

Light efficiency:

96 Lumen/Watt

Light quality:

CRI: 93,2

Color temperature:

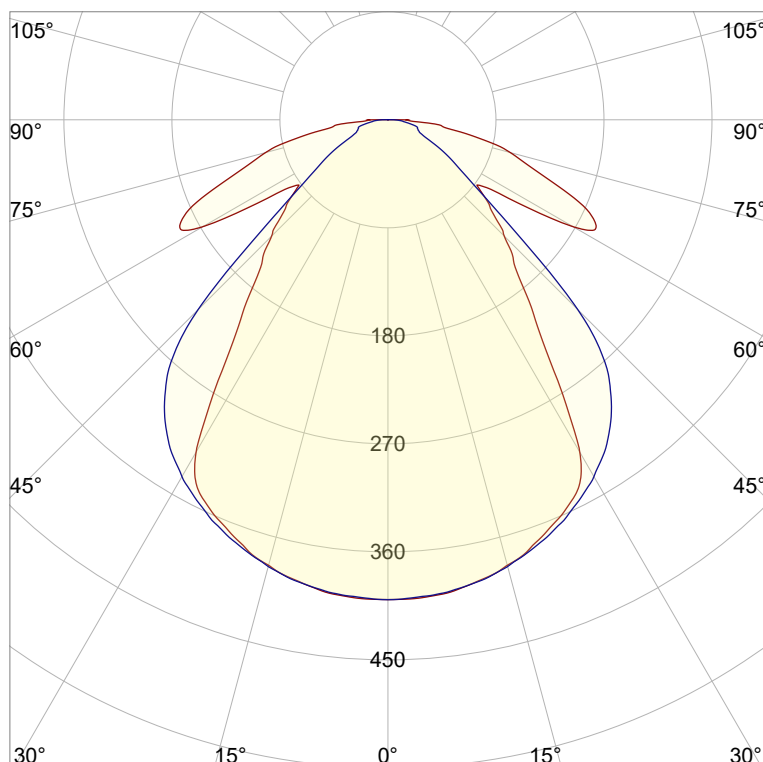
6743 K

Output: 921 lm

Peak: 400 cd

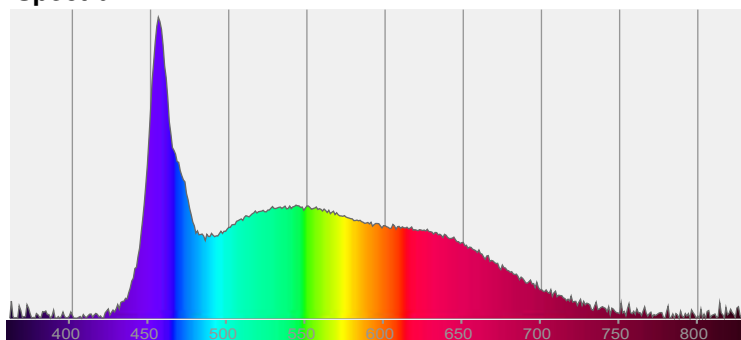
Power: 9,6 W

PF: 1,0

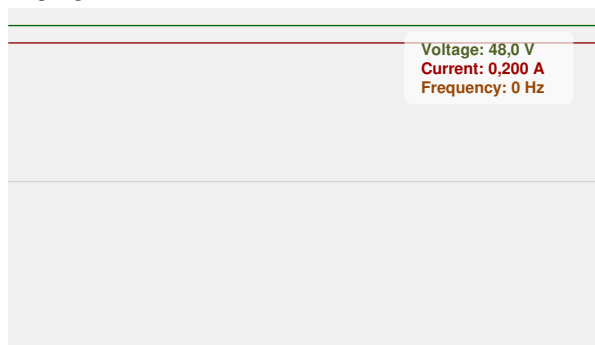


CIE 1931
x: 0,309
y: 0,325

Spectra



Power



Product name:

Pegasus-5_0510_965_Cover-Square-Microprismatic

Item number:

FL/L2C/09E/0510/965/CSM

Date and time:

07.04.2025 15:29:32

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:

