Light efficiency:

73 Lumen/Watt

Light quality:

CRI: 91,1

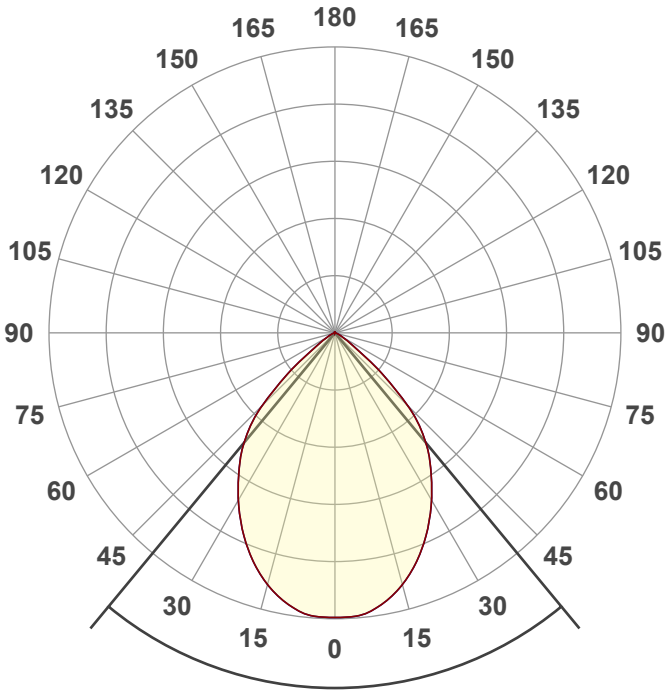
Color temperature:

3000 K

Output: 378 lm
Peak: 262 cd

Power: 5,2 W
PF: 0,82

No photo



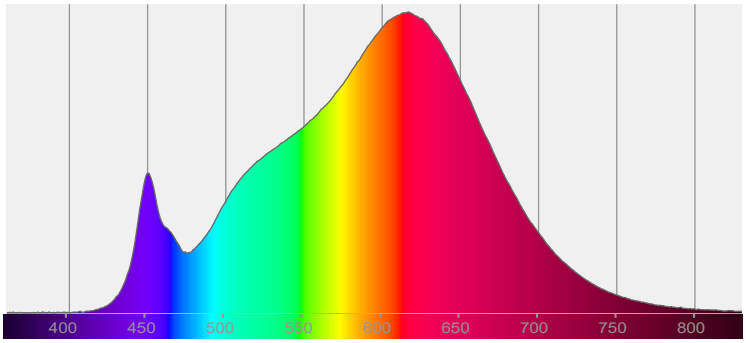
Beam angle 79,2°

CIE 1931
x: 0,437
y: 0,404

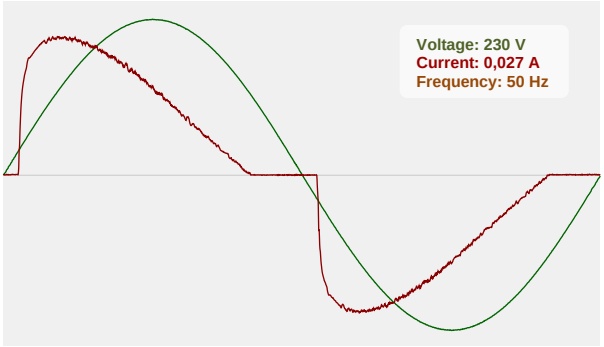
Tracking number: VT240906-009154

Product name:
807467
Item number:
807467
Date and time:
6-9-2024 13:19:42
Description:

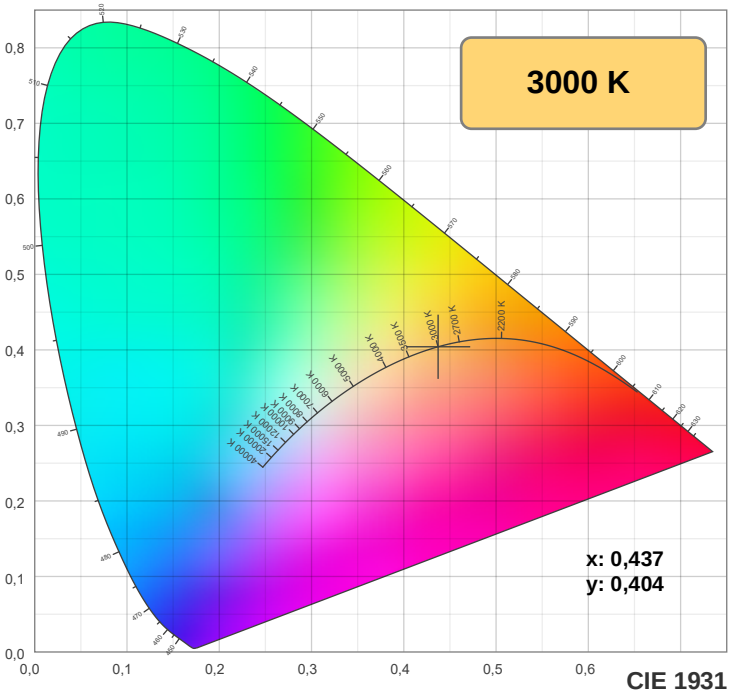
Spectra



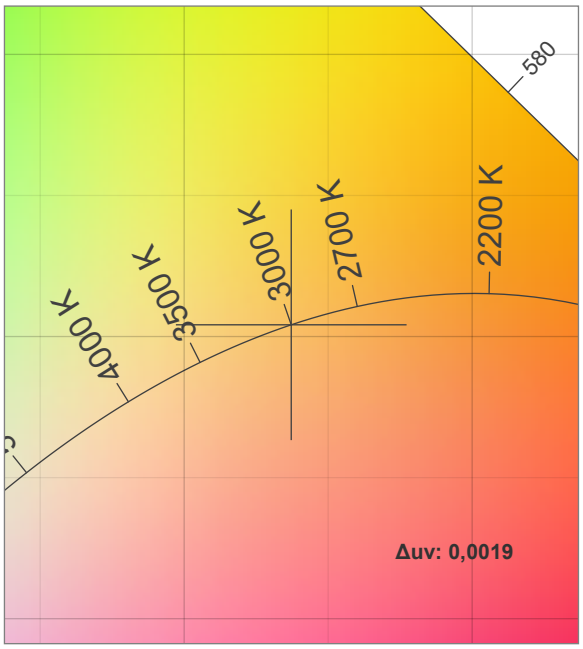
Power



Color details

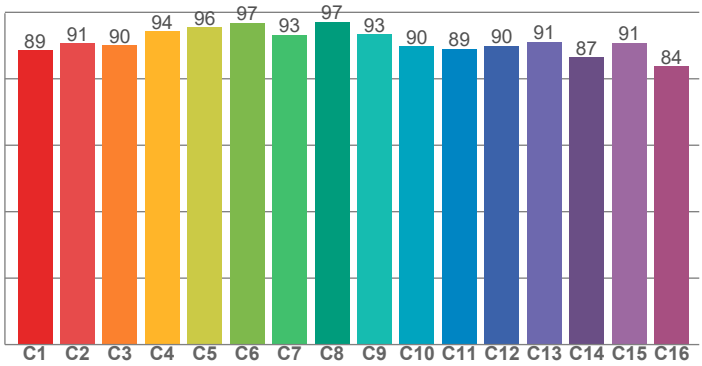


CIE 1931

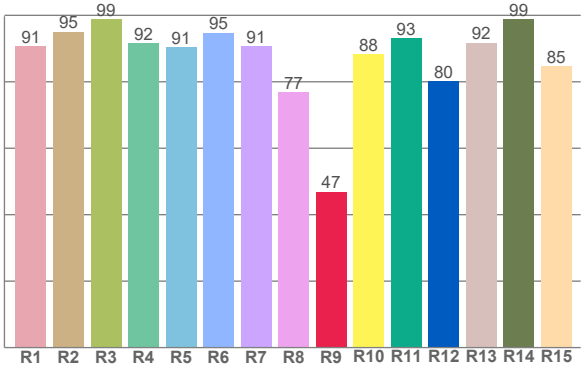


CIE 1931 ZOOM

TM-30: 91,2



CRI: 91,1 (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
90,6	95,1	98,9	91,6	90,5	94,8	90,7	76,9	46,9	88,3	93,1	80,1	91,8	98,9	84,6

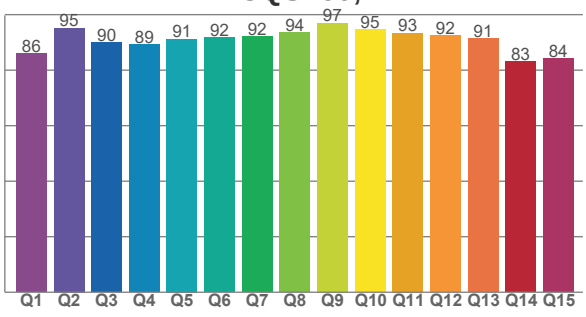
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,5	90,7	90,1	94,3	95,5	96,9	93,3	97,1	93,4	89,7	89,0	89,9	91,2	86,5	90,8	83,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
86,0	95,3	89,9	89,2	91,2	91,7	92,1	93,5	97,0	94,6	93,4	92,5	91,4	83,1	84,2

CQS: 90,1



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
3000 K	91,1	46,9	91,2	97,5	90,1	0,437	0,404	0,251	0,348	0,0019

