

Light efficiency:

46 Lumen/Watt

Light quality:

CRI: 82,9

Color temperature:

4000 K

Output: 6,43 lm

Peak: 2,24 cd

Power: 0,14 W

PF: 0,08

No photo

Tracking number: [VT240905-000806](#)

Product name:

805562

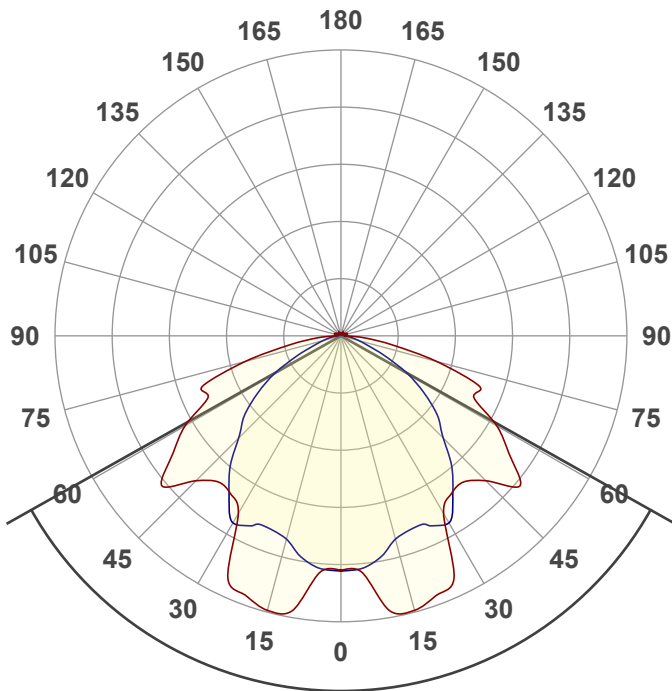
Item number:

805562

Date and time:

5-9-2024 11:08:49

Description:



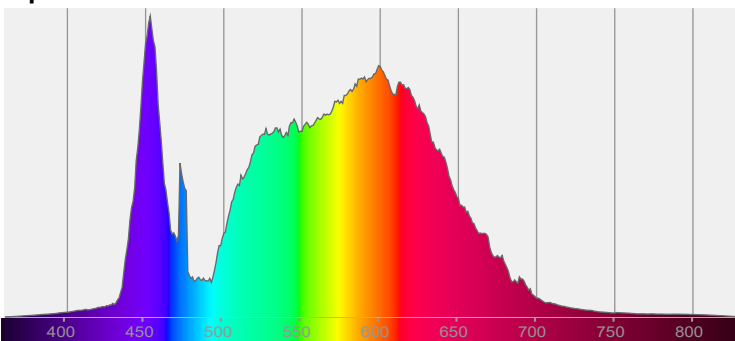
Beam angle

121,3°

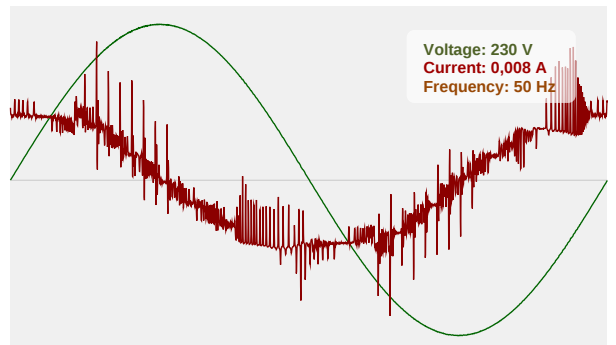


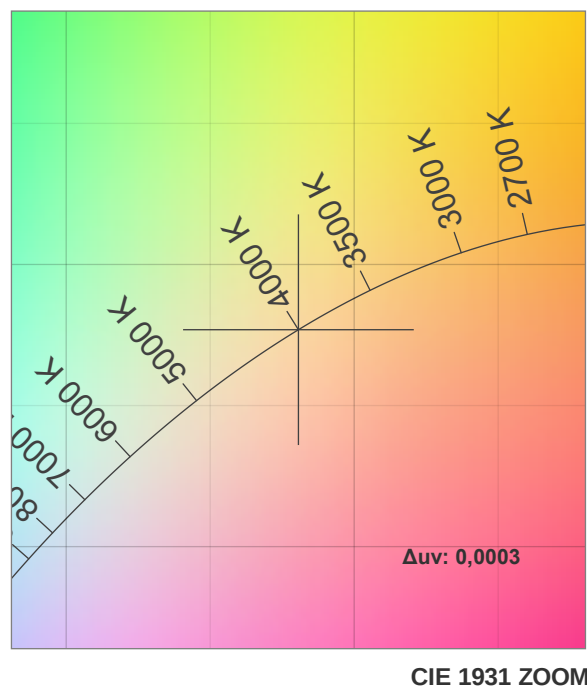
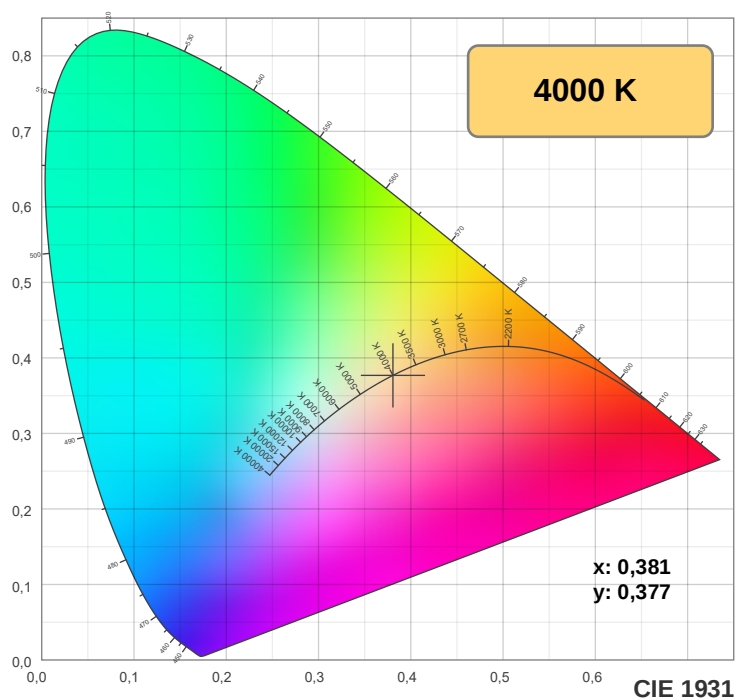
CIE 1931
x: 0,381
y: 0,377

