

OPTIQUE

Light efficiency:



Light quality:



Color temperature:

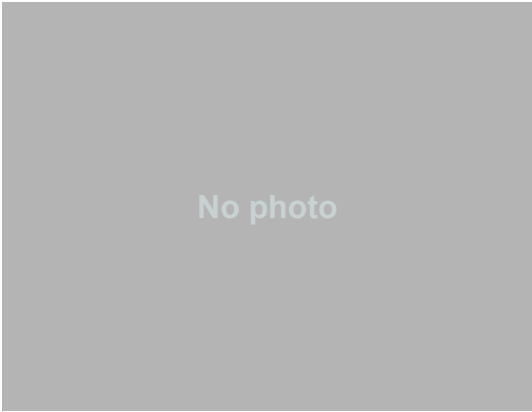


Output: 194 lm

Peak: 113 cd

Power: 0.00 W

PF: n/a



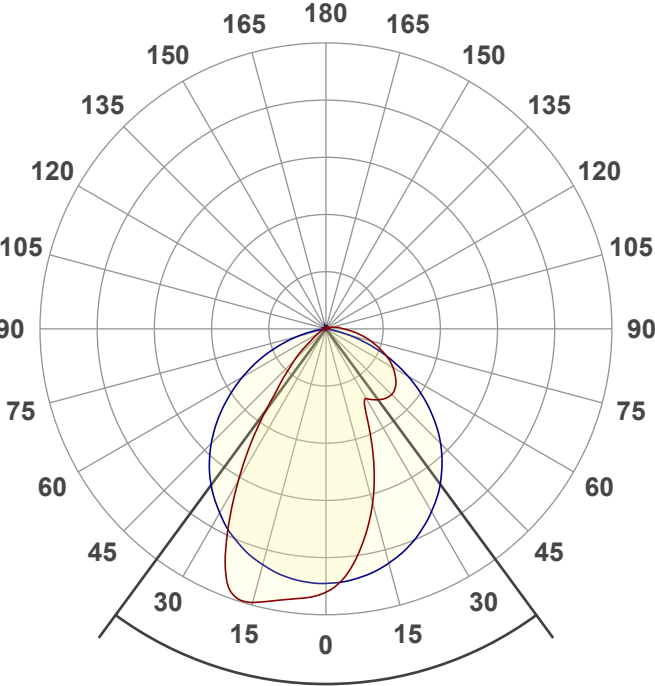
Tracking number: [n/a](#)

Product name:
OP-REC-PRFM2 RGBW5-RGBW

Item number:
OP-01-12MM-D-1500LM-24V-4000K-IN

Date and time:
6/12/2026 10:59:15 AM

Description:

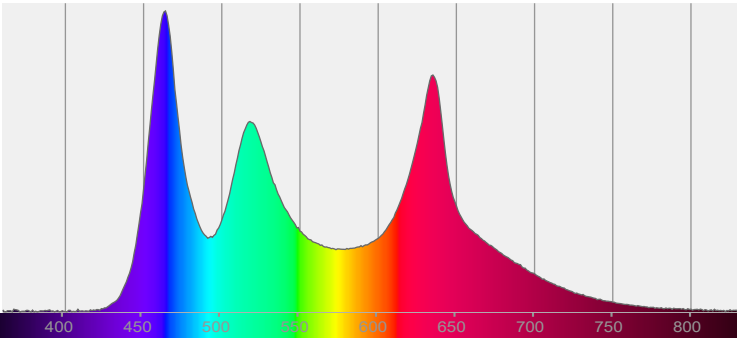


Beam angle **72.6°**

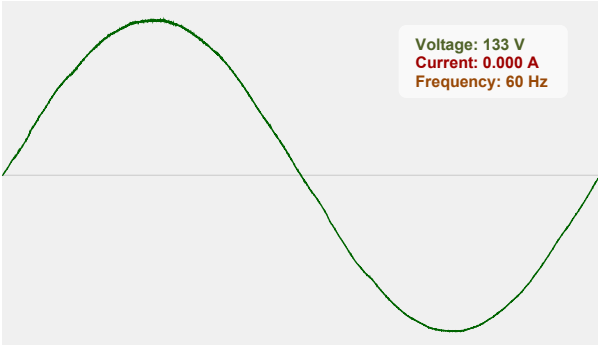


CIE 1931
x: 0.314
y: 0.323

Spectra

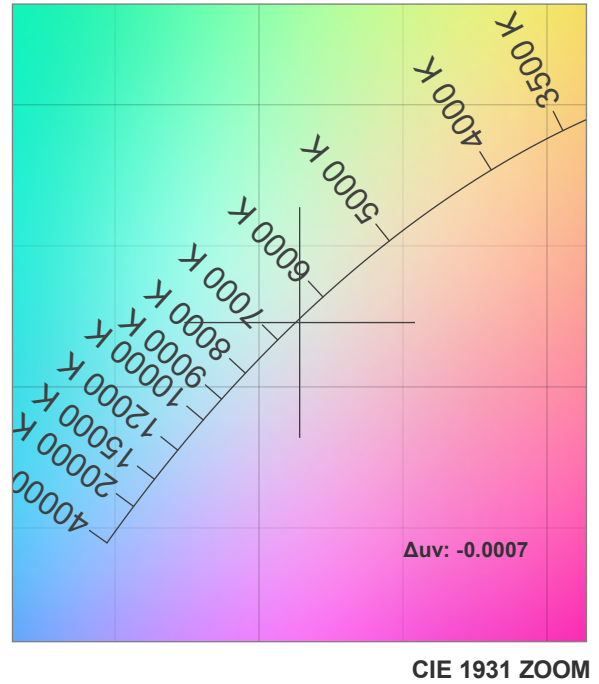
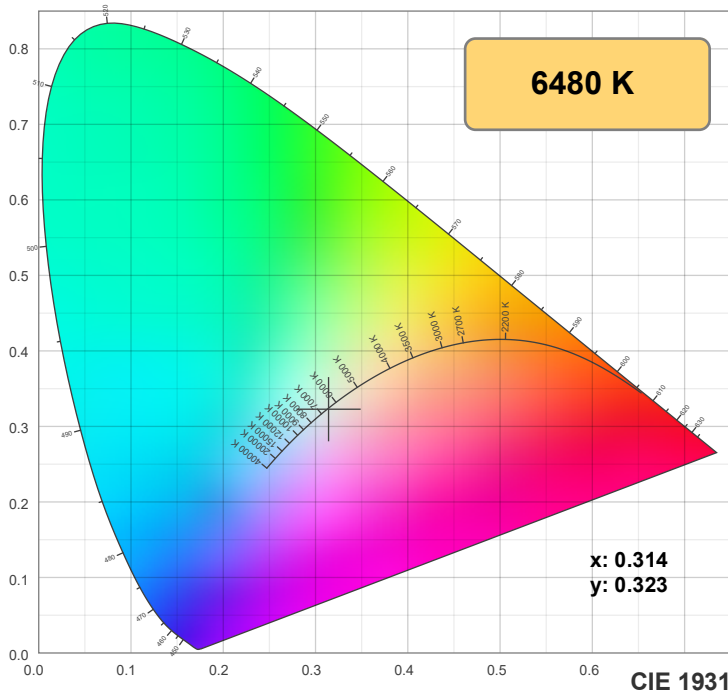


Power



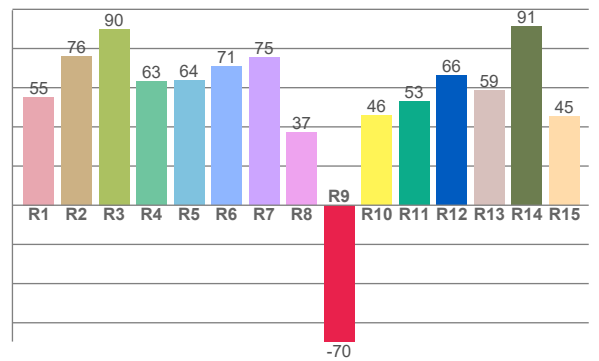
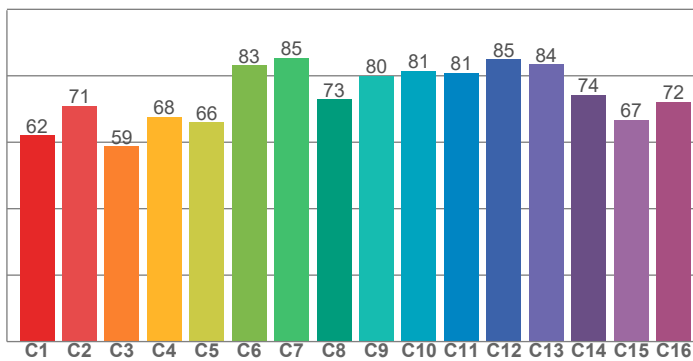
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Color details



TM-30: 73.6

CRI: 66.4 (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
55.1	76.0	89.9	63.1	63.7	70.9	75.5	37.1	-69.6	45.8	52.8	66.2	58.6	91.3	45.4

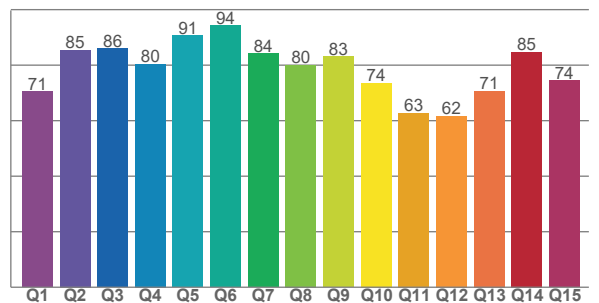
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
62.1	70.9	58.8	67.6	66.0	83.2	85.4	72.9	80.0	81.5	80.9	85.0	83.5	74.3	66.8	72.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
70.6	85.4	86.0	80.5	90.7	94.2	84.3	80.1	83.0	73.5	62.8	61.8	70.7	84.8	74.4

CQS: 76.9



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
6480 K	66.4	-69.6	73.6	105.3	76.9	0.314	0.323	0.201	0.310	-0.0007

