

Light efficiency:

117 Lumen/Watt

Light quality:

CRI: 92,8

Color temperature:

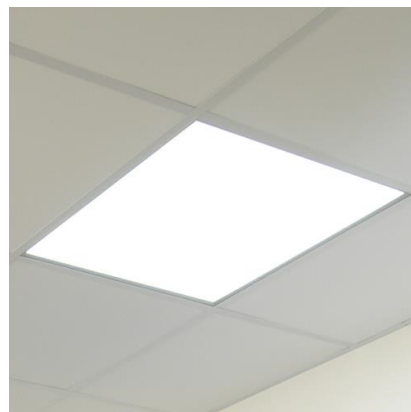
4083 K

Output: 4618 lm

Peak: 2272 cd

Power: 39,5 W

PF: 0,97



Tracking number: [VT231026-005404](https://www.visosystems.com/VT231026-005404)

Product name:

Plata CCT Dipswitch 4000K 40W

Item number:

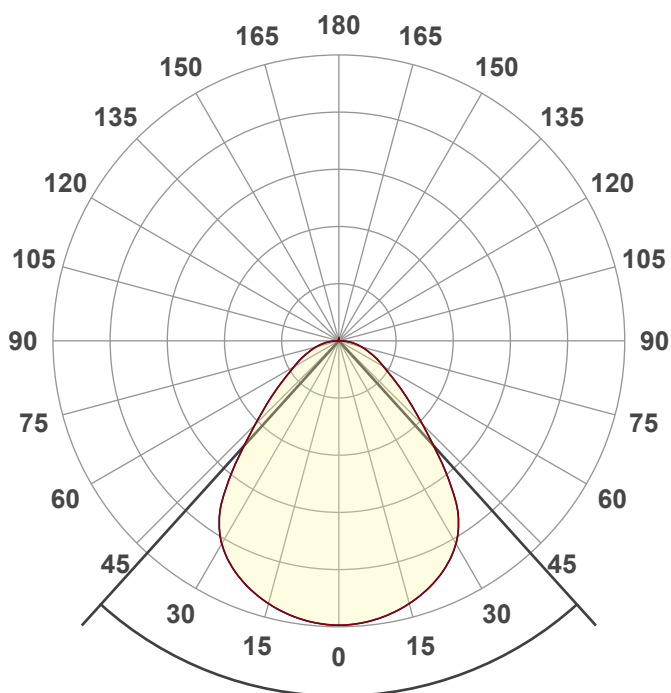
Date and time:

26-10-2023 11:23:52

Description:

Plata 2.11.9093

3.10.0512 Led driver 1000mA



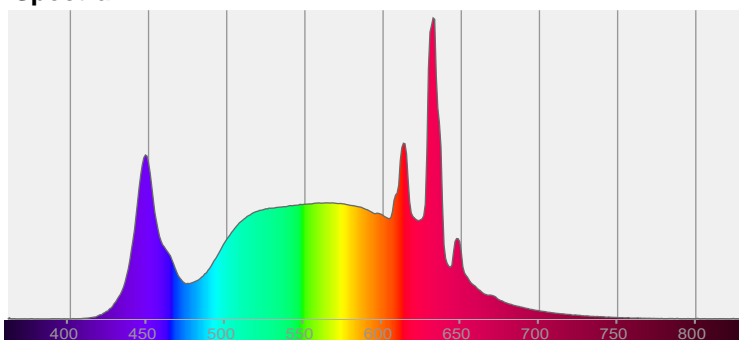
Beam angle

84,2°

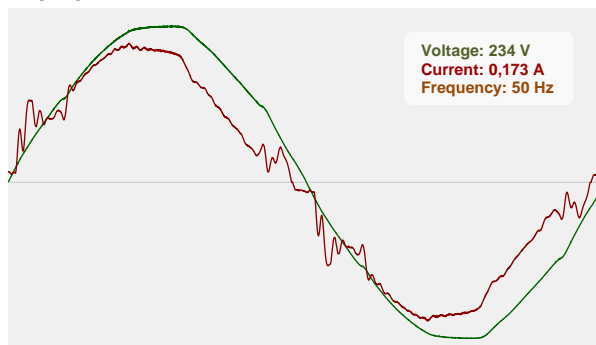


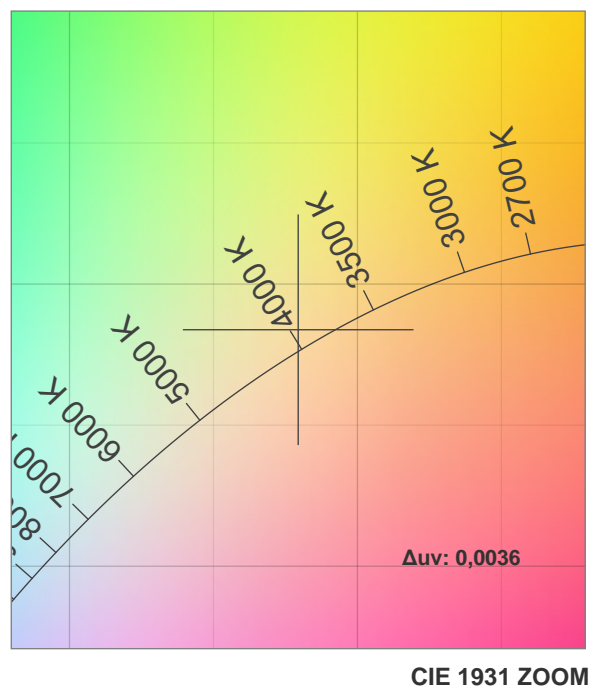
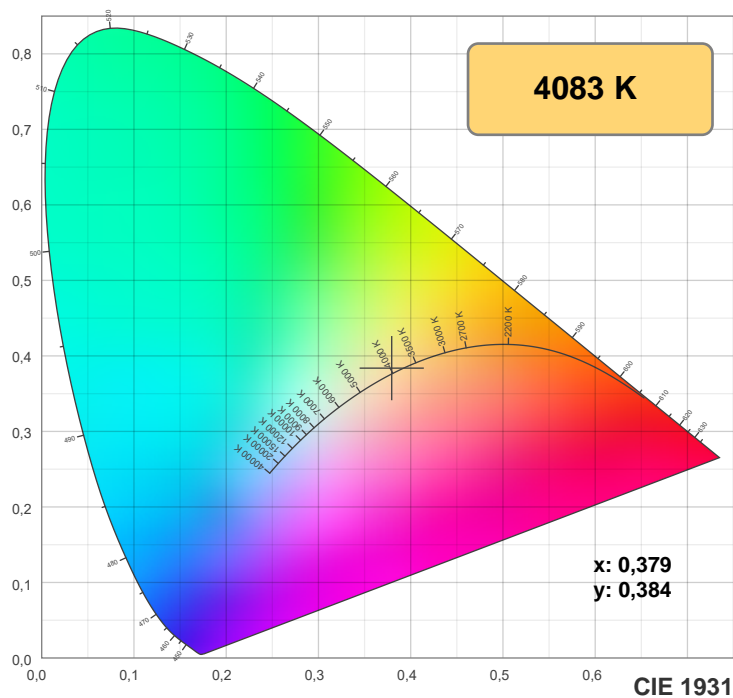
CIE 1931
x: 0,379
y: 0,384

Spectra

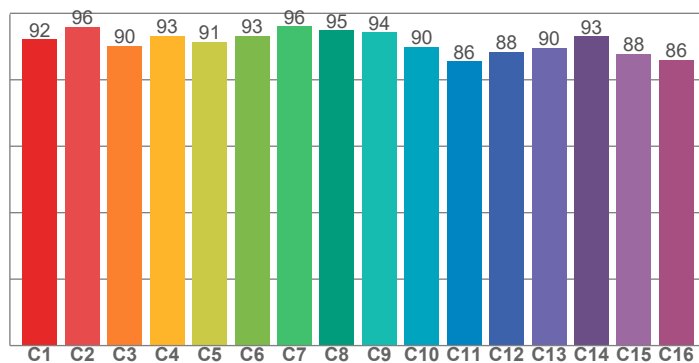


Power

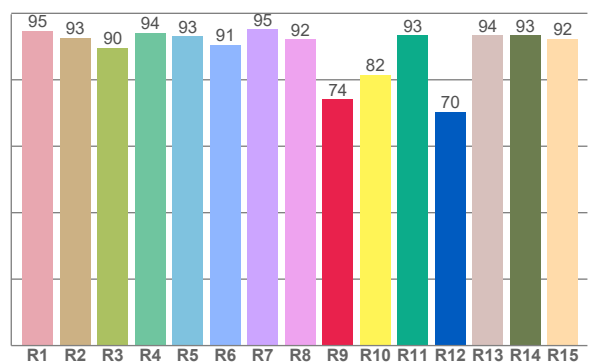




TM-30: 91,2



CRI: 92,8 (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
94,7	92,7	89,7	94,2	93,2	90,6	95,1	92,1	74,1	81,5	93,4	70,4	93,5	93,5	92,4

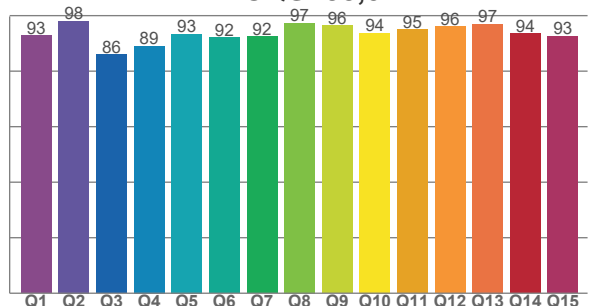
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,2	95,9	90,2	93,2	91,4	93,3	96,1	94,9	94,3	89,8	85,5	88,3	89,6	93,0	87,7	86,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92,8	98,1	86,0	89,1	93,3	92,1	92,4	97,3	96,4	93,7	95,0	96,1	96,9	93,5	92,6

CQS: 93,0



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
4083 K	92,8	74,1	91,2	101,3	93,0	0,379	0,384	0,222	0,336	0,0036

