Light efficiency:

53 Lumen/Watt

Light quality:

CRI: 0,0

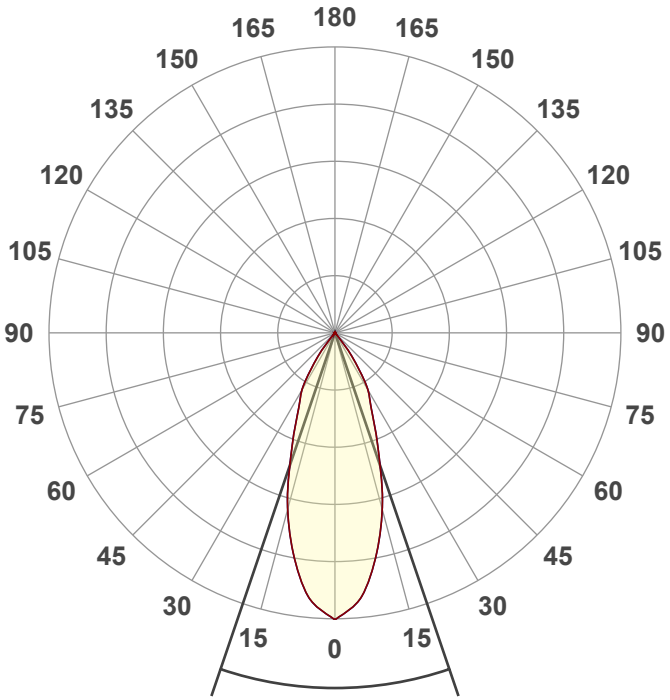
Color temperature:

0 K

Output: 1441 lm
Peak: 2931 cd

Power: 27,3 W
PF: 0,96

No photo



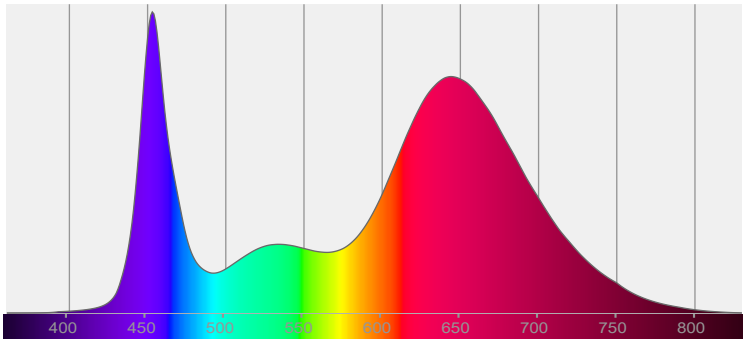
Beam angle 37,6°

Tracking number: VT240906-004528

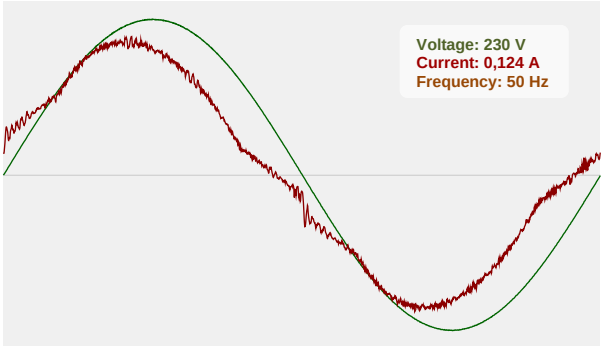
Product name:
TEST VLEESLAMP
Item number:
TEST VLEESLAMP
Date and time:
6-9-2024 09:04:48
Description:

CIE 1931
x: 0,377
y: 0,265

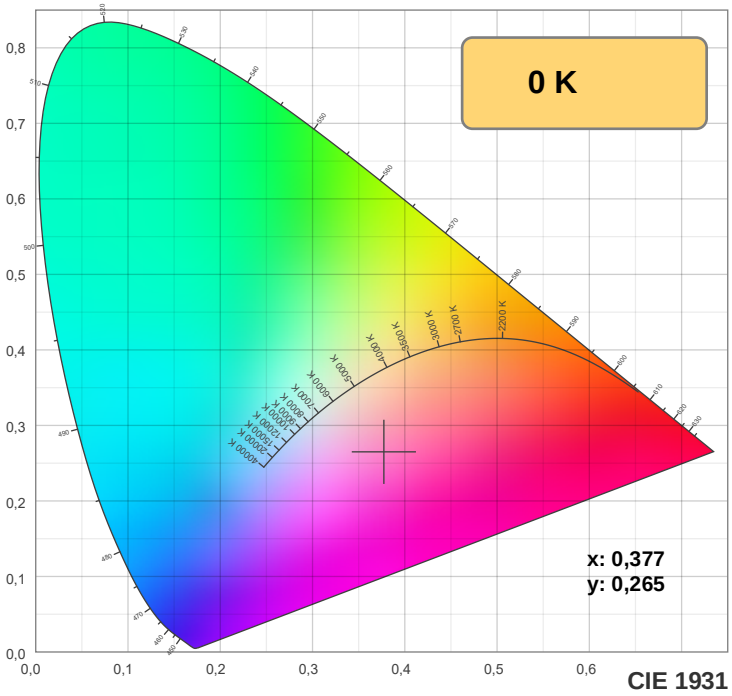
Spectra

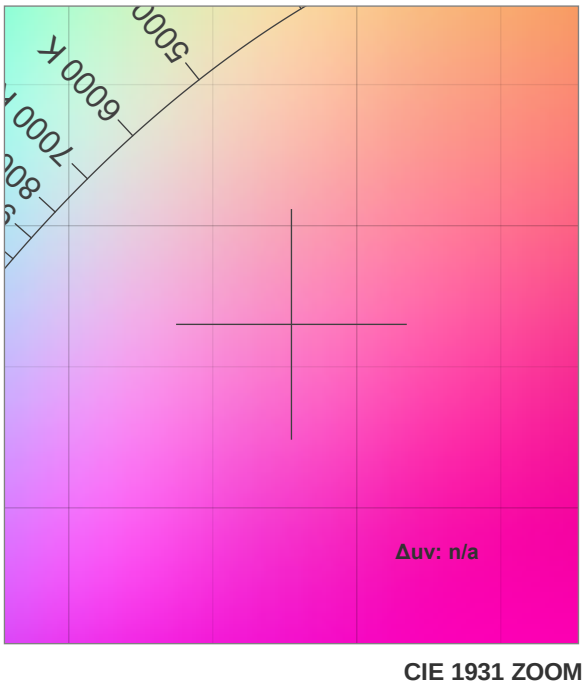


Power



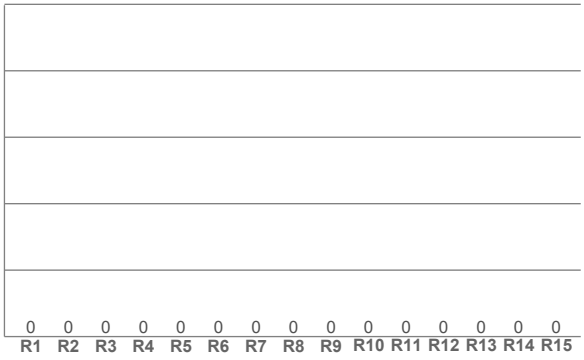
Color details





TM-30: 0,0

CRI: 0,0 (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
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

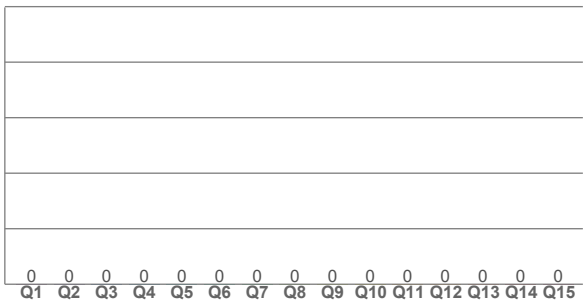
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

CQS: 0,0



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0,0	0,0	0,0	0,0	0,0	0,377	0,265	0,278	0,293	n/a

