

Light efficiency:

95 Lumen/Watt

Light quality:

CRI: 83,8

Color temperature:

4044 K

Output: 3037 lm

Peak: 890 cd

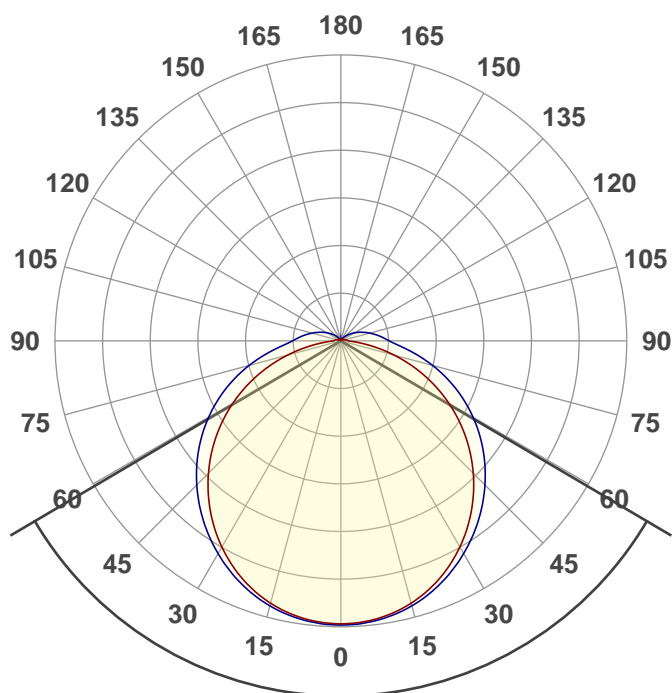
Power: 32,1 W

PF: 0,99



Product name:

E0284-V17-L28-4K



Beam angle

119°



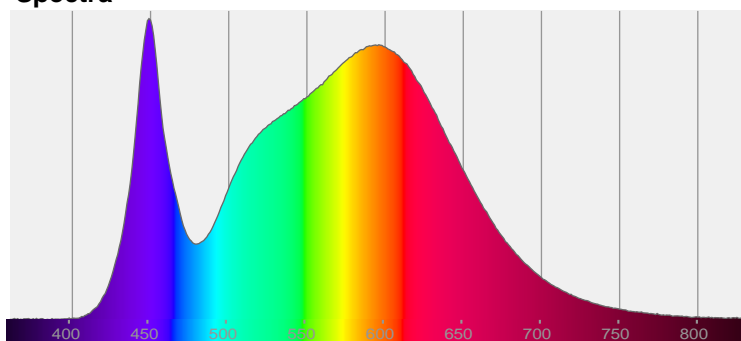
CIE 1931
x: 0,378
y: 0,372

THD Values:

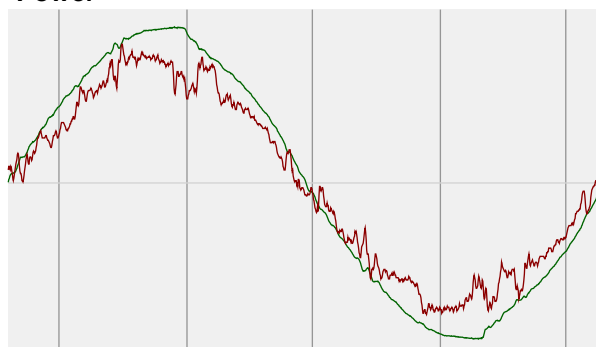
Voltage: 2,54%

Current: 9,32%

Spectra

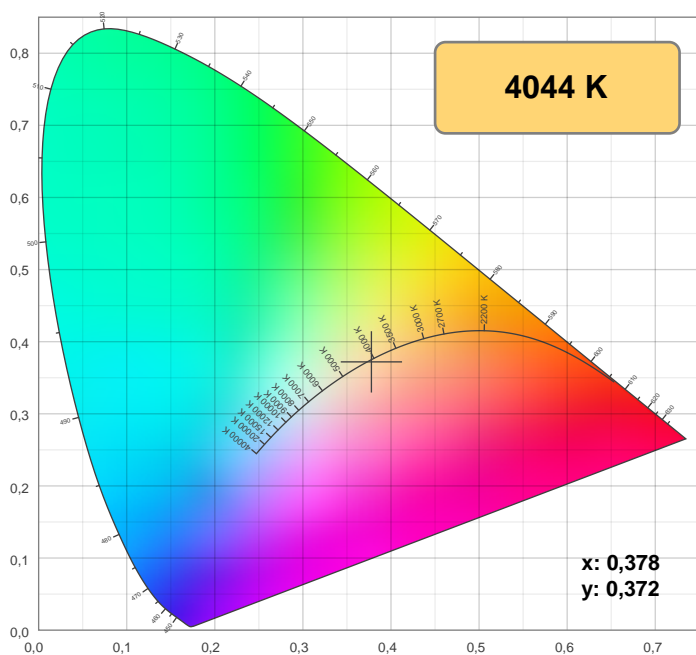


Power



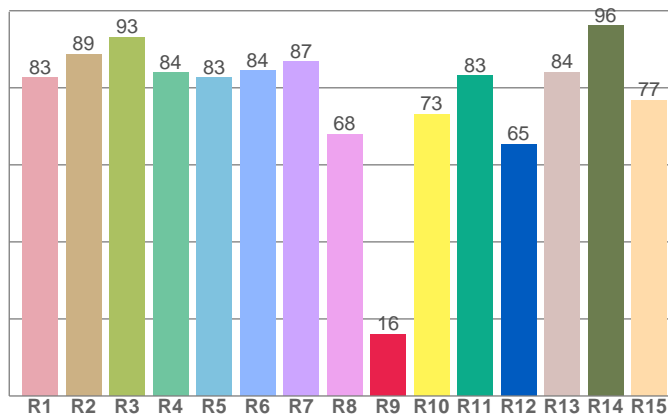
Voltage: 112 V
Current: 0,288 A
Frequency: 60 Hz

Color details



CIE 1931

CRI: 83,8 (R1-R8)

