

Light efficiency:

130 Lumen/Watt

Light quality:

CRI: 0,0

Color temperature:

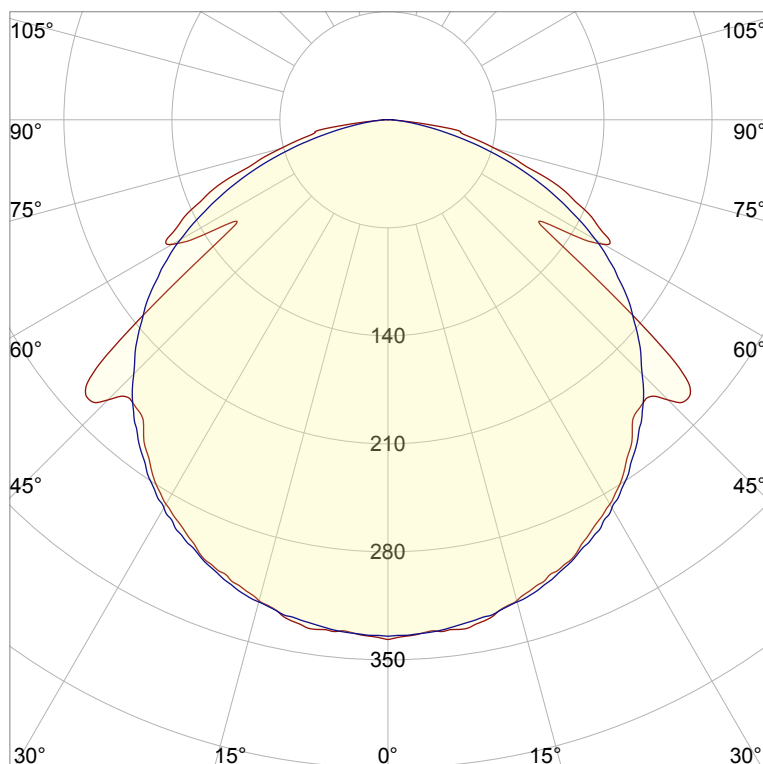
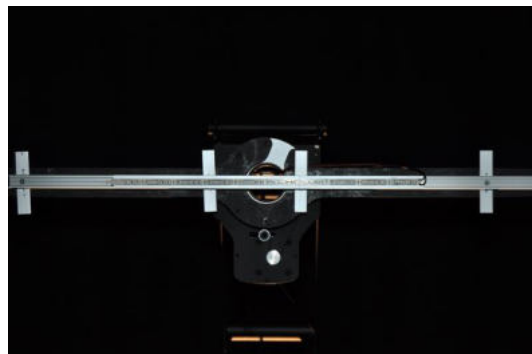
0 K

Output: 998 lm

Peak: 337 cd

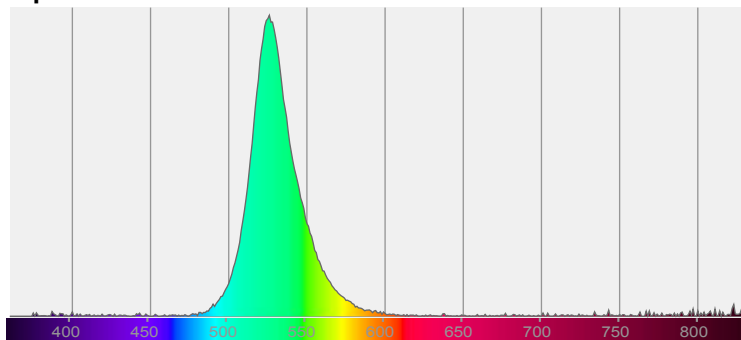
Power: 7,7 W

PF: 1,0

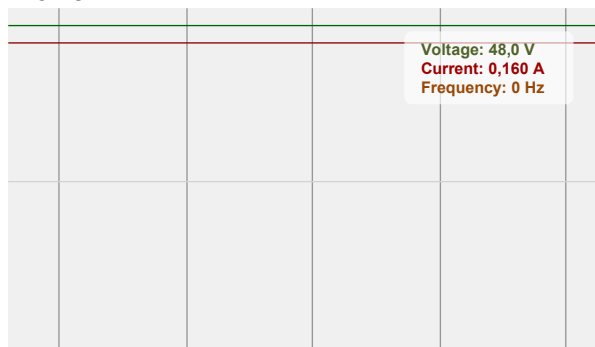


CIE 1931
x: 0,198
y: 0,734

Spectra



Power



Product name:

Defiant-0508-XXG-CST

Item number:

FLNP/L22A0508/XXG/CST

Date and time:

30.06.2020 10:52:39

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:

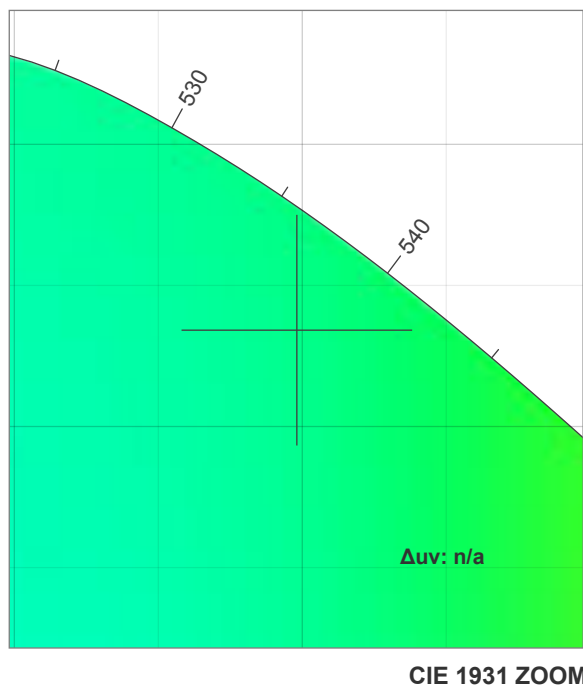
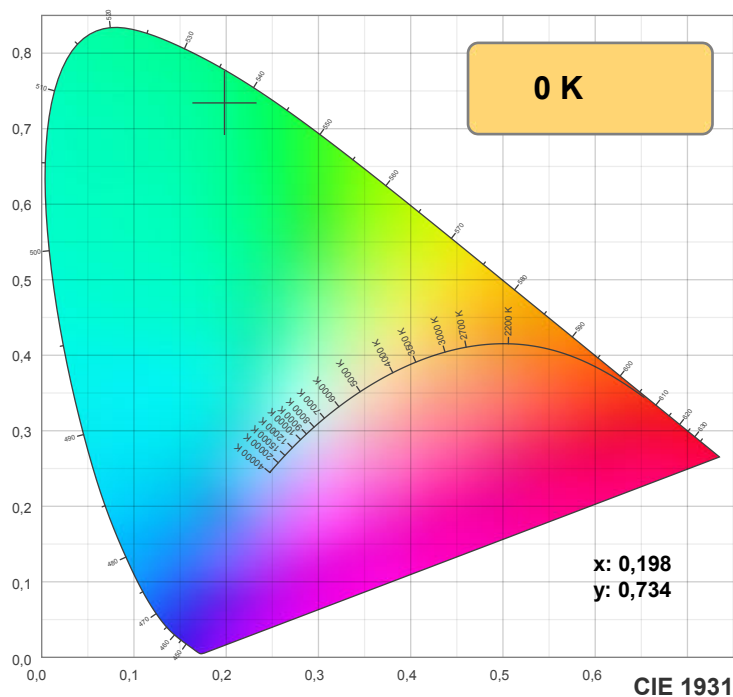
Peter Ulrich

Pruefort:

Lichtlabor

Gaustrasse 13

55411 Bingen am Rhein



TM30: 0,0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16	

CRI: 0,0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15		

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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

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

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0

CQS: 0,0

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15		

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 deviation 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	0,198	0,734	0,069	0,386	n/a