TM-30 details

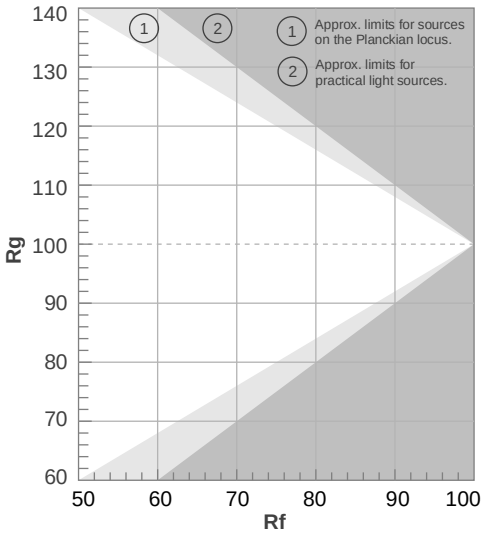
Rf 0,0

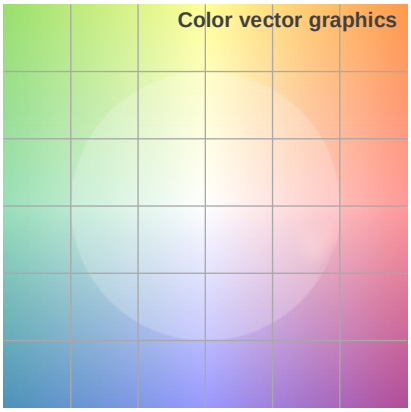
Fidelity index Rf

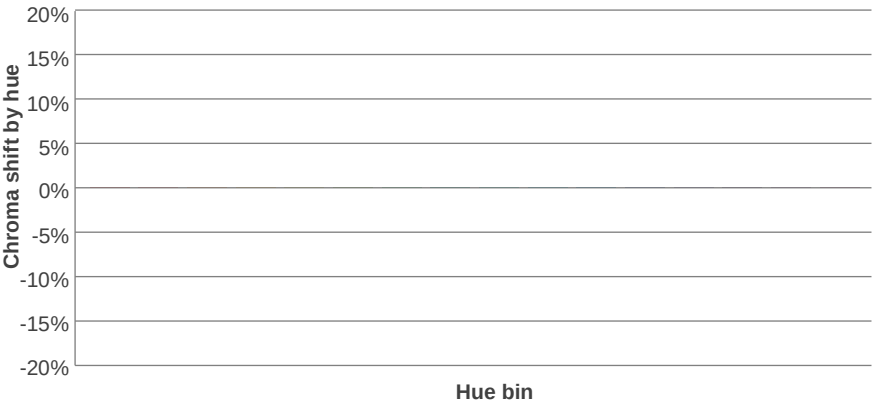
Rg 0,0

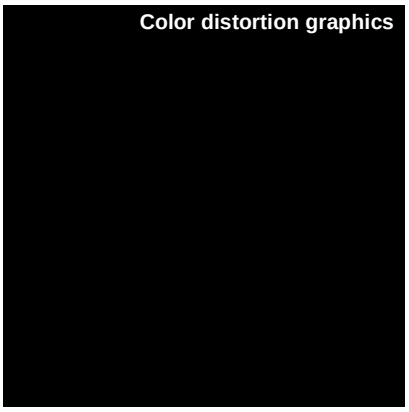
Gamut index Rg

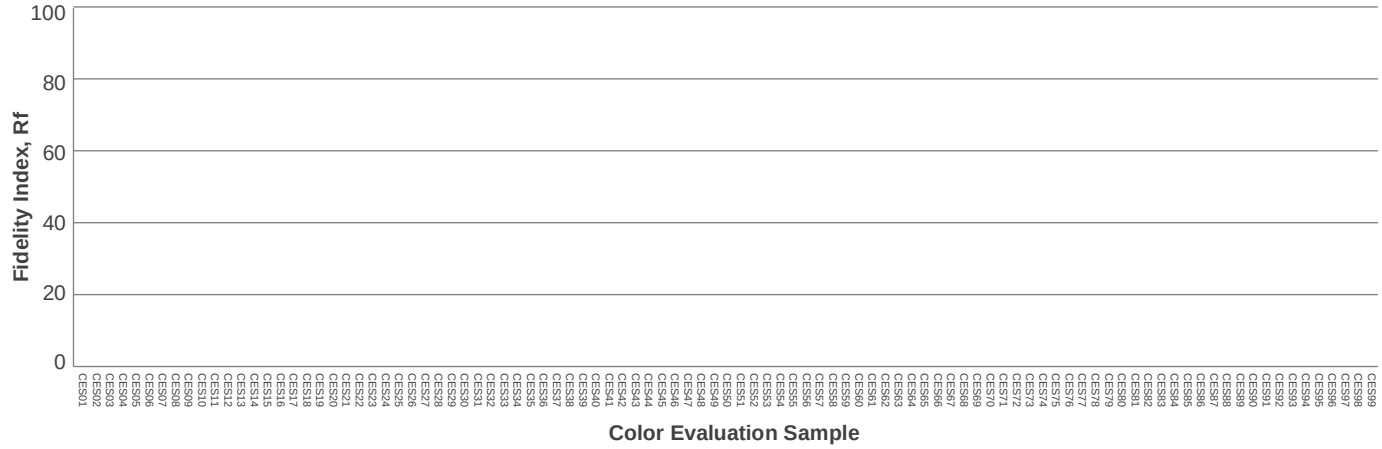
		Shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



