

Light efficiency:

128 Lumen/Watt

Light quality:

CRI: 0,0

Color temperature:

0 K

Output: 984 lm

Peak: 398 cd

Power: 7,7 W

PF: 1,0



Product name:

Defiant-0508-XXG-L9F

Item number:

FLNP/L22A0508/XXG/L9F

Date and time:

07.07.2020 09:57:52

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:

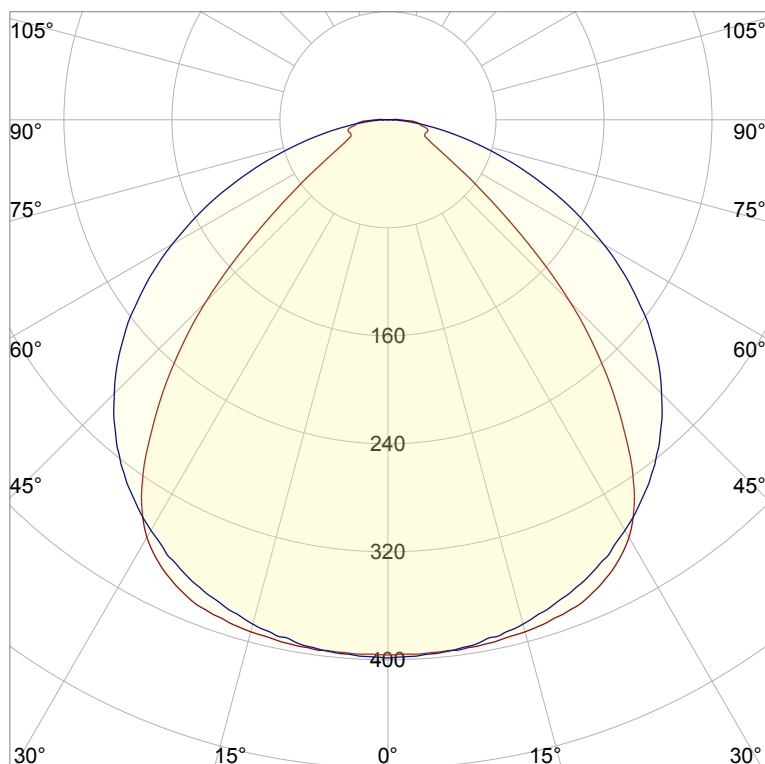
Peter Ulrich

Pruefort:

Lichtlabor

Gaustrasse 13

55411 Bingen am Rhein

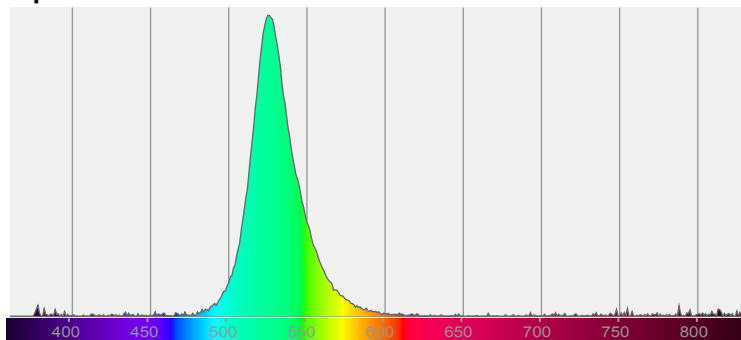


CIE 1931

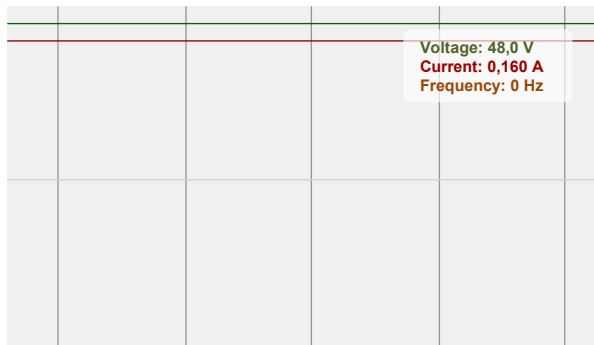
x: 0,199

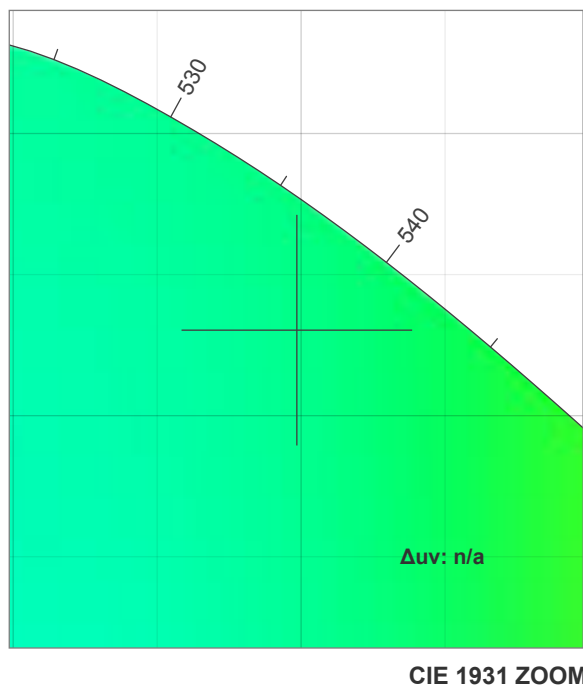
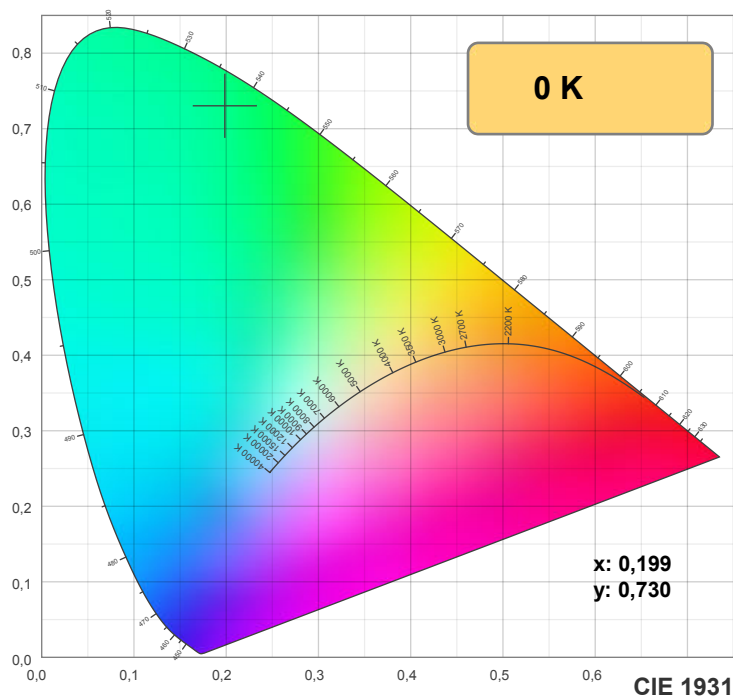
y: 0,730

Spectra



Power





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	0,199	0,730	0,070	0,385	n/a

