Light efficiency:

57 Lumen/Watt

Light quality:

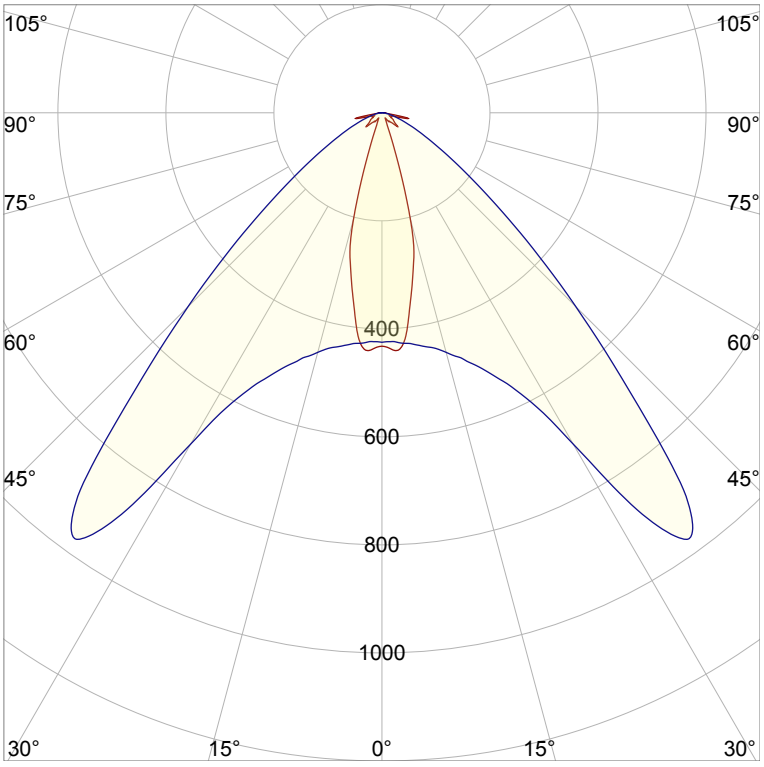
CRI: 0,0

Color temperature:

0 K

Output: 434 lm
Peak: 972 cd

Power: 7,7 W
PF: 1,0



Product name:
Defiant-0508-XXR-L3T

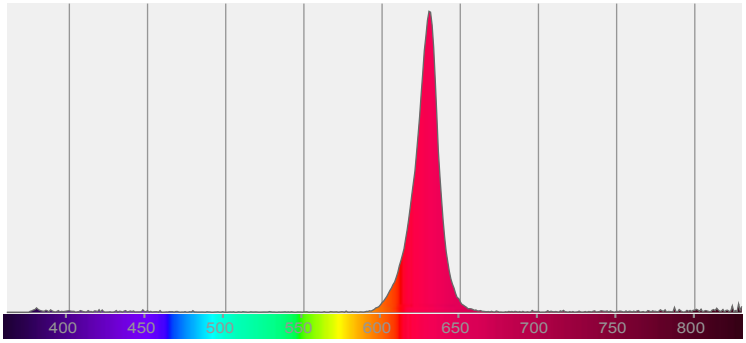
Item number:
FLNP/L22A0508/XXR/L3T

Date and time:
08.07.2020 09:31:24

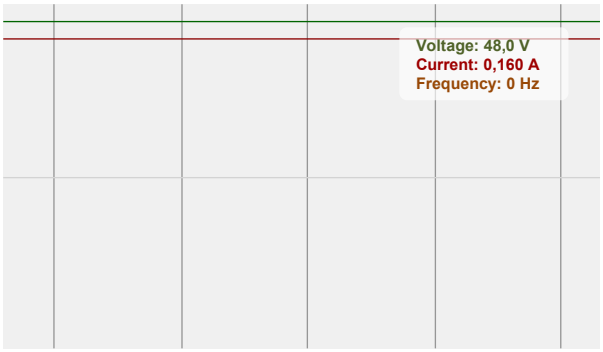
Description:
Rank: R2G2B4/RC2GA2BA5/A
Toleranzen:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 K
CRI +/-0,7
Angular Resolution 1 Grad Step
Last Calibration 20.05.2020
Pruefer:
Peter Ulrich
Pruefort:
Lichtlabor
Gaustrasse 13
55411 Bingen am Rhein

