

Light efficiency:

134 Lumen/Watt

Light quality:

CRI: 0,0

Color temperature:

0 K

Output: 1032 lm

Peak: 426 cd

Power: 7,7 W

PF: 1,0



Product name:

Defiant-0508-XXG-L9T

Item number:

FLNP/L22A0508/XXG/L9T

Date and time:

06.07.2020 15:05:37

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:

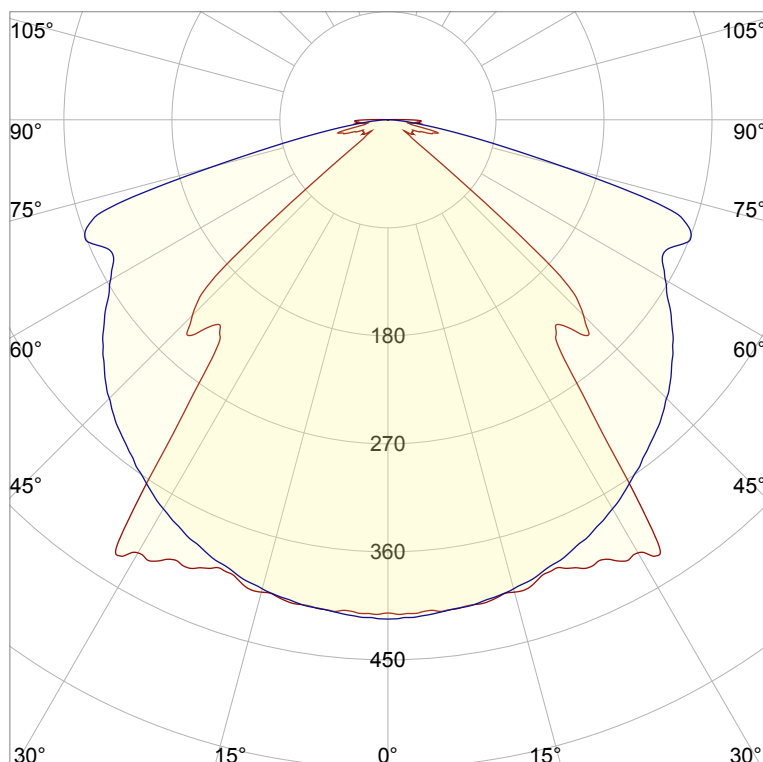
Peter Ulrich

Pruefort:

Lichtlabor

Gaustrasse 13

55411 Bingen am Rhein

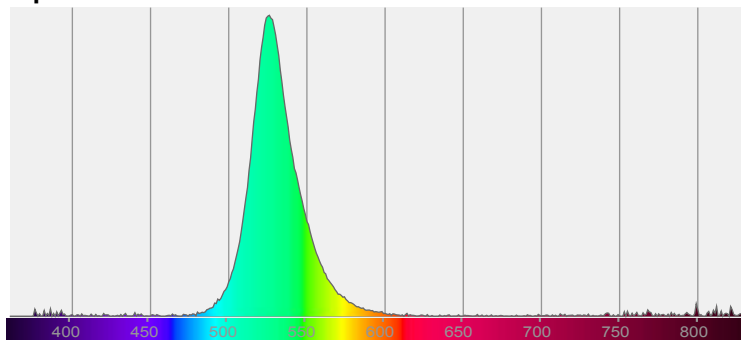


CIE 1931

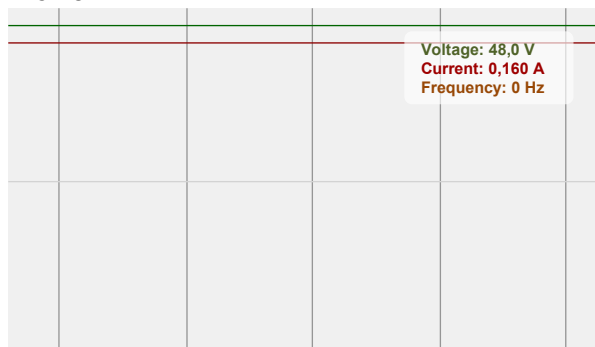
x: 0,199

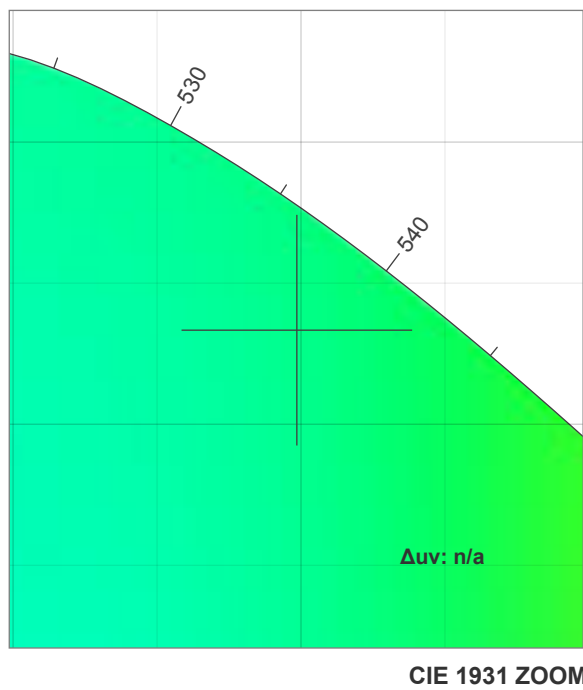
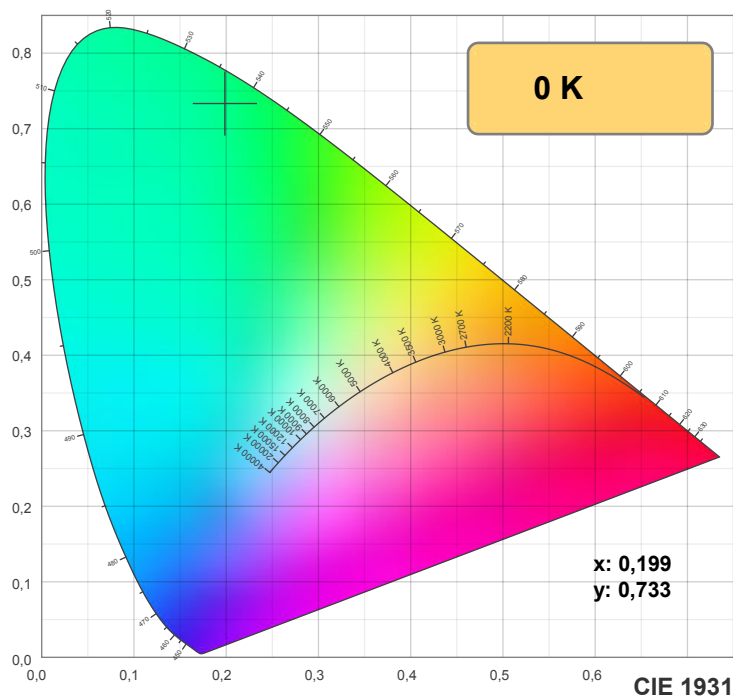
y: 0,733

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
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
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
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	0,199	0,733	0,070	0,386	n/a