TM-30 details

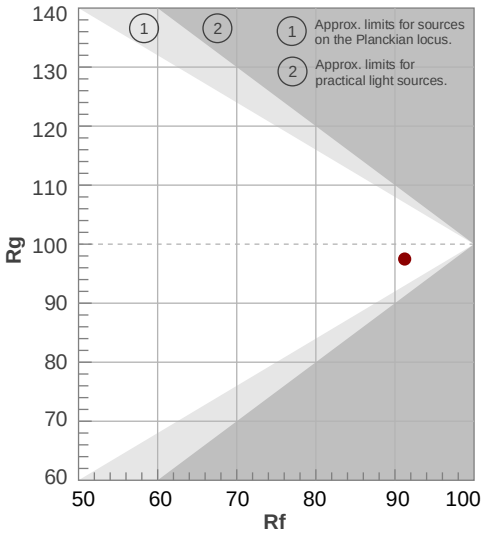
Rf 91,2

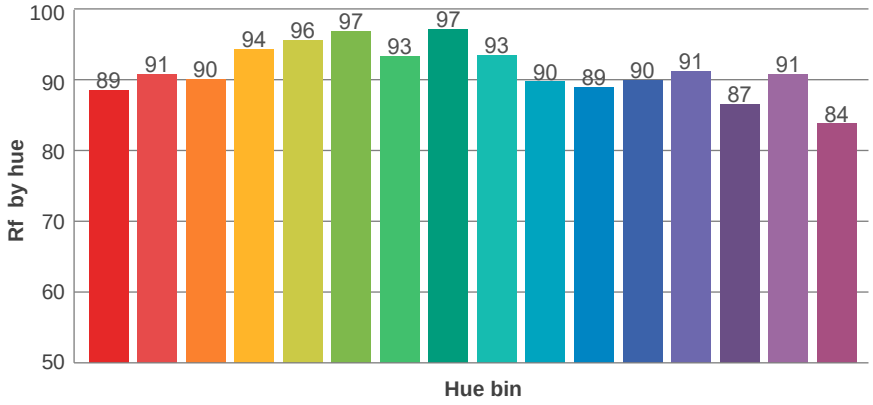
Fidelity index Rf

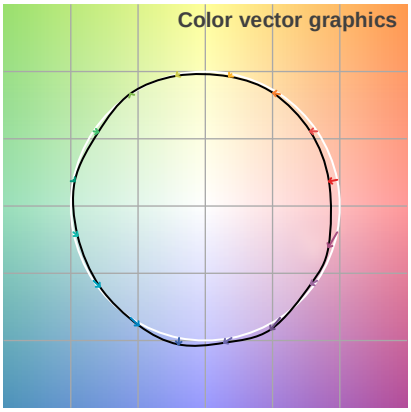
Rg 97,5

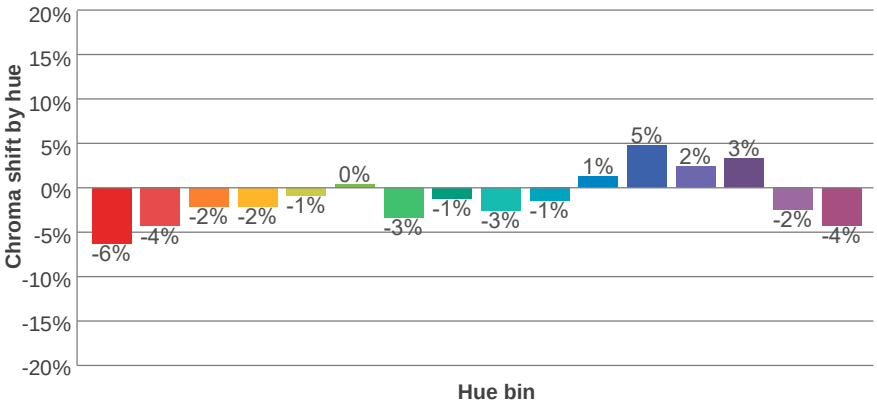
Gamut index Rg

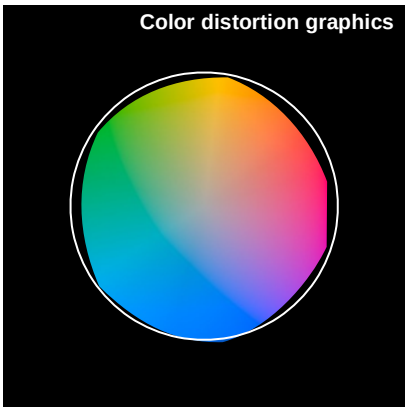
Hue Bin	R_f	Shifts (%) Chroma	Hue
1	89	-6%	0%
2	91	-4%	3%
3	90	-2%	5%
4	94	-2%	1%
5	96	-1%	2%
6	97	0%	0%
7	93	-3%	-2%
8	97	-1%	1%
9	93	-3%	3%
10	90	-1%	6%
11	89	1%	8%
12	90	5%	0%
13	91	2%	-6%
14	87	3%	-11%
15	91	-2%	-5%
16	84	-4%	-12%

