

Light efficiency:

43 Lumen/Watt

Light quality:

CRI: 0,0

Color temperature:

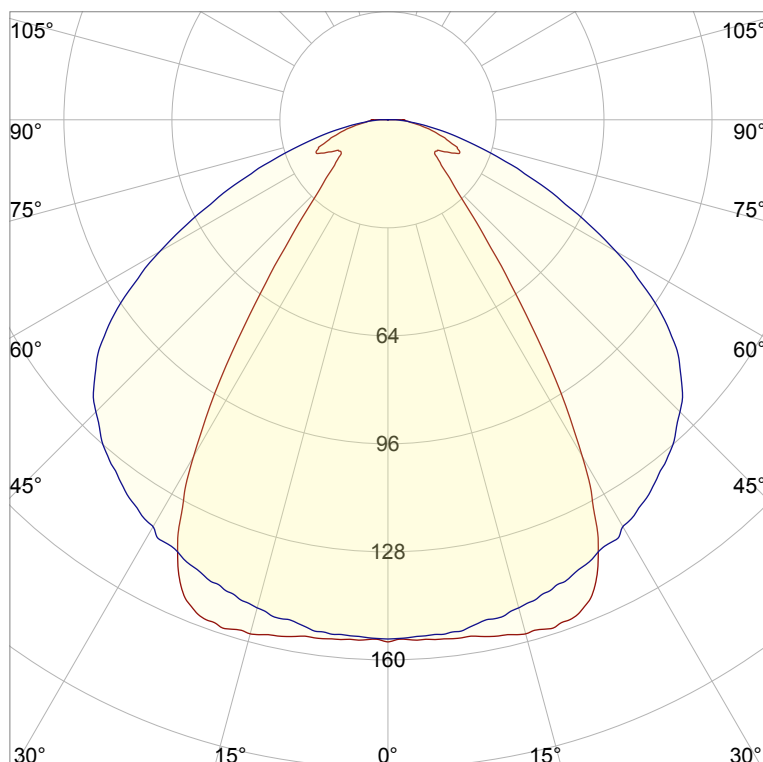
0 K

Output: 328 lm

Peak: 158 cd

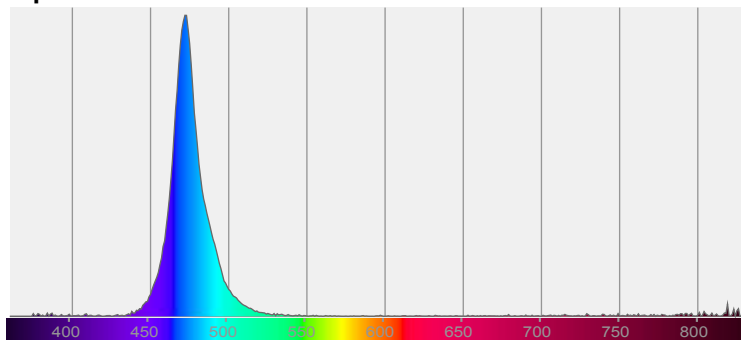
Power: 7,7 W

PF: 1,0

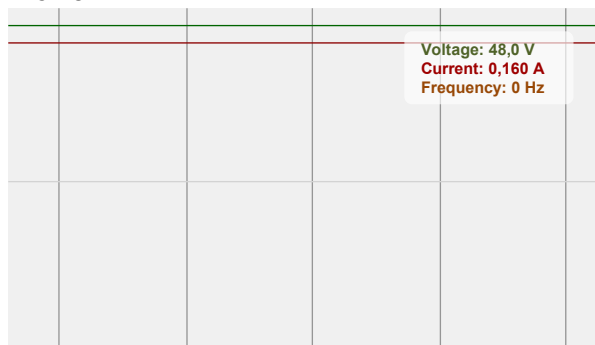


CIE 1931
x: 0,119
y: 0,098

Spectra



Power



Product name:

Defiant-0508-XXB-L6F

Item number:

FLNP/L22A0508/XXB/L6F

Date and time:

07.07.2020 14:49:19

Description:

Rank: R2G2B4/RC2GA2BA5/A

Toleranzen:

Lumen +/-4%

Candela +/-2,5%

Colour Temp +/-35 K

CRI +/-0,7

Angular Resolution 1 Grad Step

Last Calibration 20.05.2020

Pruefer:

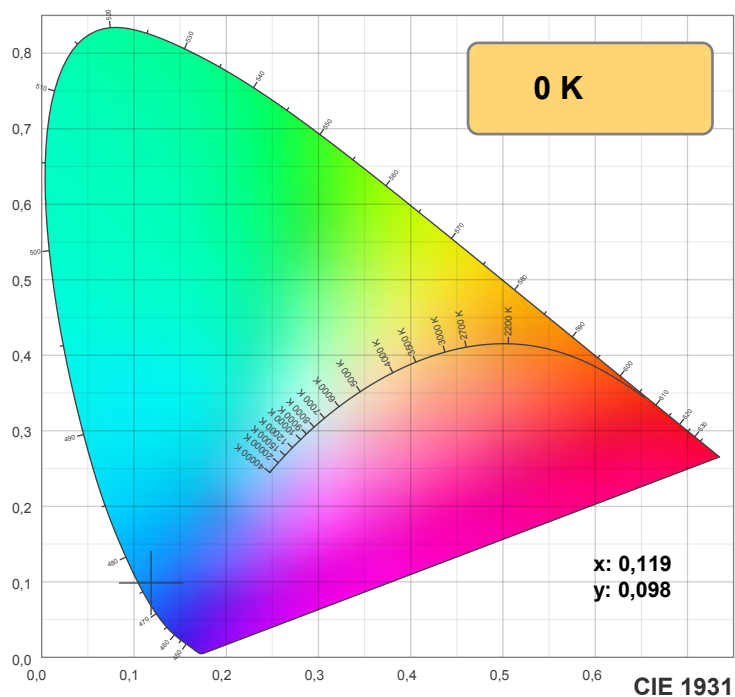
Peter Ulrich

Pruefort:

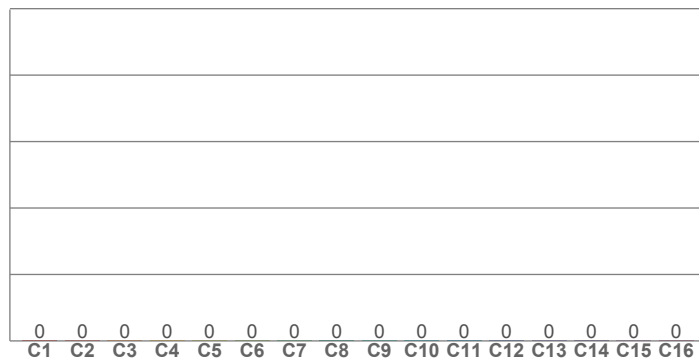
Lichtlabor

Gaustrasse 13

55411 Bingen am Rhein



TM30: 0,0



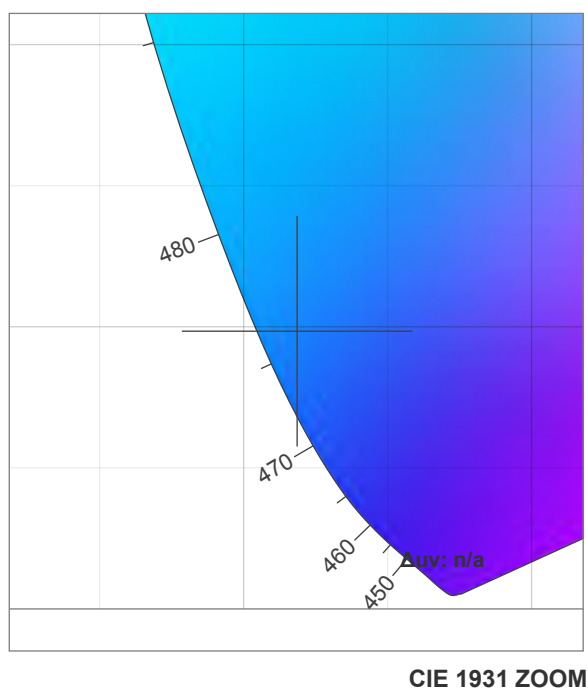
CRI R values, only R1-R8 are used to calculate final CRI value

[illegible]

