

Light efficiency:

91 Lumen/Watt

Light quality:

CRI: 83,5

Color temperature:

3991 K

Output: 4135 lm

Peak: 1586 cd

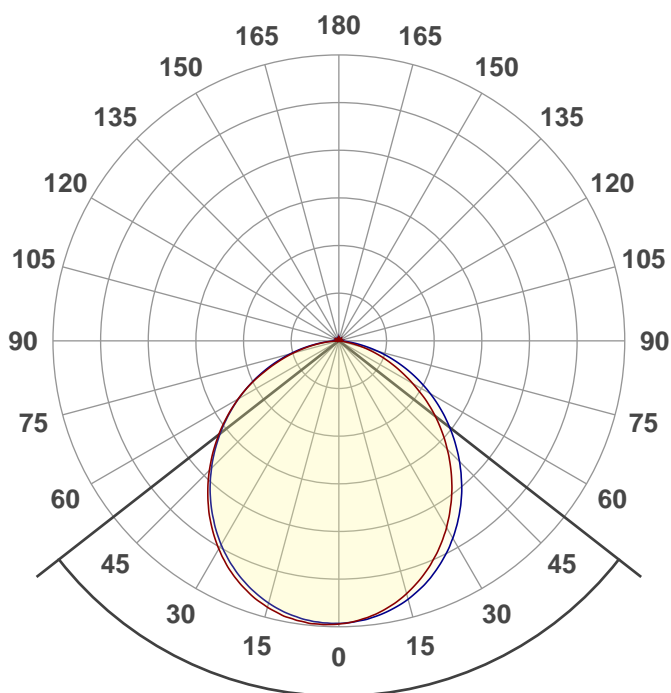
Power: 45,6 W

PF: 1,0



Product name:

E0267-ARTEM-S-2x13.8W-PH-4K-OPA
02



Beam angle

104°



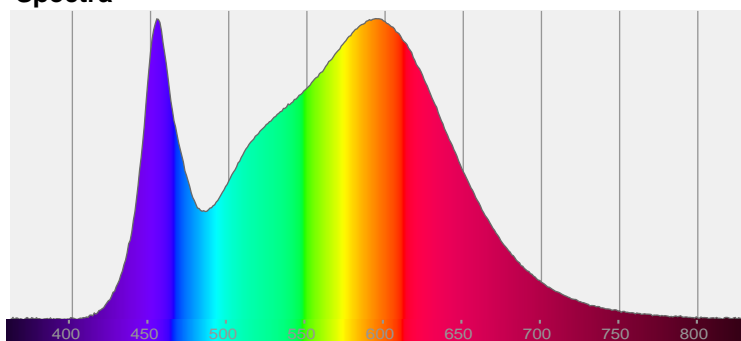
CIE 1931
x: 0,381
y: 0,376

THD Values:

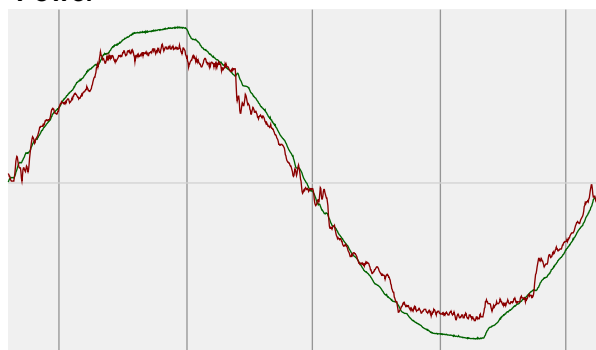
Voltage: 2,16%

Current: 6,33%

Spectra

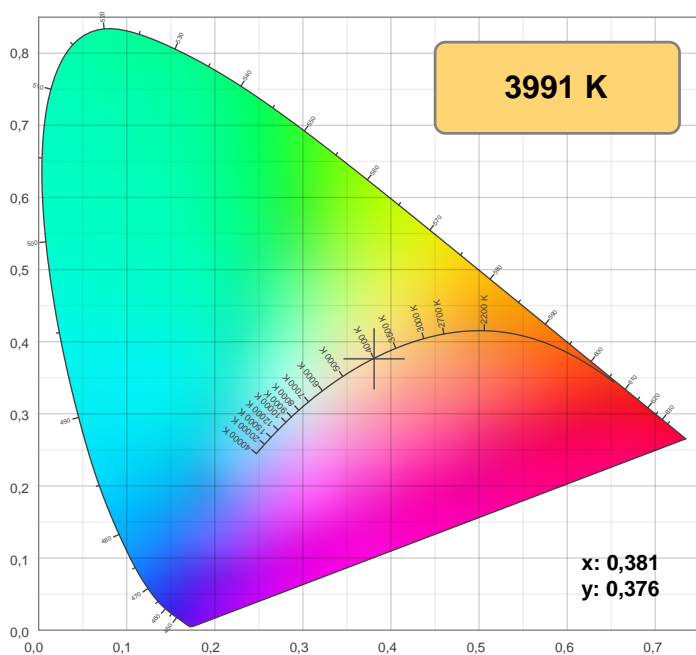


Power



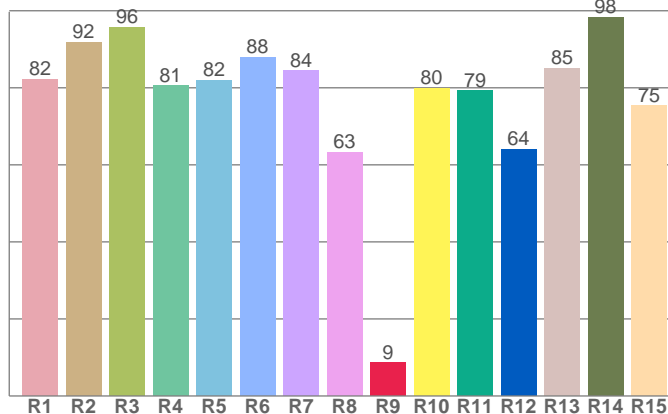
Voltage: 110 V
Current: 0,415 A
Frequency: 59,9 Hz

Color details



CIE 1931

CRI: 83,5 (R1-R8)

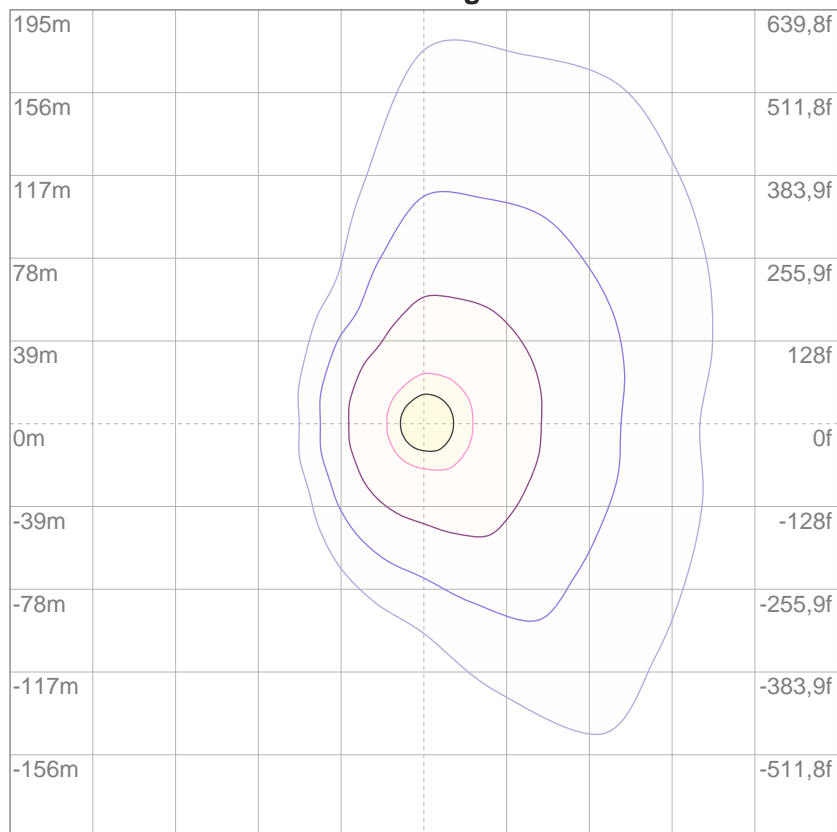


CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	9	R10	R11	R12	R13	R14	R15
82,2	91,9	95,8	80,5	81,9	87,9	84,5	63,3	8,6	79,8	79,2	64,1	85,0	98,3	75,4