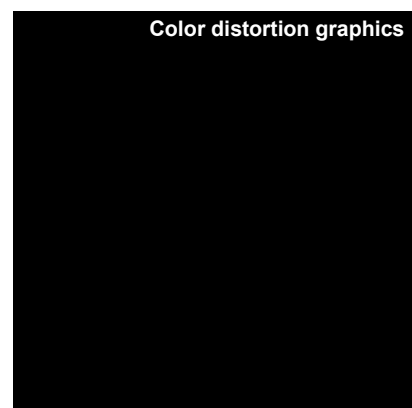
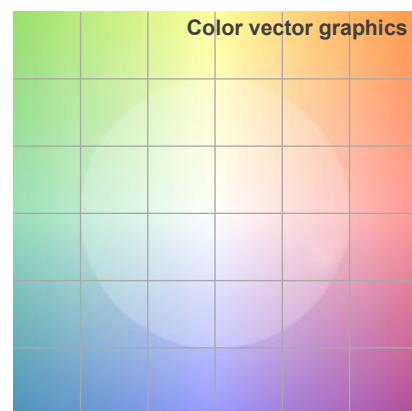
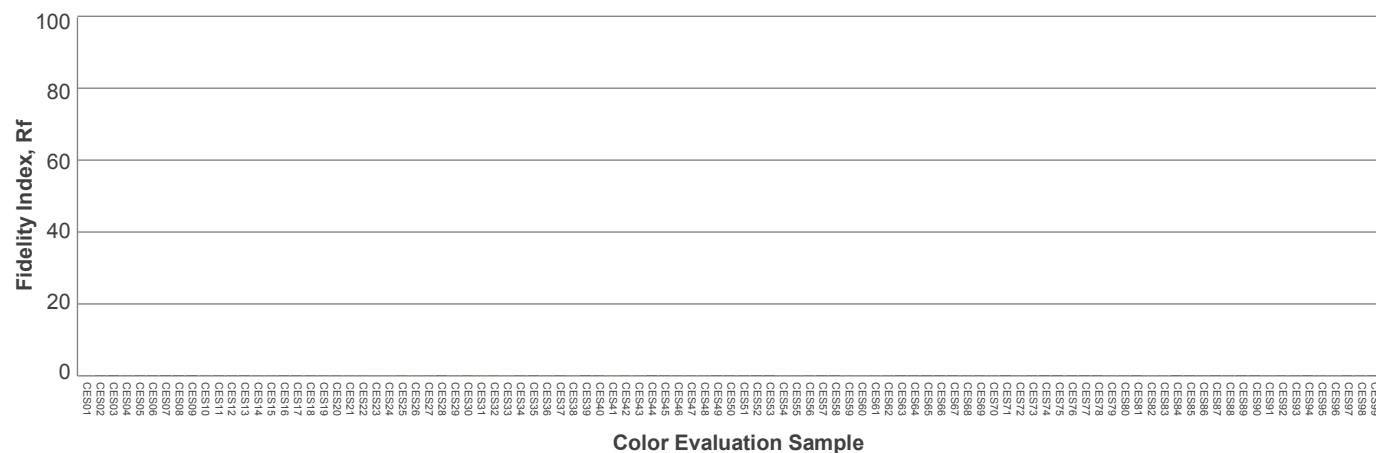
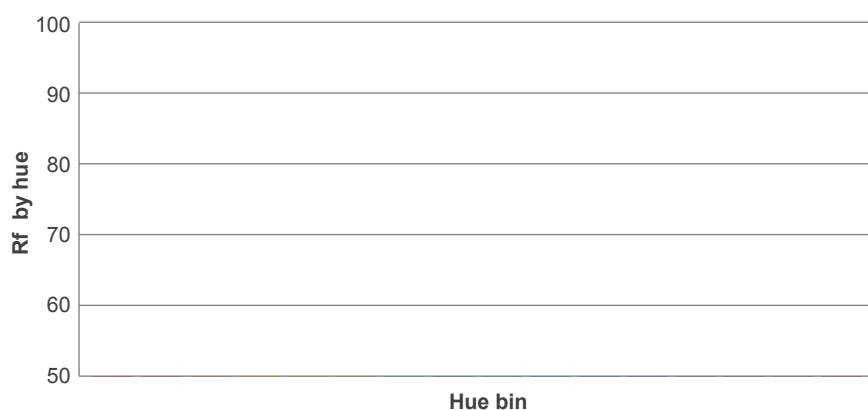
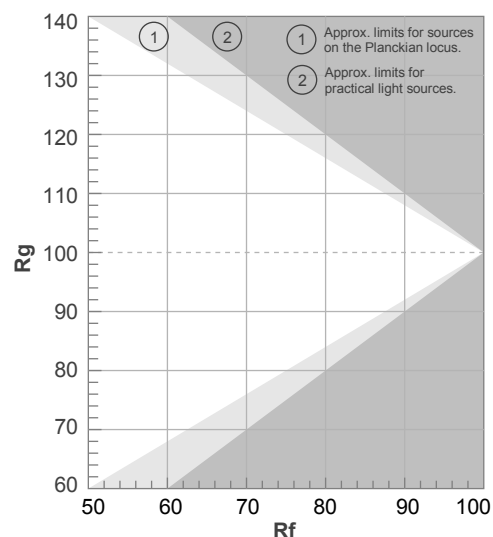
Rf 0,0

