

Light efficiency:

134 Lumen/Watt

Light quality:

CRI: 0,0

Color temperature:

0 K

Output: 1028 lm

Peak: 2104 cd

Power: 7,7 W

PF: 1,0



Product name:

Defiant-0508-XXG-L3T

Item number:

FLNP/L22A0508/XXG/L3T

Date and time:

08.07.2020 10:00:21

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:

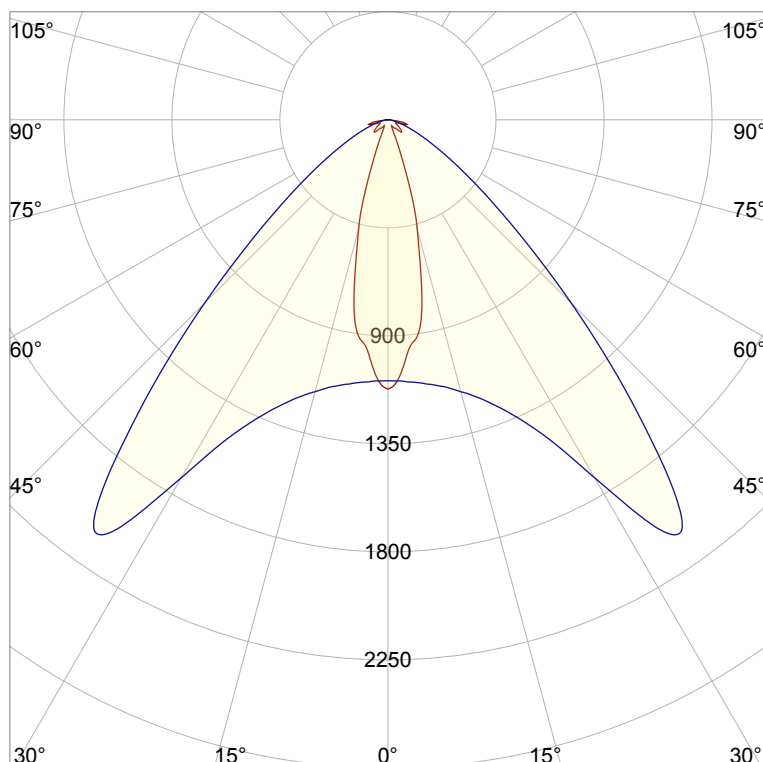
Peter Ulrich

Pruefort:

Lichtlabor

Gaustrasse 13

55411 Bingen am Rhein

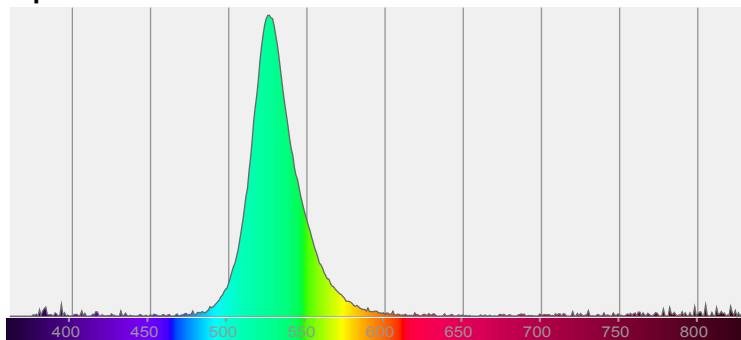


CIE 1931

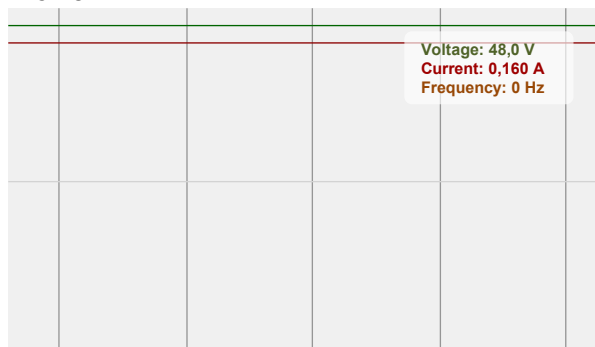
x: 0,199

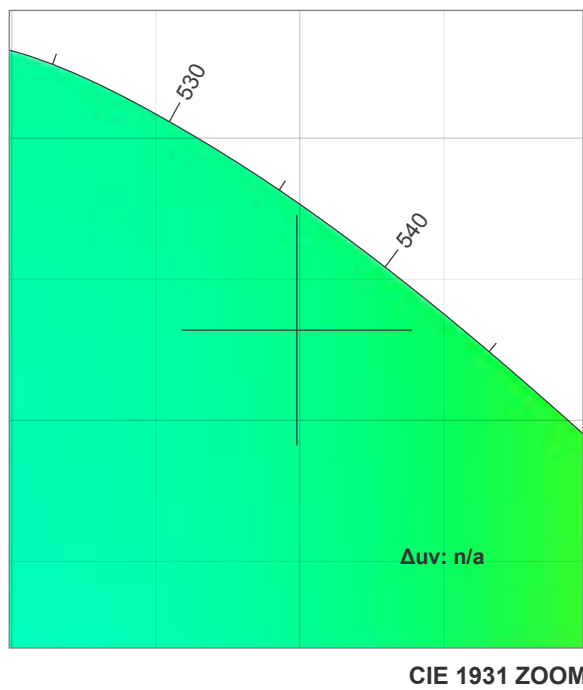
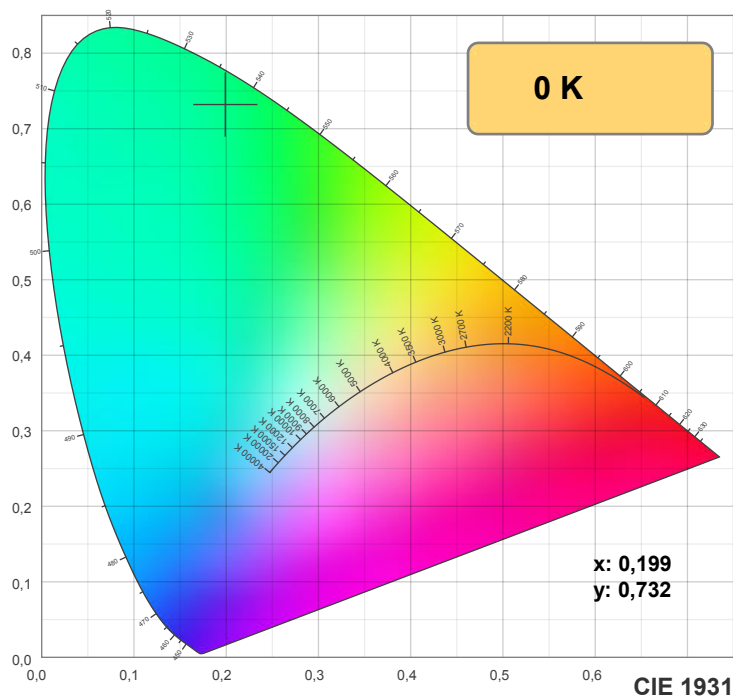
y: 0,732

