



Light efficiency:

91 Lumen/Watt

Light quality:

CRI: 94,5

Color temperature:

2738 K

Output: 218 lm

Peak: 435 cd

Power: 2,4 W

PF: 1,0



Product name:

Sta-Maria-6_510mm_927_Inlay-Lens-Wallwasher

Item number:

NP/L1C/01E/0510/927/ILWW

Date and time:

15.08.2025 10:35:44

Description:

Rank: C80-AC-8GB

Tolerances:

Lumen +/-4%

Candela +/-2,5%

Colour Temp +/-35 Kelvin

CRI +/-0,7

Angular Resolution: 1 Degree Step

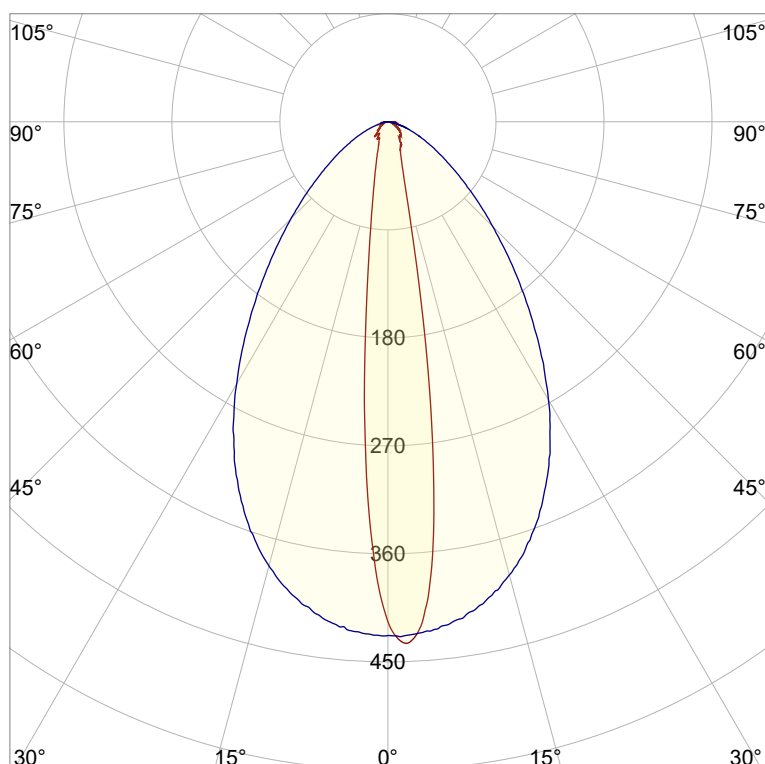
Last Calibration 13.10.2023

Tester: Peter Ulrich

