

Light efficiency:

51 Lumen/Watt

Light quality:

CRI: 94,4

Color temperature:

6494 K

Output: 492 lm

Peak: 198 cd

Power: 9,6 W

PF: 1,0



Product name:

Pegasus-5_0510_965_Cover-Square-Grey

Item number:

FL/L2C/09E/0510/965/CSG

Date and time:

07.04.2025 13:51:13

Description:

Tolerances:

Lumen +/-4%

Candela +/-2,5%

Colour Temp +/-35 Kelvin

CRI +/-0,7

Angular Resolution: 1 Degree Step

Last Calibration 13.10.2023

Tester:

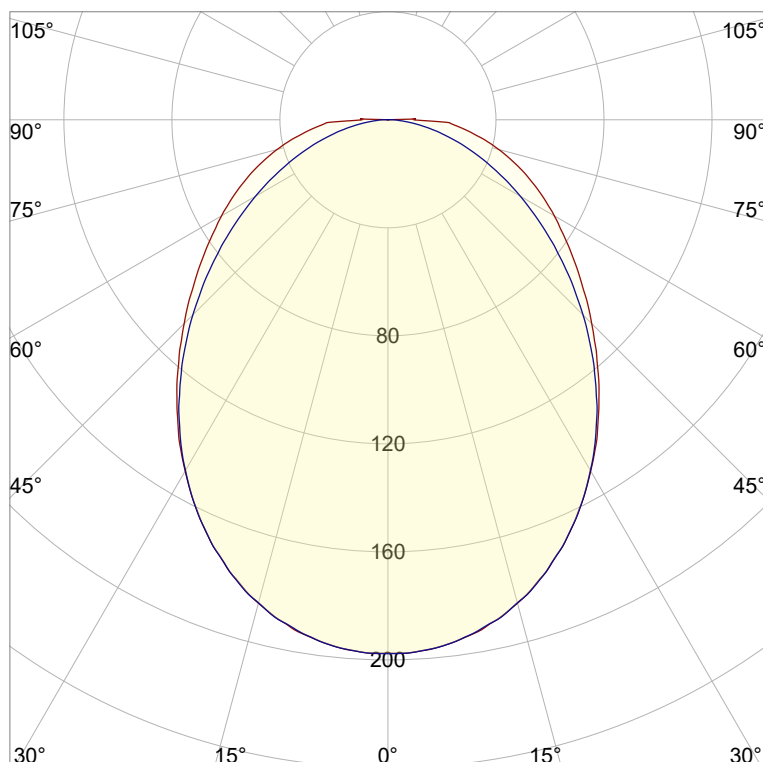
Peter Ulrich

Test Site:

Lichtlabor

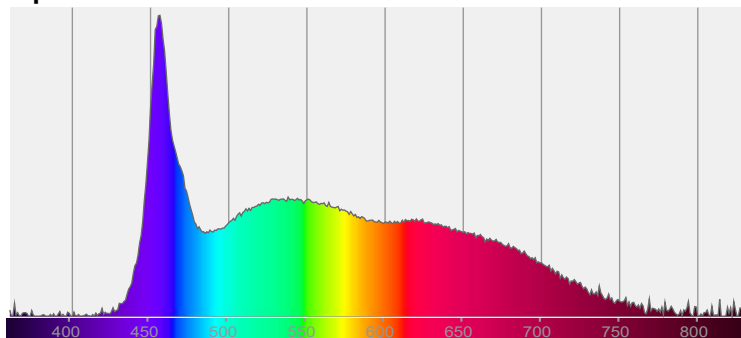
Gaustrasse 13

55411 Bingen am Rhein

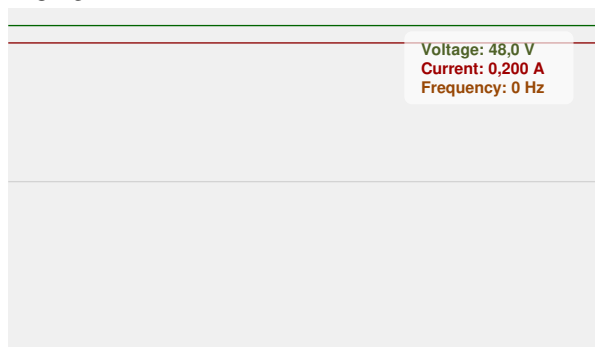


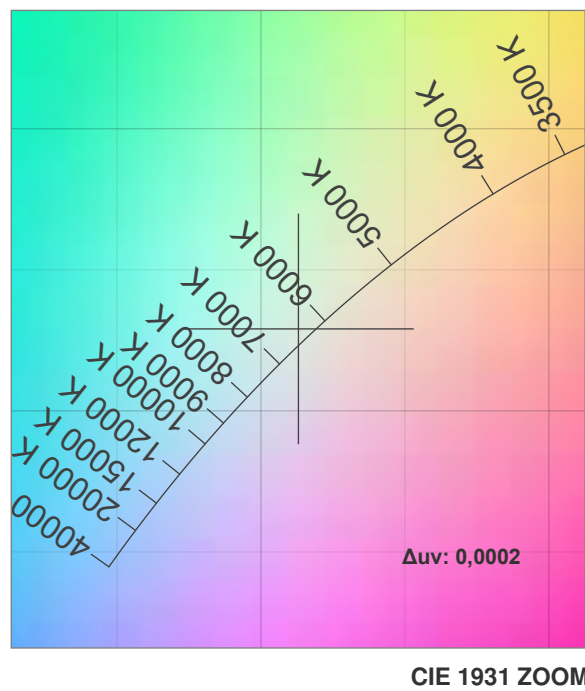
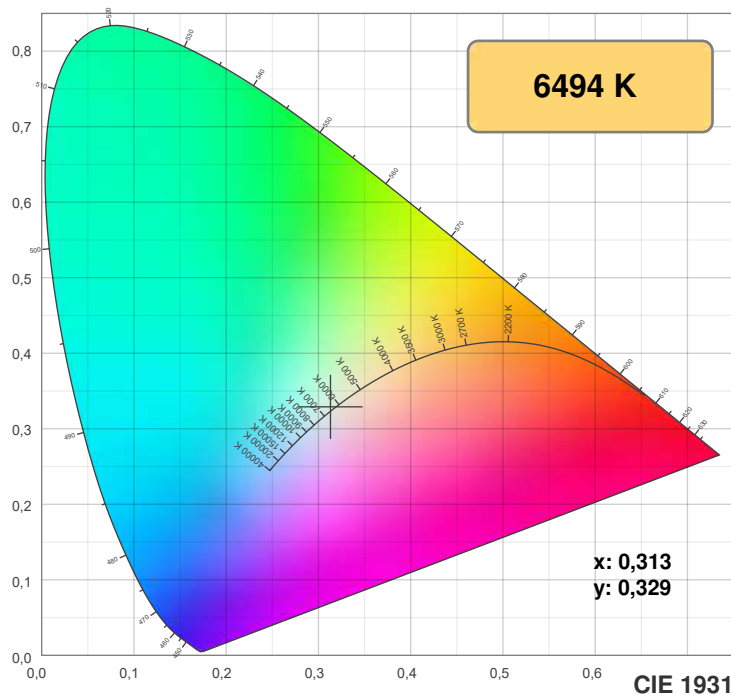
CIE 1931
x: 0,313
y: 0,329

Spectra

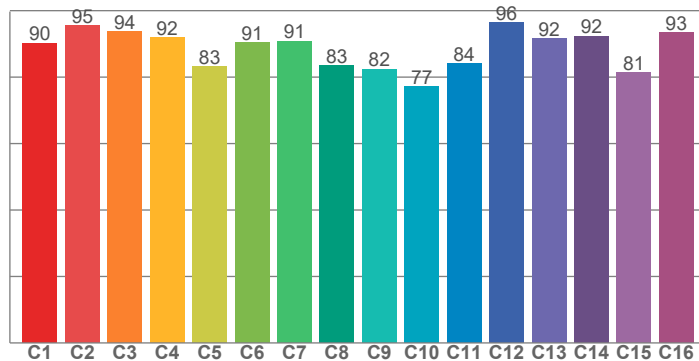


Power

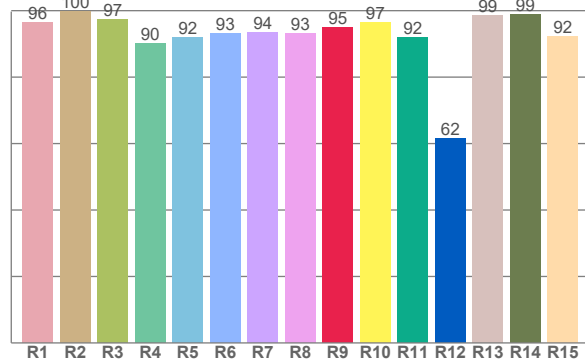




TM30: 88,1



CRI: 94,4 (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
96,3	99,7	97,3	90,2	92,0	93,3	93,5	93,3	94,9	96,6	92,0	61,7	98,6	98,9	92,2

