

Light efficiency:

103 Lumen/Watt

Light quality:

CRI: 80,4

Color temperature:

4219 K

Output: 4474 lm

Peak: 1759 cd

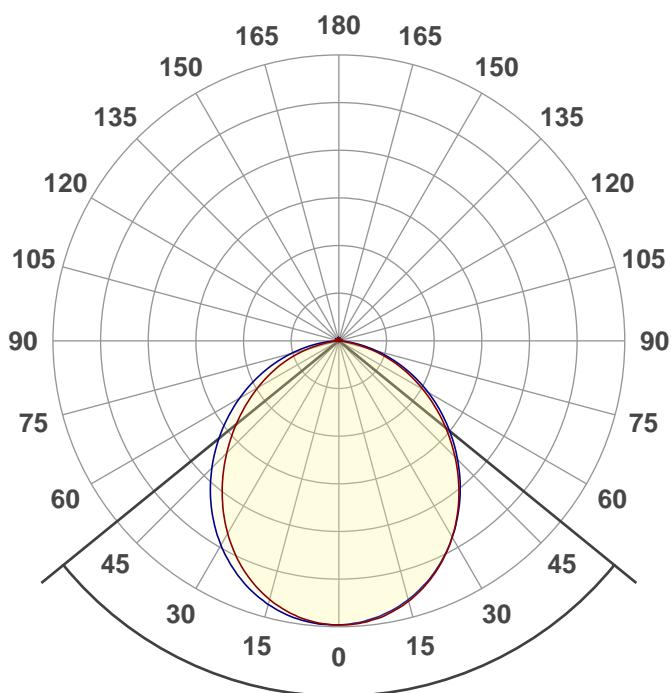
Power: 43,5 W

PF: 1,0



Product name:

E0271-ARTEM-S-PANT-WH-
2x13.8W(LV2)-PH-4K-OPA 02-BK



Beam angle

101,7°



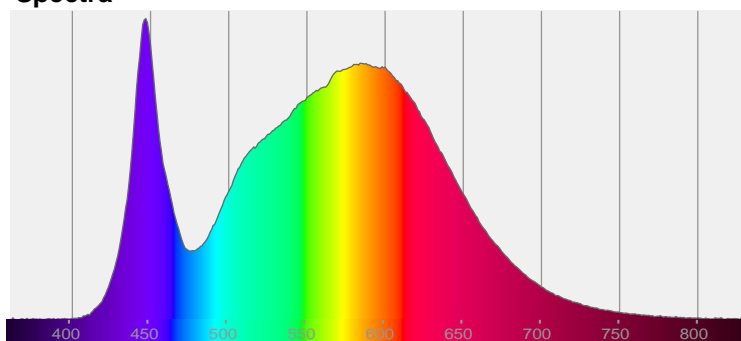
CIE 1931
x: 0,372
y: 0,375

THD Values:

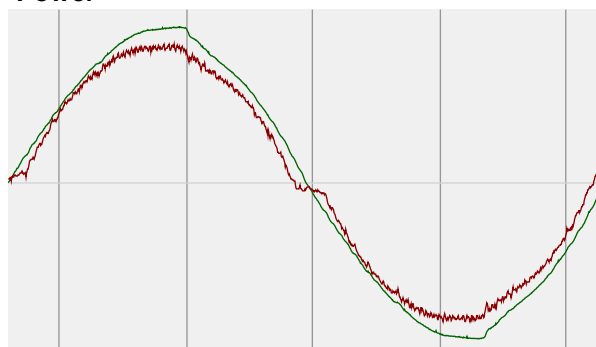
Voltage: 2,22%

Current: 5,63%

Spectra

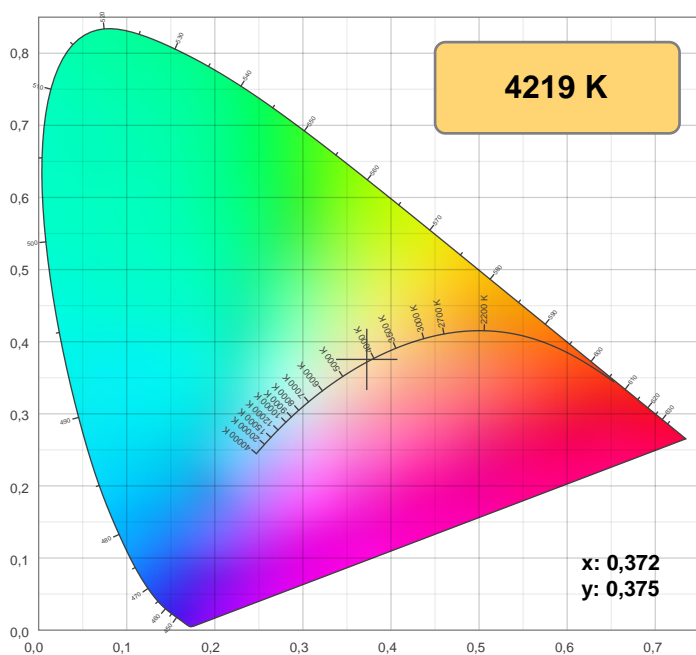


Power



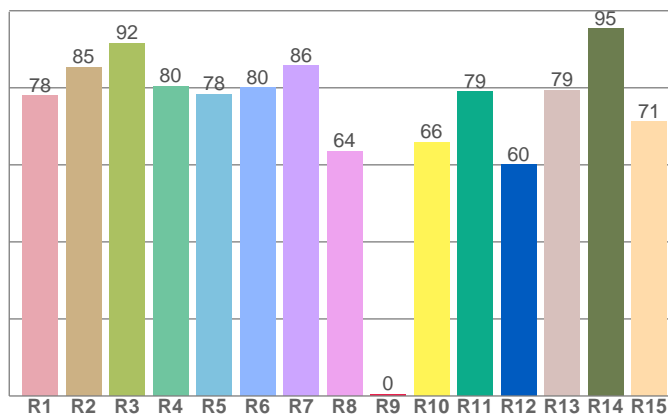
Voltage: 113 V
Current: 0,388 A
Frequency: 60,1 Hz

Color details



CIE 1931

CRI: 80,4 (R1-R8)

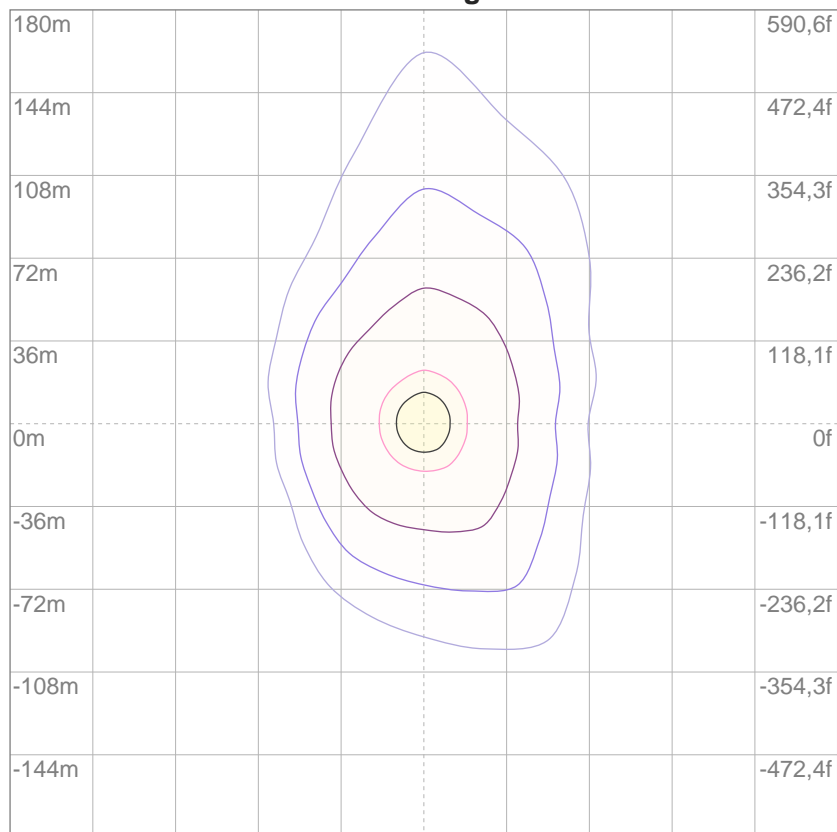


CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	9	R10	R11	R12	R13	R14	R15
77,9	85,3	91,6	80,5	78,3	80,1	85,7	63,5	0,5	65,8	78,9	60,1	79,3	95,3	71,1