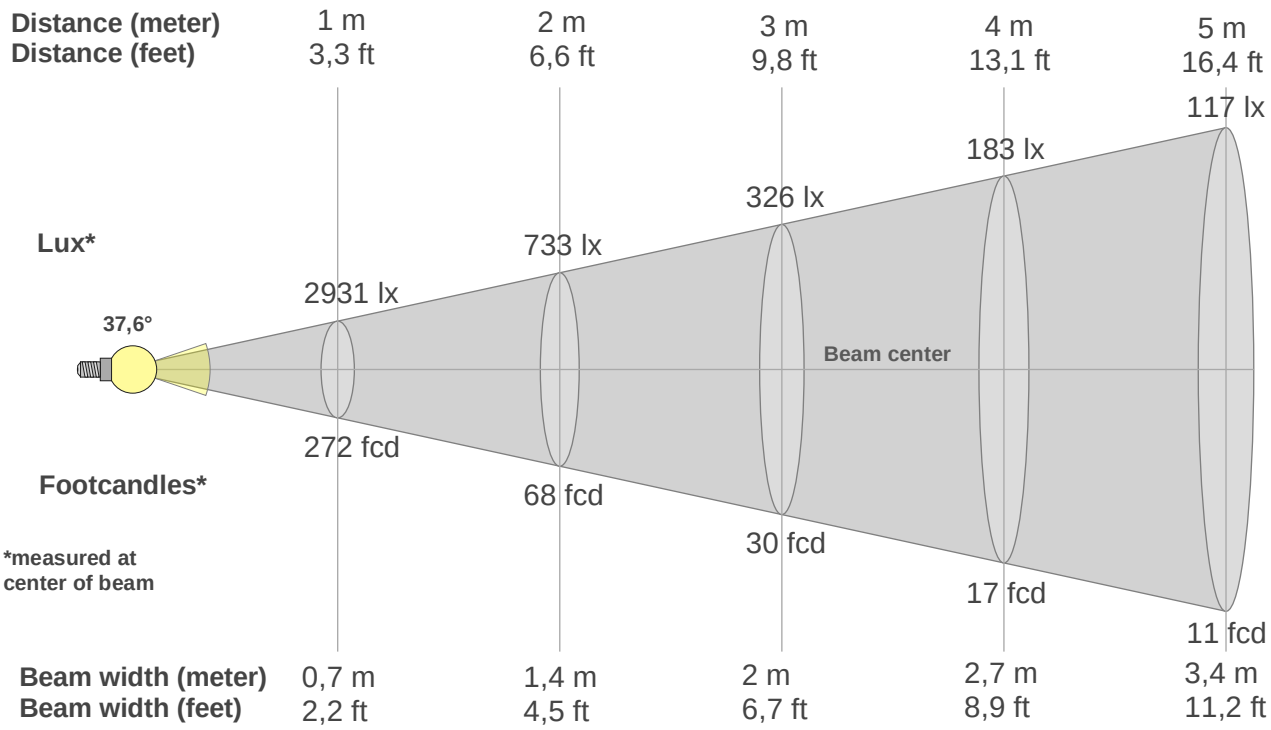








Beam details



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
2931lx	733lx	326lx	183lx	117lx	81lx	60lx	46lx	36lx	29lx	24lx	20lx	17lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx
272,3fcd	68,1fcd	30,3fcd	17fcd	10,9fcd	7,6fcd	5,6fcd	4,3fcd	3,4fcd	2,7fcd	2,3fcd	1,9fcd	1,6fcd	1,4fcd	1,2fcd	1,1fcd	0,9fcd	0,8fcd	0,8fcd	0,7fcd

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°
2931	2883	2804	2715	2544	2373	2183	1981	1776	1553	1330	1149	995	848	760	672	556	421	289	187
100%	98%	96%	93%	87%	81%	74%	68%	61%	53%	45%	39%	34%	29%	26%	23%	19%	14%	10%	6%

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°
2931	2883	2804	2715	2544	2373	2183	1981	1776	1553	1330	1149	995	848	760	672	556	421	289	187
100%	98%	96%	93%	87%	81%	74%	68%	61%	53%	45%	39%	34%	29%	26%	23%	19%	14%	10%	6%

Intensities in 180° c-plane

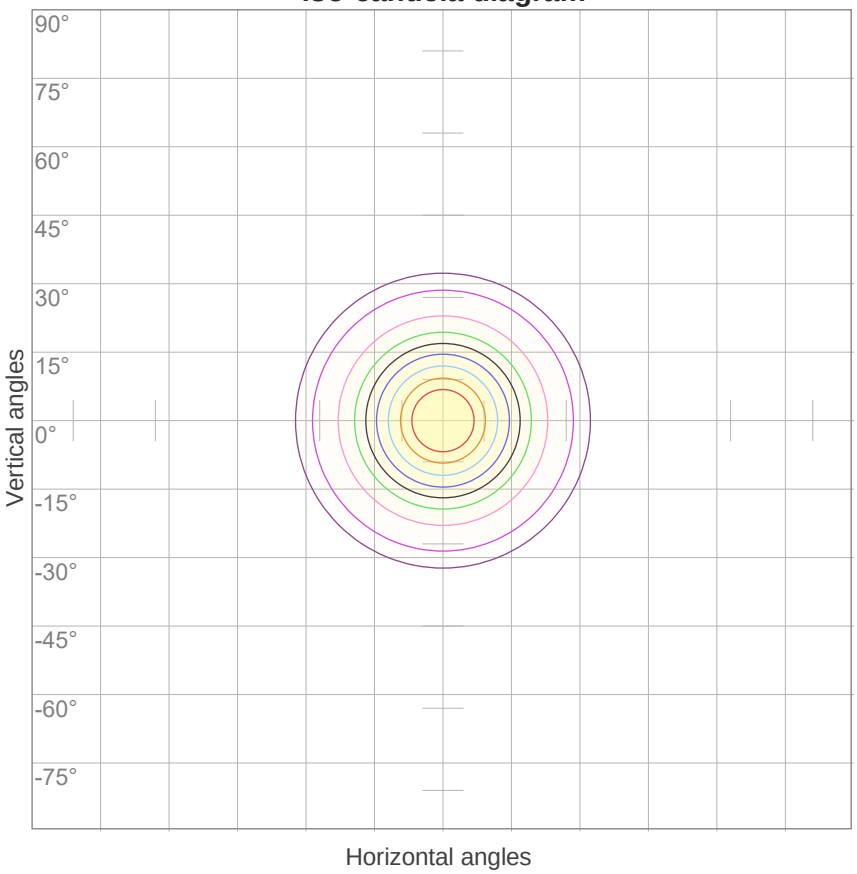
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2931	2883	2804	2715	2544	2373	2183	1981	1776	1553	1330	1149	995	848	760	672	556	421	289	187
100%	98%	96%	93%	87%	81%	74%	68%	61%	53%	45%	39%	34%	29%	26%	23%	19%	14%	10%	6%

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°
2931	2883	2804	2715	2544	2373	2183	1981	1776	1553	1330	1149	995	848	760	672	556	421	289	187
100%	98%	96%	93%	87%	81%	74%	68%	61%	53%	45%	39%	34%	29%	26%	23%	19%	14%	10%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37,6°	71,8°	80,5°	99,4%	98,9%