Test Site: Lichtlabor

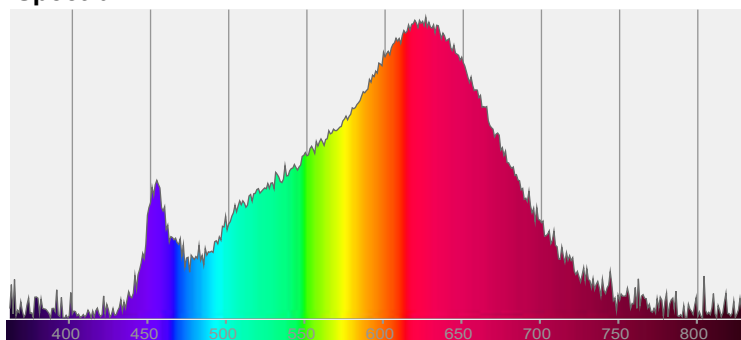
Gaustrasse 13

55411 Bingen am Rhein



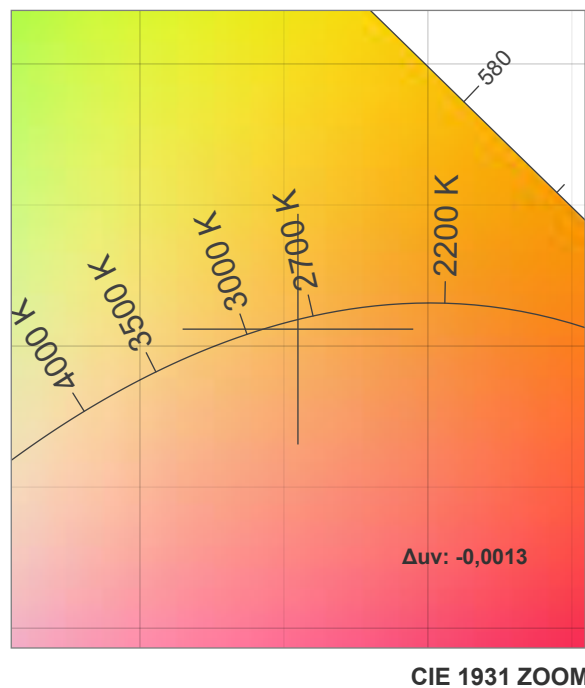
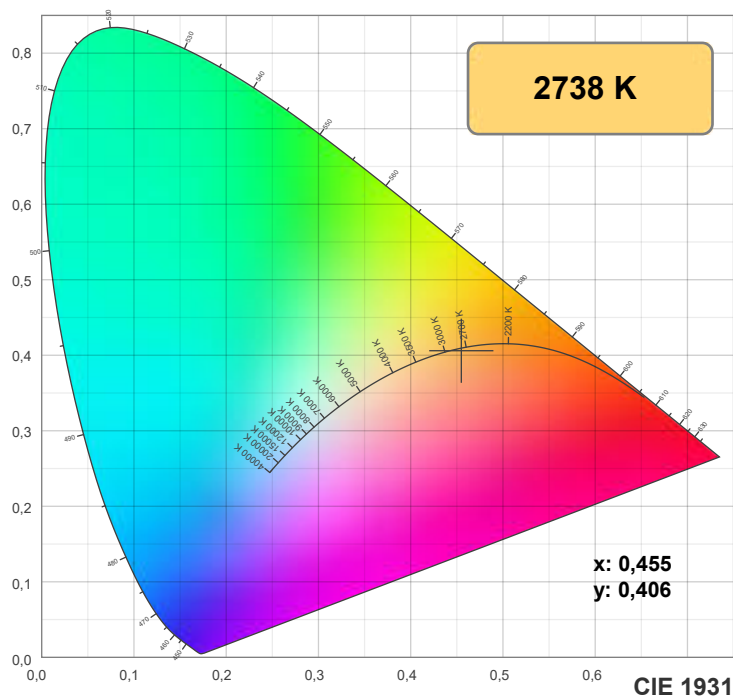
CIE 1931
x: 0,455
y: 0,406

Spectra

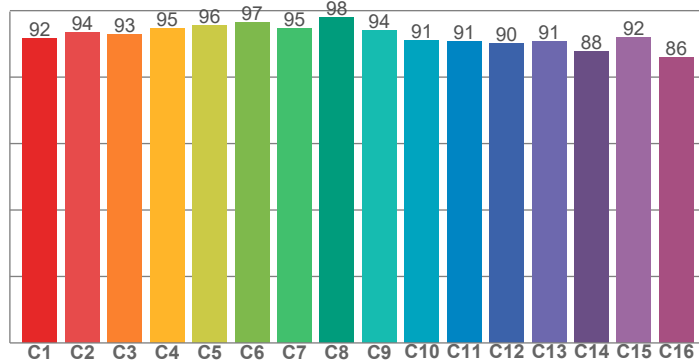


Power

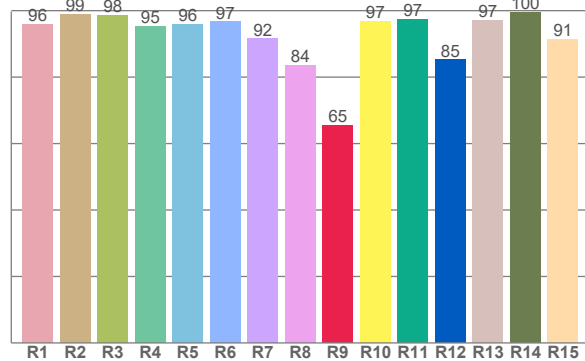
Voltage: 48,0 V
Current: 0,050 A
Frequency: 0 Hz



TM30: 92,4



CRI: 94,5 (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
95,8	99,0	98,5	95,4	96,0	96,6	91,5	83,5	65,5	96,9	97,4	85,2	97,1	99,5	91,3