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	0,732	0,070	0,386	n/a

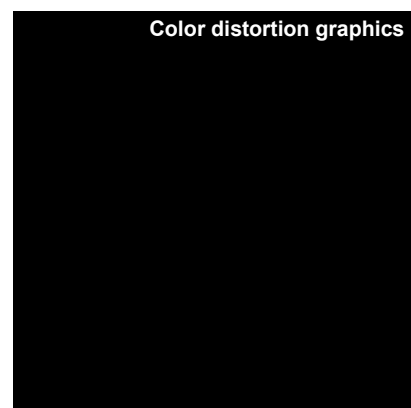
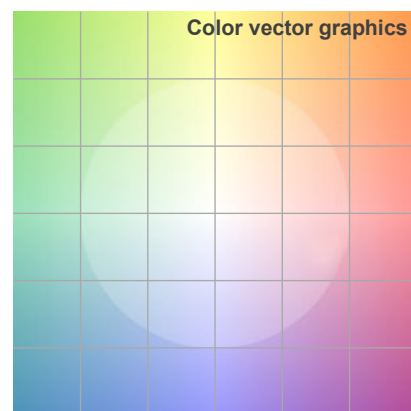
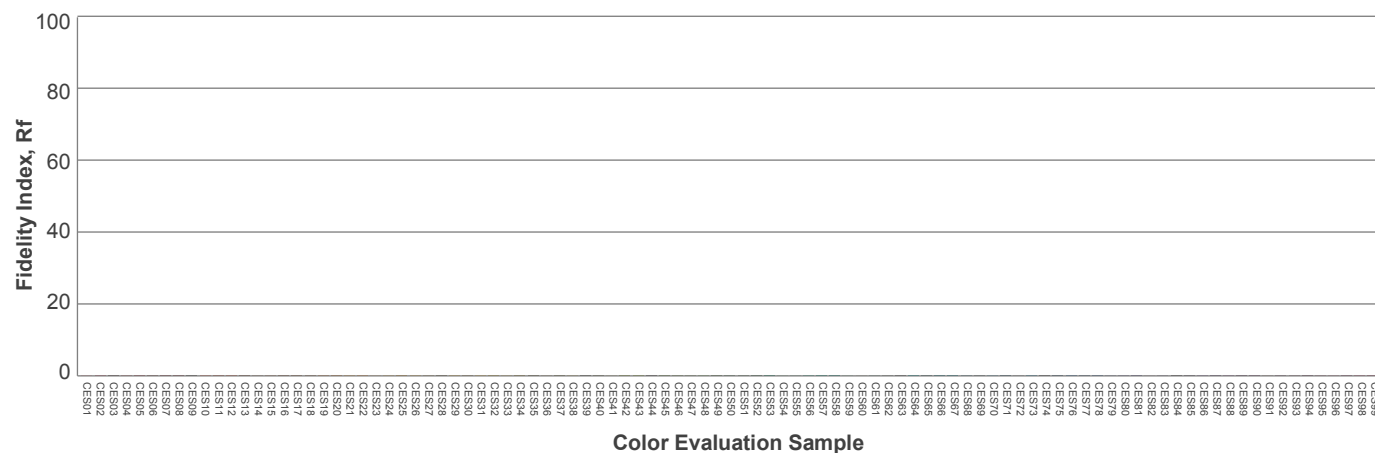
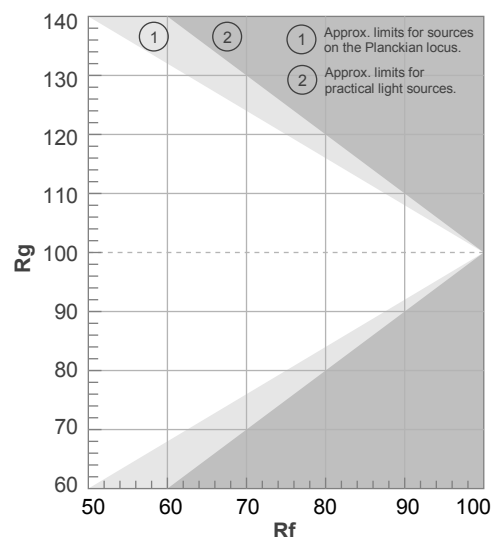
Rf 0,0

