Light efficiency:

132 Lumen/Watt

Light quality:

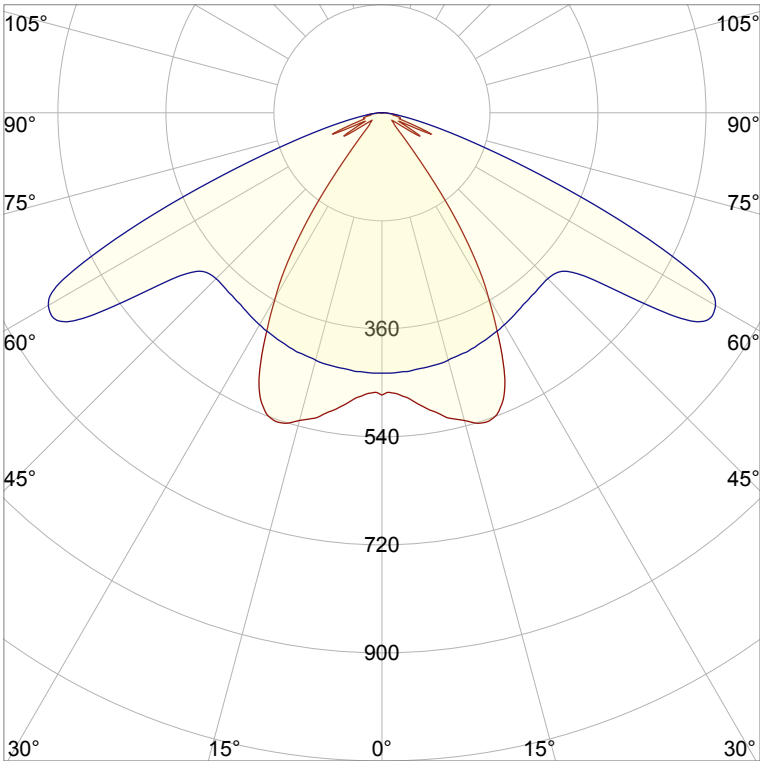
CRI: 0,0

Color temperature:

0 K

Output: 1017 lm
Peak: 646 cd

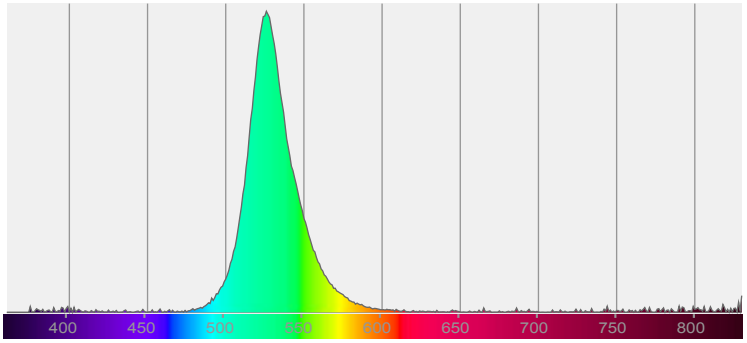
Power: 7,7 W
PF: 1,0



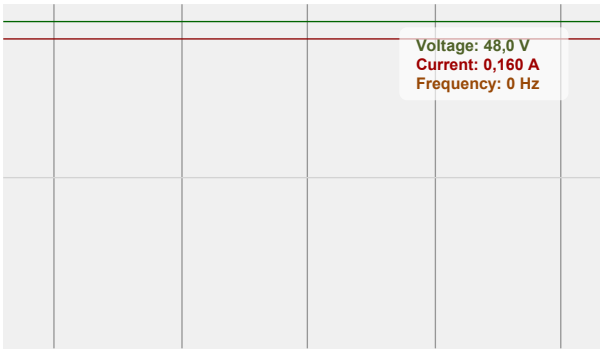
Product name:
Defiant-0508-XXG-L6T
Item number:
FLNP/L22A0508/XXG/L6T
Date and time:
07.07.2020 13:42:33
Description:
Rank: R2G2B4/RC2GA2BA5/A
Toleranzen:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 K
CRI +/-0,7
Angular Resolution 1 Grad Step
Last Calibration 20.05.2020
Pruefer:
Peter Ulrich
Pruefort:
Lichtlabor
Gaustrasse 13
55411 Bingen am Rhein