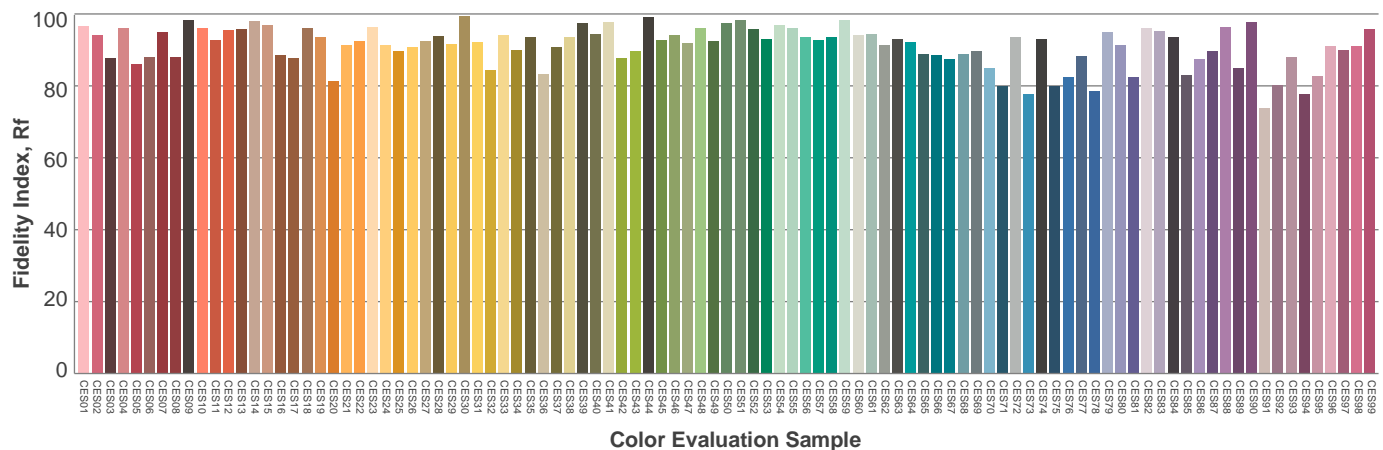
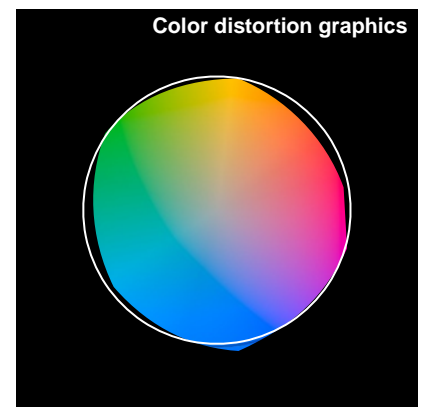
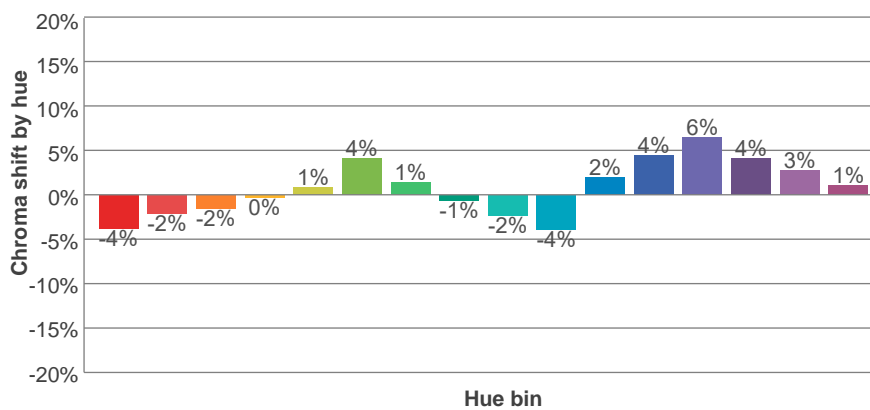
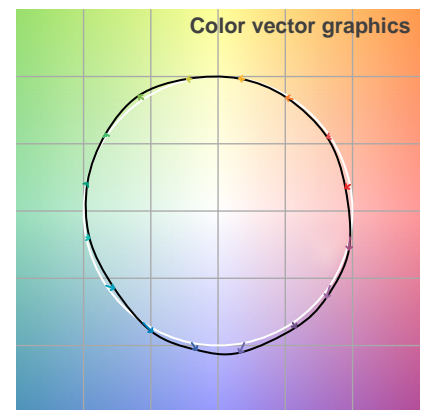
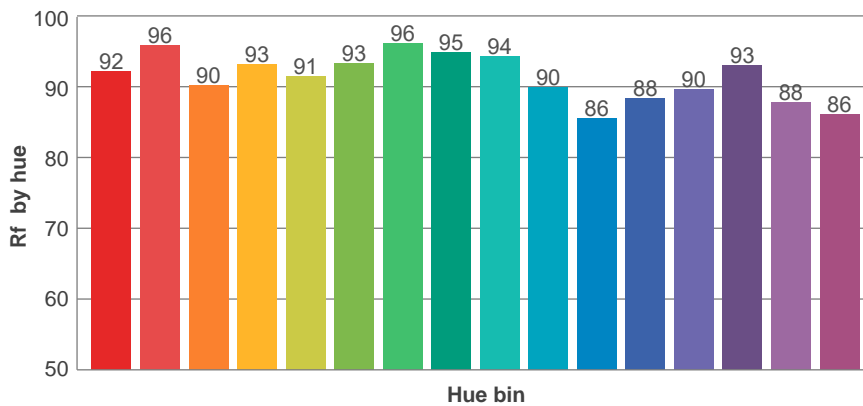
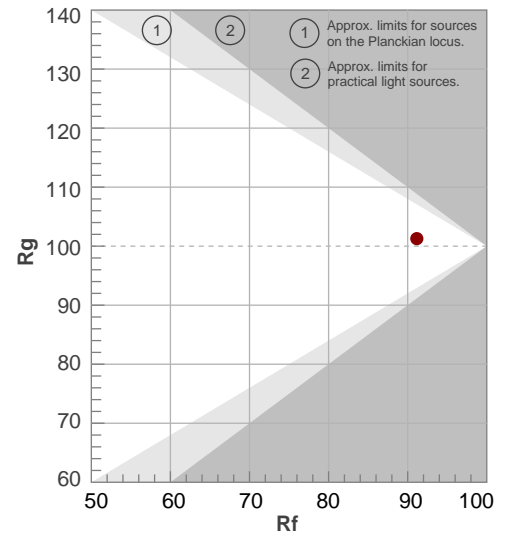
Rf 91,2

