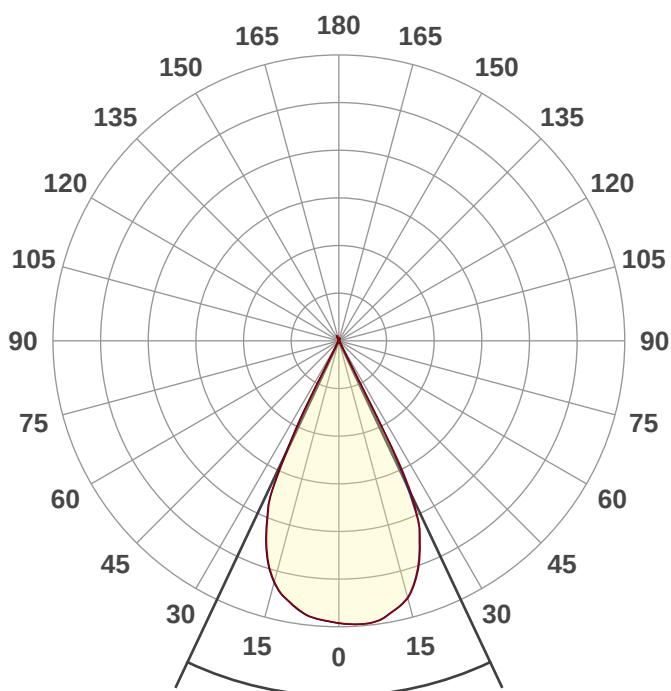
Item number:

Date and time:

2019/10/26 8:58:42

Description:

VL550S ZOOM 255 FOCUS 85



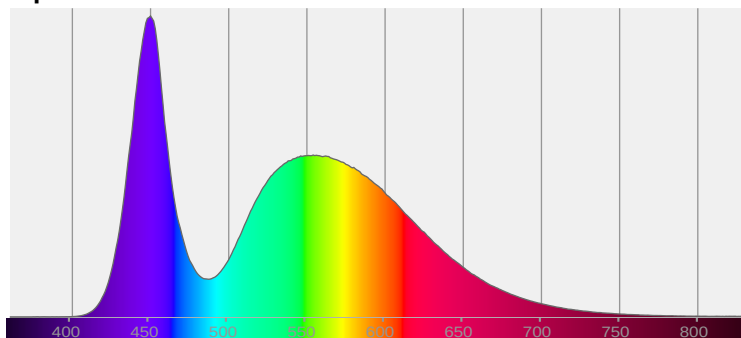
Beam angle

50.4°

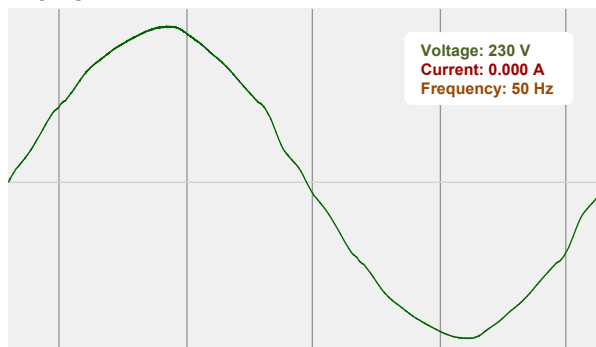


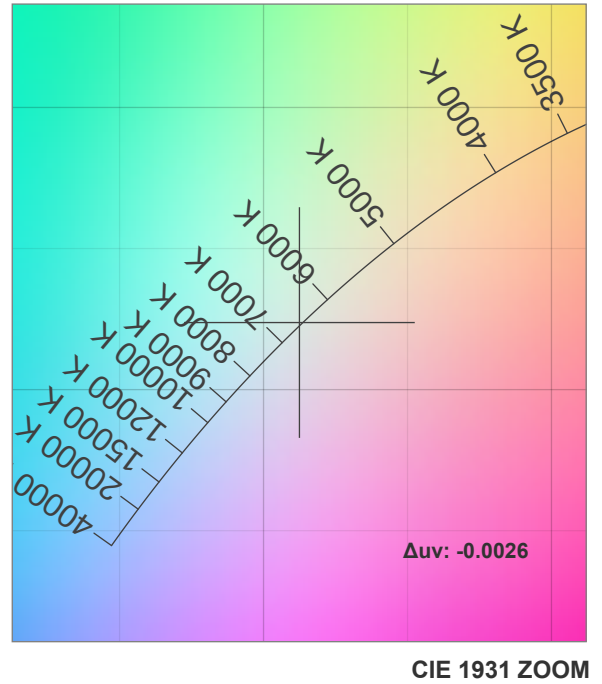
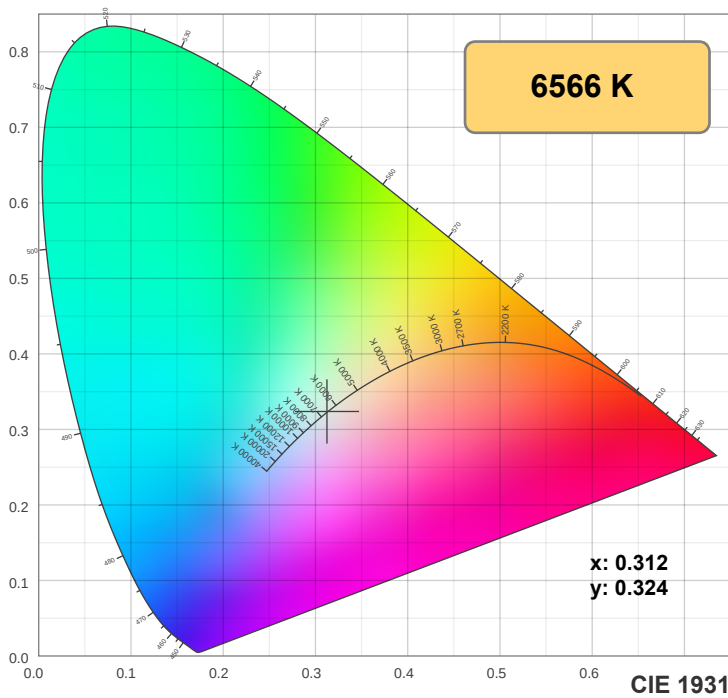
CIE 1931
x: 0.312
y: 0.324

