

Light efficiency:

40 Lumen/Watt

Light quality:

CRI: 0,0

Color temperature:

0 K

Output: 305 lm

Peak: 116 cd

Power: 7,7 W

PF: 1,0



Product name:

Defiant-0508-XXB-CFF

Item number:

FLNP/L22A0508/XXB/CFF

Date and time:

06.07.2020 11:16:47

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:

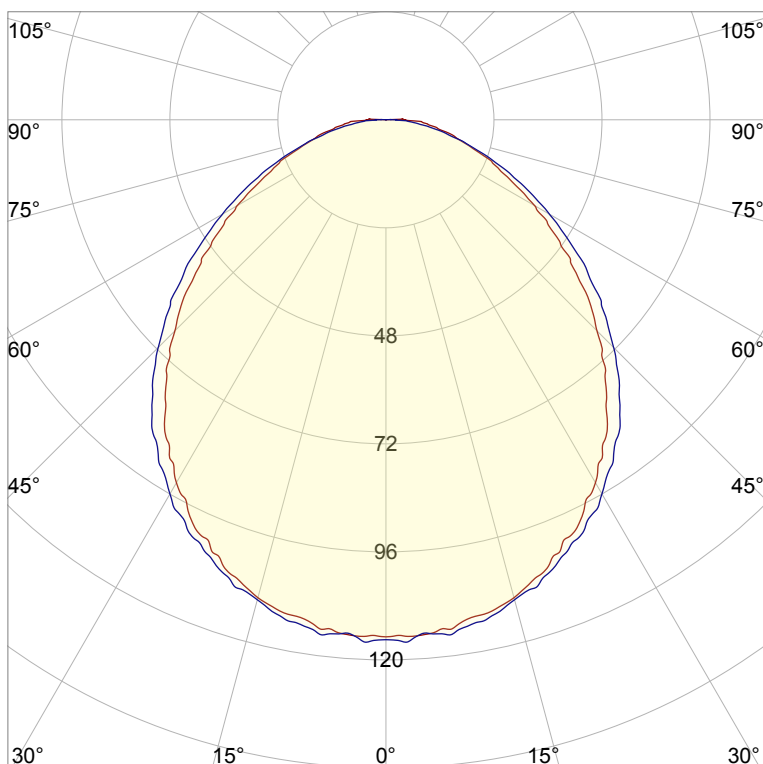
Peter Ulrich

Pruefort:

Lichtlabor

Gaustasse 13

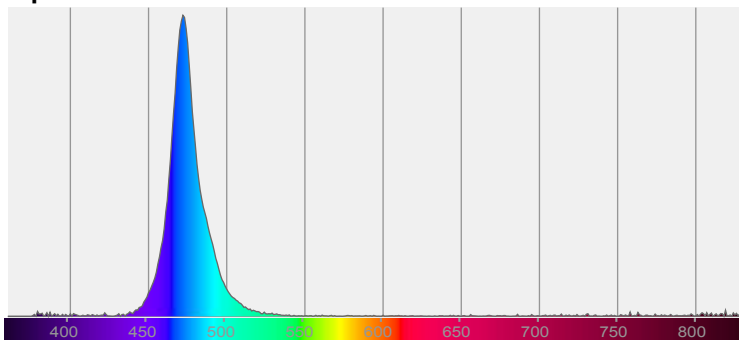
55411 Bingen am Rhein

**CIE 1931**

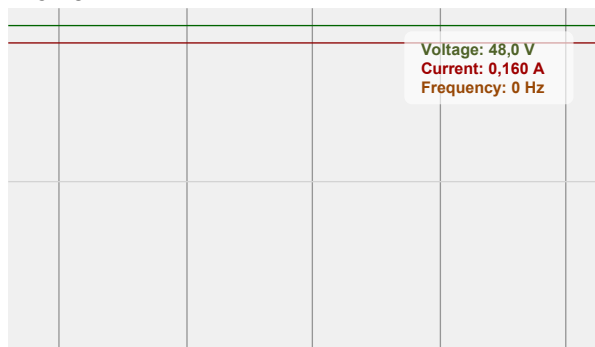
x: 0,119

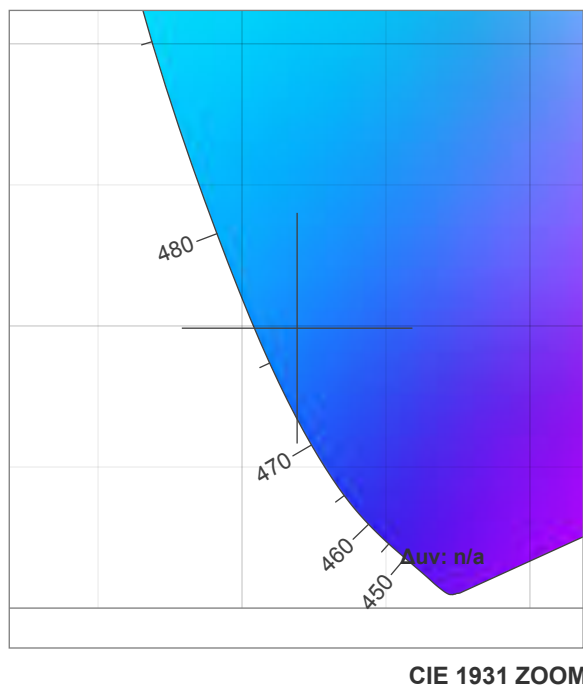
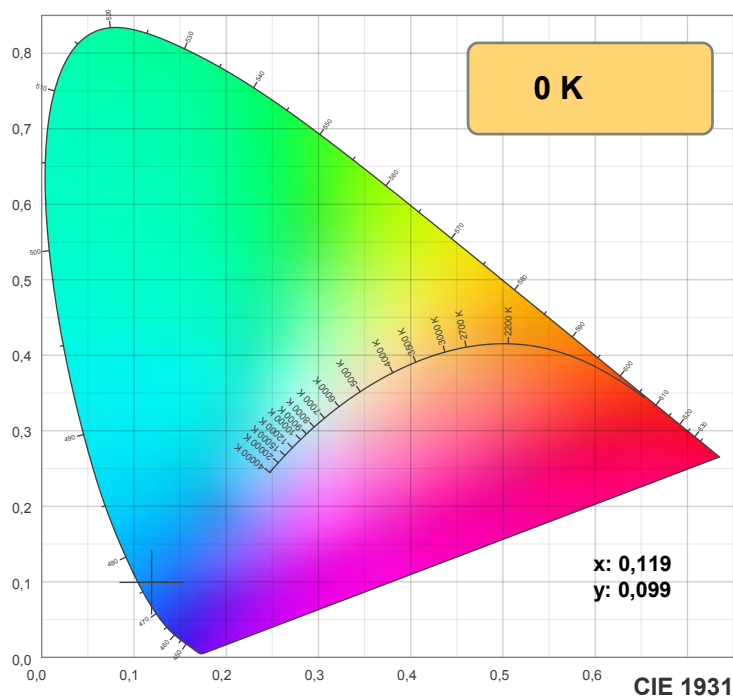
y: 0,099

Spectra



Power





TM30: 0,0

CRI: 0,0 (R1-R8)

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	

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	0,119	0,099	0,121	0,151	n/a