CIE 1931
x: 0,199
y: 0,733

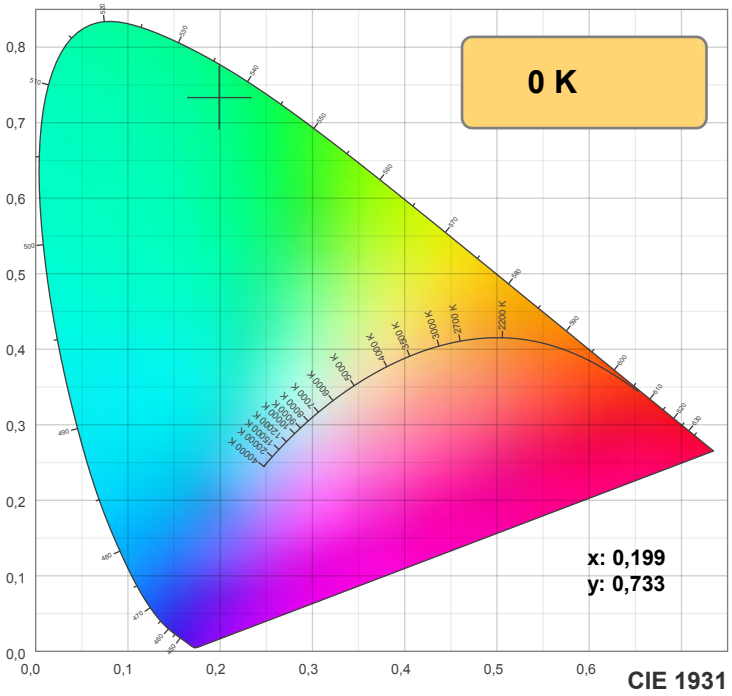
Spectra



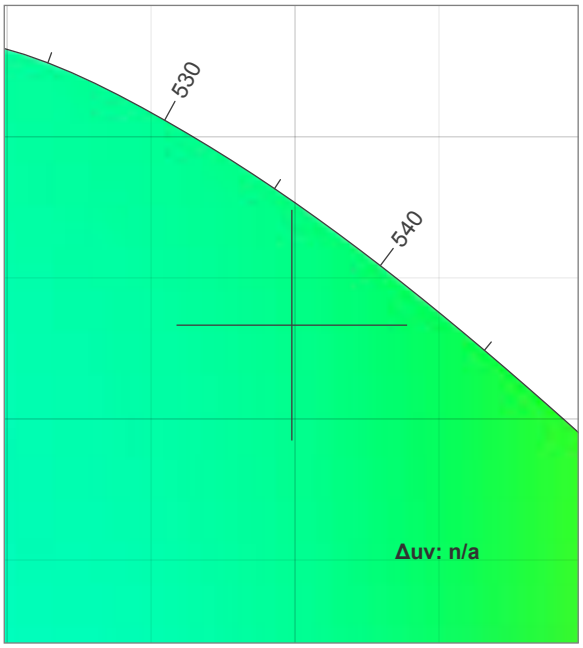
Power



Color details

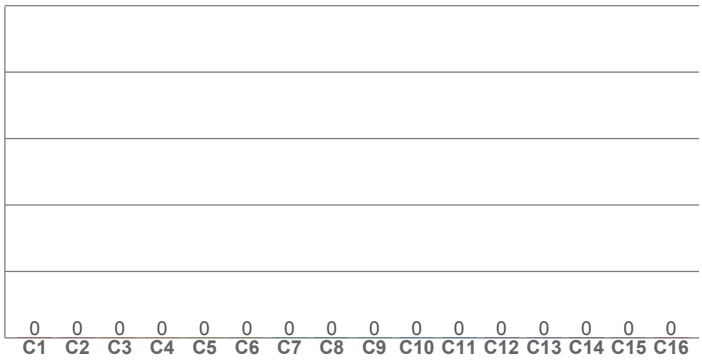


CIE 1931

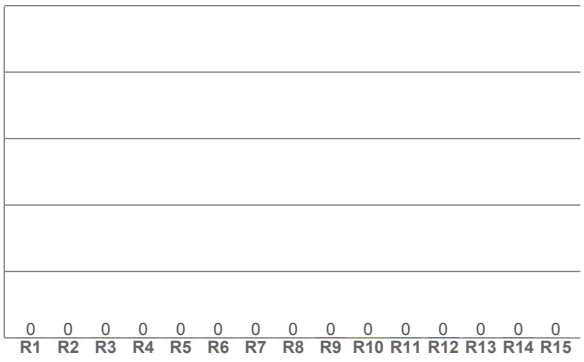


CIE 1931 ZOOM

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

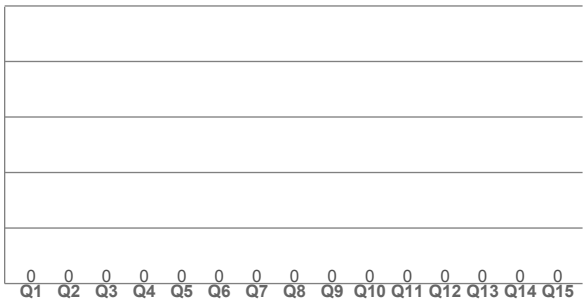
TM30 C values, 16 binned values out of total of 99 C values