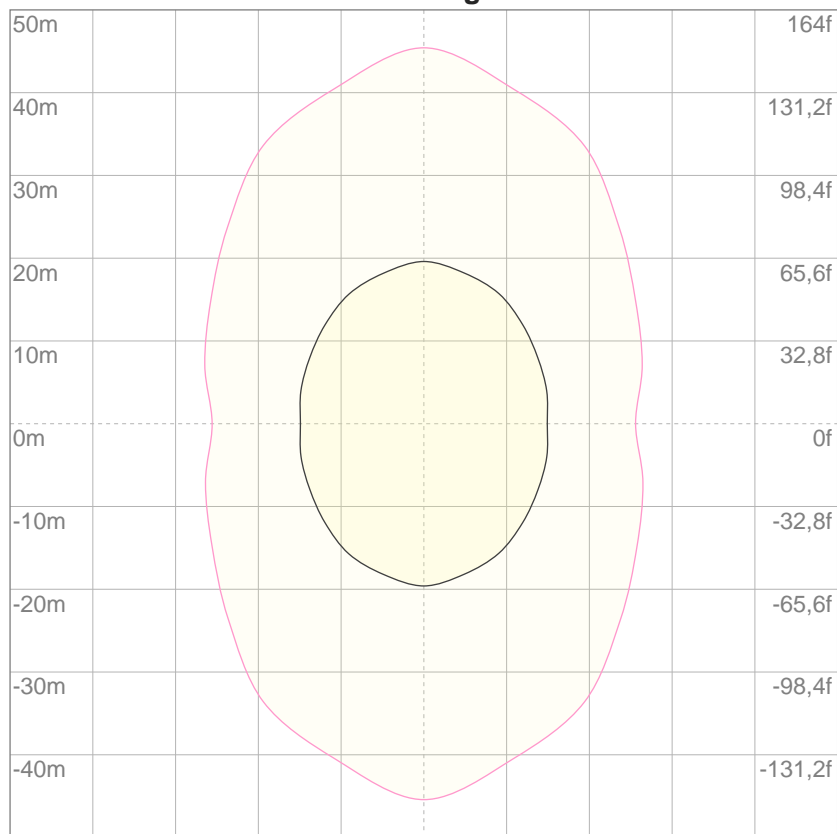


CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	9	R10	R11	R12	R13	R14	R15
82,6	88,8	93,1	83,9	82,7	84,4	86,8	68,0	16,1	73,1	83,2	65,3	84,0	96,1	76,8

ISO Diagrams

ISO lux diagram



3%	0,266 lx
5%	0,444 lx
10%	0,887 lx
30%	2,66 lx
50%	4,44 lx

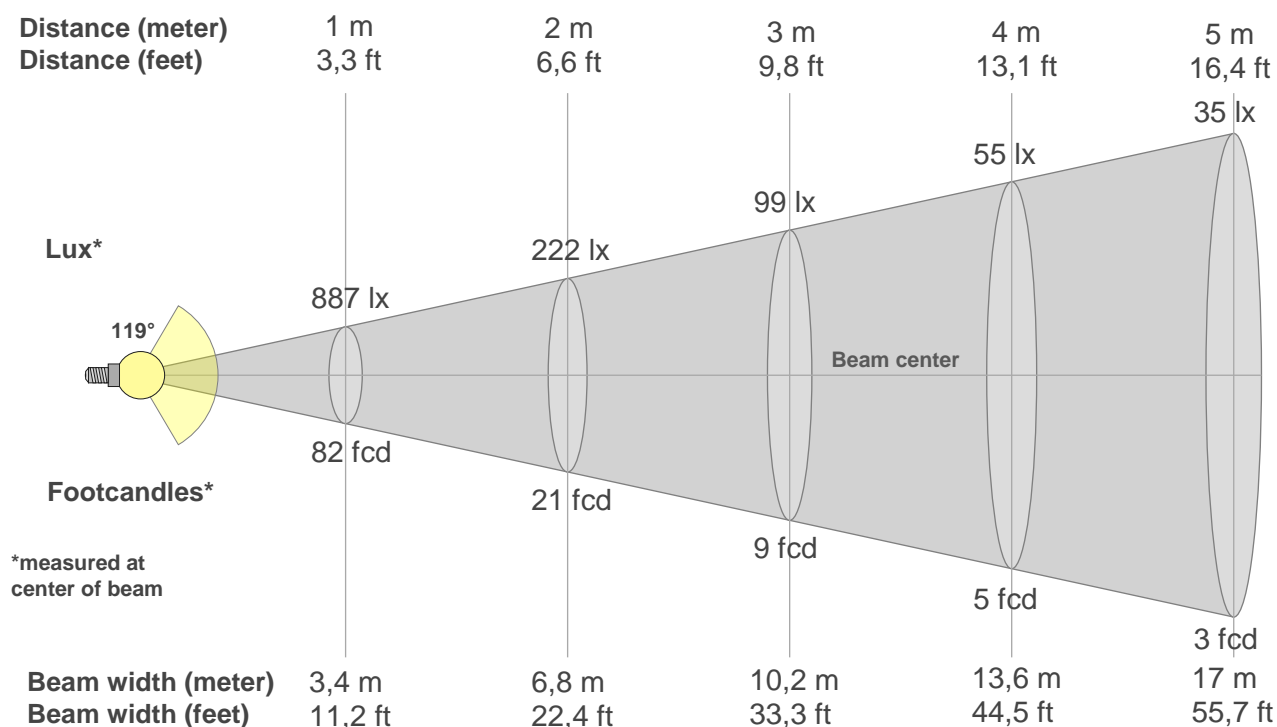
Conditions:

Number of c-planes: 12

Lux at center: 8,87 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
887lx	222lx	99lx	55lx	35lx	25lx	18lx	14lx	11lx	9lx	7lx	6lx	5lx	5lx	4lx	3lx	3lx	3lx	2lx	2lx
82,4fcd	20,6fcd	9,2fcd	5,2fcd	3,3fcd	2,3fcd	1,7fcd	1,3fcd	1fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd

Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
887	874	835	772	687	587	473	348	217	92	24	18	10	8	7	6	5	5	5	5
100%	98%	94%	87%	77%	66%	53%	39%	24%	10%	3%	2%	1%	1%	1%	1%	1%	1%	1%	1%

Intensities in 90° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
887	879	846	791	721	638	545	443	334	227	151	115	84	58	37	21	10	6	6	6
100%	99%	95%	89%	81%	72%	61%	50%	38%	26%	17%	13%	9%	7%	4%	2%	1%	1%	1%	1%

Intensities in 180° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
887	874	835	772	687	587	473	348	217	92	24	18	10	8	7	6	5	5	5	5
100%	98%	94%	87%	77%	66%	53%	39%	24%	10%	3%	2%	1%	1%	1%	1%	1%	1%	1%	1%

Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
887	879	846	791	721	638	545	443	334	227	151	115	84	58	37	21	10	6	6	6
100%	99%	95%	89%	81%	72%	61%	50%	38%	26%	17%	13%	9%	7%	4%	2%	1%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
119°	187,5°	236,5°	67,6%	45,2%

