Light efficiency:

119 Lumen/Watt

Light quality:

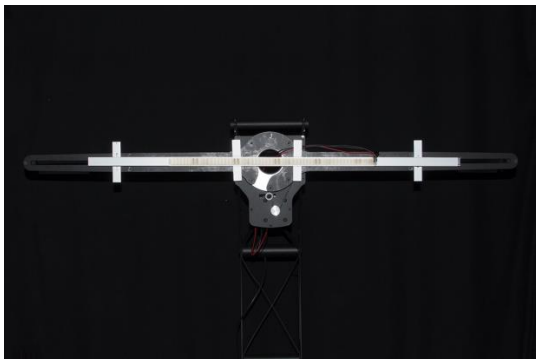
CRI: 0,0

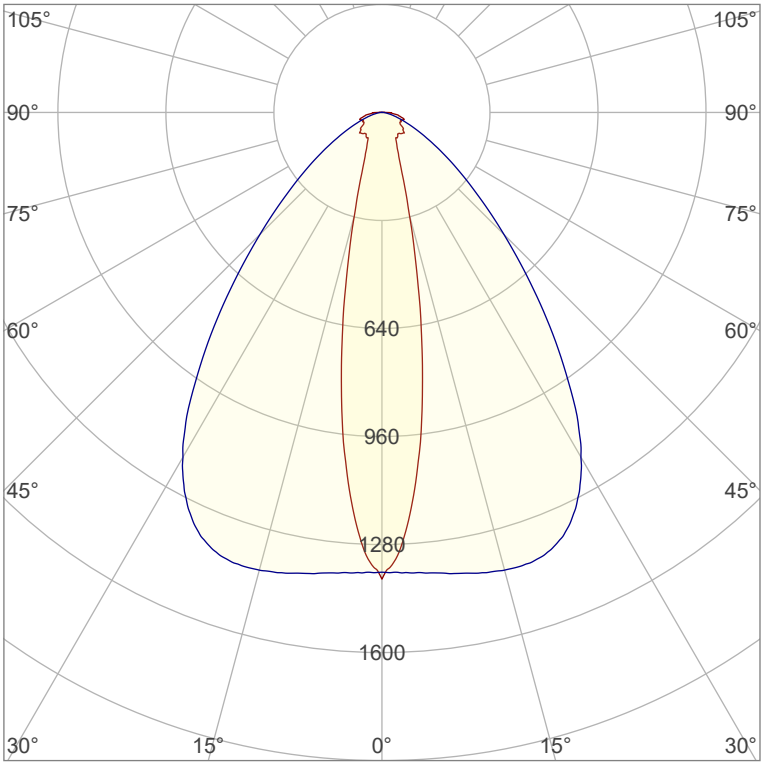
Color temperature:

0 K

Output: 912 lm
Peak: 1405 cd

Power: 7,7 W
PF: 1,0





Product name:
Defiant-3_510mm_XXG_Lens-15°-Frosted

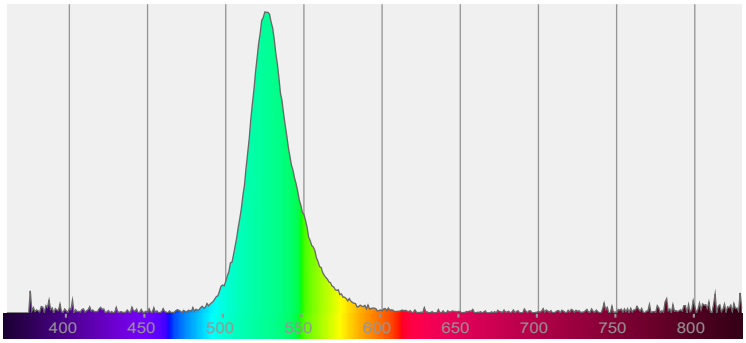
Item number:
NP/L3C/22C/0510/XXG/L1F

Date and time:
08.07.2020 15:11:07

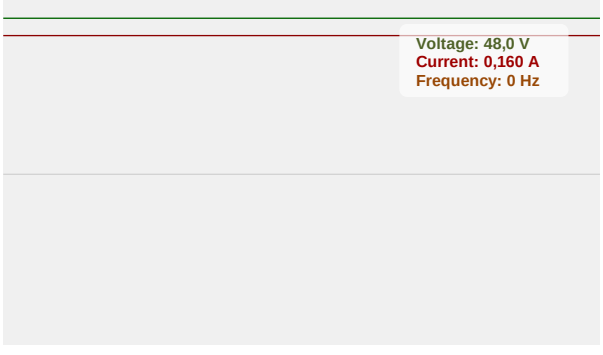
Description:
Toleranzen:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 K
CRI +/-0,7
Angular Resolution 1 Grad Step
Last Calibration 20.05.2020
Pruefer:
Peter Ulrich
Pruefort:
Lichtlabor
Gaustrasse 13
55411 Bingen am Rhein