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TM-30 details

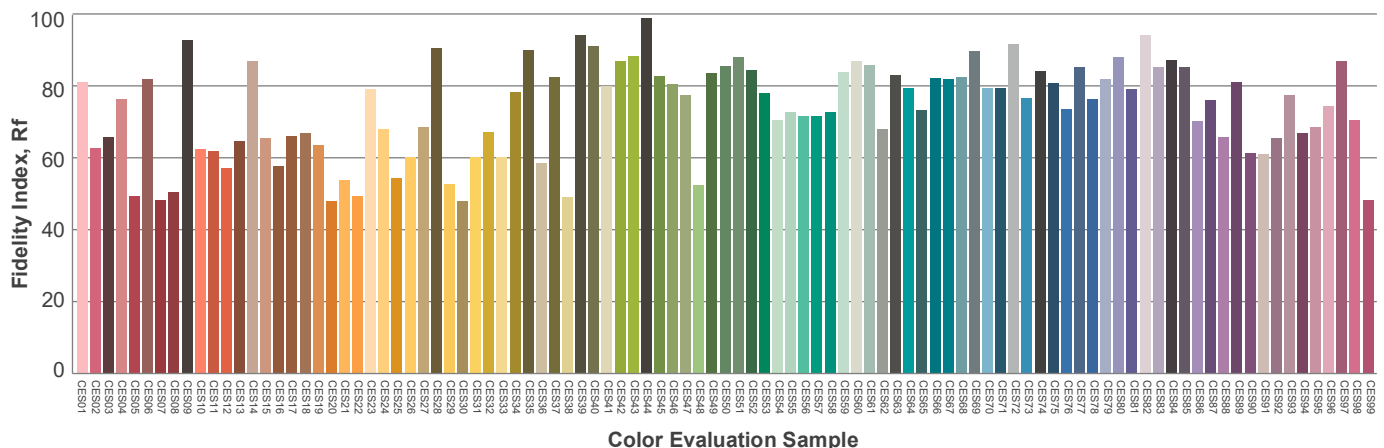
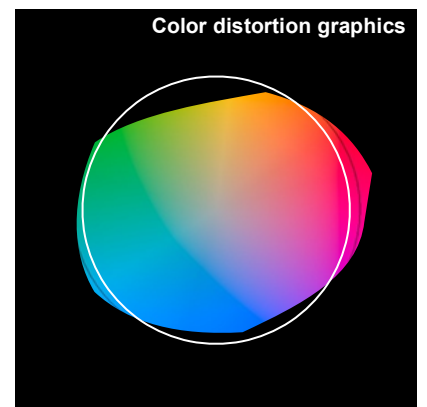
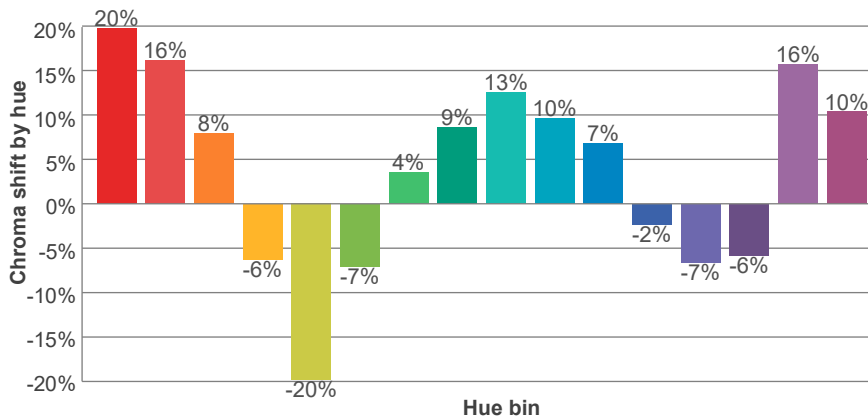
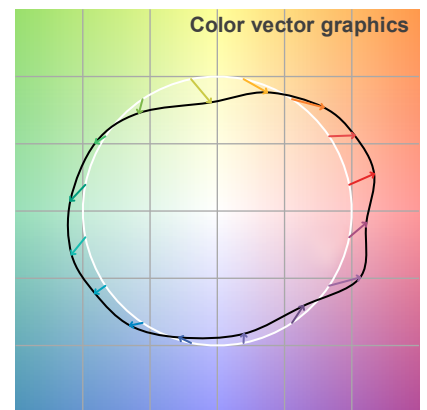
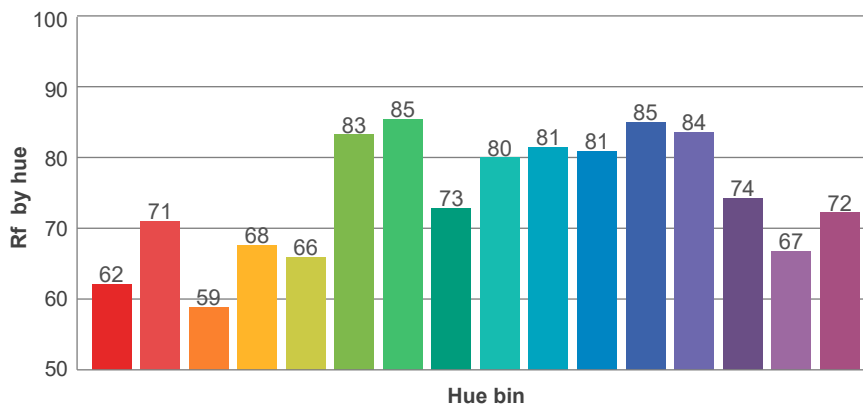
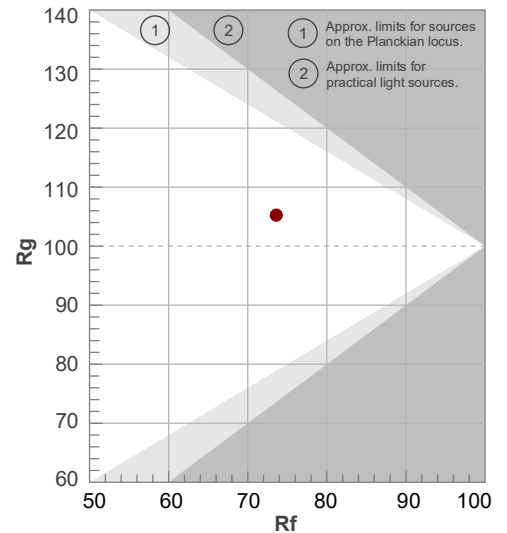
Rf 73.6