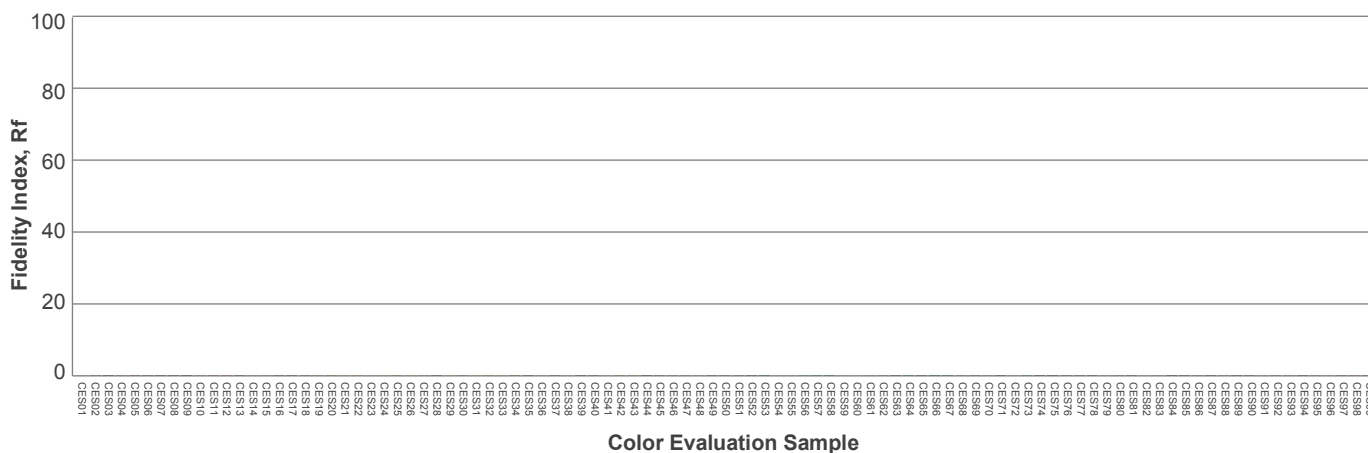
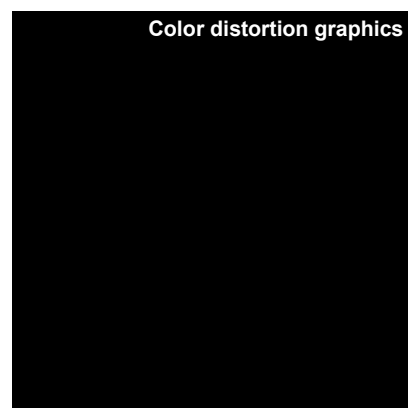
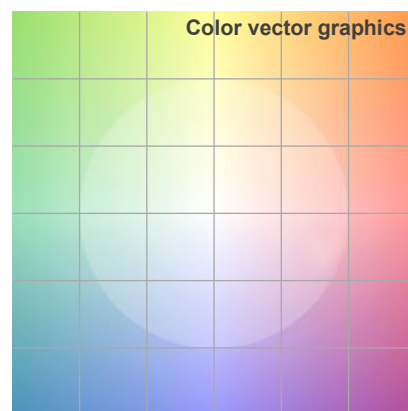
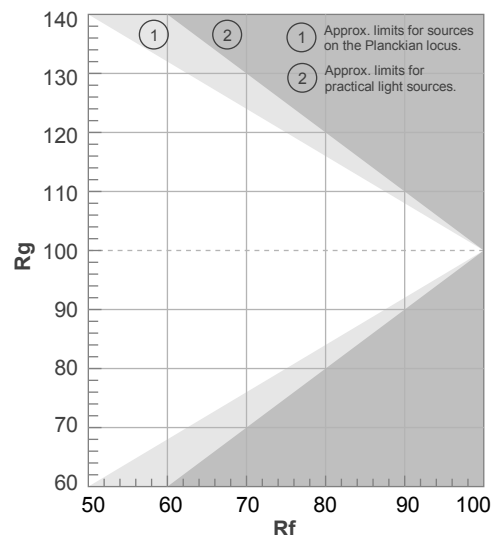
Rf 0,0