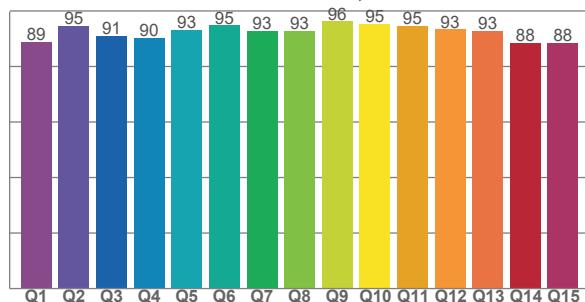
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,6	93,5	92,8	94,7	95,5	96,5	94,6	97,9	94,0	91,1	90,6	90,0	90,6	87,8	92,0	85,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88,8	94,6	90,9	90,4	93,1	94,8	92,9	92,7	96,2	95,4	94,5	93,4	92,7	88,5	88,5

CQS: 92,0



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
2738 K	94,5	65,5	92,4	99,3	92,0	0,455	0,406	0,261	0,350	-0,0013



TM30 details



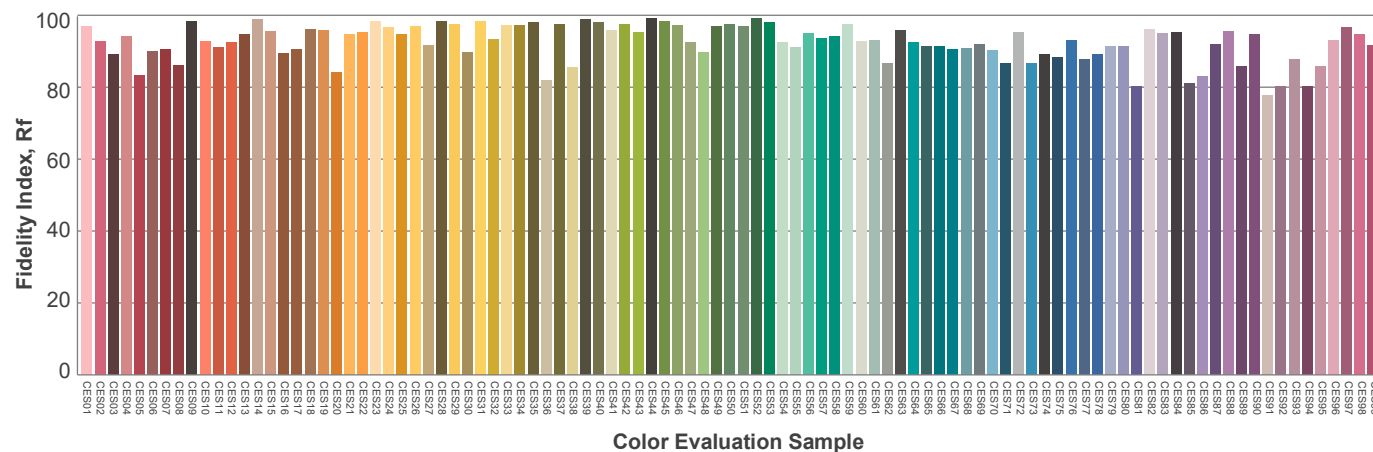
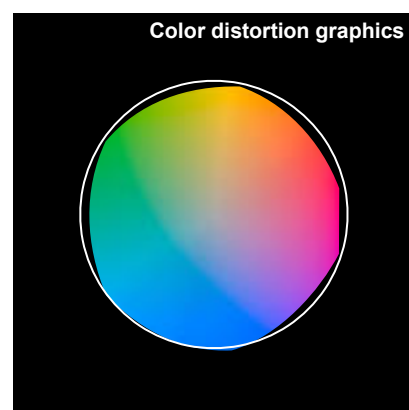
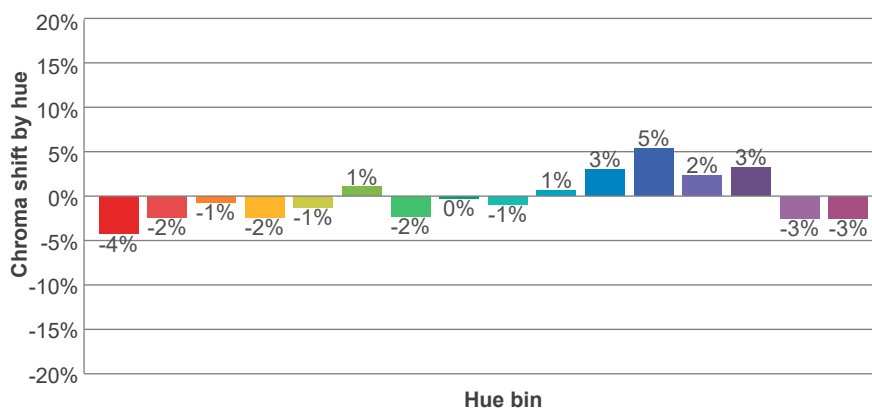
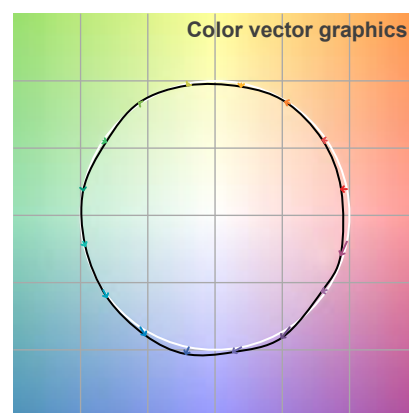
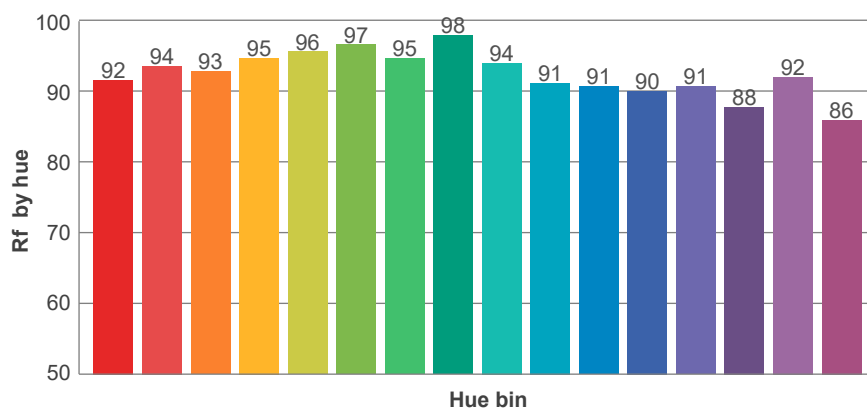
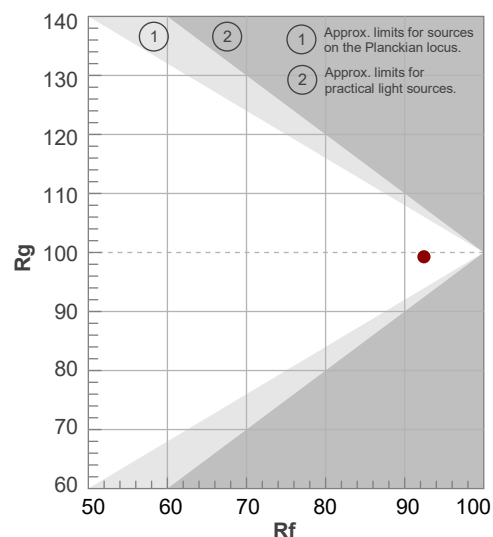
Rf 92,4