ISO Diagrams

ISO lux diagram



Mounting height: 10 meters (33 f)

- 3% 0,527 lx
- 5% 0,878 lx
- 10% 1,76 lx
- 30% 5,27 lx
- 50% 8,78 lx

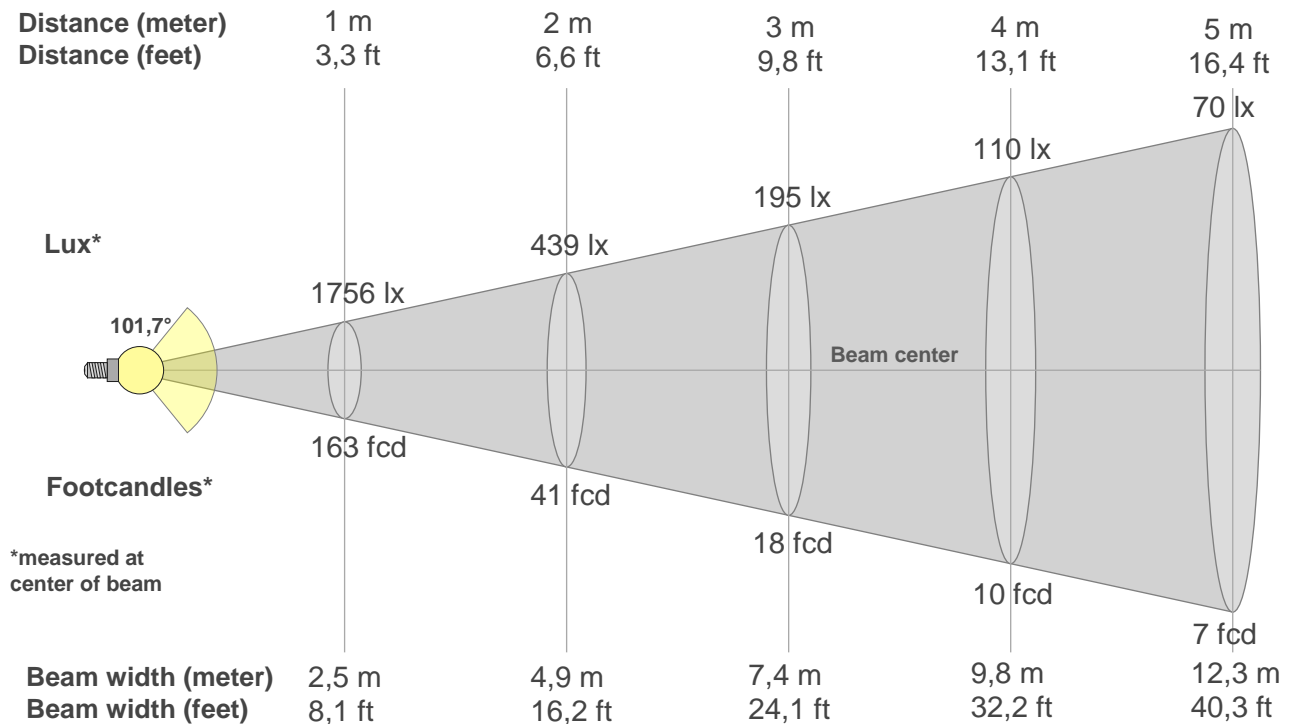
Conditions:

Number of c-planes: 12

Lux at center: 17,6 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
1756lx	439lx	195lx	110lx	70lx	49lx	36lx	27lx	22lx	18lx	15lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx
163,2fc	40,8fcd	18,1fcd	10,2fcd	6,5fcd	4,5fcd	3,3fcd	2,5fcd	2fcd	1,6fcd	1,3fcd	1,1fcd	1fcd	0,8fcd	0,7fcd	0,6fcd	0,6fcd	0,5fcd	0,5fcd	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°
1756	1750	1720	1669	1597	1509	1403	1284	1154	1017	877	738	601	467	335	203	80	14	7	6
100%	100%	98%	95%	91%	86%	80%	73%	66%	58%	50%	42%	34%	27%	19%	12%	5%	1%	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°
1756	1744	1710	1659	1590	1504	1403	1290	1169	1039	907	773	639	505	372	243	126	37	8	7
100%	99%	97%	94%	91%	86%	80%	73%	67%	59%	52%	44%	36%	29%	21%	14%	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°
1756	1747	1713	1657	1581	1488	1376	1252	1119	981	844	710	579	454	332	206	90	19	7	6
100%	99%	98%	94%	90%	85%	78%	71%	64%	56%	48%	40%	33%	26%	19%	12%	5%	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°
1756	1754	1731	1689	1630	1552	1460	1354	1237	1112	980	845	709	574	440	309	184	77	14	9
100%	100%	99%	96%	93%	88%	83%	77%	70%	63%	56%	48%	40%	33%	25%	18%	11%	4%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
101,7°	155,4°	167,9°	81,0%	56,9%