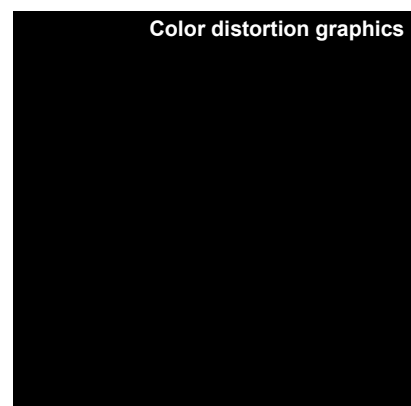
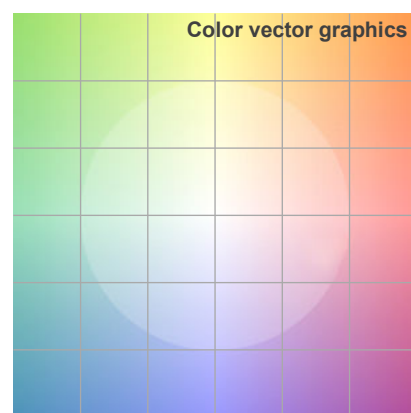
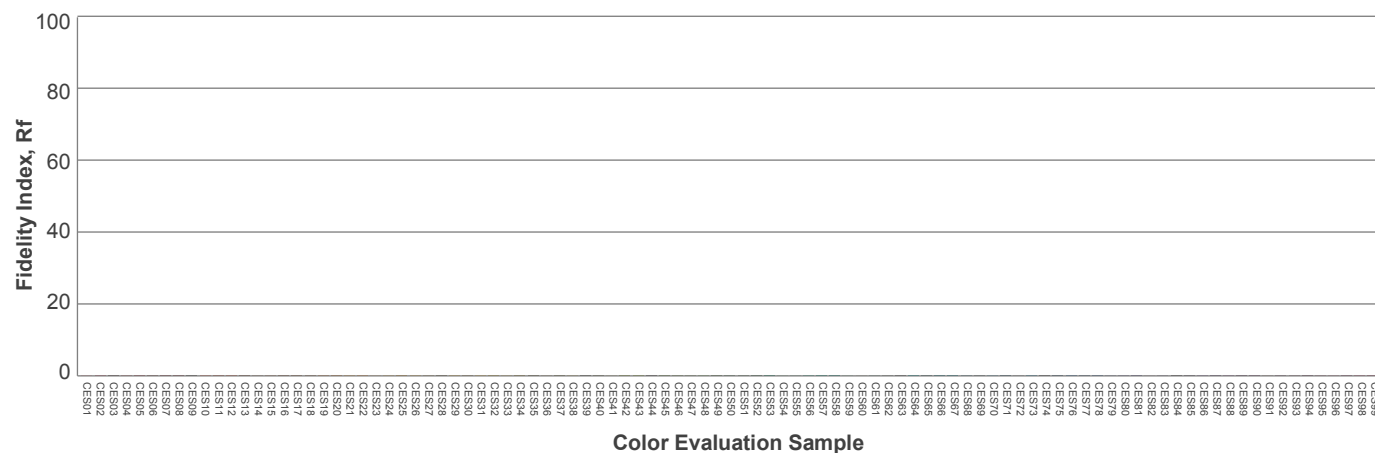
Rf 0,0

