

Light efficiency:

81 Lumen/Watt

Light quality:

CRI: 83,1

Color temperature:

3980 K

Output: 3504 lm

Peak: 1521 cd

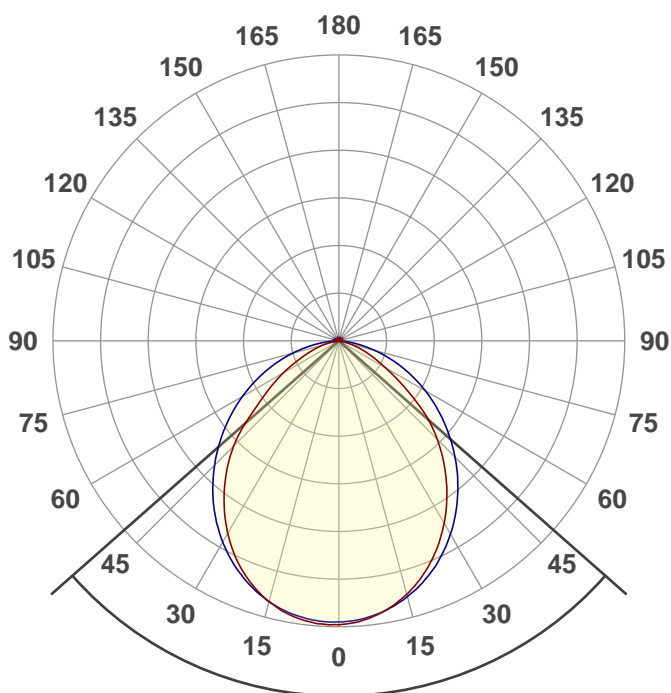
Power: 43,4 W

PF: 1,0



Product name:

E0269-ARTEM-S-2x13.8W(LV2)-PH-4K-OPA 02-BK



Beam angle

97,2°



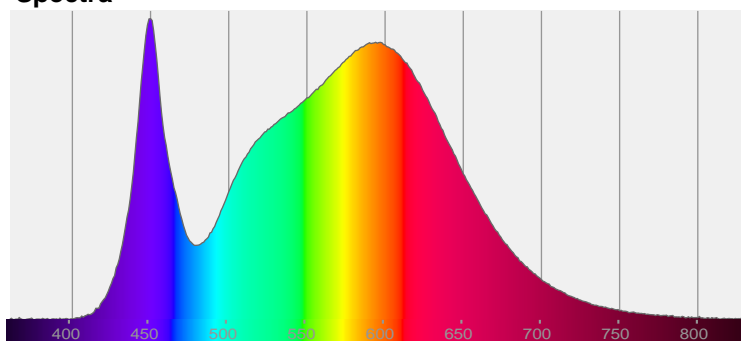
CIE 1931
x: 0,381
y: 0,374

THD Values:

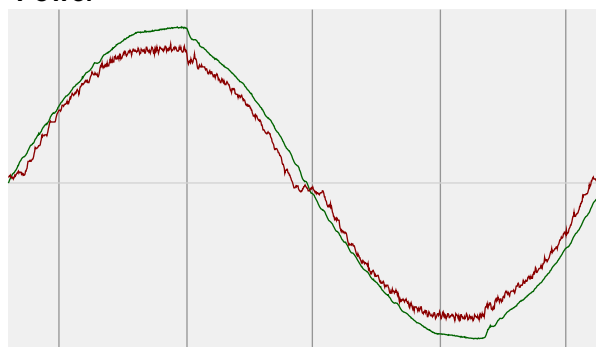
Voltage: 2,03%

Current: 5,65%

Spectra

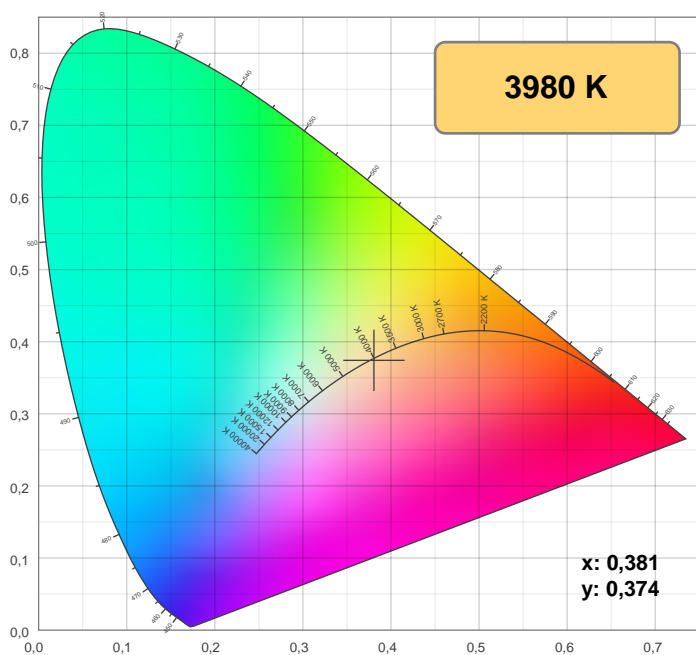


Power



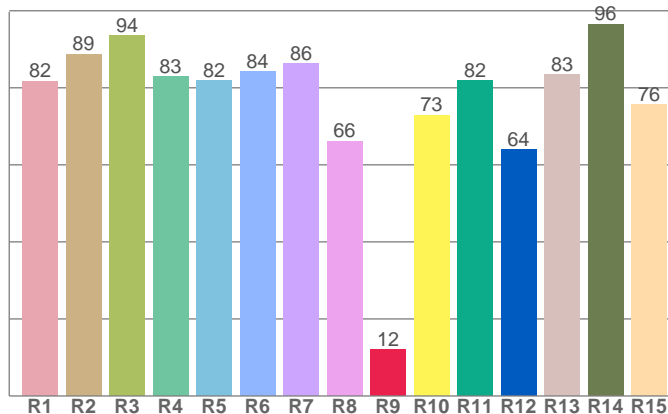
Voltage: 112 V
Current: 0,387 A
Frequency: 60 Hz

Color details



CIE 1931

CRI: 83,1 (R1-R8)

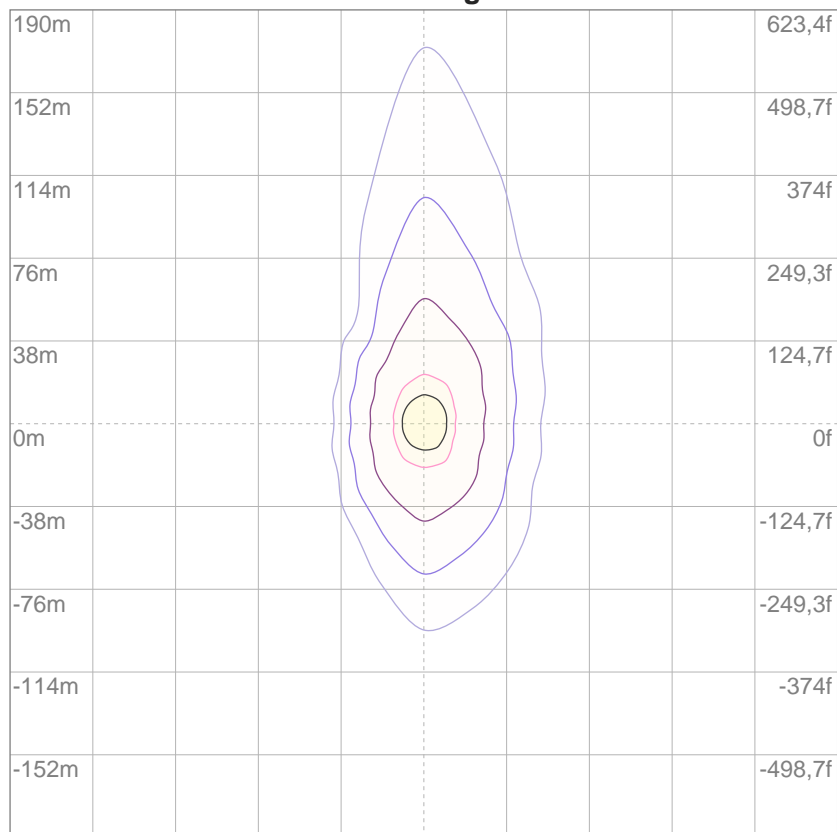


CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	9	R10	R11	R12	R13	R14	R15
81,7	88,7	93,6	82,8	81,8	84,2	86,2	66,1	12,0	72,9	81,8	63,9	83,4	96,4	75,7

