Light efficiency:

126 Lumen/Watt

Light quality:

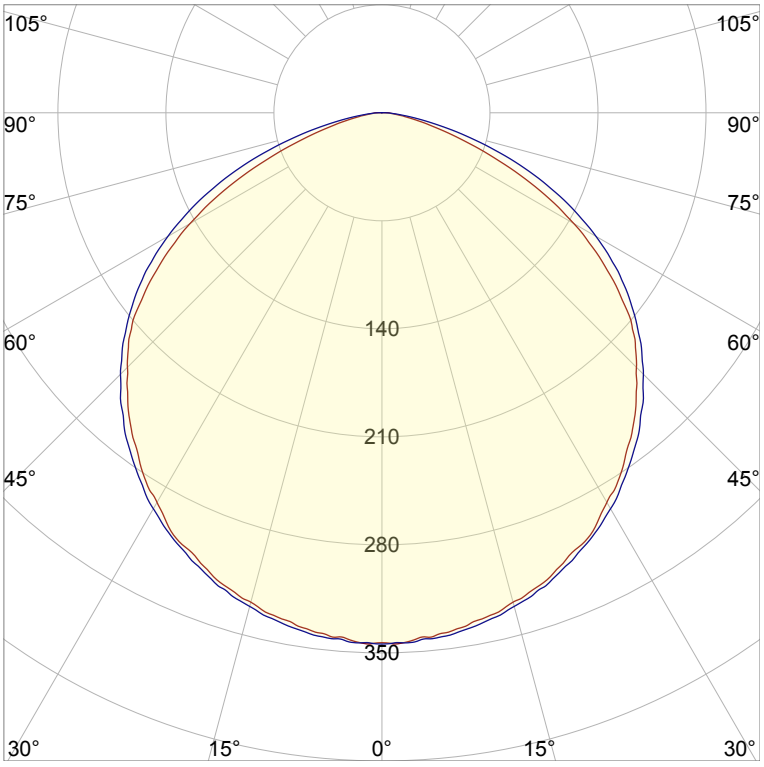
CRI: 0,0

Color temperature:

0 K

Output: 969 lm
Peak: 344 cd

Power: 7,7 W
PF: 1,0



Product name:
Defiant-0508-XXG-CFT

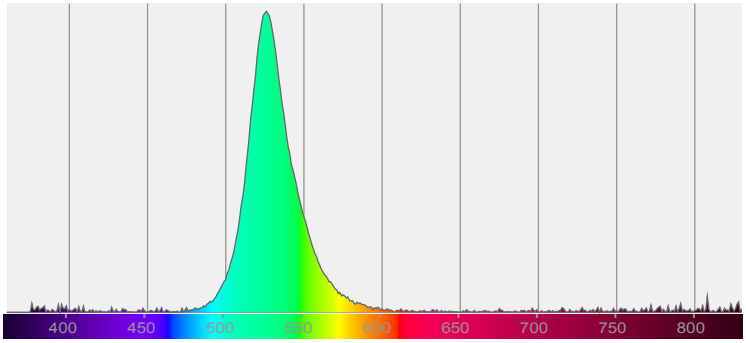
Item number:
FLNP/L22A0508/XXG/CFT

Date and time:
06.07.2020 10:19:05

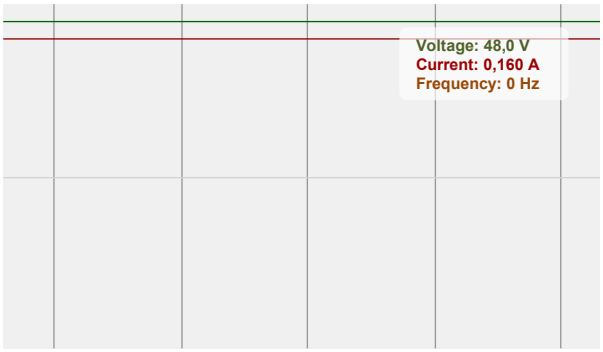
Description:
Rank: R2G2B4/RC2GA2BA5/A
Toleranzen:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 K
CRI +/-0,7
Angular Resolution 1 Grad Step
Last Calibration 20.05.2020
Pruefer:
Peter Ulrich
Pruefort:
Lichtlabor
Gaustrasse 13
55411 Bingen am Rhein