Spectra



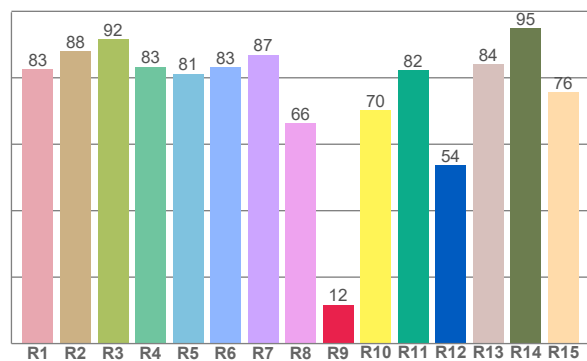
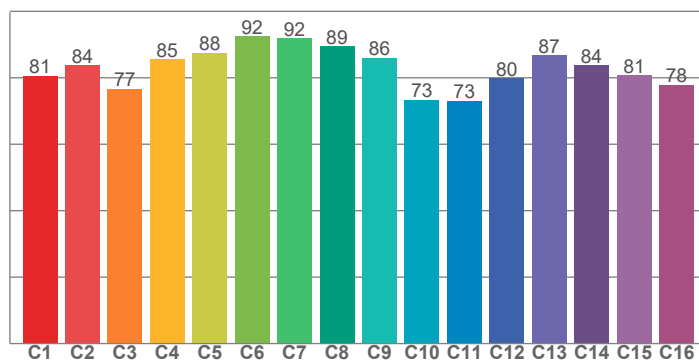
Power





TM-30: 82,8

CRI: 82,9 (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
82,6	88,1	91,6	83,4	81,2	83,2	87,0	66,4	11,7	70,3	82,4	53,7	84,0	94,9	75,7

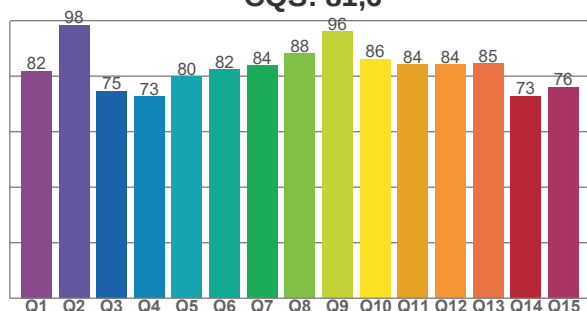
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80,6	83,7	76,7	85,5	87,5	92,4	91,9	89,4	86,1	73,3	73,0	79,8	86,7	83,8	80,7	77,8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81,8	98,3	74,6	72,7	79,8	82,5	83,8	88,2	96,1	86,1	84,2	84,2	84,5	72,9	76,1

CQS: 81,6



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
4000 K	82,9	11,7	82,8	96,7	81,6	0,381	0,377	0,225	0,334	0,0003