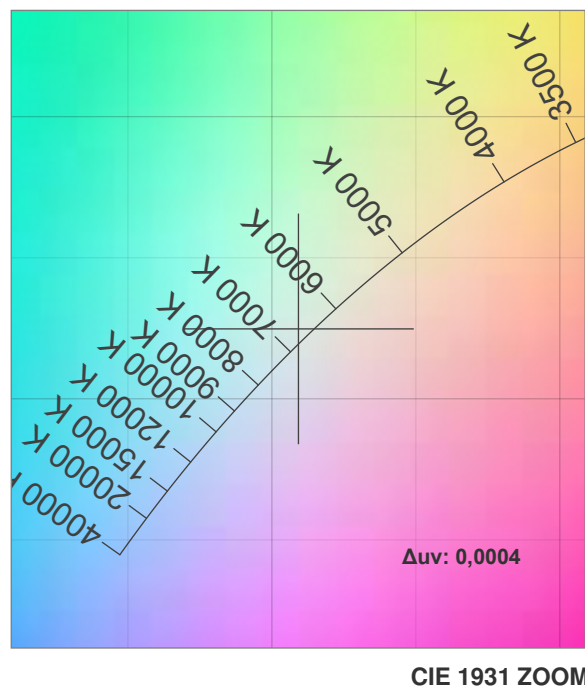
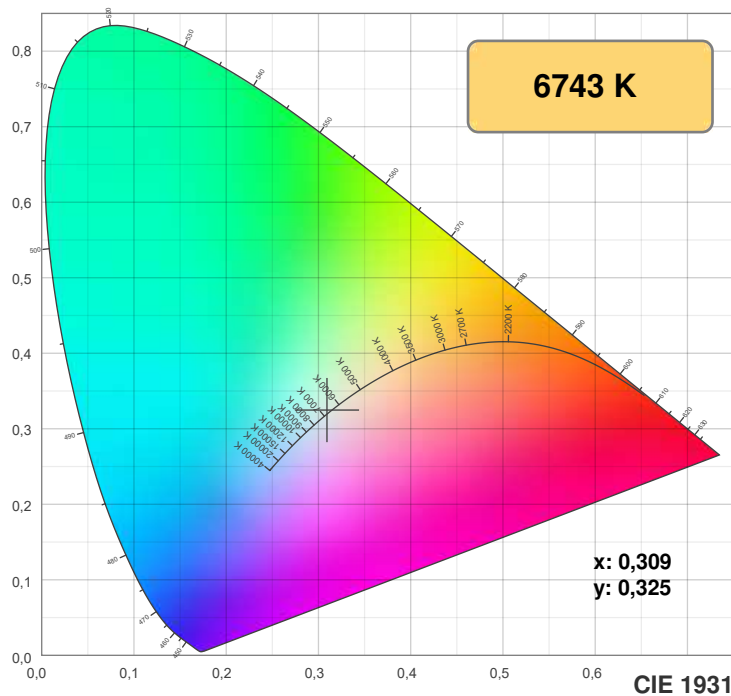
Peter Ulrich

Test Site:

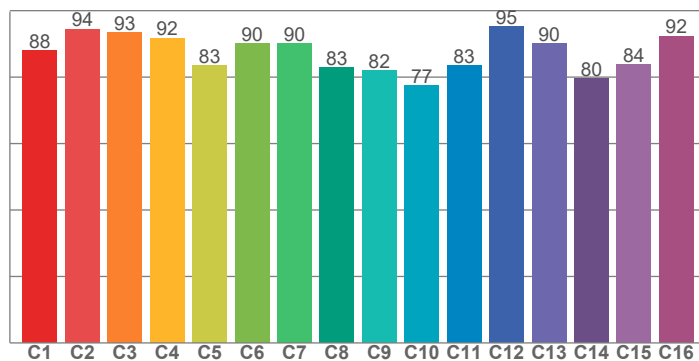
Lichtlabor

Gaustrasse 13

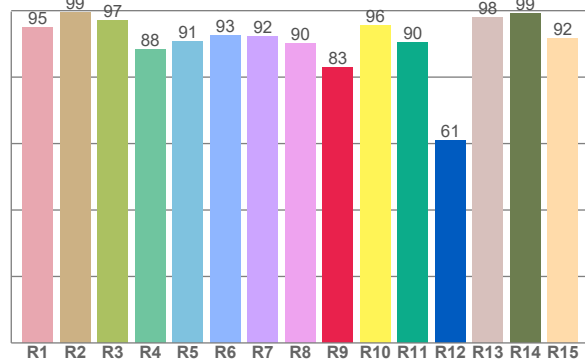
55411 Bingen am Rhein



TM30: 87,3



CRI: 93,2 (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
94,9	99,4	97,1	88,5	90,8	92,6	92,2	90,1	83,0	95,5	90,4	61,0	97,9	99,1	91,6

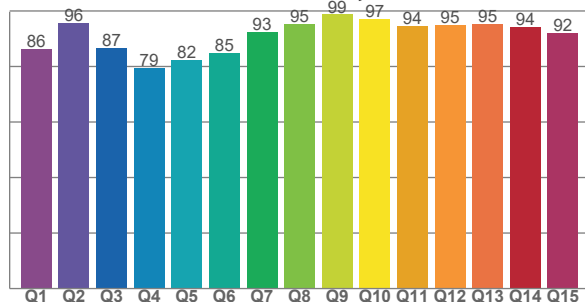
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,1	94,5	93,4	91,8	83,4	90,2	90,2	82,8	81,9	77,4	83,5	95,1	90,1	79,7	83,7	92,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
86,3	95,8	86,8	79,5	82,4	84,7	92,5	95,2	98,7	97,2	94,5	94,9	95,4	94,2	92,2

