Light efficiency:

123 Lumen/Watt

Light quality:

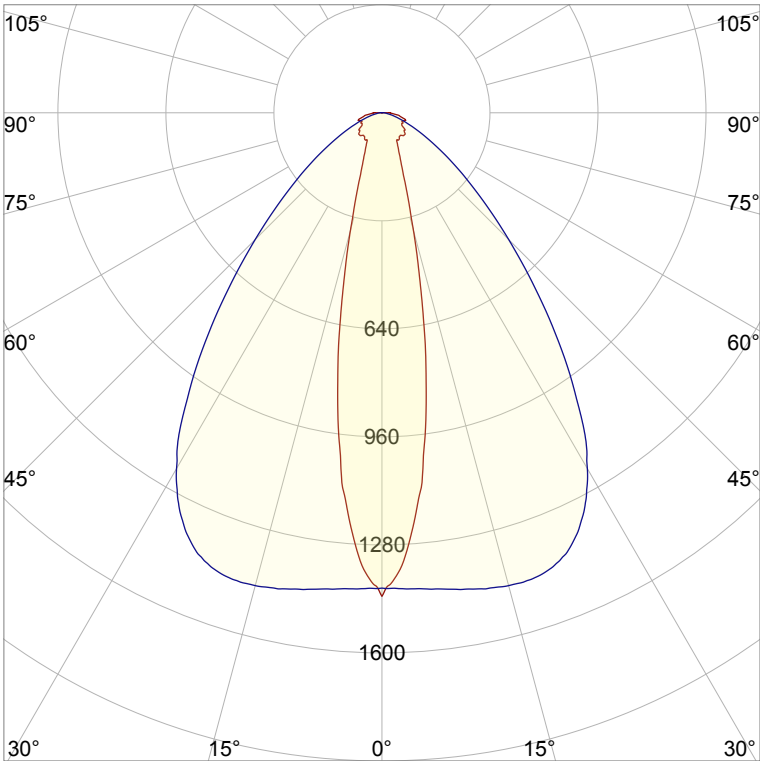
CRI: 0,0

Color temperature:

0 K

Output: 947 lm
Peak: 1452 cd

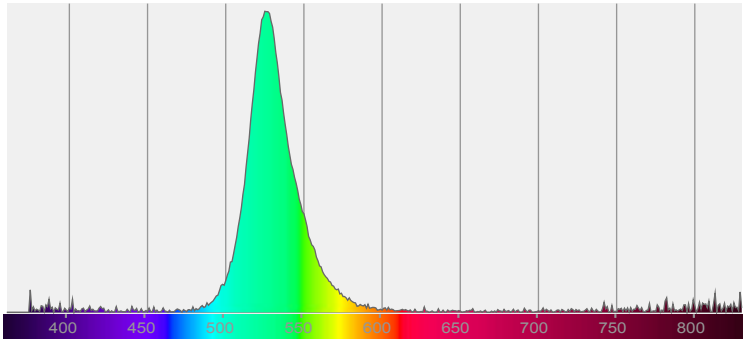
Power: 7,7 W
PF: 1,0



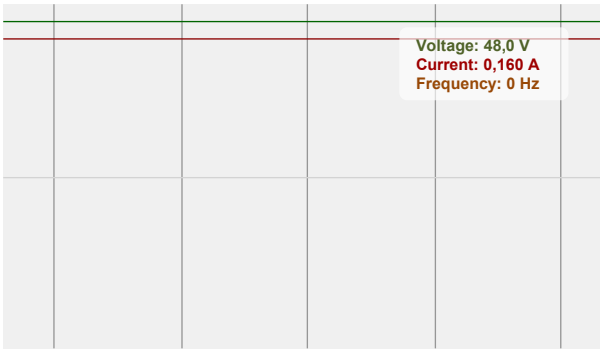
Product name:
Defiant-0508-XXG-L1F
Item number:
FLNP/L22A0508/XXG/L1F
Date and time:
08.07.2020 15:11:07
Description:
Rank: R2G2B4/RC2GA2BA5/A
Toleranzen:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 K
CRI +/-0,7
Angular Resolution 1 Grad Step
Last Calibration 20.05.2020
Pruefer:
Peter Ulrich
Pruefort:
Lichtlabor
Gaustrasse 13
55411 Bingen am Rhein