CIE 1931
x: 0,200
y: 0,729

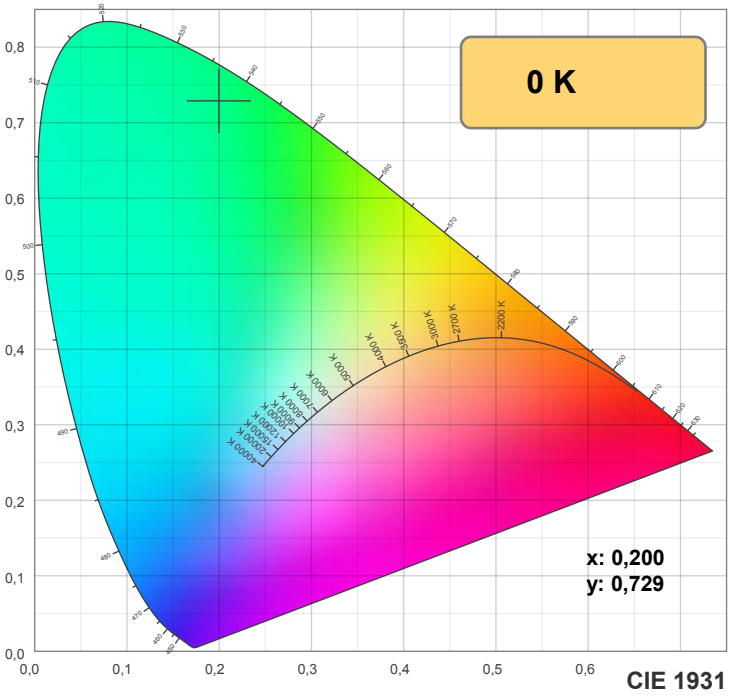
Spectra

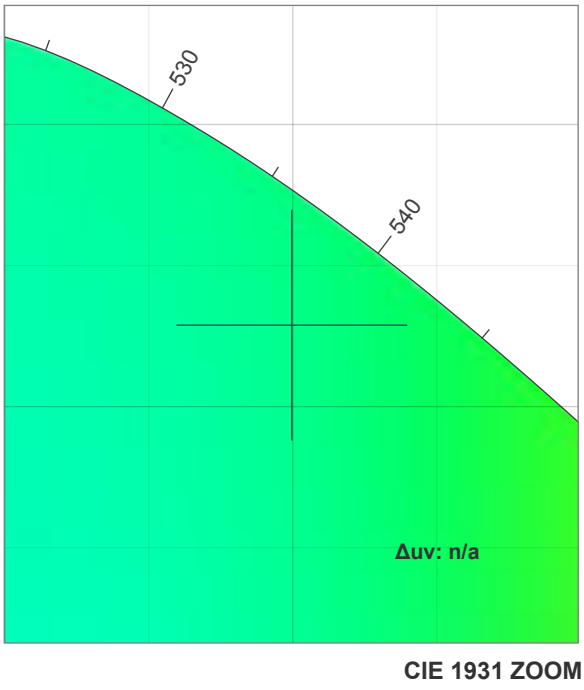


Power

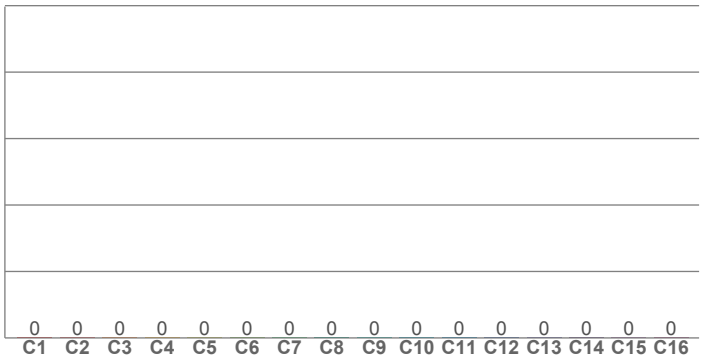


Color details

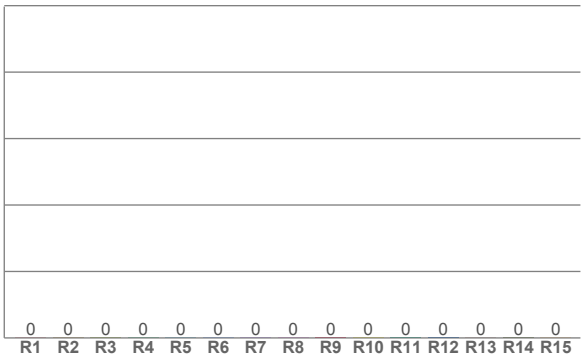




TM30: 0,0



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

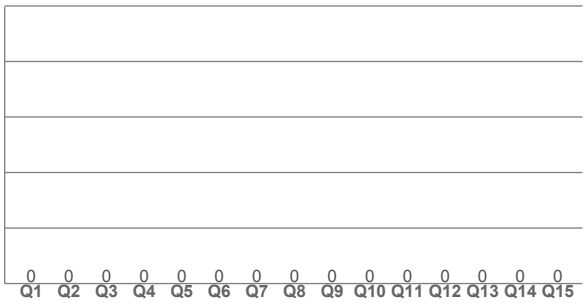
TM30 C values, 16 binned values out of total of 99 C values