CQS: 89,7



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
6743 K	93,2	83,0	87,3	95,8	89,7	0,309	0,325	0,197	0,310	0,0004

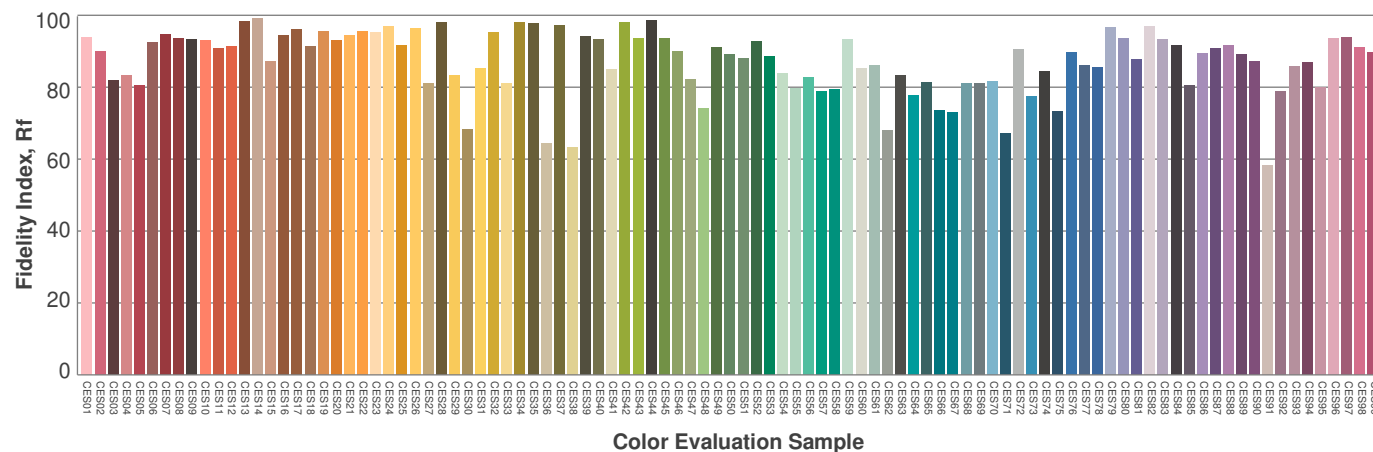
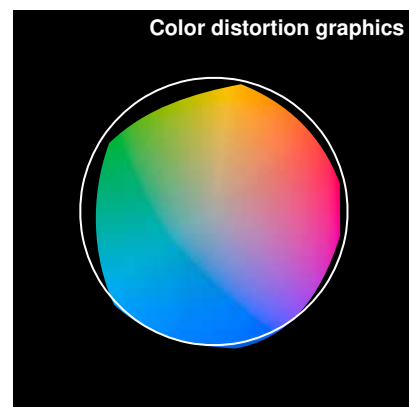
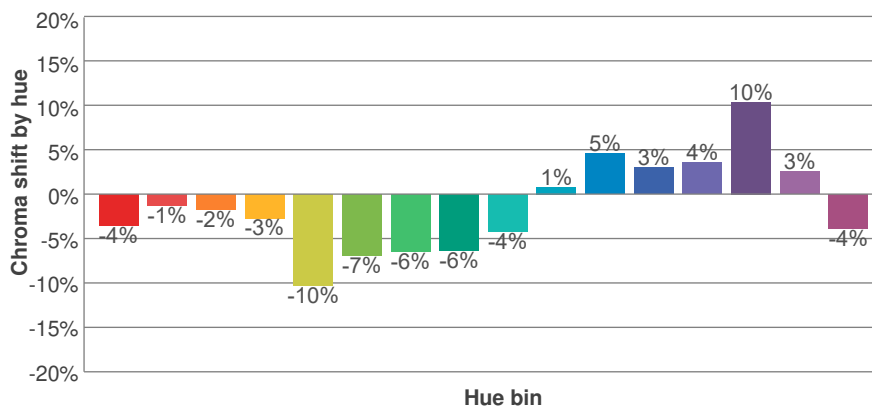
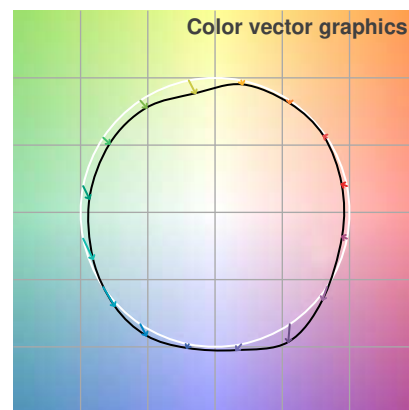
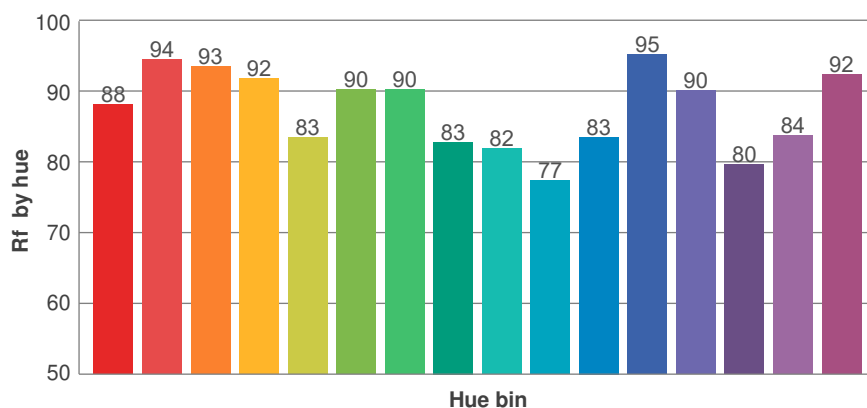
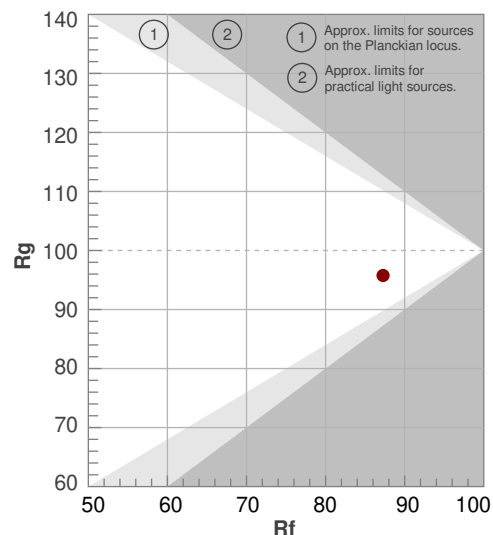
Rf 87,3

