

Light efficiency:

44 Lumen/Watt

Light quality:

CRI: 0,0

Color temperature:

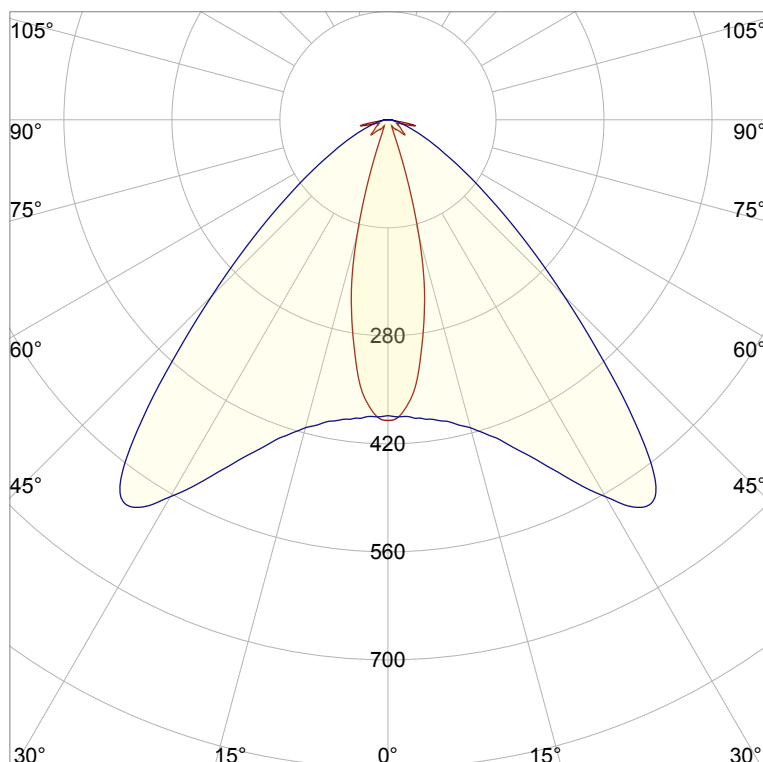
0 K

Output: 340 lm

Peak: 603 cd

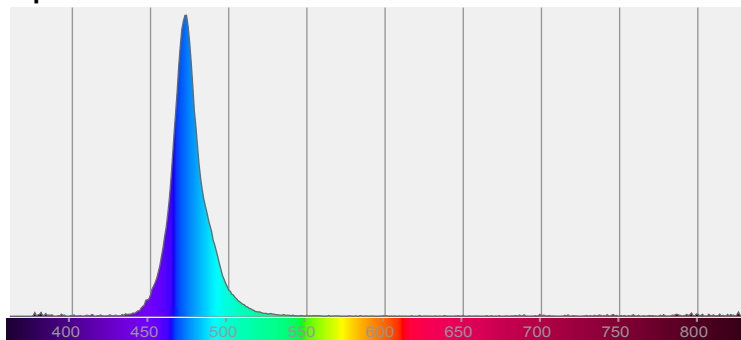
Power: 7,7 W

PF: 1,0

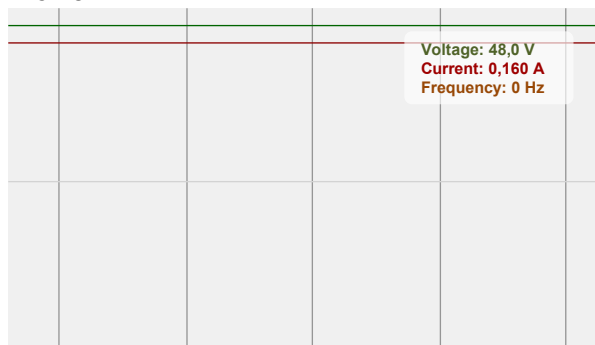


CIE 1931
x: 0,118
y: 0,098

Spectra



Power



Product name:

Defiant-0508-XXB-L3T

Item number:

FLNP/L22A0508/XXB/L3T

Date and time:

08.07.2020 10:32:47

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:

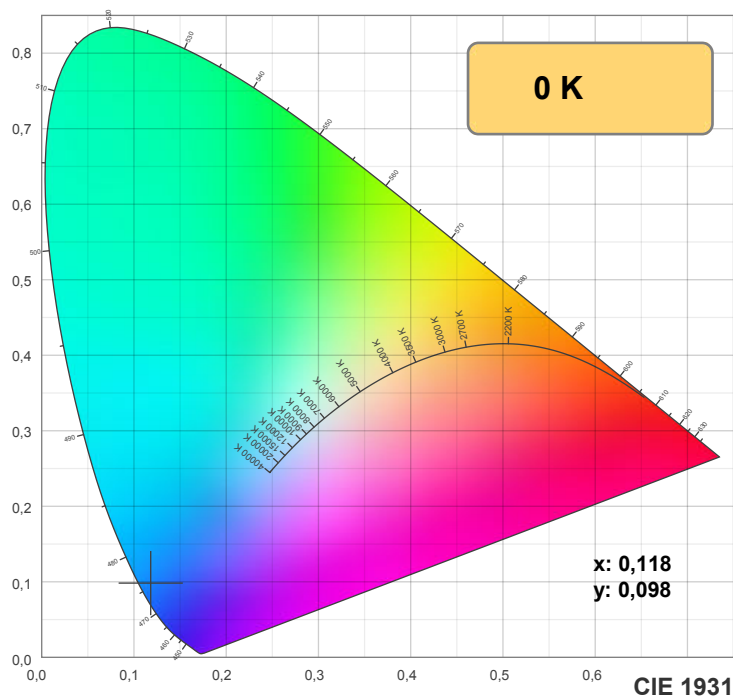
Peter Ulrich

Pruefort:

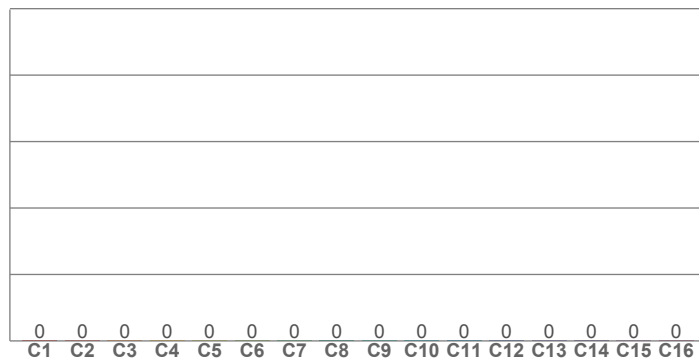
Lichtlabor

Gaustrasse 13

55411 Bingen am Rhein



TM30: 0,0



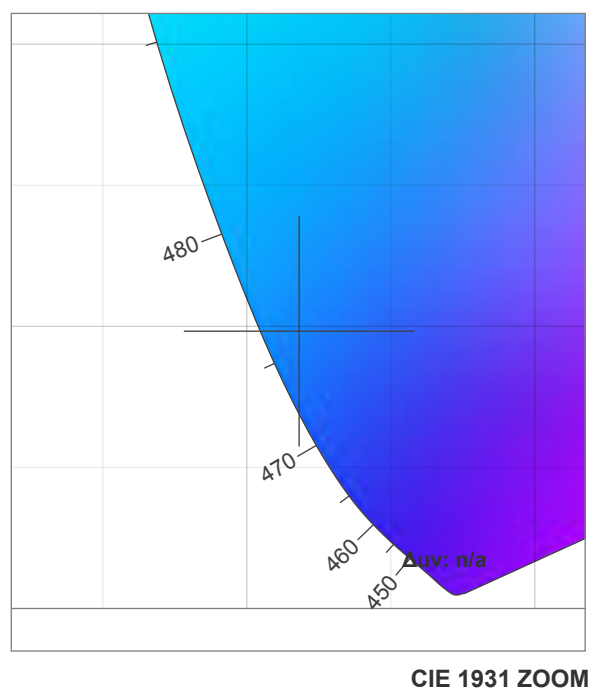
CRI R values, only R1-R8 are used to calculate final CRI value

[illegible]