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	0,729	0,070	0,385	n/a

TM30 details

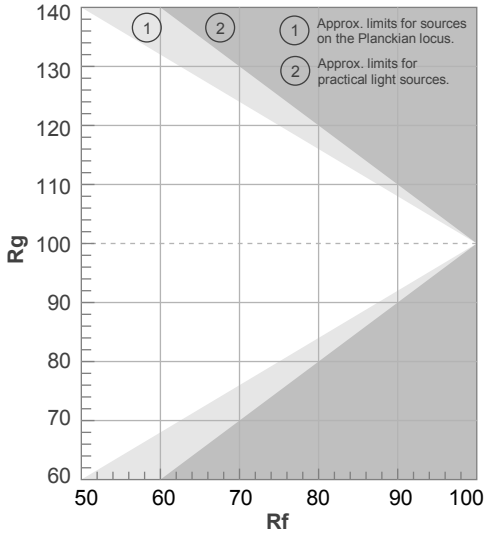
Rf 0,0

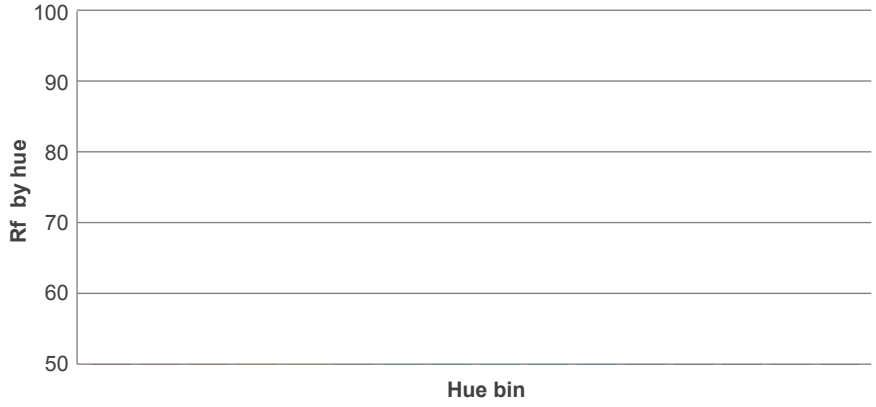
Fidelity index Rf

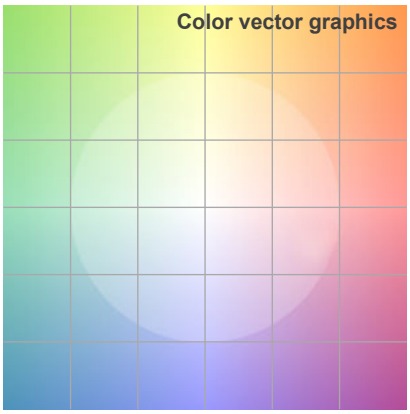
Rg 0,0

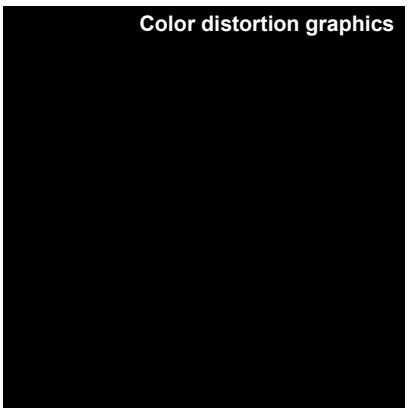
Gammut index Rg

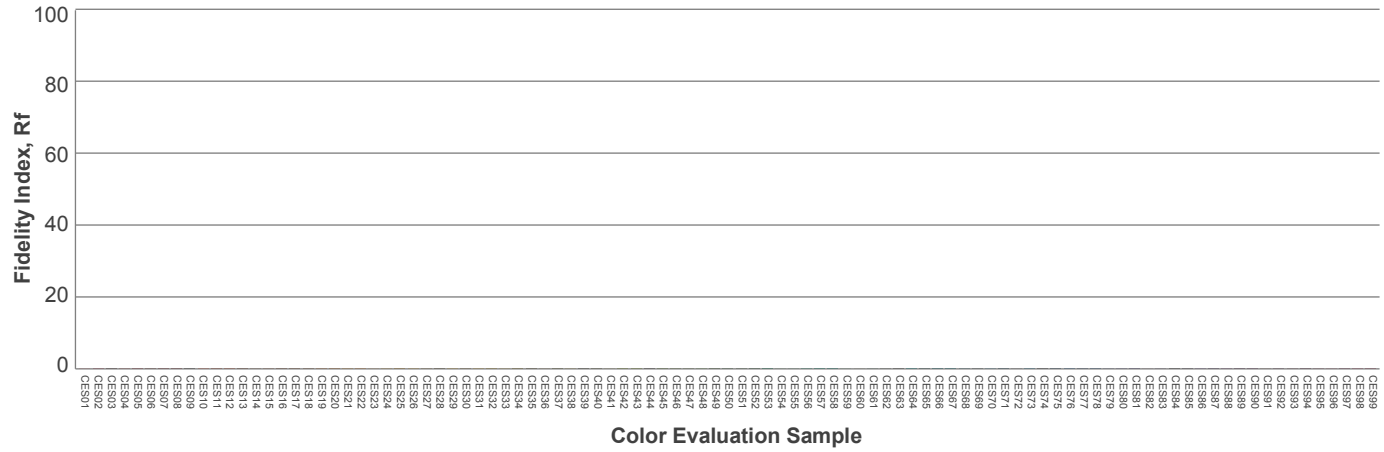
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