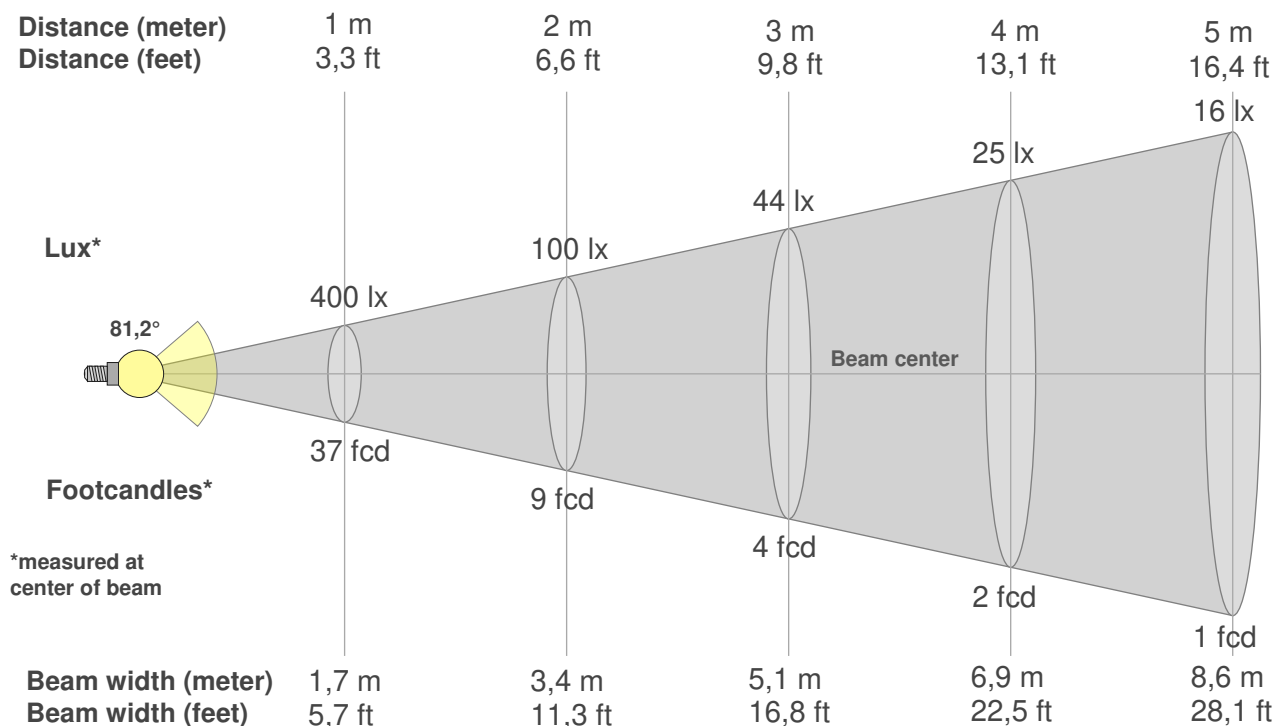
Fidelity index Rf

Rg 95,8

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	88	-4%	2%
2	94	-1%	2%
3	93	-2%	-1%
4	92	-3%	-1%
5	83	-10%	-3%
6	90	-7%	-1%
7	90	-6%	1%
8	83	-6%	8%
9	82	-4%	16%
10	77	1%	16%
11	83	5%	8%
12	95	3%	-1%
13	90	4%	-4%
14	80	10%	-8%
15	84	3%	-10%
16	92	-4%	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
400lx	100lx	44lx	25lx	16lx	11lx	8lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx
37,1fcd	9,3fcd	4,1fcd	2,3fcd	1,5fcd	1fcd	0,8fcd	0,6fcd	0,5fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	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°
400	399	393	384	371	355	319	225	169	137	110	98	178	186	139	105	65	37	8	7
100%	100%	98%	96%	93%	89%	80%	56%	42%	34%	28%	25%	44%	47%	35%	26%	16%	9%	2%	2%

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°
400	398	393	385	374	360	343	321	288	223	120	75	54	34	27	25	18	12	2	2
100%	100%	98%	96%	94%	90%	86%	80%	72%	56%	30%	19%	13%	9%	7%	6%	5%	3%	1%	1%

Intensities in 180° c-plane

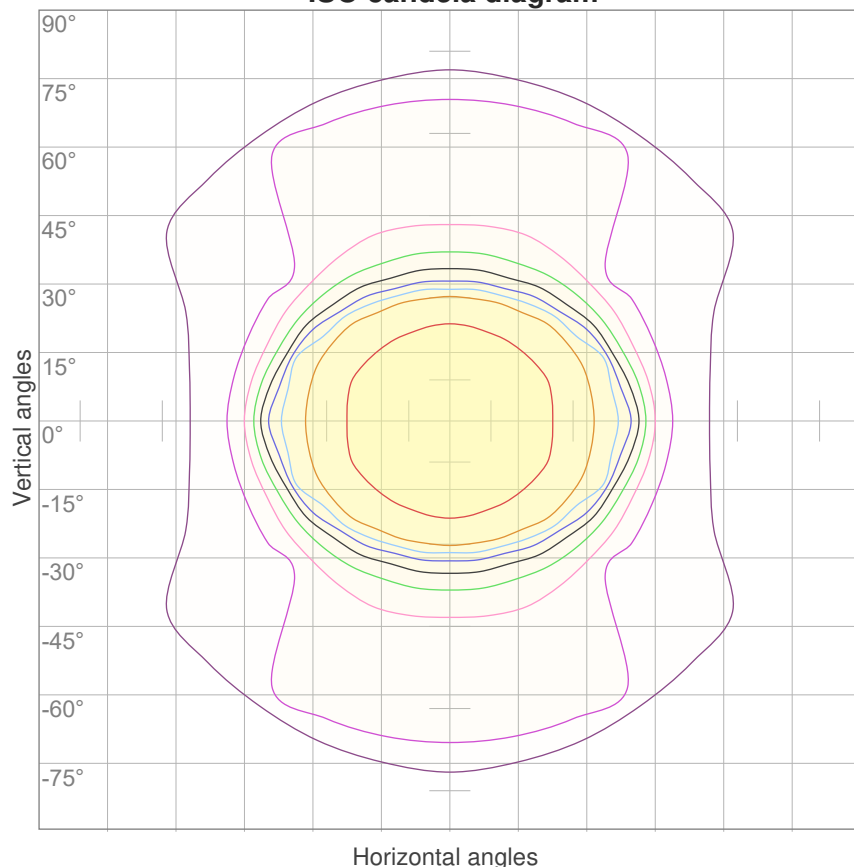
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
400	399	393	384	371	355	319	225	169	137	110	98	178	186	139	105	65	37	8	7
100%	100%	98%	96%	93%	89%	80%	56%	42%	34%	28%	25%	44%	47%	35%	26%	16%	9%	2%	2%