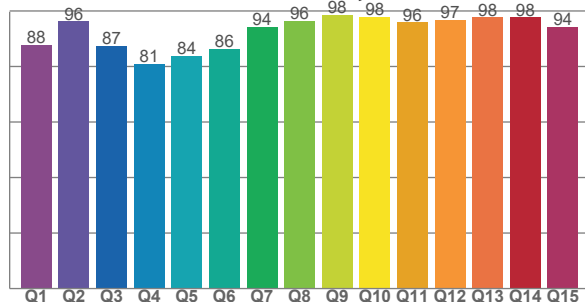
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90,2	95,5	93,8	91,9	83,3	90,5	90,8	83,5	82,5	77,2	84,1	96,3	91,6	92,4	81,3	93,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87,7	96,2	87,4	80,9	83,9	86,3	94,2	96,3	98,5	97,8	95,9	96,8	97,7	97,7	94,4

CQS: 90,8



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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
6494 K	94,4	94,9	88,1	96,3	90,8	0,313	0,329	0,198	0,312	0,0002

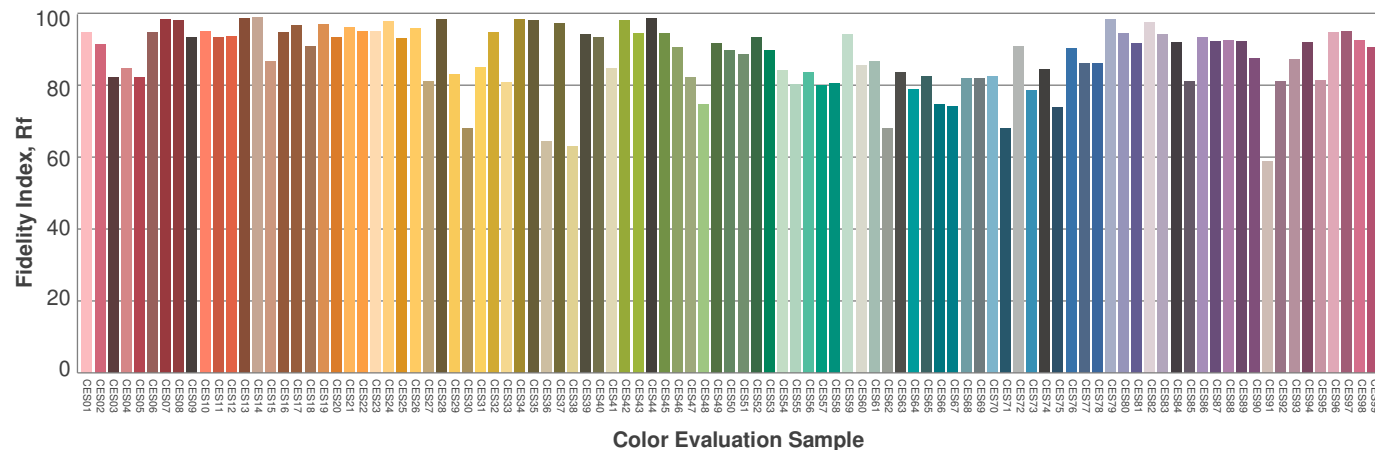
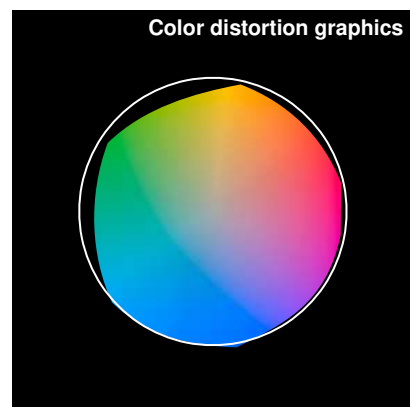
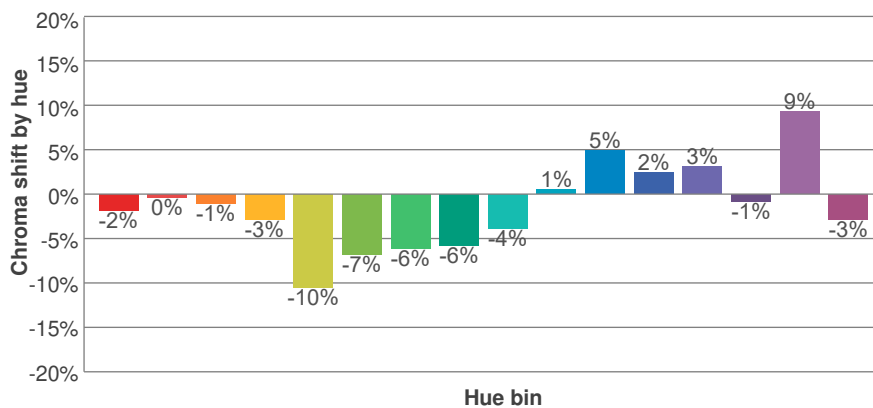
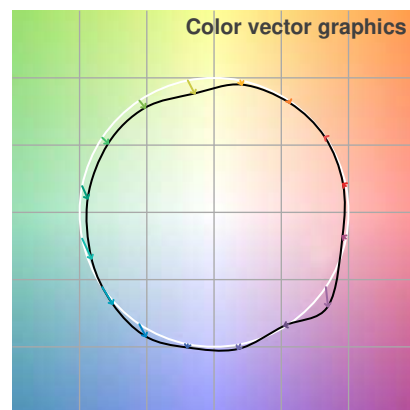
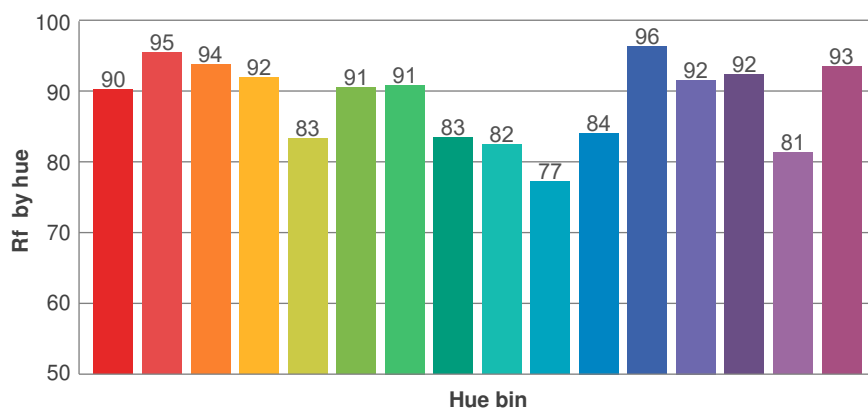
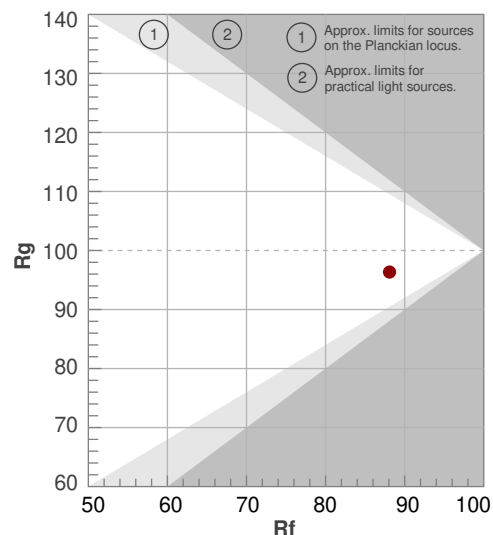
Rf 88,1