TM30 details

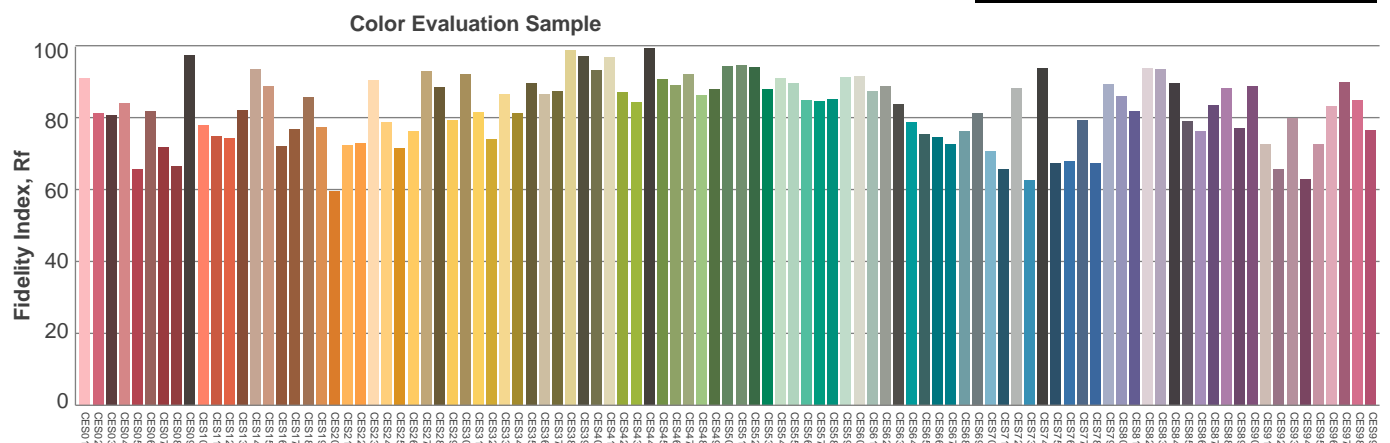
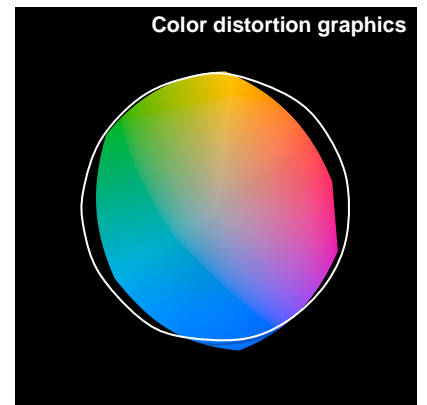
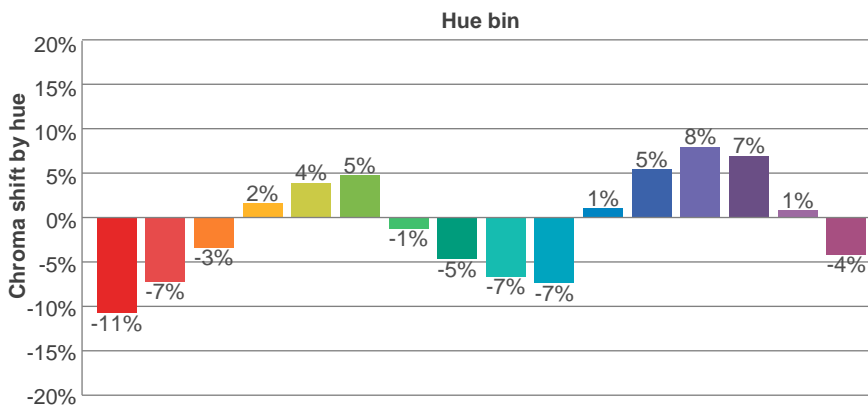
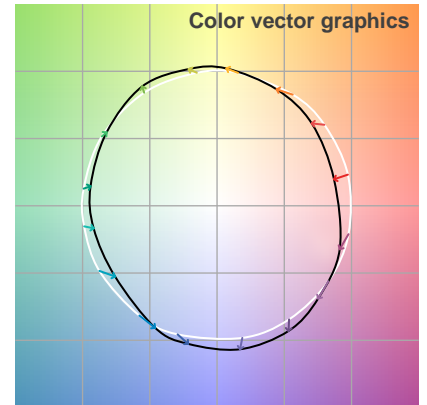
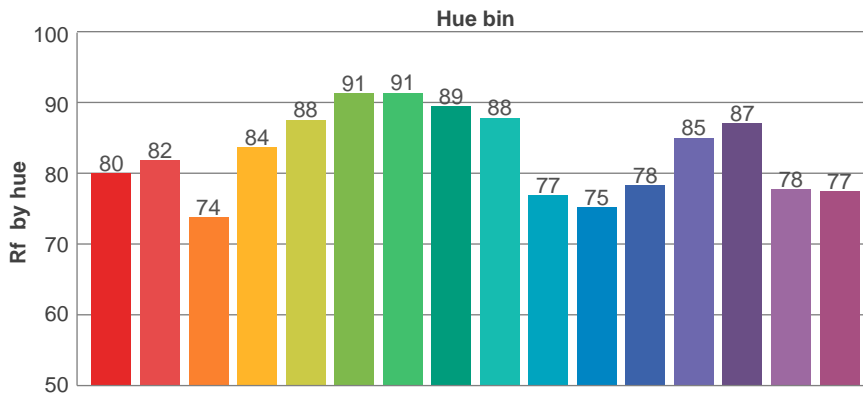
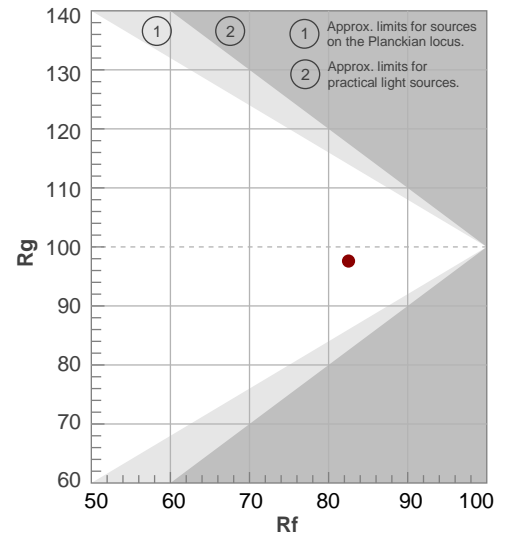
Rf 82,5