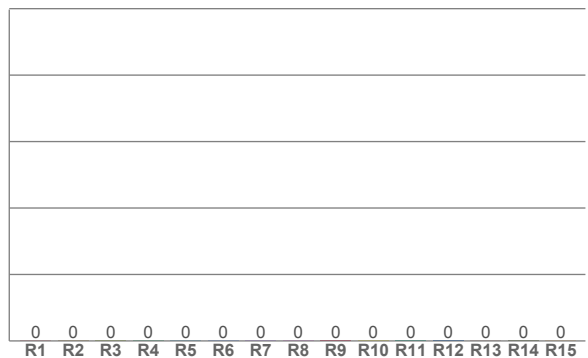
TM30 C values, 16 binned values out of total of 99 C values

[illegible]

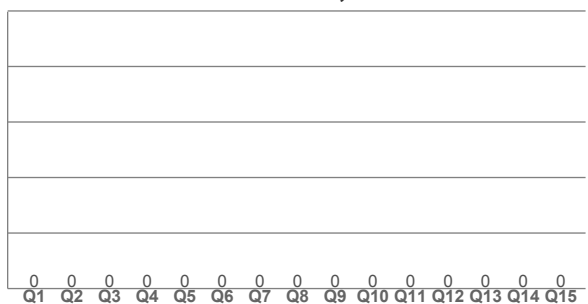
CQS Q values

[illegible]

CRI: 0,0 (R1-R8)



CQS: 0,0



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0,0	0,0	0,0	0,0	0,0	0,119	0,098	0,120	0,150	n/a

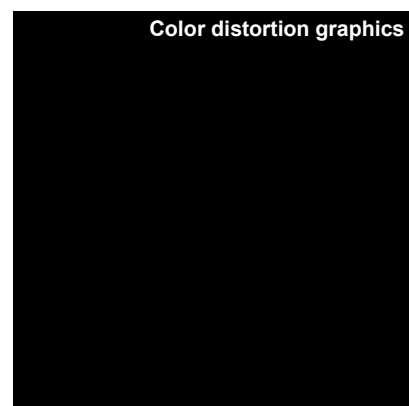
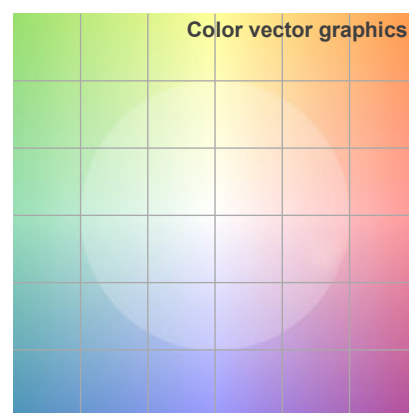
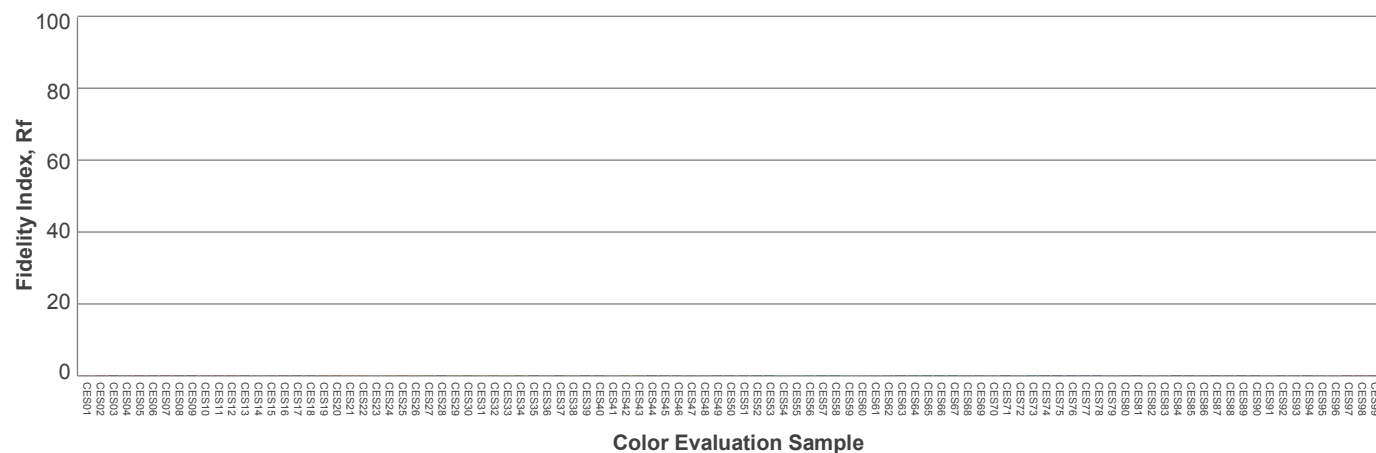
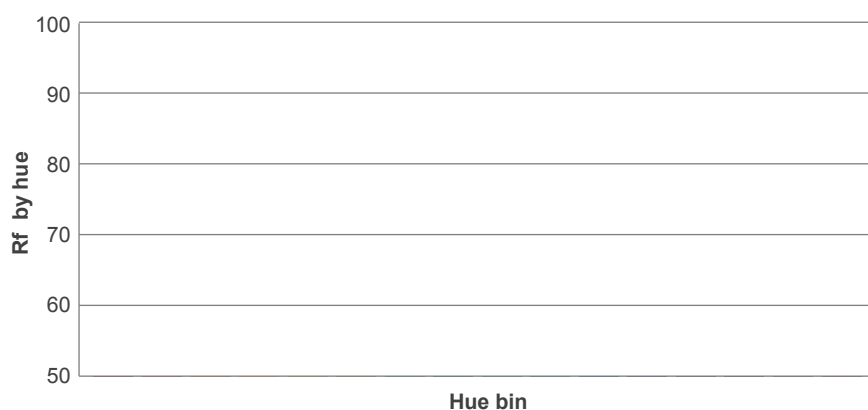
Rf 0,0