CIE 1931
x: 0,200
y: 0,726

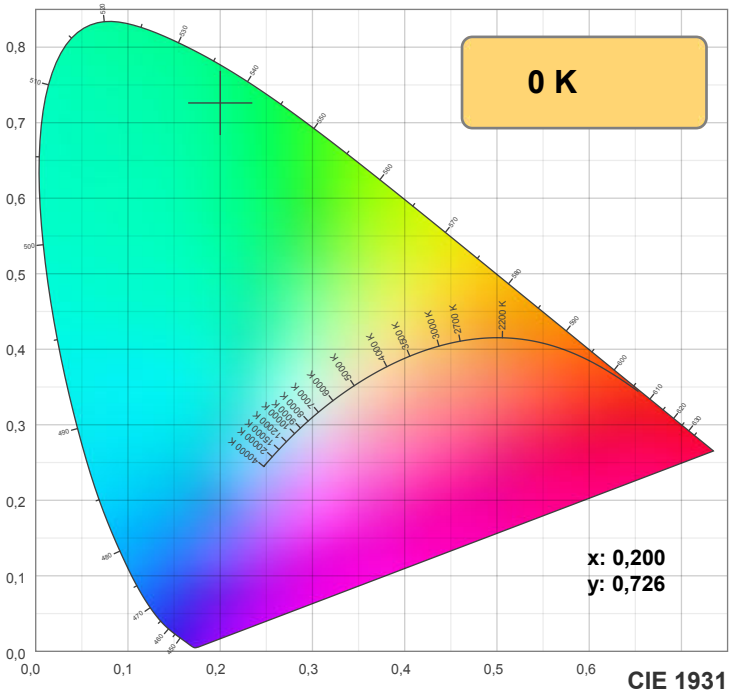
Spectra

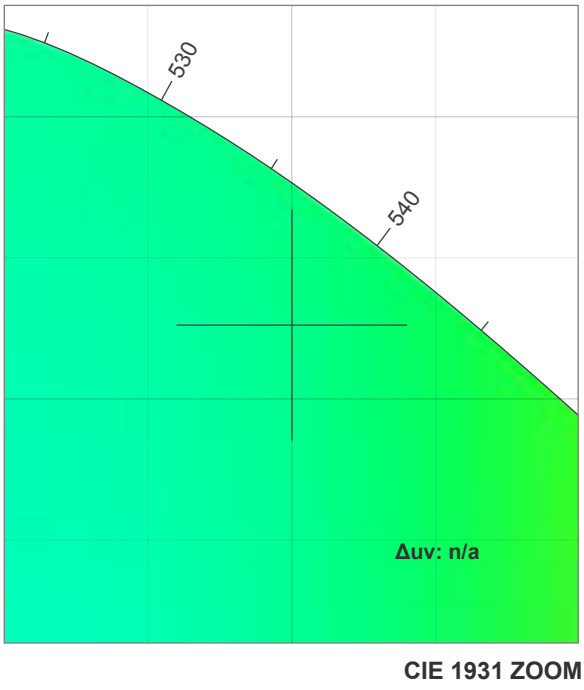


Power

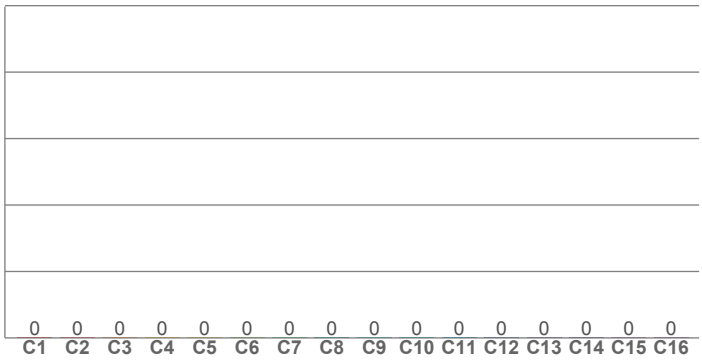


Color details

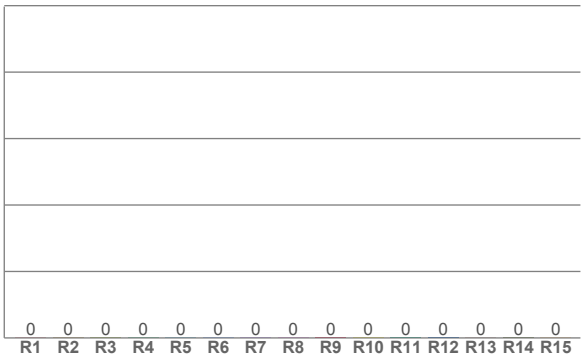




TM30: 0,0



CRI: 0,0 (R1-R8)