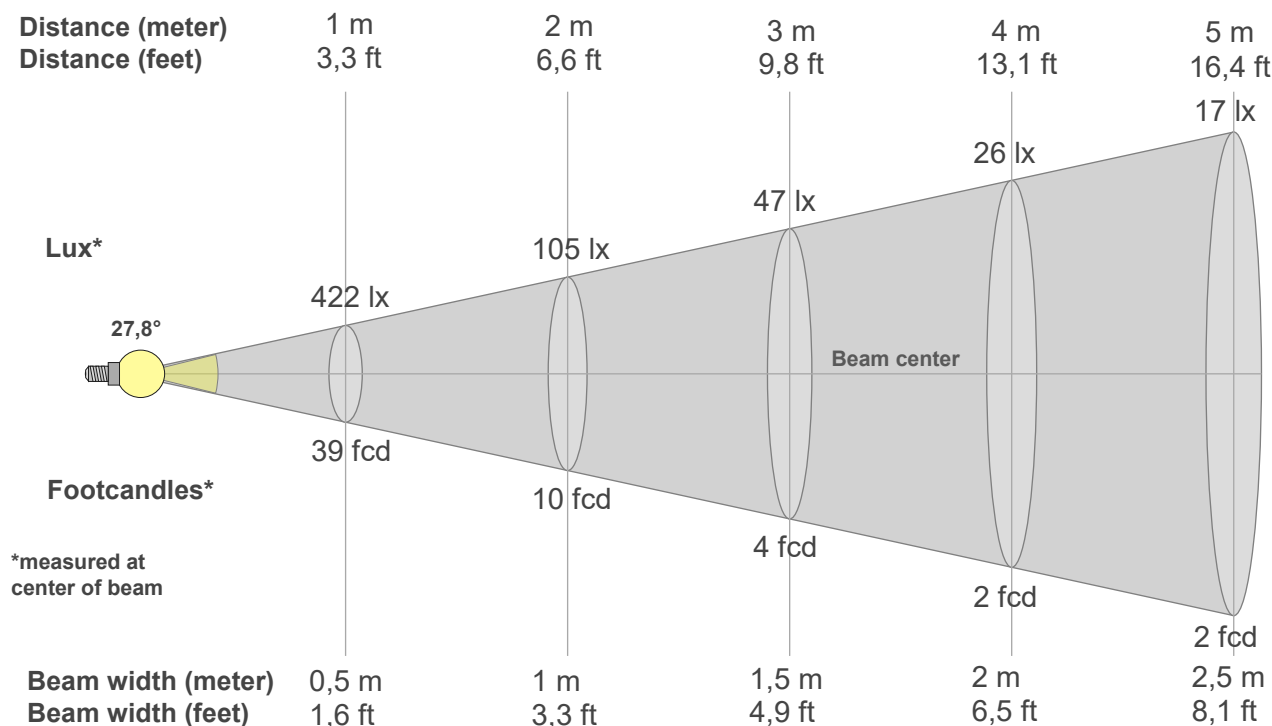
Fidelity index Rf

Rg 99,3

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	1%
2	94	-2%	2%
3	93	-1%	3%
4	95	-2%	0%
5	96	-1%	1%
6	97	1%	1%
7	95	-2%	0%
8	98	0%	1%
9	94	-1%	3%
10	91	1%	6%
11	91	3%	6%
12	90	5%	-1%
13	91	2%	-7%
14	88	3%	-9%
15	92	-3%	-3%
16	86	-3%	-11%





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
422lx	105lx	47lx	26lx	17lx	12lx	9lx	7lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx
39,2fcd	9,8fcd	4,4fcd	2,4fcd	1,6fcd	1,1fcd	0,8fcd	0,6fcd	0,5fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd

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°
422	435	416	358	266	171	102	66	48	38	32	28	26	24	23	22	20	17	16	16
100%	103%	99%	85%	63%	41%	24%	16%	11%	9%	8%	7%	6%	6%	5%	5%	5%	4%	4%	4%

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°
422	427	425	421	415	408	399	389	377	363	348	331	313	293	273	252	232	211	191	171
100%	101%	101%	100%	98%	97%	95%	92%	89%	86%	83%	79%	74%	69%	65%	60%	55%	50%	45%	41%