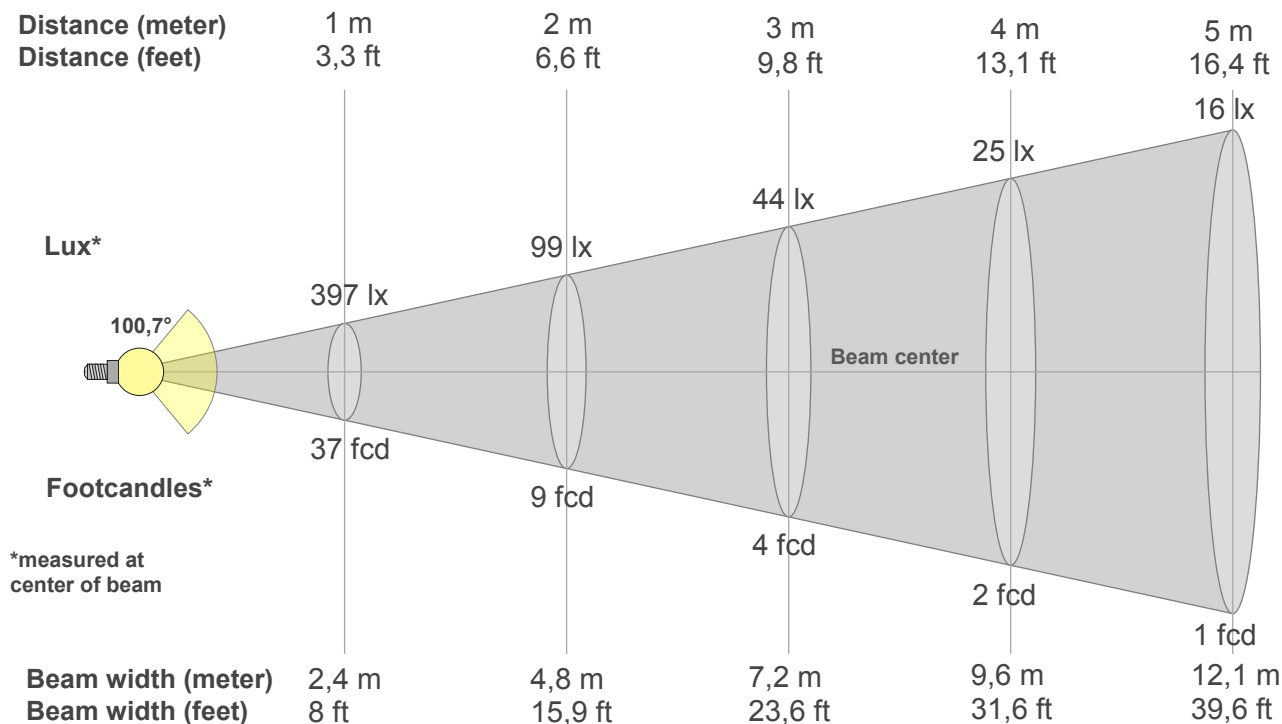
Fidelity index Rf

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
397lx	99lx	44lx	25lx	16lx	11lx	8lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx
36,9fcd	9,2fcd	4,1fcd	2,3fcd	1,5fcd	1fcd	0,8fcd	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

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°
397	396	395	393	388	377	357	315	256	191	119	69	42	31	29	31	25	21	9	0
100%	100%	99%	99%	98%	95%	90%	79%	65%	48%	30%	17%	11%	8%	7%	8%	6%	5%	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°
397	397	393	387	377	366	351	334	313	287	257	222	184	145	104	67	36	14	2	2
100%	100%	99%	97%	95%	92%	88%	84%	79%	72%	65%	56%	46%	36%	26%	17%	9%	4%	0%	0%