ISO Diagrams

ISO lux diagram



3%	0,453 lx
5%	0,756 lx
10%	1,51 lx
30%	4,53 lx
50%	7,56 lx

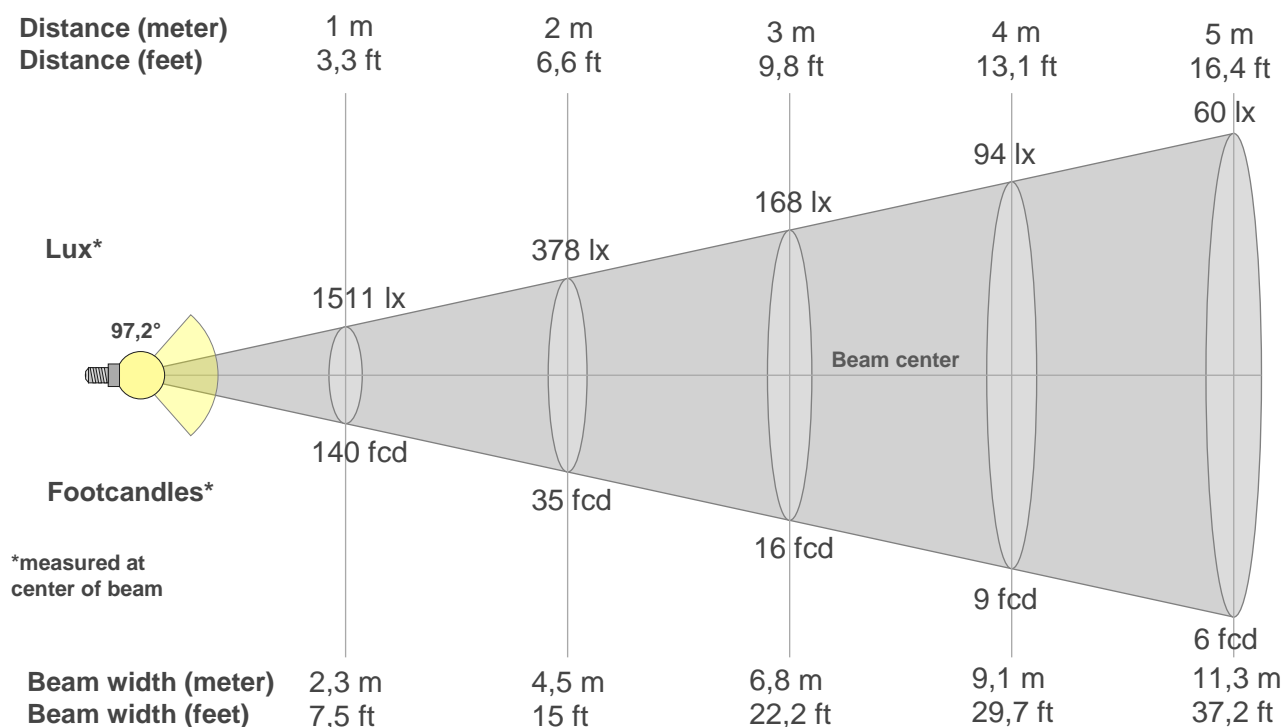
Conditions:

Number of c-planes: 12

Lux at center: 15,1 lx

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

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
1511lx	378lx	168lx	94lx	60lx	42lx	31lx	24lx	19lx	15lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx
140,4fcd	35,1fcd	15,6fcd	8,8fcd	5,6fcd	3,9fcd	2,9fcd	2,2fcd	1,7fcd	1,4fcd	1,2fcd	1fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd	0,4fcd	0,4fcd