Intensities in 180° c-plane

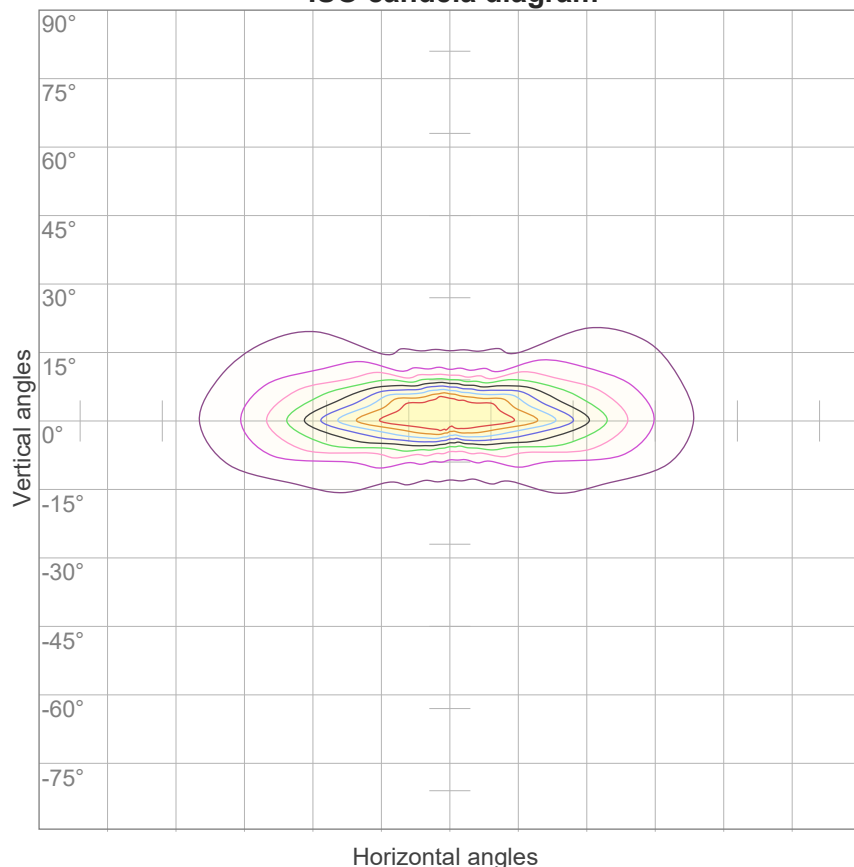
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
422	357	270	180	115	79	57	44	35	29	24	21	19	16	15	16	17	14	13	13
100%	85%	64%	43%	27%	19%	14%	11%	8%	7%	6%	5%	4%	4%	4%	4%	4%	3%	3%	3%

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°
422	428	426	423	419	413	405	396	386	373	359	343	326	308	288	268	246	226	205	185
100%	102%	101%	100%	99%	98%	96%	94%	91%	88%	85%	81%	77%	73%	68%	63%	58%	54%	49%	44%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,8°	60,5°	118,5°	89,4%	75,1%

ISO candela diagram



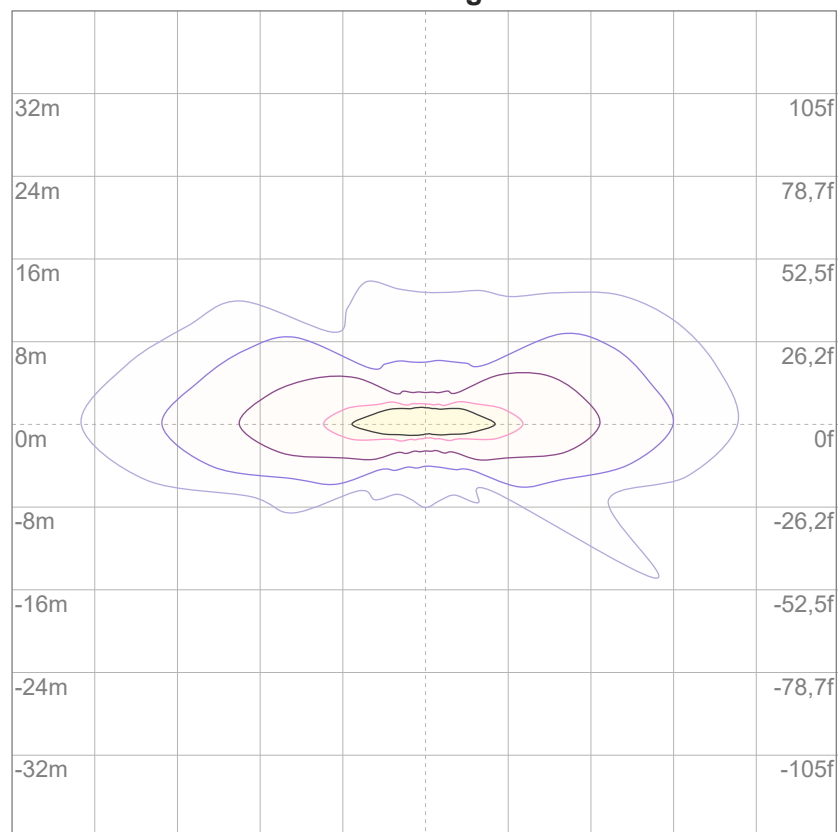
10%	42 cd
20%	84 cd
30%	127 cd
40%	169 cd
50%	211 cd
60%	253 cd
70%	295 cd
80%	337 cd
90%	380 cd

Conditions:

Number of c-planes: 16

Candela at center: 422 cd

ISO lux diagram



3%	0,127 lx
5%	0,211 lx
10%	0,422 lx
30%	1,27 lx
50%	2,11 lx

Conditions:

Number of c-planes: 16

Lux at center: 4,22 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				
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
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				
Standard table	n/a					n/a				
Correction summand	n/a					n/a				
Corrected glare indices referring to 218 lm total luminous flux										

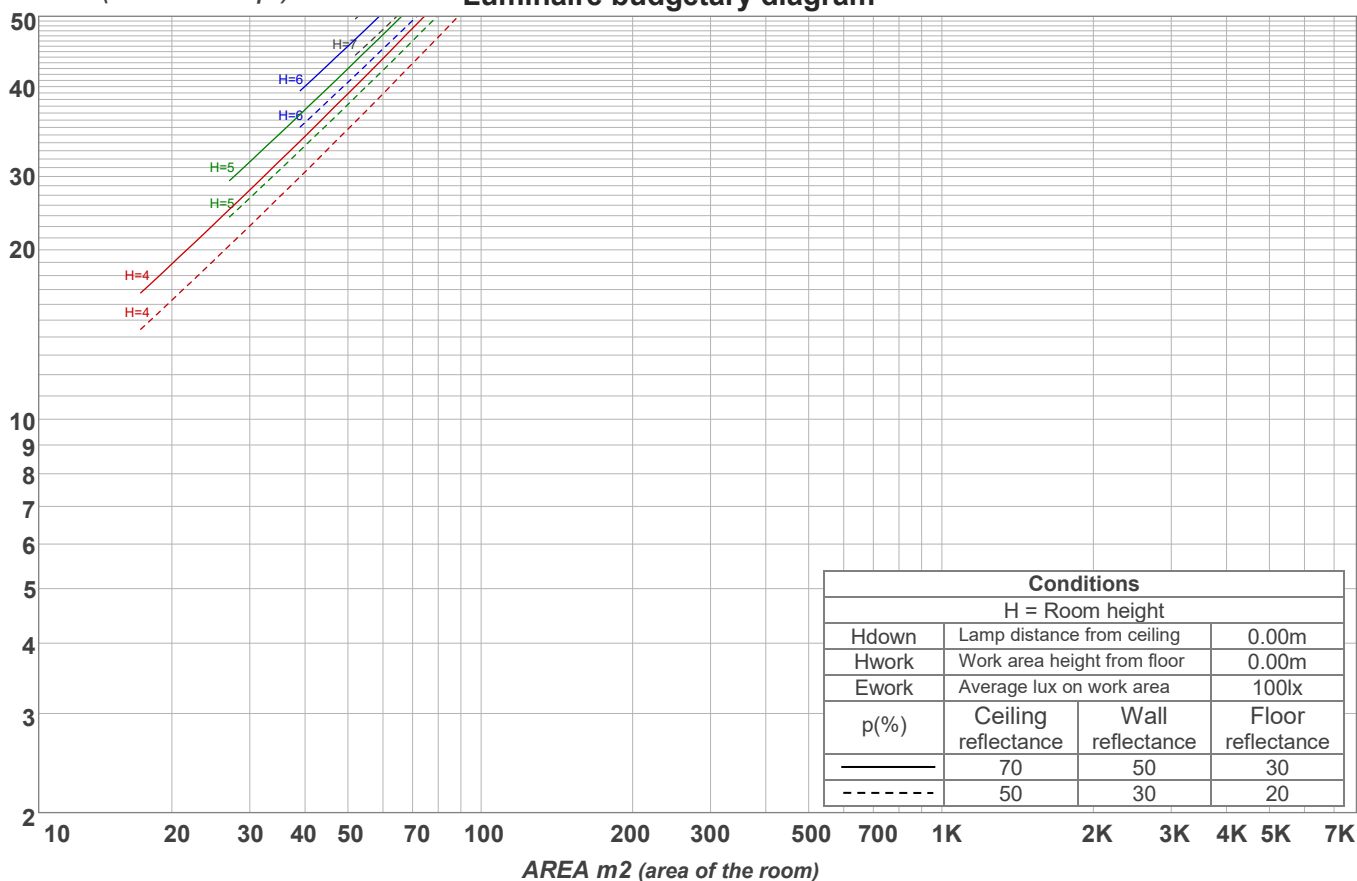
UGR data could not be calculated due to missing/wrong symmetry. Go to Edit -> Photometric -> Corrections and select Correct asymmetry (UGR not defined for asymmetrical distributions)..