iso-candela diagram



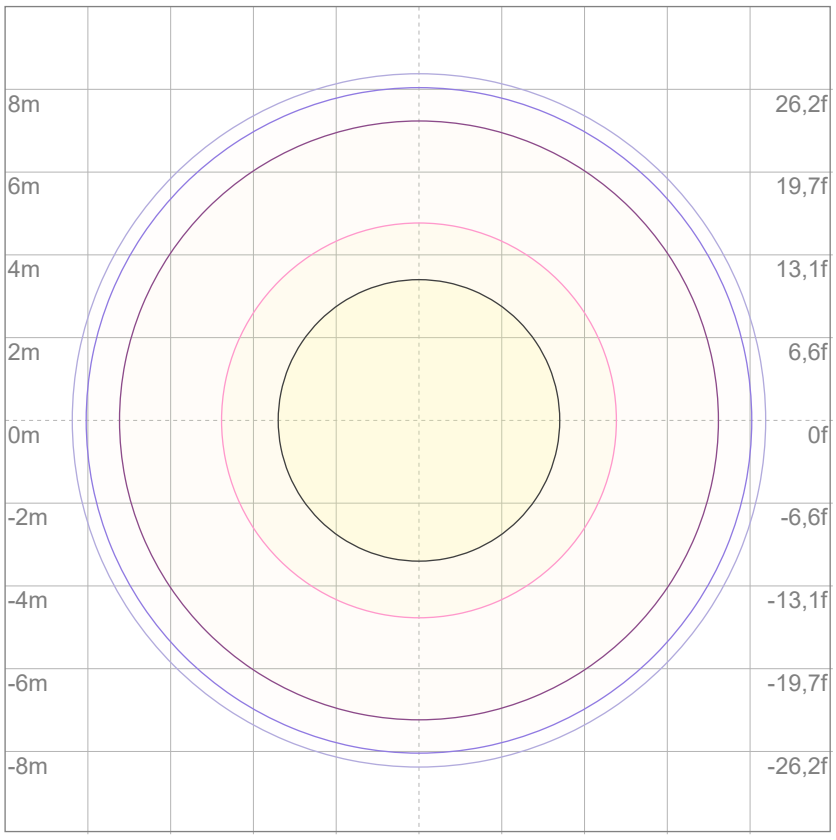
10%	293 cd
20%	586 cd
30%	879 cd
40%	1172 cd
50%	1466 cd
60%	1759 cd
70%	2052 cd
80%	2345 cd
90%	2638 cd

Conditions:

Number of c-planes: 16

Candela at center: 2931 cd

iso-lux diagram



3%	0,879 lx
5%	1,47 lx
10%	2,93 lx
30%	8,79 lx
50%	14,7 lx

Conditions:

Number of c-planes: 16

Lux at center: 29,3 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	16,4	17,0	16,5	17,2	17,4	16,4	17,0	16,5	17,2	17,4
	3H	16,2	16,8	16,5	17,0	17,2	16,2	16,8	16,5	17,0	17,2
	4H	16,1	16,8	16,5	17,0	17,2	16,1	16,8	16,5	17,0	17,2
	6H	16,1	16,7	16,4	17,0	17,3	16,1	16,7	16,4	17,0	17,3
	8H	16,1	16,6	16,4	16,9	17,3	16,1	16,6	16,4	16,9	17,3
	12H	16,0	16,5	16,4	16,9	17,3	16,0	16,5	16,4	16,9	17,3
4H	2H	16,1	16,7	16,5	17,0	17,2	16,1	16,7	16,5	17,0	17,2
	3H	16,0	16,5	16,3	16,9	17,3	16,0	16,5	16,3	16,9	17,3
	4H	15,9	16,3	16,3	16,8	17,3	15,9	16,3	16,3	16,8	17,3
	6H	15,8	16,3	16,3	16,7	17,0	15,8	16,3	16,3	16,7	17,0
	8H	15,8	16,2	16,3	16,6	17,0	15,8	16,2	16,3	16,6	17,0
	12H	15,7	16,1	16,2	16,5	16,9	15,7	16,1	16,2	16,5	16,9
8H	4H	15,8	16,2	16,3	16,6	16,9	15,8	16,2	16,3	16,6	16,9
	6H	15,7	16,0	16,2	16,5	17,0	15,7	16,0	16,2	16,5	17,0
	8H	15,7	16,0	16,2	16,5	17,1	15,7	16,0	16,2	16,5	17,1
	12H	15,7	15,9	16,3	16,4	17,0	15,7	15,9	16,3	16,4	17,0
12H	4H	15,7	16,1	16,2	16,5	16,9	15,7	16,1	16,2	16,5	16,9
	6H	15,7	16,0	16,2	16,5	17,1	15,7	16,0	16,2	16,5	17,1
	8H	15,7	15,9	16,3	16,4	17,0	15,7	15,9	16,3	16,4	17,0