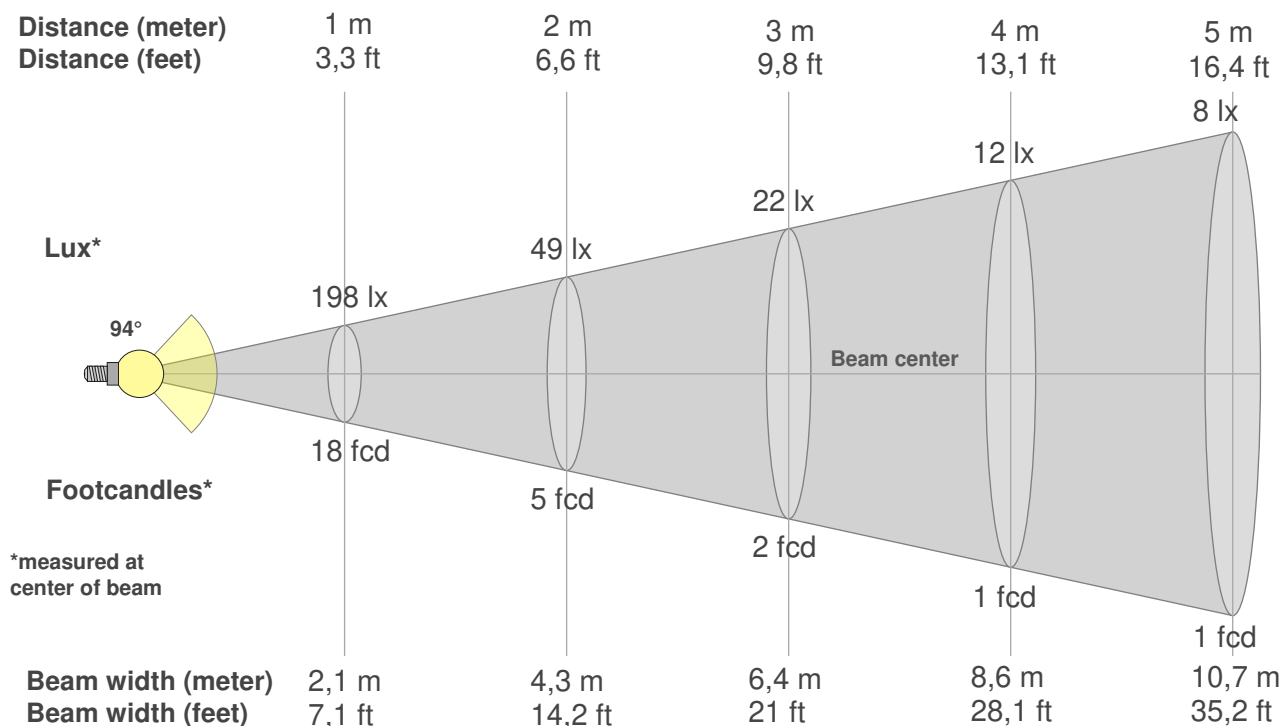
Fidelity index Rf

Rg 96,3

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	90	-2%	2%
2	95	0%	1%
3	94	-1%	-2%
4	92	-3%	-2%
5	83	-10%	-3%
6	91	-7%	-1%
7	91	-6%	1%
8	83	-6%	8%
9	82	-4%	16%
10	77	1%	15%
11	84	5%	9%
12	96	2%	0%
13	92	3%	-3%
14	92	-1%	-3%
15	81	9%	-11%
16	93	-3%	1%





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
198lx	49lx	22lx	12lx	8lx	5lx	4lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx
18,4fcd	4,6fcd	2fcd	1,1fcd	0,7fcd	0,5fcd	0,4fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0fcd

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°
198	196	192	185	176	164	150	136	121	107	93	82	71	61	52	42	33	25	10	0
100%	99%	97%	94%	89%	83%	76%	69%	61%	54%	47%	41%	36%	31%	26%	21%	17%	13%	5%	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°
198	196	192	185	176	164	150	135	119	102	86	71	57	44	32	22	13	5	1	1
100%	99%	97%	94%	89%	83%	76%	68%	60%	52%	43%	36%	29%	22%	16%	11%	6%	3%	1%	1%

Intensities in 180° c-plane

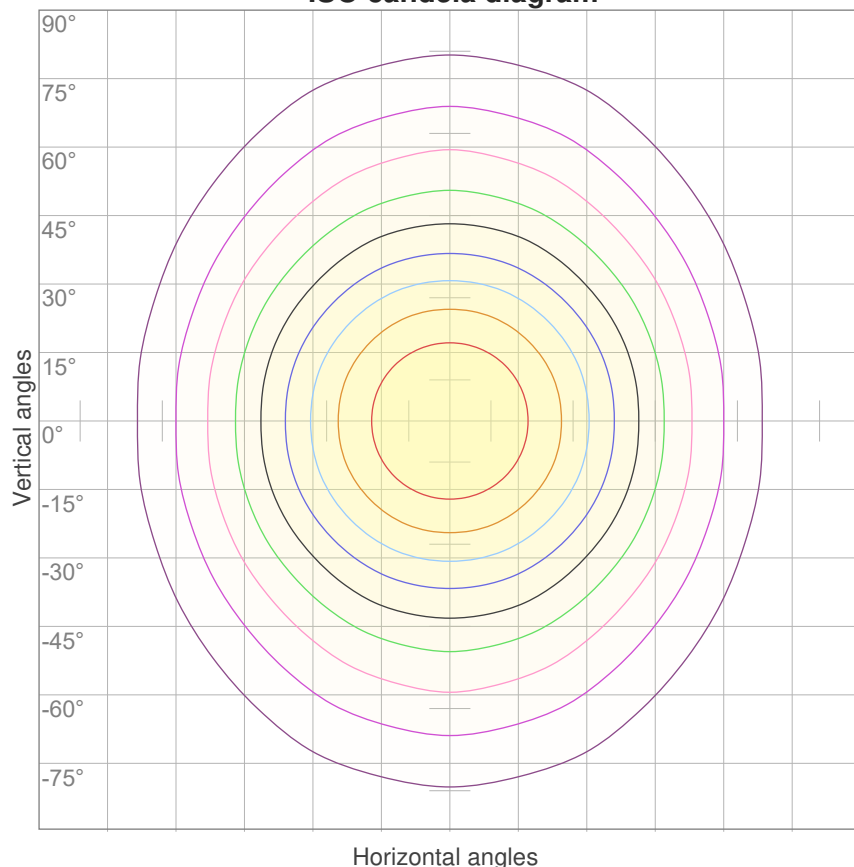
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
198	196	192	185	176	164	150	136	121	107	93	82	71	61	52	42	33	25	10	0
100%	99%	97%	94%	89%	83%	76%	69%	61%	54%	47%	41%	36%	31%	26%	21%	17%	13%	5%	0%