Spectra

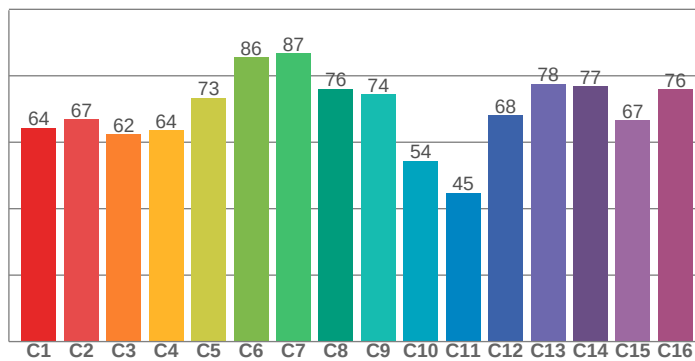


Power

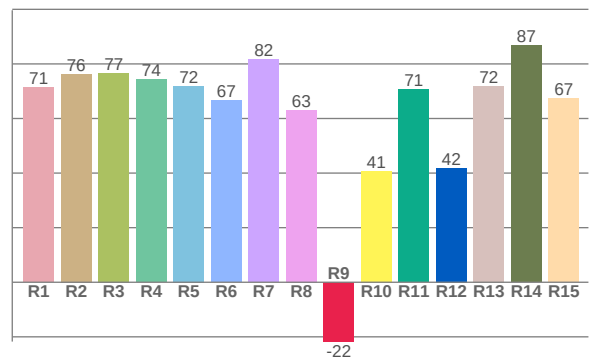




TM30: 69.3



CRI: 72.7 (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
71.4	76.3	76.7	74.3	71.9	66.6	81.6	63.1	-21.7	40.8	70.7	41.9	71.9	86.7	67.2

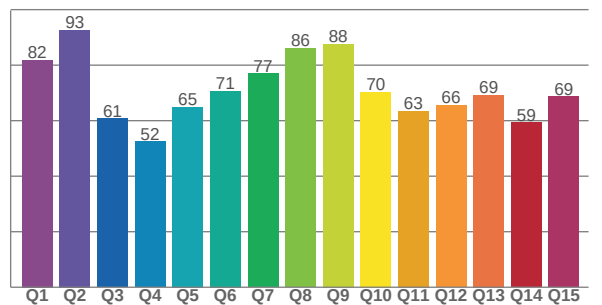
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
64.3	66.9	62.3	63.5	73.3	85.6	86.8	76.0	74.4	54.4	44.8	68.1	77.6	76.8	66.5	75.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81.8	92.7	60.8	52.5	64.9	70.7	77.0	86.0	87.7	70.3	63.5	65.5	69.2	59.3	68.6

CQS: 69.3



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
6566 K	72.7	-21.7	69.3	93.3	69.3	0.312	0.324	0.200	0.310	-0.0026