CIE 1931
x: 0,687
y: 0,301

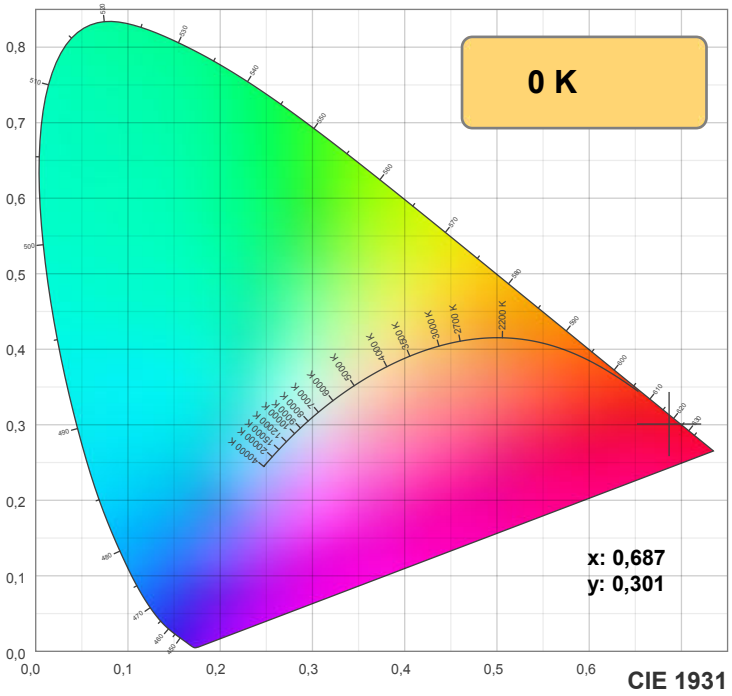
Spectra

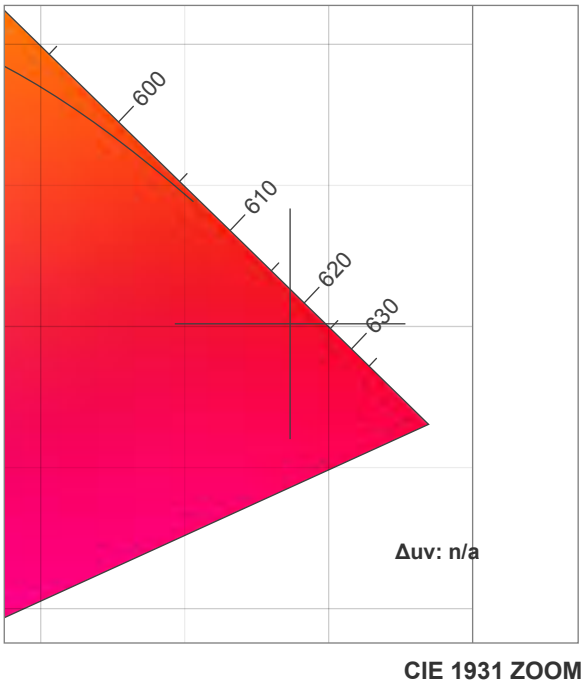


Power

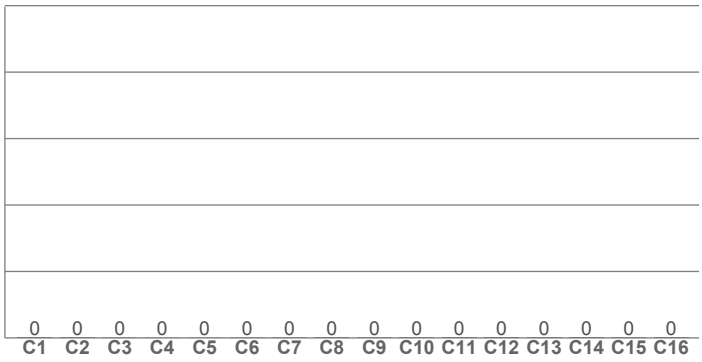


Color details

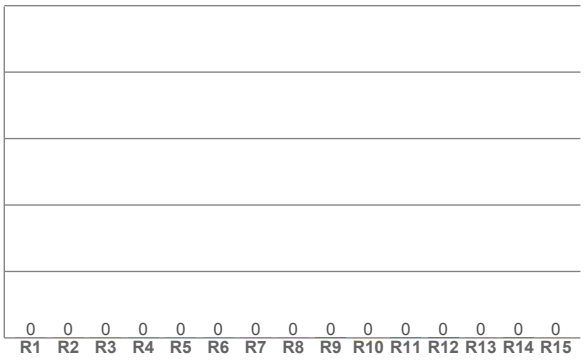




TM30: 0,0



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

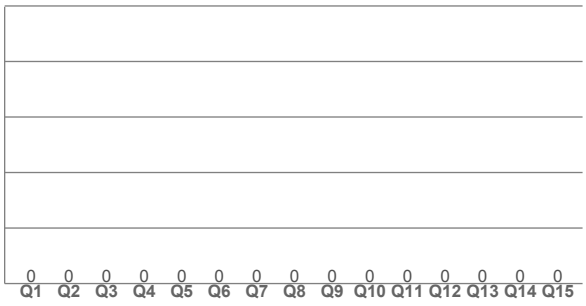
TM30 C values, 16 binned values out of total of 99 C values

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	0,687	0,301	0,524	0,345	n/a