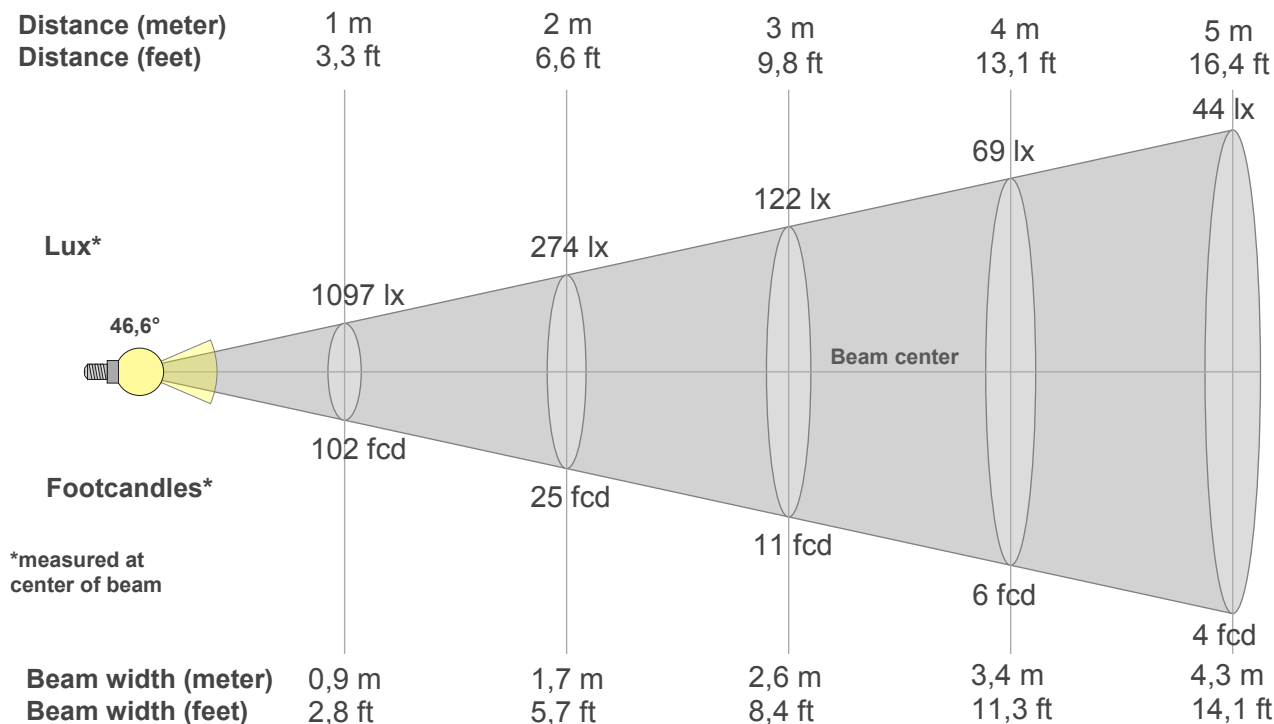
Fidelity index Rf

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
1097lx	274lx	122lx	69lx	44lx	30lx	22lx	17lx	14lx	11lx	9lx	8lx	6lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx
101,9fcd	25,5fcd	11,3fcd	6,4fcd	4,1fcd	2,8fcd	2,1fcd	1,6fcd	1,3fcd	1fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,3fcd

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°
1097	1089	1010	940	901	810	661	523	419	286	171	104	59	40	32	28	27	32	38	43
100%	99%	92%	86%	82%	74%	60%	48%	38%	26%	16%	9%	5%	4%	3%	3%	3%	3%	3%	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°
1097	1088	1094	1100	1110	1122	1137	1160	1185	1217	1257	1307	1370	1452	1566	1722	1908	2071	2080	1905
100%	99%	100%	100%	101%	102%	104%	106%	108%	111%	115%	119%	125%	132%	143%	157%	174%	189%	190%	174%