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°
1511	1498	1459	1401	1324	1232	1125	1006	878	743	593	423	288	193	119	59	20	5	4	4
100%	99%	97%	93%	88%	82%	74%	67%	58%	49%	39%	28%	19%	13%	8%	4%	1%	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°
1511	1489	1460	1414	1354	1279	1192	1094	988	877	763	647	533	419	306	199	105	34	7	6
100%	99%	97%	94%	90%	85%	79%	72%	65%	58%	50%	43%	35%	28%	20%	13%	7%	2%	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°
1511	1512	1487	1442	1375	1290	1187	1068	938	795	613	462	343	233	152	91	41	11	4	4
100%	100%	98%	95%	91%	85%	79%	71%	62%	53%	41%	31%	23%	15%	10%	6%	3%	1%	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°
1511	1498	1478	1442	1388	1321	1241	1149	1047	938	825	710	595	480	366	256	154	68	13	6
100%	99%	98%	95%	92%	87%	82%	76%	69%	62%	55%	47%	39%	32%	24%	17%	10%	4%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
97,2°	146,1°	163,3°	84,9%	61,2%

TM30 details

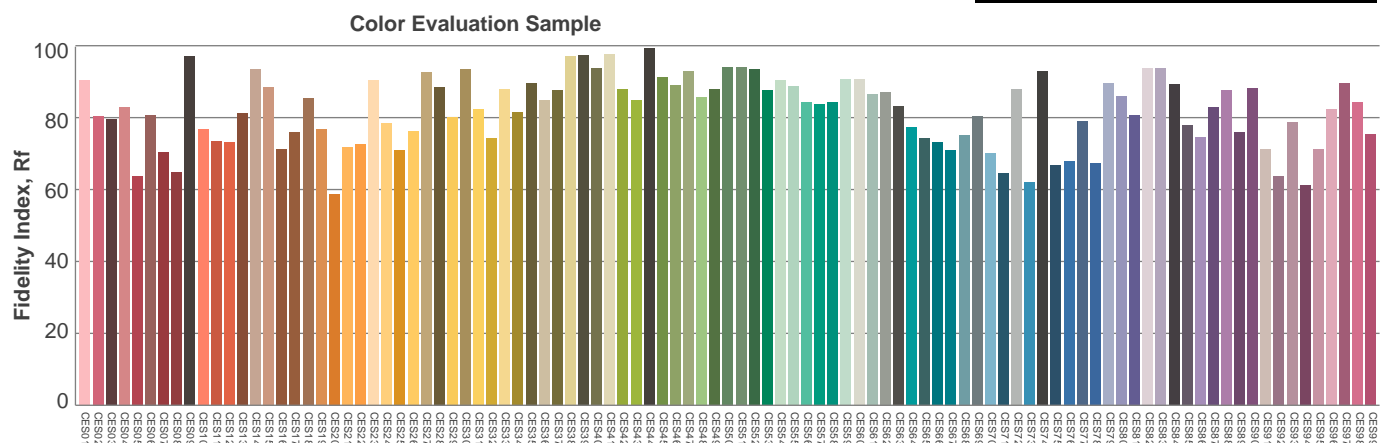
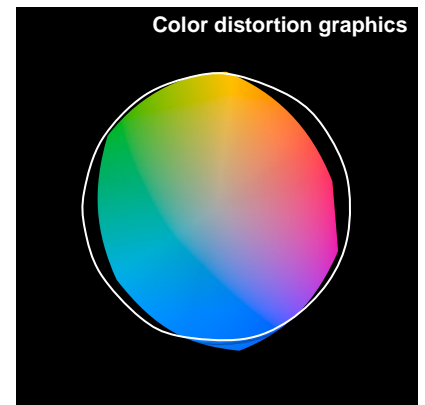
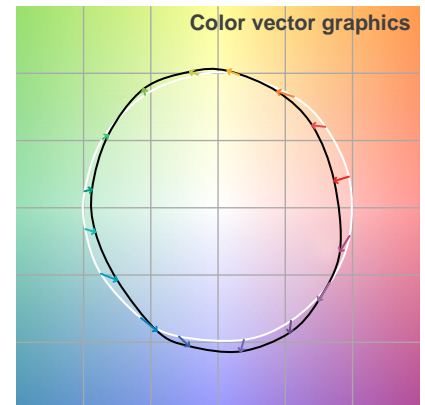
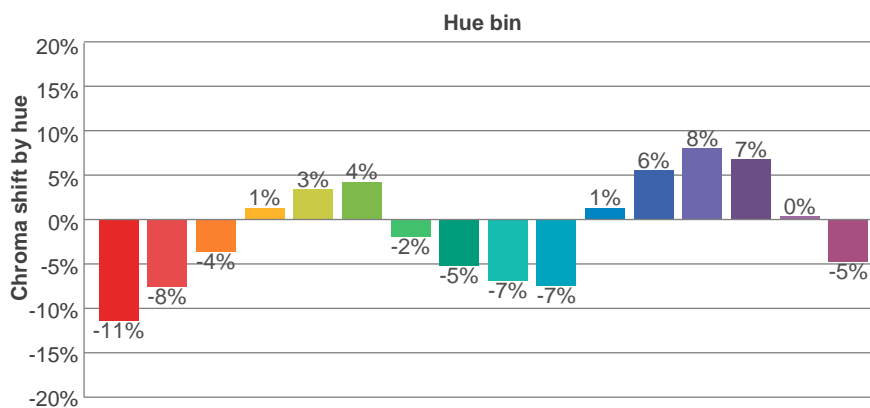
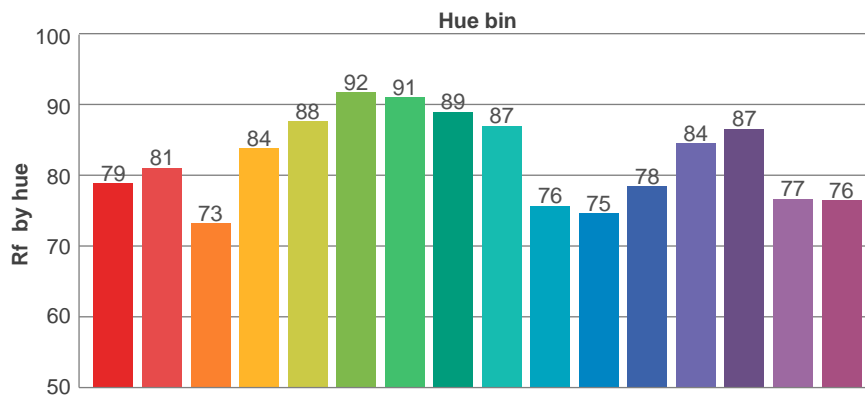
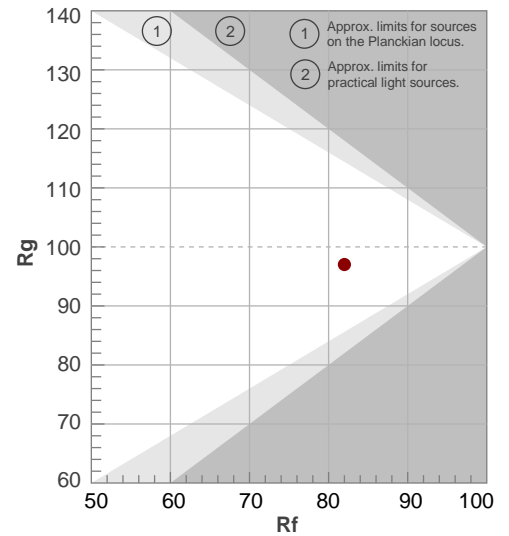
Rf 82,0

Fidelity index Rf

Rg 97,0

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	79	-11%	-1%
2	81	-8%	6%
3	73	-4%	12%
4	84	1%	9%
5	88	3%	5%
6	92	4%	-2%
7	91	-2%	-4%
8	89	-5%	-2%
9	87	-7%	4%
10	76	-7%	11%
11	75	1%	15%
12	78	6%	9%
13	84	8%	-4%
14	87	7%	-6%
15	77	0%	-16%
16	76	-5%	-13%