Fidelity index Rf

Rg 105.3

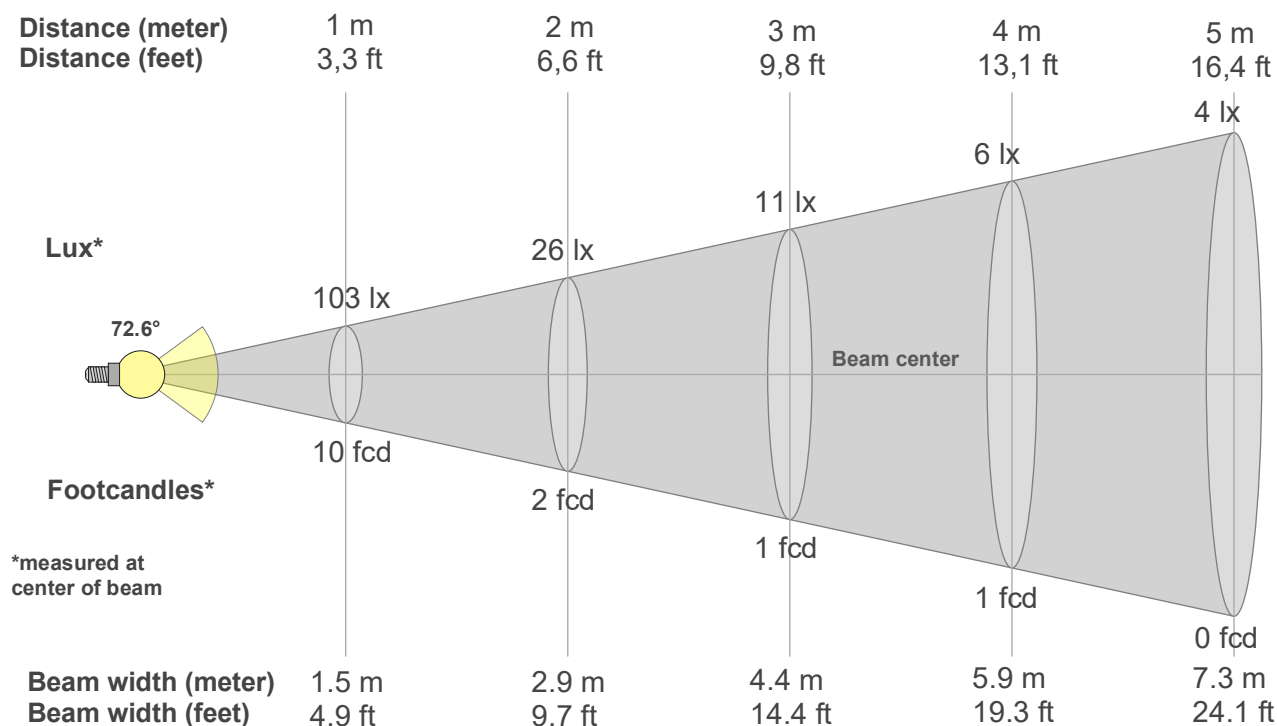
Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	62	20%	4%
2	71	16%	-10%
3	59	8%	-23%
4	68	-6%	-19%
5	66	-20%	-11%
6	83	-7%	8%
7	85	4%	8%
8	73	9%	14%
9	80	13%	10%
10	81	10%	0%
11	81	7%	-7%
12	85	-2%	-9%
13	84	-7%	2%
14	74	-6%	14%
15	67	16%	18%
16	72	10%	13%



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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
103lx	26lx	11lx	6lx	4lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx
9.6fcd	2.4fcd	1.1fcd	0.6fcd	0.4fcd	0.3fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

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°
103	97	85	71	55	39	32	34	36	37	36	34	31	27	23	18	14	10	7	5
100%	94%	83%	69%	53%	37%	31%	33%	35%	36%	35%	33%	30%	26%	22%	18%	14%	10%	7%	5%

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°
103	100	99	96	93	89	84	78	71	64	56	47	38	28	18	9	2	0	0	0
100%	97%	95%	93%	90%	86%	81%	75%	69%	62%	54%	45%	36%	27%	18%	9%	2%	0%	0%	0%