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

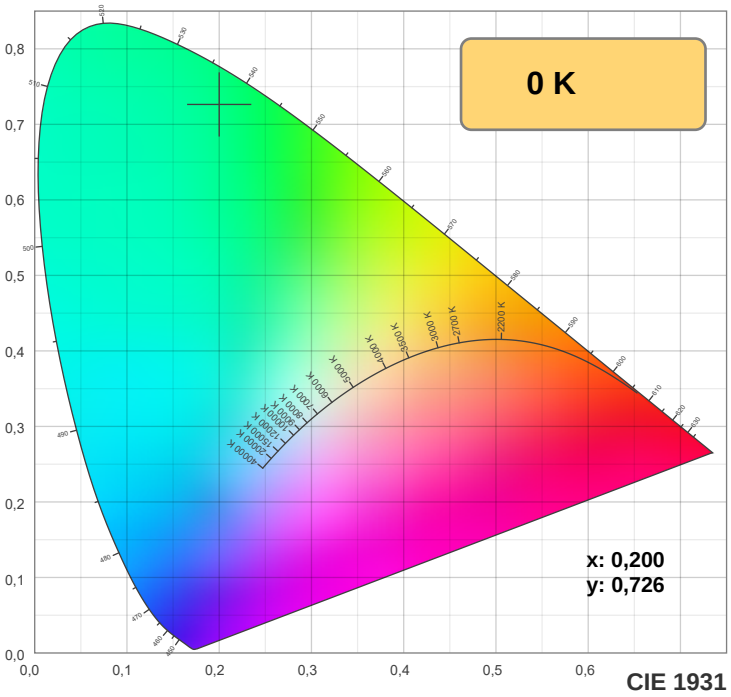
Spectra



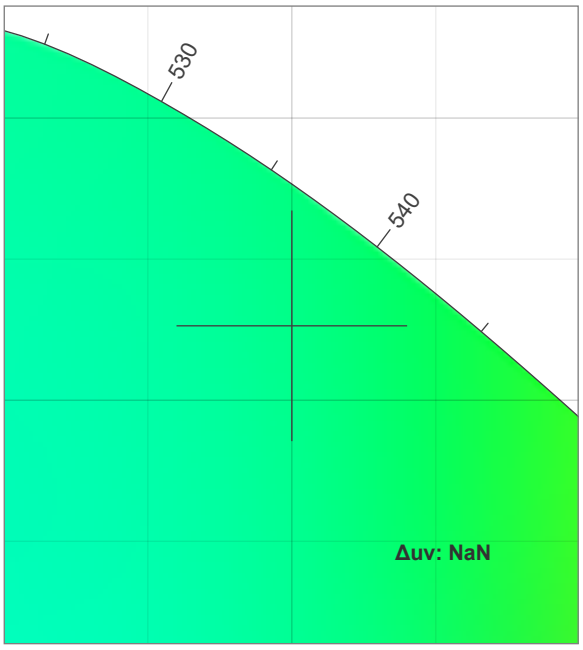
Power



Color details

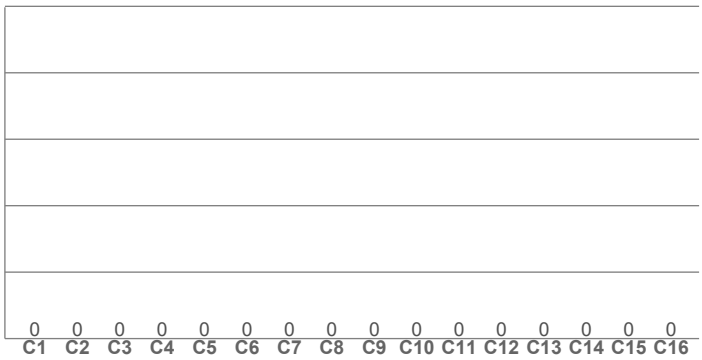


CIE 1931

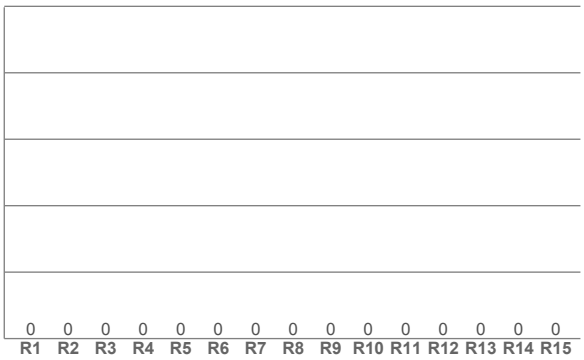


CIE 1931 ZOOM

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

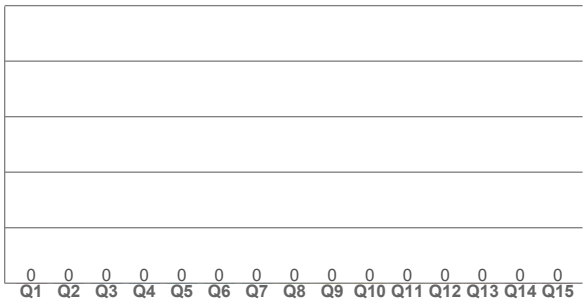