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

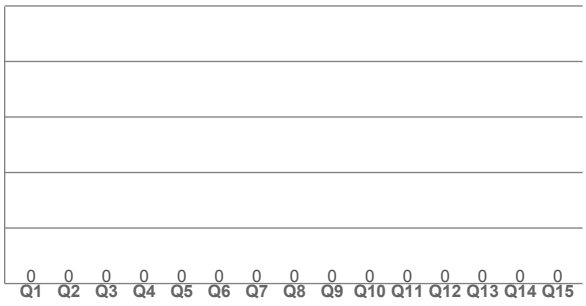
TM30 C values, 16 binned values out of total of 99 C values

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



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 diviation 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	0,200	0,726	0,071	0,385	n/a

TM30 details

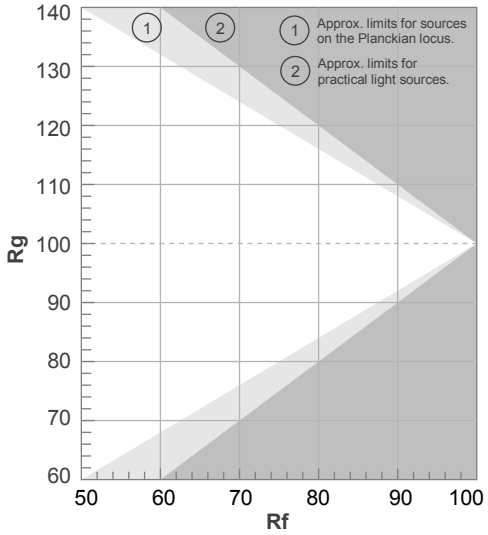
Rf 0,0

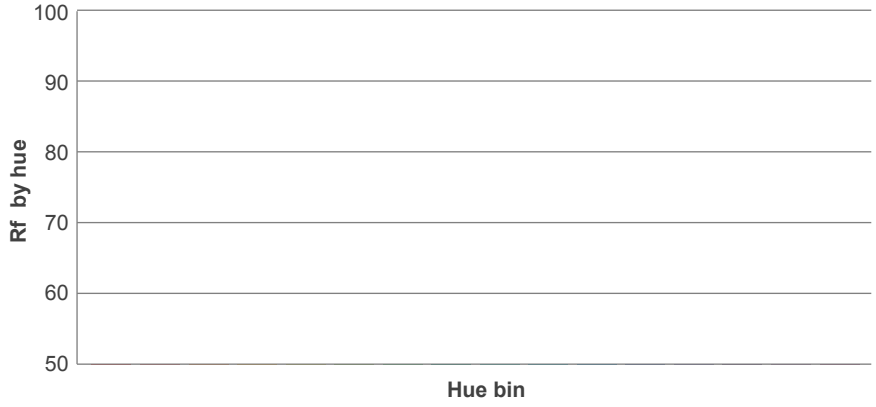
Fidelity index Rf

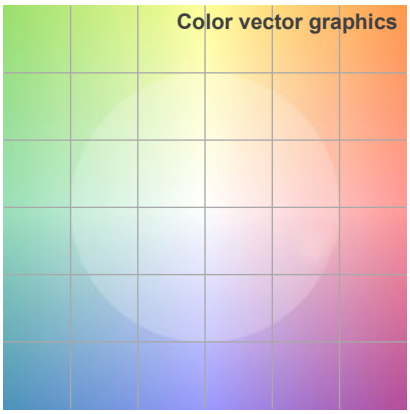
Rg 0,0

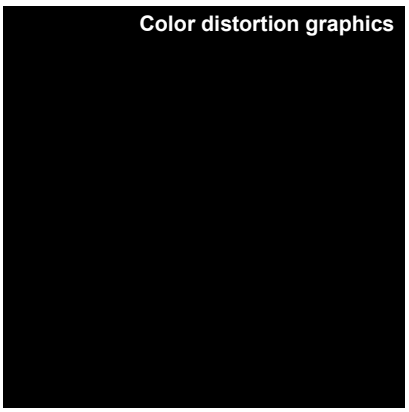
Gammut index Rg

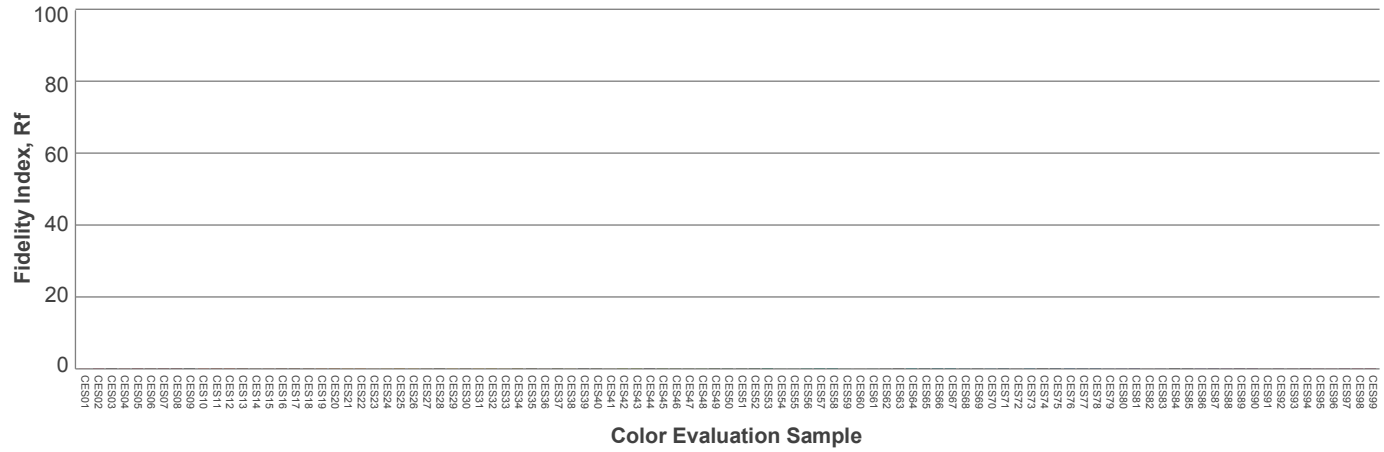
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