Intensities in 180° c-plane

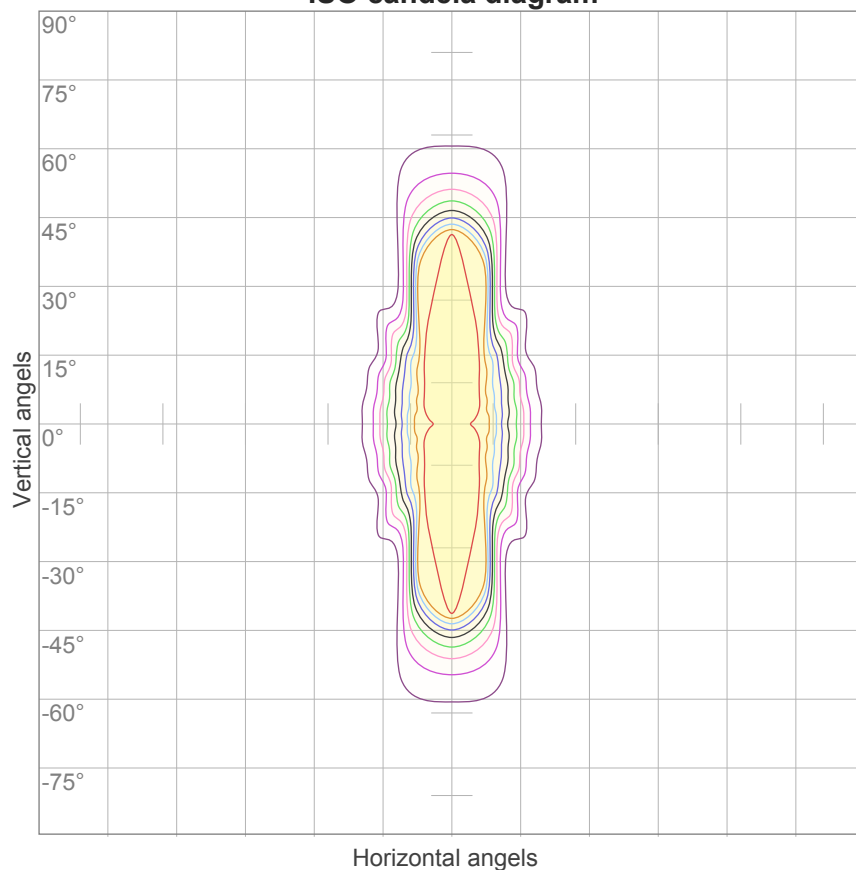
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1097	1089	1010	940	901	810	661	523	419	286	171	104	59	40	32	28	27	32	38	43
100%	99%	92%	86%	82%	74%	60%	48%	38%	26%	16%	9%	5%	4%	3%	3%	3%	3%	3%	4%

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°
1097	1088	1094	1100	1110	1122	1137	1160	1185	1217	1257	1307	1370	1452	1566	1722	1908	2071	2080	1905
100%	99%	100%	100%	101%	102%	104%	106%	108%	111%	115%	119%	125%	132%	143%	157%	174%	189%	190%	174%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
46,6°	65,5°	153,7°	87,6%	73,0%

ISO candela diagram



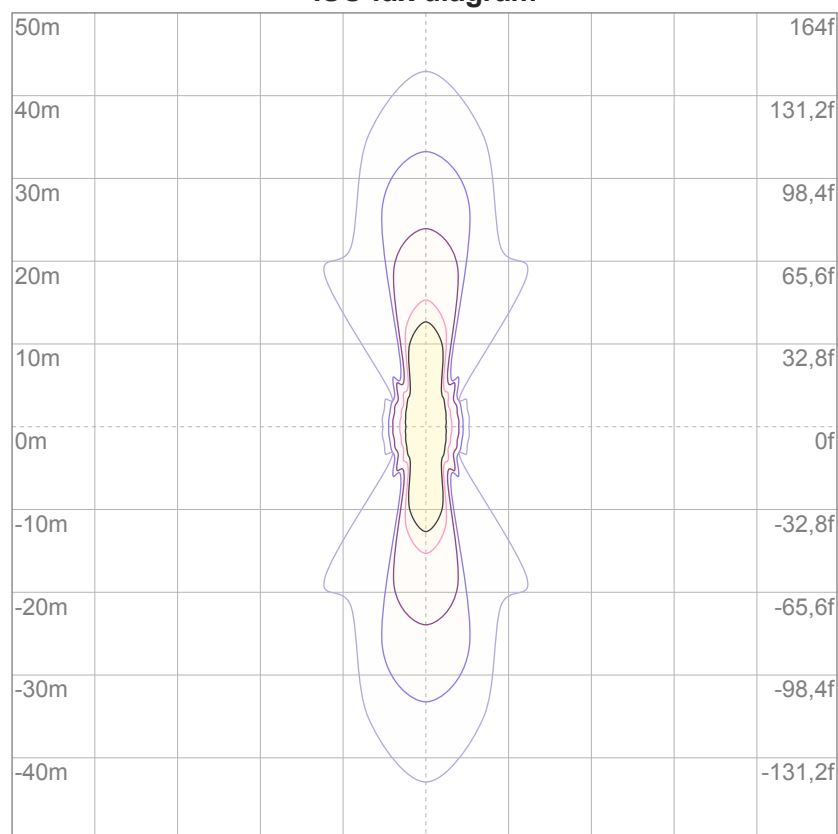
10%	110 cd
20%	219 cd
30%	329 cd
40%	439 cd
50%	548 cd
60%	658 cd
70%	768 cd
80%	877 cd
90%	987 cd