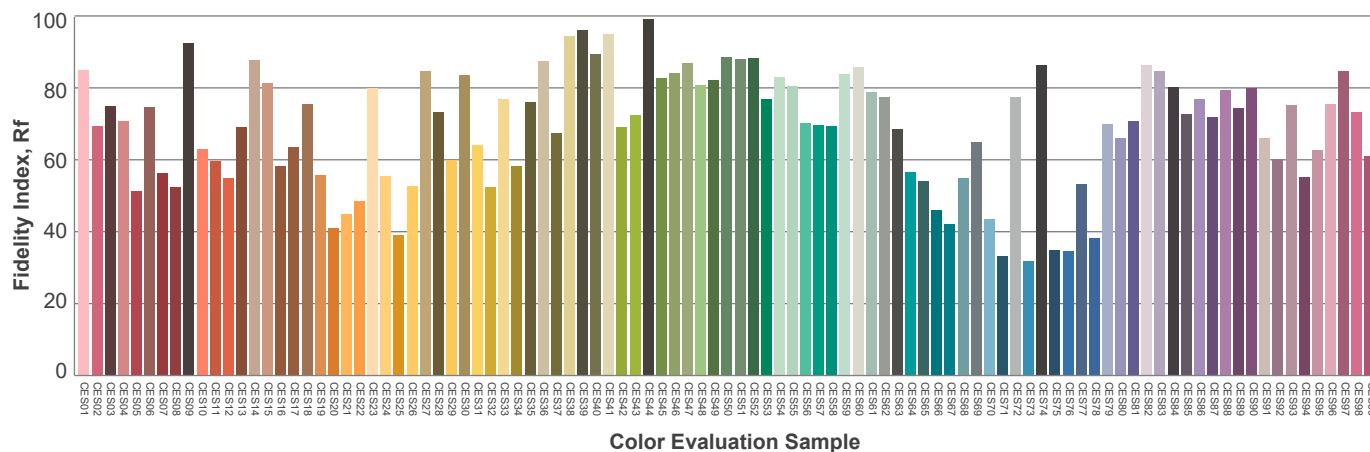
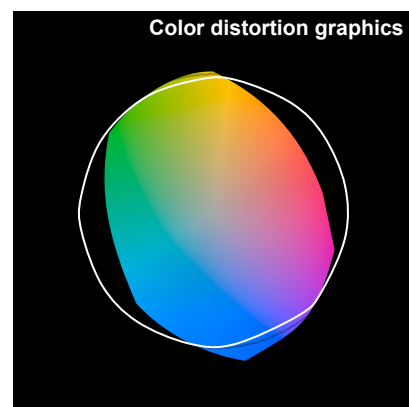
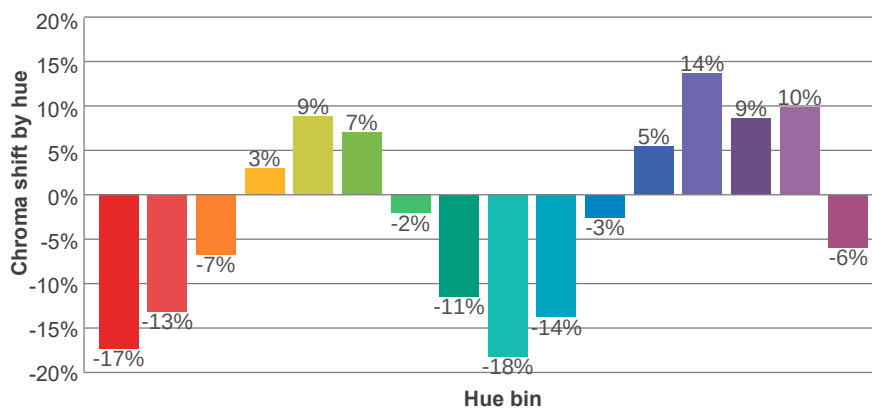
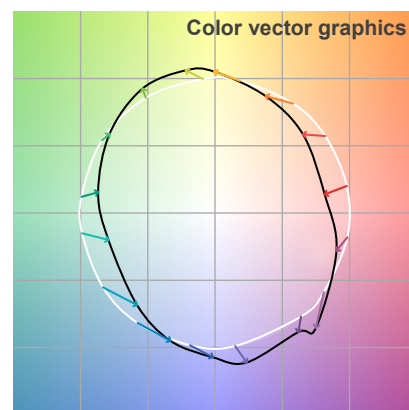
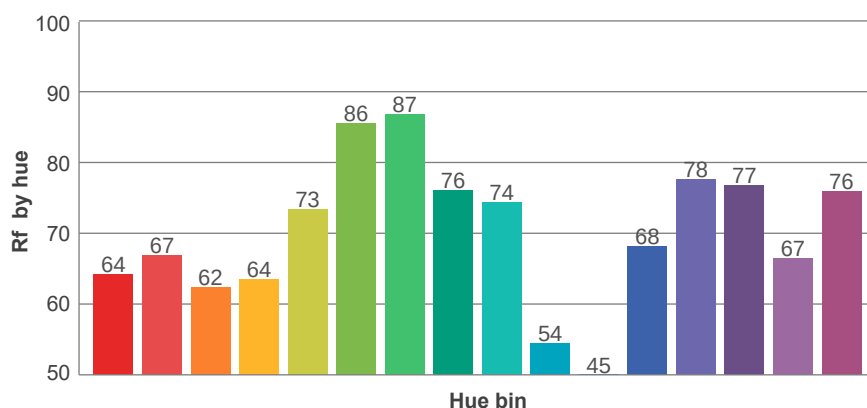
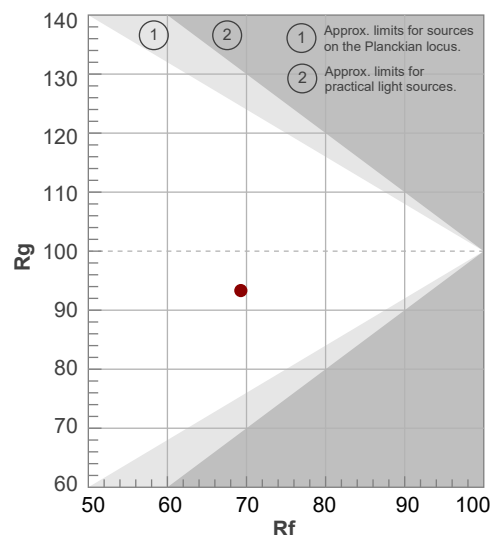
Rf 69.3