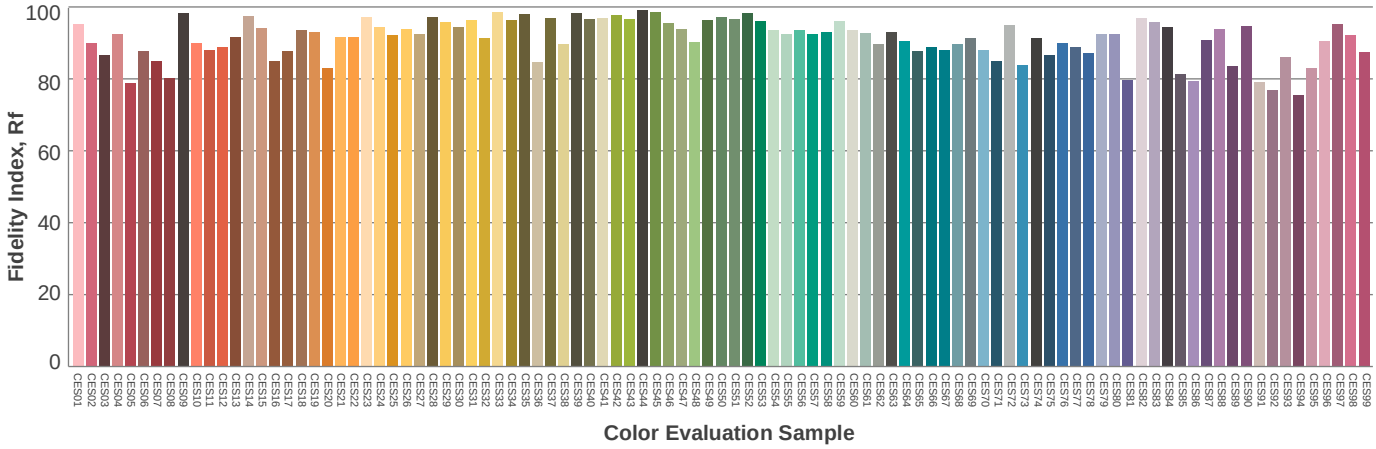




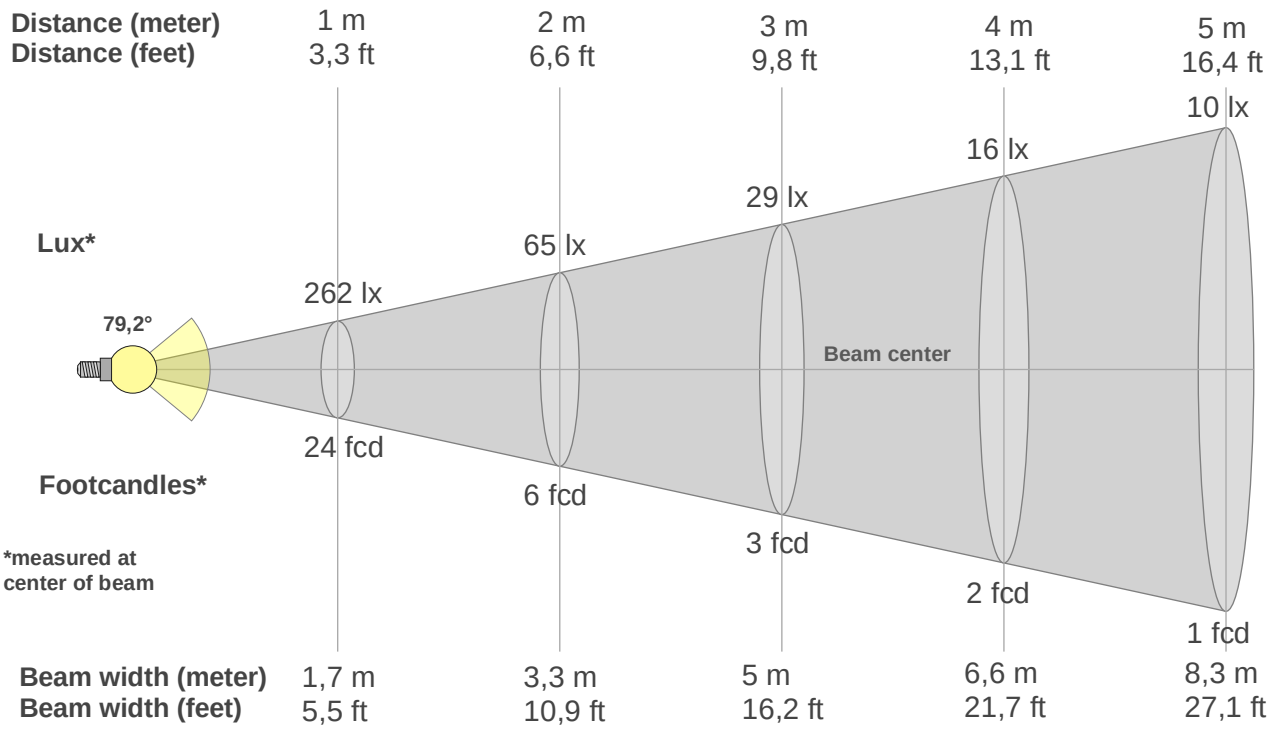








Beam details



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
262lx	65lx	29lx	16lx	10lx	7lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx
24,3fcd	6,1fcd	2,7fcd	1,5fcd	1fcd	0,7fcd	0,5fcd	0,4fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd

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°
262	261	253	240	222	201	178	154	128	94	51	20	9	5	3	1	1	0	0	0
100%	100%	97%	92%	85%	77%	68%	59%	49%	36%	19%	7%	3%	2%	1%	1%	0%	0%	0%	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°
262	261	253	240	222	201	178	154	128	94	51	20	9	5	3	1	1	0	0	0
100%	100%	97%	92%	85%	77%	68%	59%	49%	36%	19%	7%	3%	2%	1%	1%	0%	0%	0%	0%

Intensities in 180° c-plane

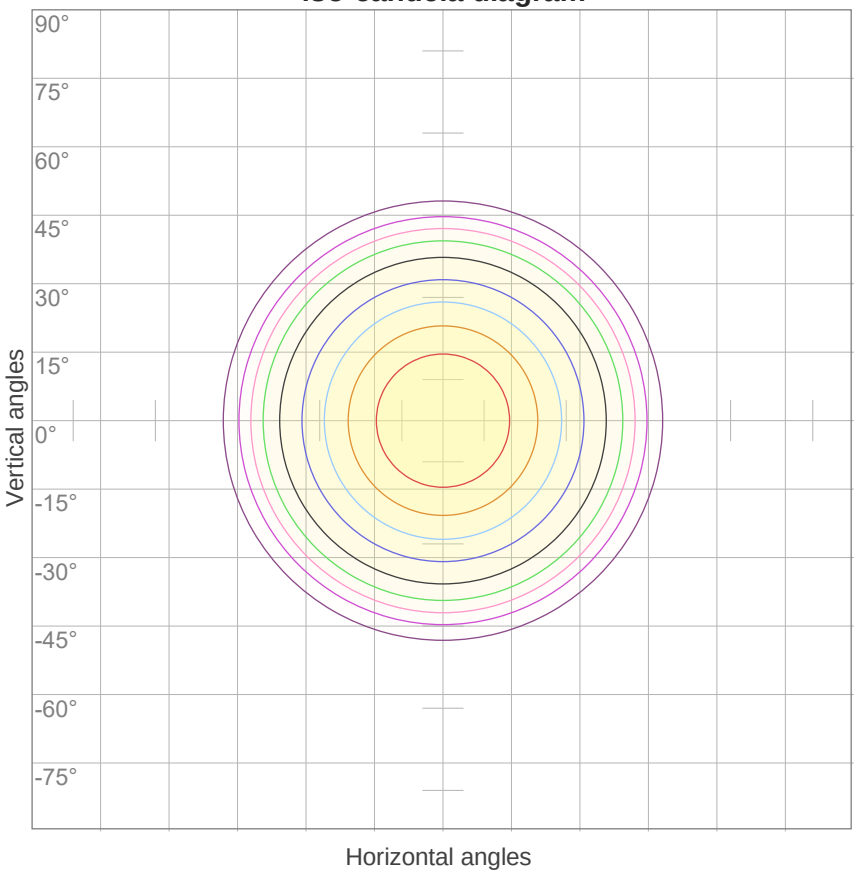
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
262	261	253	240	222	201	178	154	128	94	51	20	9	5	3	1	1	0	0	0
100%	100%	97%	92%	85%	77%	68%	59%	49%	36%	19%	7%	3%	2%	1%	1%	0%	0%	0%	0%