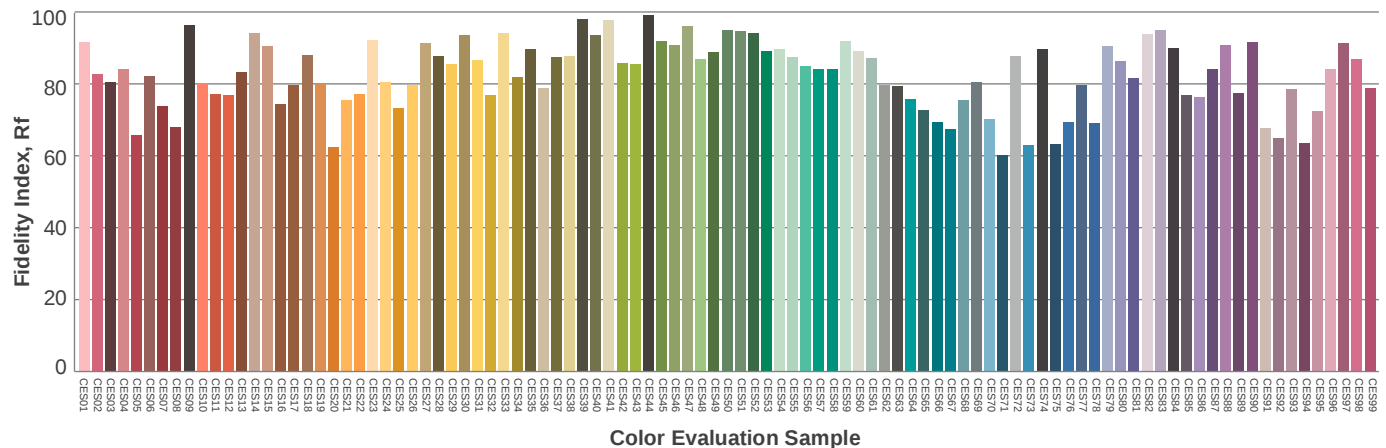
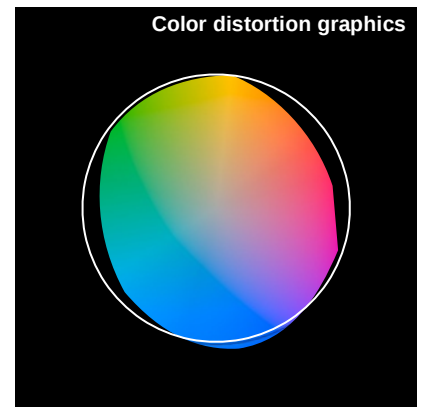
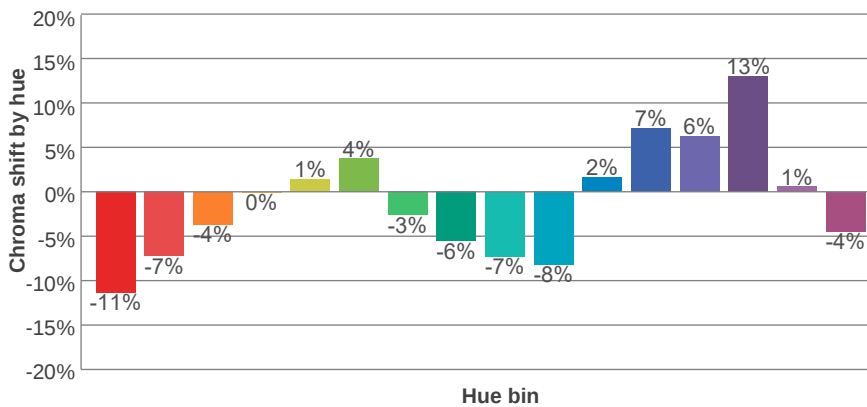
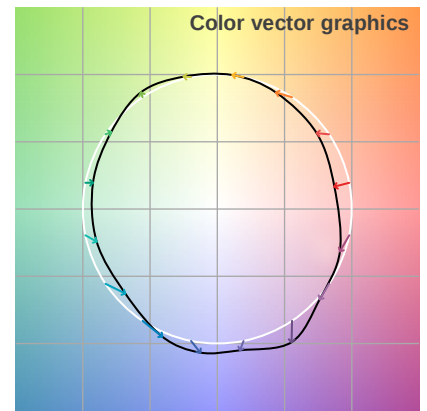
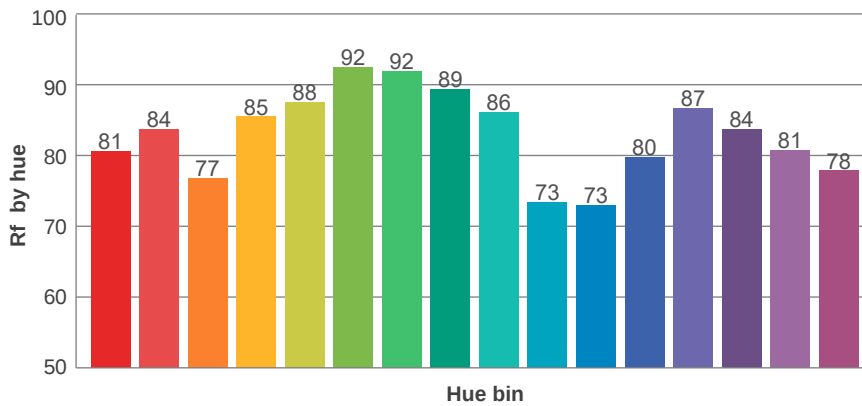
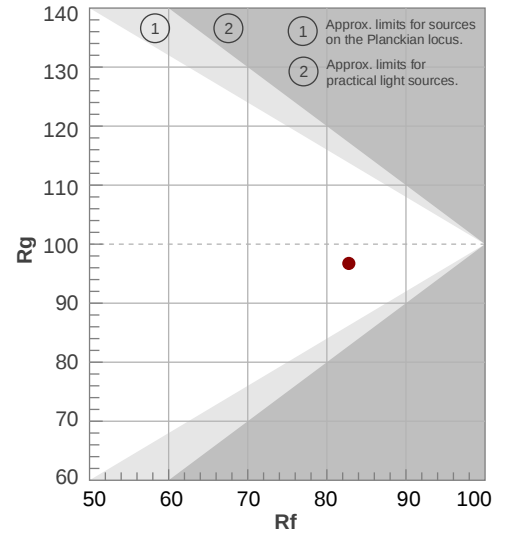
Rf 82,8