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°
198	196	192	185	176	164	150	135	119	102	86	71	57	44	32	22	13	5	1	1
100%	99%	97%	94%	89%	83%	76%	68%	60%	52%	43%	36%	29%	22%	16%	11%	6%	3%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
94°	164,1°	203,6°	77,2%	55,4%

ISO candela diagram



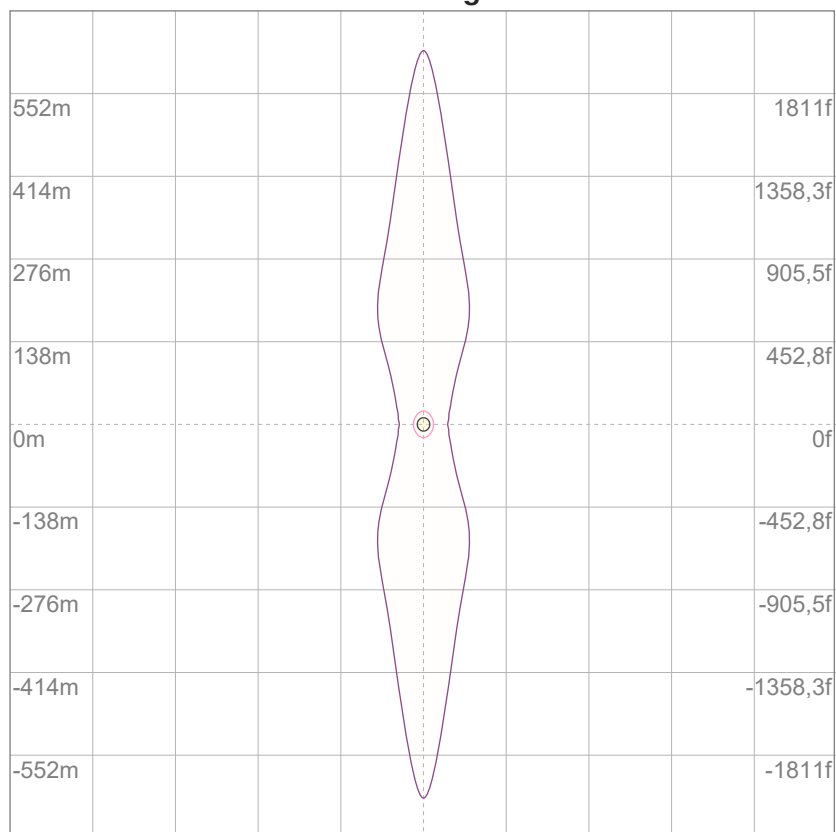
10%	20 cd
20%	40 cd
30%	59 cd
40%	79 cd
50%	99 cd
60%	119 cd
70%	138 cd
80%	158 cd
90%	178 cd

Conditions:

Number of c-planes: 16

Candela at center: 198 cd

ISO lux diagram



Mounting height: 10 meters (33 feet)

3%	59,3m lx
5%	98,8m lx
10%	0,198 lx
30%	0,593 lx
50%	0,988 lx

Conditions:

Number of c-planes: 16

Lux at center: 1,98 lx

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

Glare Evaluation According to UGR

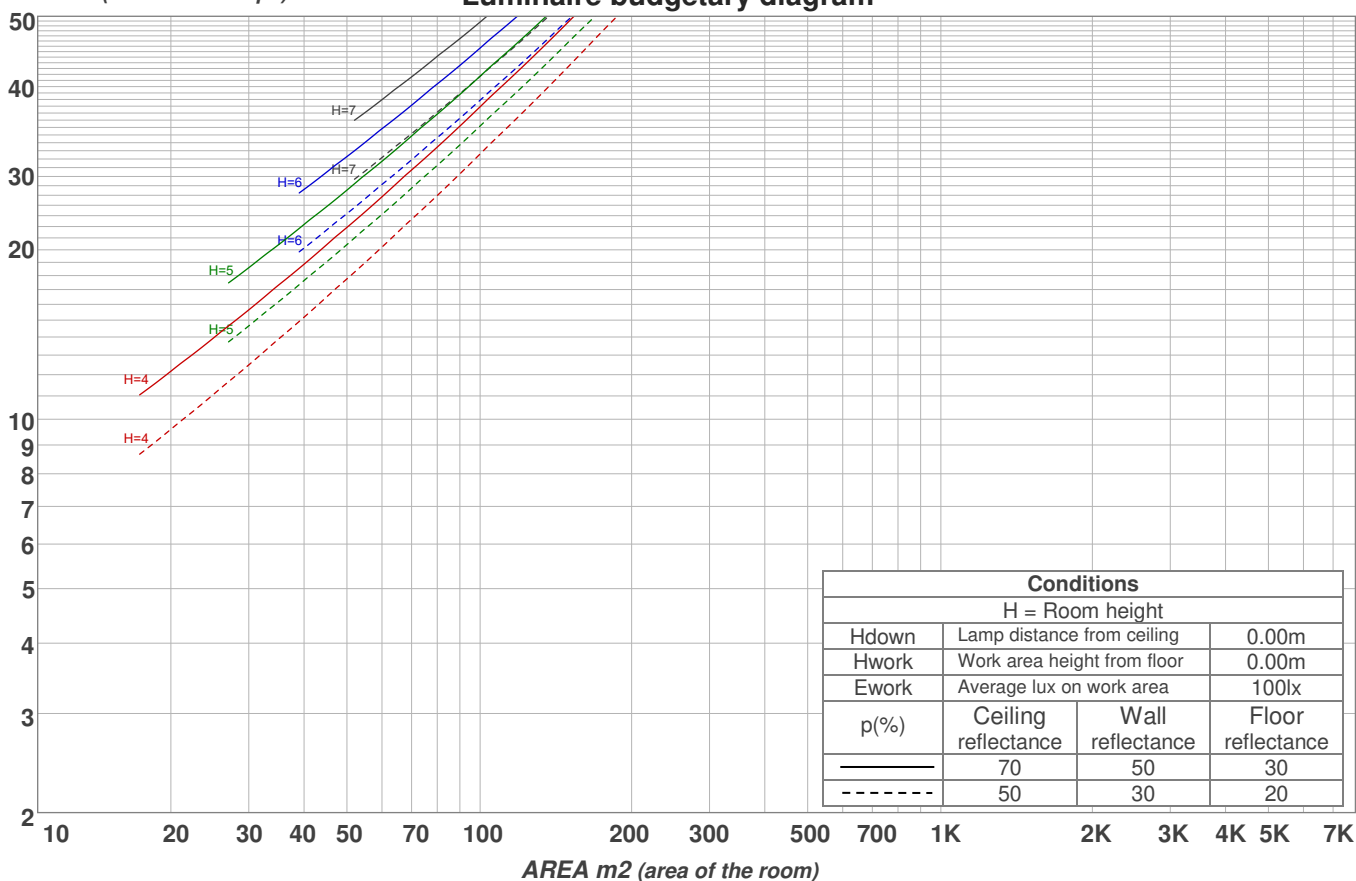
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	22,8	24,0	23,0	24,3	24,5	22,8	24,0	23,0	24,3	24,5
	3H	24,3	25,6	24,7	25,8	26,0	23,9	25,2	24,3	25,4	25,6
	4H	25,1	26,3	25,5	26,5	26,8	24,4	25,6	24,8	25,9	26,1
	6H	25,8	26,9	26,1	27,1	27,5	24,8	25,8	25,1	26,1	26,5
	8H	26,1	27,1	26,4	27,4	27,8	24,9	25,9	25,2	26,2	26,6
	12H	26,3	27,3	26,7	27,7	28,1	24,9	25,9	25,3	26,3	26,7
4H	2H	23,3	24,5	23,7	24,7	25,0	23,2	24,4	23,7	24,7	25,0
	3H	25,1	26,1	25,5	26,5	26,9	24,7	25,7	25,1	26,0	26,5
	4H	25,9	26,9	26,4	27,3	27,8	25,2	26,1	25,7	26,5	27,1
	6H	26,8	27,7	27,3	28,0	28,4	25,7	26,5	26,2	26,9	27,3
	8H	27,1	28,0	27,7	28,3	28,7	25,8	26,6	26,3	27,0	27,4
	12H	27,5	28,2	28,0	28,6	29,1	25,9	26,6	26,4	27,0	27,5
8H	4H	26,2	27,0	26,7	27,3	27,7	25,5	26,3	26,0	26,7	27,1
	6H	27,2	27,8	27,7	28,3	28,8	26,1	26,7	26,6	27,2	27,7
	8H	27,7	28,3	28,2	28,8	29,4	26,4	26,9	26,9	27,4	28,1
	12H	28,2	28,7	28,8	29,2	29,8	26,5	27,0	27,1	27,5	28,1
12H	4H	26,2	26,8	26,7	27,3	27,7	25,6	26,2	26,0	26,6	27,1
	6H	27,3	27,8	27,8	28,3	29,0	26,2	26,8	26,8	27,3	27,9
	8H	27,8	28,3	28,4	28,8	29,4	26,5	27,0	27,1	27,5	28,1
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,1					0,1 / -0,1				
S = 1.5H		0,1 / -0,2					0,2 / -0,3				
S = 2.0H		0,3 / -0,4					0,6 / -0,8				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 492 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	110	110	110	105	105	105	100	100	100	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	86	88	86	84	81
2	98	90	83	78	96	88	82	76	84	79	74	81	76	72	77	74	70	68
3	90	80	71	65	87	78	70	64	75	68	63	71	66	61	69	64	60	58
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	56	52	50
5	76	64	55	48	74	62	54	48	60	53	47	58	51	46	56	50	46	44
6	71	57	49	42	69	56	48	42	54	47	42	53	46	41	51	45	41	38
7	66	52	44	38	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	40	34	60	47	39	34	46	38	33	44	38	33	43	37	33	31
9	57	44	36	31	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