Intensities in 180° c-plane

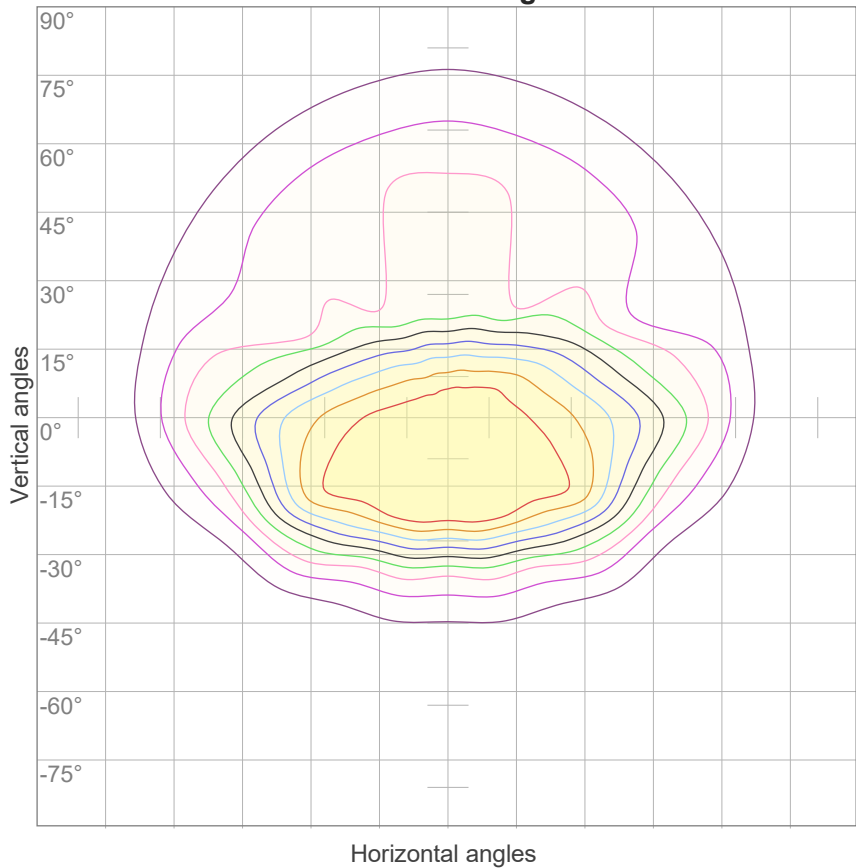
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
103	107	109	112	110	93	69	46	28	18	10	6	3	2	2	1	0	0	0	0
100%	104%	106%	108%	107%	90%	67%	45%	27%	17%	9%	5%	3%	2%	2%	1%	0%	0%	0%	0%

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°
103	100	99	97	93	89	84	78	72	64	56	47	38	29	20	12	5	1	1	0
100%	97%	96%	94%	90%	86%	81%	76%	69%	62%	54%	46%	37%	28%	20%	12%	5%	1%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
72.6°	137.9°	163.6°	83.2%	64.1%

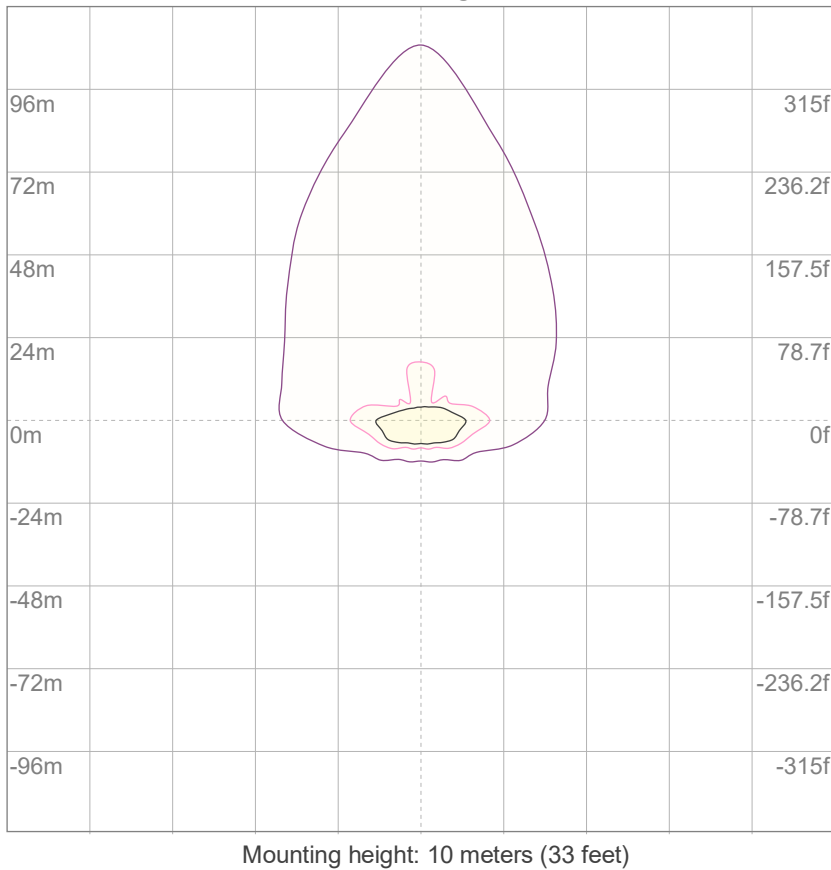
iso-candela diagram



10%	10 cd
20%	21 cd
30%	31 cd
40%	41 cd
50%	52 cd
60%	62 cd
70%	72 cd
80%	83 cd
90%	93 cd

Conditions:
Number of c-planes: 12
Candela at center: 103 cd

iso-lux diagram



3%	31.0m lx
5%	51.7m lx
10%	0.103 lx
30%	0.310 lx
50%	0.517 lx

Conditions:
Number of c-planes: 12
Lux at center: 1.03 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
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 194 lm total luminous flux										