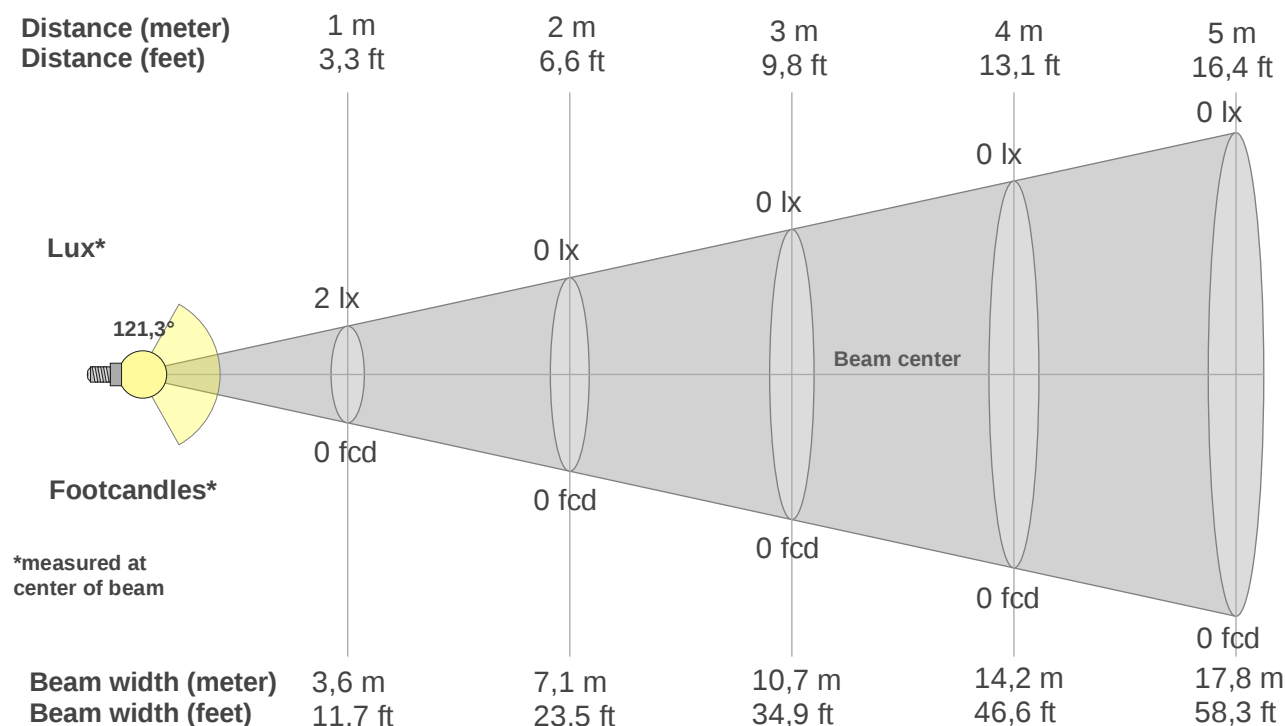
Fidelity index Rf

Rg 96,7

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	81	-11%	-1%
2	84	-7%	6%
3	77	-4%	12%
4	85	0%	8%
5	88	1%	5%
6	92	4%	-1%
7	92	-3%	-4%
8	89	-6%	-1%
9	86	-7%	6%
10	73	-8%	14%
11	73	2%	19%
12	80	7%	8%
13	87	6%	-4%
14	84	13%	-9%
15	81	1%	-13%
16	78	-4%	-13%




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
2lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
0,2fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	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°
1,73	1,75	2,05	2,09	2,04	1,97	1,51	1,42	1,41	1,51	1,72	1,51	1,33	1,08	1,08	0,73	0,38	0,18	0,05	0,02
100%	101%	119%	121%	118%	114%	87%	82%	81%	87%	99%	87%	77%	63%	63%	42%	22%	10%	3%	1%

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°
1,73	1,72	1,66	1,55	1,53	1,54	1,58	1,44	1,27	1,07	0,93	0,76	0,58	0,38	0,22	0,14	0,08	0,05	0,02	0,03
100%	99%	96%	90%	88%	89%	91%	83%	73%	62%	54%	44%	33%	22%	13%	8%	5%	3%	1%	1%

Intensities in 180° c-plane

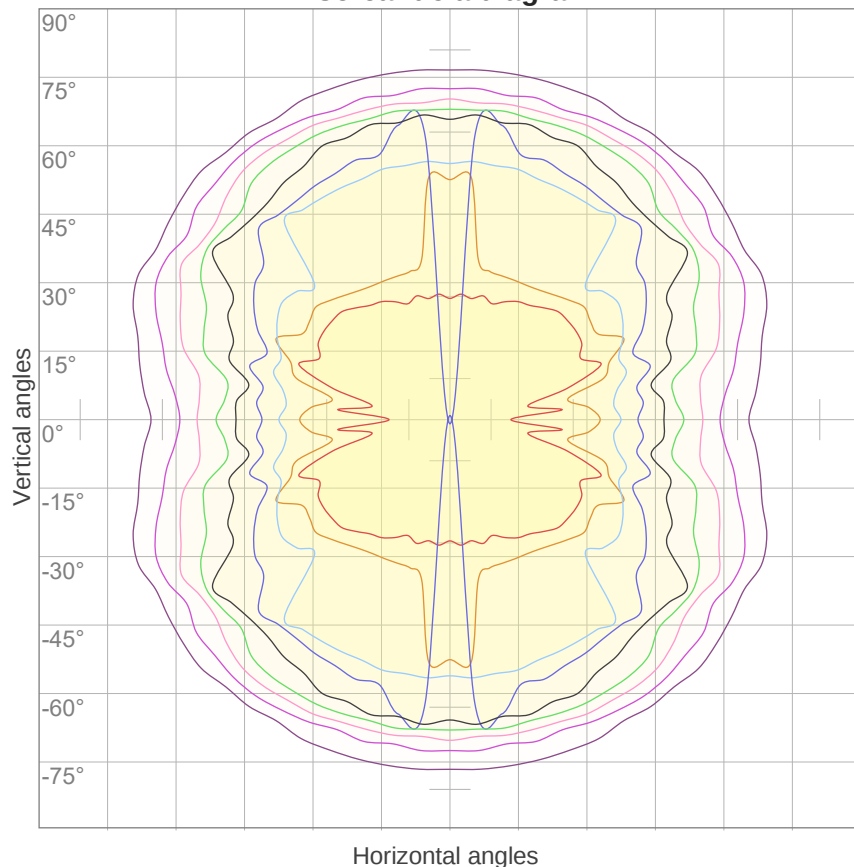
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
1,73	1,75	2,05	2,09	2,04	1,97	1,51	1,42	1,41	1,51	1,72	1,51	1,33	1,08	1,08	0,73	0,38	0,18	0,05	0,02
100%	101%	119%	121%	118%	114%	87%	82%	81%	87%	99%	87%	77%	63%	63%	42%	22%	10%	3%	1%