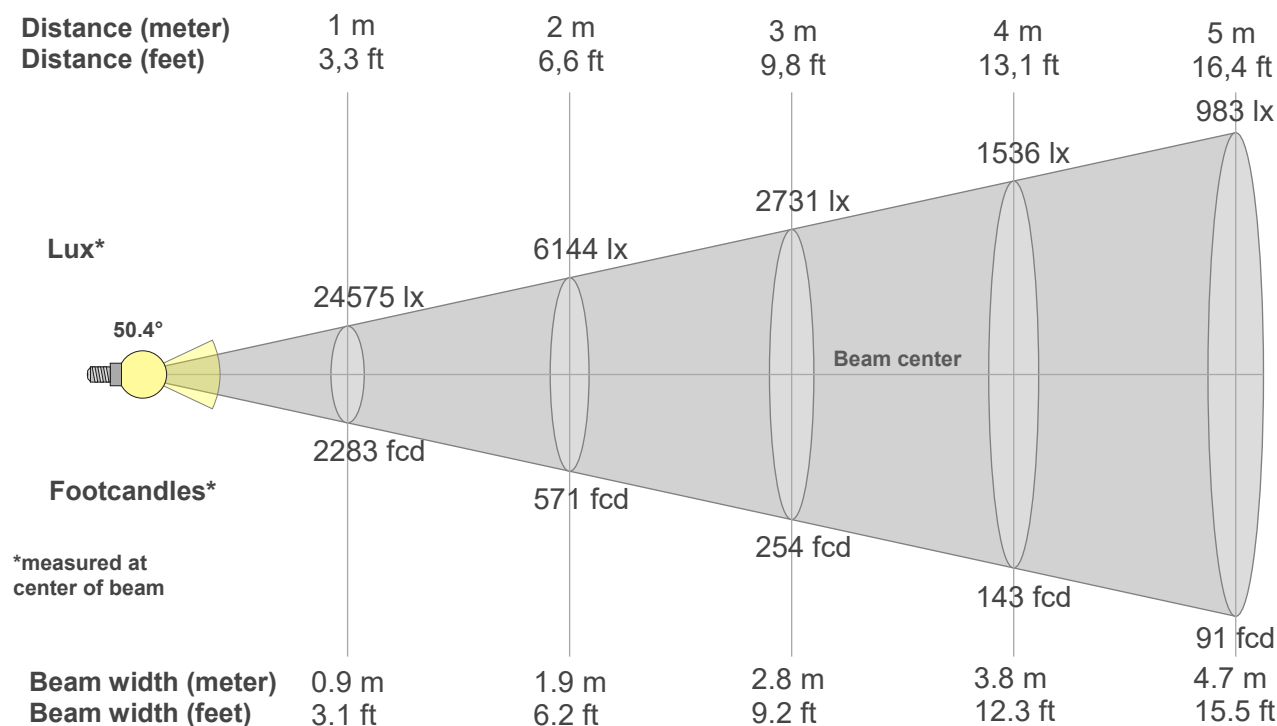
Fidelity index Rf

Rg 93.3

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	64	-17%	-3%
2	67	-13%	10%
3	62	-7%	20%
4	64	3%	20%
5	73	9%	11%
6	86	7%	-2%
7	87	-2%	-7%
8	76	-11%	-6%
9	74	-18%	9%
10	54	-14%	25%
11	45	-3%	28%
12	68	5%	18%
13	78	14%	6%
14	77	9%	-8%
15	67	10%	-25%
16	76	-6%	-11%




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
24575lx	6144lx	2731lx	1536lx	983lx	683lx	502lx	384lx	303lx	246lx	203lx	171lx	145lx	125lx	109lx	96lx	85lx	76lx	68lx	61lx
2283.1fcd	570.8fcd	253.7fcd	142.7fcd	91.3fcd	63.4fcd	46.6fcd	35.7fcd	28.2fcd	22.8fcd	18.9fcd	15.9fcd	13.5fcd	11.6fcd	10.1fcd	8.9fcd	7.9fcd	7fcd	6.3fcd	5.7fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
24.6K	24.7K	24.7K	24.7K	24.6K	24.3K	23.9K	23.4K	22.7K	21.7K	20.5K	18.8K	16.9K	12.4K	2.7K	0.4K	0.3K	0.3K	0.2K	0.2K
100%	100%	101%	101%	100%	99%	97%	95%	93%	88%	83%	77%	69%	51%	11%	2%	1%	1%	1%	1%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
24.6K	24.7K	24.7K	24.7K	24.6K	24.2K	23.9K	23.4K	22.7K	21.6K	20.3K	18.7K	16.6K	11.2K	2.4K	0.4K	0.3K	0.3K	0.2K	0.2K
100%	100%	101%	101%	100%	99%	97%	95%	92%	88%	83%	76%	68%	45%	10%	1%	1%	1%	1%	1%

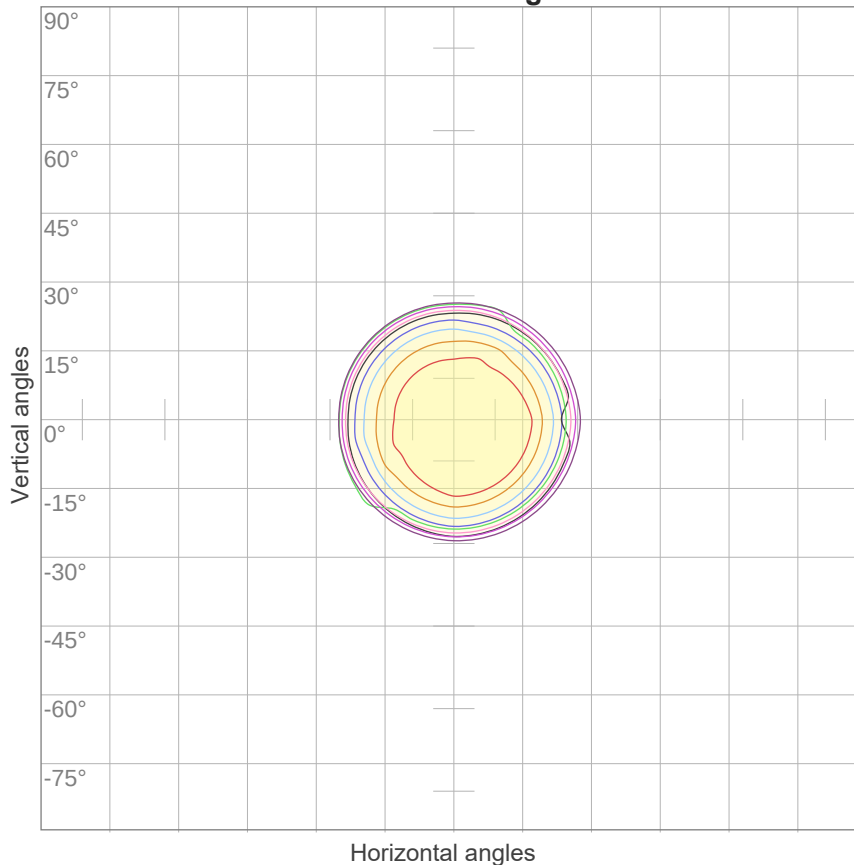
Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
24.6K	24.4K	24.3K	24.1K	23.7K	23.3K	22.8K	22.1K	21.2K	20.0K	18.4K	16.5K	14.2K	8.0K	1.7K	0.3K	0.2K	0.2K	0.1K	0.1K
100%	99%	99%	98%	97%	95%	93%	90%	86%	81%	75%	67%	58%	33%	7%	1%	1%	1%	1%	0%