ISO Diagrams

ISO lux diagram



Mounting height: 10 meters (33 f)

- 3% 0,473 lx
- 5% 0,789 lx
- 10% 1,58 lx
- 30% 4,73 lx
- 50% 7,89 lx

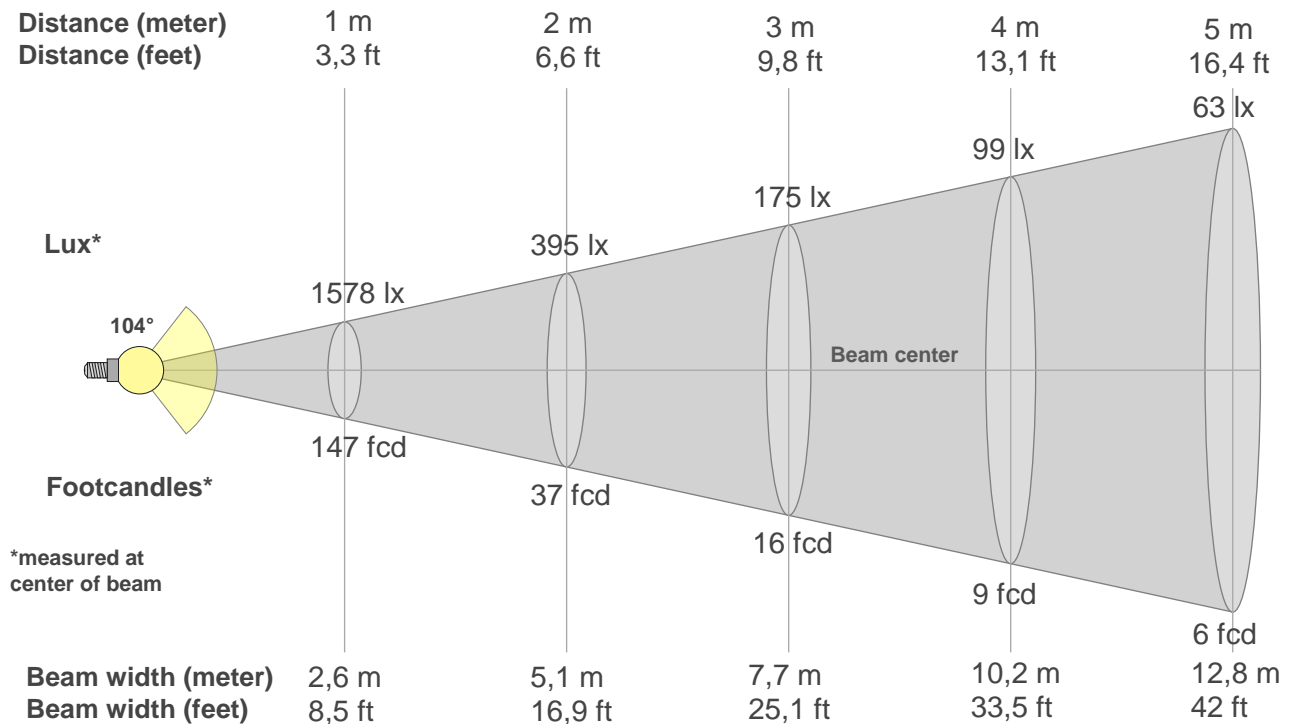
Conditions:

Number of c-planes: 12

Lux at center: 15,8 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
1578lx	395lx	175lx	99lx	63lx	44lx	32lx	25lx	19lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx
146,6fcd	36,7fcd	16,3fcd	9,2fcd	5,9fcd	4,1fcd	3fcd	2,3fcd	1,8fcd	1,5fcd	1,2fcd	1fcd	0,9fcd	0,7fcd	0,7fcd	0,6fcd	0,5fcd	0,5fcd	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°
1578	1557	1518	1461	1387	1301	1202	1094	977	856	732	606	476	357	247	143	53	10	7	6
100%	99%	96%	93%	88%	82%	76%	69%	62%	54%	46%	38%	30%	23%	16%	9%	3%	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°
1578	1565	1536	1493	1434	1359	1272	1174	1067	952	833	713	589	466	344	225	118	38	9	7
100%	99%	97%	95%	91%	86%	81%	74%	68%	60%	53%	45%	37%	30%	22%	14%	7%	2%	1%	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°
1578	1585	1571	1539	1489	1423	1340	1245	1138	1022	901	776	650	518	385	264	153	58	10	6
100%	100%	100%	98%	94%	90%	85%	79%	72%	65%	57%	49%	41%	33%	24%	17%	10%	4%	1%	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°
1578	1573	1552	1515	1462	1394	1314	1219	1117	1005	888	768	646	524	402	281	168	73	15	7
100%	100%	98%	96%	93%	88%	83%	77%	71%	64%	56%	49%	41%	33%	25%	18%	11%	5%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
104°	156,3°	169,6°	80,4%	56,1%