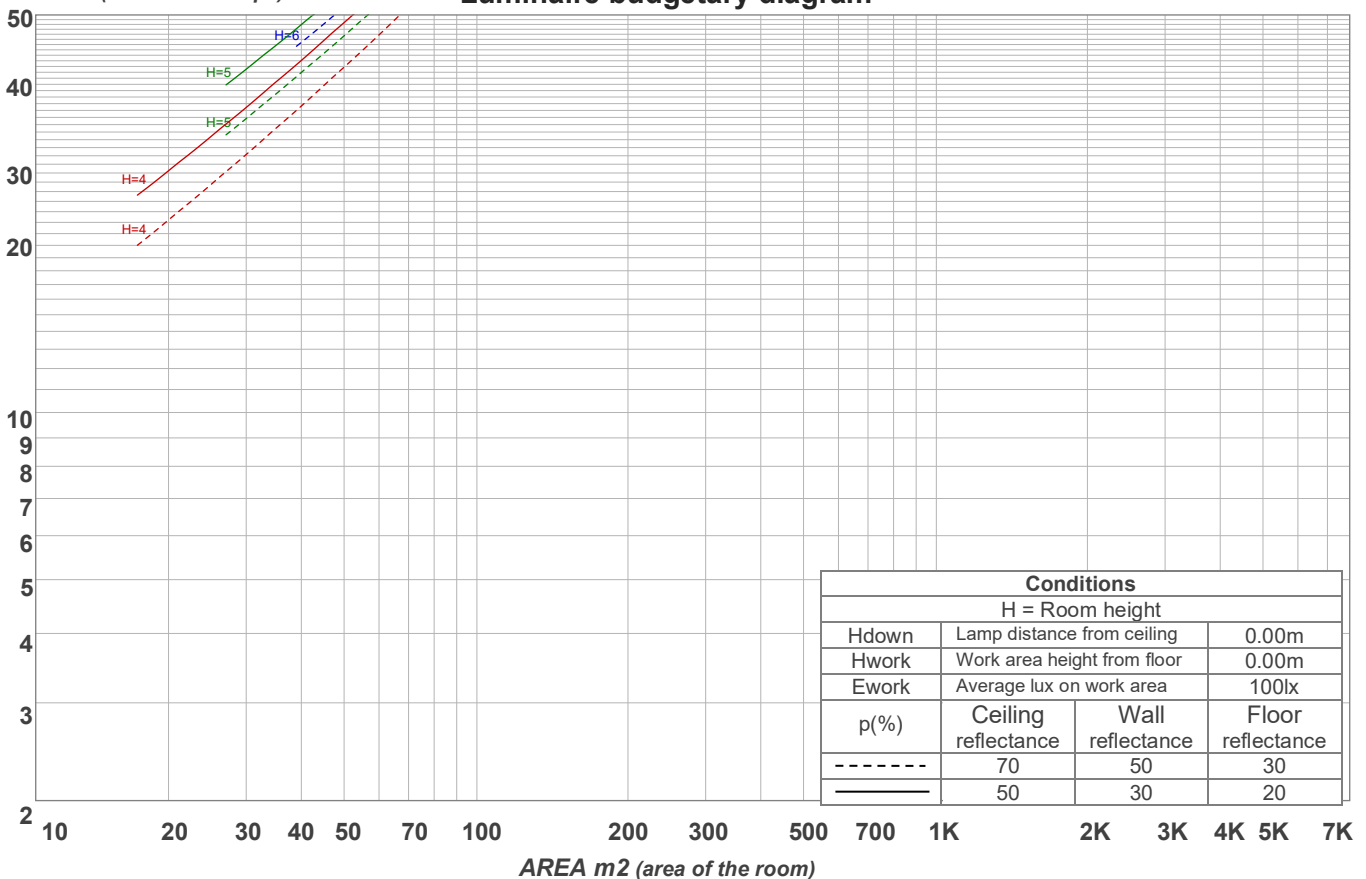
Viso Systems Aps – Copenhagen, Denmark – www.visosystems.com

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	110	110	110	105	105	105	100	100	100	98
1	109	105	101	98	106	103	99	96	98	95	93	94	91	89	90	88	86	84
2	101	93	87	82	98	91	86	81	87	83	79	84	80	77	81	77	75	72
3	93	83	76	70	90	82	75	69	78	73	68	75	71	67	73	69	65	63
4	86	75	67	61	84	74	66	60	71	65	59	68	63	58	66	61	57	55
5	80	68	60	54	78	67	59	53	64	58	53	62	56	52	60	55	51	49
6	74	62	54	48	72	61	53	48	59	52	47	57	51	46	55	50	46	44
7	69	57	49	43	67	56	48	43	54	47	42	53	47	42	51	46	42	40
8	65	52	44	39	63	52	44	39	50	43	39	49	43	38	47	42	38	36
9	61	48	41	36	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	45	38	33	56	44	37	33	43	37	32	42	36	32	41	36	32	30

LAMPS (number of lamps)