TM30 C values, 16 binned values out of total of 99 C values

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	0,200	0,726	0,071	0,385	NaN

TM30 details

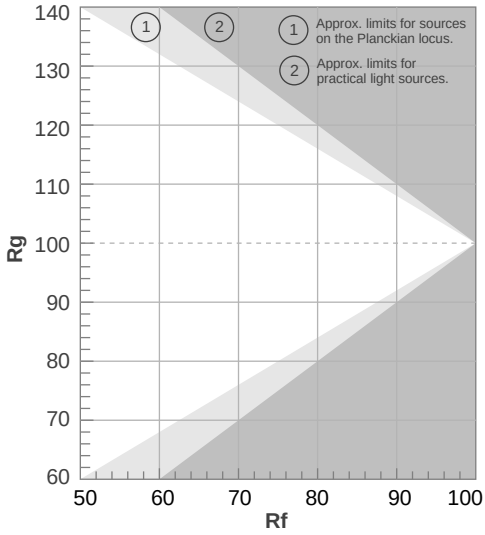
Rf 0,0

Fidelity index Rf

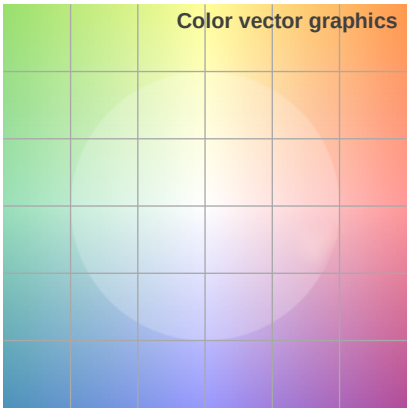
Rg 0,0

Gammut index Rg

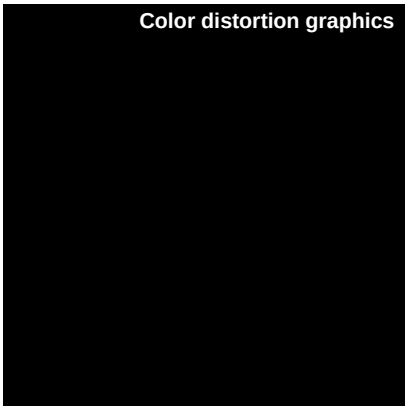
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%