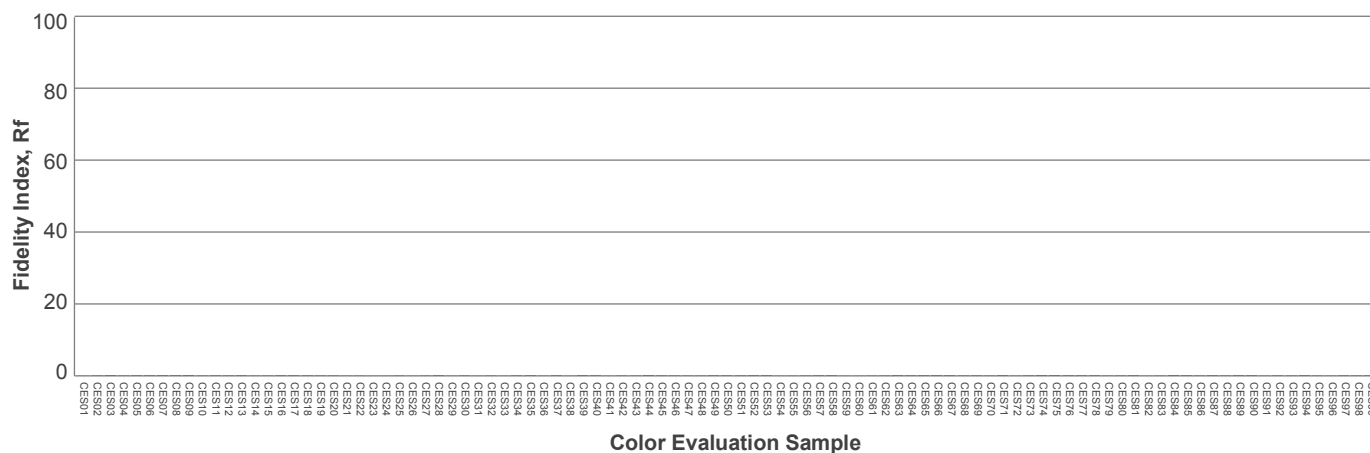
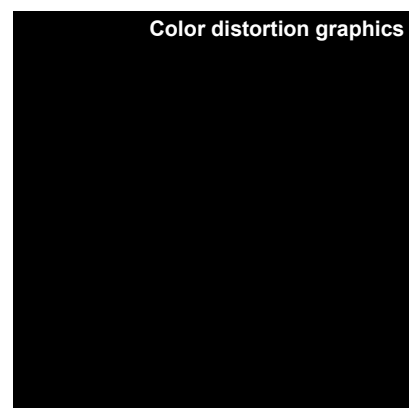
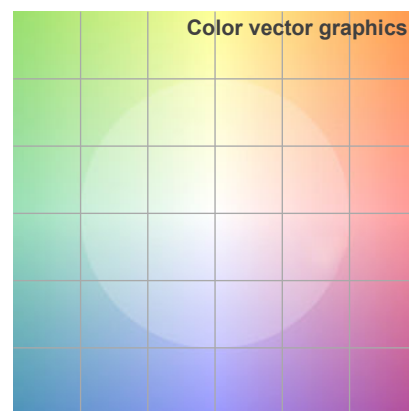
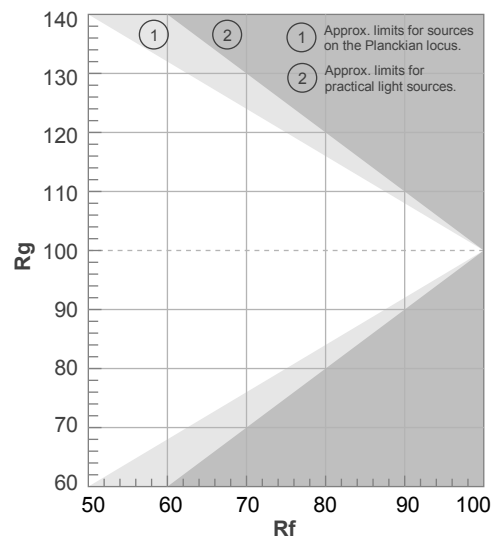
Rf 0,0