Fidelity index Rf

Rg 97,6

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	80	-11%	-1%
2	82	-7%	6%
3	74	-3%	12%
4	84	2%	9%
5	88	4%	5%
6	91	5%	-1%
7	91	-1%	-5%
8	89	-5%	-3%
9	88	-7%	3%
10	77	-7%	10%
11	75	1%	15%
12	78	5%	9%
13	85	8%	-3%
14	87	7%	-5%
15	78	1%	-15%
16	77	-4%	-12%



UGR

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	19,6	20,9	20,0	21,2	21,6	20,3	21,6	20,7	22,0	22,4
	3H	21,2	22,4	21,6	22,7	23,2	22,4	23,6	22,9	24,0	24,4
	4H	21,8	23,0	22,3	23,4	23,8	23,5	24,6	24,0	25,0	25,5
	6H	22,3	23,4	22,8	23,8	24,3	24,6	25,6	25,0	26,0	26,5
	8H	22,5	23,5	23,0	23,9	24,4	25,1	26,1	25,6	26,6	27,0
	12H	22,6	23,6	23,1	24,0	24,5	25,7	26,7	26,2	27,1	27,6
4H	2H	20,4	21,5	20,9	21,9	22,4	21,0	22,1	21,5	22,5	23,0
	3H	22,2	23,2	22,7	23,7	24,2	23,3	24,3	23,8	24,7	25,2
	4H	23,1	23,9	23,6	24,4	24,9	24,6	25,4	25,1	25,9	26,4
	6H	23,7	24,5	24,2	25,0	25,5	25,8	26,6	26,3	27,1	27,6
	8H	24,0	24,7	24,5	25,2	25,7	26,5	27,2	27,0	27,7	28,3
	12H	24,1	24,8	24,7	25,3	25,9	27,2	27,8	27,8	28,4	29,0
8H	4H	23,6	24,3	24,2	24,9	25,4	24,9	25,6	25,5	26,1	26,7
	6H	24,5	25,1	25,1	25,7	26,3	26,4	27,0	27,0	27,5	28,1
	8H	24,9	25,4	25,5	26,0	26,6	27,2	27,7	27,8	28,3	28,9
	12H	25,2	25,7	25,8	26,3	26,9	28,2	28,6	28,8	29,2	29,9
12H	4H	23,8	24,4	24,3	24,9	25,5	25,0	25,6	25,5	26,1	26,7
	6H	24,8	25,3	25,4	25,9	26,5	26,5	27,0	27,1	27,6	28,2
	8H	25,2	25,7	25,8	26,3	26,9	27,4	27,9	28,0	28,5	29,1
Variation of the observer position for the luminaire distance S											
S = 1,0H		+0,1 / -0,1					+0,1 / -0,1				
S = 1,5H		+0,2 / -0,3					+0,2 / -0,2				
S = 2,0H		+0,3 / -0,6					+0,3 / -0,4				
Standard table		BK07					BK10				
Correction summand		7,1					10,4				
Corrected glare indices referring to 3037 lm total luminous flux											