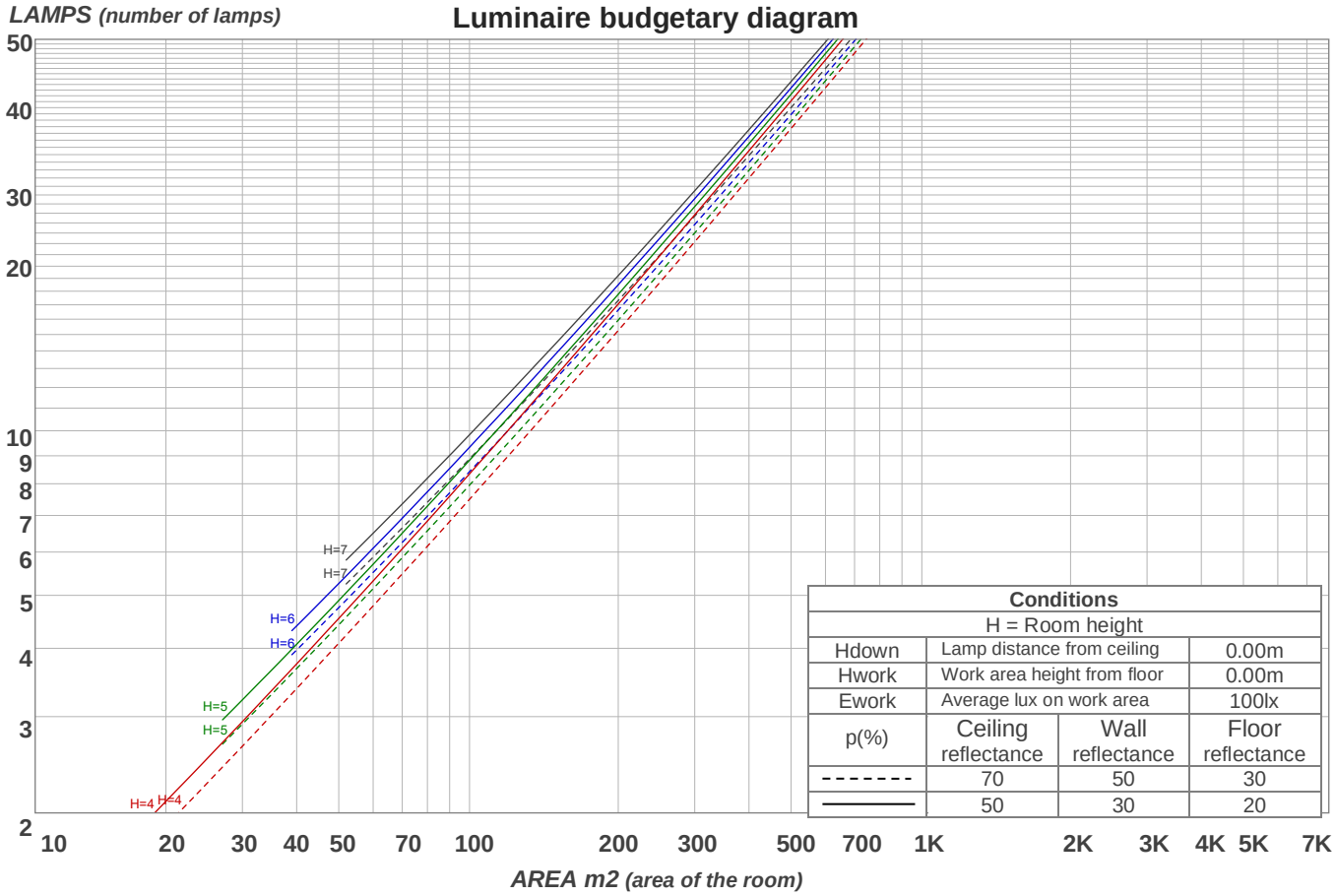
Variation of the observer position for the luminaire distance S		
S = 1.0H	5,9 / -10,4	5,9 / -10,4
S = 1.5H	8,6 / -10,6	8,6 / -10,6
S = 2.0H	10,6 / -10,7	10,6 / -10,7

CIE 117-1995. Corrected glare indices referring to 1441 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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	80	94	88	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	75	82	77	74	80	77	74	79	76	73	72
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	68
8	84	76	71	67	83	76	71	67	75	70	67	74	70	67	73	69	66	65
9	81	73	67	64	80	72	67	64	71	67	64	70	66	63	70	66	63	62
10	78	69	64	61	77	69	64	61	68	64	61	68	63	61	67	63	60	59