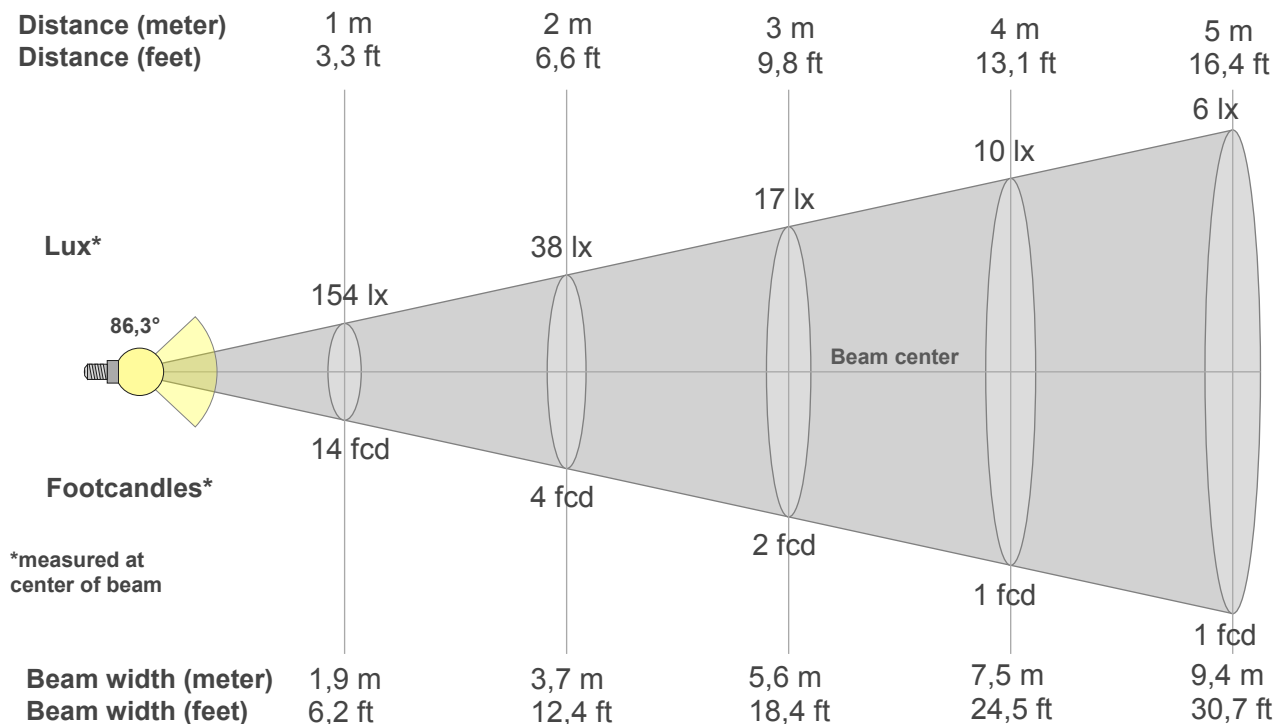
Fidelity index Rf

Rg 0,0

Gamut index Rg

		Graphic shifts (%)	
Hue Bin	R _f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%