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°
400	398	393	385	374	360	343	321	288	223	120	75	54	34	27	25	18	12	2	2
100%	100%	98%	96%	94%	90%	86%	80%	72%	56%	30%	19%	13%	9%	7%	6%	5%	3%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
81,2°	161,4°	178,4°	74,6%	60,3%

ISO candela diagram



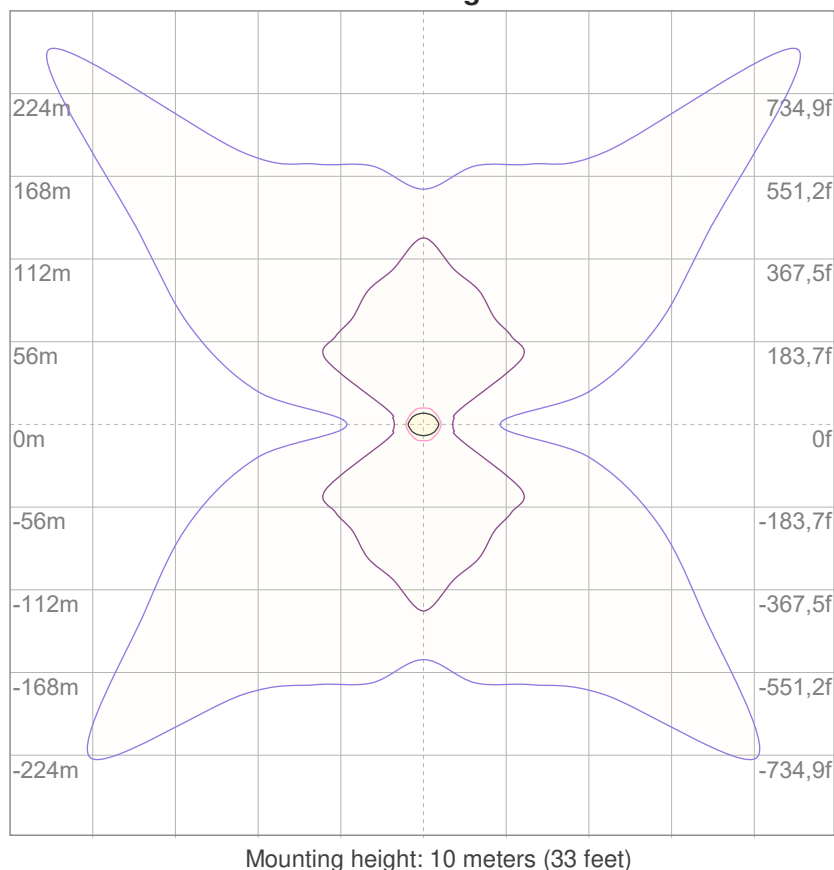
10%	40 cd
20%	80 cd
30%	120 cd
40%	160 cd
50%	200 cd
60%	240 cd
70%	280 cd
80%	320 cd
90%	360 cd

Conditions:

Number of c-planes: 16

Candela at center: 400 cd

ISO lux diagram



3%	0,120 lx
5%	0,200 lx
10%	0,400 lx
30%	1,20 lx
50%	2,00 lx

Conditions:

Number of c-planes: 16

Lux at center: 4,00 lx

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

Glare Evaluation According to UGR

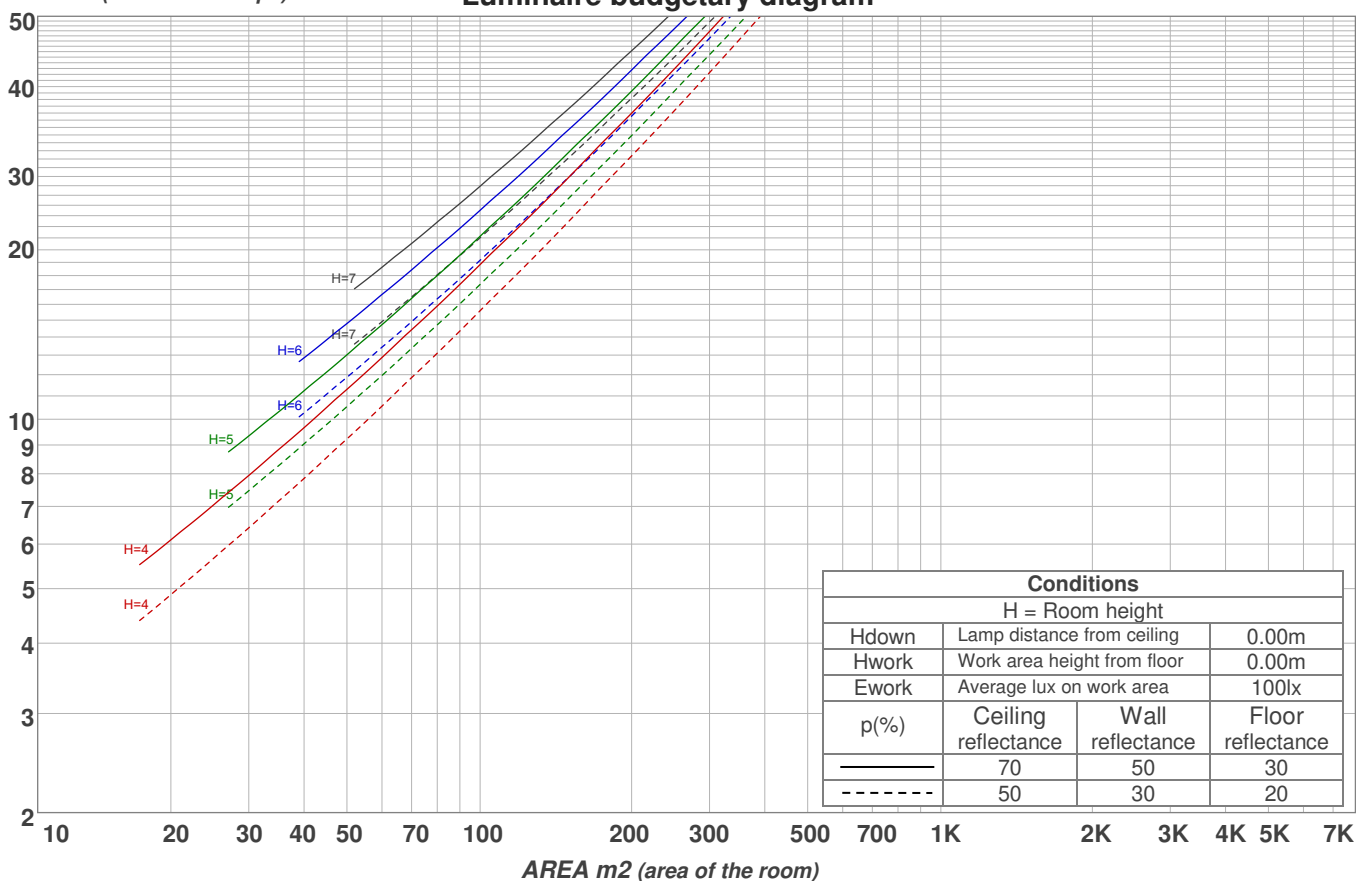
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	25,0	26,2	25,2	26,5	26,7	22,4	23,6	22,6	23,9	24,1
	3H	28,1	29,3	28,5	29,6	29,8	23,0	24,2	23,4	24,5	24,7
	4H	29,0	30,1	29,4	30,4	30,7	23,6	24,7	24,0	25,0	25,3
	6H	29,6	30,7	29,9	30,9	31,3	24,5	25,5	24,8	25,8	26,2
	8H	29,8	30,8	30,1	31,1	31,5	24,7	25,7	25,1	26,0	26,5
	12H	29,8	30,8	30,2	31,2	31,6	24,9	25,9	25,3	26,2	26,7
4H	2H	25,5	26,7	25,9	27,0	27,2	23,5	24,6	23,9	24,9	25,2
	3H	29,1	30,1	29,4	30,4	30,8	24,9	25,9	25,3	26,2	26,7
	4H	30,0	30,9	30,5	31,3	31,9	25,6	26,6	26,1	27,0	27,5
	6H	30,7	31,6	31,2	32,0	32,3	26,7	27,6	27,2	28,0	28,3
	8H	30,9	31,7	31,4	32,1	32,5	27,0	27,8	27,5	28,2	28,6
	12H	31,0	31,7	31,5	32,1	32,6	27,3	27,9	27,8	28,4	28,8
8H	4H	30,3	31,2	30,8	31,5	31,9	27,0	27,8	27,5	28,2	28,6
	6H	31,2	31,8	31,7	32,3	32,9	28,3	28,9	28,8	29,4	29,9
	8H	31,5	32,1	32,0	32,6	33,2	28,7	29,2	29,2	29,8	30,4
	12H	31,7	32,2	32,3	32,7	33,3	29,0	29,5	29,6	30,0	30,6
12H	4H	30,4	31,0	30,9	31,5	31,9	27,2	27,8	27,7	28,3	28,7
	6H	31,3	31,9	31,8	32,4	33,0	28,5	29,1	29,0	29,6	30,2
	8H	31,6	32,1	32,2	32,6	33,2	29,0	29,5	29,6	30,0	30,6
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,2 / -0,2					0,2 / -0,2				
S = 1.5H		0,5 / -0,6					0,7 / -0,3				
S = 2.0H		0,7 / -0,8					1,2 / -0,7				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 921 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	101	101	101	98
1	108	103	98	94	105	100	96	93	96	92	89	92	89	86	88	86	84	81
2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	77	74	71	68
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	69	65	61	59
4	83	72	63	56	81	70	62	56	67	61	55	65	59	54	63	57	53	51
5	77	65	56	50	75	63	55	49	61	54	49	59	53	48	57	52	47	45
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	52	47	42	40
7	67	54	45	40	65	53	45	39	51	44	39	50	43	39	48	43	38	36
8	63	50	41	36	61	49	41	36	47	40	35	46	40	35	45	39	35	33
9	59	46	38	33	57	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