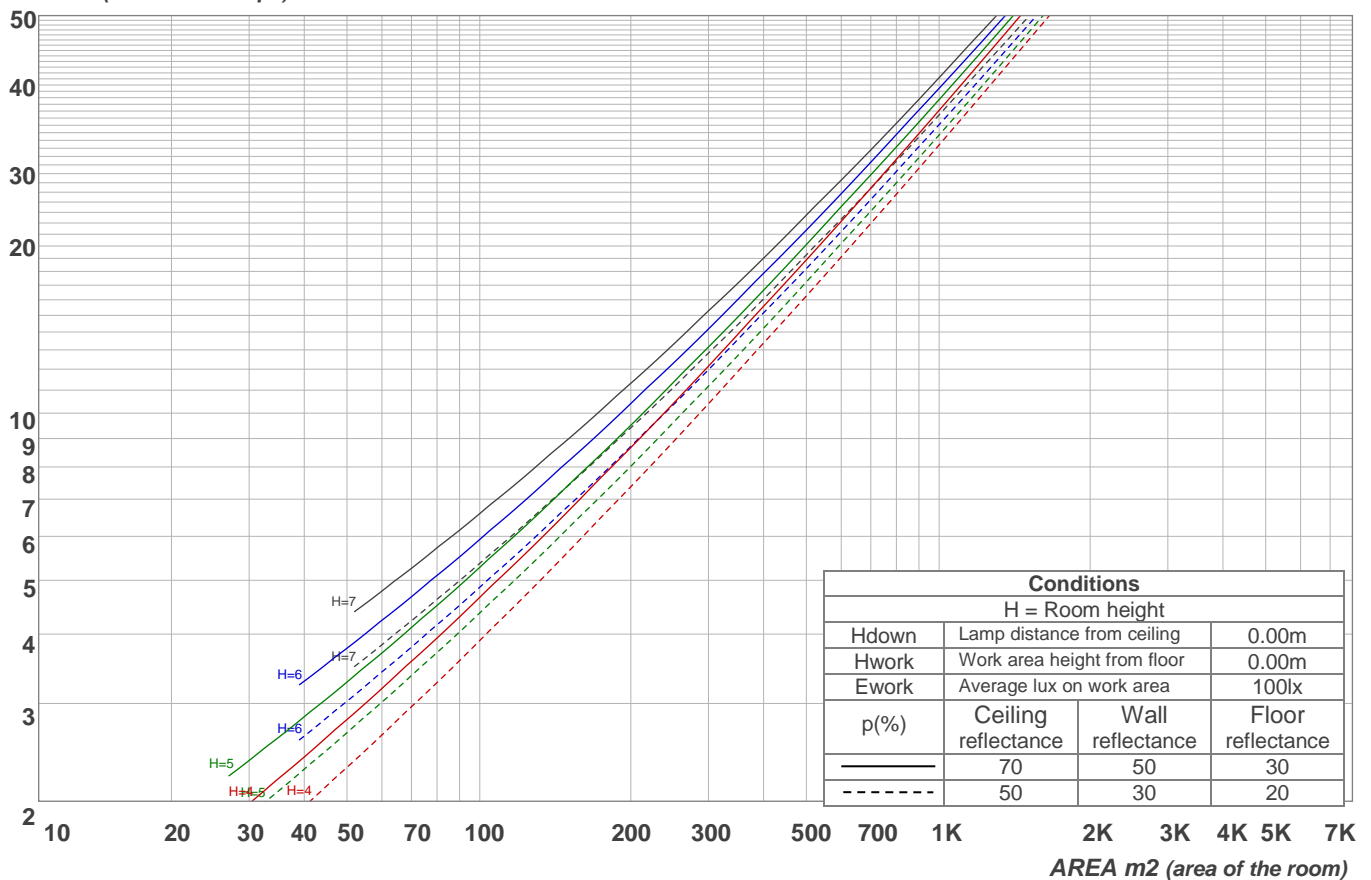
Light planning

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	101	101	101	99
1	110	106	102	98	107	103	100	97	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	84	80	77	81	78	75	73
3	93	83	75	69	90	81	74	69	78	72	67	75	70	66	73	68	65	63
4	85	74	66	60	83	73	65	59	70	63	58	68	62	57	65	61	57	54
5	79	67	58	52	77	65	58	52	63	56	51	61	55	50	59	54	50	48
6	73	60	52	46	71	59	51	46	57	50	45	56	49	45	54	48	44	42
7	68	55	47	41	66	54	46	41	52	45	40	51	45	40	50	44	39	38
8	63	50	42	37	62	50	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	33	42	36	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	29	28