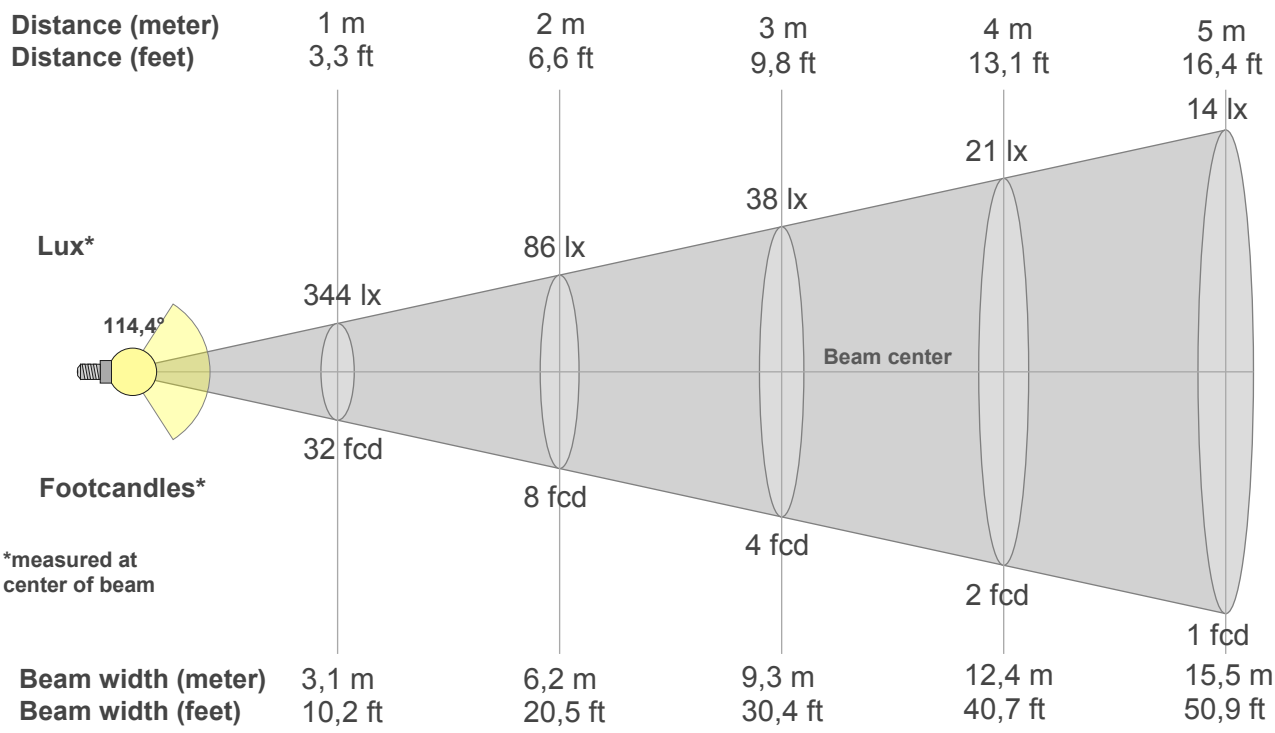








Beam details



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
344lx	86lx	38lx	21lx	14lx	10lx	7lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx
31,9fcd	8fcd	3,5fcd	2fcd	1,3fcd	0,9fcd	0,7fcd	0,5fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	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°
344	341	336	328	320	308	292	274	255	233	211	178	144	104	65	34	16	7	2	2
100%	99%	98%	96%	93%	90%	85%	80%	74%	68%	61%	52%	42%	30%	19%	10%	5%	2%	1%	1%

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°
344	342	338	331	322	310	296	279	260	240	216	190	160	126	90	54	26	9	2	0