LAMPS (number of lamps)

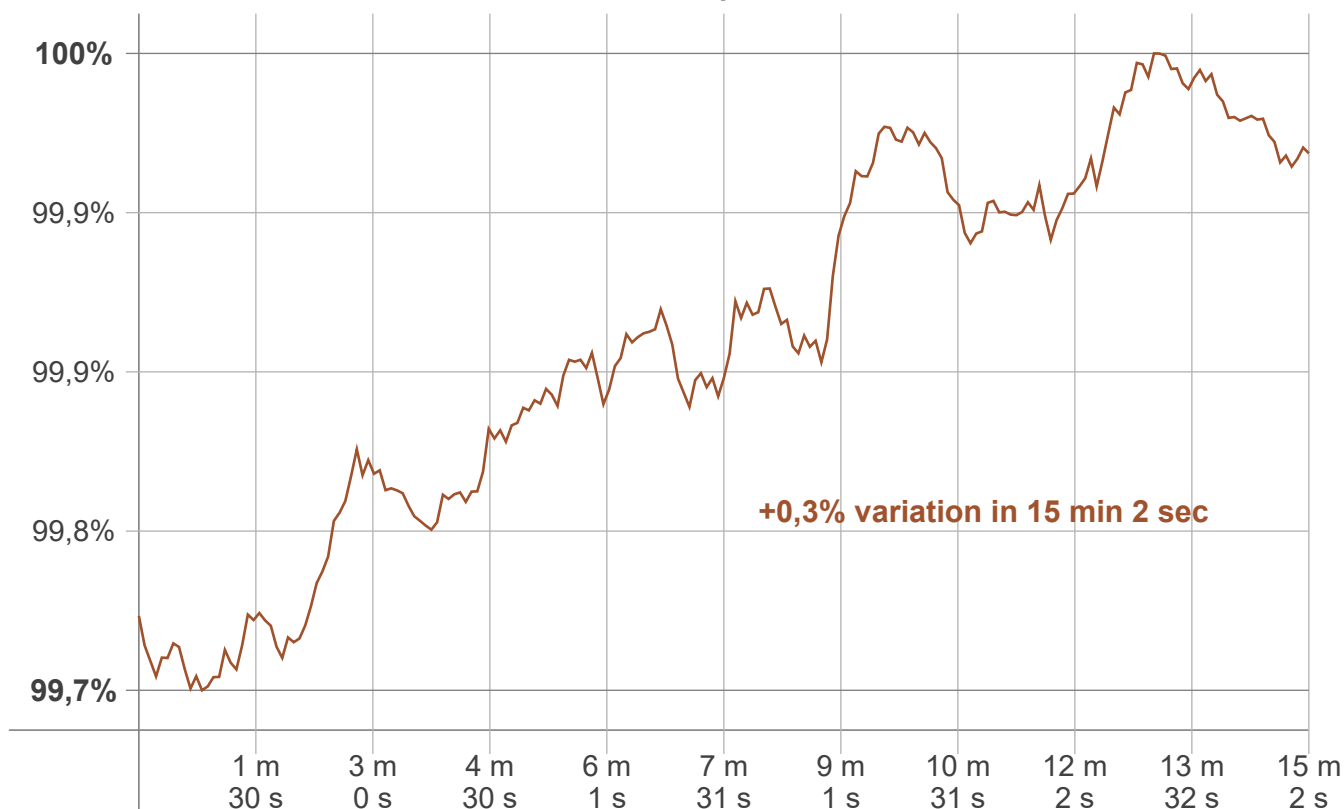
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
37,9 lm	109 lm	165 lm	175 lm	122 lm	78,4 lm	103 lm	83,4 lm	32,7 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
5,02 lm	2,81 lm	2,38 lm	2,15 lm	1,35 lm	0,702 lm	0,517 lm	0,317 lm	0,107 lm

Warmup curve



Warmup result

Warmup time:	Lamp stabilized in 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
6738 K	+5 K	6743 K

Output change

Output start	Output change	Output end
920 lm	+1 lm	921 lm