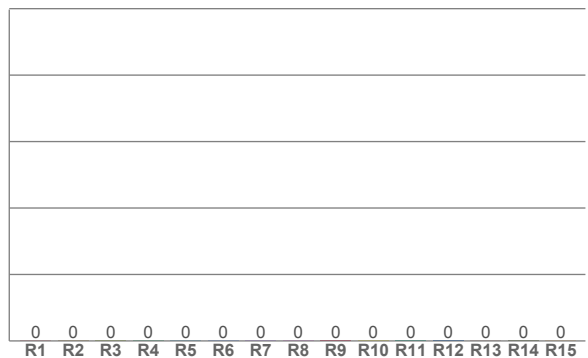
TM30 C values, 16 binned values out of total of 99 C values

[illegible]

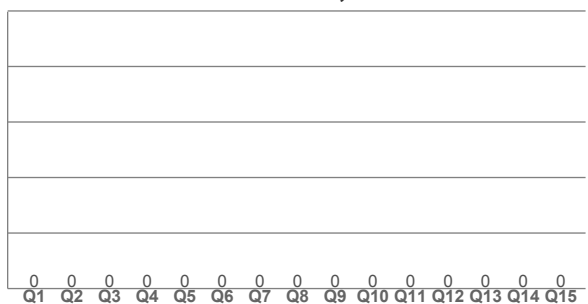
CQS Q values

[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 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	0,118	0,098	0,120	0,150	n/a

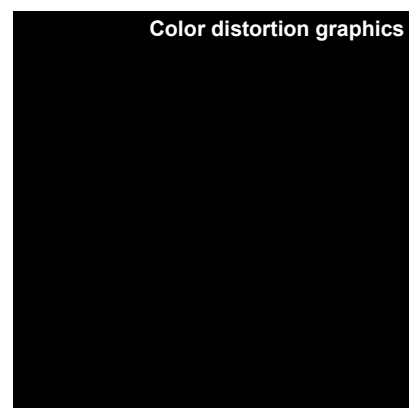
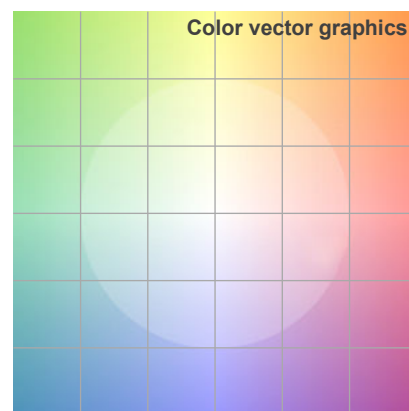
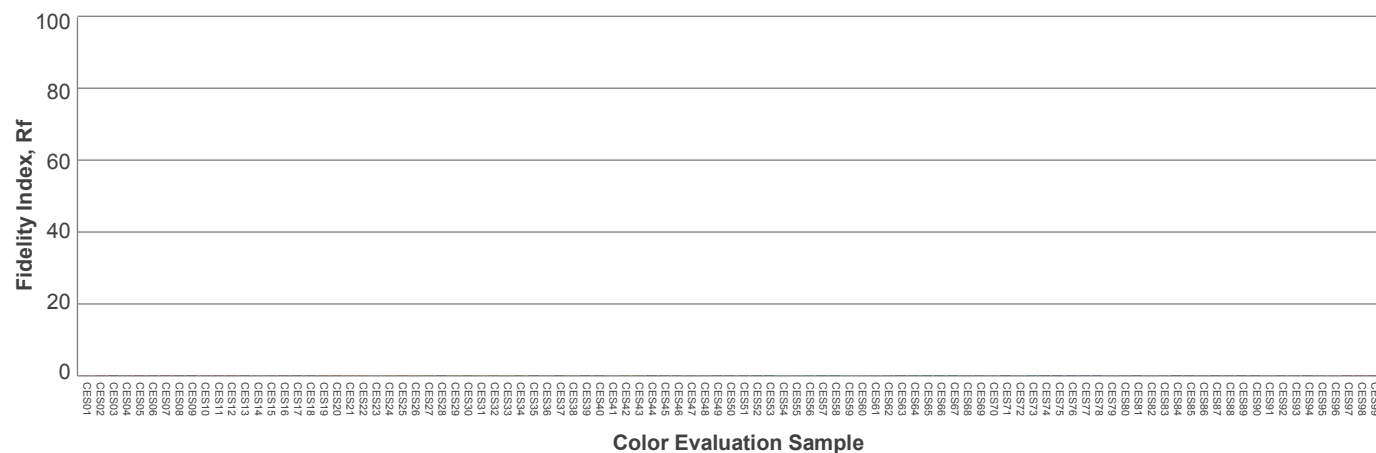
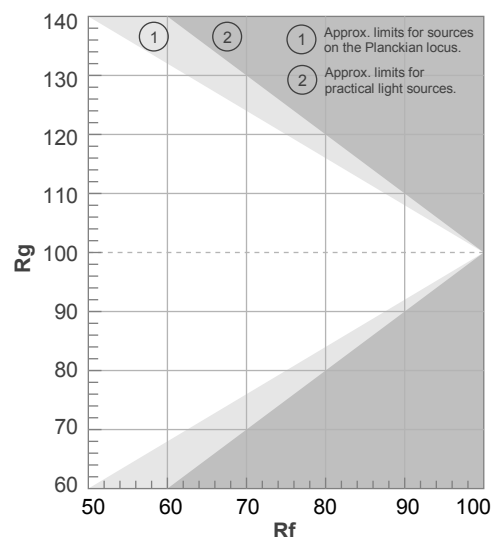
Rf 0,0