TM30 details

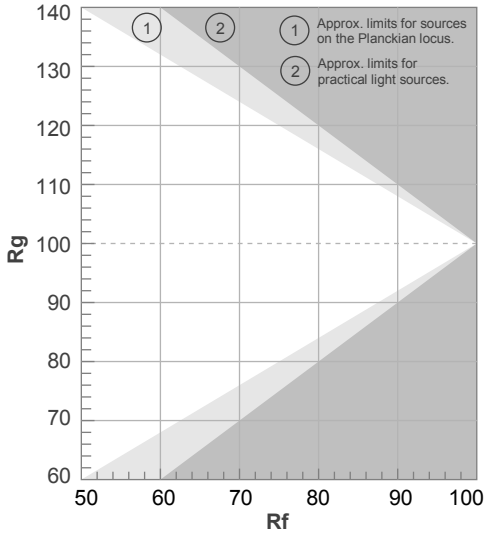
Rf 0,0

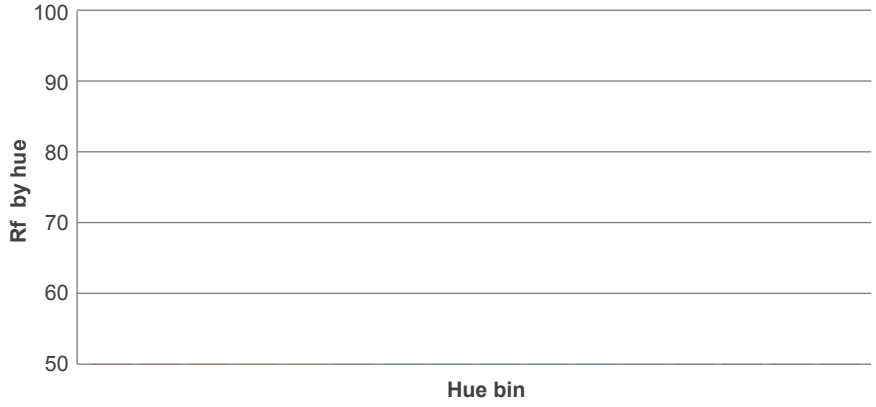
Fidelity index Rf

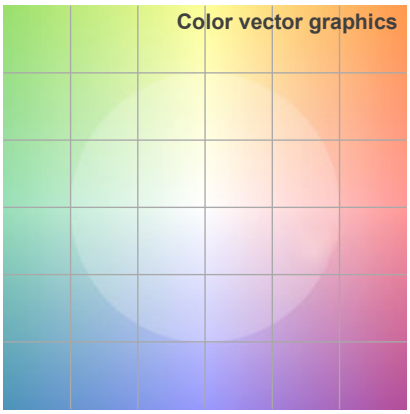
Rg 0,0

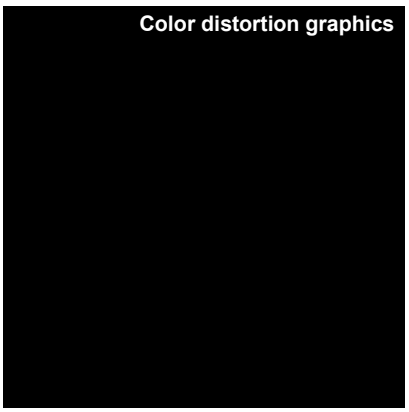
Gammut index Rg

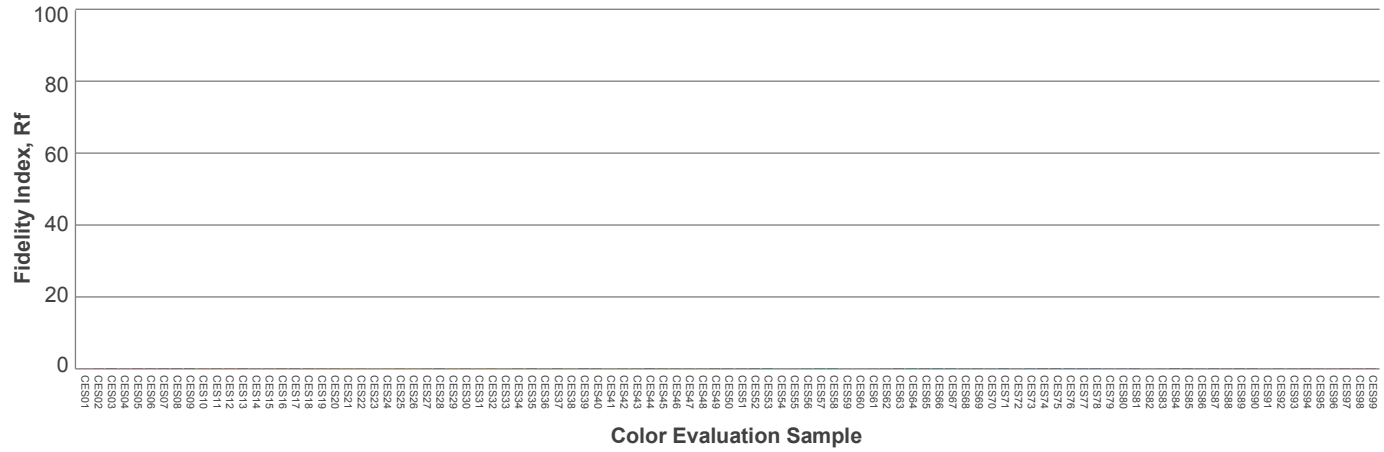
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