TM30 details

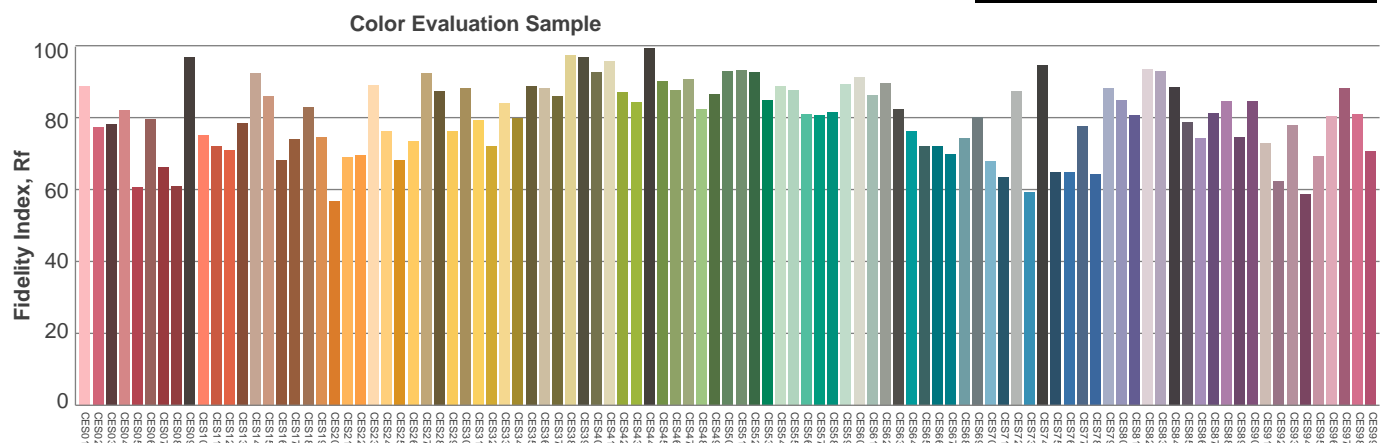
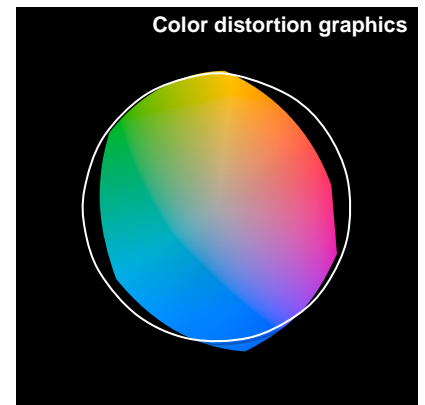
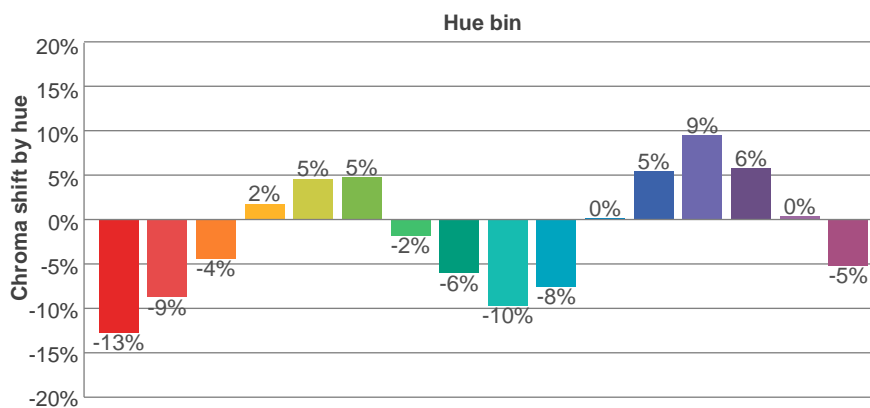
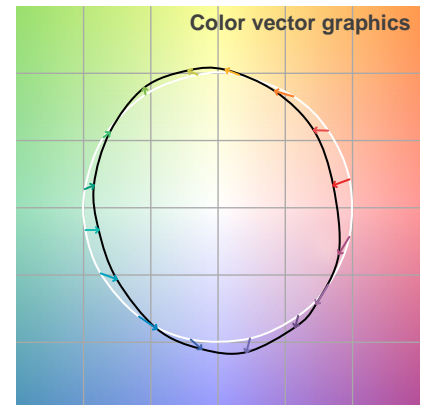
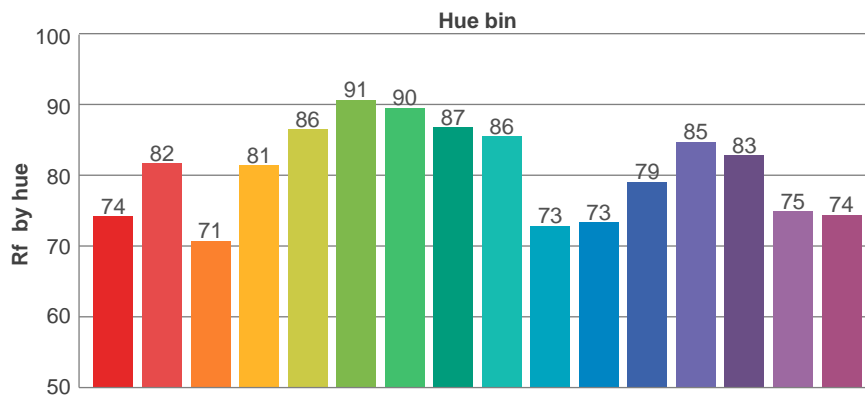
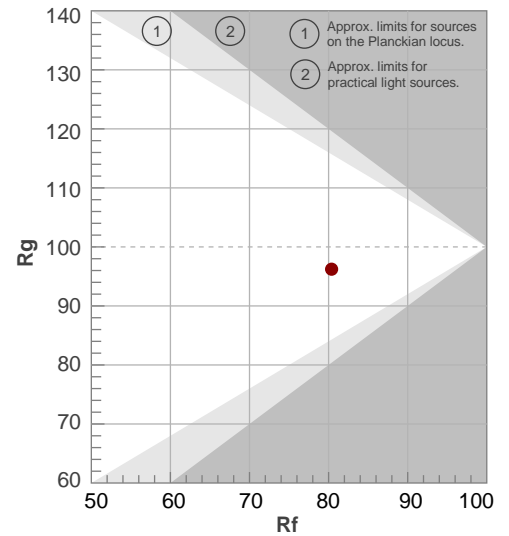
Rf 80,4

Fidelity index Rf

Rg 96,2

Gammut index Rg

Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	74	-13%	-2%
2	82	-9%	6%
3	71	-4%	13%
4	81	2%	10%
5	86	5%	6%
6	91	5%	-2%
7	90	-2%	-6%
8	87	-6%	-4%
9	86	-10%	2%
10	73	-8%	10%
11	73	0%	16%
12	79	5%	9%
13	85	9%	-5%
14	83	6%	-6%
15	75	0%	-17%
16	74	-5%	-14%