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
24.6K	24.4K	24.3K	24.1K	23.8K	23.3K	22.8K	22.2K	21.3K	20.1K	18.5K	16.6K	14.3K	8.6K	1.8K	0.3K	0.2K	0.2K	0.1K	0.1K
100%	99%	99%	98%	97%	95%	93%	90%	86%	82%	75%	68%	58%	35%	7%	1%	1%	1%	1%	0%

Beam angle 50°	Field angle 10°	Cutoff angle 2,5°	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50.4°	55.8°	56.7°	96.3%	95.7%

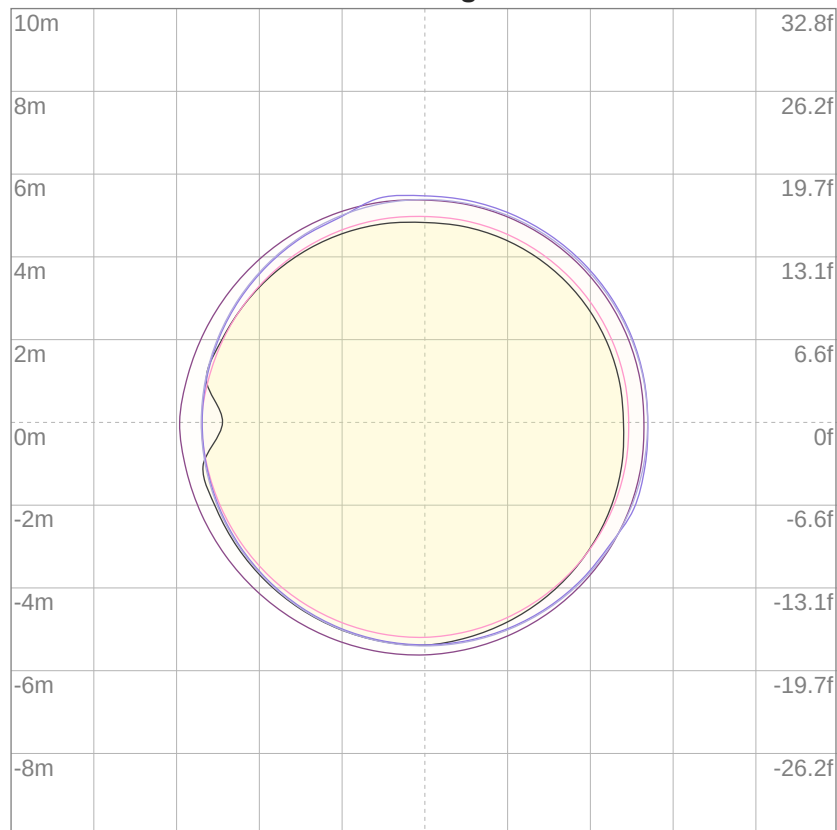
ISO candela diagram


10%	2457 cd
20%	4915 cd
30%	7372 cd
40%	9830 cd
50%	12287 cd
60%	14745 cd
70%	17202 cd
80%	19660 cd
90%	22117 cd

Conditions:

Number of c-planes: 4

Candela at center: 24575 cd

ISO lux diagram


3%	7.37 lx
5%	12.3 lx
10%	24.6 lx
30%	73.7 lx
50%	123 lx

Conditions:

Number of c-planes: 4

Lux at center: 246 lx

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

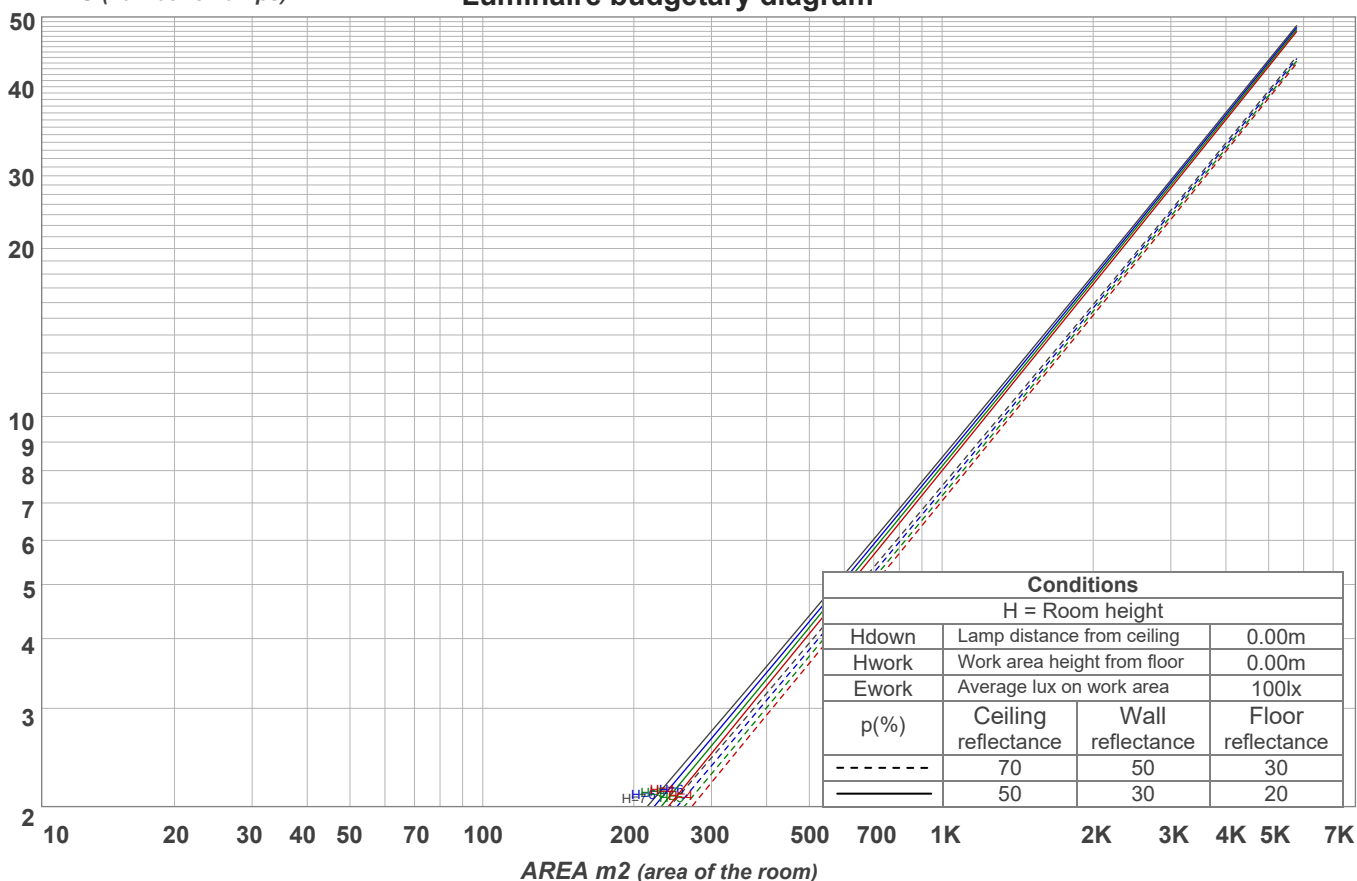
p Ceiling	70	70	50	50	30	70	70	50	50	30
p Walls	50	30	50	30	30	50	30	50	30	30
p Floor	20	20	20	20	20	20	20	20	20	20
Room size X Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	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
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				
Standard table	n/a					n/a				
Correction summand	n/a					n/a				
Corrected glare indices referring to 14013 lm total luminous flux										

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	118	118	118	118	115	115	115	115	110	110	110	104	104	104	99	99	99	97
1	114	111	109	107	111	109	107	105	104	103	101	100	99	98	96	95	94	92
2	109	105	101	98	107	103	100	97	99	97	94	96	94	92	93	91	90	88
3	105	99	95	92	103	98	94	91	95	92	89	92	89	87	89	87	86	84
4	101	94	90	86	99	93	89	85	91	87	84	88	85	83	86	84	82	80
5	97	90	85	81	95	89	84	81	87	83	80	85	82	79	83	80	78	77
6	93	86	81	77	92	85	80	77	83	79	76	82	78	75	80	77	75	73
7	90	82	77	74	88	81	77	73	80	76	73	78	75	72	77	74	72	70
8	86	78	74	70	85	78	73	70	77	72	69	75	72	69	74	71	69	67
9	83	75	70	67	82	75	70	67	74	69	67	73	69	66	72	68	66	65
10	80	72	67	64	79	72	67	64	71	67	64	70	66	64	69	66	63	62

LAMPS (number of lamps)