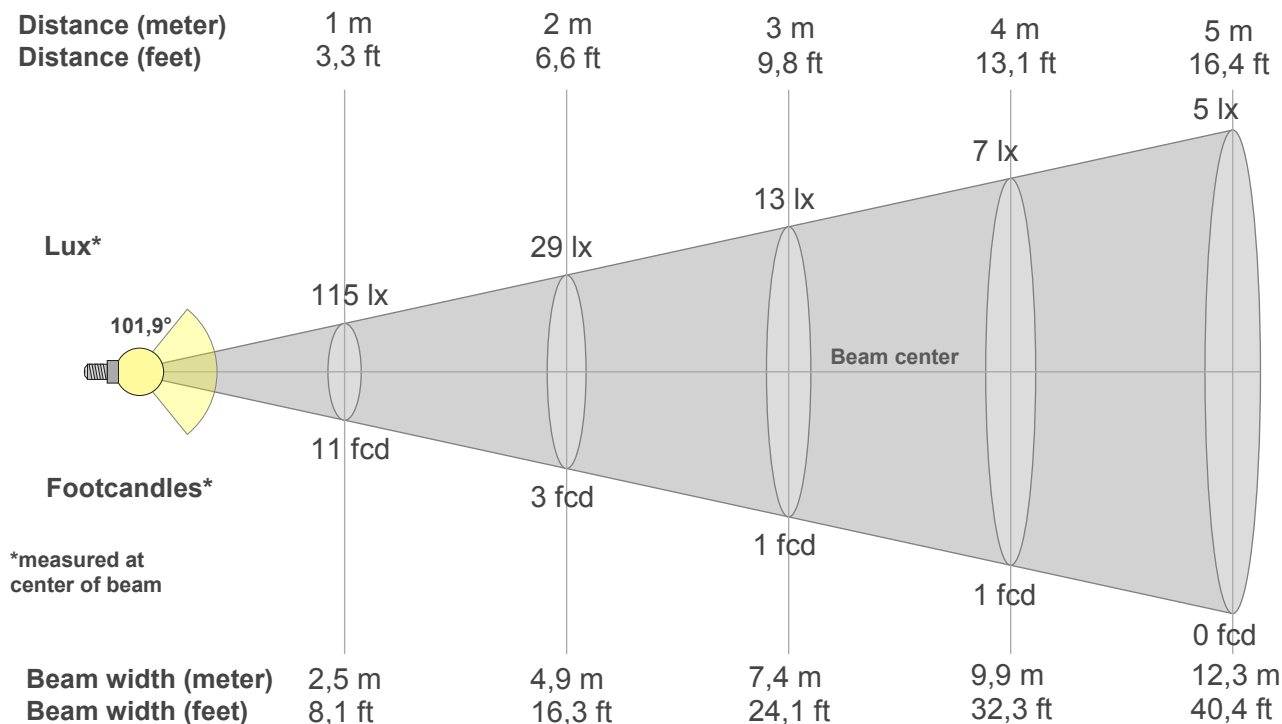
Fidelity index Rf

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
115lx	29lx	13lx	7lx	5lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx
10,7fcd	2,7fcd	1,2fcd	0,7fcd	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	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°
115	115	112	110	106	100	93	85	76	66	57	47	38	29	23	17	12	9	4	0
100%	100%	98%	96%	92%	87%	81%	74%	66%	58%	49%	41%	33%	26%	20%	14%	10%	8%	4%	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°
115	115	114	110	107	102	96	89	81	72	62	52	42	33	24	16	10	6	2	0
100%	100%	99%	96%	93%	89%	84%	77%	70%	62%	54%	45%	36%	28%	21%	14%	9%	5%	1%	0%