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

TM30 details

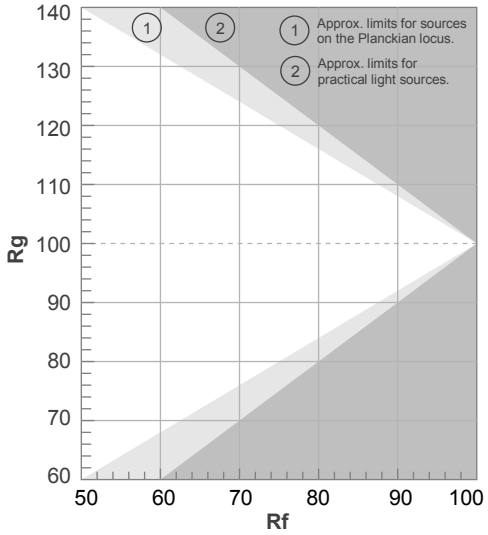
Rf 0,0

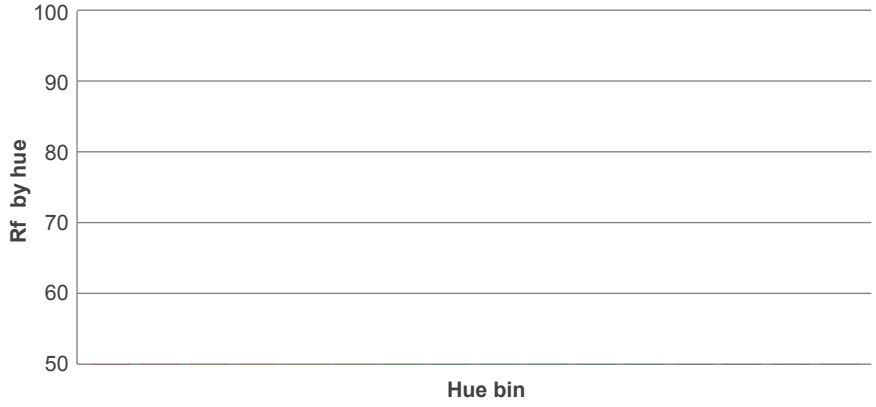
Fidelity index Rf

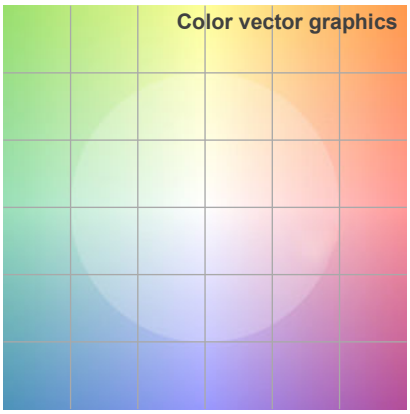
Rg 0,0

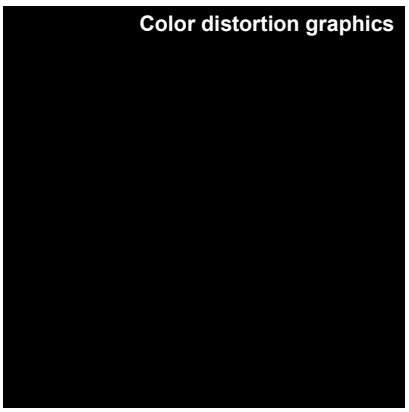
Gammut index Rg

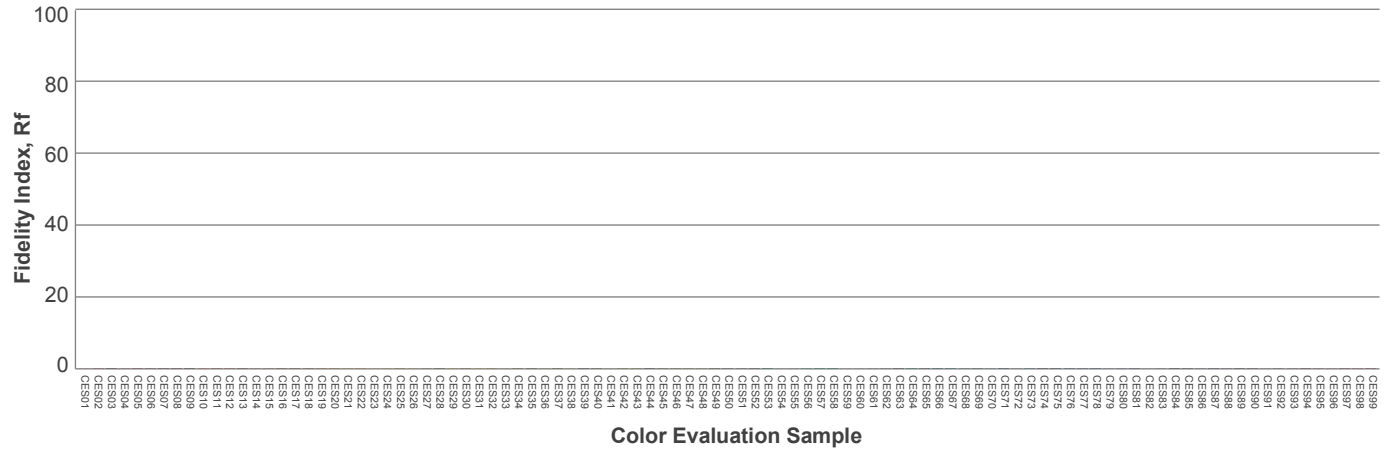
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