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	86	76	69	63	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	50	48
9	69	58	52	47	68	58	51	47	57	51	47	56	51	47	55	50	47	45
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43

LAMPS (number of lamps)

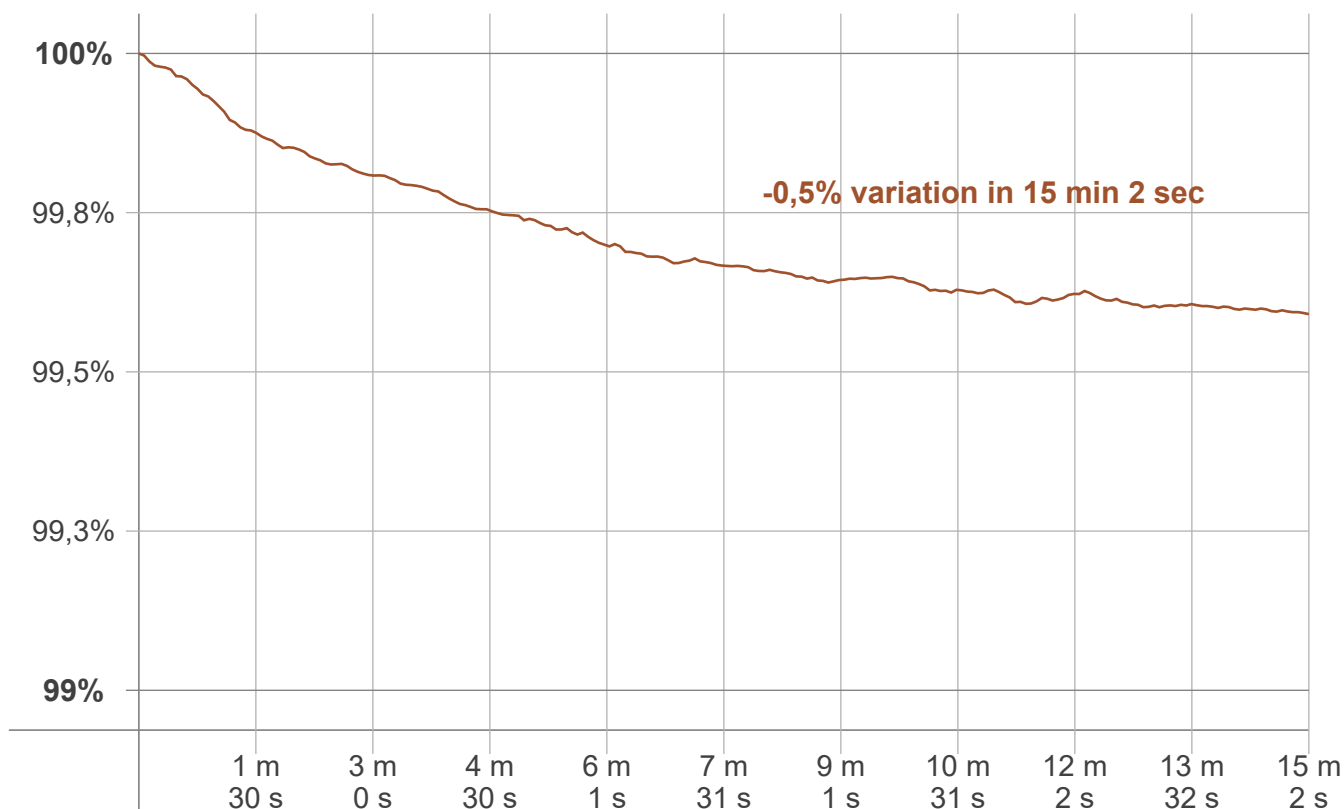
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
30,7 lm	44,8 lm	39,8 lm	33,9 lm	26,7 lm	18,7 lm	11,3 lm	6,96 lm	4,87 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,012 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm

Warmup curve



Warmup result

Warmup time:	Lamp stabilized in 15 min 2 sec
Warmup variation	-0,5%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2739 K	-1 K	2738 K

Output change

Output start	Output change	Output end
219 lm	-1 lm	218 lm