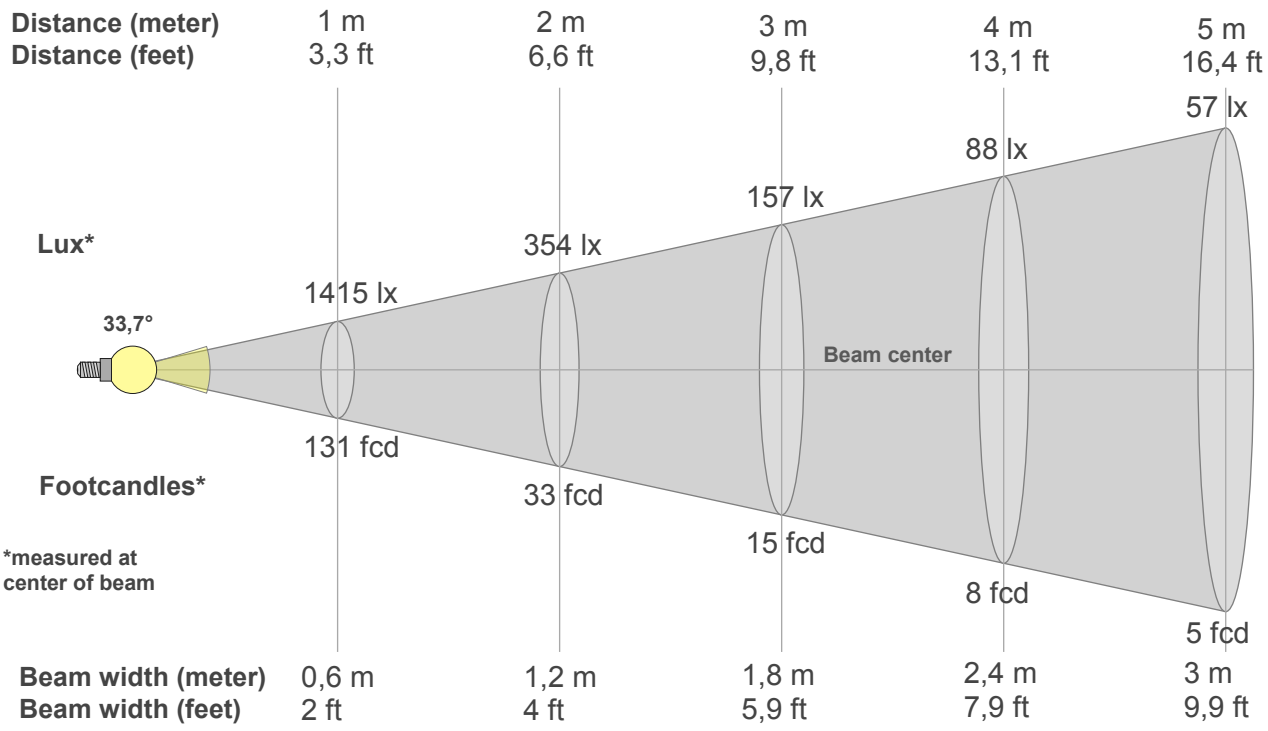








Beam details



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
1415lx	354lx	157lx	88lx	57lx	39lx	29lx	22lx	17lx	14lx	12lx	10lx	8lx	7lx	6lx	6lx	5lx	4lx	4lx	4lx
131,4fc	32,9fcd	14,6fcd	8,2fcd	5,3fcd	3,7fcd	2,7fcd	2,1fcd	1,6fcd	1,3fcd	1,1fcd	0,9fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd	0,4fcd	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°
1415	1364	1249	1113	931	748	570	424	305	228	175	144	121	106	93	92	94	92	88	87
100%	96%	88%	79%	66%	53%	40%	30%	22%	16%	12%	10%	9%	7%	7%	7%	7%	6%	6%	6%

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°
1415	1410	1414	1419	1425	1433	1442	1447	1451	1450	1441	1422	1391	1346	1290	1217	1138	1037	939	839