Luminaire budgetary diagram



Zonal Lumen Summary

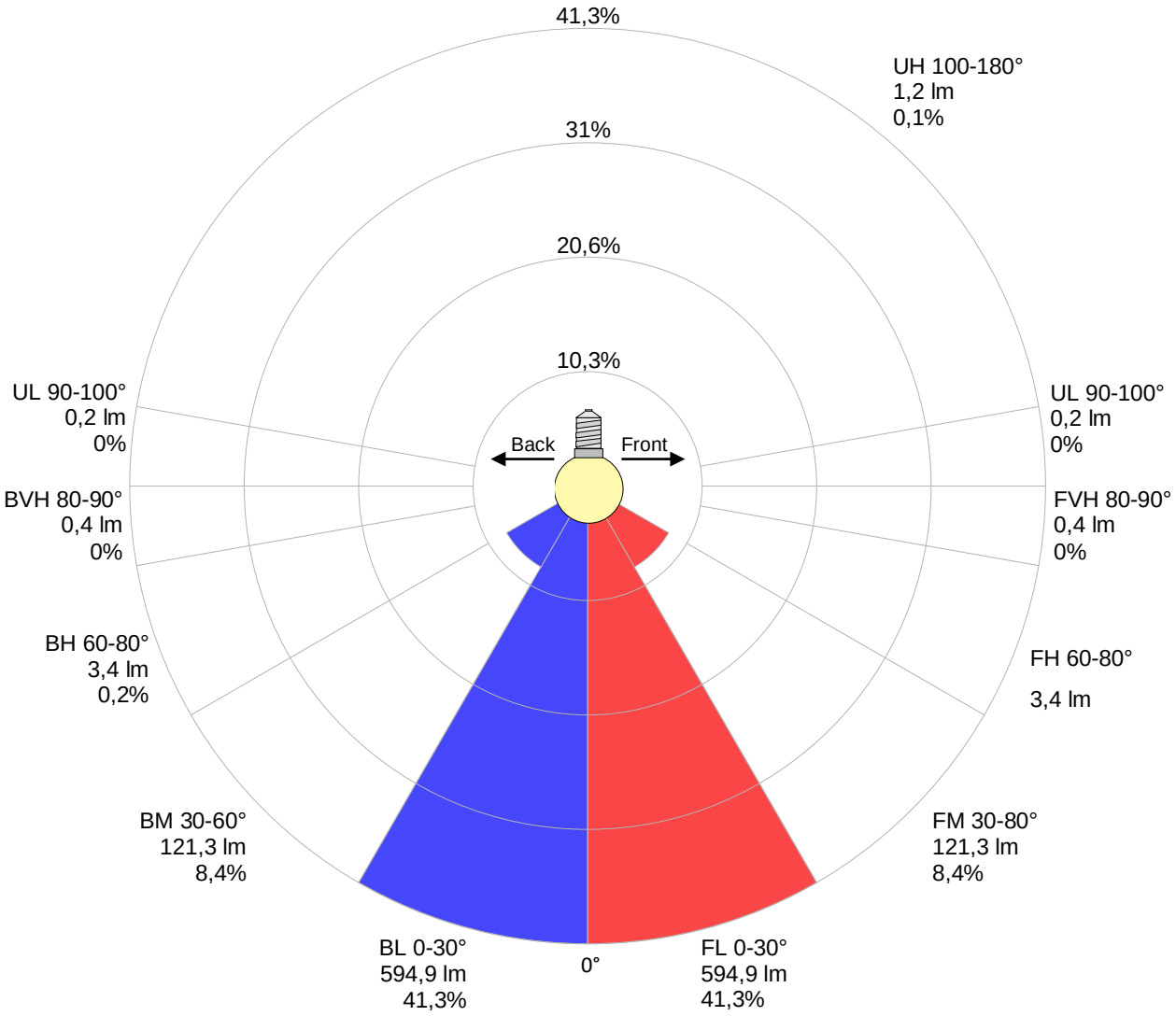
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	513 lm	428 lm	222 lm	14,9 lm	4,62 lm	3,89 lm	2,93 lm	0,762 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,160 lm	0,175 lm	0,129 lm	0,133 lm	0,140 lm	0,187 lm	0,204 lm	0,161 lm	0,059 lm