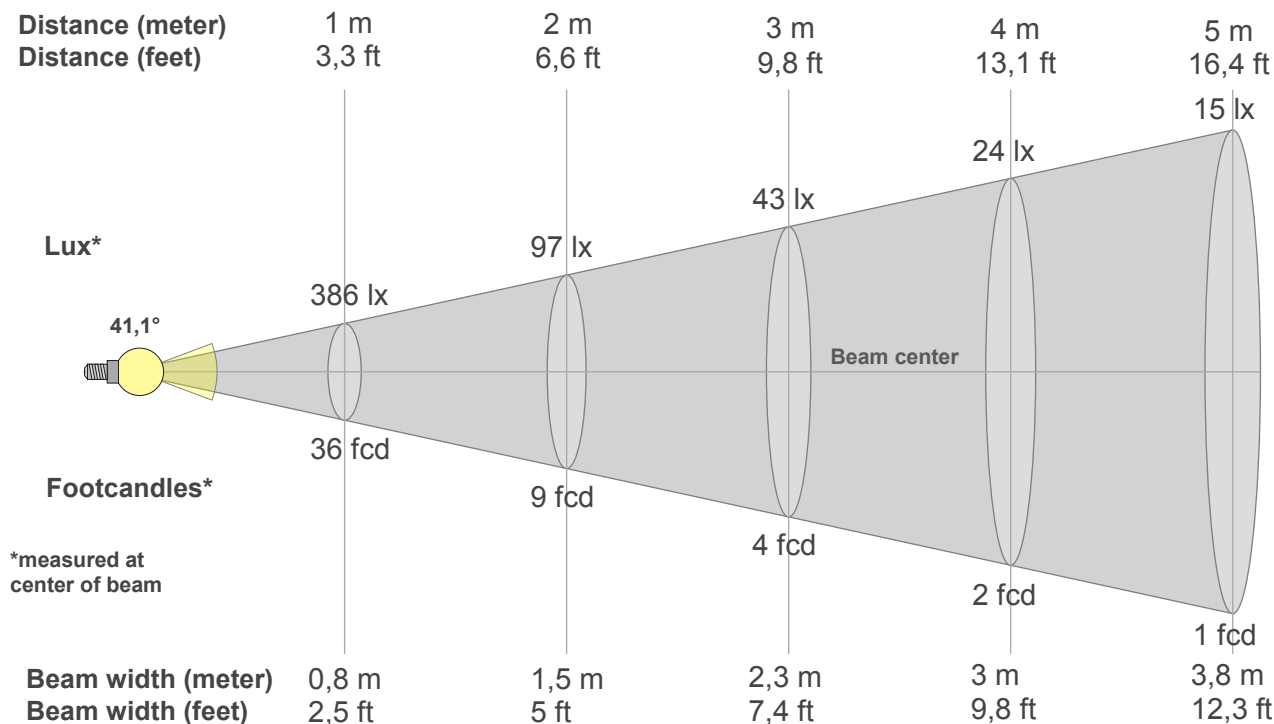
Fidelity index Rf

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
386lx	97lx	43lx	24lx	15lx	11lx	8lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx
35,9fcd	9fcd	4fcd	2,2fcd	1,4fcd	1fcd	0,7fcd	0,6fcd	0,4fcd	0,4fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
386	385	369	345	307	268	228	180	127	80	45	26	17	13	11	10	9	11	14	16
100%	100%	96%	89%	79%	69%	59%	47%	33%	21%	12%	7%	5%	3%	3%	3%	2%	3%	4%	4%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
386	385	386	389	392	396	401	409	419	431	446	465	486	510	538	564	590	602	590	545