100%	100%	100%	100%	101%	101%	102%	102%	103%	103%	102%	101%	98%	95%	91%	86%	80%	73%	66%	59%

Intensities in 180° c-plane

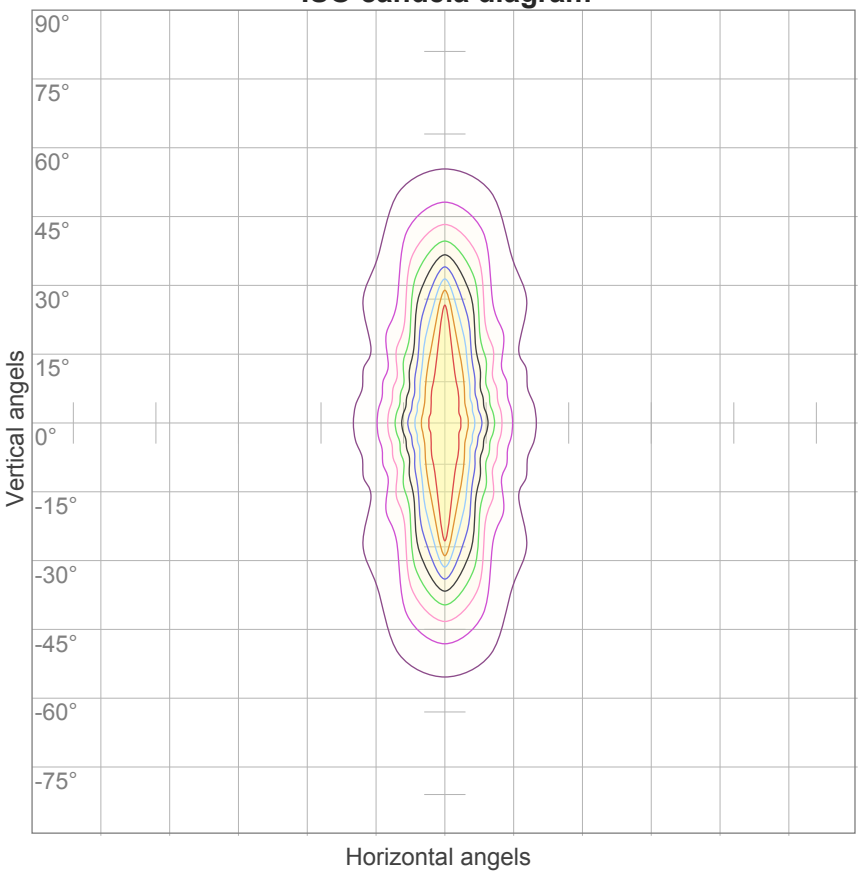
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1415	1364	1249	1113	931	748	570	424	305	228	175	144	121	106	93	92	94	92	88	87
100%	96%	88%	79%	66%	53%	40%	30%	22%	16%	12%	10%	9%	7%	7%	7%	7%	6%	6%	6%

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°
1415	1410	1414	1419	1425	1433	1442	1447	1451	1450	1441	1422	1391	1346	1290	1217	1138	1037	939	839
100%	100%	100%	100%	101%	101%	102%	102%	103%	103%	102%	101%	98%	95%	91%	86%	80%	73%	66%	59%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
33,7°	66°	159,1°	85,8%	71,2%