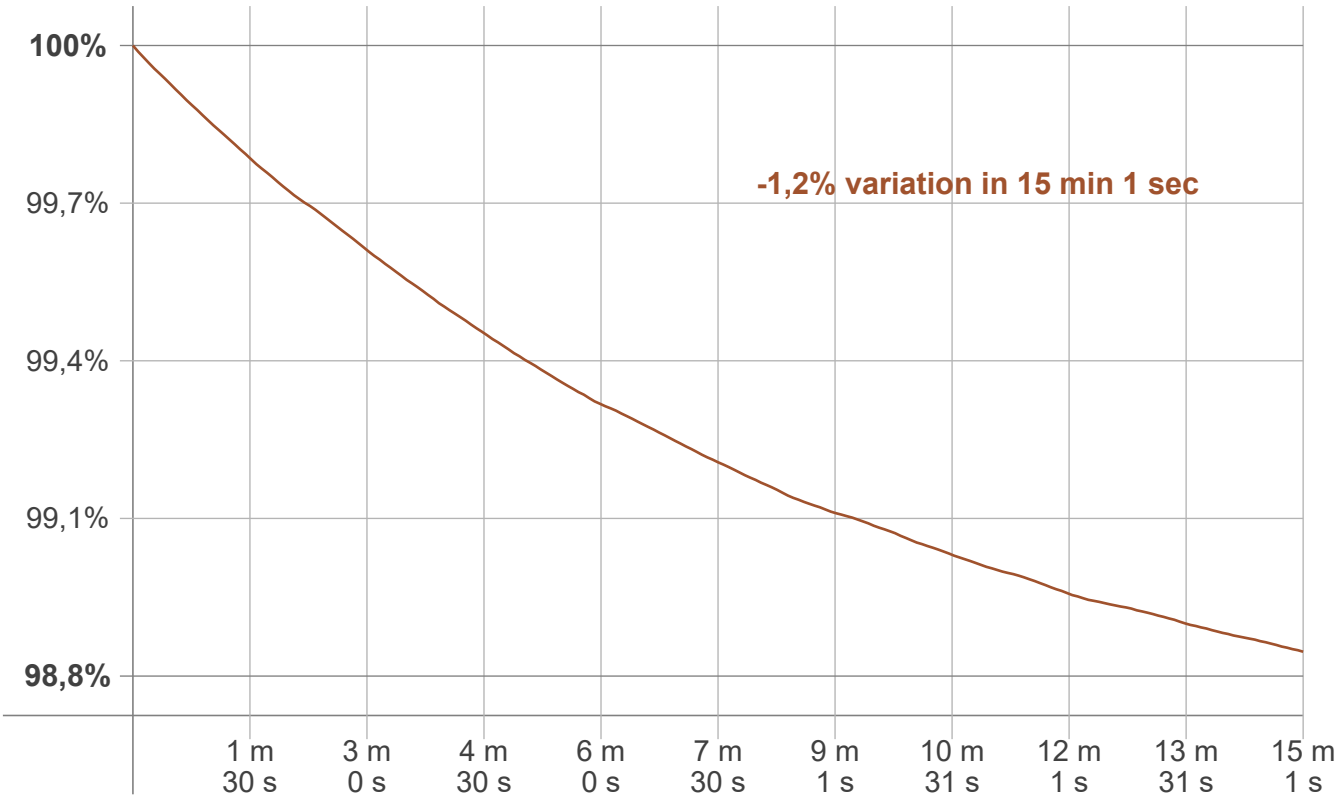
LCS table

BUG rating:	B2 U1 G0	
Forward light	Lumens	Lumens %
Low(0-30):	594,9	41,3%
Medium(30-60):	121,3	8,4%
High(60-80):	3,4	0,2%
Very high(80-90):	0,4	0%
Back light		
Low(0-30):	594,9	41,3%
Medium(30-60):	121,3	8,4%
High(60-80):	3,4	0,2%
Very high(80-90):	0,4	0%
Uplight		
Low(90-100):	0,2	0%
High(100-180):	1,2	0,1%

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
0 K	**0 K**	**0 K**

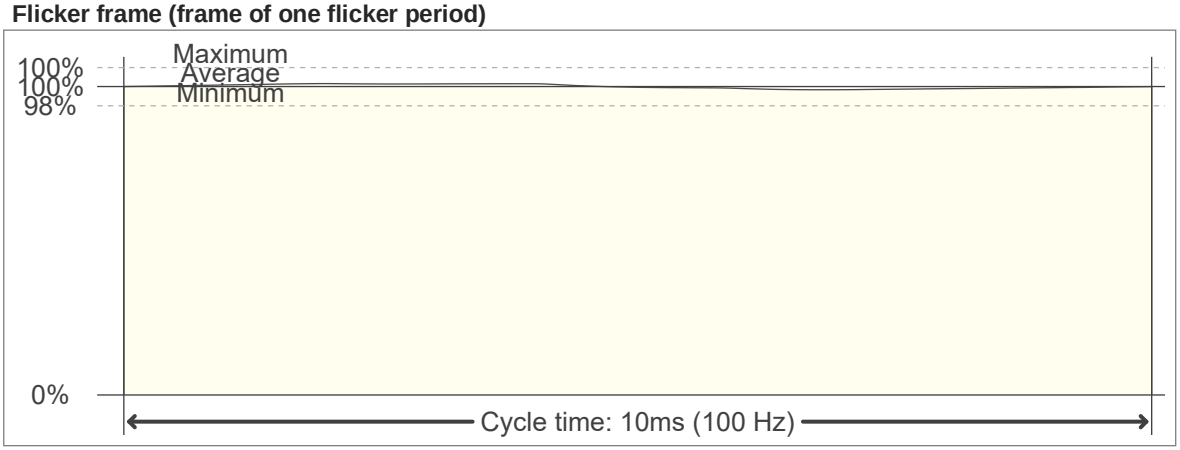
Output change

Output start	Output change	Output end
1459 lm	**-17 lm**	**1441 lm**

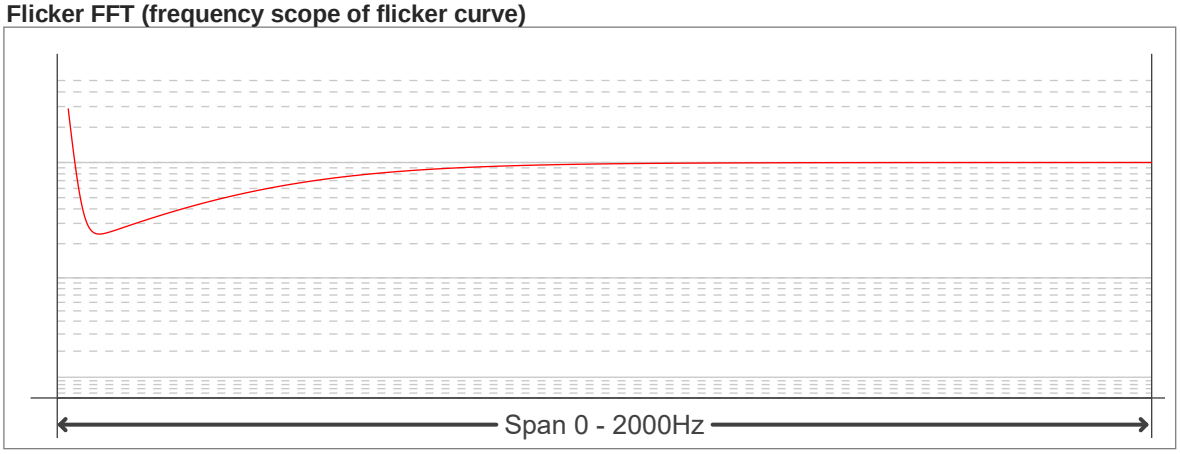
Flicker

Flicker curve (complete sampled flicker signal)

Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:		100 Hz	
Flicker index:	0	JA8/10 40Hz	0,01 %
Flicker percentage:	1,03 %	JA8/10 90Hz	0,02 %
SVM: (Visual flicker)	0,04	JA8/10 200Hz	0,97 %
PstLM	0,01	JA8/10 400Hz	0,97 %
Mp	0,01	JA8/10 1000Hz	1,03 %

Flicker conditions:

Sample rate:	20000 samples/second