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°
262	261	253	240	222	201	178	154	128	94	51	20	9	5	3	1	1	0	0	0
100%	100%	97%	92%	85%	77%	68%	59%	49%	36%	19%	7%	3%	2%	1%	1%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
79,2°	106,9°	125,2°	98,0%	85,0%

iso-candela diagram



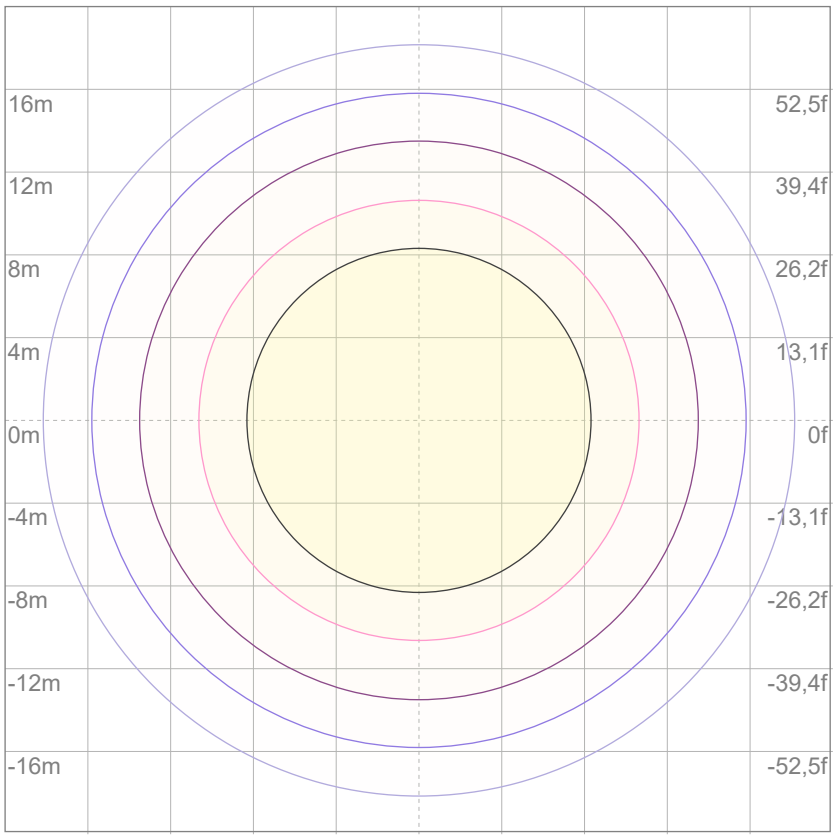
10%	26 cd
20%	52 cd
30%	79 cd
40%	105 cd
50%	131 cd
60%	157 cd
70%	183 cd
80%	209 cd
90%	236 cd

Conditions:

Number of c-planes: 12

Candela at center: 262 cd

iso-lux diagram



3%	78,5m lx
5%	0,131 lx
10%	0,262 lx
30%	0,785 lx
50%	1,31 lx

Conditions:

Number of c-planes: 12

Lux at center: 2,62 lx

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

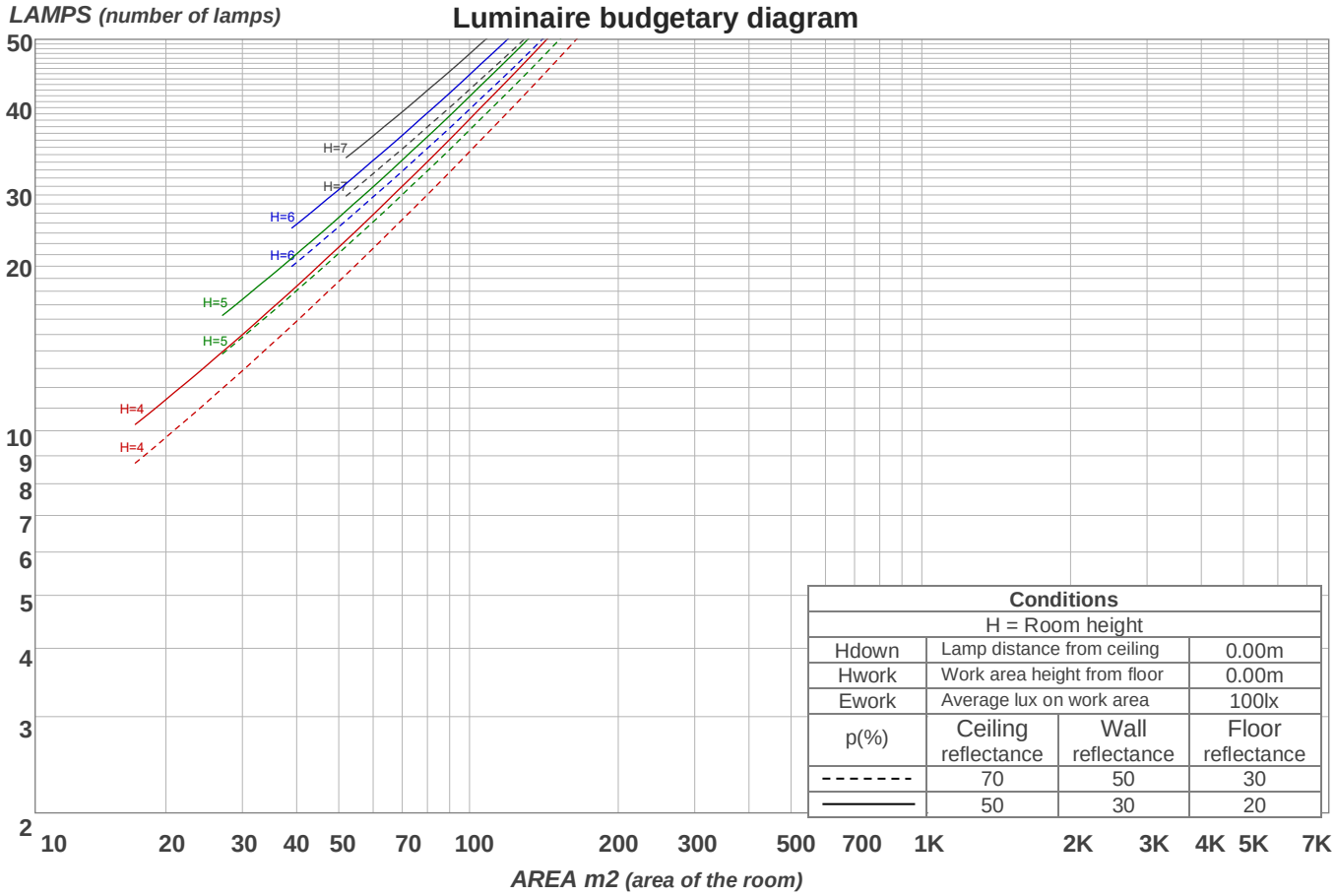
Glare evaluation according to UGR

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	22,6	23,4	22,7	23,7	23,9	22,6	23,4	22,7	23,7	23,9
	3H	22,3	23,3	22,7	23,5	23,7	22,3	23,3	22,7	23,5	23,7
	4H	22,3	23,1	22,7	23,4	23,6	22,3	23,1	22,7	23,4	23,6
	6H	22,3	23,0	22,6	23,3	23,7	22,3	23,0	22,6	23,3	23,7
	8H	22,2	22,9	22,5	23,2	23,6	22,2	22,9	22,5	23,2	23,6
	12H	22,2	22,8	22,5	23,2	23,6	22,2	22,8	22,5	23,2	23,6
4H	2H	22,3	23,2	22,7	23,4	23,7	22,3	23,2	22,7	23,4	23,7
	3H	22,2	22,9	22,6	23,3	23,7	22,2	22,9	22,6	23,3	23,7
	4H	22,1	22,7	22,5	23,1	23,7	22,1	22,7	22,5	23,1	23,7
	6H	22,0	22,7	22,5	23,0	23,3	22,0	22,7	22,5	23,0	23,3
	8H	22,0	22,5	22,5	22,9	23,3	22,0	22,5	22,5	22,9	23,3
	12H	21,9	22,4	22,4	22,8	23,3	21,9	22,4	22,4	22,8	23,3
8H	4H	22,0	22,5	22,5	22,9	23,3	22,0	22,5	22,5	22,9	23,3
	6H	21,9	22,3	22,4	22,8	23,3	21,9	22,3	22,4	22,8	23,3
	8H	21,9	22,2	22,4	22,8	23,4	21,9	22,2	22,4	22,8	23,4
	12H	21,8	22,1	22,4	22,6	23,2	21,8	22,1	22,4	22,6	23,2
12H	4H	21,9	22,4	22,4	22,8	23,3	21,9	22,4	22,4	22,8	23,3
	6H	21,9	22,2	22,4	22,8	23,4	21,9	22,2	22,4	22,8	23,4
	8H	21,8	22,1	22,4	22,6	23,2	21,8	22,1	22,4	22,6	23,2
Variation of the observer position for the luminaire distance S											
S = 1.0H		1,7 / -6,3					1,7 / -6,3				
S = 1.5H		4,0 / -10,7					4,0 / -10,7				
S = 2.0H		5,8 / -13,1					5,8 / -13,1				
CIE 117-1995. Corrected glare indices referring to 378 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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	81	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	77	72	90	82	76	71	80	75	71	78	73	70	76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	76	65	58	53	75	64	58	53	63	57	53	62	56	52	61	56	52	50
8	72	60	53	49	70	60	53	48	59	53	48	57	52	48	56	51	48	46
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	42
10	64	52	46	41	63	52	45	41	51	45	41	50	45	41	49	44	41	39