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°
1,73	1,72	1,66	1,55	1,53	1,54	1,58	1,44	1,27	1,07	0,93	0,76	0,58	0,38	0,22	0,14	0,08	0,05	0,02	0,03
100%	99%	96%	90%	88%	89%	91%	83%	73%	62%	54%	44%	33%	22%	13%	8%	5%	3%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
121,3°	164,2°	197,5°	71,2%	46,7%

iso-candela diagram



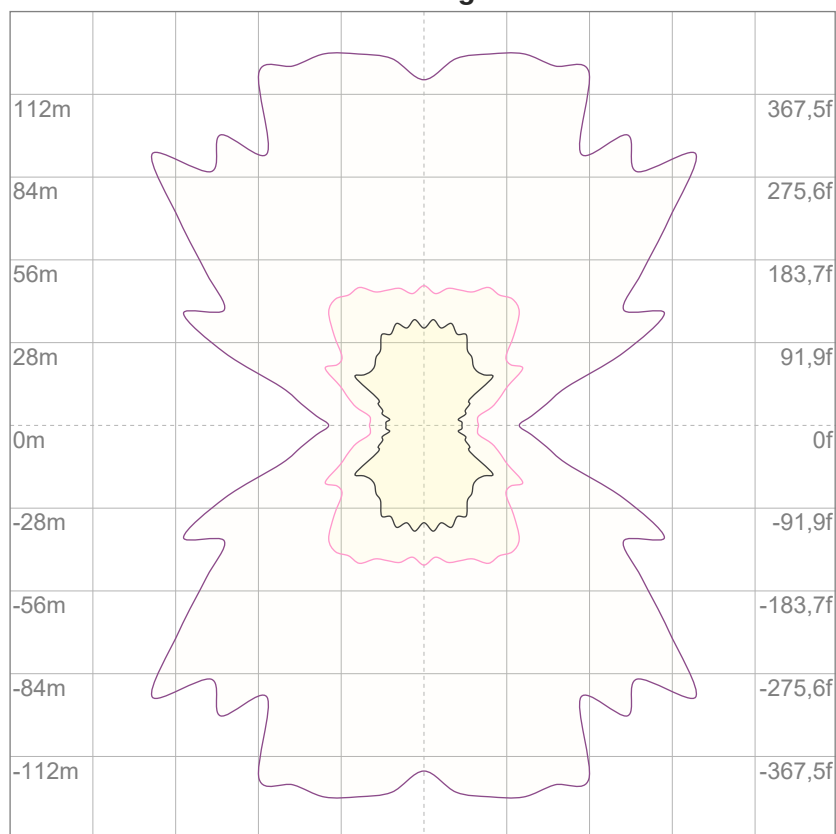
10%	0 cd
20%	0 cd
30%	1 cd
40%	1 cd
50%	1 cd
60%	1 cd
70%	1 cd
80%	1 cd
90%	2 cd

Conditions:

Number of c-planes: 72

Candela at center: 2 cd

iso-lux diagram



3%	519u lx
5%	865u lx
10%	1,73m lx
30%	5,19m lx
50%	8,65m lx

Conditions:

Number of c-planes: 72

Lux at center: 17,3m lx

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

Glare evaluation according to UGR

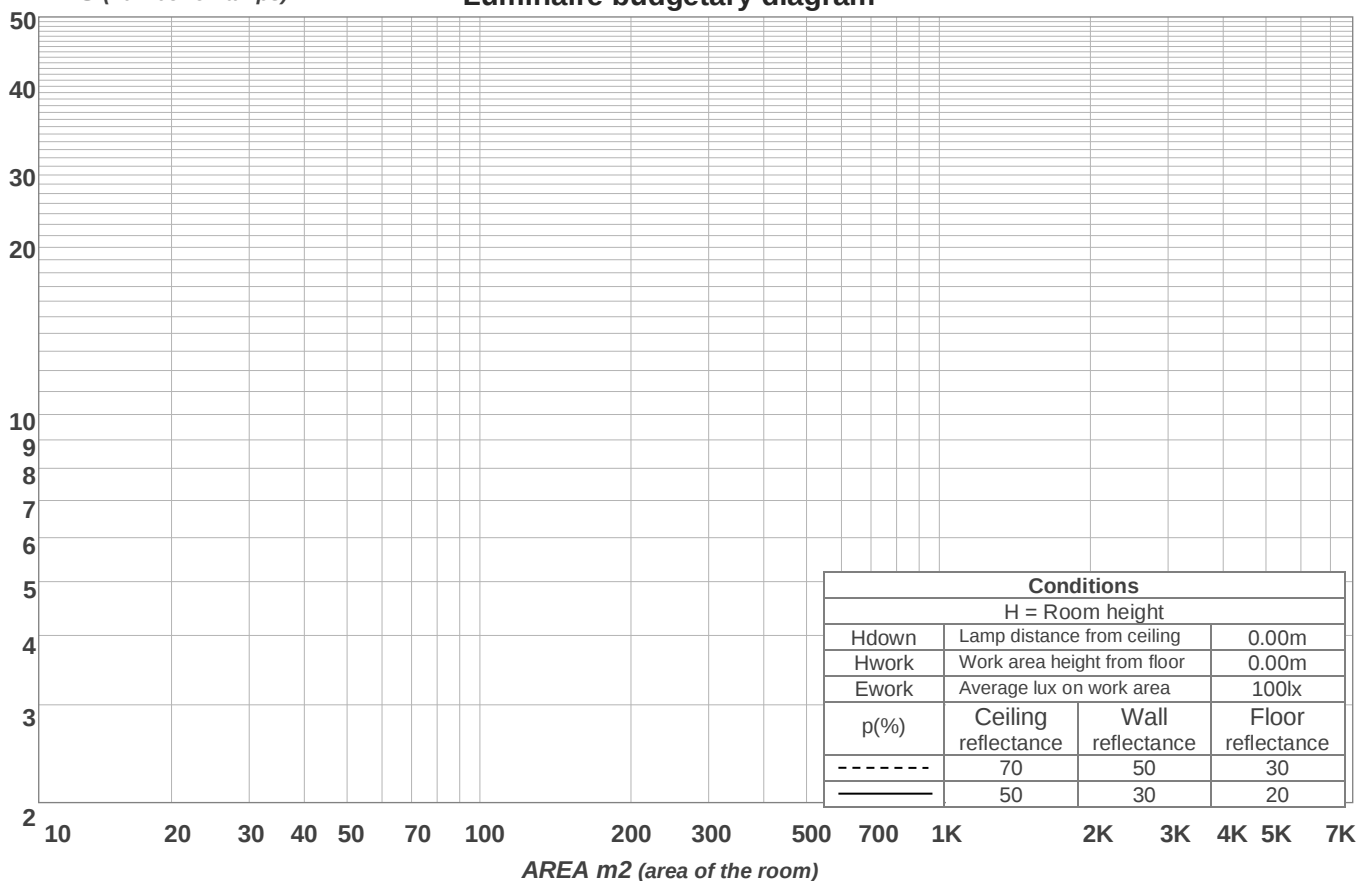
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	1,3	2,6	1,6	3,0	3,2	-1,2	0,1	-0,9	0,5	0,7
	3H	3,1	4,4	3,5	4,7	5,0	-0,4	0,9	0,1	1,3	1,6
	4H	3,8	5,0	4,2	5,4	5,7	-0,1	1,1	0,3	1,4	1,8
	6H	4,2	5,3	4,5	5,6	6,0	0,0	1,1	0,3	1,4	1,8
	8H	4,2	5,3	4,6	5,7	6,1	0,0	1,0	0,4	1,4	1,9
	12H	4,2	5,3	4,7	5,7	6,2	-0,1	1,0	0,4	1,4	1,9
4H	2H	1,9	3,1	2,3	3,4	3,8	0,1	1,3	0,6	1,7	2,0
	3H	3,9	5,0	4,3	5,3	5,8	1,4	2,4	1,8	2,8	3,3
	4H	4,7	5,7	5,2	6,1	6,7	1,7	2,7	2,2	3,1	3,7
	6H	5,1	6,0	5,7	6,4	6,9	1,9	2,8	2,4	3,2	3,6
	8H	5,2	6,0	5,8	6,5	6,9	1,9	2,7	2,4	3,1	3,6
	12H	5,3	5,9	5,8	6,4	7,0	1,9	2,6	2,4	3,0	3,6
8H	4H	4,9	5,7	5,4	6,1	6,6	2,3	3,1	2,8	3,5	4,0
	6H	5,5	6,1	6,0	6,6	7,2	2,6	3,3	3,2	3,8	4,4
	8H	5,6	6,2	6,2	6,8	7,5	2,7	3,3	3,3	3,9	4,6
	12H	5,7	6,2	6,4	6,8	7,4	2,8	3,2	3,4	3,8	4,4
12H	4H	4,9	5,6	5,4	6,1	6,6	2,3	3,0	2,9	3,5	4,0
	6H	5,5	6,1	6,1	6,6	7,3	2,8	3,3	3,3	3,9	4,6
	8H	5,7	6,2	6,3	6,7	7,4	2,9	3,4	3,5	3,9	4,6
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,1					0,2 / -0,3				
S = 1.5H		0,3 / -0,3					0,2 / -0,4				
S = 2.0H		0,7 / -0,6					0,8 / -1,3				
CIE 117-1995. Corrected glare indices referring to 6,43 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	109	109	109	104	104	104	99	99	99	97
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	86	84	81	79
2	97	88	80	74	94	86	79	73	81	76	71	78	73	69	74	70	67	64
3	88	76	68	61	85	75	67	60	71	64	59	68	62	57	65	60	56	53
4	80	67	58	51	77	66	57	50	63	55	49	60	54	48	57	52	47	45
5	73	60	50	44	71	58	50	43	56	48	42	54	47	42	51	46	41	39
6	67	54	44	38	65	53	44	37	50	43	37	48	41	36	46	40	36	33
7	62	49	39	33	61	48	39	33	46	38	32	44	37	32	42	36	31	29
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26
9	54	40	32	26	53	40	32	26	38	31	26	37	30	26	36	30	25	23
10	51	37	29	24	49	37	29	24	35	28	23	34	28	23	33	27	23	21

LAMPS (number of lamps)