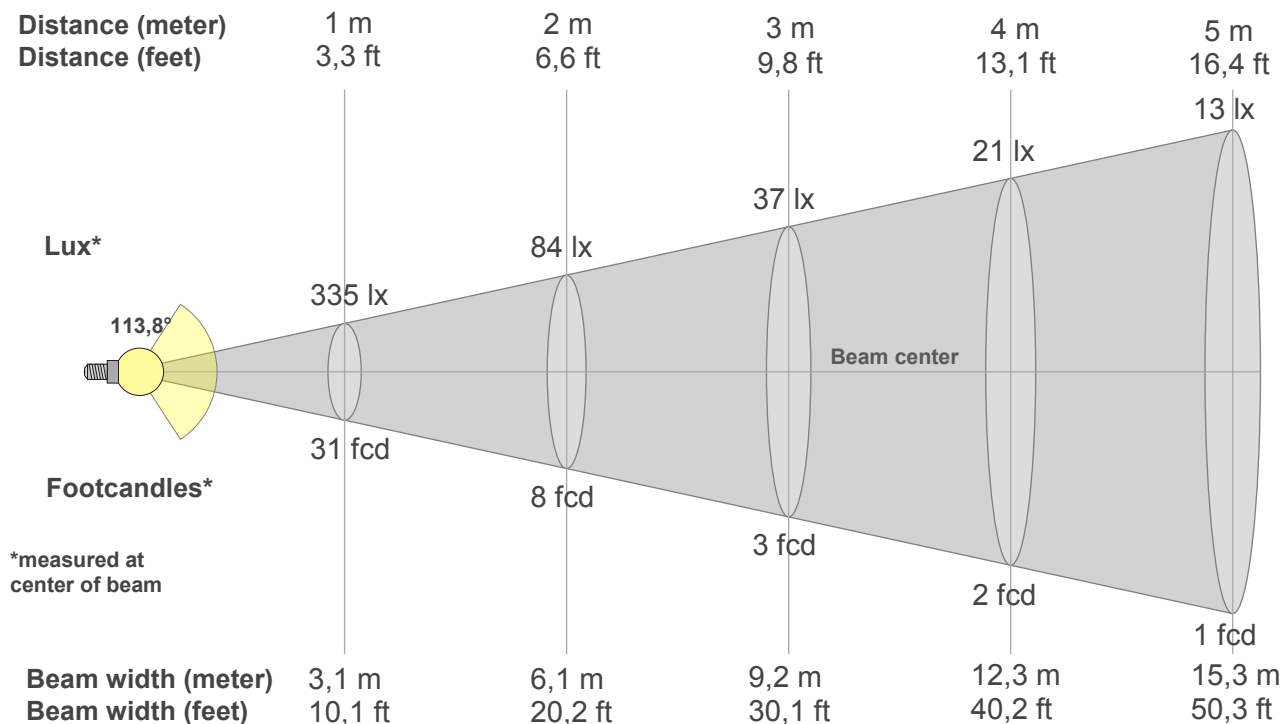
Fidelity index Rf

Rg 0,0

Gammut 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
335lx	84lx	37lx	21lx	13lx	9lx	7lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx
31,2fcd	7,8fcd	3,5fcd	1,9fcd	1,2fcd	0,9fcd	0,6fcd	0,5fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd

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°
335	332	332	323	313	301	288	270	249	257	239	126	161	143	108	72	48	11	1	1
100%	99%	99%	96%	93%	90%	86%	80%	74%	77%	71%	38%	48%	43%	32%	21%	14%	3%	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°
335	333	329	323	315	304	290	274	255	233	210	184	155	122	89	54	25	9	1	1
100%	99%	98%	96%	94%	91%	87%	82%	76%	69%	63%	55%	46%	37%	26%	16%	8%	3%	0%	0%

Intensities in 180° c-plane

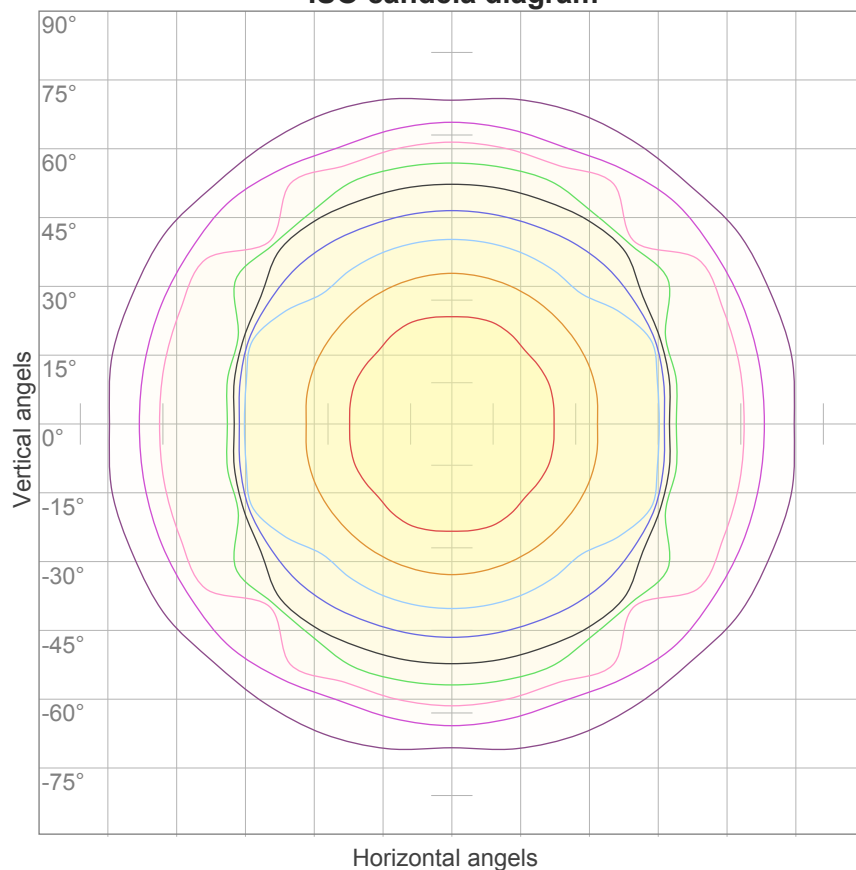
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
335	332	332	323	313	301	288	270	249	257	239	126	161	143	108	72	48	11	1	1
100%	99%	99%	96%	93%	90%	86%	80%	74%	77%	71%	38%	48%	43%	32%	21%	14%	3%	0%	0%

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°
335	333	329	323	315	304	290	274	255	233	210	184	155	122	89	54	25	9	1	1
100%	99%	98%	96%	94%	91%	87%	82%	76%	69%	63%	55%	46%	37%	26%	16%	8%	3%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
113,8°	163,3°	173,4°	78,0%	52,5%