TM30 details

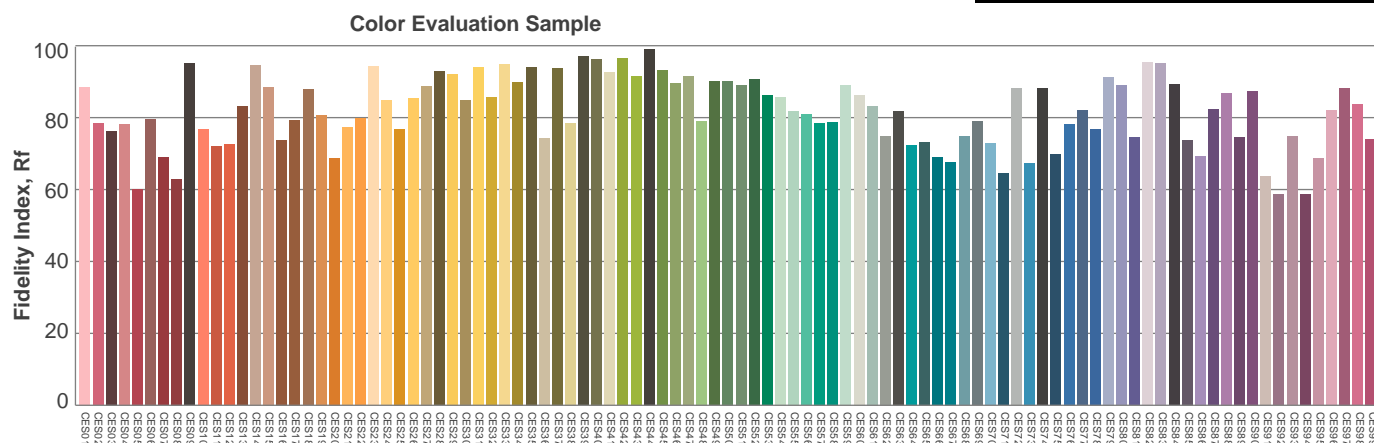
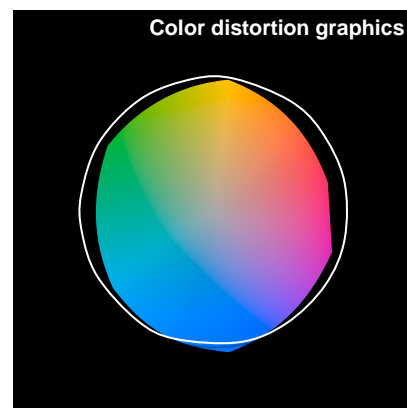
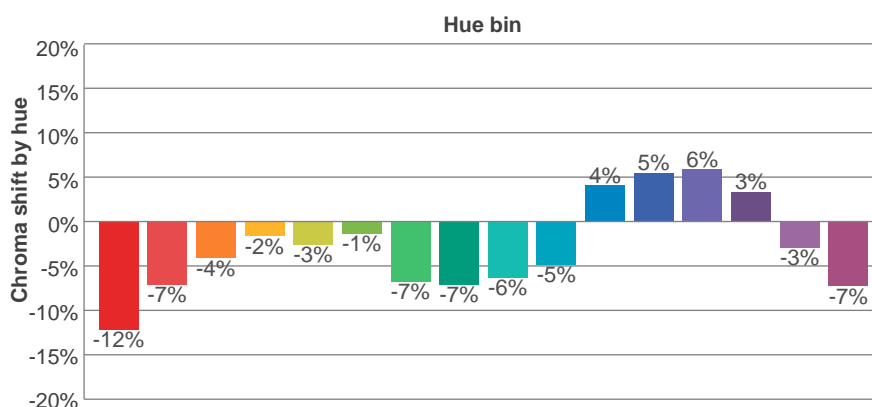
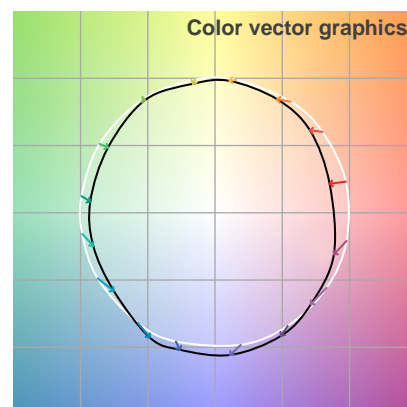
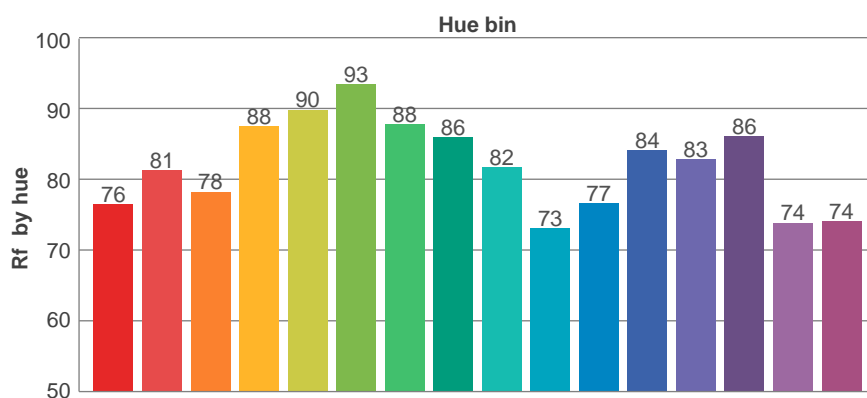
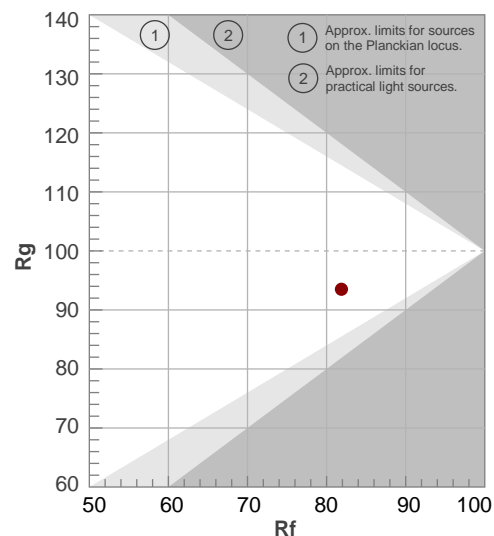
Rf 81,9

Fidelity index Rf

Rg 93,5

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	76	-12%	1%
2	81	-7%	6%
3	78	-4%	9%
4	88	-2%	5%
5	90	-3%	2%
6	93	-1%	-2%
7	88	-7%	-1%
8	86	-7%	3%
9	82	-6%	10%
10	73	-5%	14%
11	77	4%	13%
12	84	5%	4%
13	83	6%	-9%
14	86	3%	-8%
15	74	-3%	-17%
16	74	-7%	-12%