Conditions:

Number of c-planes: 16

Candela at center: 1097 cd

ISO lux diagram



3%	0,329 lx
5%	0,548 lx
10%	1,10 lx
30%	3,29 lx
50%	5,48 lx

Conditions:

Number of c-planes: 16

Lux at center: 11,0 lx

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

Glare Evaluation According to UGR

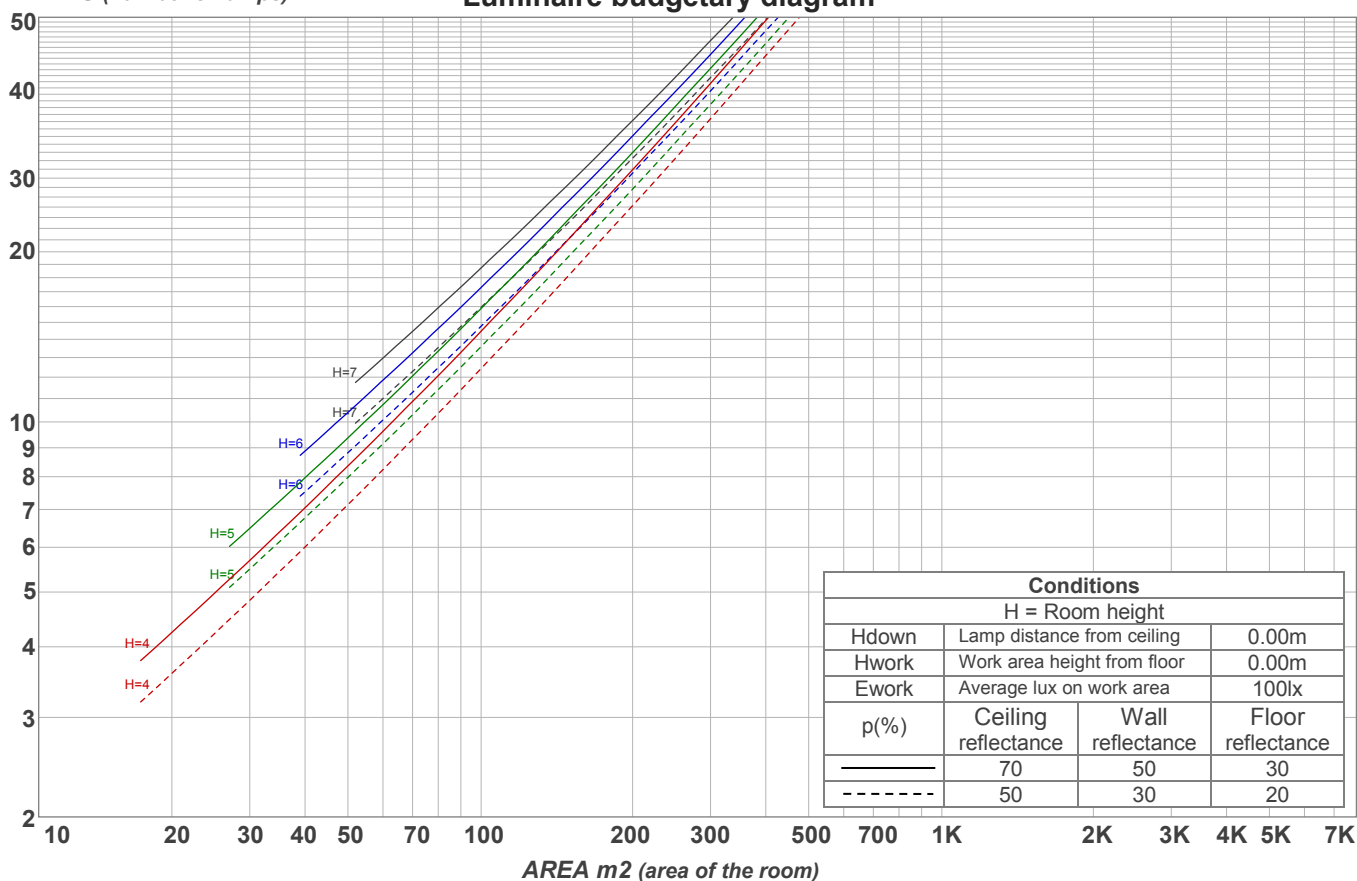
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	13,7	14,6	13,9	14,9	15,1	25,9	26,8	26,1	27,1	27,3
	3H	15,2	16,2	15,6	16,5	16,6	26,1	27,1	26,5	27,3	27,5
	4H	17,7	18,7	18,1	18,9	19,2	26,2	27,2	26,6	27,4	27,6
	6H	20,5	21,3	20,8	21,6	22,0	26,3	27,1	26,6	27,4	27,8
	8H	20,9	21,7	21,2	22,0	22,4	26,3	27,1	26,6	27,4	27,8
	12H	20,9	21,7	21,3	22,1	22,5	26,2	27,0	26,6	27,4	27,8
4H	2H	14,2	15,2	14,6	15,4	15,7	25,6	26,5	26,0	26,8	27,0
	3H	16,1	16,8	16,4	17,2	17,6	26,0	26,7	26,3	27,1	27,5
	4H	18,8	19,5	19,2	19,9	20,4	26,0	26,7	26,4	27,1	27,7
	6H	21,9	22,6	22,4	22,9	23,3	26,1	26,8	26,5	27,1	27,5
	8H	22,4	23,1	22,9	23,4	23,8	26,1	26,7	26,6	27,1	27,5
	12H	22,5	23,0	22,9	23,4	23,9	26,0	26,6	26,5	27,0	27,5
8H	4H	19,1	19,8	19,6	20,1	20,5	25,9	26,6	26,4	26,9	27,3
	6H	22,6	23,1	23,1	23,5	24,1	26,0	26,5	26,5	27,0	27,5