ISO candela diagram



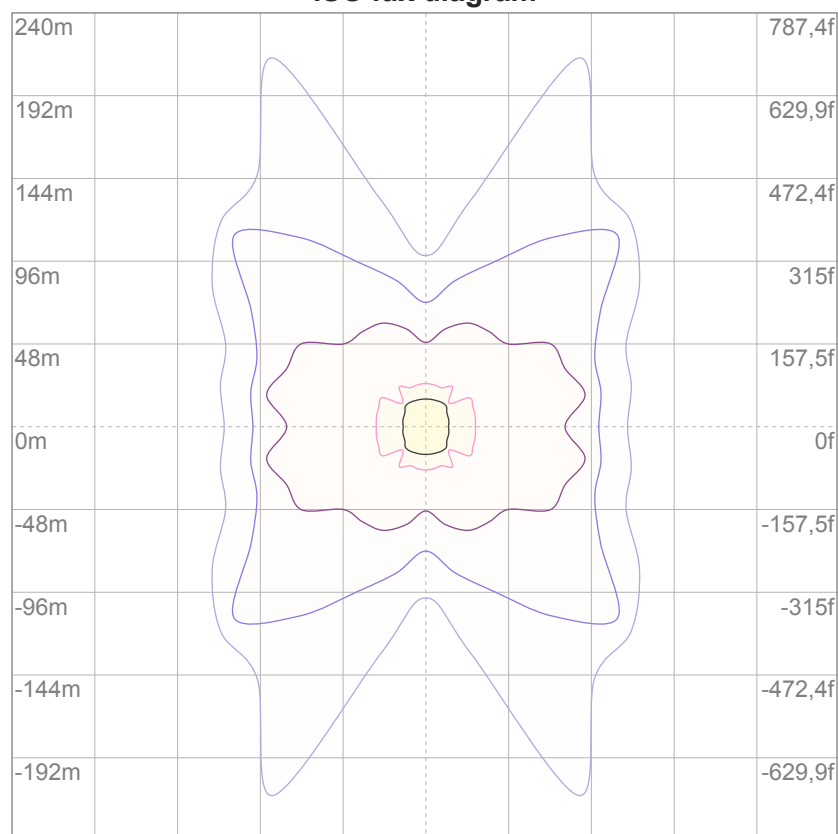
10%	34 cd
20%	67 cd
30%	101 cd
40%	134 cd
50%	168 cd
60%	201 cd
70%	235 cd
80%	268 cd
90%	302 cd

Conditions:

Number of c-planes: 16

Candela at center: 335 cd

ISO lux diagram



3%	0,101 lx
5%	0,168 lx
10%	0,335 lx
30%	1,01 lx
50%	1,68 lx

Conditions:

Number of c-planes: 16

Lux at center: 3,35 lx

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

Glare Evaluation According to UGR

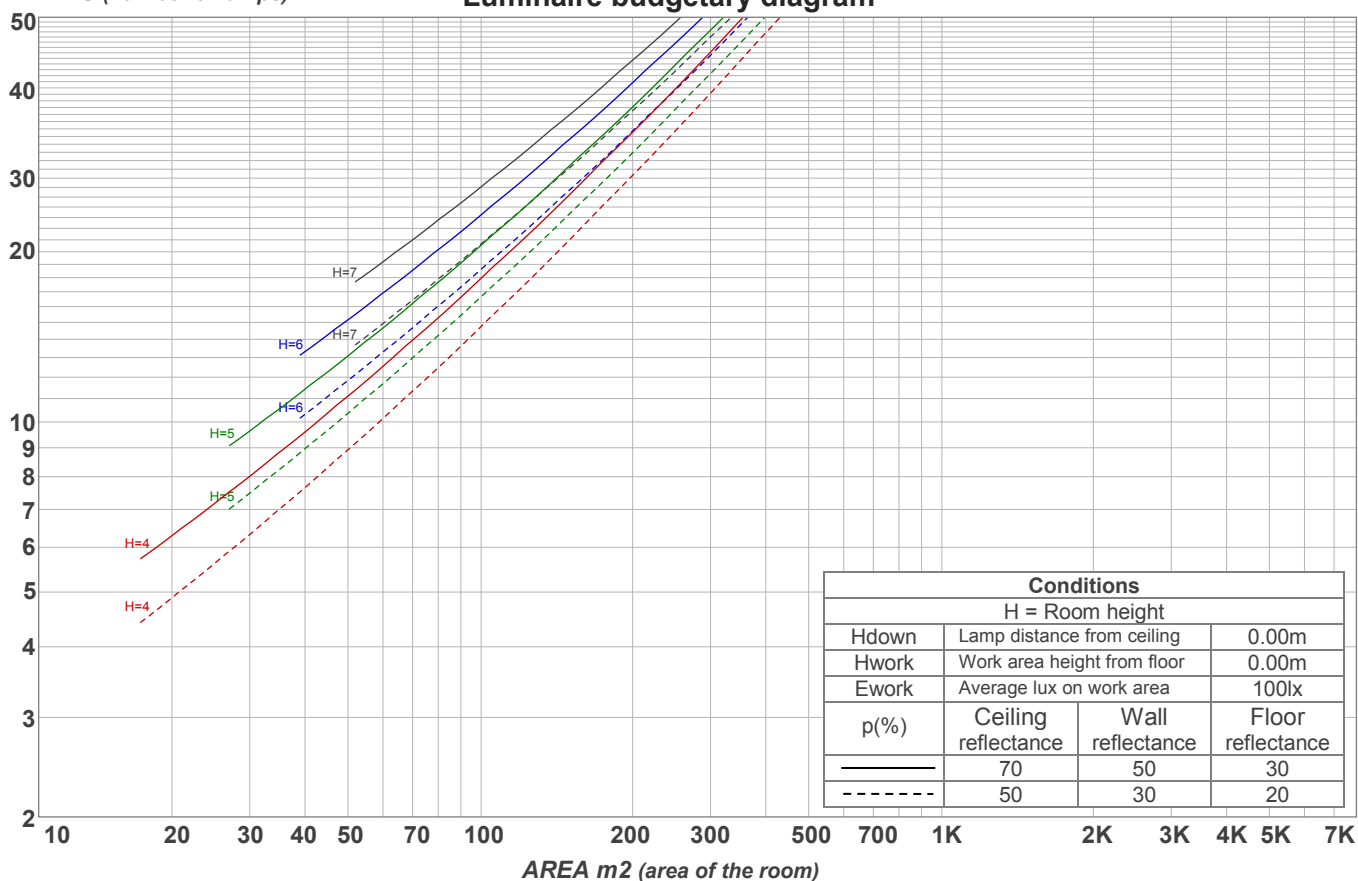
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	22,5	23,7	22,7	24,1	24,3	23,6	24,9	23,9	25,2	25,4
	3H	24,0	25,2	24,4	25,5	25,7	24,8	26,1	25,3	26,4	26,6
	4H	24,4	25,6	24,8	25,9	26,2	25,3	26,5	25,7	26,7	27,0
	6H	24,8	25,8	25,1	26,1	26,5	25,6	26,6	25,9	26,9	27,3
	8H	24,9	25,9	25,2	26,2	26,6	25,6	26,6	25,9	27,0	27,4
	12H	24,8	25,8	25,2	26,2	26,6	25,6	26,6	26,0	26,9	27,4
4H	2H	23,1	24,3	23,5	24,6	24,8	23,9	25,2	24,3	25,4	25,7
	3H	24,9	25,9	25,2	26,2	26,7	25,5	26,5	25,9	26,8	27,3
	4H	25,4	26,3	25,8	26,7	27,2	25,9	26,8	26,3	27,2	27,8
	6H	25,7	26,6	26,2	27,0	27,3	26,2	27,1	26,7	27,5	27,9
	8H	25,9	26,7	26,4	27,0	27,4	26,3	27,1	26,8	27,5	27,9
	12H	25,9	26,6	26,4	27,0	27,5	26,3	27,0	26,8	27,5	27,9
8H	4H	25,6	26,4	26,1	26,8	27,2	26,1	26,9	26,6	27,3	27,6
	6H	26,1	26,7	26,6	27,2	27,7	26,6	27,2	27,1	27,7	28,2
	8H	26,3	26,9	26,8	27,4	28,0	26,7	27,3	27,3	27,8	28,4
	12H	26,4	26,8	27,0	27,3	27,9	26,8	27,3	27,4	27,8	28,4
12H	4H	25,6	26,3	26,1	26,7	27,2	26,1	26,7	26,6	27,2	27,6
	6H	26,2	26,7	26,7	27,2	27,9	26,6	27,2	27,1	27,7	28,3
	8H	26,4	26,8	27,0	27,3	28,0	26,8	27,2	27,4	27,7	28,4
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,3 / -0,3					0,1 / -0,1				
S = 1.5H		0,6 / -0,6					0,3 / -0,5				
S = 2.0H		0,9 / -0,6					0,8 / -0,9				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 998 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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