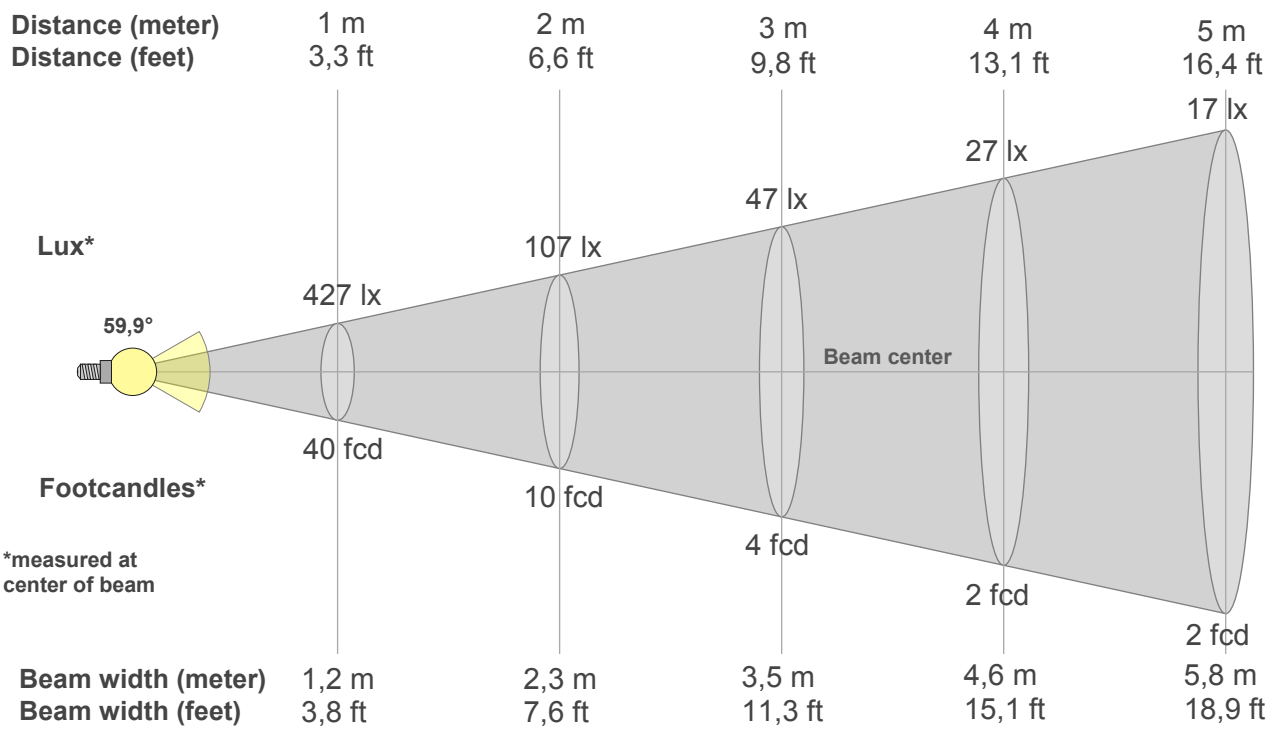








Beam details



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
427lx	107lx	47lx	27lx	17lx	12lx	9lx	7lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx
39,6fcd	9,9fcd	4,4fcd	2,5fcd	1,6fcd	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°
427	432	322	202	53	20	12	14	20	26	36	27	22	18	16	33	27	5	4	0
100%	101%	76%	47%	12%	5%	3%	3%	5%	6%	8%	6%	5%	4%	4%	8%	6%	1%	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°
427	428	439	459	495	556	709	959	804	508	306	179	105	63	36	19	9	4	1	0
100%	100%	103%	108%	116%	130%	166%	225%	188%	119%	72%	42%	25%	15%	8%	5%	2%	1%	0%	0%