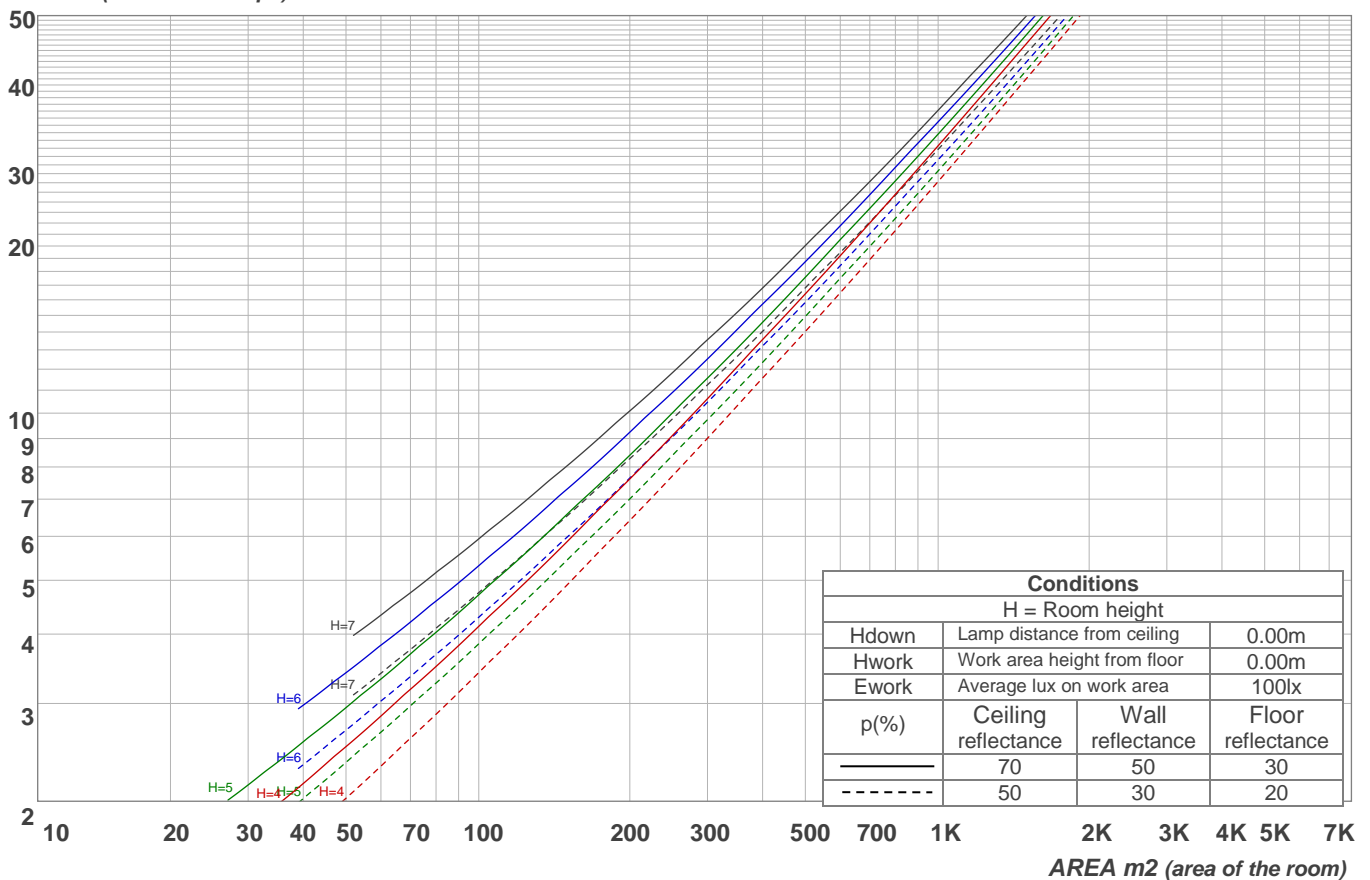
Light planning

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	104	100	97	106	102	98	95	98	95	92	93	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	91	81	73	66	88	79	72	66	76	69	64	73	68	63	70	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	51	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	48	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