	8H	23,3	23,7	23,8	24,2	24,8	26,1	26,5	26,6	27,0	27,7
	12H	23,4	23,7	24,0	24,2	24,8	26,1	26,5	26,7	27,0	27,6
12H	4H	19,1	19,7	19,6	20,1	20,6	25,9	26,4	26,4	26,9	27,3
	6H	22,7	23,1	23,2	23,7	24,3	26,1	26,5	26,6	27,0	27,7
	8H	23,5	23,8	24,0	24,3	24,9	26,2	26,5	26,8	27,0	27,6
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / 0,0					2,9 / -3,5				
S = 1.5H		0,2 / -0,1					5,1 / -4,9				
S = 2.0H		0,2 / -0,3					6,9 / -5,7				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1028 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	110	110	110	105	105	105	101	101	101	98
1	110	106	103	100	108	104	101	98	100	97	95	95	93	91	92	90	88	86
2	103	96	91	86	100	94	89	85	90	86	83	87	84	81	84	81	79	77
3	96	87	81	76	93	86	80	75	83	78	73	80	76	72	77	74	71	69
4	90	80	73	67	87	79	72	67	76	70	66	74	69	65	71	67	64	62
5	84	74	66	61	82	72	65	60	70	64	60	68	63	59	66	62	58	56
6	79	68	61	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	63	56	51	73	62	55	51	61	55	50	59	54	50	58	53	49	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	54	49	46	44
9	67	55	48	44	65	55	48	43	53	47	43	52	47	43	51	46	43	41
10	63	52	45	41	62	51	45	41	50	44	40	49	44	40	49	44	40	38