Luminaire budgetary diagram



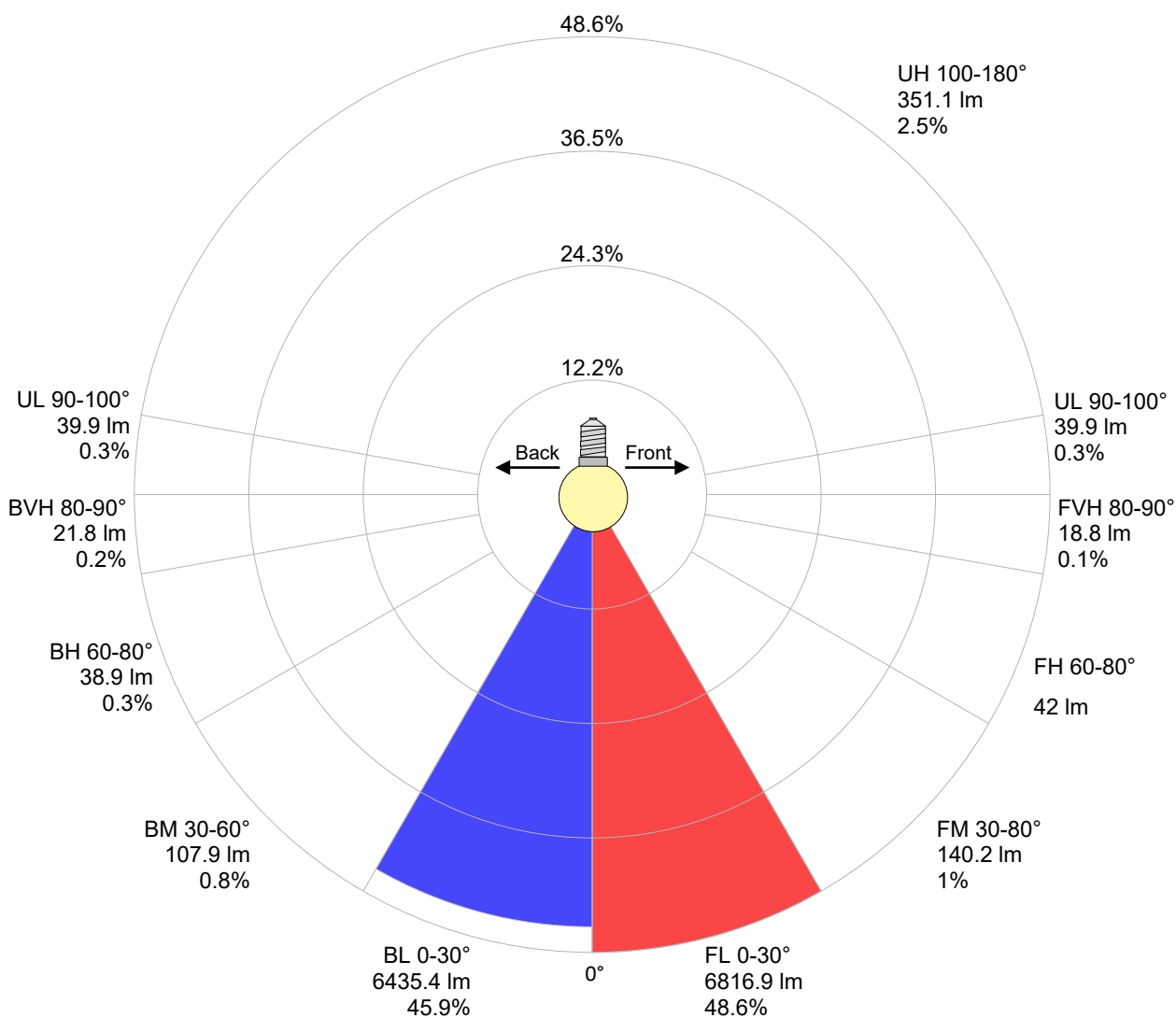
Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
2318 lm	6206 lm	4729 lm	123 lm	74.6 lm	50.1 lm	41.0 lm	40.0 lm	40.7 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
40.0 lm	38.2 lm	44.0 lm	53.7 lm	62.1 lm	62.9 lm	50.8 lm	30.1 lm	9.73 lm

LCS table

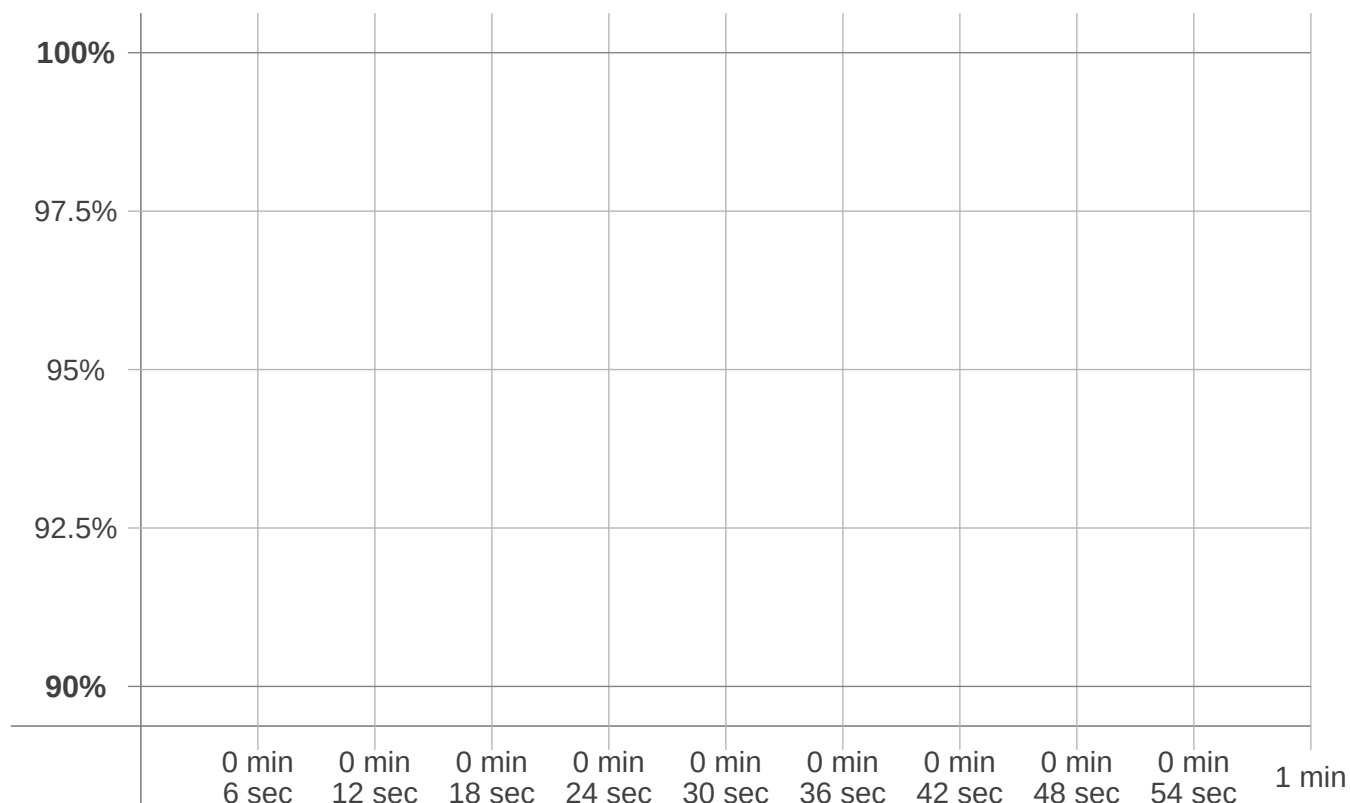
BUG rating:	B5 U3 G1	
Forward light	Lumens	Lumens %
Low(0-30):	6816.9	48.6%
Medium(30-60):	140.2	1%
High(60-80):	42	0.3%
Very high(80-90):	18.8	0.1%
Back light		
Low(0-30):	6435.4	45.9%
Medium(30-60):	107.9	0.8%
High(60-80):	38.9	0.3%
Very high(80-90):	21.8	0.2%
Uplight		
Low(90-100):	39.9	0.3%
High(100-180):	351.1	2.5%