LAMPS (number of lamps)

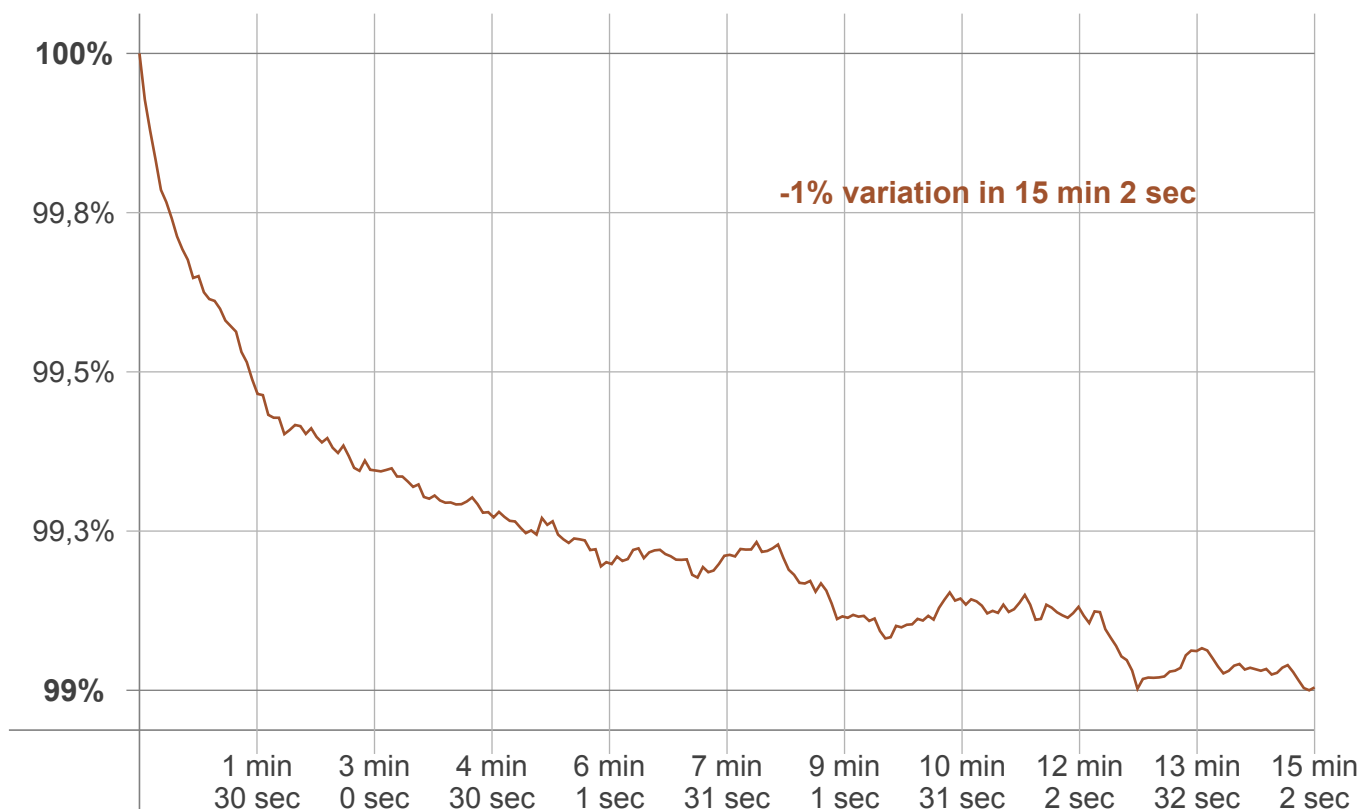
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
31,7 lm	91,4 lm	140 lm	170 lm	185 lm	160 lm	125 lm	72,0 lm	19,9 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1,03 lm	0,991 lm	0,426 lm	0,240 lm	0,101 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	-1,0%

Warmup conditions

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

Color temperature change

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

Output change

Output start	Output change	Output end
1005 lm	-7 lm	998 lm