LAMPS (number of lamps)

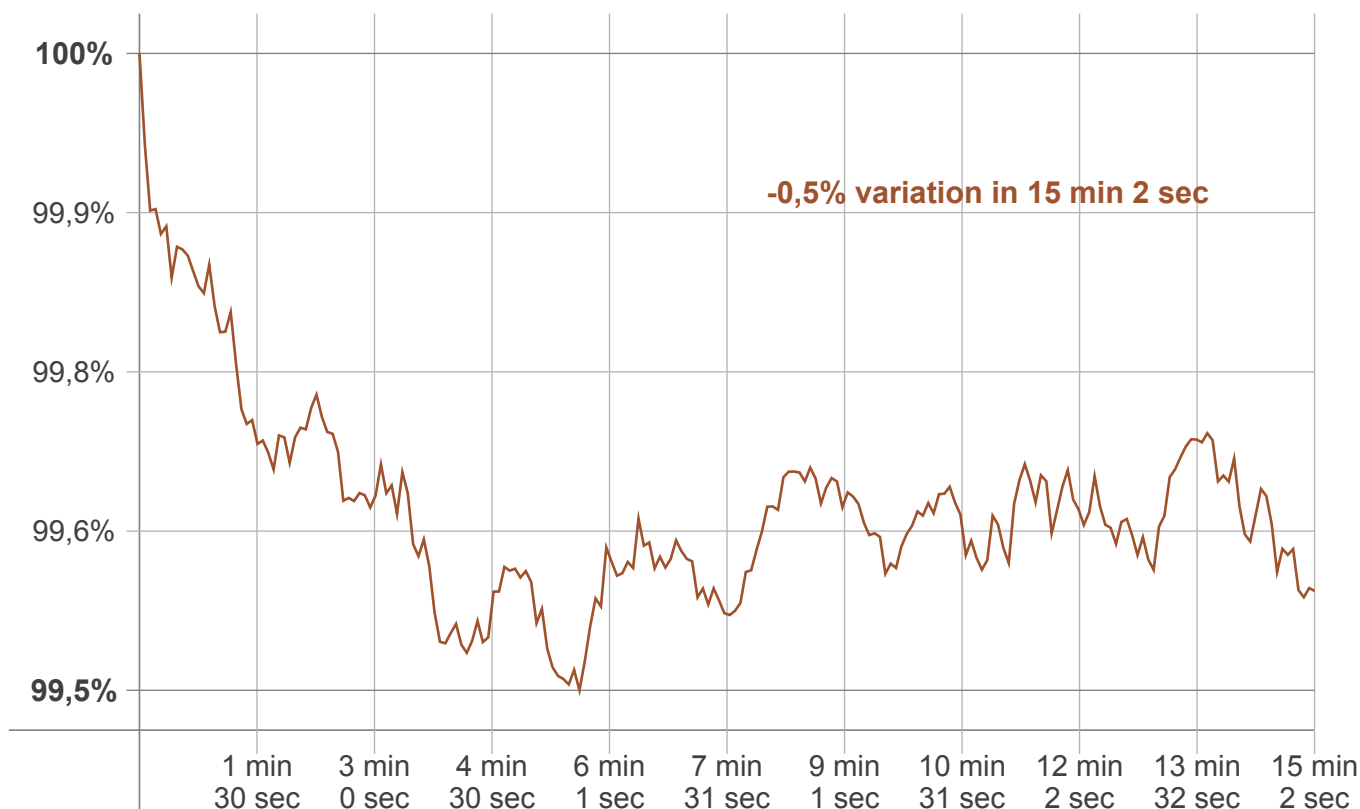
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
98,3 lm	212 lm	181 lm	183 lm	138 lm	88,1 lm	49,0 lm	39,4 lm	22,3 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
2,52 lm	2,36 lm	4,96 lm	1,39 lm	1,19 lm	0,960 lm	0,708 lm	0,433 lm	2,64 lm

Warmup curve



Warmup result

Warmup time:	15 min 2 sec
Warmup variation	-0,5%

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
1030 lm	-2 lm	1028 lm