Luminaire budgetary diagram



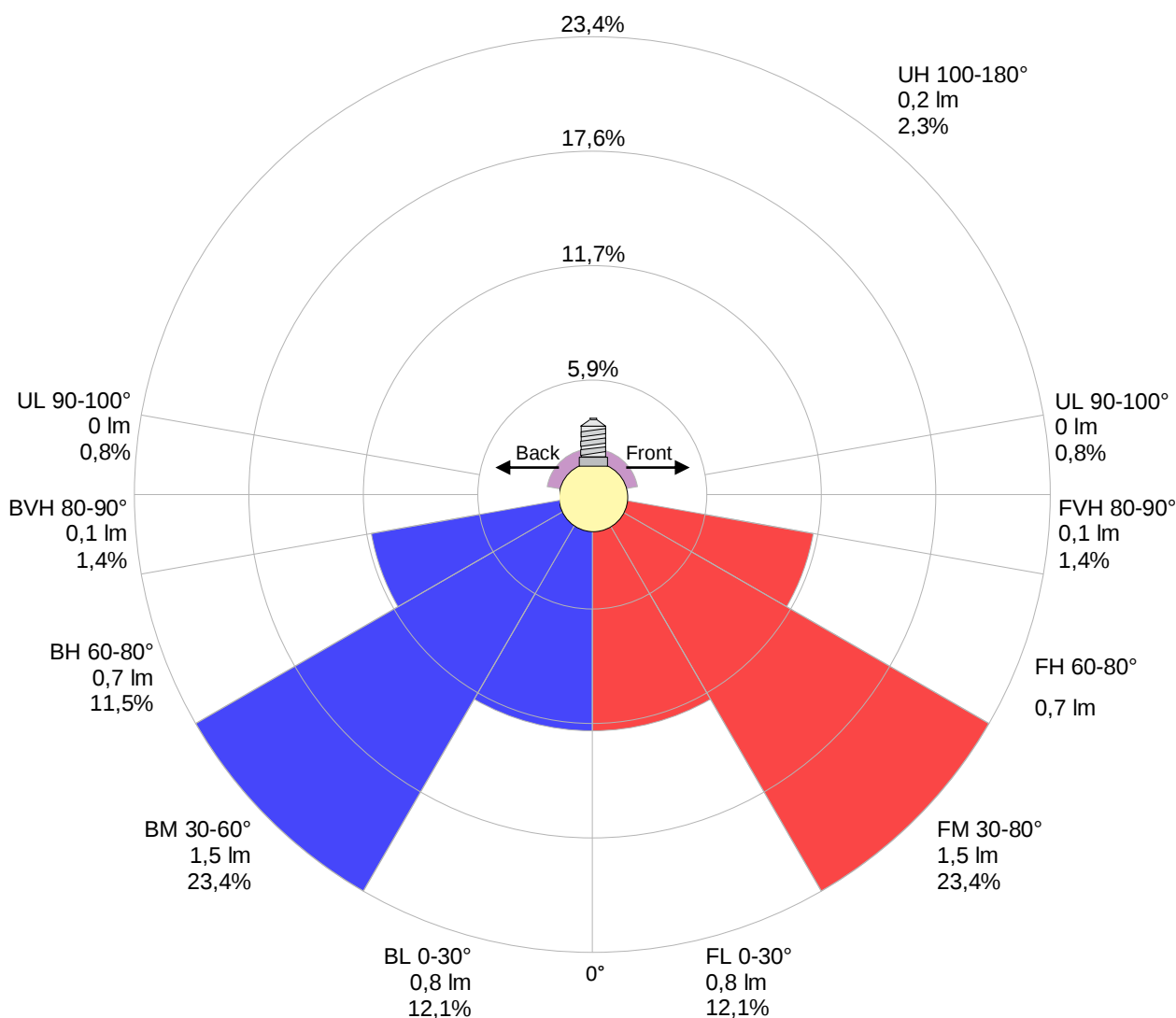
Zonal Lumen Summary

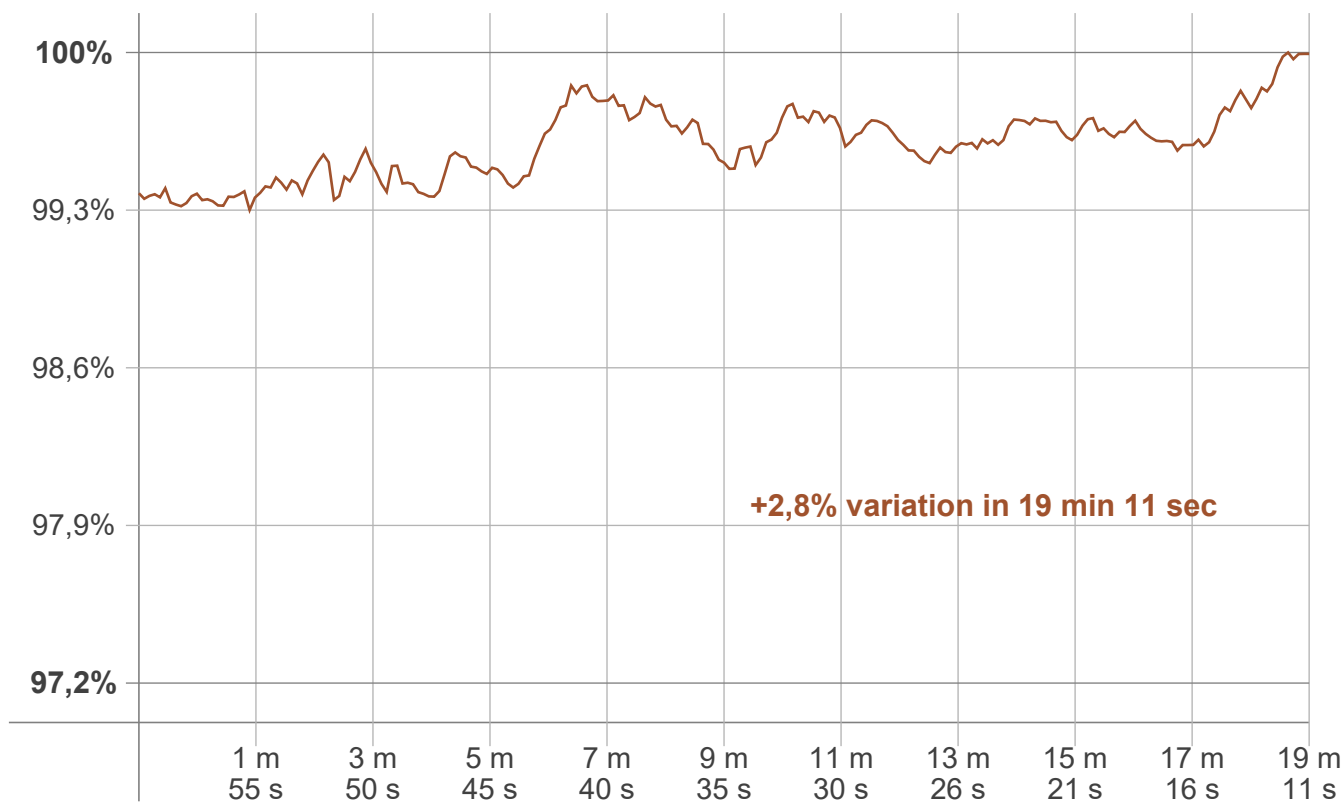
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	0,547 lm	0,849 lm	0,947 lm	1,01 lm	1,06 lm	0,897 lm	0,585 lm	0,171 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,048 lm	0,048 lm	0,032 lm	0,024 lm	0,018 lm	0,013 lm	0,009 lm	0,006 lm	0,002 lm