Luminaire budgetary diagram



Zonal Lumen Summary

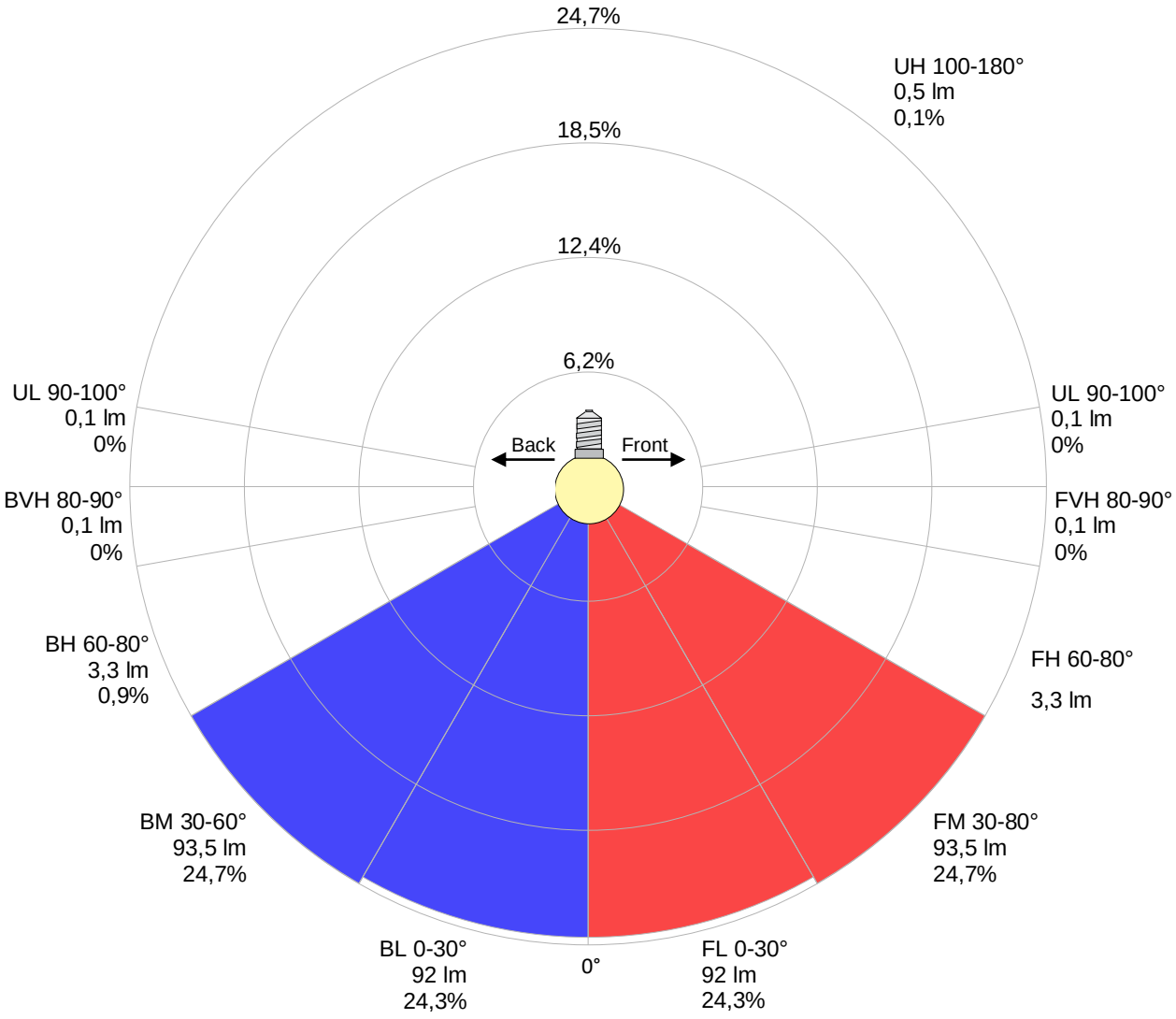
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	67,2 lm	92,2 lm	95,9 lm	70,5 lm	20,5 lm	5,08 lm	1,50 lm	0,291 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,088 lm	0,075 lm	0,074 lm	0,077 lm	0,077 lm	0,074 lm	0,057 lm	0,040 lm	0,014 lm