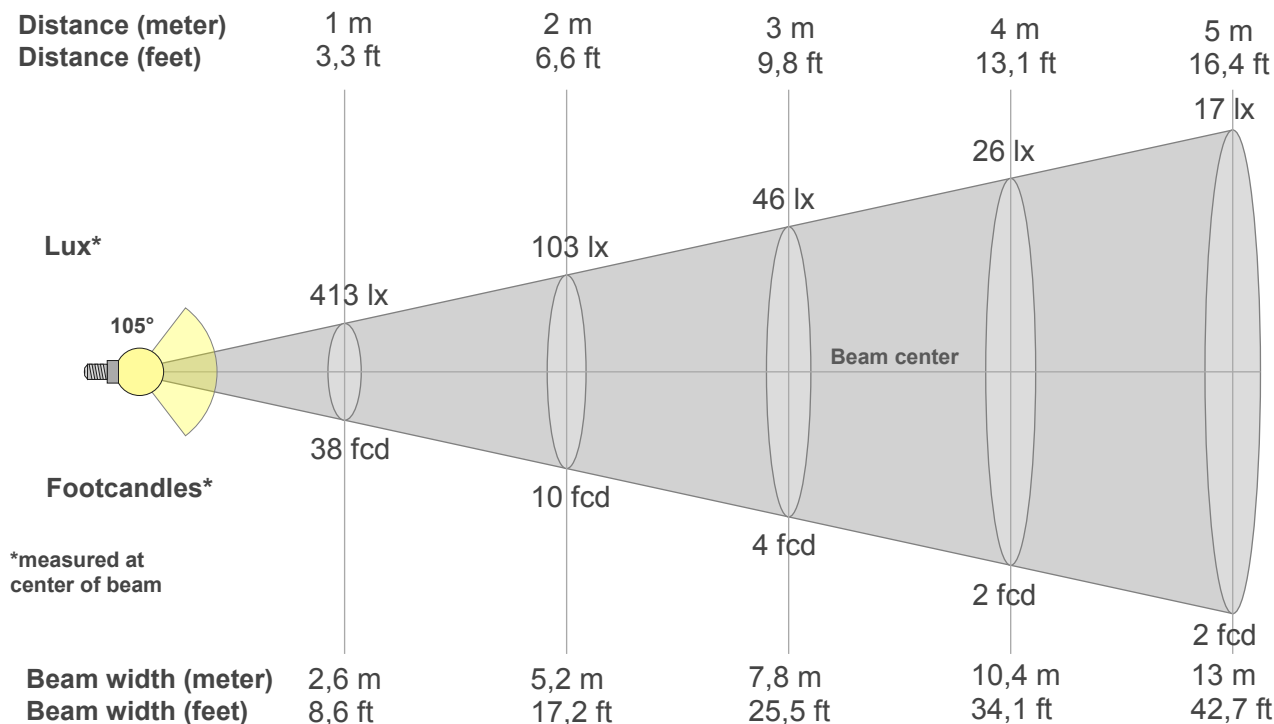
Fidelity index Rf

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
413lx	103lx	46lx	26lx	17lx	11lx	8lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx
38,4fcd	9,6fcd	4,3fcd	2,4fcd	1,5fcd	1,1fcd	0,8fcd	0,6fcd	0,5fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,2fcd	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°
413	410	410	407	400	408	417	294	223	230	80	18	23	23	29	42	18	24	17	0
100%	99%	99%	99%	97%	99%	101%	71%	54%	56%	19%	4%	6%	6%	7%	10%	4%	6%	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°
413	414	410	405	396	386	374	359	344	328	309	288	267	256	268	152	48	12	1	0
100%	100%	99%	98%	96%	94%	91%	87%	83%	79%	75%	70%	65%	62%	65%	37%	12%	3%	0%	0%