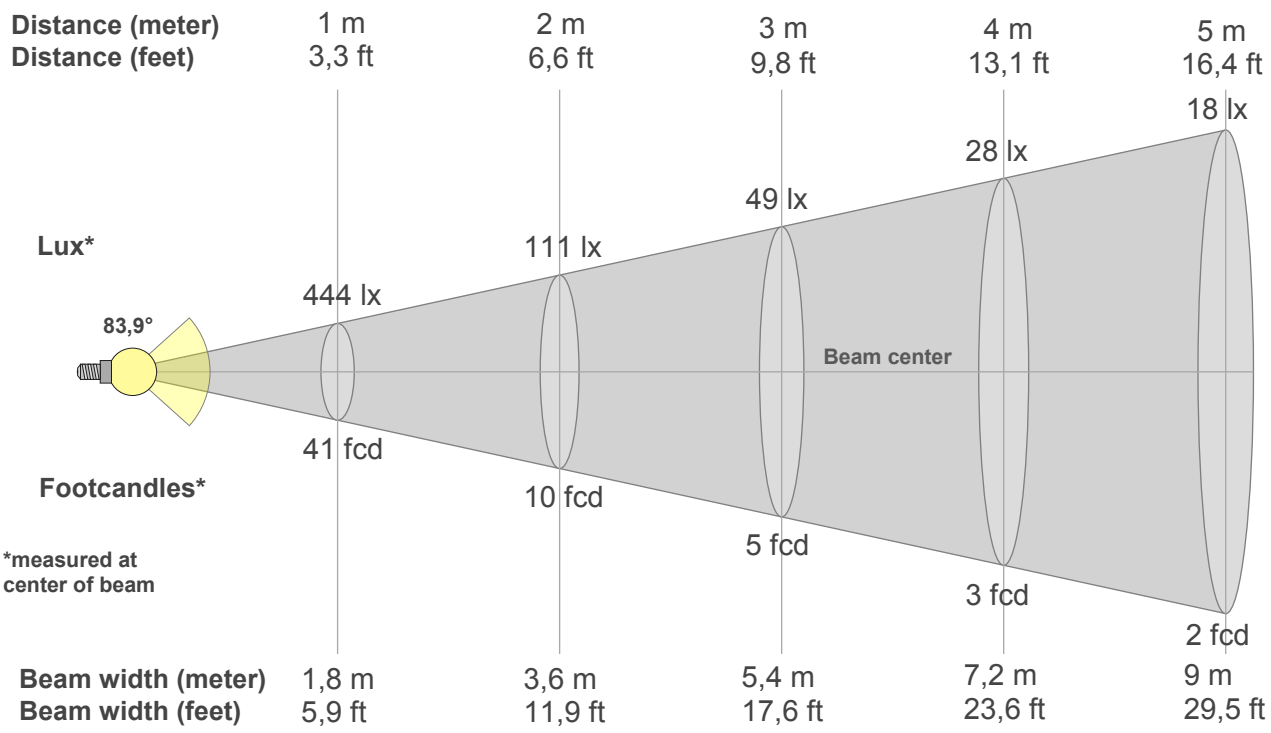








Beam details



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
444lx	111lx	49lx	28lx	18lx	12lx	9lx	7lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx
41,3fcd	10,3fcd	4,6fcd	2,6fcd	1,7fcd	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°
444	476	506	531	541	484	354	207	72	32	23	27	58	52	38	31	20	10	3	0
100%	107%	114%	120%	122%	109%	80%	47%	16%	7%	5%	6%	13%	12%	8%	7%	5%	2%	1%	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°
444	433	430	427	422	415	408	400	394	391	414	585	641	472	225	95	36	11	1	1
100%	97%	97%	96%	95%	93%	92%	90%	89%	88%	93%	132%	144%	106%	51%	21%	8%	2%	0%	0%

Intensities in 180° c-plane

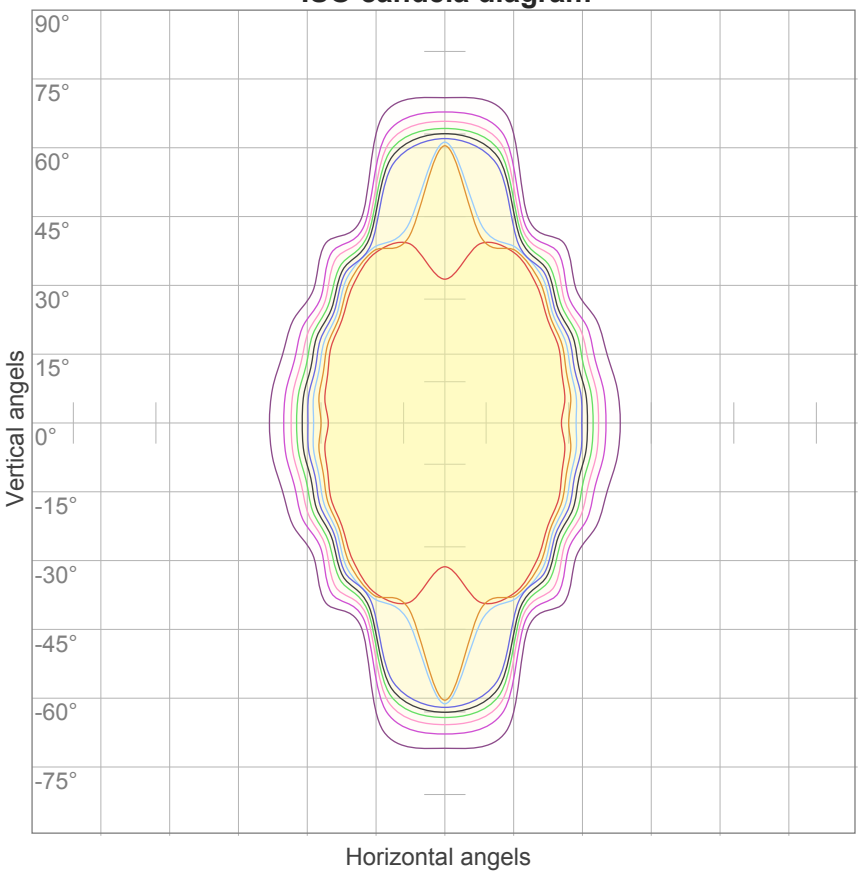
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
444	476	506	531	541	484	354	207	72	32	23	27	58	52	38	31	20	10	3	0
100%	107%	114%	120%	122%	109%	80%	47%	16%	7%	5%	6%	13%	12%	8%	7%	5%	2%	1%	0%

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°
444	433	430	427	422	415	408	400	394	391	414	585	641	472	225	95	36	11	1	1
100%	97%	97%	96%	95%	93%	92%	90%	89%	88%	93%	132%	144%	106%	51%	21%	8%	2%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
83,9°	**117,8°**	**155°**	**85,8%**	**72,3%**