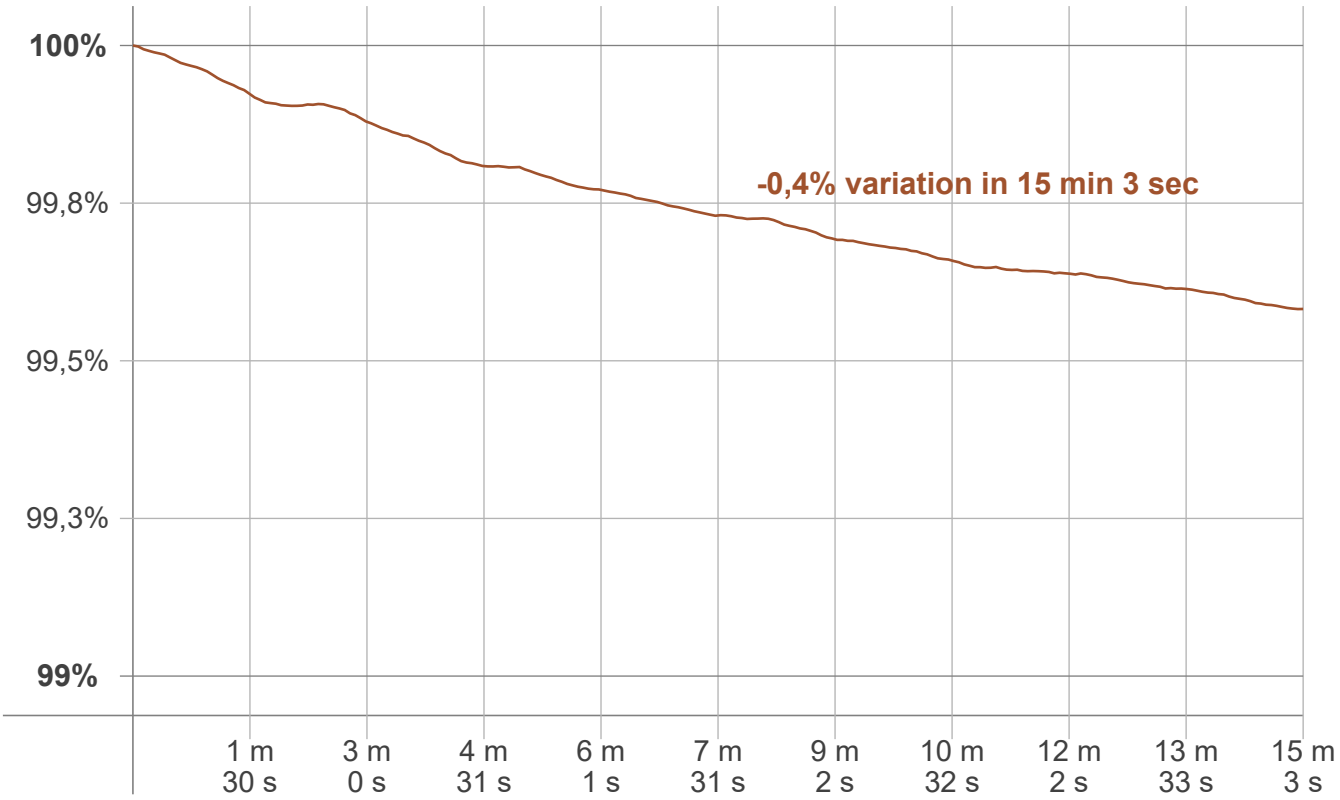
LCS table

BUG rating:	B0 U0 G0	
Forward light	Lumens	Lumens %
Low(0-30):	92	24,3%
Medium(30-60):	93,5	24,7%
High(60-80):	3,3	0,9%
Very high(80-90):	0,1	0%
Back light		
Low(0-30):	92	24,3%
Medium(30-60):	93,5	24,7%
High(60-80):	3,3	0,9%
Very high(80-90):	0,1	0%
Uplight		
Low(90-100):	0,1	0%
High(100-180):	0,5	0,1%

LCS graph



Warmup curve



Warmup result

Warmup time:	**Lamp stabilized in 15 min 3 sec**
Warmup variation	**-0,4%**

Warmup conditions

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

Color temperature change

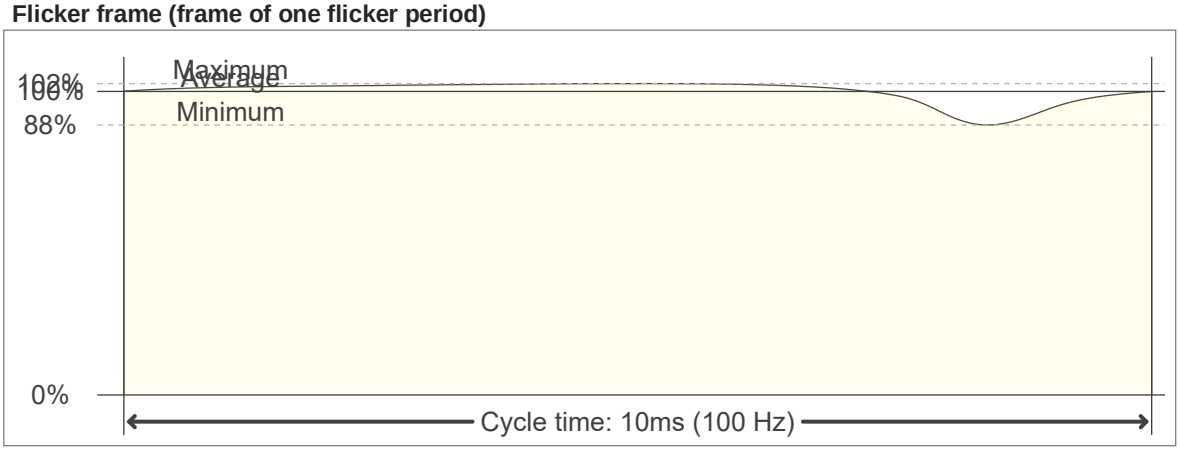
CCT start	CCT change	CCT end
2999 K	+1 K	3000 K

Output change

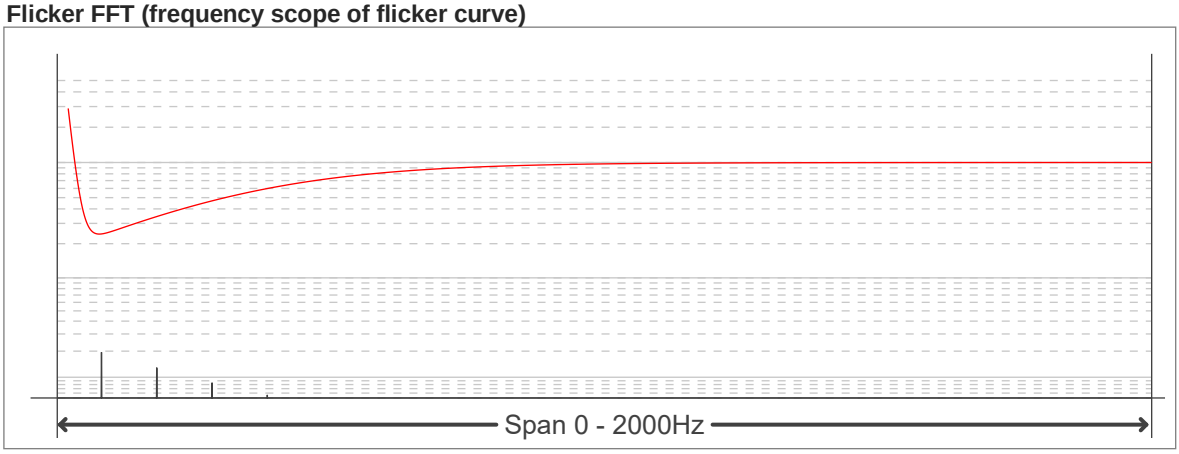
Output start	Output change	Output end
380 lm	-2 lm	378 lm

Flicker curve (complete sampled flicker signal)

Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:		100 Hz	
Flicker index:	0,01	JA8/10 40Hz	0,04 %
Flicker percentage:	7,28 %	JA8/10 90Hz	0,06 %
SVM: (Visual flicker)	0,15	JA8/10 200Hz	4,28 %
PstLM	0,03	JA8/10 400Hz	6,05 %
Mp	0,02	JA8/10 1000Hz	7,32 %

Flicker conditions:

Sample rate:	20000 samples/second