Luminaire budgetary diagram



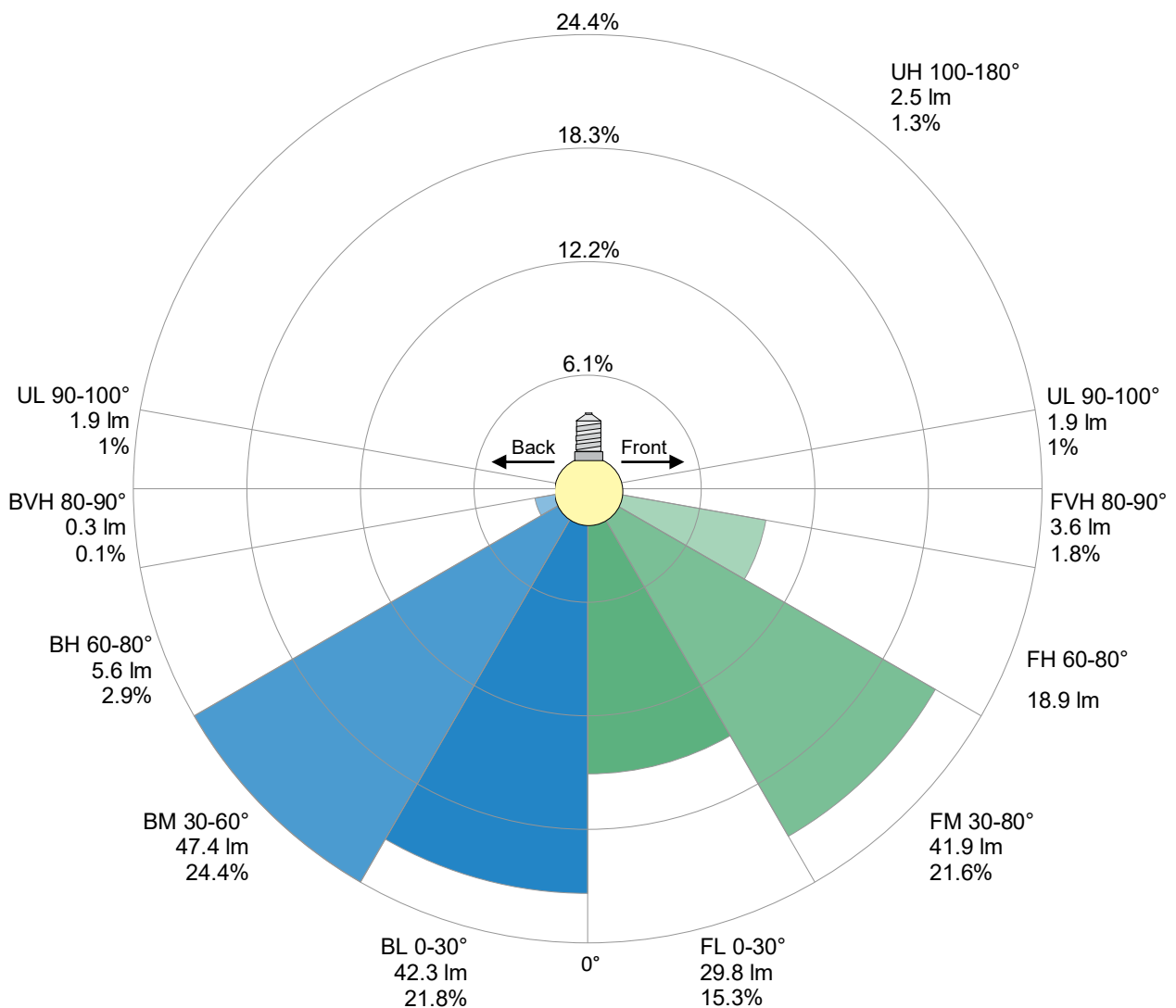
Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	26.4 lm	36.0 lm	36.3 lm	30.4 lm	22.7 lm	15.6 lm	8.89 lm	3.83 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1.86 lm	0.820 lm	0.392 lm	0.347 lm	0.309 lm	0.264 lm	0.184 lm	0.105 lm	0.034 lm