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
154lx	38lx	17lx	10lx	6lx	4lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx
14,3fcd	3,6fcd	1,6fcd	0,9fcd	0,6fcd	0,4fcd	0,3fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0fcd	0fcd	0fcd	0fcd

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°
154	155	155	158	158	147	115	73	43	28	20	17	19	23	20	15	10	6	3	0
100%	100%	101%	102%	102%	96%	75%	48%	28%	18%	13%	11%	12%	15%	13%	10%	6%	4%	2%	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°
154	153	152	150	147	143	139	135	129	122	113	98	78	57	39	24	13	6	2	0
100%	100%	99%	97%	95%	93%	90%	88%	84%	80%	73%	64%	51%	37%	25%	15%	8%	4%	1%	0%

Intensities in 180° c-plane

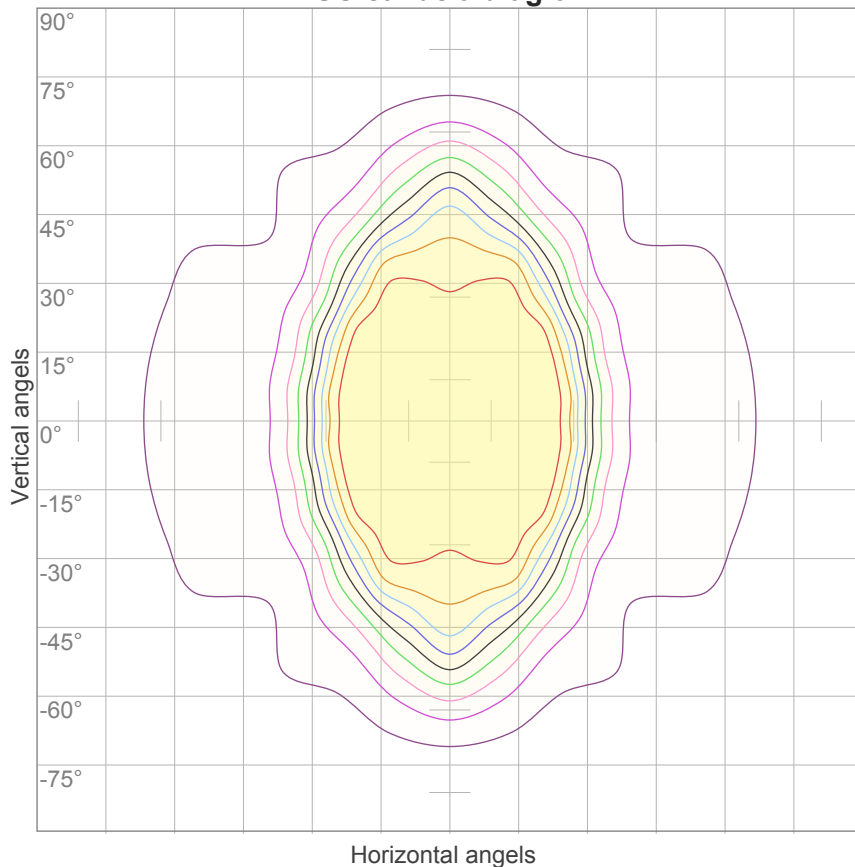
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
154	155	155	158	158	147	115	73	43	28	20	17	19	23	20	15	10	6	3	0
100%	100%	101%	102%	102%	96%	75%	48%	28%	18%	13%	11%	12%	15%	13%	10%	6%	4%	2%	0%

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°
154	153	152	150	147	143	139	135	129	122	113	98	78	57	39	24	13	6	2	0
100%	100%	99%	97%	95%	93%	90%	88%	84%	80%	73%	64%	51%	37%	25%	15%	8%	4%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
86,3°	148,1°	179,3°	85,3%	68,2%