LAMPS (number of lamps)

Luminaire budgetary diagram

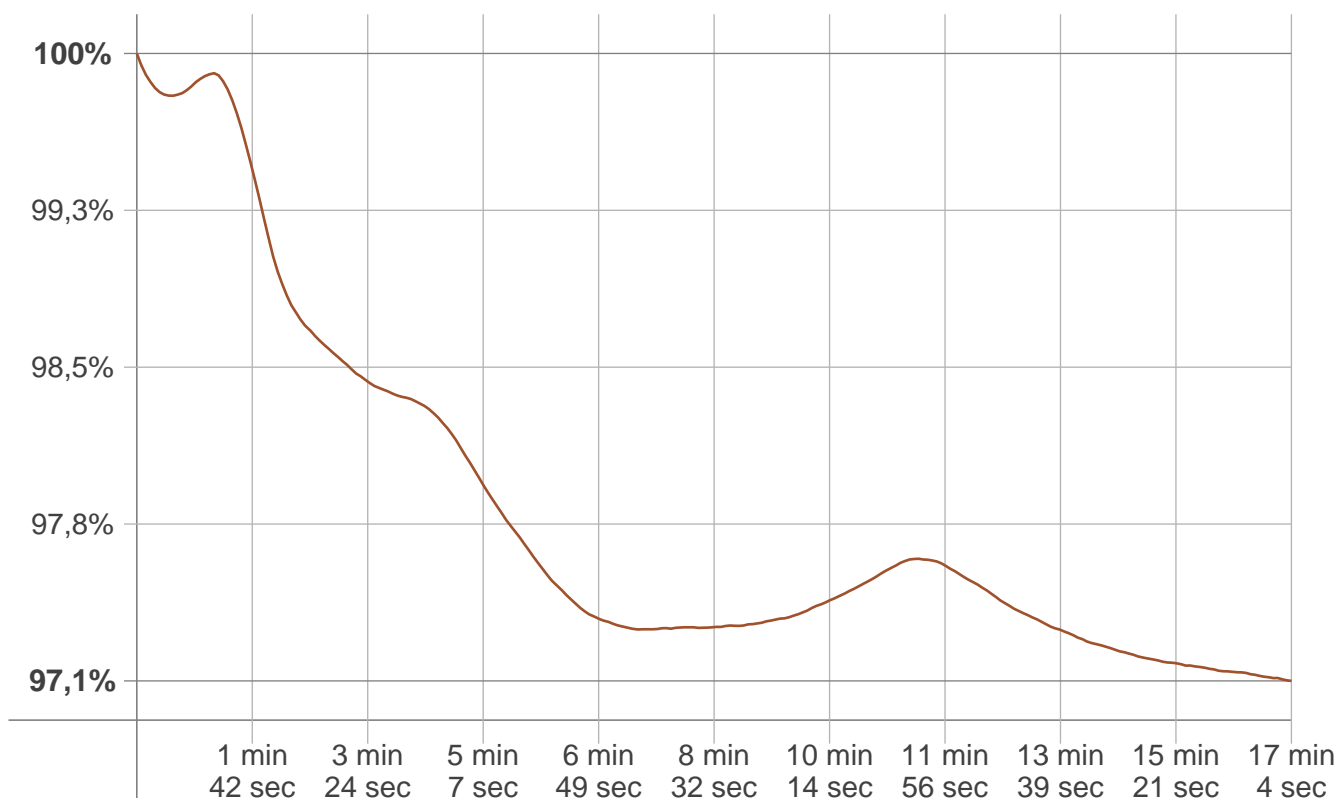


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
142 lm	402 lm	590 lm	676 lm	650 lm	513 lm	325 lm	141 lm	26,8 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
5,19 lm	4,90 lm	5,25 lm	5,41 lm	5,32 lm	4,89 lm	4,00 lm	2,64 lm	0,938 lm

Stabilization

Warmup curve



Warmup result

Warmup time:	17 min 4 sec
Warmup variation	-2,9%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
3908 K	+72 K	3980 K

Output change

Output start	Output change	Output end
3602 lm	-98 lm	3504 lm