Intensities in 180° c-plane

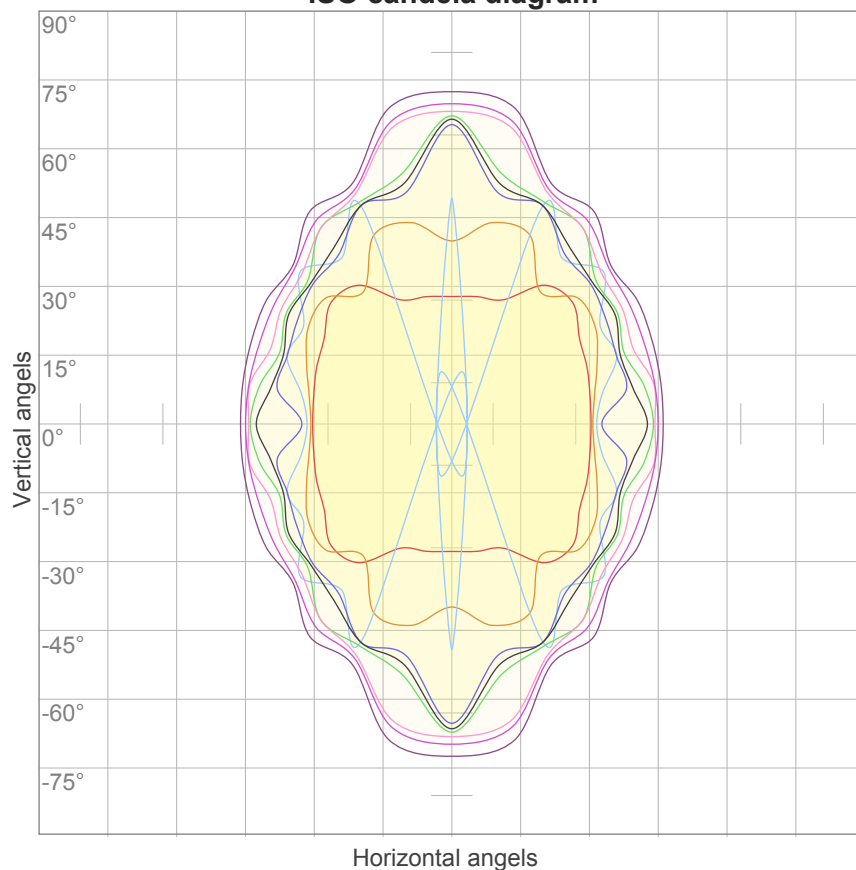
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
413	410	410	407	400	408	417	294	223	230	80	18	23	23	29	42	18	24	17	0
100%	99%	99%	99%	97%	99%	101%	71%	54%	56%	19%	4%	6%	6%	7%	10%	4%	6%	4%	0%

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°
413	414	410	405	396	386	374	359	344	328	309	288	267	256	268	152	48	12	1	0
100%	100%	99%	98%	96%	94%	91%	87%	83%	79%	75%	70%	65%	62%	65%	37%	12%	3%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
105°	124,1°	168,5°	86,8%	66,2%

ISO candela diagram



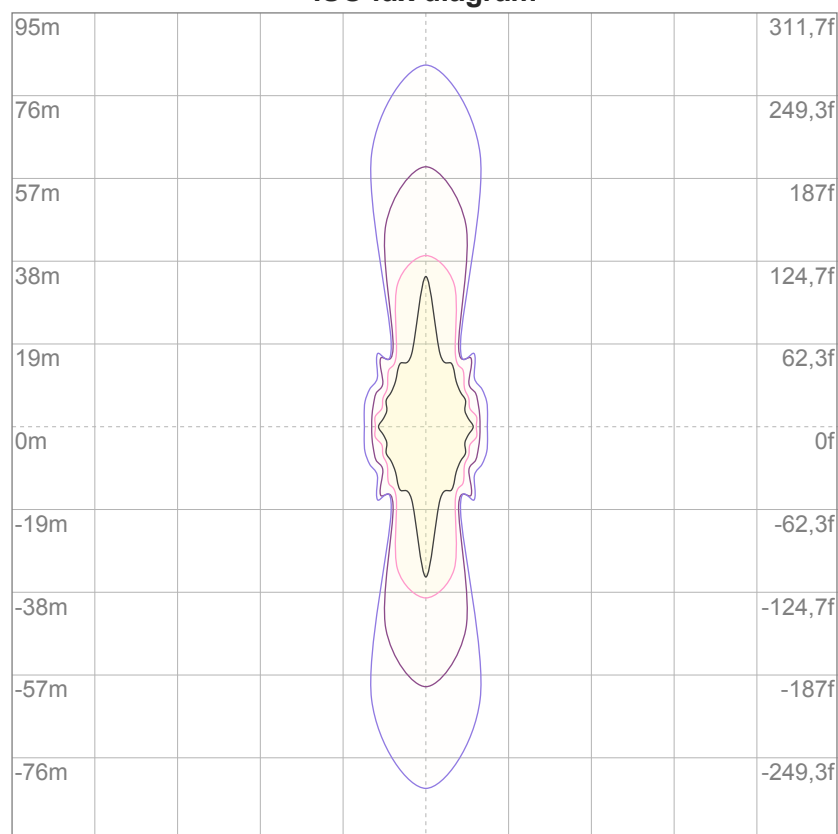
10%	41 cd
20%	83 cd
30%	124 cd
40%	165 cd
50%	207 cd
60%	248 cd
70%	289 cd
80%	331 cd
90%	372 cd