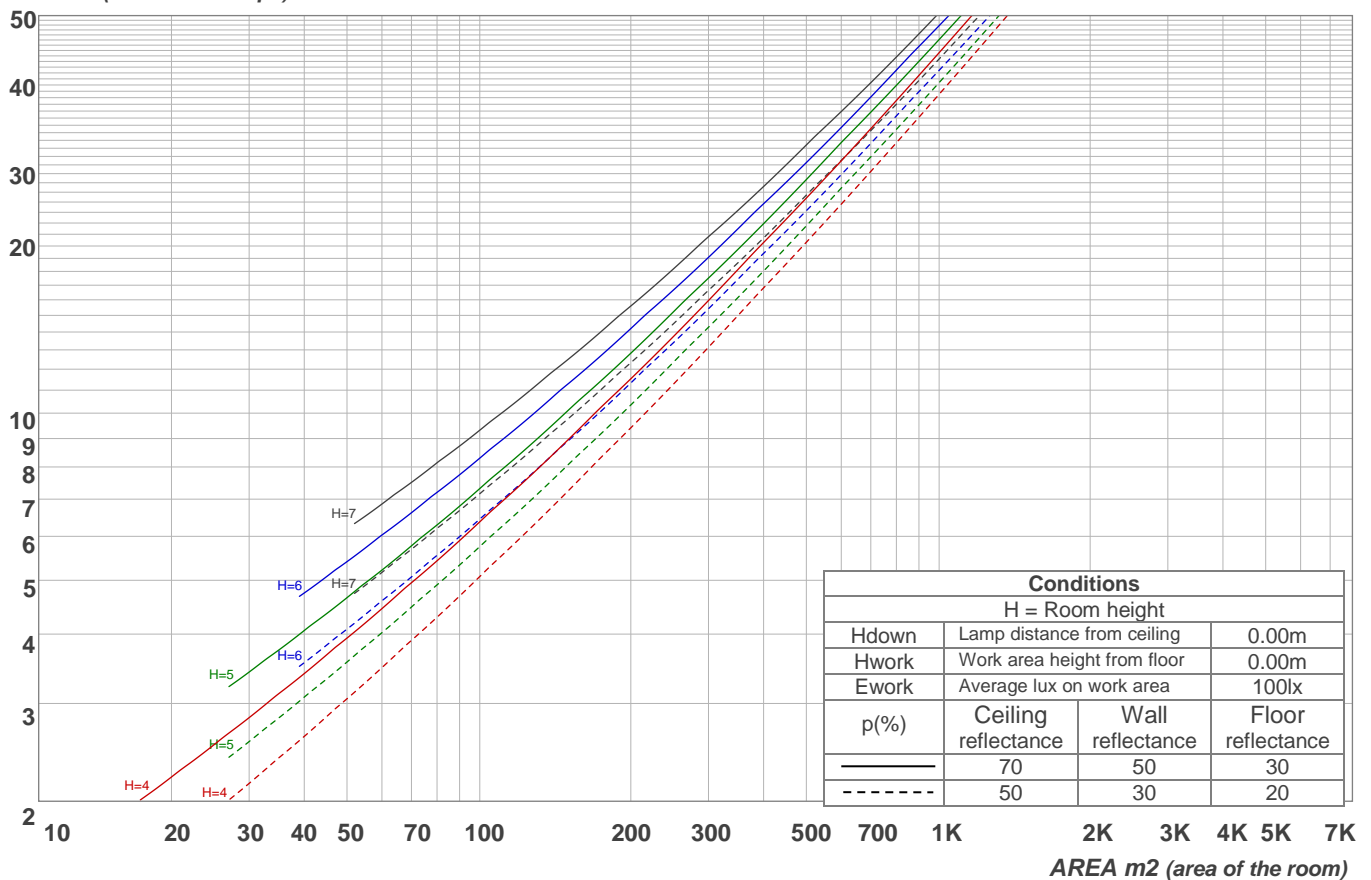
Light planning

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	106	100	95	91	102	97	93	89	92	88	85	86	83	81	82	79	77	74
2	95	86	79	73	92	84	77	71	79	73	69	75	70	66	71	67	63	61
3	87	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53	51
4	79	67	57	50	76	65	56	50	61	54	48	58	52	47	55	50	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	32	28	37	31	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	34	29	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	20

LAMPS (number of lamps)