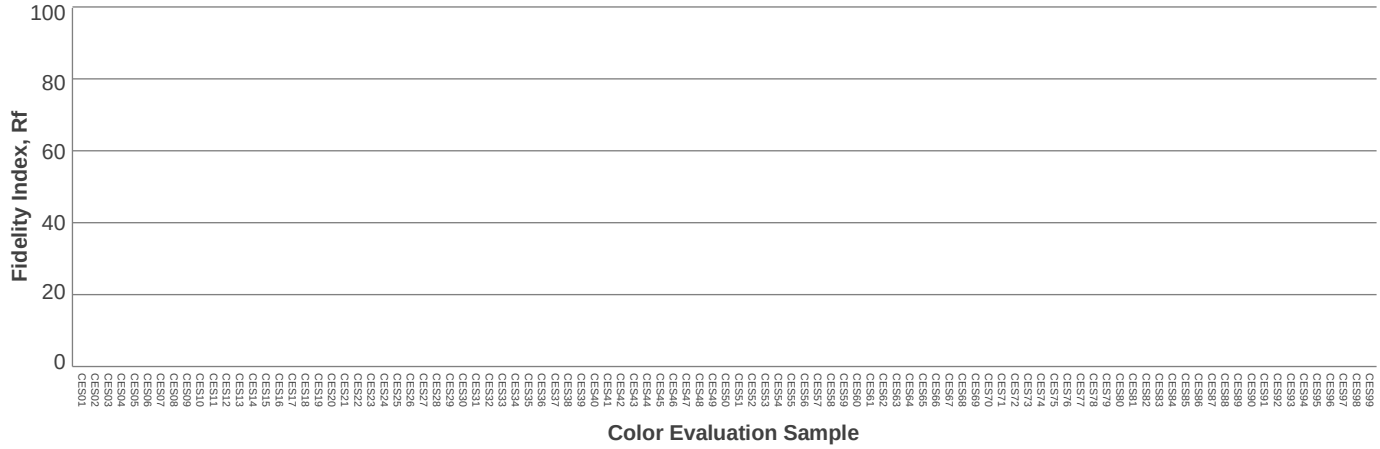




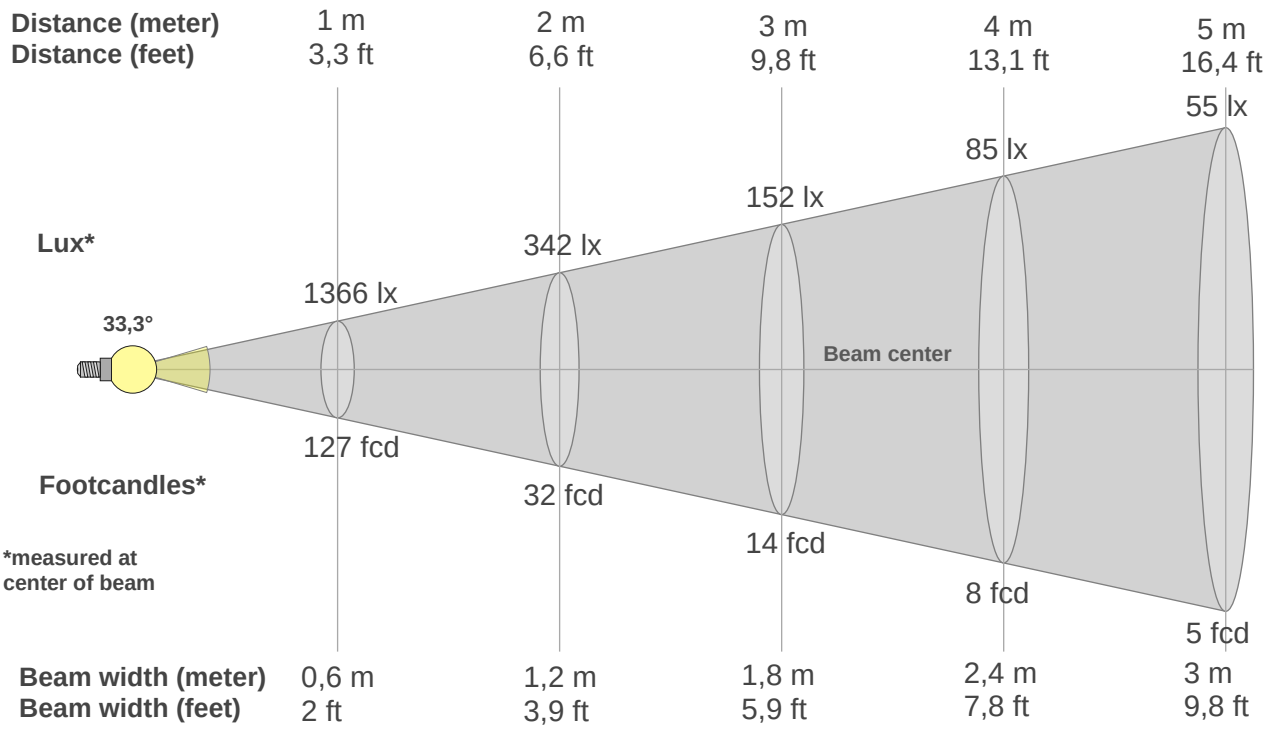








Beam details



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
1366lx	342lx	152lx	85lx	55lx	38lx	28lx	21lx	17lx	14lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx
126,9fc	31,7fcd	14,1fcd	7,9fcd	5,1fcd	3,5fcd	2,6fcd	2fcd	1,6fcd	1,3fcd	1fcd	0,9fcd	0,8fcd	0,6fcd	0,6fcd	0,5fcd	0,4fcd	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°
1366	1314	1192	1035	859	677	509	375	271	200	154	129	110	98	87	86	87	84	79	80
100%	96%	87%	76%	63%	50%	37%	27%	20%	15%	11%	9%	8%	7%	6%	6%	6%	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°
1366	1363	1367	1372	1379	1386	1395	1400	1405	1405	1397	1379	1350	1307	1250	1179	1099	1006	907	811