Intensities in 180° c-plane

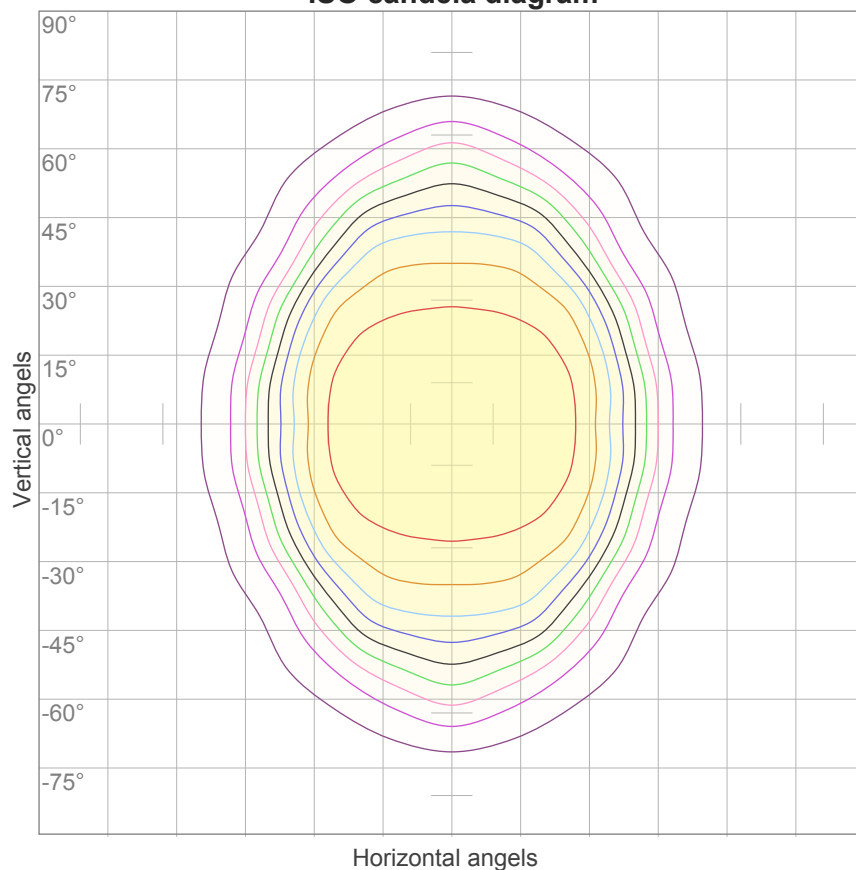
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
397	396	395	393	388	377	357	315	256	191	119	69	42	31	29	31	25	21	9	0
100%	100%	99%	99%	98%	95%	90%	79%	65%	48%	30%	17%	11%	8%	7%	8%	6%	5%	2%	0%

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°
397	397	393	387	377	366	351	334	313	287	257	222	184	145	104	67	36	14	2	2
100%	100%	99%	97%	95%	92%	88%	84%	79%	72%	65%	56%	46%	36%	26%	17%	9%	4%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
100,7°	136,2°	176,9°	85,4%	63,9%

ISO candela diagram



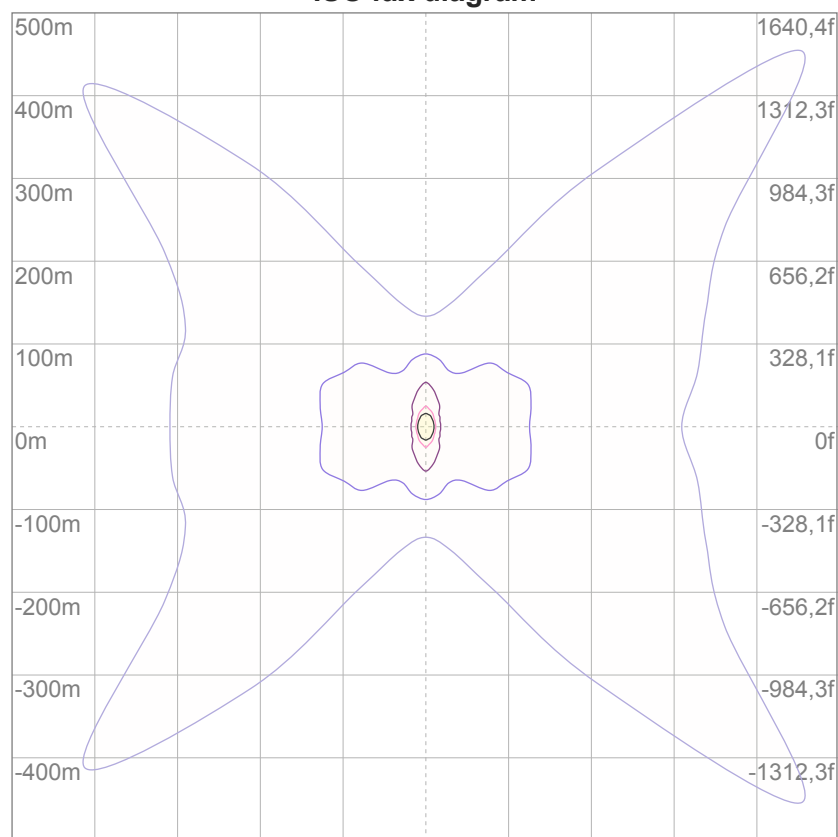
10%	40 cd
20%	79 cd
30%	119 cd
40%	159 cd
50%	199 cd
60%	238 cd
70%	278 cd
80%	318 cd
90%	358 cd