Luminaire budgetary diagram

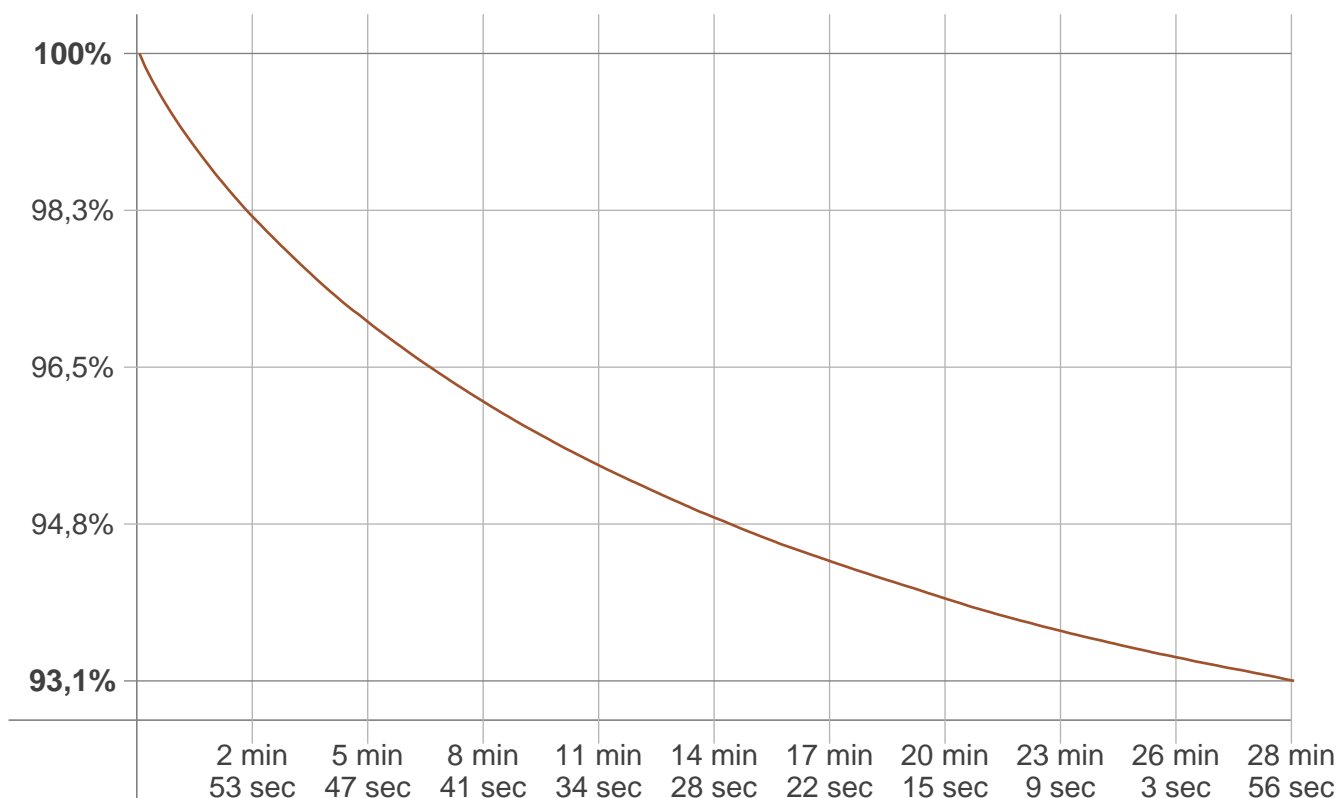


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
84,0 lm	241 lm	367 lm	446 lm	472 lm	444 lm	368 lm	256 lm	143 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
87,1 lm	57,4 lm	34,9 lm	19,0 lm	9,15 lm	4,24 lm	2,55 lm	1,55 lm	0,521 lm

Stabilization

Warmup curve



Warmup result

Warmup time:	29 min 0 sec
Warmup variation	-7,0%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
3987 K	+57 K	4044 K

Output change

Output start	Output change	Output end
3254 lm	-216 lm	3037 lm