ISO candela diagram



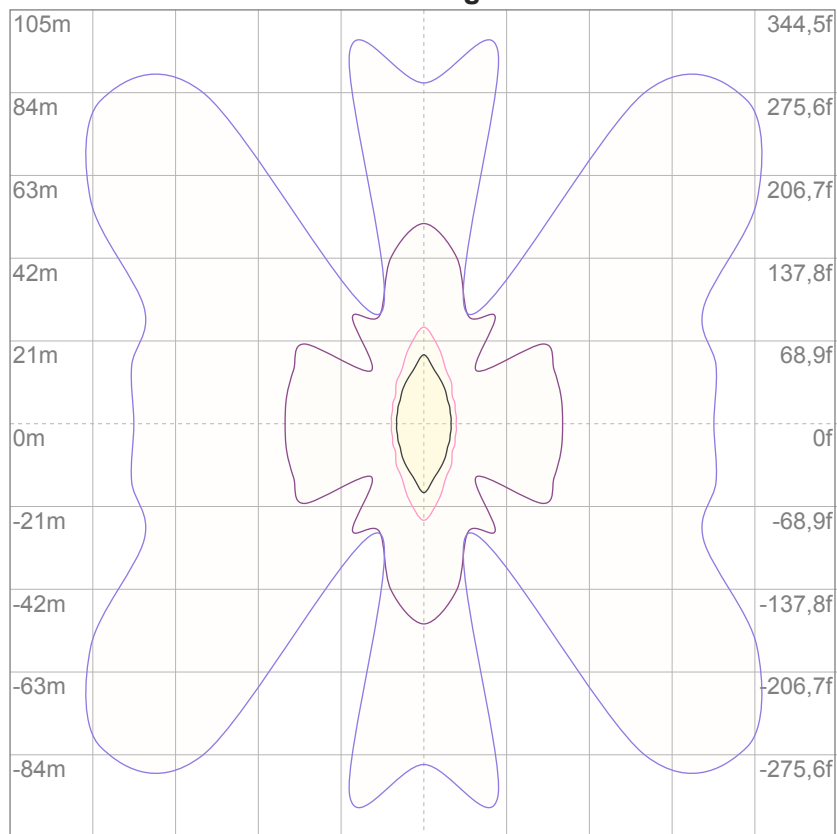
10%	15 cd
20%	31 cd
30%	46 cd
40%	62 cd
50%	77 cd
60%	92 cd
70%	108 cd
80%	123 cd
90%	138 cd

Conditions:

Number of c-planes: 16

Candela at center: 154 cd

ISO lux diagram



3%	46,2m lx
5%	76,9m lx
10%	0,154 lx
30%	0,462 lx
50%	0,769 lx

Conditions:

Number of c-planes: 16

Lux at center: 1,54 lx

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

Glare Evaluation According to UGR

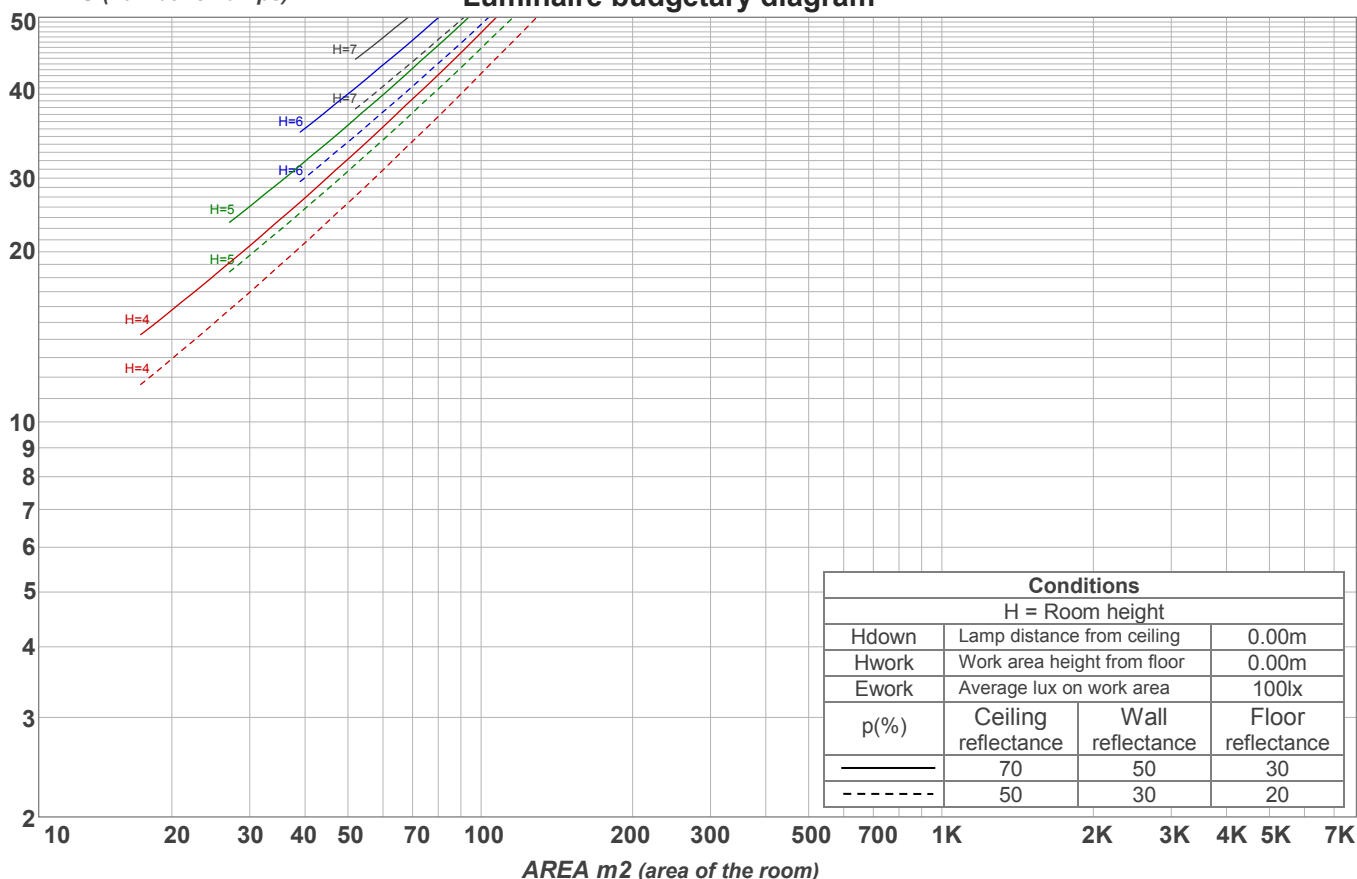
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	13,1	14,1	13,3	14,4	14,6	20,5	21,5	20,7	21,8	22,0
	3H	15,0	16,2	15,4	16,4	16,6	21,5	22,7	21,9	22,9	23,1
	4H	15,8	16,8	16,2	17,1	17,4	22,0	23,1	22,4	23,3	23,6
	6H	16,3	17,3	16,7	17,6	17,9	22,4	23,4	22,7	23,6	24,0
	8H	16,5	17,4	16,8	17,7	18,1	22,5	23,4	22,9	23,7	24,2
	12H	16,6	17,5	16,9	17,8	18,2	22,6	23,5	23,0	23,8	24,3
4H	2H	13,7	14,7	14,1	15,0	15,3	20,2	21,3	20,6	21,6	21,8
	3H	16,0	16,9	16,4	17,2	17,7	21,5	22,4	21,9	22,8	23,2
	4H	16,8	17,6	17,2	18,0	18,6	22,0	22,8	22,4	23,2	23,8
	6H	17,4	18,2	17,9	18,6	19,0	22,5	23,3	23,0	23,6	24,0
	8H	17,6	18,4	18,2	18,7	19,1	22,6	23,4	23,1	23,7	24,1
	12H	17,8	18,4	18,3	18,8	19,3	22,8	23,4	23,3	23,8	24,3
8H	4H	17,2	17,9	17,7	18,3	18,7	22,0	22,7	22,5	23,1	23,5
	6H	18,0	18,6	18,5	19,0	19,6	22,5	23,1	23,1	23,6	24,1
	8H	18,3	18,8	18,9	19,3	20,0	22,8	23,3	23,3	23,8	24,4
	12H	18,6	19,0	19,1	19,5	20,1	23,0	23,4	23,6	23,9	24,5
12H	4H	17,2	17,8	17,7	18,3	18,7	22,0	22,6	22,5	23,0	23,5
	6H	18,2	18,6	18,7	19,2	19,8	22,6	23,0	23,1	23,6	24,2
	8H	18,5	18,9	19,1	19,4	20,0	22,8	23,2	23,4	23,7	24,3
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,4 / -0,3					0,4 / -0,6				
S = 1.5H		1,0 / -0,6					1,4 / -1,6				
S = 2.0H		1,6 / -0,6					2,4 / -2,5				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 328 lm total luminous flux											