Conditions:

Number of c-planes: 16

Candela at center: 413 cd

ISO lux diagram



3%	0,124 lx
5%	0,207 lx
10%	0,413 lx
30%	1,24 lx
50%	2,07 lx

Conditions:

Number of c-planes: 16

Lux at center: 4,13 lx

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

Glare Evaluation According to UGR

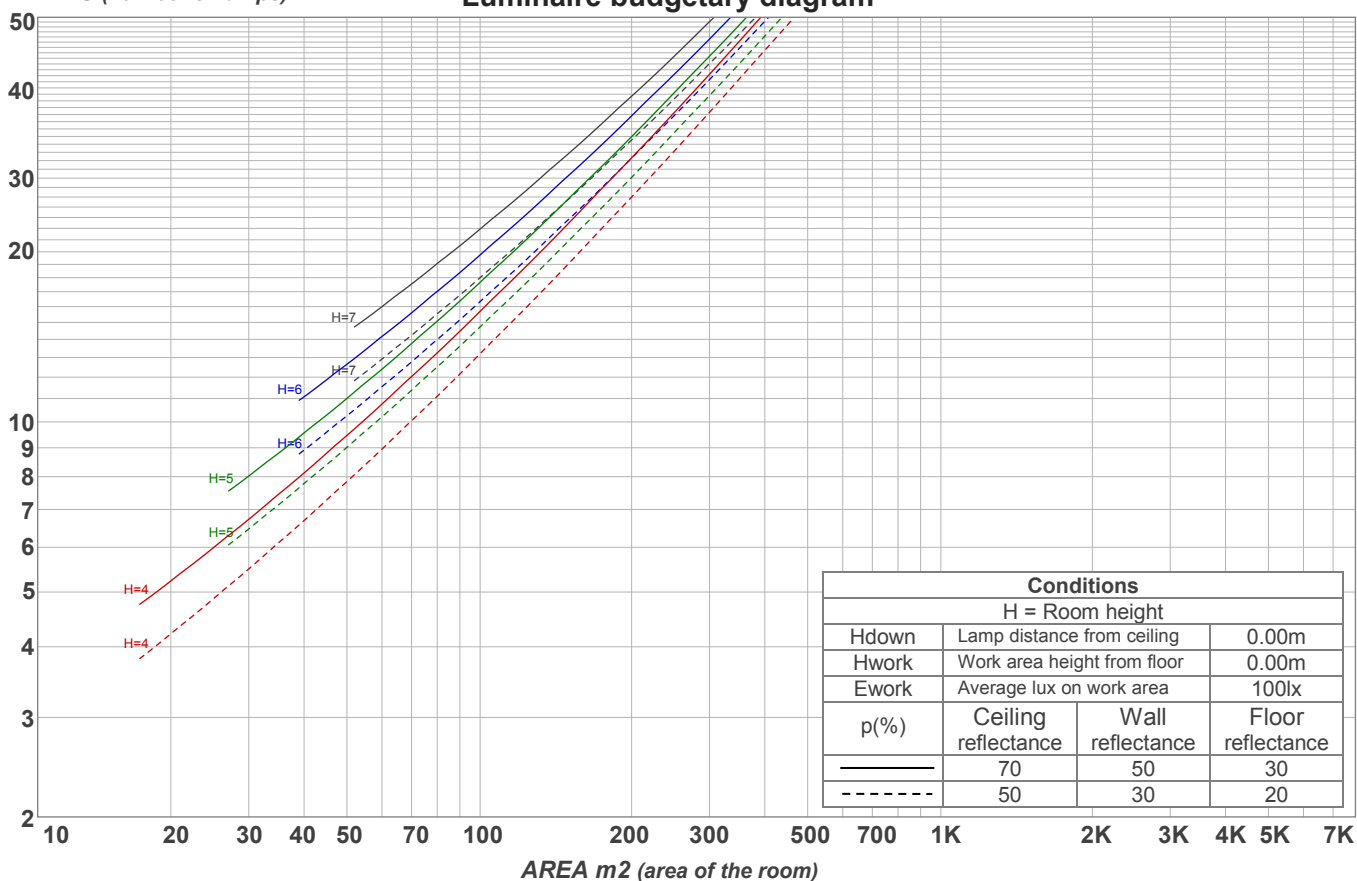
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	18,9	19,9	19,1	20,2	20,4	25,4	26,5	25,6	26,7	27,0
	3H	18,9	20,0	19,3	20,2	20,4	27,4	28,5	27,8	28,7	28,9
	4H	19,3	20,4	19,7	20,7	20,9	28,4	29,5	28,8	29,7	30,0
	6H	19,7	20,7	20,0	20,9	21,3	28,7	29,6	29,0	29,9	30,3
	8H	19,9	20,8	20,2	21,1	21,5	28,7	29,6	29,1	29,9	30,3
	12H	20,1	21,0	20,5	21,3	21,8	28,7	29,6	29,1	29,9	30,4
4H	2H	19,0	20,0	19,4	20,3	20,5	25,1	26,1	25,5	26,4	26,6
	3H	19,2	20,0	19,5	20,4	20,8	27,2	28,1	27,6	28,4	28,8
	4H	19,7	20,5	20,2	20,9	21,5	28,2	29,0	28,6	29,4	29,9
	6H	20,3	21,1	20,8	21,4	21,8	28,4	29,2	28,9	29,6	29,9
	8H	20,6	21,3	21,1	21,7	22,0	28,5	29,2	29,0	29,5	29,9
	12H	21,0	21,6	21,5	22,0	22,5	28,5	29,1	29,0	29,5	29,9
8H	4H	19,7	20,5	20,2	20,8	21,2	28,0	28,8	28,6	29,1	29,5
	6H	20,6	21,1	21,1	21,6	22,1	28,4	28,9	28,9	29,3	29,9