100%	100%	100%	100%	101%	101%	102%	102%	103%	103%	102%	101%	99%	96%	91%	86%	80%	74%	66%	59%

Intensities in 180° c-plane

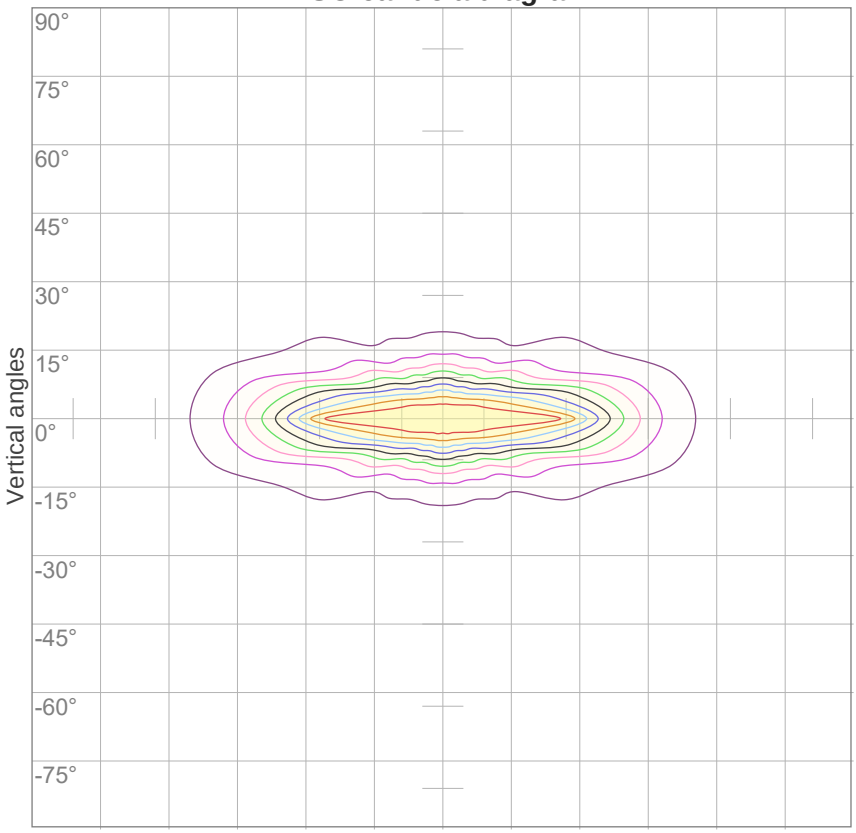
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1366	1314	1192	1035	859	677	509	375	271	200	154	129	110	98	87	86	87	84	79	80
100%	96%	87%	76%	63%	50%	37%	27%	20%	15%	11%	9%	8%	7%	6%	6%	6%	6%	6%	6%

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°
1366	1363	1367	1372	1379	1386	1395	1400	1405	1405	1397	1379	1350	1307	1250	1179	1099	1006	907	811
100%	100%	100%	100%	101%	101%	102%	102%	103%	103%	102%	101%	99%	96%	91%	86%	80%	74%	66%	59%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
33,3°	**65,2°**	**158,3°**	**85,1%**	**70,7%**