100%	100%	100%	101%	101%	103%	104%	106%	108%	112%	115%	120%	126%	132%	139%	146%	153%	156%	153%	141%

Intensities in 180° c-plane

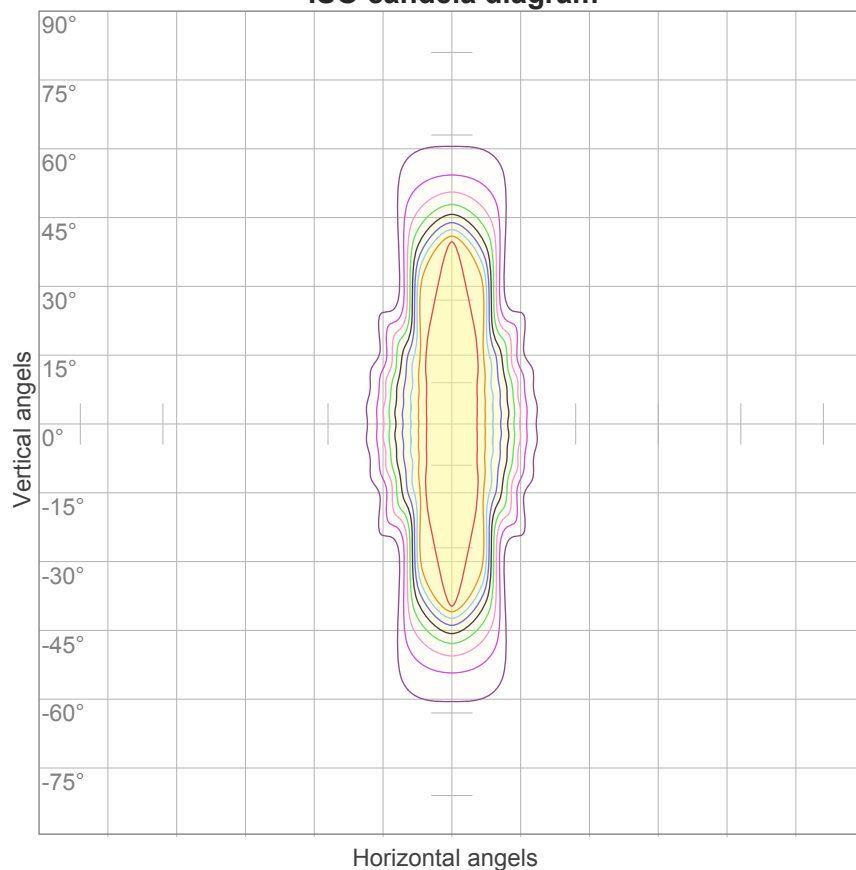
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
386	385	369	345	307	268	228	180	127	80	45	26	17	13	11	10	9	11	14	16
100%	100%	96%	89%	79%	69%	59%	47%	33%	21%	12%	7%	5%	3%	3%	3%	2%	3%	4%	4%

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
386	385	386	389	392	396	401	409	419	431	446	465	486	510	538	564	590	602	590	545
100%	100%	100%	101%	101%	103%	104%	106%	108%	112%	115%	120%	126%	132%	139%	146%	153%	156%	153%	141%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
41,1°	58,8°	165,1°	87,5%	72,6%