100%	100%	99%	96%	94%	90%	86%	81%	76%	70%	63%	55%	47%	37%	26%	16%	7%	3%	0%	0%

Intensities in 180° c-plane

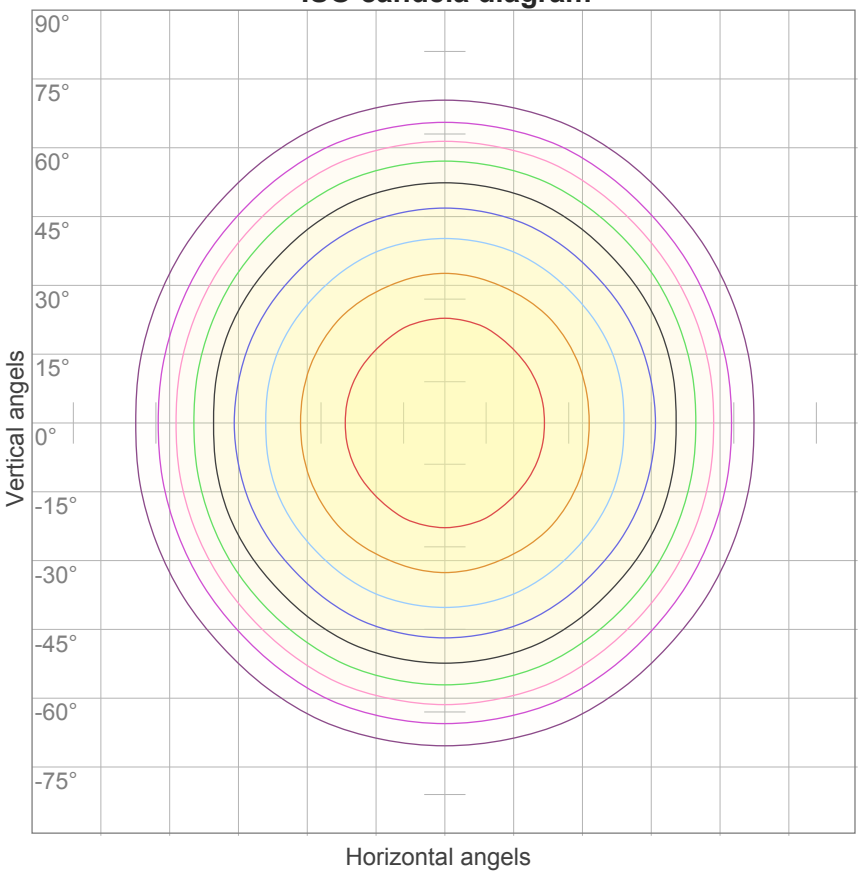
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
344	341	336	328	320	308	292	274	255	233	211	178	144	104	65	34	16	7	2	2
100%	99%	98%	96%	93%	90%	85%	80%	74%	68%	61%	52%	42%	30%	19%	10%	5%	2%	1%	1%

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°
344	342	338	331	322	310	296	279	260	240	216	190	160	126	90	54	26	9	2	0
100%	100%	99%	96%	94%	90%	86%	81%	76%	70%	63%	55%	47%	37%	26%	16%	7%	3%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114,4°	**153,4°**	**169,8°**	**81,4%**	**55,0%**