Conditions:

Number of c-planes: 16

Candela at center: 397 cd

ISO lux diagram



3%	0,119 lx
5%	0,199 lx
10%	0,397 lx
30%	1,19 lx
50%	1,99 lx

Conditions:

Number of c-planes: 16

Lux at center: 3,97 lx

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

Glare Evaluation According to UGR

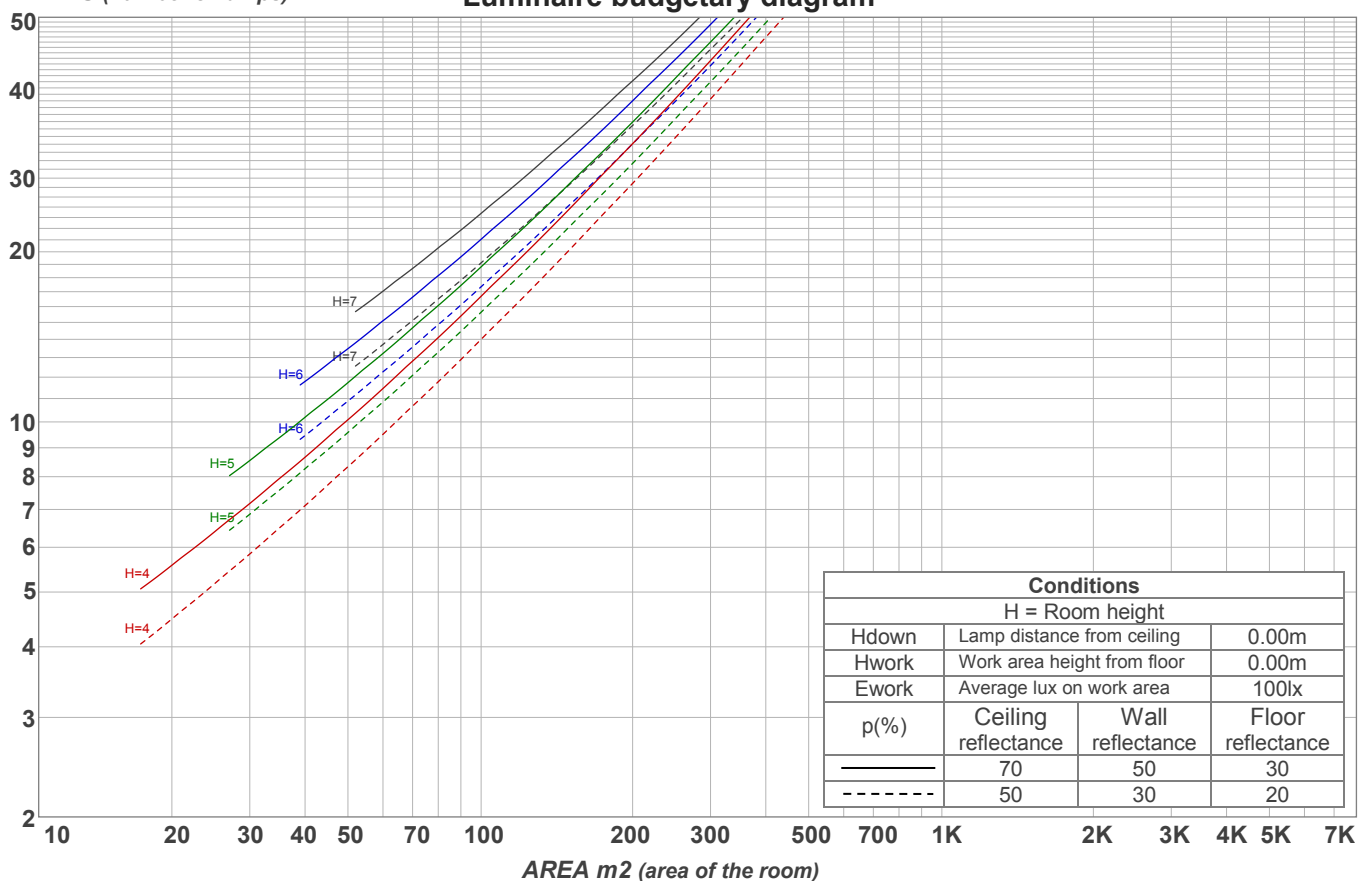
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	19,4	20,5	19,6	20,8	21,0	24,3	25,4	24,5	25,7	25,9
	3H	19,5	20,6	19,9	20,9	21,1	25,3	26,5	25,7	26,7	26,9
	4H	19,8	20,8	20,2	21,1	21,4	25,8	26,9	26,2	27,1	27,4
	6H	20,2	21,1	20,5	21,4	21,8	26,2	27,1	26,5	27,4	27,8
	8H	20,3	21,3	20,7	21,6	22,0	26,2	27,2	26,6	27,5	27,9
	12H	20,5	21,4	20,9	21,7	22,2	26,3	27,2	26,6	27,5	27,9
4H	2H	19,8	20,9	20,2	21,1	21,4	24,1	25,2	24,5	25,5	25,7
	3H	20,1	21,0	20,5	21,3	21,8	25,4	26,3	25,8	26,6	27,1
	4H	20,4	21,2	20,8	21,6	22,2	25,8	26,7	26,3	27,1	27,6
	6H	20,9	21,7	21,4	22,0	22,4	26,2	27,0	26,7	27,4	27,7
	8H	21,1	21,9	21,7	22,2	22,6	26,4	27,1	26,9	27,5	27,8
	12H	21,4	22,0	21,9	22,4	22,9	26,5	27,1	26,9	27,5	27,9
8H	4H	20,6	21,3	21,1	21,7	22,1	25,8	26,5	26,3	26,9	27,2
	6H	21,3	21,8	21,8	22,3	22,8	26,2	26,8	26,7	27,2	27,8