	8H	21,2	21,6	21,7	22,1	22,8	28,4	28,9	28,9	29,4	30,0
	12H	21,9	22,3	22,5	22,8	23,4	28,4	28,8	29,0	29,3	29,9
12H	4H	19,7	20,3	20,2	20,7	21,2	28,0	28,6	28,5	29,0	29,5
	6H	20,7	21,1	21,2	21,6	22,3	28,4	28,8	28,9	29,3	30,0
	8H	21,3	21,7	21,9	22,2	22,8	28,4	28,8	29,0	29,3	29,9
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,9 / -1,1					0,6 / -0,8				
S = 1.5H		1,6 / -1,2					1,9 / -3,5				
S = 2.0H		2,4 / -1,4					3,0 / -7,0				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1032 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	104	104	104	100	100	100	97
1	110	105	102	98	107	103	99	96	98	95	93	94	92	90	90	88	87	84
2	101	94	88	83	98	92	86	82	88	83	79	84	80	77	81	78	75	73
3	93	84	77	71	91	82	75	70	79	73	69	76	71	67	73	69	66	63
4	86	75	67	61	84	74	67	61	71	65	60	69	63	59	66	62	58	56
5	80	68	60	54	77	67	59	53	64	58	53	62	56	52	60	55	51	49
6	74	62	53	48	72	61	53	47	59	52	47	57	51	46	55	50	45	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	50	45	41	39
8	64	51	43	38	62	51	43	38	49	42	37	48	42	37	46	41	37	35
9	60	47	40	34	58	47	39	34	45	39	34	44	38	34	43	37	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29

LAMPS (number of lamps)