ISO candela diagram



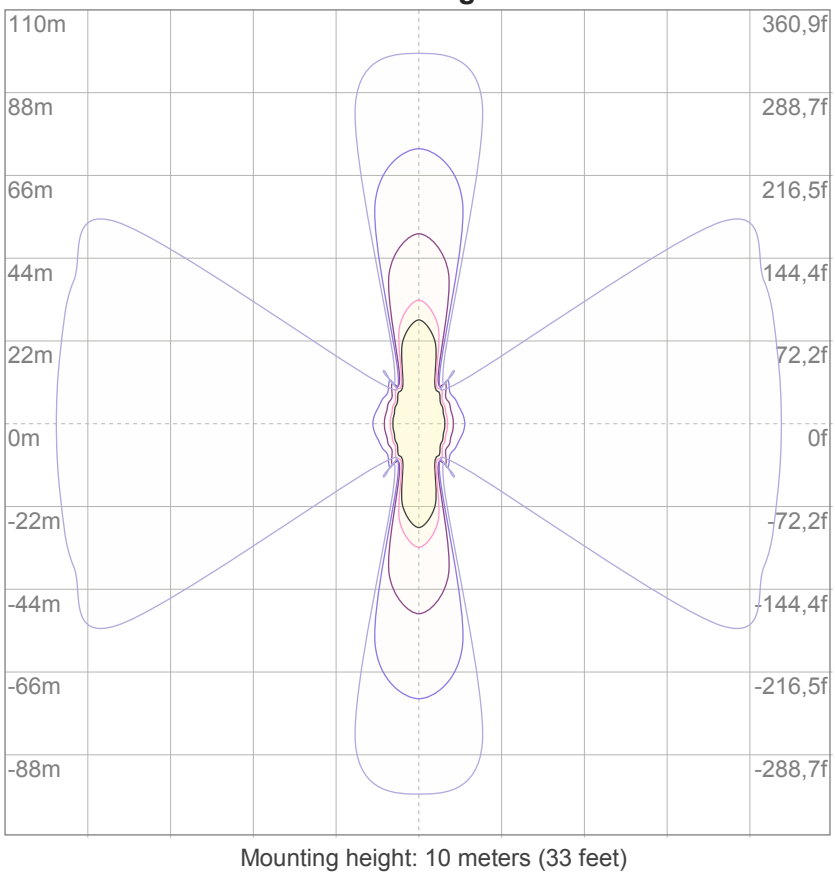
10%	44 cd
20%	89 cd
30%	133 cd
40%	178 cd
50%	222 cd
60%	266 cd
70%	311 cd
80%	355 cd
90%	400 cd

Conditions:

Number of c-planes: 16

Candela at center: 444 cd

ISO lux diagram



3%	0,133 lx
5%	0,222 lx
10%	0,444 lx
30%	1,33 lx
50%	2,22 lx

Conditions:

Number of c-planes: 16

Lux at center: 4,44 lx

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

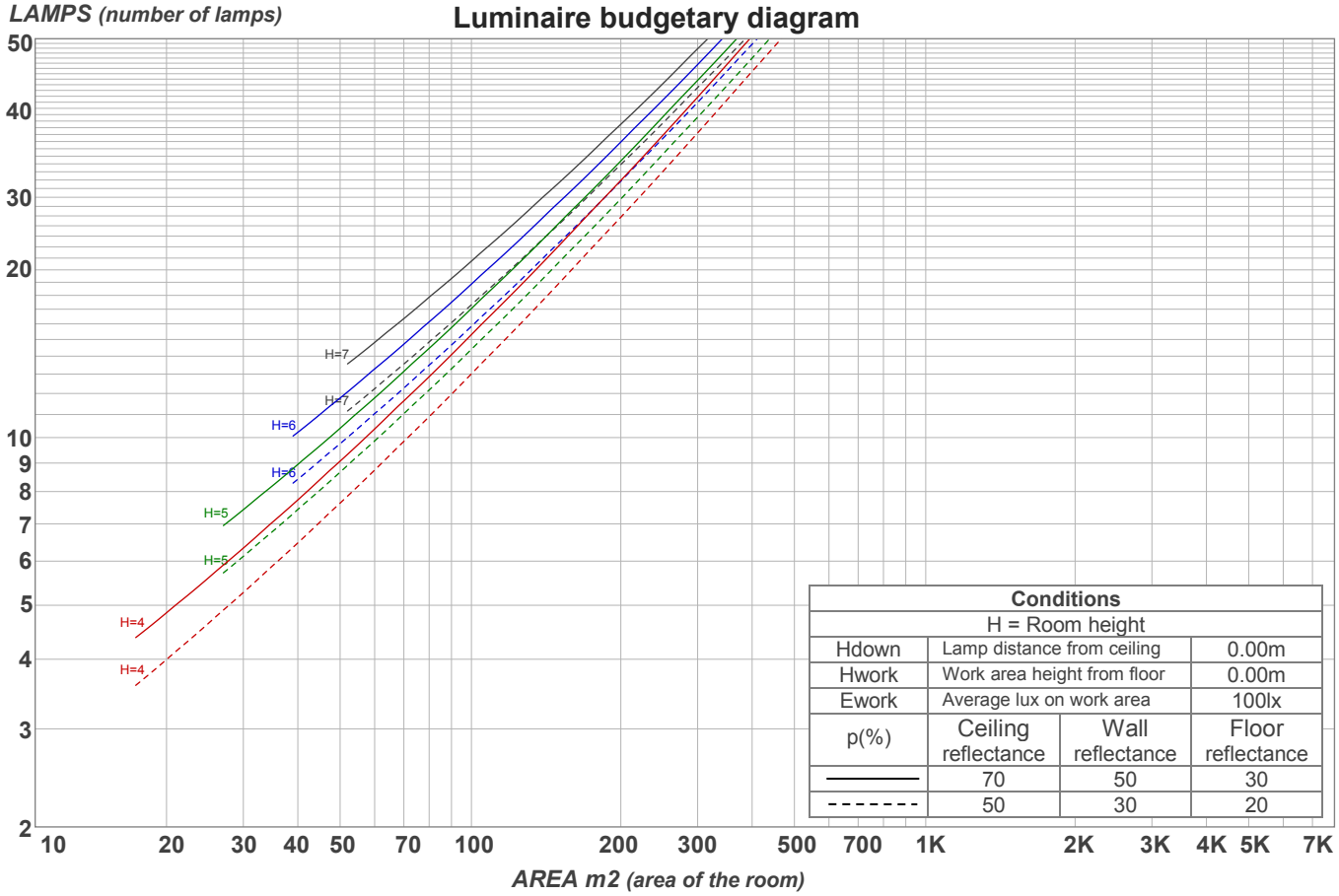
Glare Evaluation According to UGR

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	15,1	16,1	15,3	16,4	16,6	27,4	28,4	27,6	28,7	28,9
	3H	17,1	18,2	17,5	18,5	18,7	29,0	30,1	29,4	30,3	30,5
	4H	17,6	18,7	18,0	18,9	19,2	29,2	30,2	29,6	30,5	30,7
	6H	18,1	19,0	18,4	19,3	19,6	29,3	30,2	29,6	30,5	30,9
	8H	18,3	19,1	18,6	19,5	19,9	29,3	30,2	29,7	30,5	30,9
	12H	18,3	19,2	18,7	19,5	20,0	29,3	30,1	29,7	30,5	30,9
4H	2H	15,4	16,4	15,8	16,6	16,9	27,1	28,1	27,5	28,4	28,6
	3H	17,8	18,6	18,2	19,0	19,4	28,8	29,6	29,2	30,0	30,4
	4H	18,4	19,1	18,8	19,6	20,1	29,0	29,7	29,4	30,2	30,7
	6H	19,0	19,7	19,4	20,1	20,4	29,1	29,8	29,6	30,2	30,5
	8H	19,2	19,9	19,7	20,3	20,6	29,1	29,8	29,6	30,1	30,5
	12H	19,3	19,9	19,8	20,3	20,8	29,0	29,6	29,5	30,0	30,5
8H	4H	18,6	19,2	19,1	19,6	20,0	28,9	29,6	29,4	29,9	30,3
	6H	19,3	19,9	19,9	20,3	20,9	29,0	29,5	29,5	30,0	30,5
	8H	19,7	20,2	20,2	20,7	21,3	29,0	29,5	29,5	30,0	30,6