ISO candela diagram



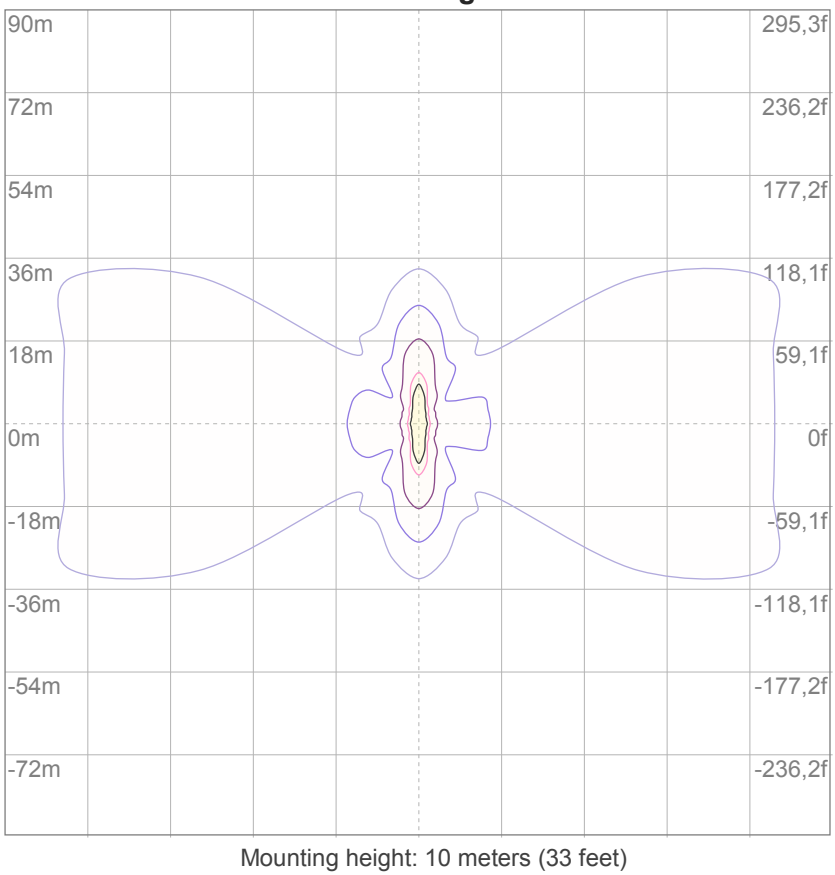
10%	141 cd
20%	283 cd
30%	424 cd
40%	566 cd
50%	707 cd
60%	849 cd
70%	990 cd
80%	1132 cd
90%	1273 cd

Conditions:

Number of c-planes: 16

Candela at center: 1415 cd

ISO lux diagram



3%	0,424 lx
5%	0,707 lx
10%	1,41 lx
30%	4,24 lx
50%	7,07 lx

Conditions:

Number of c-planes: 16

Lux at center: 14,1 lx

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

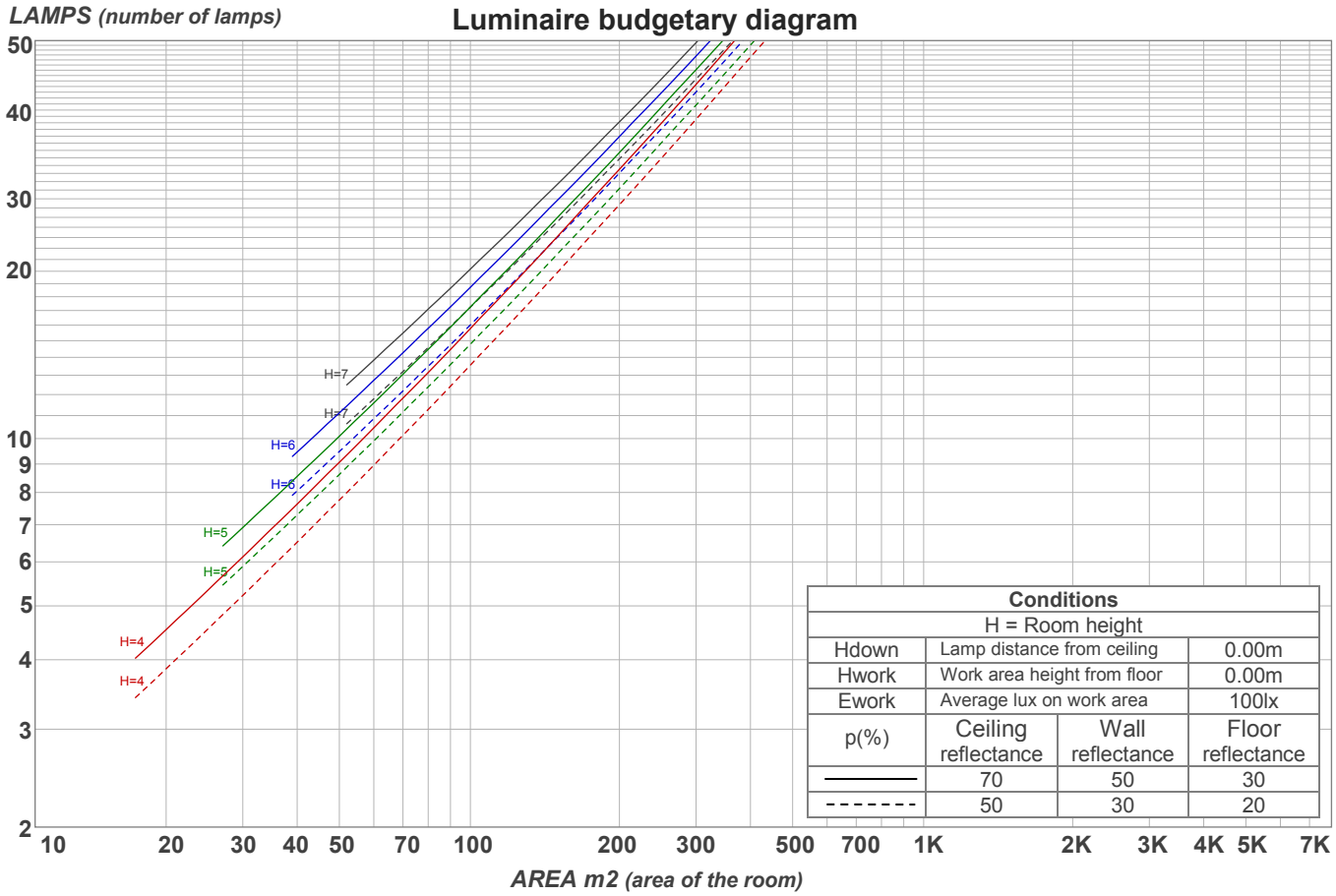
Glare Evaluation According to UGR

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	15,8	16,7	16,0	17,0	17,2	23,0	24,0	23,2	24,2	24,4
	3H	18,1	19,1	18,5	19,4	19,5	23,5	24,5	23,9	24,7	24,9
	4H	19,5	20,5	19,9	20,8	21,0	23,7	24,7	24,1	24,9	25,2
	6H	20,7	21,6	21,0	21,9	22,2	23,9	24,7	24,2	25,0	25,4
	8H	21,1	21,9	21,4	22,3	22,7	23,9	24,7	24,2	25,0	25,4
	12H	21,4	22,2	21,7	22,5	23,0	23,9	24,7	24,3	25,1	25,5
4H	2H	16,3	17,3	16,7	17,6	17,8	22,8	23,8	23,2	24,0	24,3
	3H	19,0	19,8	19,3	20,1	20,6	23,5	24,3	23,8	24,6	25,1
	4H	20,5	21,3	21,0	21,7	22,2	23,7	24,4	24,1	24,8	25,4
	6H	21,8	22,6	22,3	23,0	23,3	23,9	24,6	24,4	25,0	25,3
	8H	22,3	23,0	22,8	23,4	23,8	23,9	24,6	24,5	25,0	25,4
	12H	22,7	23,2	23,2	23,7	24,1	24,0	24,6	24,5	25,0	25,5
8H	4H	20,9	21,5	21,4	21,9	22,3	23,7	24,4	24,2	24,8	25,1
	6H	22,4	22,9	22,9	23,4	23,9	24,0	24,6	24,5	25,0	25,6
	8H	23,1	23,5	23,6	24,0	24,7	24,2	24,7	24,7	25,2	25,8
	12H	23,6	23,9	24,2	24,5	25,1	24,3	24,7	24,9	25,2	25,8
12H	4H	20,9	21,4	21,4	21,9	22,3	23,7	24,3	24,2	24,7	25,2
	6H	22,5	23,0	23,1	23,5	24,1	24,1	24,6	24,6	25,1	25,7
	8H	23,2	23,6	23,8	24,1	24,7	24,3	24,7	24,9	25,2	25,8
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,0 / 0,0					1,4 / -1,5				
S = 1.5H		0,1 / -0,1					3,0 / -2,3				
S = 2.0H		0,3 / -0,2					4,5 / -3,0				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 947 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	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87
2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	79	77
3	96	87	80	75	93	85	79	74	82	77	73	80	75	72	77	74	70	68
4	89	79	72	67	87	78	71	66	76	70	65	74	69	65	72	67	64	62
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	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	58	51	47	56	51	47	55	50	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	53	46	42	63	52	46	41	51	45	41	51	45	41	50	45	41	40