Intensities in 180° c-plane

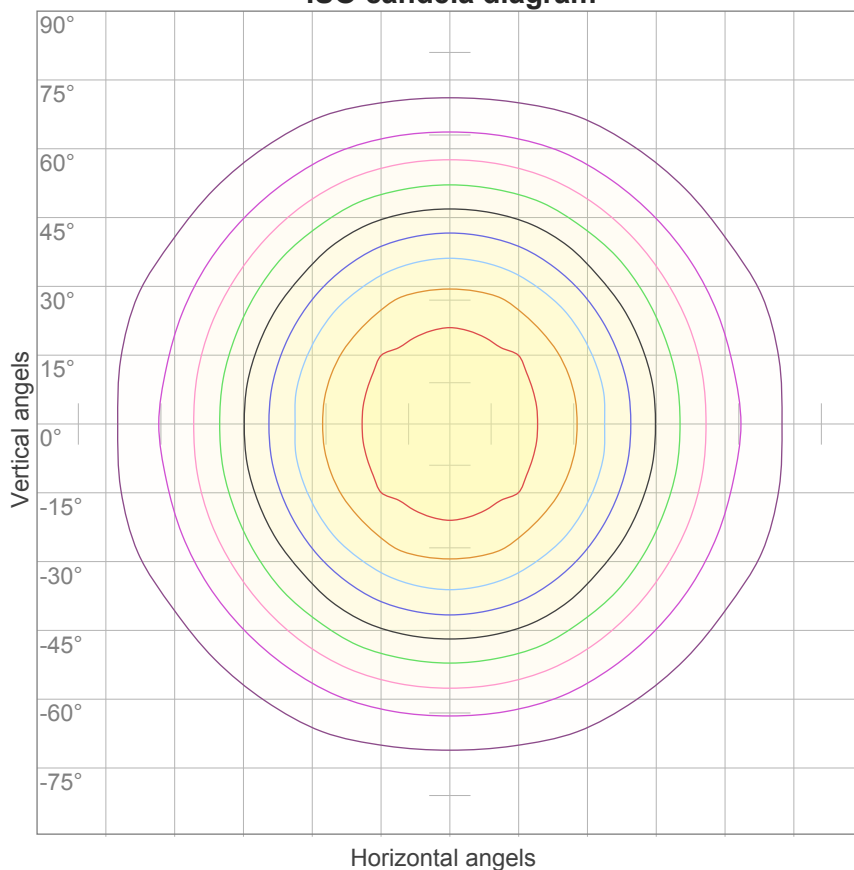
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
115	115	112	110	106	100	93	85	76	66	57	47	38	29	23	17	12	9	4	0
100%	100%	98%	96%	92%	87%	81%	74%	66%	58%	49%	41%	33%	26%	20%	14%	10%	8%	4%	0%

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°
115	115	114	110	107	102	96	89	81	72	62	52	42	33	24	16	10	6	2	0
100%	100%	99%	96%	93%	89%	84%	77%	70%	62%	54%	45%	36%	28%	21%	14%	9%	5%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
101,9°	161,1°	203,9°	78,7%	55,6%

ISO candela diagram



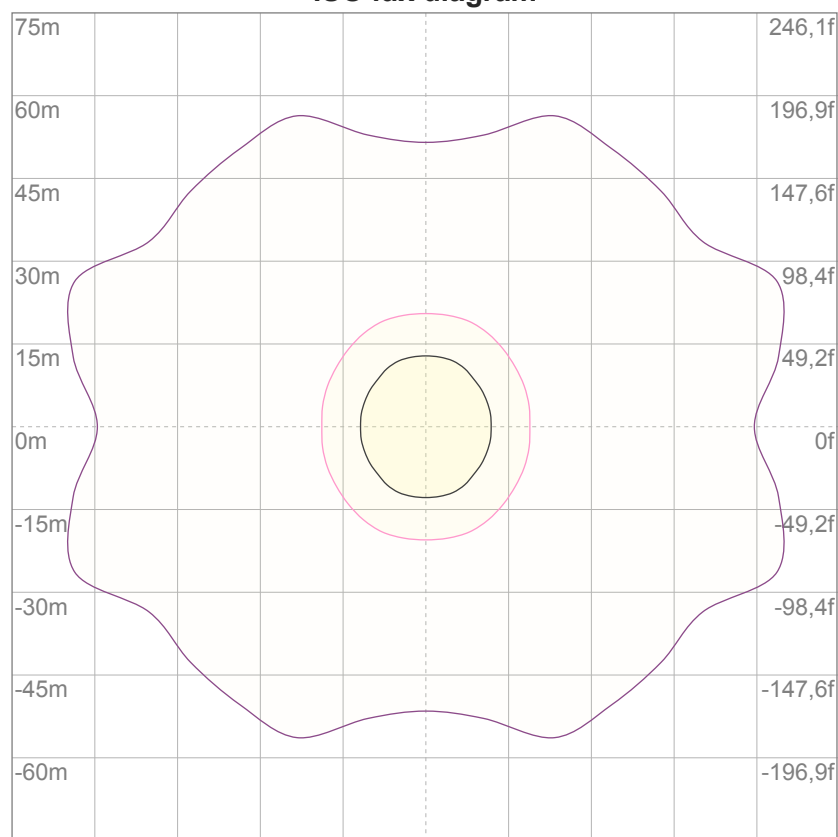
10%	11 cd
20%	23 cd
30%	34 cd
40%	46 cd
50%	57 cd
60%	69 cd
70%	80 cd
80%	92 cd
90%	103 cd