LCS table

BUG rating:	B0 U0 G0	
Forward light	Lumens	Lumens %
Low(0-30):	0,8	12,1%
Medium(30-60):	1,5	23,4%
High(60-80):	0,7	11,5%
Very high(80-90):	0,1	1,4%
Back light		
Low(0-30):	0,8	12,1%
Medium(30-60):	1,5	23,4%
High(60-80):	0,7	11,5%
Very high(80-90):	0,1	1,4%
Uplight		
Low(90-100):	0	0,8%
High(100-180):	0,2	2,3%

LCS graph



Warmup curve

Warmup result

Warmup time:	Lamp stabilized in 19 min 11 sec
Warmup variation	+2,8%

Warmup conditions

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

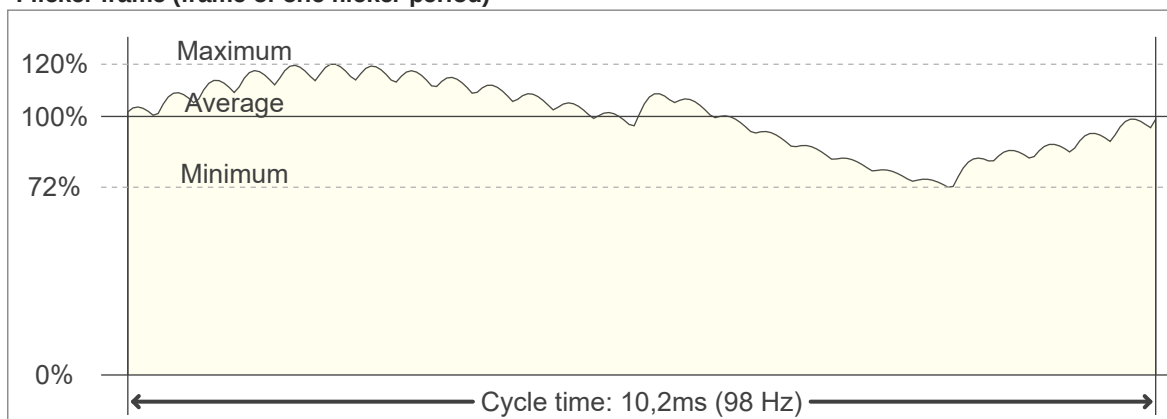
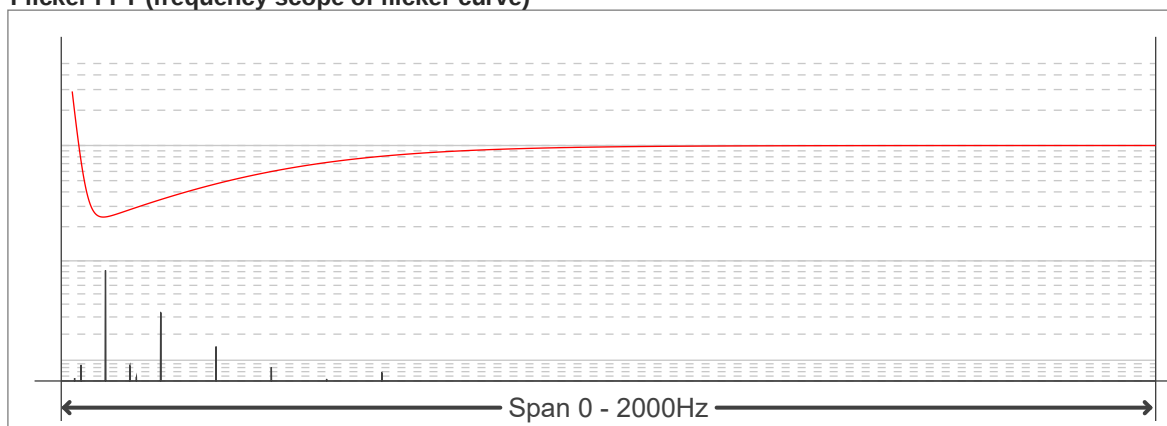
Color temperature change

CCT start	CCT change	CCT end
4003 K	-3 K	4000 K

Output change

Output start	Output change	Output end
6,41 lm	+0,03 lm	6,43 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:		98,04 Hz	
Flicker index:	0,06	JA8/10 40Hz	2,3 %
Flicker percentage:	25,43 %	JA8/10 90Hz	3,75 %
SVM: (Visual flicker)	0,64	JA8/10 200Hz	20,28 %
PstLM	2,53	JA8/10 400Hz	22,47 %
Mp	1,99	JA8/10 1000Hz	23,29 %

Flicker conditions:

Sample rate:	20000 samples/second
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