Luminaire budgetary diagram

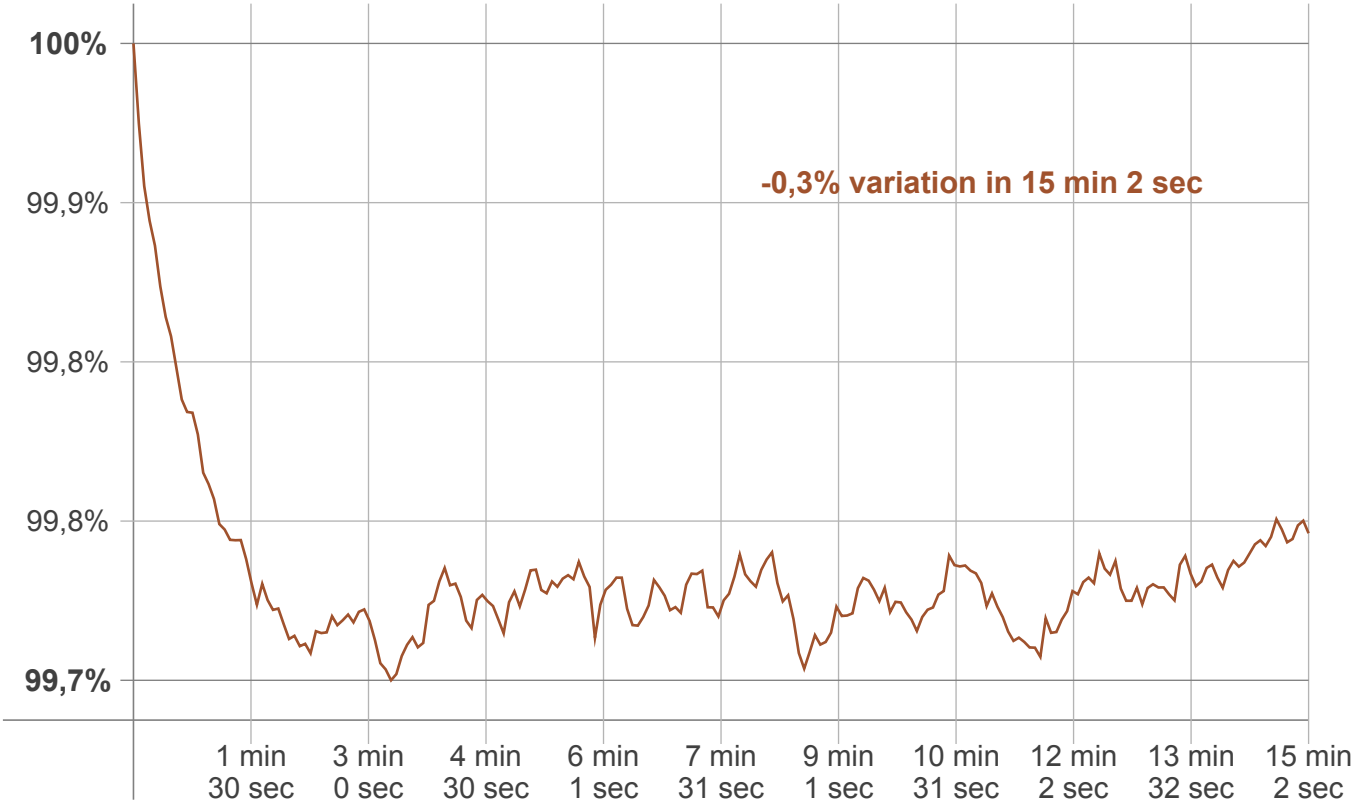


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
112 lm	190 lm	169 lm	143 lm	113 lm	84,8 lm	58,0 lm	46,0 lm	30,1 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,062 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
948 lm	**-1 lm**	**947 lm**