Conditions:

Number of c-planes: 16

Candela at center: 115 cd

ISO lux diagram



3%	34,5m lx
5%	57,5m lx
10%	0,115 lx
30%	0,345 lx
50%	0,575 lx

Conditions:

Number of c-planes: 16

Lux at center: 1,15 lx

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

Glare Evaluation According to UGR

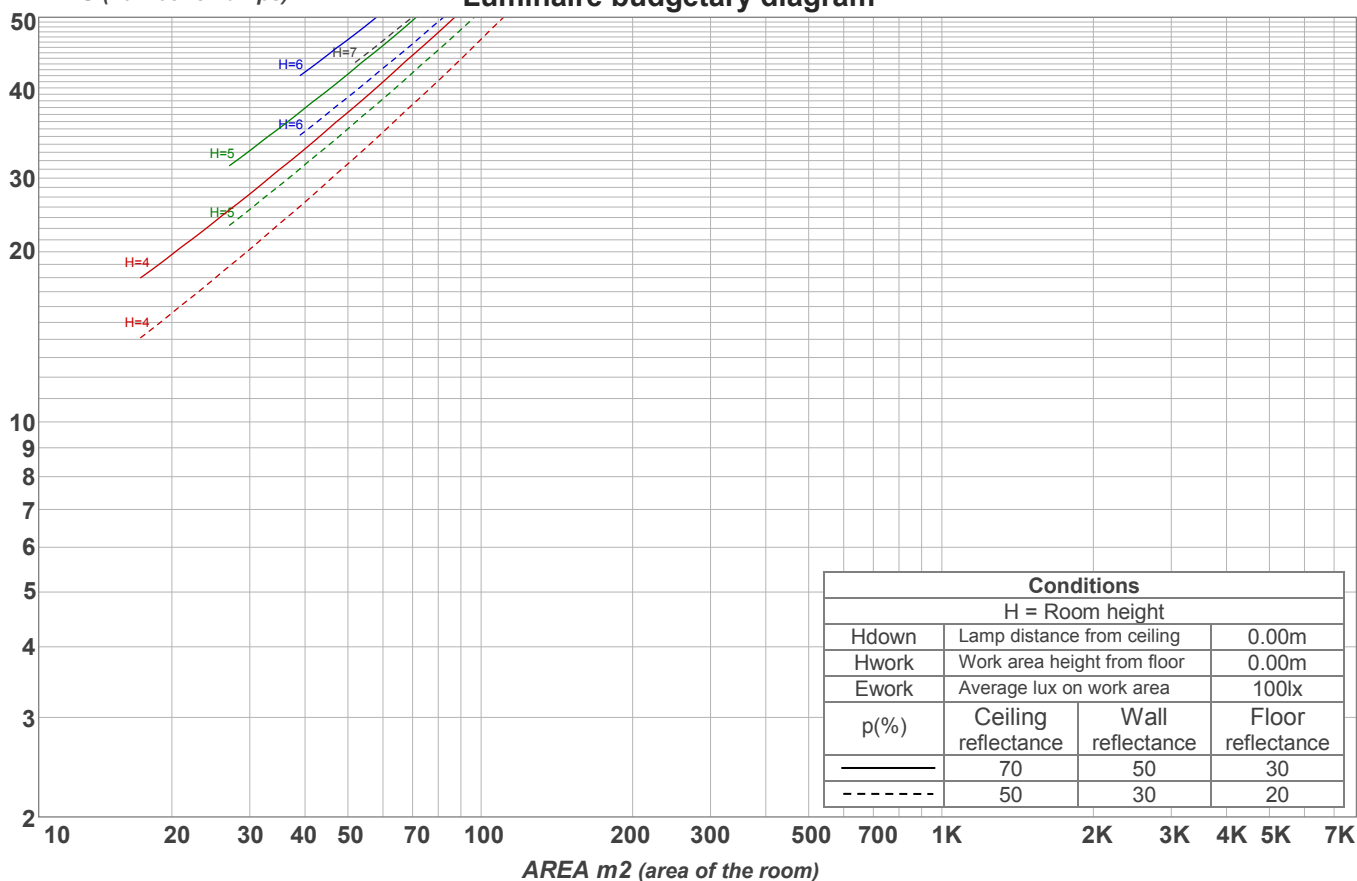
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	18,3	19,5	18,6	19,8	20,0	19,3	20,5	19,5	20,8	21,0
	3H	19,3	20,6	19,7	20,9	21,1	20,5	21,8	20,9	22,0	22,2
	4H	19,8	21,0	20,2	21,2	21,5	21,0	22,2	21,5	22,5	22,8
	6H	20,3	21,3	20,6	21,6	21,9	21,5	22,6	21,8	22,8	23,2
	8H	20,4	21,4	20,7	21,7	22,1	21,7	22,7	22,0	23,0	23,4
	12H	20,5	21,5	20,9	21,8	22,3	21,8	22,7	22,1	23,1	23,5
4H	2H	18,9	20,0	19,3	20,3	20,6	19,7	20,8	20,1	21,1	21,4
	3H	20,2	21,2	20,6	21,5	22,0	21,2	22,2	21,6	22,5	23,0
	4H	20,7	21,6	21,1	22,0	22,6	21,8	22,7	22,2	23,1	23,6
	6H	21,2	22,1	21,7	22,4	22,8	22,3	23,2	22,8	23,6	23,9
	8H	21,4	22,2	21,9	22,6	23,0	22,5	23,3	23,1	23,7	24,1
	12H	21,6	22,3	22,1	22,7	23,2	22,7	23,4	23,2	23,8	24,3
8H	4H	21,0	21,8	21,5	22,2	22,5	22,0	22,8	22,5	23,1	23,5
	6H	21,7	22,3	22,2	22,7	23,3	22,7	23,3	23,2	23,7	24,3