ISO candela diagram



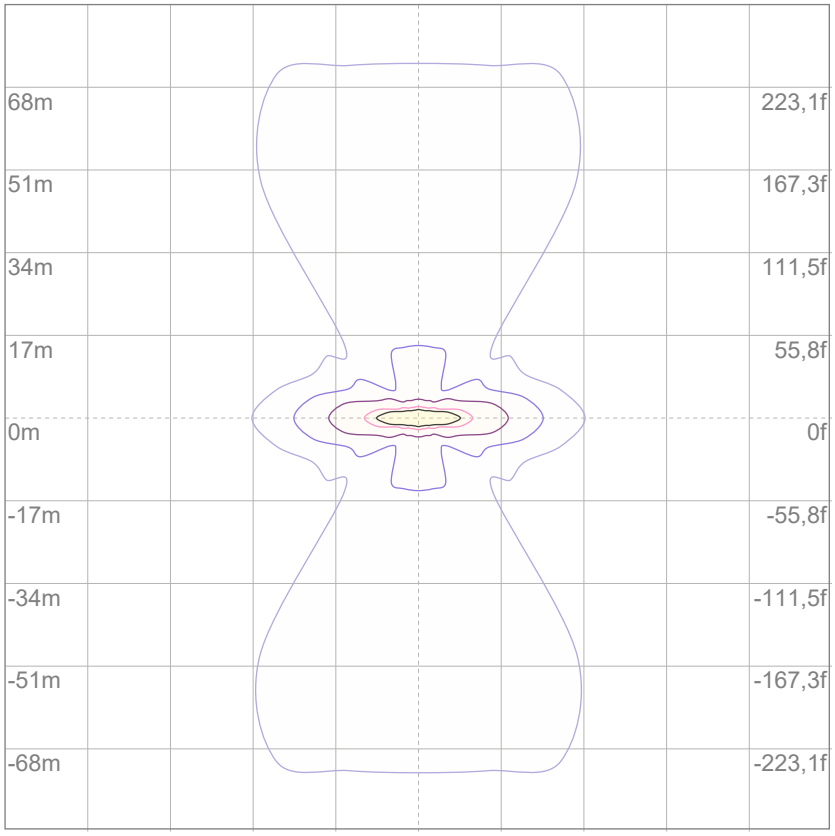
10%	137 cd
20%	273 cd
30%	410 cd
40%	547 cd
50%	683 cd
60%	820 cd
70%	956 cd
80%	1093 cd
90%	1230 cd

Conditions:

Number of c-planes: 16

Candela at center: 1366 cd

ISO lux diagram



Mounting height: 10 meters (33 feet)

3%	0,410 lx
5%	0,683 lx
10%	1,37 lx
30%	4,10 lx
50%	6,83 lx

Conditions:

Number of c-planes: 16

Lux at center: 13,7 lx

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

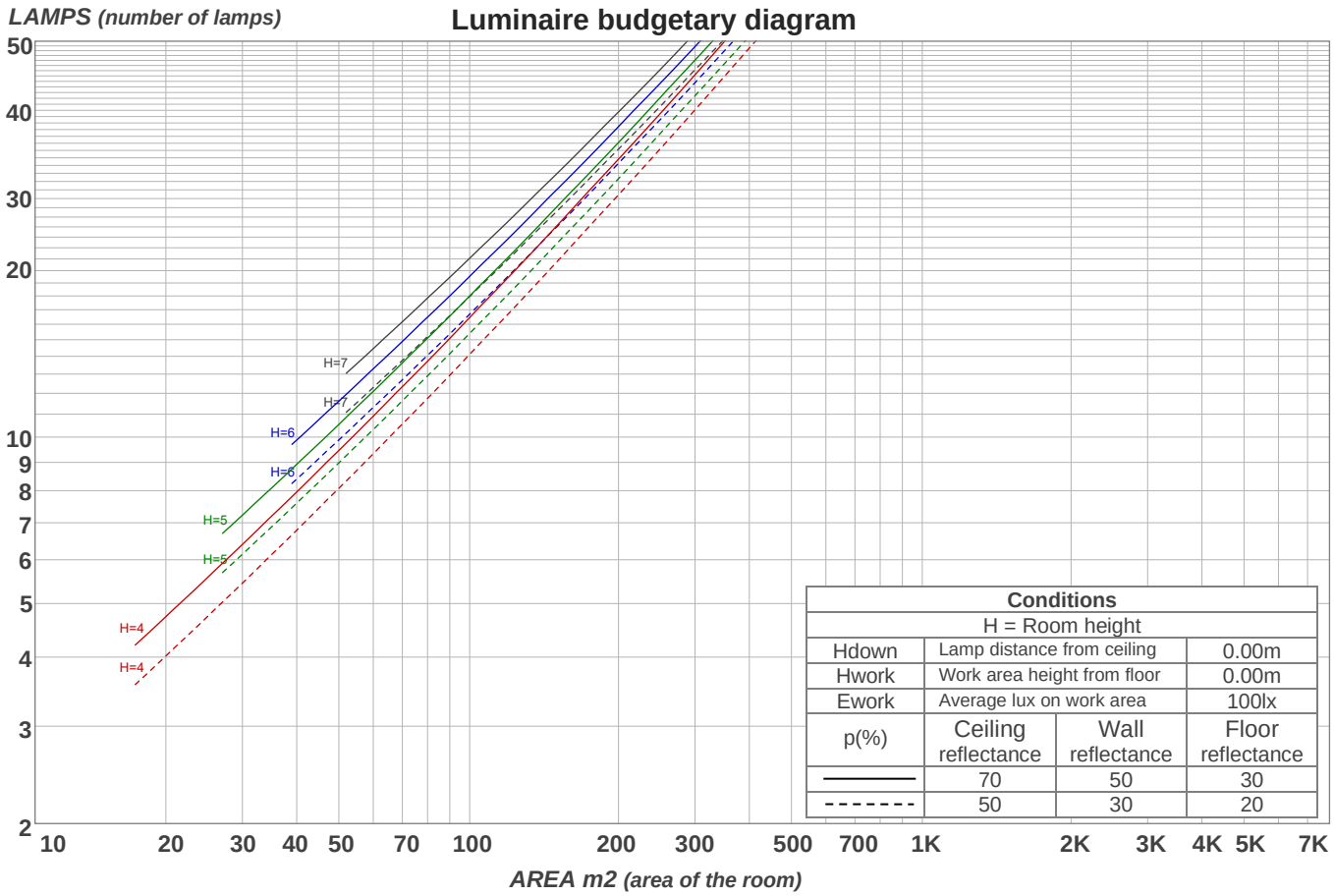
Glare Evaluation According to UGR

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	15,5	16,4	15,6	16,7	16,9	22,9	23,8	23,0	24,1	24,3
	3H	17,7	18,8	18,1	19,0	19,2	23,3	24,4	23,7	24,6	24,8
	4H	19,2	20,2	19,6	20,5	20,7	23,5	24,5	23,9	24,8	25,0
	6H	20,4	21,3	20,7	21,5	21,9	23,7	24,6	24,0	24,9	25,2
	8H	20,8	21,6	21,1	21,9	22,3	23,7	24,6	24,1	24,9	25,3
	12H	21,0	21,8	21,4	22,2	22,6	23,7	24,5	24,1	24,9	25,3
4H	2H	16,0	17,0	16,4	17,2	17,5	22,6	23,6	23,0	23,9	24,1
	3H	18,7	19,5	19,0	19,8	20,3	23,3	24,1	23,7	24,5	24,9
	4H	20,2	21,0	20,7	21,4	21,9	23,5	24,3	23,9	24,7	25,2
	6H	21,6	22,3	22,1	22,7	23,0	23,7	24,5	24,2	24,8	25,2
	8H	22,0	22,7	22,5	23,1	23,5	23,8	24,5	24,3	24,8	25,2
	12H	22,3	22,9	22,8	23,3	23,8	23,8	24,4	24,3	24,8	25,3
8H	4H	20,6	21,3	21,1	21,6	22,0	23,6	24,2	24,1	24,6	25,0
	6H	22,1	22,7	22,7	23,1	23,7	23,9	24,4	24,4	24,9	25,4
	8H	22,8	23,2	23,3	23,8	24,4	24,0	24,5	24,6	25,0	25,6
	12H	23,3	23,6	23,8	24,1	24,8	24,2	24,5	24,8	25,0	25,7
12H	4H	20,6	21,2	21,1	21,6	22,0	23,6	24,1	24,0	24,5	25,0
	6H	22,3	22,7	22,8	23,2	23,9	24,0	24,4	24,5	24,9	25,6
	8H	23,0	23,3	23,5	23,8	24,5	24,1	24,5	24,7	25,0	25,6
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					3,1 / -2,3				
S = 2.0H		0,3 / -0,3					4,6 / -3,0				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 912 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	102	99	107	104	100	97	99	96	94	95	93	91	91	90	88	86
2	102	95	90	85	100	93	88	84	90	86	82	87	83	80	83	81	78	76
3	95	87	80	75	93	85	79	74	82	77	72	79	75	71	77	73	70	68
4	89	79	72	67	87	78	71	66	76	70	65	73	68	64	71	67	63	61
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	66	62	58	56
6	79	68	60	55	77	67	60	55	65	59	54	63	58	54	62	57	53	52
7	74	63	56	51	73	62	56	51	61	55	50	60	54	50	58	53	49	48
8	71	59	52	47	69	59	52	47	57	51	47	56	50	46	55	50	46	45
9	67	56	49	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39