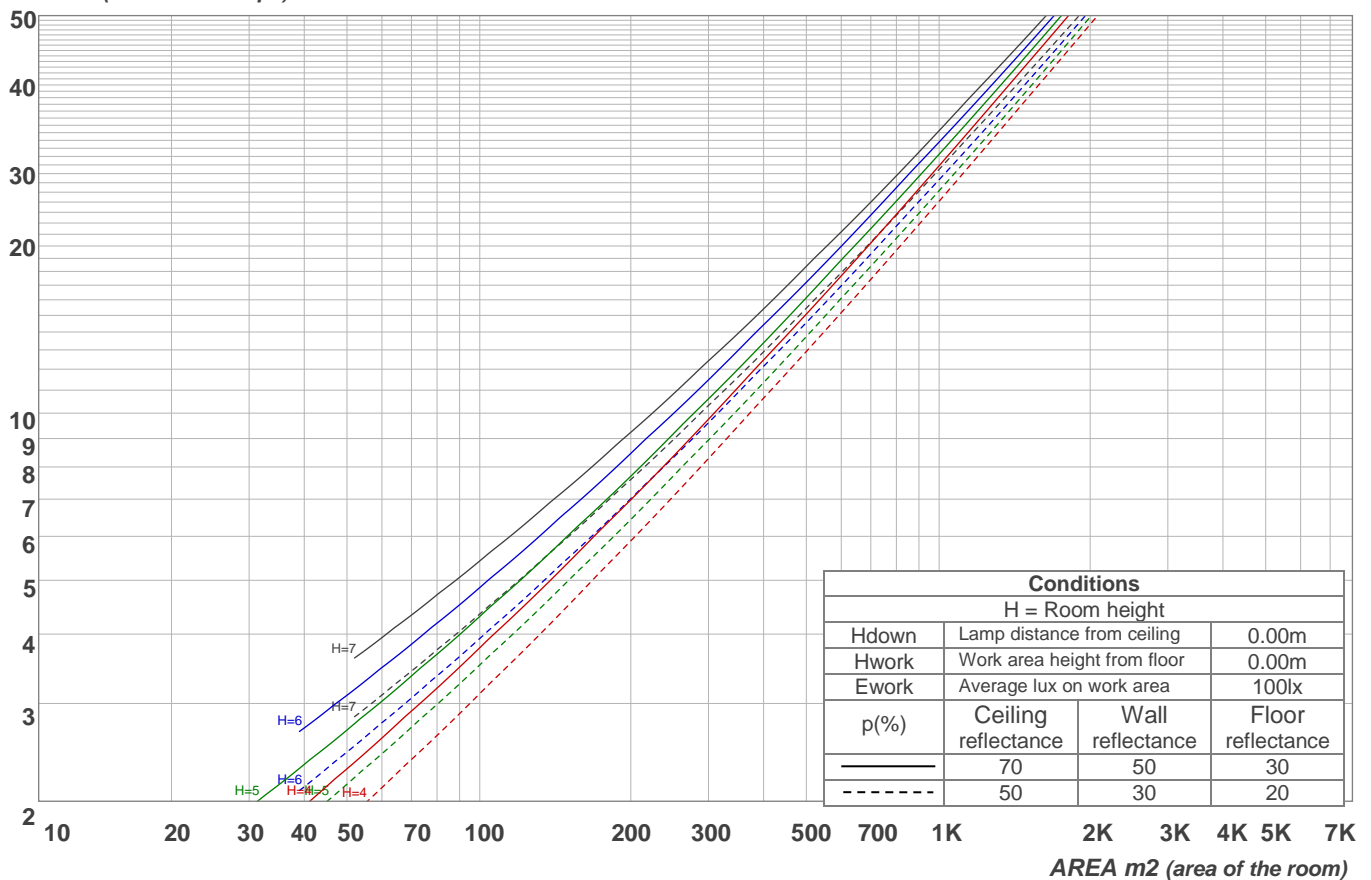
Light planning

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	110	110	110	106	106	106	101	101	101	99
1	109	105	101	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84
2	100	92	85	80	97	90	84	79	86	81	77	83	78	75	79	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	63	58	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	36	31	41	35	30	40	35	30	28
10	54	41	33	28	53	41	33	28	39	33	28	38	32	28	38	32	28	26