	8H	22,0	22,5	22,5	23,1	23,7	23,0	23,5	23,5	24,1	24,7
	12H	22,3	22,8	22,9	23,3	23,9	23,3	23,7	23,9	24,3	24,9
12H	4H	21,0	21,7	21,5	22,1	22,6	22,0	22,6	22,5	23,0	23,5
	6H	21,8	22,3	22,3	22,8	23,5	22,7	23,3	23,3	23,8	24,4
	8H	22,1	22,6	22,7	23,1	23,7	23,1	23,6	23,7	24,1	24,7
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,2					0,1 / -0,1				
S = 1.5H		0,2 / -0,4					0,2 / -0,3				
S = 2.0H		0,5 / -0,7					0,6 / -0,7				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 305 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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	108	103	99	95	105	101	97	94	96	93	90	92	89	87	88	86	84	82
2	99	91	84	78	96	89	82	77	85	79	75	81	77	73	78	74	71	69
3	90	80	72	66	88	78	71	65	75	69	63	72	66	62	69	65	61	58
4	83	71	62	56	80	70	62	55	67	60	54	64	58	53	62	57	52	50
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	50	46	44
6	71	58	49	42	69	56	48	42	54	47	42	53	46	41	51	45	41	38
7	66	52	44	38	64	51	43	37	50	42	37	48	41	37	46	41	36	34
8	61	48	39	34	59	47	39	34	45	38	33	44	38	33	43	37	32	31
9	57	44	36	30	56	43	36	30	42	35	30	41	34	30	40	34	29	28
10	54	41	33	28	52	40	33	27	39	32	27	38	31	27	37	31	27	25

LAMPS (number of lamps)