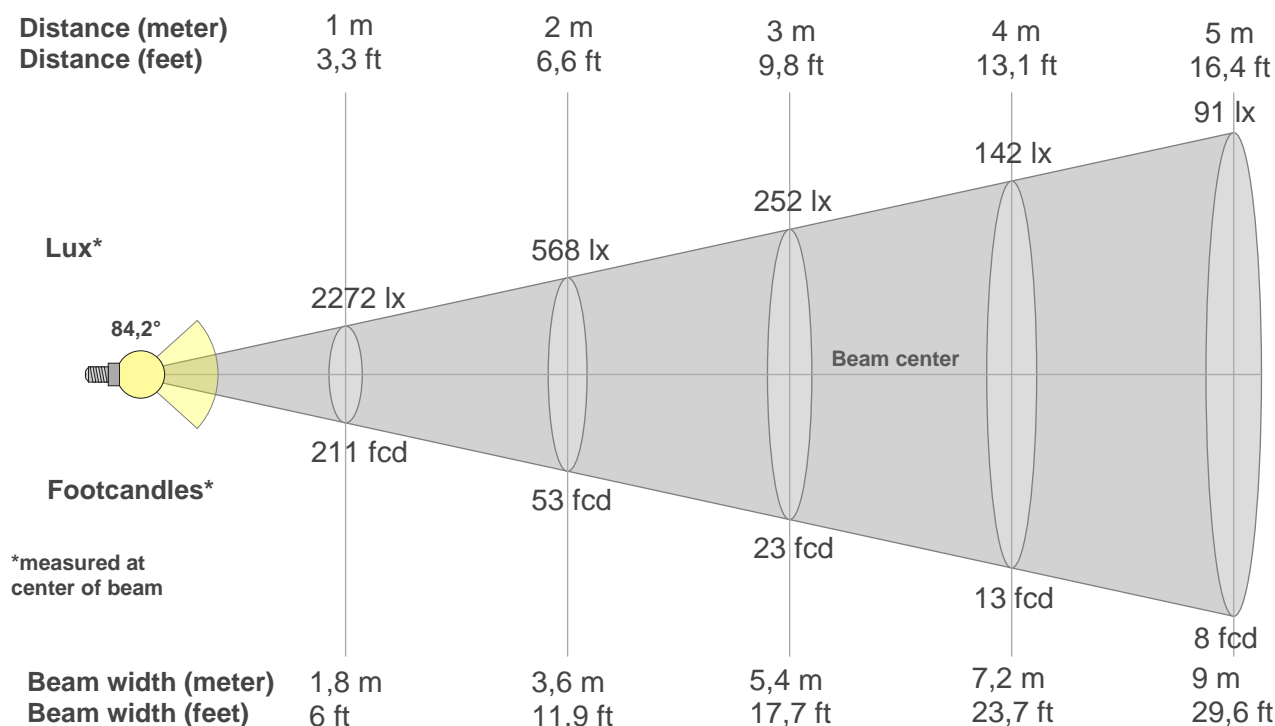
Fidelity index Rf

Rg 101,3

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	92	-4%	-2%
2	96	-2%	0%
3	90	-2%	5%
4	93	0%	4%
5	91	1%	4%
6	93	4%	2%
7	96	1%	-1%
8	95	-1%	-1%
9	94	-2%	1%
10	90	-4%	5%
11	86	2%	9%
12	88	4%	4%
13	90	6%	-5%
14	93	4%	0%
15	88	3%	-9%
16	86	1%	-9%





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
2272lx	568lx	252lx	142lx	91lx	63lx	46lx	35lx	28lx	23lx	19lx	16lx	13lx	12lx	10lx	9lx	8lx	7lx	6lx	6lx
211,1fc	52,8fcd	23,5fcd	13,2fcd	8,4fcd	5,9fcd	4,3fcd	3,3fcd	2,6fcd	2,1fcd	1,7fcd	1,5fcd	1,2fcd	1,1fcd	0,9fcd	0,8fcd	0,7fcd	0,7fcd	0,6fcd	0,5fcd

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
2272	2260	2227	2173	2102	2004	1867	1651	1292	954	715	538	416	330	252	189	129	71	16	2
100%	100%	98%	96%	93%	88%	82%	73%	57%	42%	31%	24%	18%	15%	11%	8%	6%	3%	1%	0%

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
2272	2260	2227	2173	2102	2004	1867	1651	1292	954	715	538	416	330	252	189	129	71	16	2
100%	100%	98%	96%	93%	88%	82%	73%	57%	42%	31%	24%	18%	15%	11%	8%	6%	3%	1%	0%

Intensities in 180° c-plane

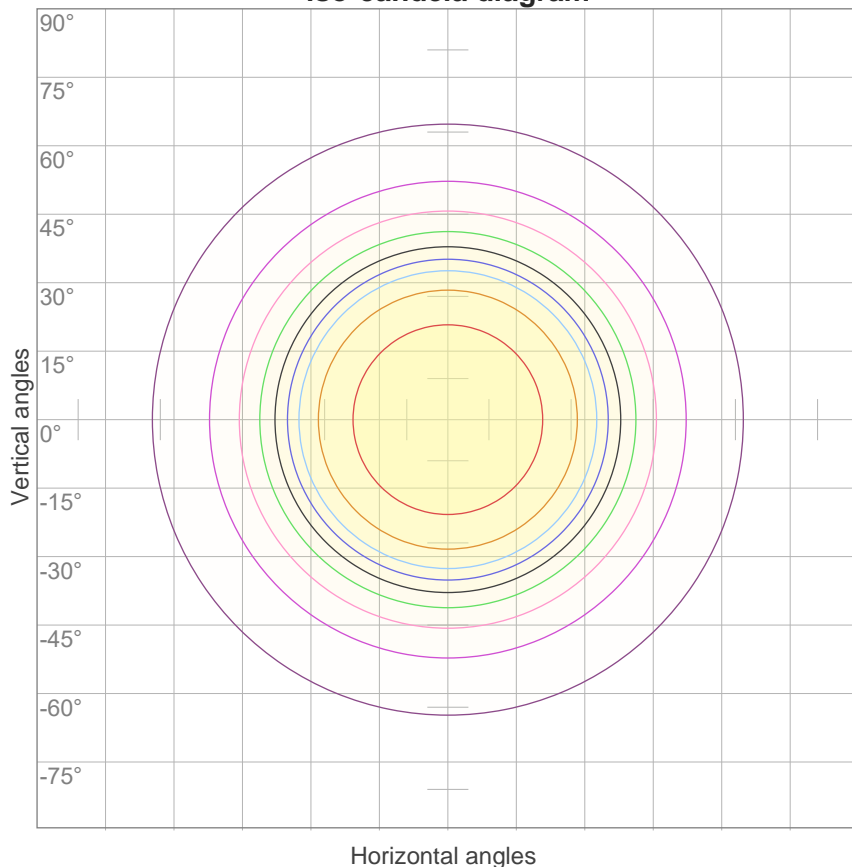
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
2272	2260	2227	2173	2102	2004	1867	1651	1292	954	715	538	416	330	252	189	129	71	16	2
100%	100%	98%	96%	93%	88%	82%	73%	57%	42%	31%	24%	18%	15%	11%	8%	6%	3%	1%	0%