	8H	21,7	22,2	22,2	22,7	23,3	26,5	26,9	27,0	27,4	28,1
	12H	22,1	22,5	22,7	23,0	23,6	26,6	27,0	27,2	27,5	28,1
12H	4H	20,6	21,2	21,1	21,6	22,1	25,7	26,3	26,2	26,8	27,2
	6H	21,4	21,9	21,9	22,4	23,0	26,3	26,7	26,8	27,2	27,9
	8H	21,8	22,2	22,4	22,7	23,3	26,4	26,8	27,0	27,3	28,0
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,5 / -0,8					0,1 / -0,2				
S = 1.5H		1,2 / -1,4					0,8 / -1,1				
S = 2.0H		2,2 / -1,7					1,7 / -2,3				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 984 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	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	109	105	101	98	107	103	99	96	98	95	93	94	92	89	90	88	86	84
2	101	93	87	82	98	91	86	81	87	83	79	84	80	77	81	77	75	72
3	93	83	76	70	90	81	75	69	78	72	68	75	70	66	72	68	65	63
4	85	75	67	60	83	73	66	60	70	64	59	68	62	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	54	50	48
6	73	61	53	47	71	60	52	46	58	51	46	56	50	45	54	49	45	43
7	68	56	47	42	66	55	47	41	53	46	41	51	45	40	50	44	40	38
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34
9	59	47	39	34	58	46	39	34	45	38	33	44	37	33	42	37	33	31
10	56	43	36	31	54	43	35	31	42	35	30	40	34	30	39	34	30	28

LAMPS (number of lamps)