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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
3	93	84	77	71	91	83	76	70	80	74	69	77	72	68	74	70	67	65
4	87	76	68	62	84	75	67	61	72	66	61	70	64	60	68	63	59	57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	58	52	48	57	52	47	45
7	70	58	49	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31

LAMPS (number of lamps)

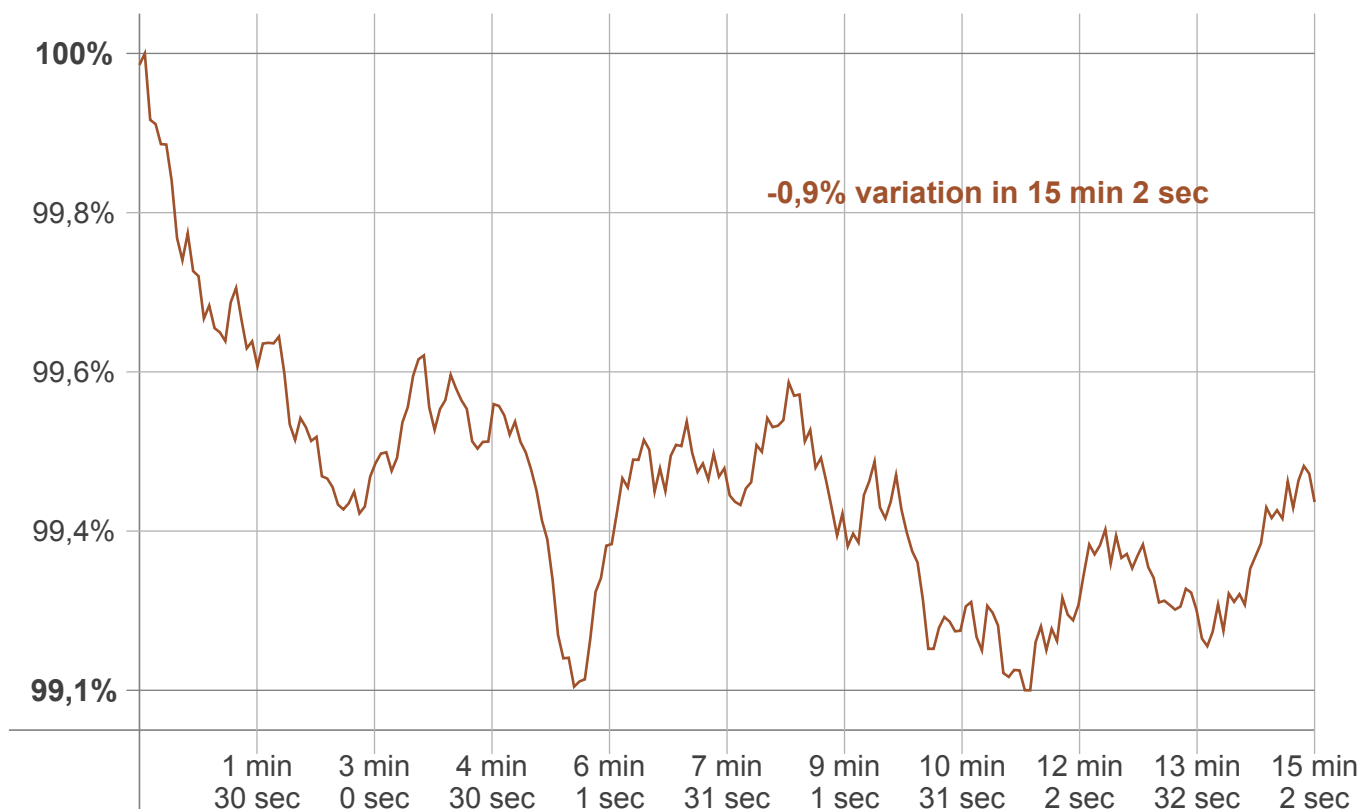
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
14,7 lm	43,6 lm	68,2 lm	69,6 lm	50,3 lm	33,2 lm	24,2 lm	16,3 lm	7,79 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,017 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:	15 min 2 sec
Warmup variation	-0,9%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
0 K	0 K	0 K

Output change

Output start	Output change	Output end
329 lm	-1 lm	328 lm