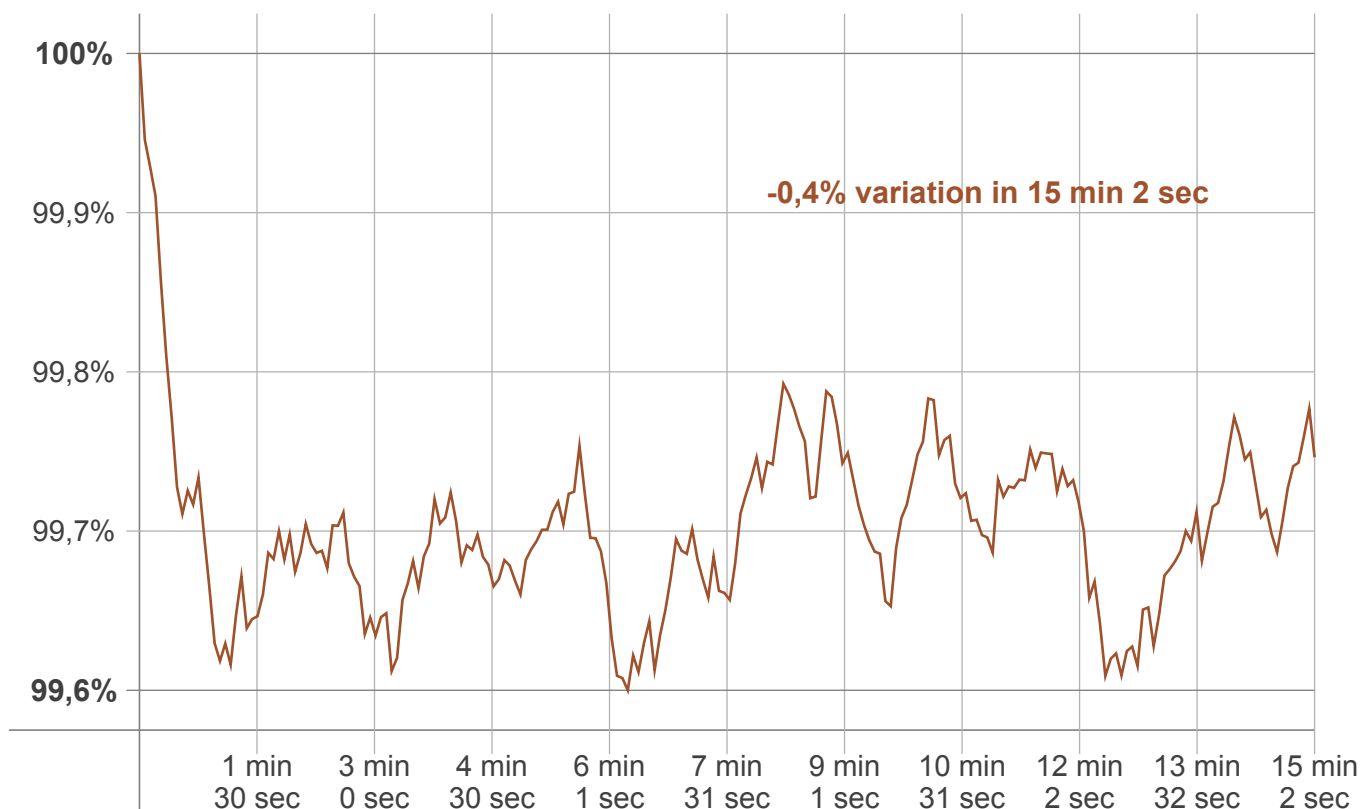
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
39,2 lm	114 lm	182 lm	231 lm	216 lm	113 lm	52,2 lm	38,1 lm	18,1 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
7,27 lm	4,32 lm	3,84 lm	3,47 lm	3,00 lm	2,43 lm	1,79 lm	1,10 lm	0,369 lm

Warmup curve



Warmup result

Warmup time:	15 min 2 sec
Warmup variation	-0,4%

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
1034 lm	-2 lm	1032 lm