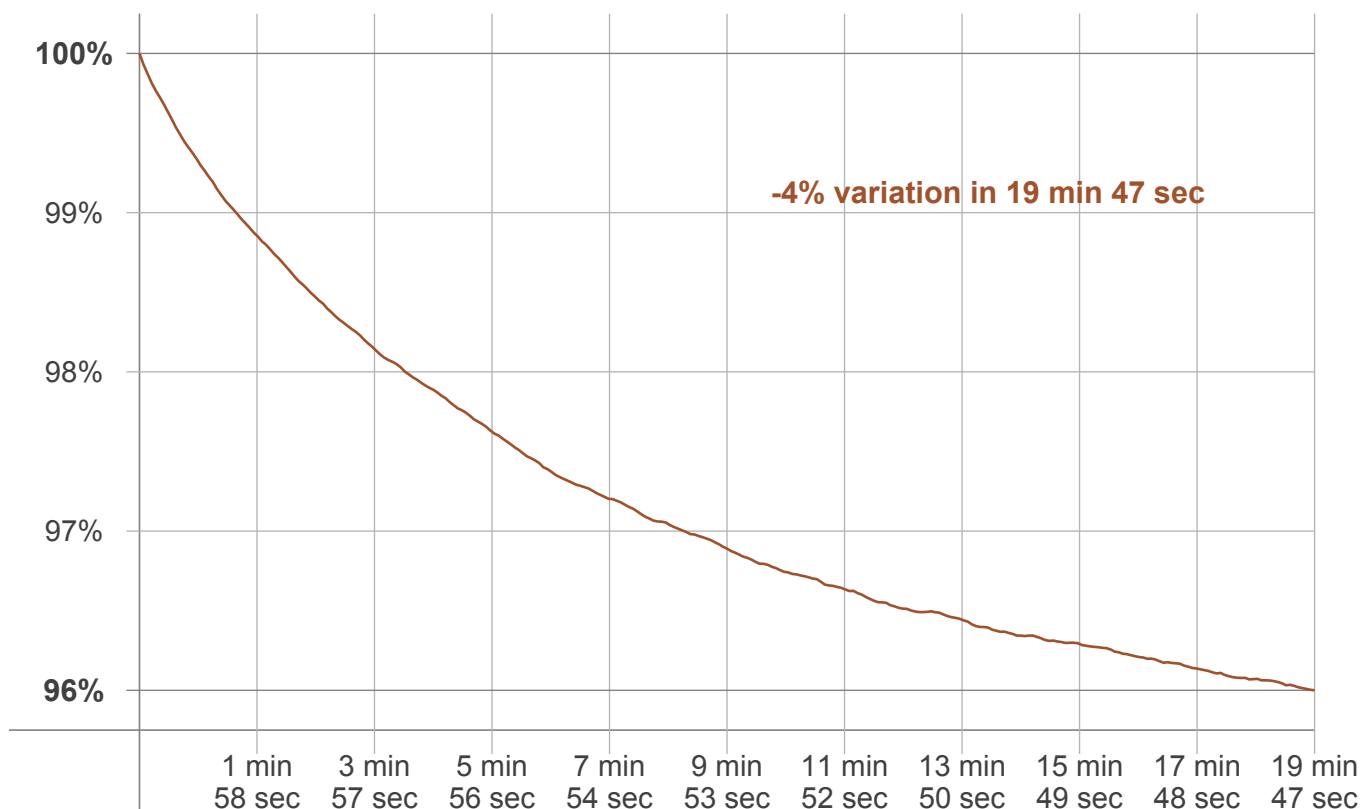
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
37,7 lm	110 lm	172 lm	208 lm	190 lm	122 lm	65,4 lm	37,1 lm	19,0 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
5,27 lm	4,48 lm	3,31 lm	2,83 lm	2,33 lm	1,83 lm	1,34 lm	0,824 lm	0,277 lm

Warmup curve



Warmup result

Warmup time:	19 min 47 sec
Warmup variation	-4,0%

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
1022 lm	-38 lm	984 lm