ISO candela diagram



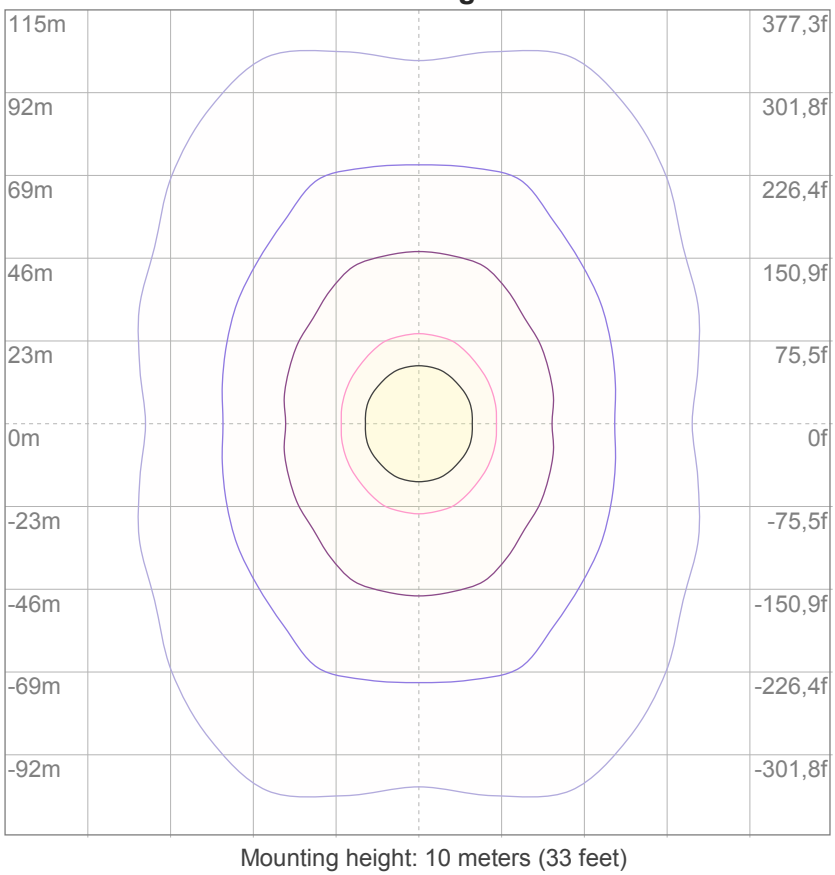
10%	34 cd
20%	69 cd
30%	103 cd
40%	137 cd
50%	172 cd
60%	206 cd
70%	240 cd
80%	275 cd
90%	309 cd

Conditions:

Number of c-planes: 16

Candela at center: 344 cd

ISO lux diagram



3%	0,103 lx
5%	0,172 lx
10%	0,344 lx
30%	1,03 lx
50%	1,72 lx

Conditions:

Number of c-planes: 16

Lux at center: 3,44 lx

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

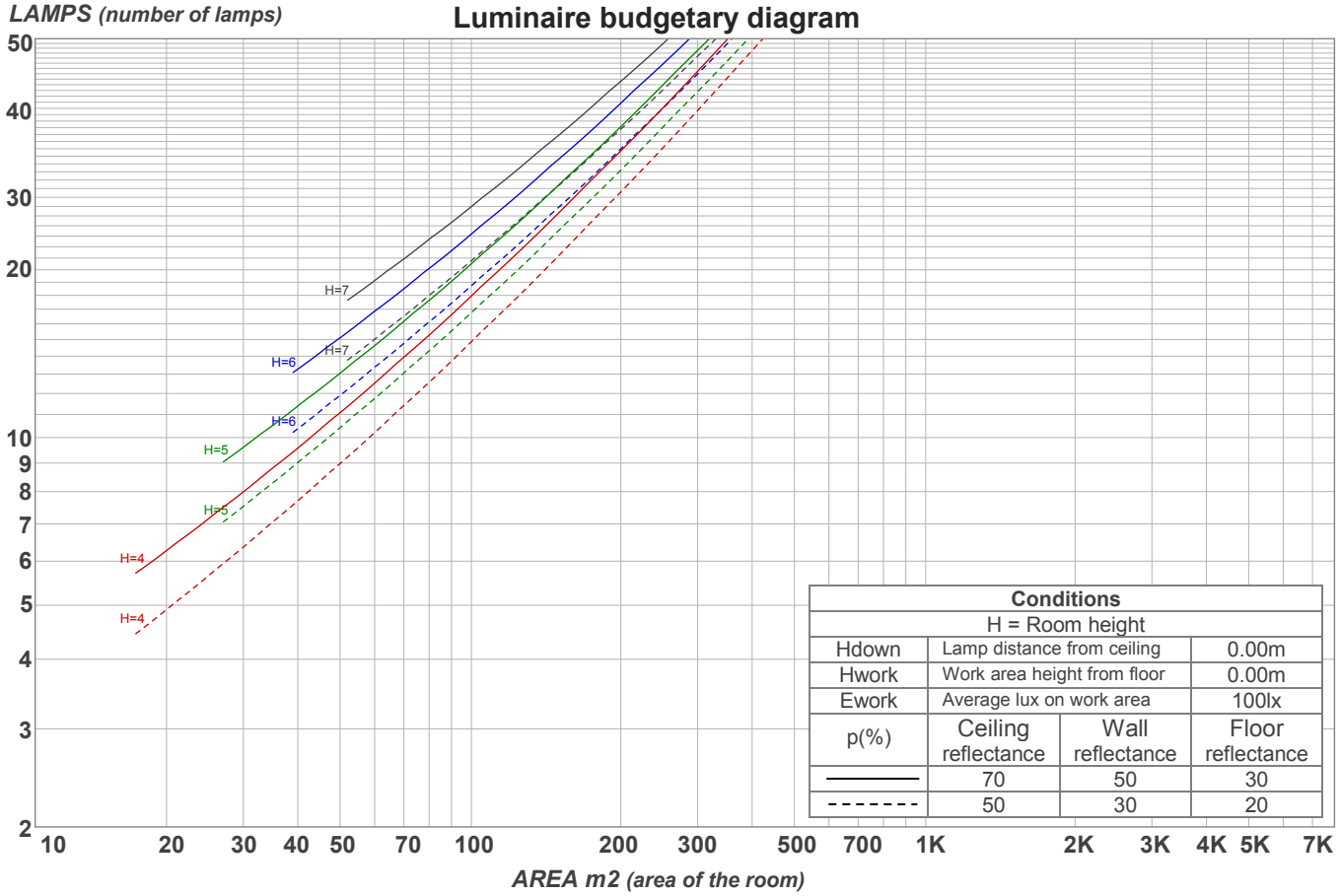
Glare Evaluation According to UGR

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	23,3	24,5	23,6	24,8	25,1	24,2	25,4	24,5	25,7	26,0
	3H	24,1	25,3	24,5	25,6	25,8	25,5	26,7	25,9	27,0	27,2
	4H	24,2	25,4	24,6	25,7	25,9	25,9	27,1	26,3	27,4	27,6
	6H	24,3	25,4	24,6	25,6	26,0	26,2	27,2	26,5	27,5	27,9
	8H	24,3	25,3	24,6	25,6	26,0	26,2	27,2	26,6	27,5	27,9
	12H	24,3	25,2	24,6	25,6	26,0	26,2	27,2	26,6	27,5	27,9
4H	2H	23,9	25,1	24,3	25,3	25,6	24,6	25,8	25,0	26,1	26,3
	3H	24,9	25,8	25,2	26,2	26,6	26,1	27,1	26,5	27,4	27,9
	4H	25,0	25,9	25,4	26,3	26,8	26,6	27,4	27,0	27,9	28,4
	6H	25,1	25,9	25,6	26,3	26,6	26,8	27,7	27,3	28,0	28,4
	8H	25,1	25,8	25,6	26,2	26,6	26,9	27,6	27,4	28,0	28,4
	12H	25,1	25,7	25,5	26,1	26,6	26,9	27,5	27,4	27,9	28,4
8H	4H	25,1	25,9	25,6	26,3	26,7	26,6	27,4	27,1	27,7	28,1
	6H	25,3	25,9	25,8	26,3	26,9	26,9	27,5	27,4	28,0	28,5
	8H	25,3	25,8	25,8	26,3	27,0	27,0	27,6	27,6	28,1	28,7
	12H	25,3	25,7	25,9	26,2	26,9	27,1	27,5	27,7	28,0	28,6
12H	4H	25,1	25,8	25,6	26,2	26,7	26,6	27,2	27,1	27,6	28,1
	6H	25,3	25,8	25,8	26,3	27,0	26,9	27,4	27,5	28,0	28,6
	8H	25,3	25,8	25,9	26,3	26,9	27,0	27,5	27,6	28,0	28,6
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,2					0,1 / -0,1				
S = 1.5H		0,4 / -0,7					0,2 / -0,4				
S = 2.0H		1,1 / -1,6					0,8 / -1,0				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 969 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	109	105	101	97	106	102	99	95	98	95	92	94	92	89	90	88	87	84
2	100	92	85	79	97	90	84	78	86	81	77	83	78	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	27	37	31	26	25