Intensities in 180° c-plane

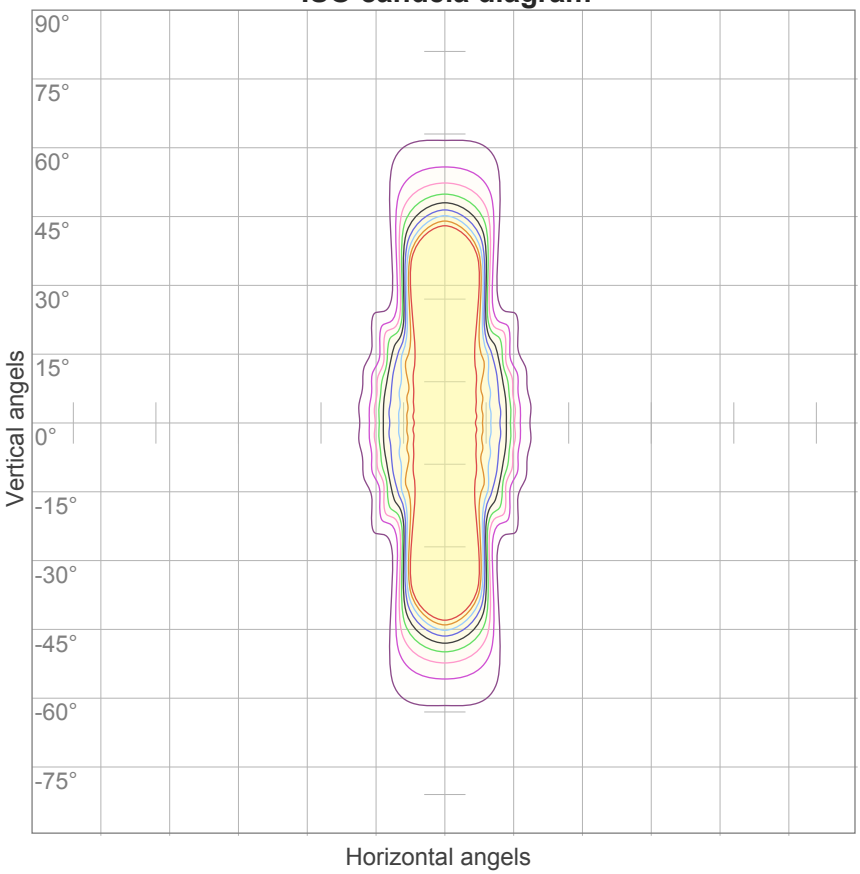
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
427	432	322	202	53	20	12	14	20	26	36	27	22	18	16	33	27	5	4	0
100%	101%	76%	47%	12%	5%	3%	3%	5%	6%	8%	6%	5%	4%	4%	8%	6%	1%	1%	0%

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°
427	428	439	459	495	556	709	959	804	508	306	179	105	63	36	19	9	4	1	0
100%	100%	103%	108%	116%	130%	166%	225%	188%	119%	72%	42%	25%	15%	8%	5%	2%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59,9°	**139,5°**	**155,2°**	**88,0%**	**72,5%**