LCS graph



Stabilization

Warmup curve



Warmup result

Warmup time:	n/a
Warmup variation	n/a%

Warmup conditions

Stable period:	n/a
Stable change max:	n/a%
Minimum time:	n/a

Color temperature change

CCT start	CCT change	CCT end
n/a K	n/a K	6566 K

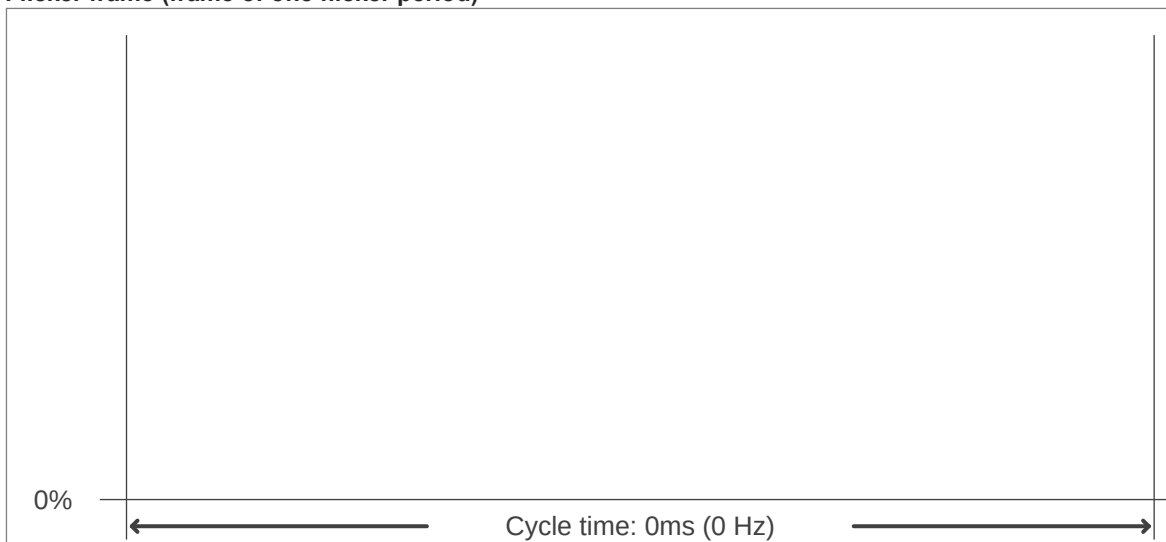
Output change

Output start	Output change	Output end
n/a lm	n/a lm	14013 lm

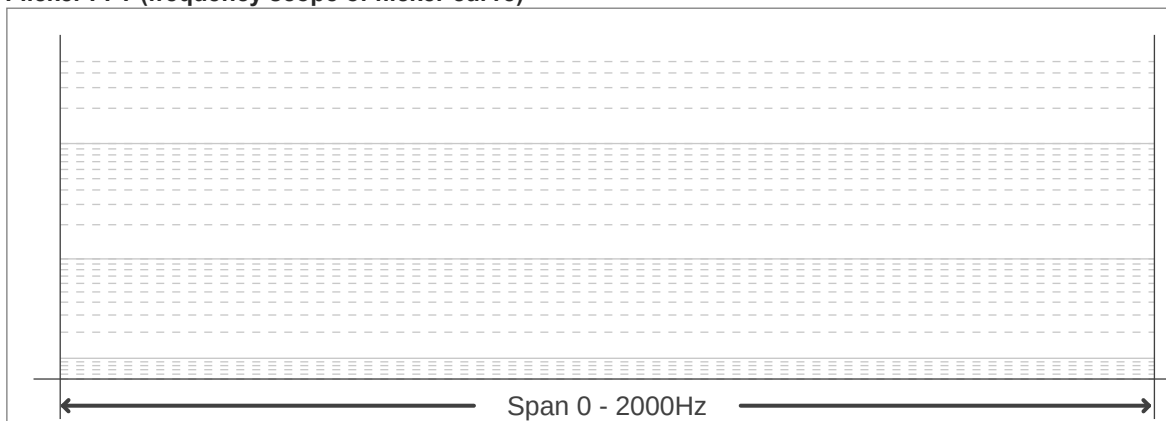
Flicker curve (complete sampled flicker signal)

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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
Flicker percentage:	n/a %
SVM: (Visual flicker)	n/a

Flicker conditions:

Sample rate:	0 samples/second
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