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
2272	2260	2227	2173	2102	2004	1867	1651	1292	954	715	538	416	330	252	189	129	71	16	2
100%	100%	98%	96%	93%	88%	82%	73%	57%	42%	31%	24%	18%	15%	11%	8%	6%	3%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
84,2°	143,9°	172,2°	86,5%	68,8%

iso-candela diagram



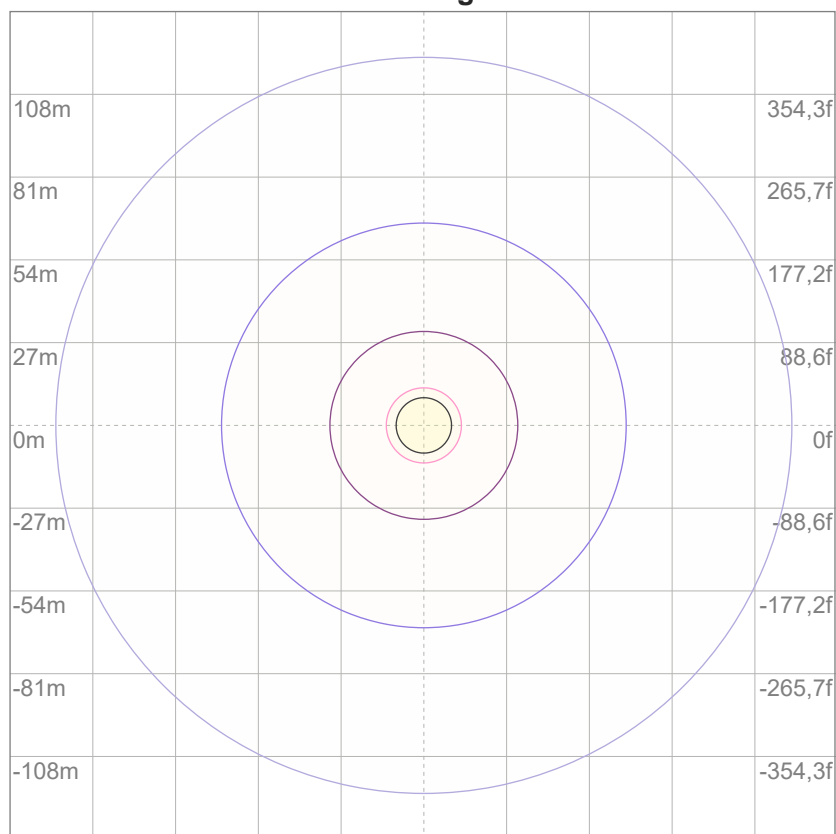
10%	227 cd
20%	454 cd
30%	682 cd
40%	909 cd
50%	1136 cd
60%	1363 cd
70%	1590 cd
80%	1817 cd
90%	2045 cd

Conditions:

Number of c-planes: 8

Candela at center: 2272 cd

iso-lux diagram



3%	0,682 lx
5%	1,14 lx
10%	2,27 lx
30%	6,82 lx
50%	11,4 lx

Conditions:

Number of c-planes: 8

Lux at center: 22,7 lx

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

Glare evaluation according to UGR

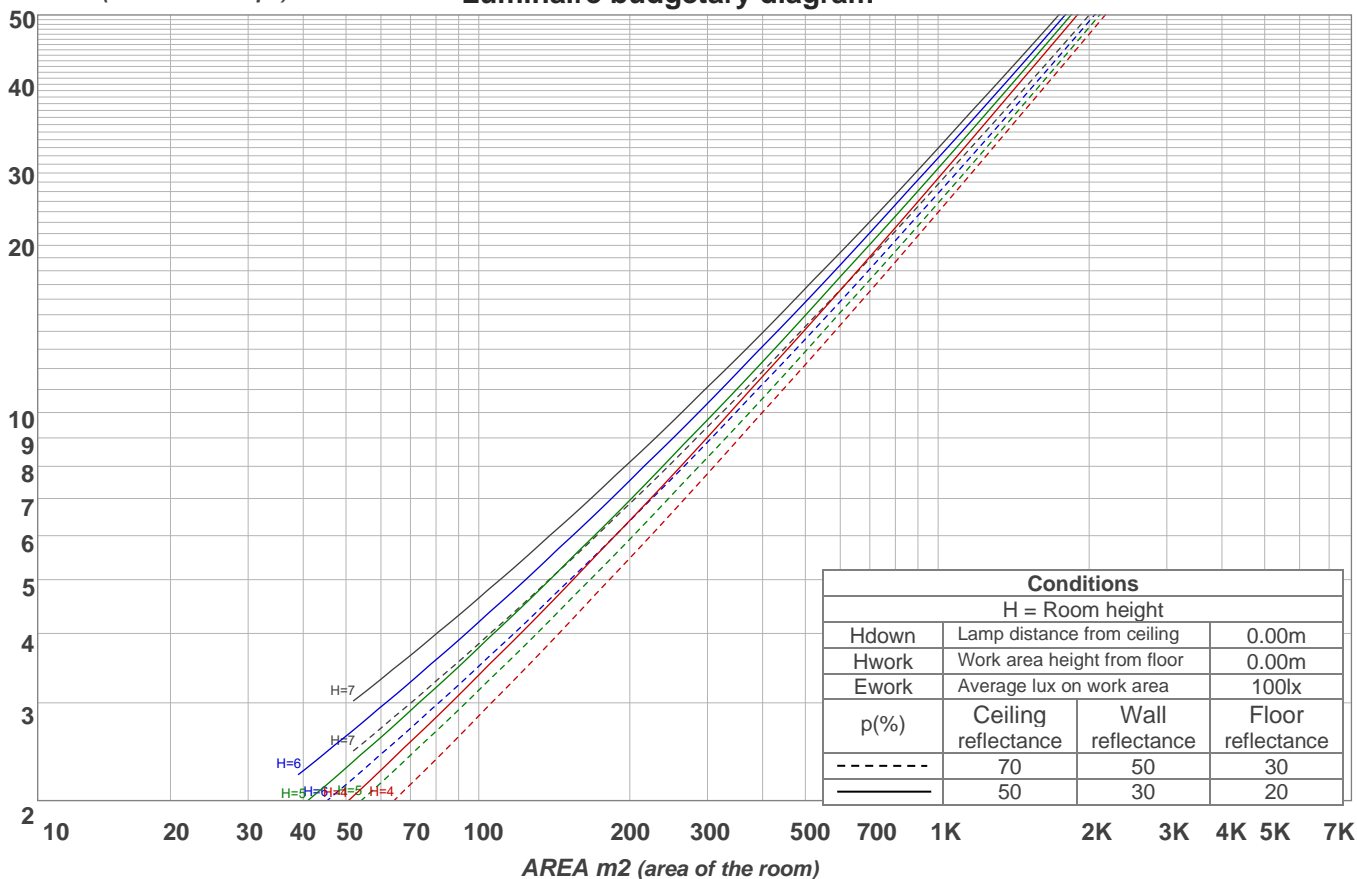
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	15,8	16,8	16,0	17,1	17,3	15,8	16,8	16,0	17,1	17,3
	3H	16,7	17,8	17,1	18,1	18,3	16,7	17,8	17,1	18,1	18,3
	4H	17,3	18,3	17,7	18,6	18,8	17,3	18,3	17,7	18,6	18,8
	6H	17,8	18,7	18,1	19,0	19,4	17,8	18,7	18,1	19,0	19,4
	8H	18,0	18,9	18,3	19,2	19,6	18,0	18,9	18,3	19,2	19,6
	12H	18,1	19,0	18,5	19,3	19,8	18,1	19,0	18,5	19,3	19,8
4H	2H	16,1	17,2	16,5	17,4	17,7	16,1	17,2	16,5	17,4	17,7
	3H	17,4	18,3	17,8	18,6	19,1	17,4	18,3	17,8	18,6	19,1
	4H	18,0	18,8	18,5	19,2	19,8	18,0	18,8	18,5	19,2	19,8
	6H	18,7	19,4	19,2	19,8	20,2	18,7	19,4	19,2	19,8	20,2
	8H	18,9	19,6	19,5	20,0	20,4	18,9	19,6	19,5	20,0	20,4
	12H	19,2	19,7	19,7	20,2	20,6	19,2	19,7	19,7	20,2	20,6
8H	4H	18,3	19,0	18,8	19,4	19,8	18,3	19,0	18,8	19,4	19,8
	6H	19,1	19,6	19,6	20,1	20,7	19,1	19,6	19,6	20,1	20,7
	8H	19,5	20,0	20,1	20,5	21,2	19,5	20,0	20,1	20,5	21,2
	12H	19,9	20,3	20,5	20,8	21,4	19,9	20,3	20,5	20,8	21,4
12H	4H	18,3	18,9	18,8	19,3	19,8	18,3	18,9	18,8	19,3	19,8
	6H	19,2	19,7	19,8	20,2	20,9	19,2	19,7	19,8	20,2	20,9
	8H	19,7	20,0	20,3	20,6	21,2	19,7	20,0	20,3	20,6	21,2
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,2 / -0,2					0,2 / -0,2				
S = 1.5H		0,4 / -0,4					0,4 / -0,4				
S = 2.0H		0,9 / -0,7					0,9 / -0,7				
CIE 117-1995. Corrected glare indices referring to 4618 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	94	85	77	72	91	83	76	71	80	74	70	77	73	68	75	71	67	65
4	87	76	68	62	85	75	68	62	72	66	61	70	65	60	68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	54	48	59	53	48	57	52	48	46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	62	49	42	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31

LAMPS (number of lamps)