ISO candela diagram



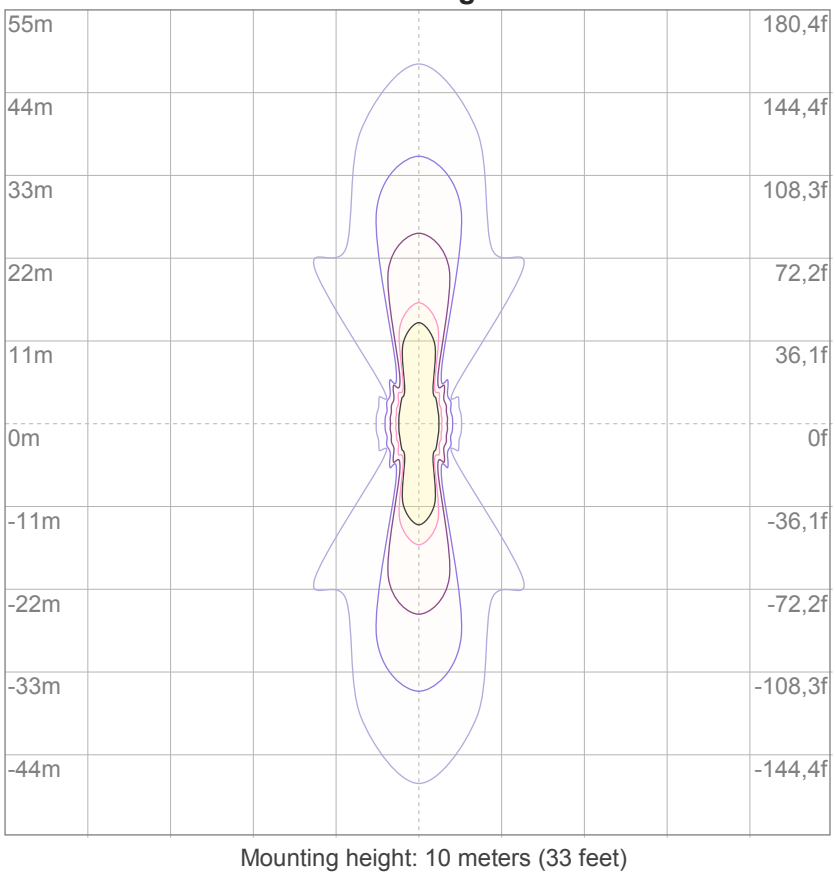
10%	43 cd
20%	85 cd
30%	128 cd
40%	171 cd
50%	213 cd
60%	256 cd
70%	299 cd
80%	341 cd
90%	384 cd

Conditions:

Number of c-planes: 16

Candela at center: 427 cd

ISO lux diagram



3%	0,128 lx
5%	0,213 lx
10%	0,427 lx
30%	1,28 lx
50%	2,13 lx

Conditions:

Number of c-planes: 16

Lux at center: 4,27 lx

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

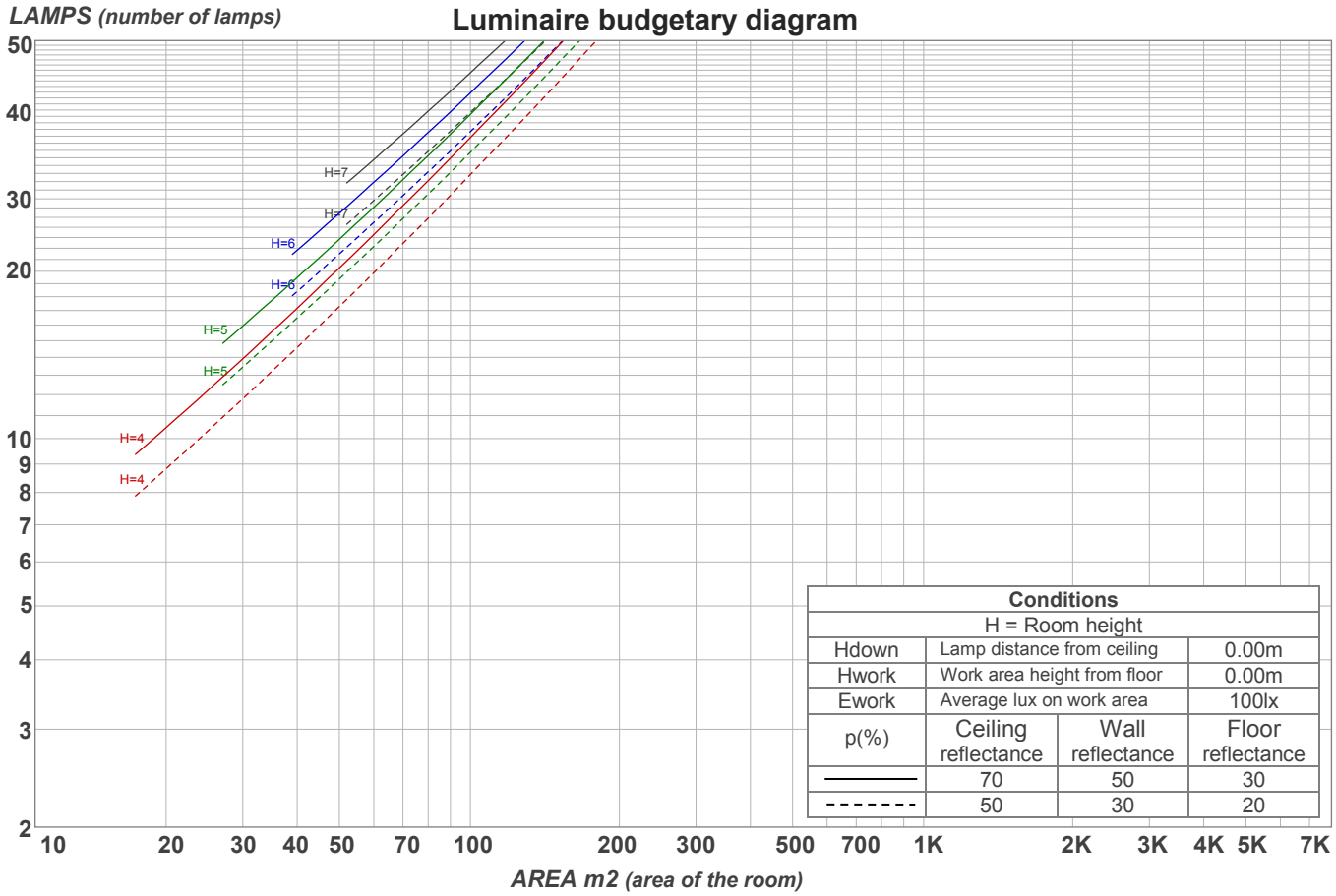
Glare Evaluation According to UGR

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	11,2	12,2	11,4	12,5	12,7	23,4	24,4	23,6	24,6	24,8
	3H	12,7	13,7	13,1	14,0	14,1	23,6	24,6	24,0	24,9	25,1
	4H	15,0	16,0	15,4	16,2	16,5	23,7	24,7	24,1	24,9	25,2
	6H	18,7	19,5	19,0	19,8	20,2	23,8	24,6	24,1	24,9	25,3
	8H	18,9	19,7	19,2	20,0	20,4	23,8	24,6	24,1	24,9	25,3
	12H	18,8	19,7	19,2	20,0	20,4	23,7	24,6	24,1	24,9	25,3
4H	2H	11,7	12,7	12,1	13,0	13,2	23,1	24,1	23,5	24,3	24,6
	3H	13,5	14,3	13,9	14,7	15,1	23,4	24,3	23,8	24,6	25,0
	4H	16,0	16,8	16,5	17,2	17,7	23,5	24,2	23,9	24,7	25,2
	6H	20,1	20,8	20,6	21,2	21,5	23,6	24,3	24,1	24,7	25,0
	8H	20,3	21,0	20,8	21,3	21,7	23,6	24,3	24,1	24,6	25,0
	12H	20,3	20,9	20,8	21,3	21,8	23,6	24,1	24,1	24,6	25,0
8H	4H	16,4	17,1	16,9	17,5	17,8	23,4	24,1	23,9	24,4	24,8
	6H	20,8	21,3	21,3	21,7	22,3	23,5	24,1	24,1	24,5	25,1
	8H	21,1	21,6	21,7	22,1	22,7	23,6	24,1	24,2	24,6	25,2
	12H	21,2	21,6	21,8	22,1	22,7	23,7	24,1	24,3	24,6	25,2
12H	4H	16,5	17,0	17,0	17,4	17,9	23,4	24,0	23,9	24,4	24,9
	6H	20,9	21,3	21,4	21,9	22,5	23,6	24,1	24,2	24,6	25,2
	8H	21,3	21,7	21,9	22,2	22,8	23,7	24,1	24,3	24,6	25,2
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,1					3,0 / -3,4				
S = 1.5H		0,1 / -0,2					5,3 / -4,7				
S = 2.0H		0,5 / -0,5					7,1 / -5,4				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 434 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	103	99	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	89	79	72	66	87	78	71	66	75	70	65	73	68	64	71	67	63	61
5	83	73	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51
7	74	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	48	42	39	37