	12H	19,9	20,3	20,5	20,8	21,4	29,0	29,4	29,6	29,9	30,5
12H	4H	18,5	19,1	19,0	19,5	20,0	28,8	29,4	29,3	29,8	30,3
	6H	19,4	19,9	19,9	20,4	21,0	29,0	29,4	29,5	29,9	30,6
	8H	19,8	20,2	20,4	20,7	21,3	29,0	29,4	29,6	29,9	30,5
Variation of the observer position for the luminaire distance S											
S = 1.0H		1,0 / -0,6					1,6 / -2,5				
S = 1.5H		2,1 / -1,3					3,4 / -6,1				
S = 2.0H		3,0 / -1,6					5,2 / -8,4				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1017 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	101	101	101	99
1	110	106	103	99	108	104	101	98	100	97	95	96	93	91	92	90	89	87
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	77	75
3	94	85	78	73	92	84	77	72	81	75	71	78	73	70	76	72	68	66
4	88	77	70	64	85	76	69	63	73	67	62	71	66	62	69	64	61	59
5	82	70	62	57	80	69	62	56	67	61	56	65	59	55	63	58	54	52
6	76	64	56	51	74	63	56	50	61	55	50	60	54	49	58	53	49	47
7	71	59	51	46	69	58	51	46	57	50	45	55	49	45	54	49	44	43
8	67	54	47	42	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	35
10	59	47	40	35	58	46	39	35	45	39	35	44	39	34	43	38	34	33