Luminaire budgetary diagram



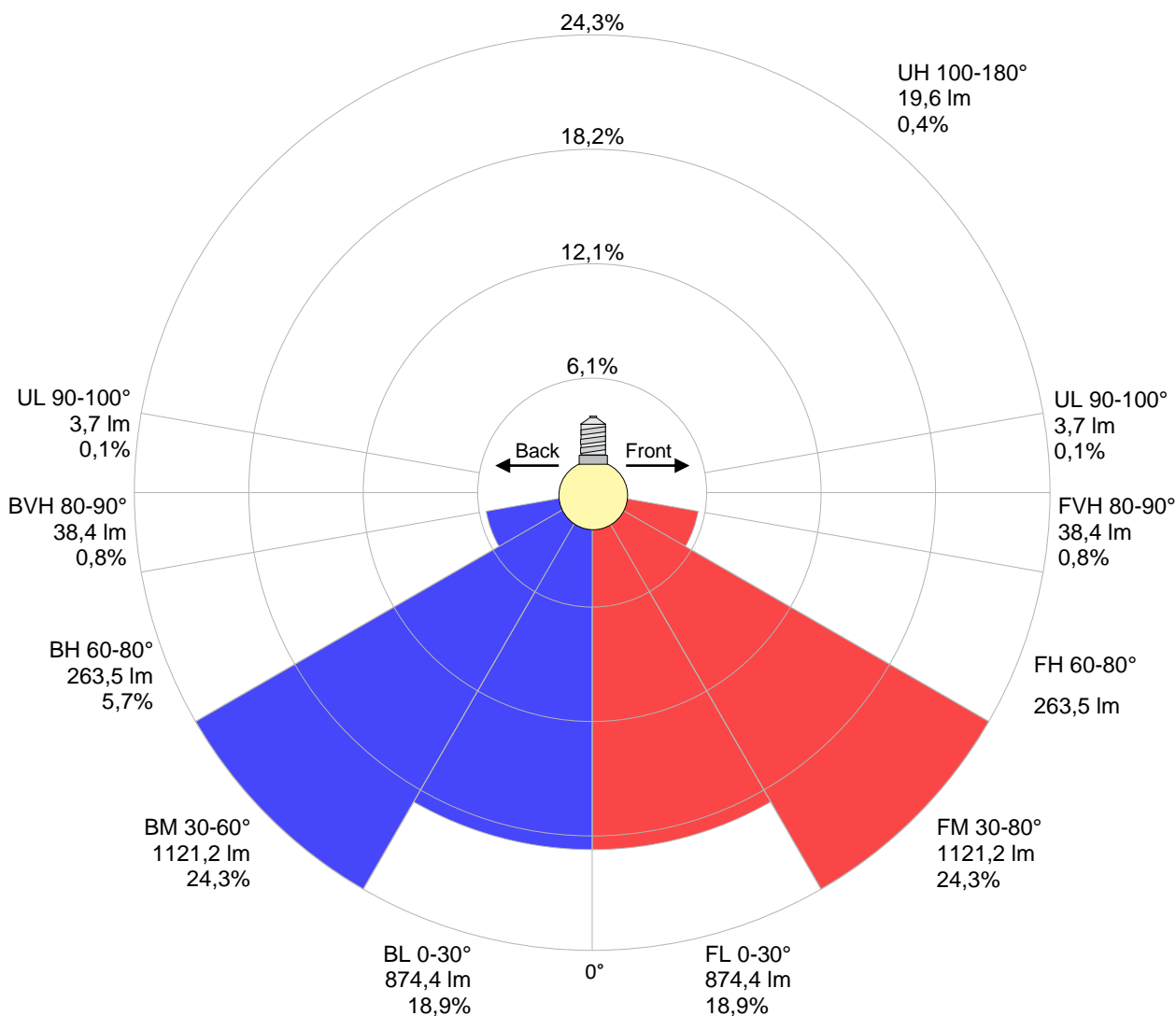
Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	613 lm	924 lm	1010 lm	742 lm	490 lm	325 lm	200 lm	77,9 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
2,45 lm	2,51 lm	3,16 lm	3,35 lm	3,39 lm	2,83 lm	2,21 lm	1,61 lm	0,527 lm