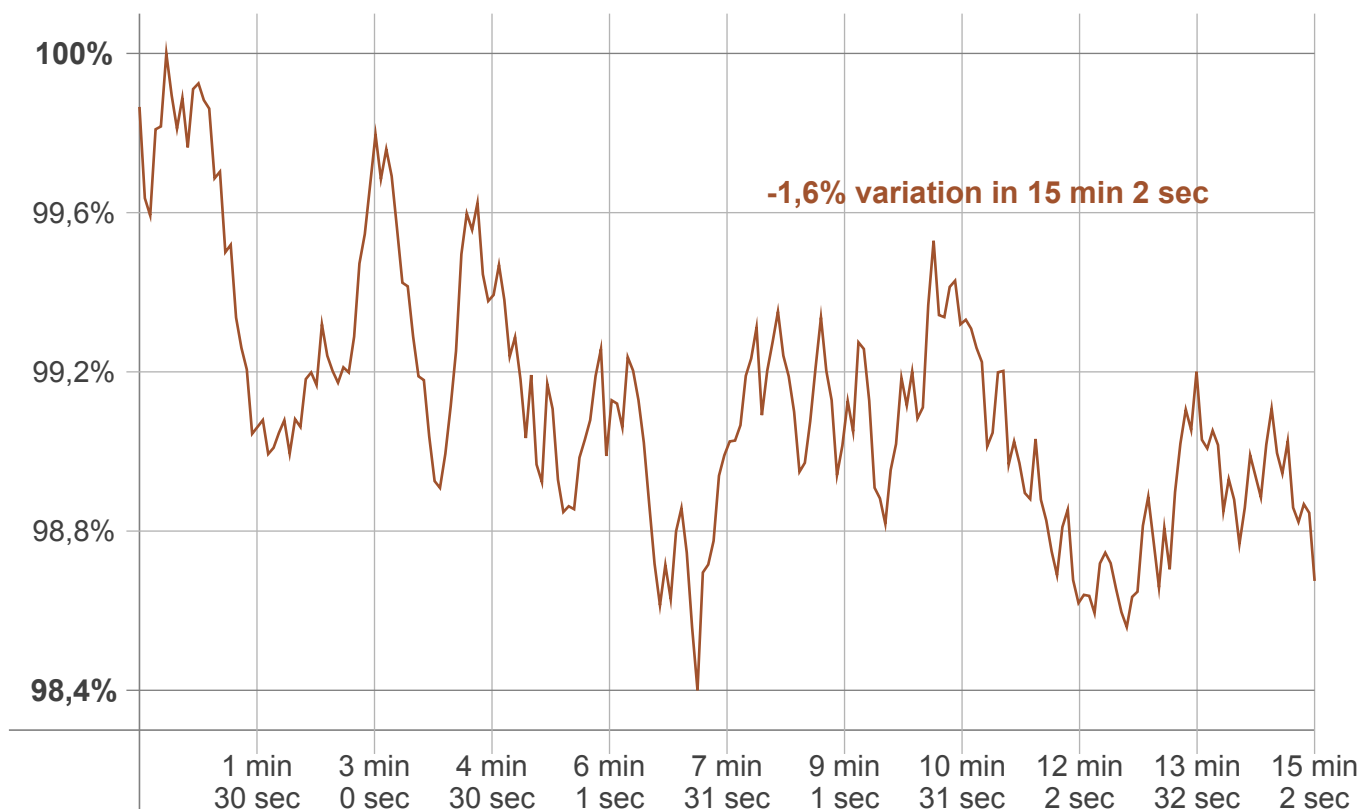
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
10,9 lm	31,0 lm	46,3 lm	54,3 lm	53,4 lm	44,5 lm	31,4 lm	18,5 lm	8,25 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
2,59 lm	0,952 lm	0,839 lm	0,758 lm	0,655 lm	0,531 lm	0,391 lm	0,240 lm	0,081 lm

Warmup curve



Warmup result

Warmup time:	15 min 2 sec
Warmup variation	-1,6%

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
306 lm	-1 lm	305 lm