LAMPS (number of lamps)

Luminaire budgetary diagram

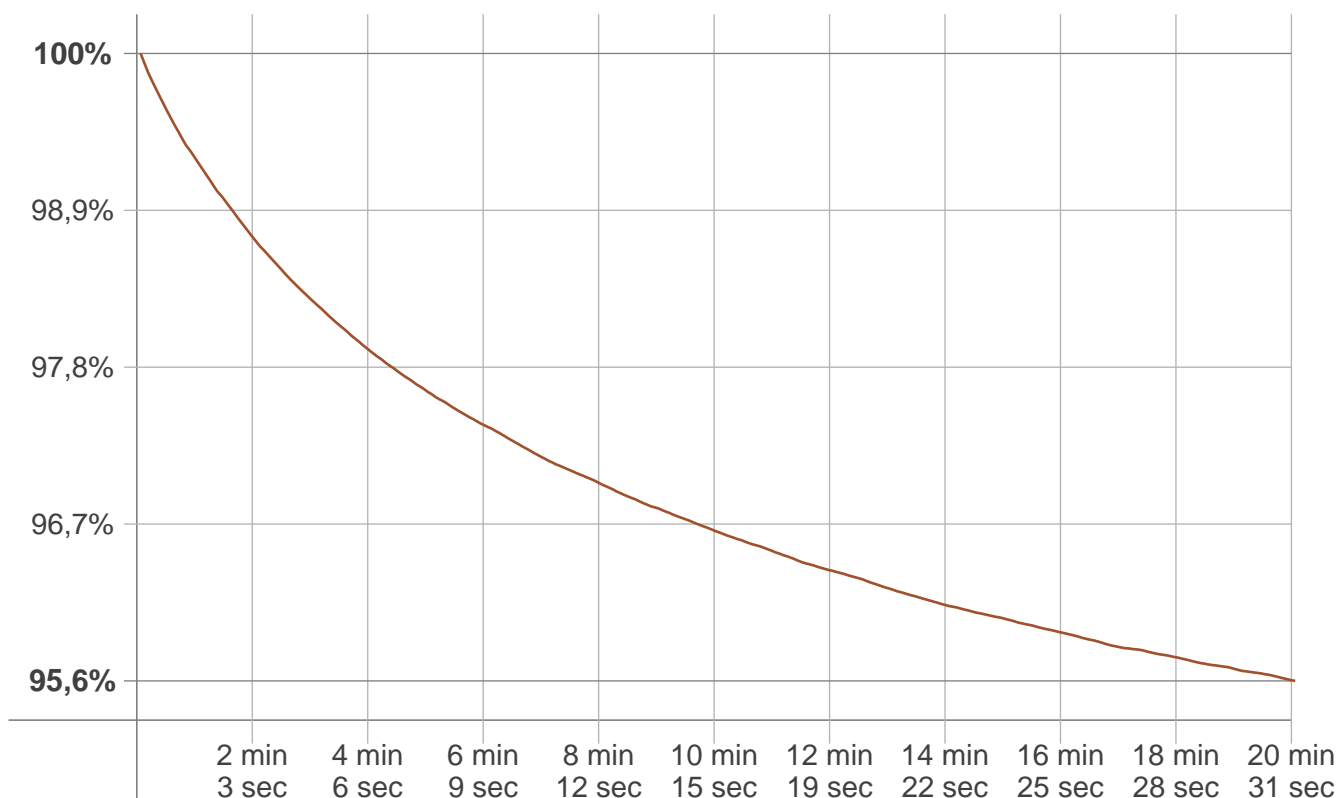


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
166 lm	470 lm	696 lm	809 lm	799 lm	685 lm	494 lm	256 lm	48,4 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
7,84 lm	6,94 lm	7,09 lm	7,20 lm	6,88 lm	6,12 lm	4,90 lm	3,20 lm	1,13 lm

Stabilization

Warmup curve



Warmup result

Warmup time:	20 min 35 sec
Warmup variation	-4,5%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
4174 K	+45 K	4219 K

Output change

Output start	Output change	Output end
4672 lm	-199 lm	4474 lm