ISO candela diagram



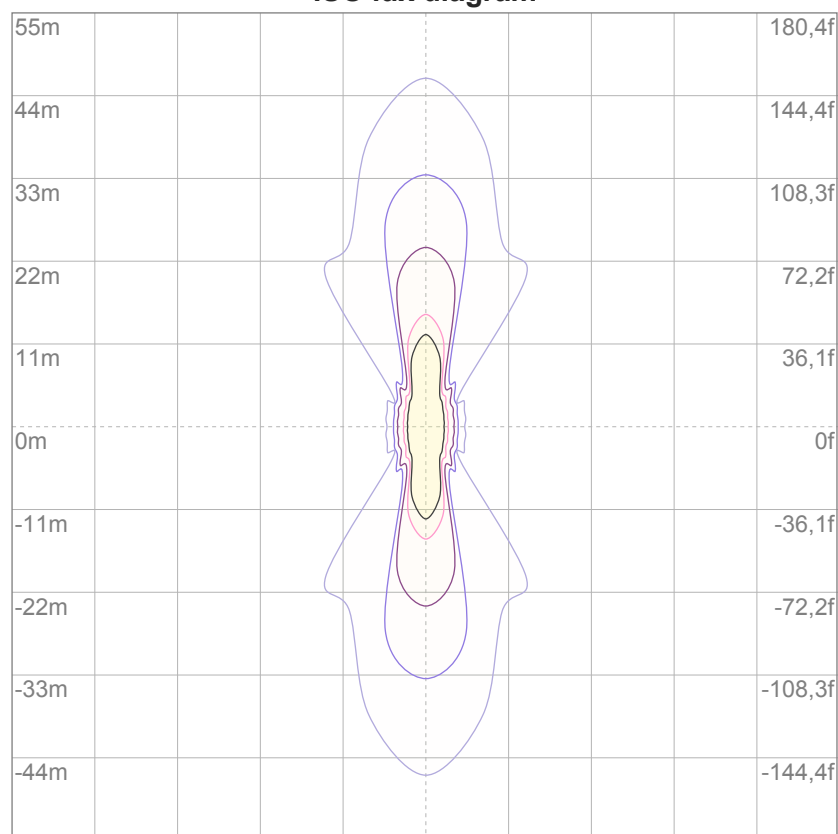
10%	39 cd
20%	77 cd
30%	116 cd
40%	154 cd
50%	193 cd
60%	232 cd
70%	270 cd
80%	309 cd
90%	347 cd

Conditions:

Number of c-planes: 16

Candela at center: 386 cd

ISO lux diagram



3%	0,116 lx
5%	0,193 lx
10%	0,386 lx
30%	1,16 lx
50%	1,93 lx

Conditions:

Number of c-planes: 16

Lux at center: 3,86 lx

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

Glare Evaluation According to UGR

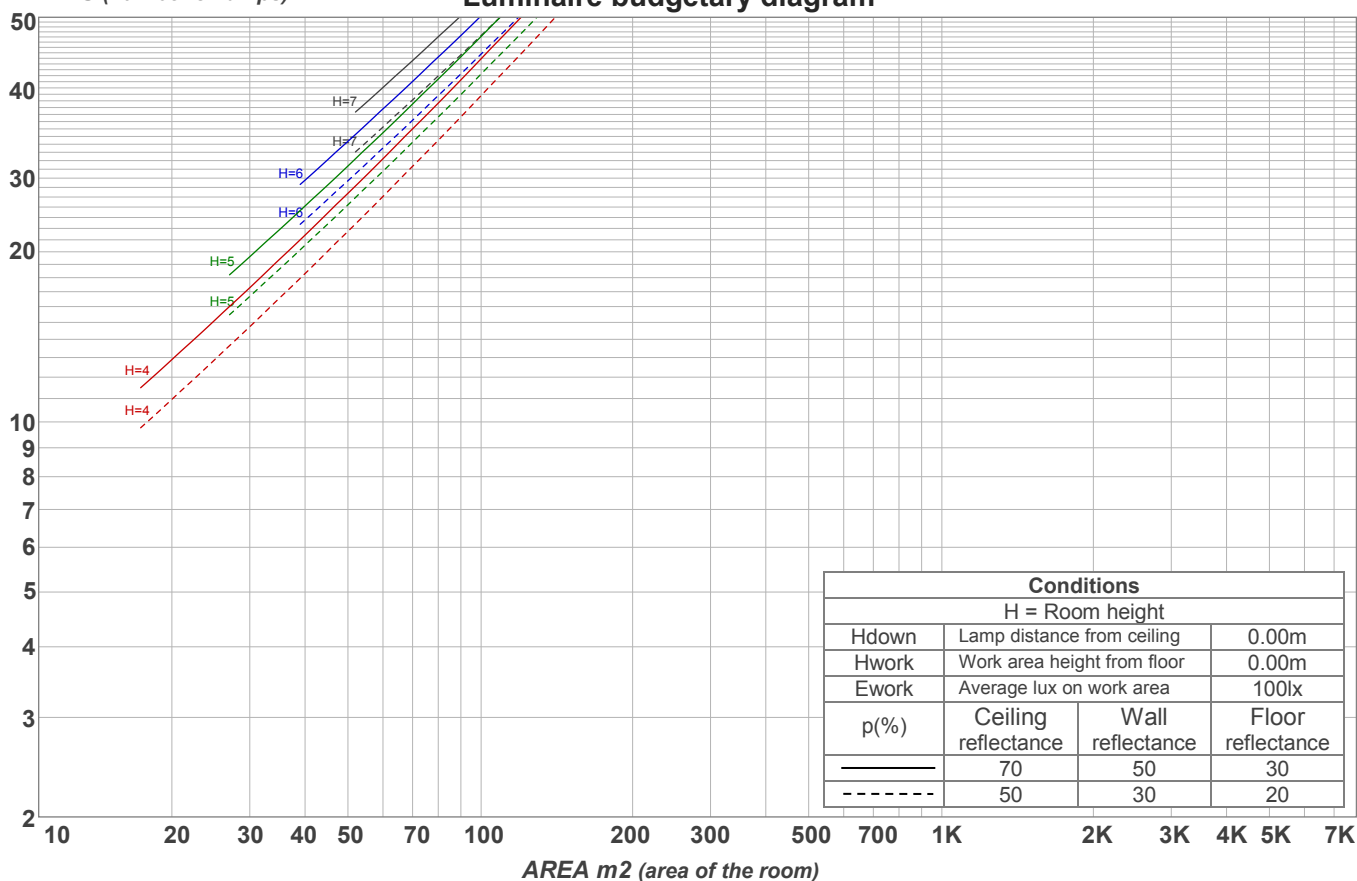
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	10,5	11,4	10,7	11,7	11,9	21,7	22,6	21,9	22,9	23,1
	3H	12,0	13,0	12,4	13,2	13,4	22,0	23,0	22,4	23,3	23,5
	4H	14,2	15,2	14,6	15,5	15,7	22,2	23,1	22,6	23,4	23,6
	6H	17,7	18,6	18,0	18,9	19,2	22,3	23,2	22,6	23,5	23,8
	8H	17,9	18,7	18,3	19,1	19,5	22,4	23,2	22,7	23,5	23,9
	12H	17,9	18,7	18,3	19,1	19,5	22,4	23,2	22,7	23,5	23,9
4H	2H	11,1	12,0	11,5	12,3	12,5	21,4	22,4	21,8	22,6	22,9
	3H	12,9	13,7	13,3	14,0	14,5	21,9	22,7	22,2	23,0	23,5
	4H	15,3	16,1	15,8	16,5	17,0	22,0	22,7	22,4	23,2	23,7
	6H	19,1	19,9	19,6	20,2	20,6	22,2	22,9	22,7	23,2	23,6
	8H	19,4	20,1	19,9	20,5	20,8	22,2	22,9	22,7	23,3	23,6
	12H	19,4	20,0	19,9	20,4	20,9	22,3	22,9	22,8	23,3	23,7
8H	4H	15,8	16,5	16,3	16,8	17,2	21,9	22,6	22,4	23,0	23,4
	6H	19,9	20,4	20,4	20,9	21,4	22,2	22,7	22,7	23,1	23,7
	8H	20,3	20,8	20,8	21,3	21,9	22,4	22,8	22,9	23,3	23,9
	12H	20,4	20,8	21,0	21,3	21,9	22,5	22,8	23,1	23,3	23,9
12H	4H	15,8	16,4	16,3	16,8	17,3	22,0	22,5	22,4	22,9	23,4
	6H	20,0	20,5	20,6	21,0	21,6	22,3	22,7	22,8	23,2	23,9
	8H	20,5	20,9	21,1	21,4	22,0	22,5	22,8	23,1	23,3	24,0
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / 0,0					2,2 / -2,4				
S = 1.5H		0,1 / -0,1					4,3 / -3,5				
S = 2.0H		0,3 / -0,3					6,0 / -4,1				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 340 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	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77
3	96	87	80	75	94	86	79	74	83	78	73	80	76	72	78	74	71	69
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	63	58	54	52
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45
9	67	55	49	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