Luminaire budgetary diagram

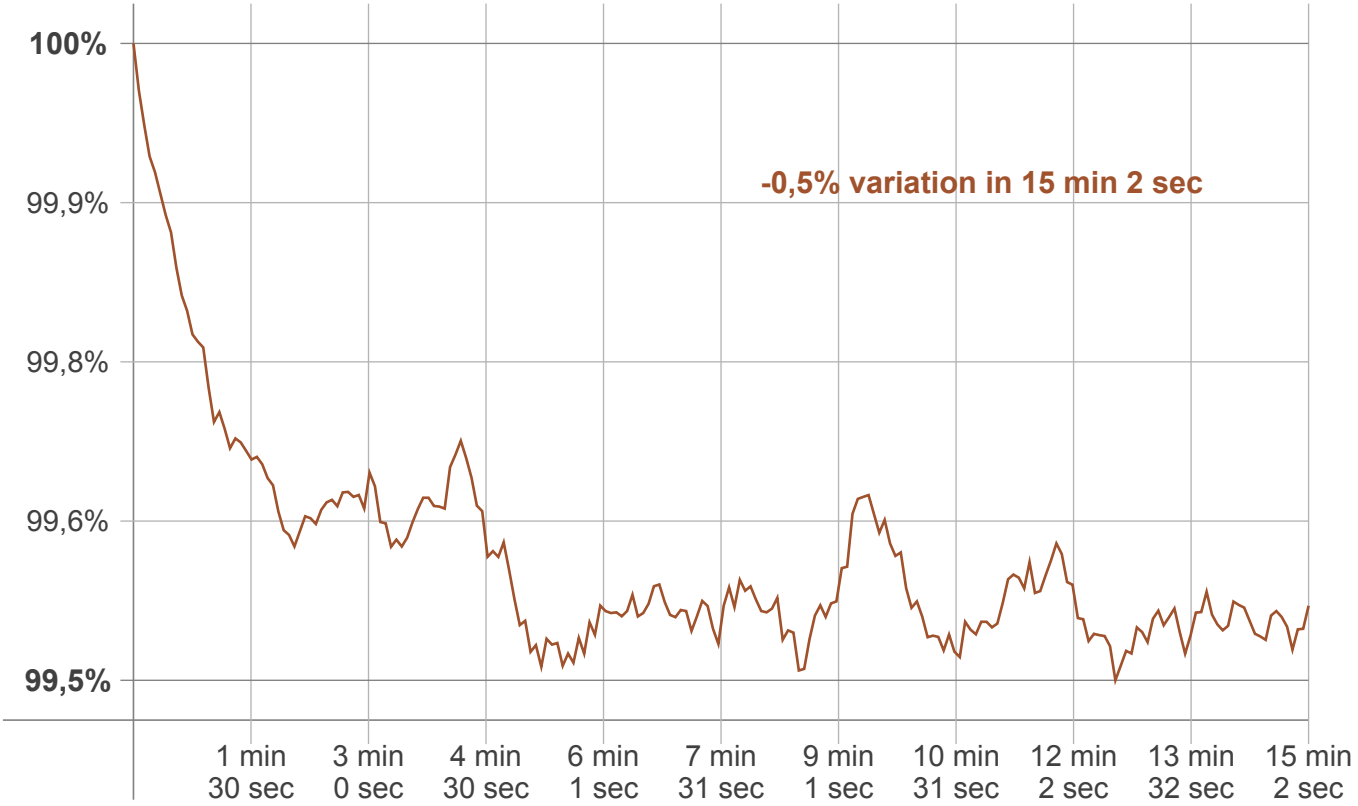


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
32,5 lm	93,1 lm	142 lm	173 lm	182 lm	165 lm	115 lm	48,3 lm	10,5 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1,62 lm	1,36 lm	1,02 lm	0,867 lm	0,614 lm	0,415 lm	0,306 lm	0,187 lm	0,063 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
972 lm	-3 lm	969 lm