Luminaire budgetary diagram

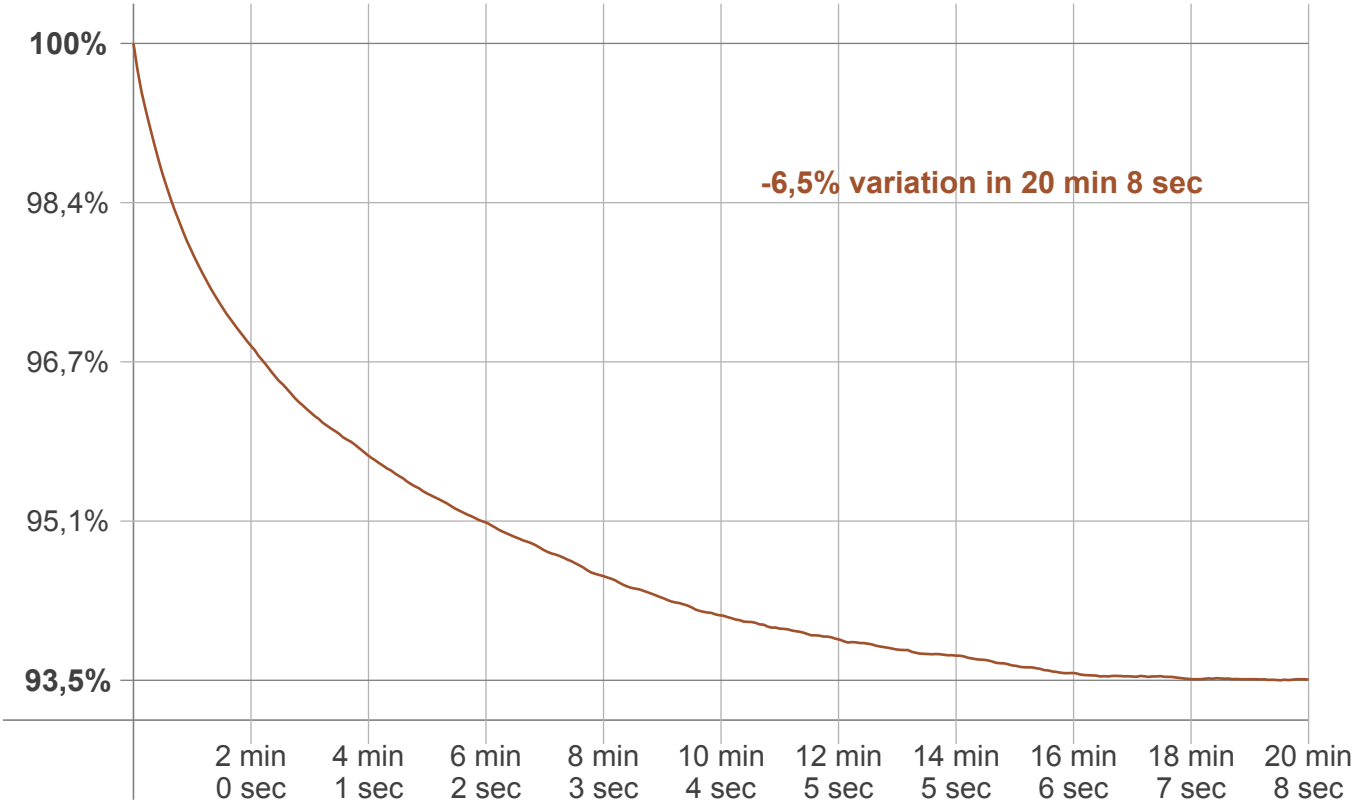


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
36,1 lm	87,0 lm	73,6 lm	82,3 lm	63,7 lm	39,3 lm	22,1 lm	17,6 lm	12,2 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,137 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:	**20 min 8 sec**
Warmup variation	**-6,5%**

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
460 lm	**-26 lm**	**434 lm**