LAMPS (number of lamps)

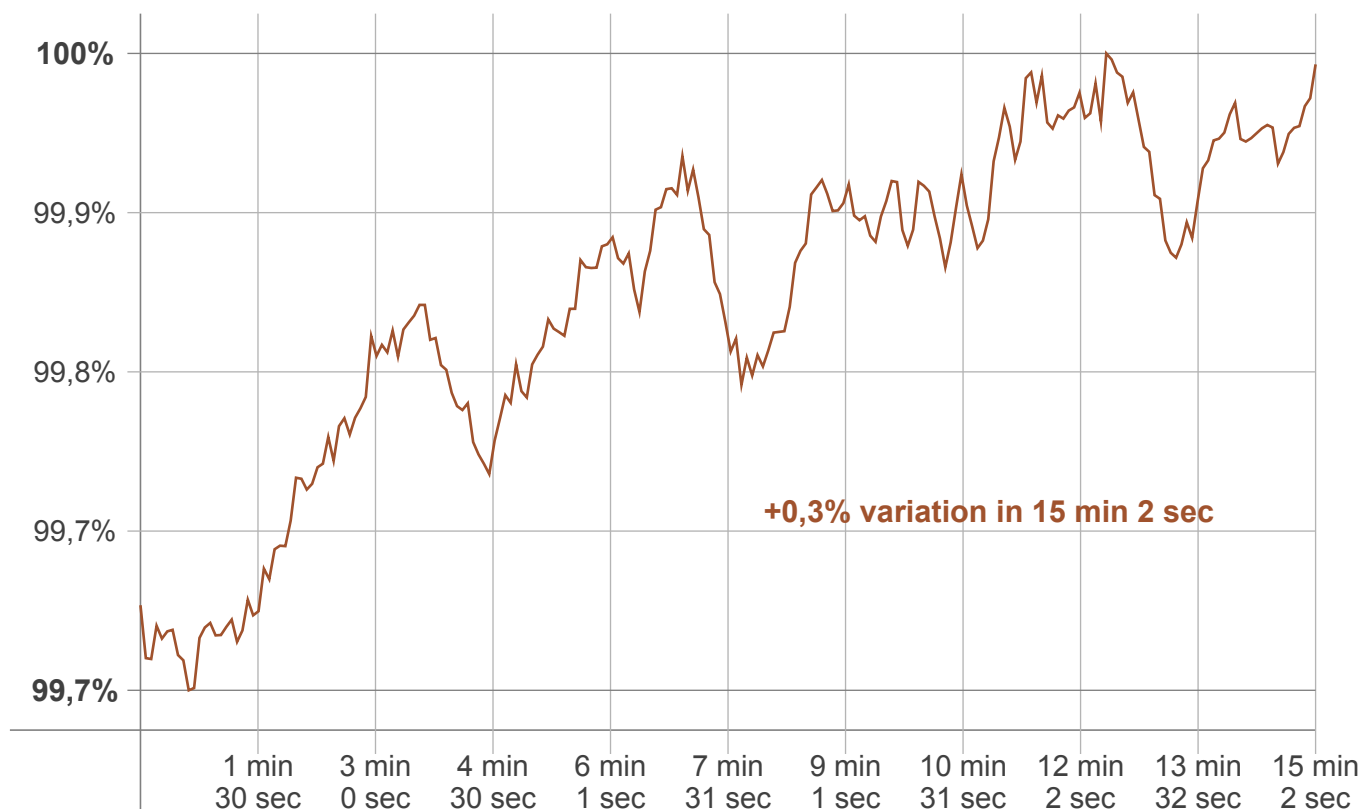
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
34,0 lm	71,5 lm	61,6 lm	56,2 lm	43,5 lm	30,3 lm	17,9 lm	15,3 lm	9,33 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,016 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	+0,3%

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
339 lm	+ lm	340 lm