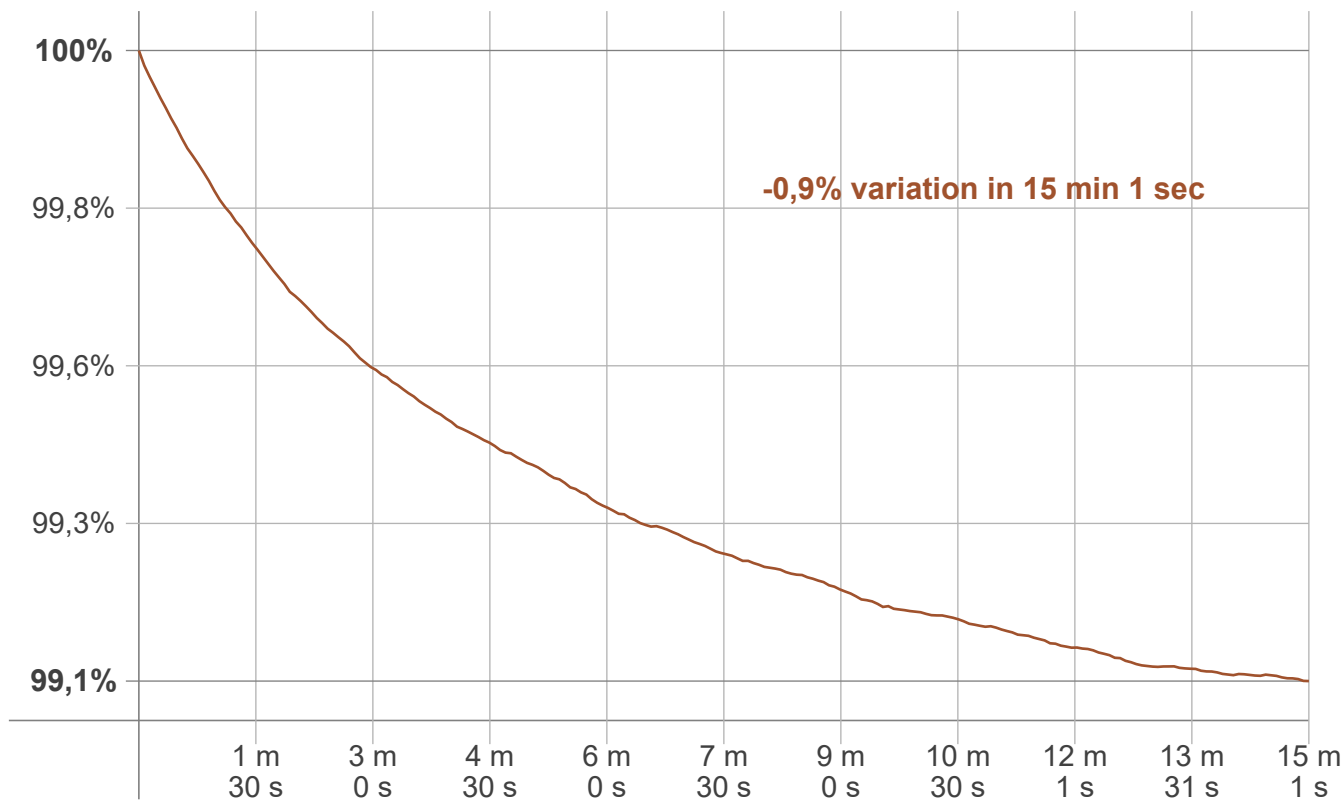
LCS table

BUG rating:	B2 U2 G1	
Forward light	Lumens	Lumens %
Low(0-30):	874,4	18,9%
Medium(30-60):	1121,2	24,3%
High(60-80):	263,5	5,7%
Very high(80-90):	38,4	0,8%
Back light		
Low(0-30):	874,4	18,9%
Medium(30-60):	1121,2	24,3%
High(60-80):	263,5	5,7%
Very high(80-90):	38,4	0,8%
Uplight		
Low(90-100):	3,7	0,1%
High(100-180):	19,6	0,4%

LCS graph



Warmup curve



Warmup result

Warmup time:	Lamp stabilized in 15 min 1 sec
Warmup variation	-0,9%

Warmup conditions

Stable period:	15 min
Stable change max:	2,0%
Minimum time:	15 min

Color temperature change

CCT start	CCT change	CCT end
4089 K	-6 K	4083 K

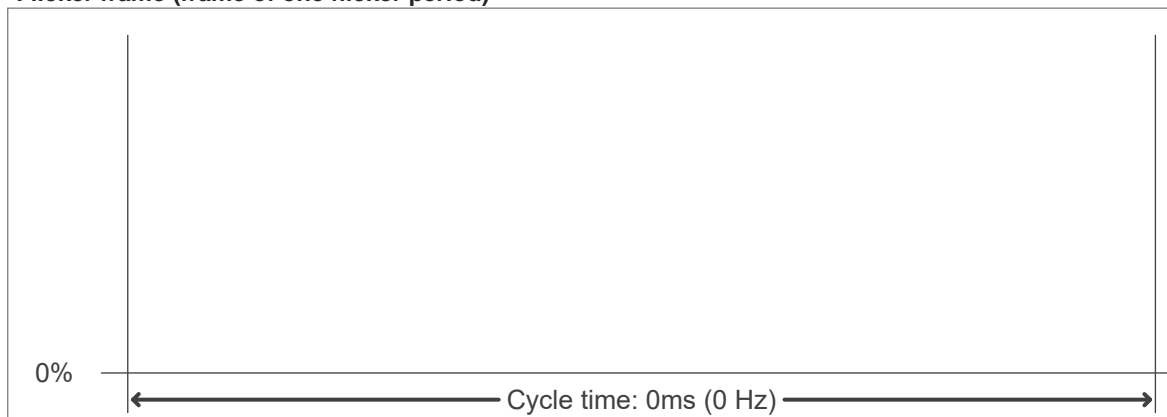
Output change

Output start	Output change	Output end
4656 lm	-38 lm	4618 lm

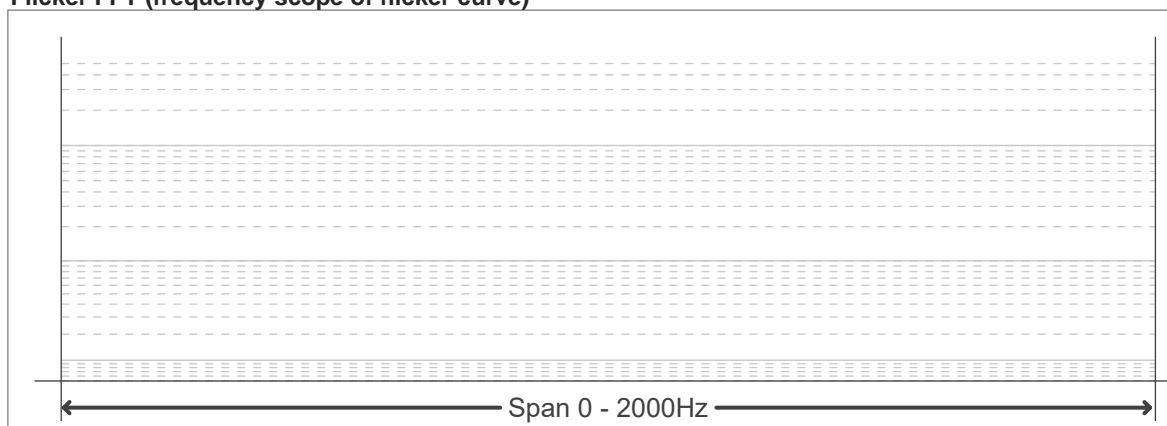
Flicker curve (complete sampled flicker signal)



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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