Luminaire budgetary diagram

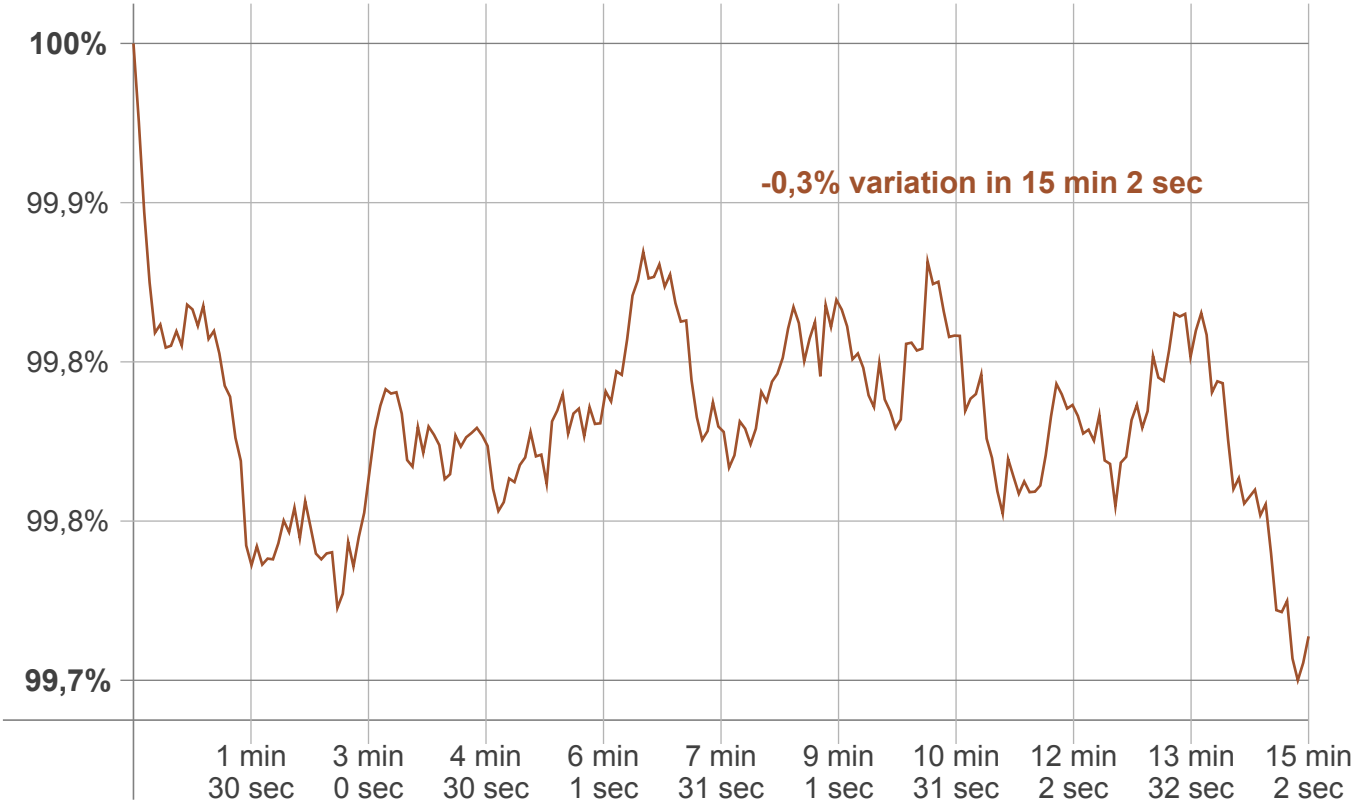


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
44,3 lm	142 lm	233 lm	235 lm	133 lm	85,4 lm	86,8 lm	35,2 lm	12,4 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
2,52 lm	2,13 lm	1,79 lm	1,20 lm	0,794 lm	0,596 lm	0,439 lm	0,269 lm	0,091 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
1019 lm	**-1 lm**	**1017 lm**