LAMPS (number of lamps)

Luminaire budgetary diagram

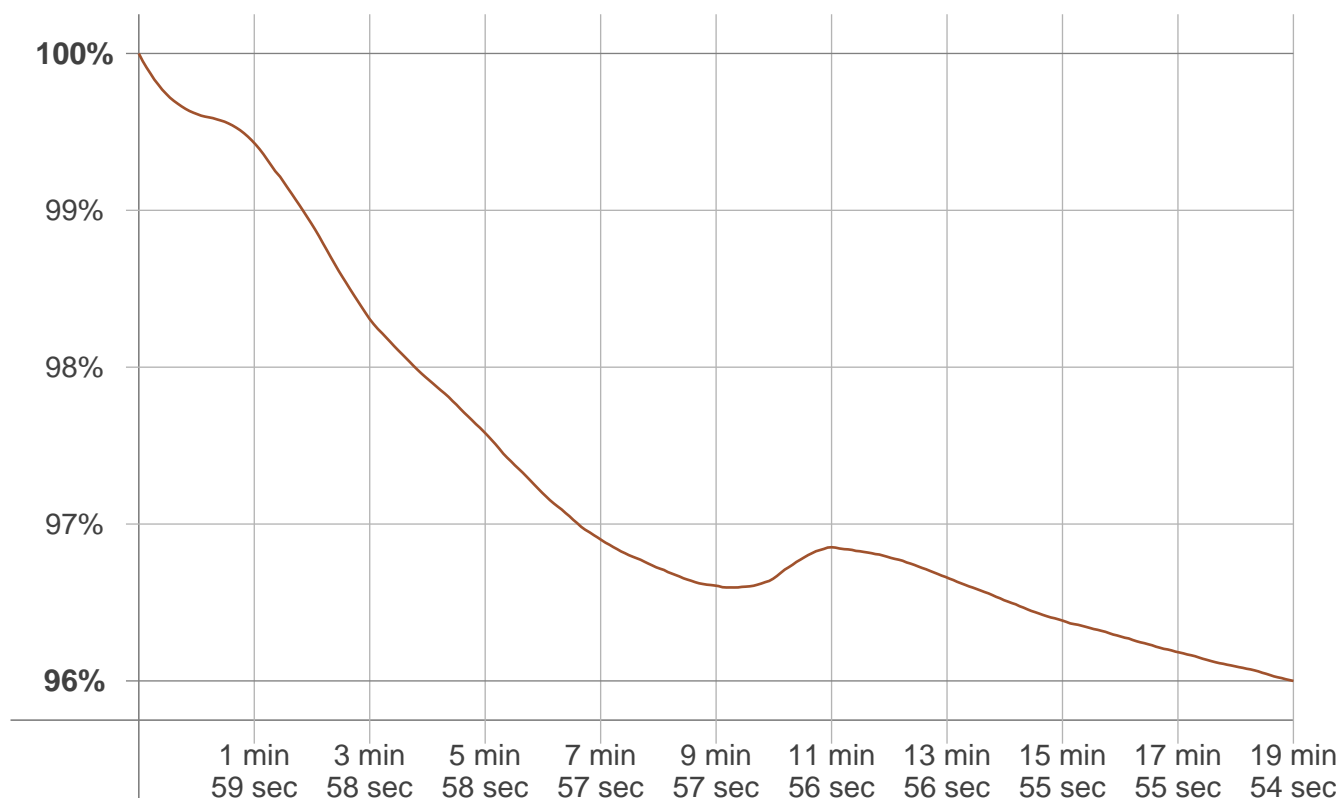


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
149 lm	423 lm	630 lm	739 lm	740 lm	641 lm	464 lm	244 lm	56,1 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
7,61 lm	6,57 lm	6,61 lm	6,65 lm	6,34 lm	5,68 lm	4,60 lm	3,02 lm	1,05 lm

Stabilization

Warmup curve



Warmup result

Warmup time:	19 min 54 sec
Warmup variation	-4,0%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
3916 K	+75 K	3991 K

Output change

Output start	Output change	Output end
4299 lm	-164 lm	4135 lm