LAMPS (number of lamps)

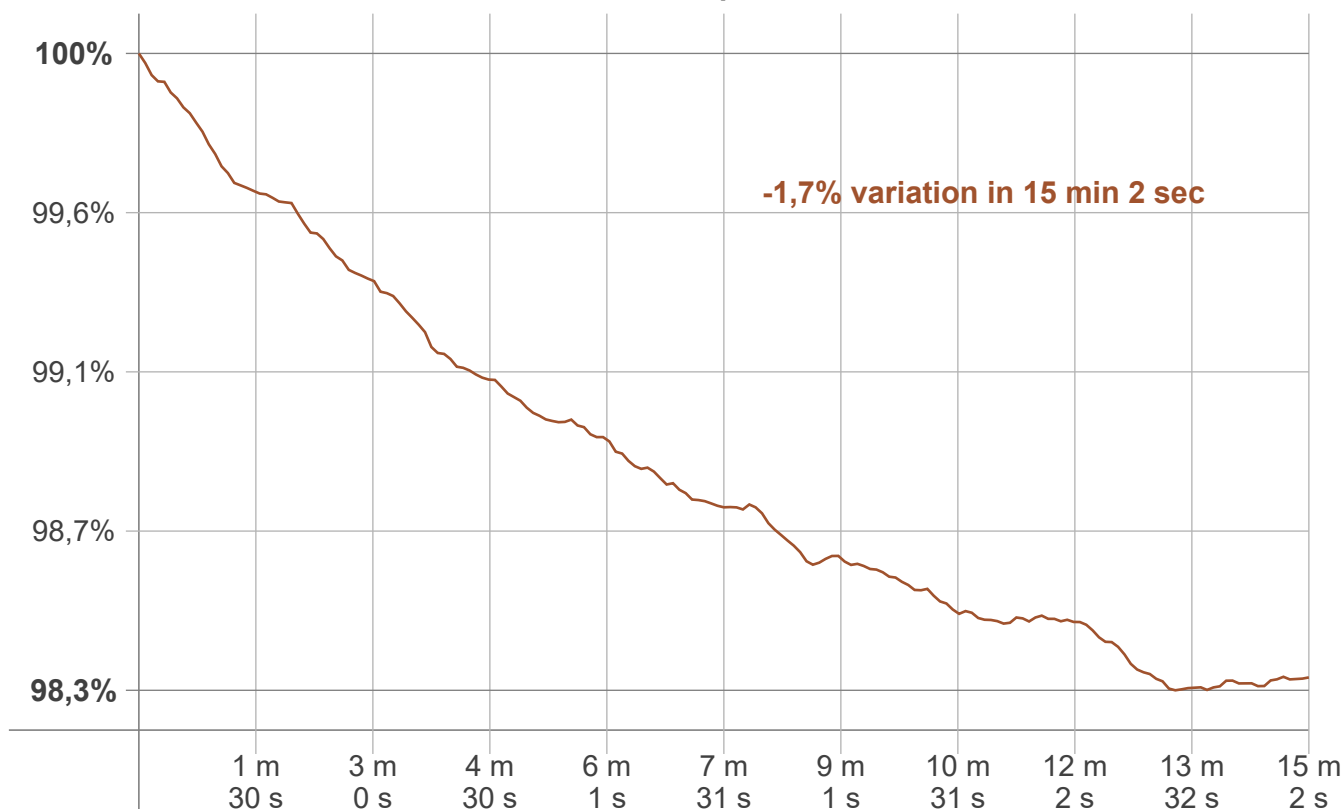
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
18,6 lm	52,1 lm	75,4 lm	84,7 lm	80,8 lm	68,2 lm	51,6 lm	33,6 lm	16,3 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
4,23 lm	1,52 lm	1,27 lm	1,15 lm	0,936 lm	0,718 lm	0,529 lm	0,324 lm	0,109 lm

Warmup curve



Warmup result

Warmup time:	Lamp stabilized in 15 min 2 sec
Warmup variation	-1,7%

Warmup conditions

Stable period:	15 min
Stable change max:	2,0%
Minimum time:	15 min

Color temperature change

CCT start	CCT change	CCT end
6493 K	+1 K	6494 K

Output change

Output start	Output change	Output end
500 lm	-8 lm	492 lm