Luminaire budgetary diagram

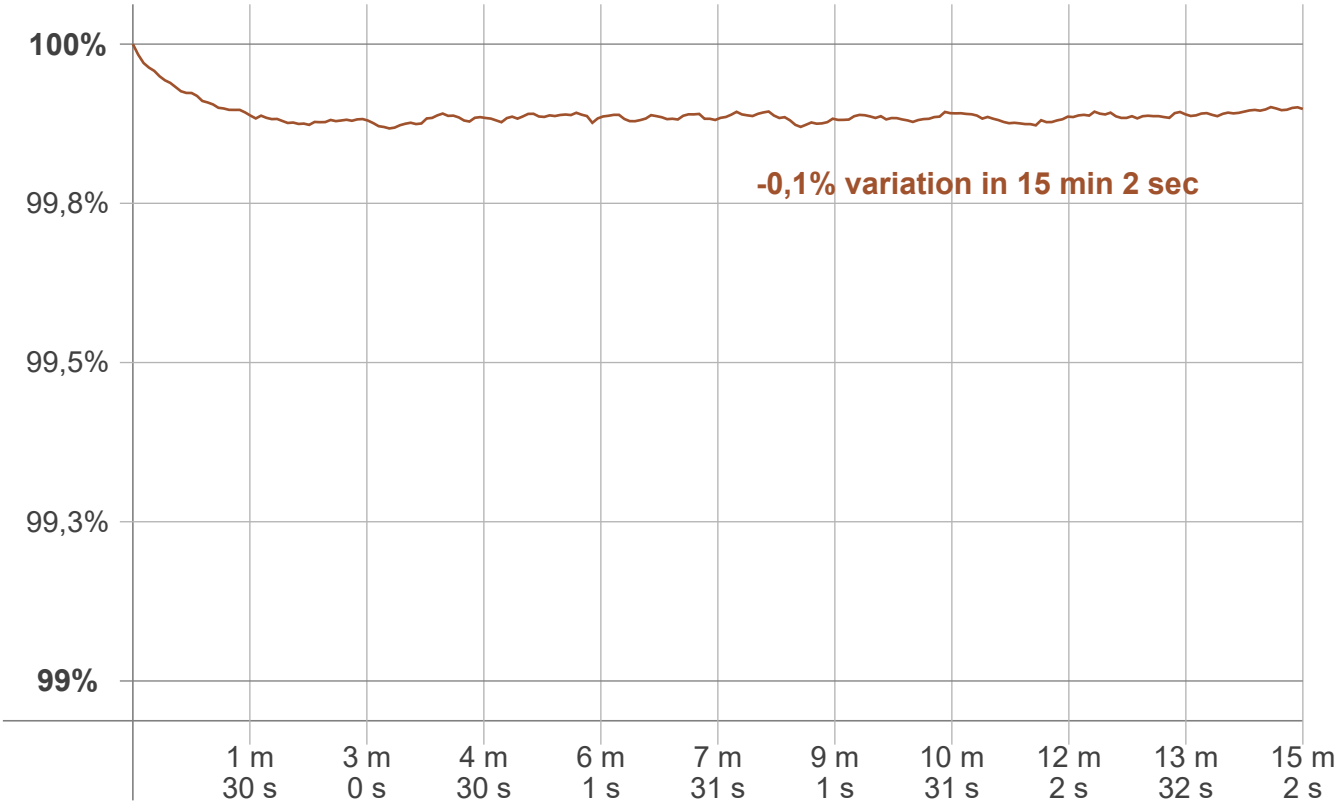


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
107 lm	181 lm	161 lm	137 lm	108 lm	80,9 lm	55,0 lm	43,8 lm	27,6 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
4,27 lm	4,04 lm	0,904 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:	**Lamp stabilized in 15 min 2 sec**
Warmup variation	**-0,1%**

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
913 lm	-1 lm	912 lm