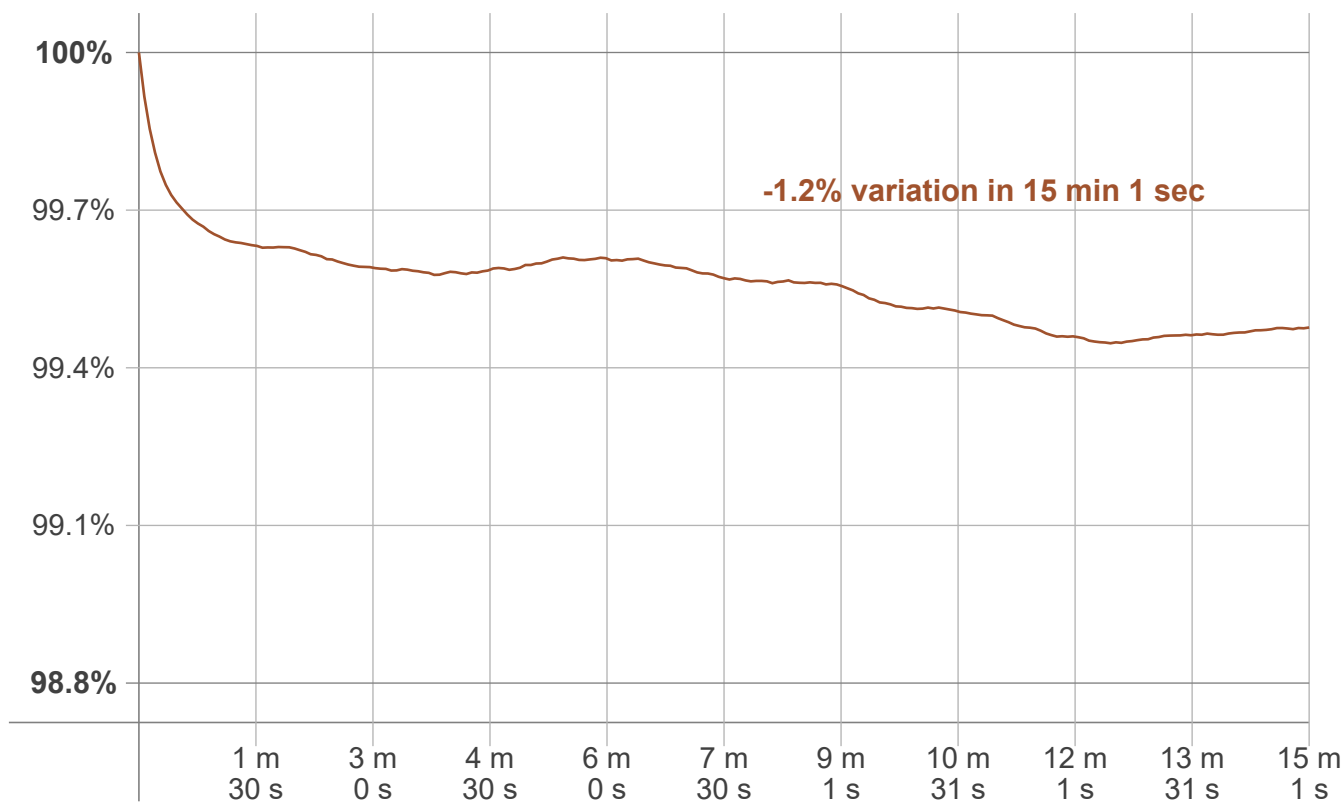
LCS table

BUG rating:	B0 U1 G0	
Forward light	Lumens	Lumens %
Low(0-30):	29.8	15.3%
Medium(30-60):	41.9	21.6%
High(60-80):	18.9	9.7%
Very high(80-90):	3.6	1.8%
Back light		
Low(0-30):	42.3	21.8%
Medium(30-60):	47.4	24.4%
High(60-80):	5.6	2.9%
Very high(80-90):	0.3	0.1%
Uplight		
Low(90-100):	1.9	1%
High(100-180):	2.5	1.3%

LCS graph



Warmup curve



Warmup result

Warmup time:	Lamp stabilized in 15 min 1 sec
Warmup variation	-1.2%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
6438 K	+42 K	6480 K

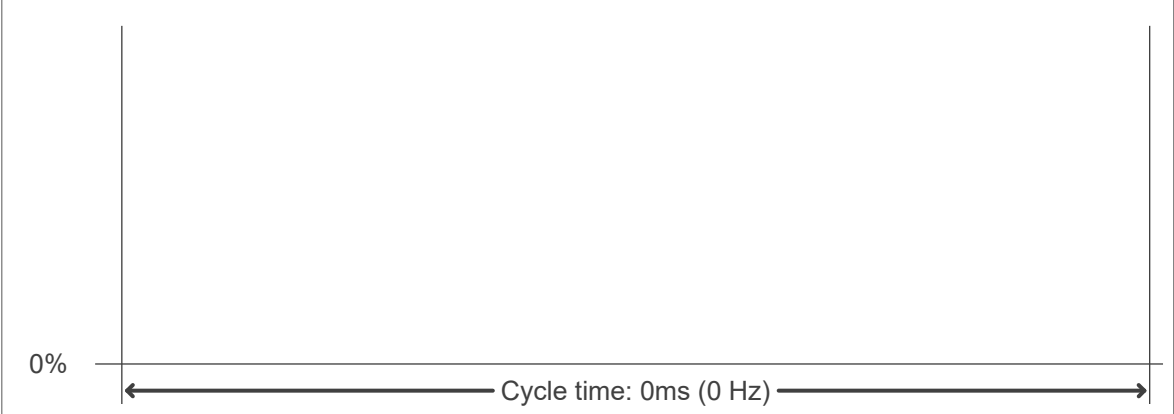
Output change

Output start	Output change	Output end
196 lm	-2 lm	194 lm

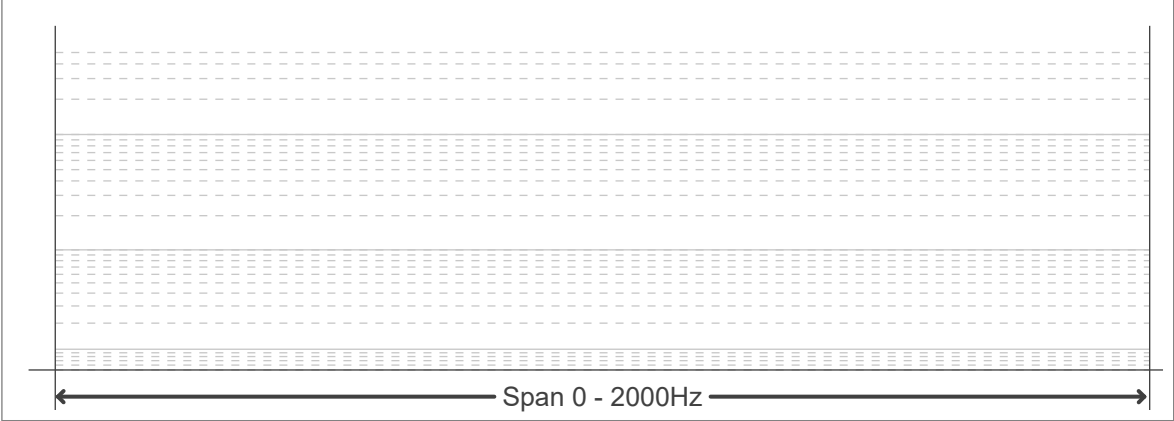
Flicker curve (complete sampled flicker signal)



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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