



Light efficiency:

93 Lumen/Watt

Light quality:

CRI: 93,2

Color temperature:

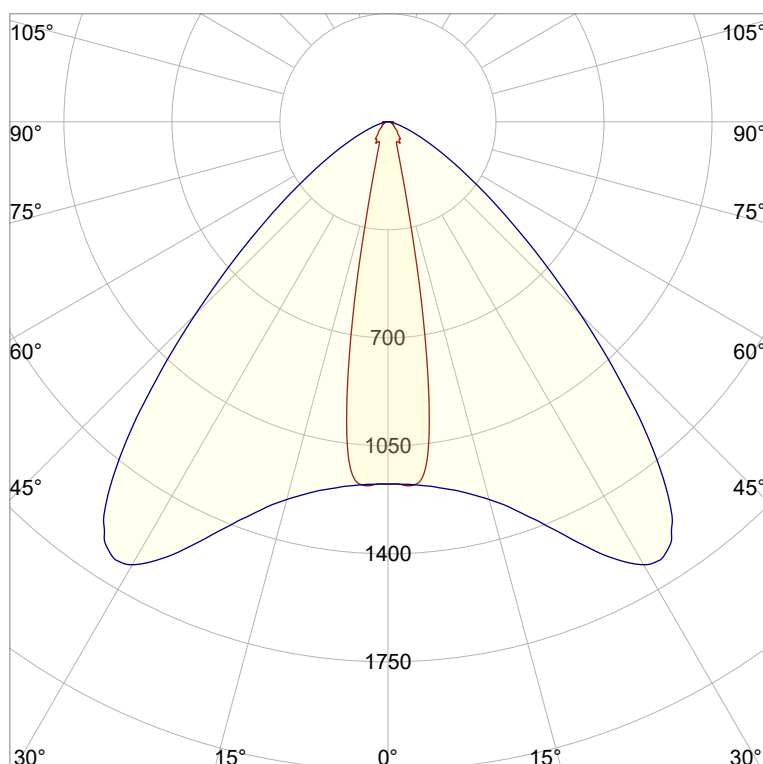
6780 K

Output: 891 lm

Peak: 1670 cd

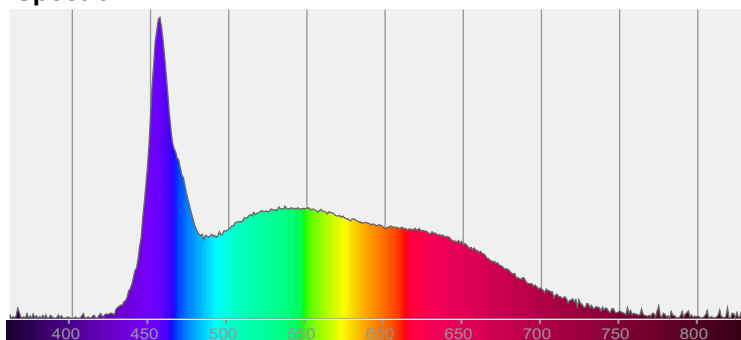
Power: 9,6 W

PF: 1,0



CIE 1931
x: 0,309
y: 0,324

Spectra



Power

Voltage: 48,0 V
Current: 0,200 A
Frequency: 0 Hz

Product name:

Pegasus-5_0510_965_Inlay-Lens-30-Grad

Item number:

FL/L2C/09E/0510/965/IL3F

Date and time:

25.08.2025 11:40:33

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:

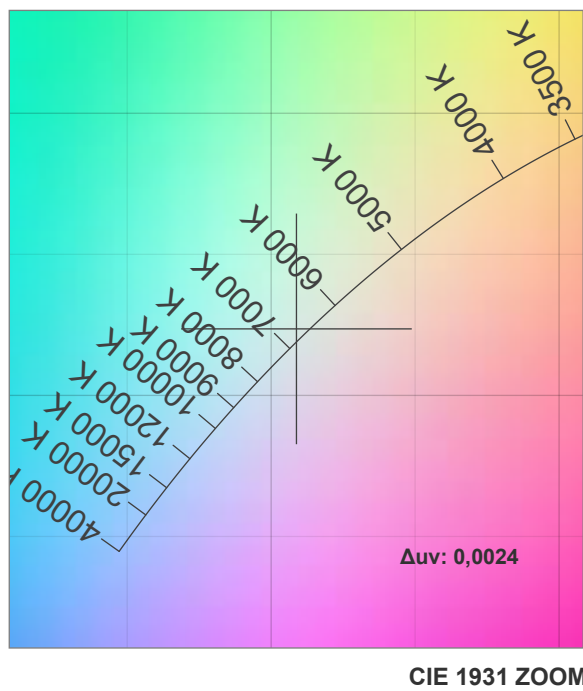
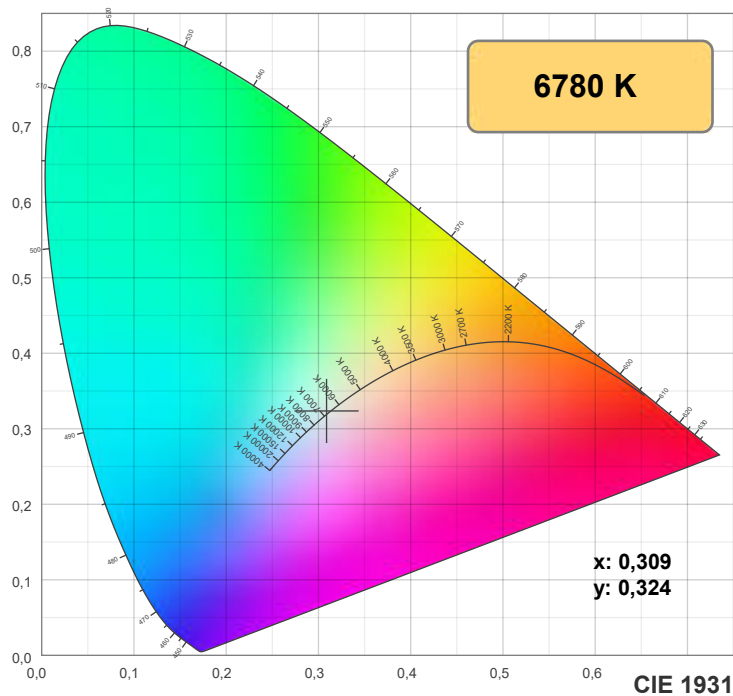
Peter Ulrich

Test Site:

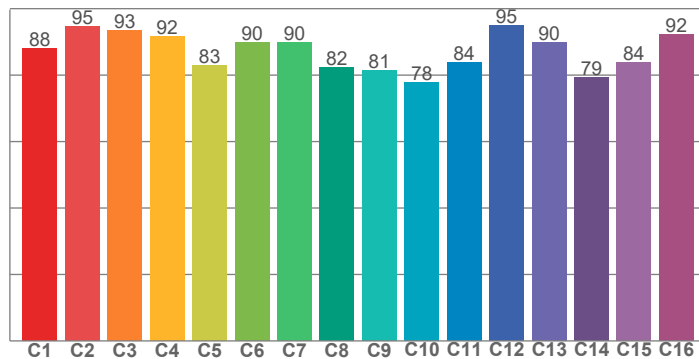
Lichtlabor

Gaustrasse 13

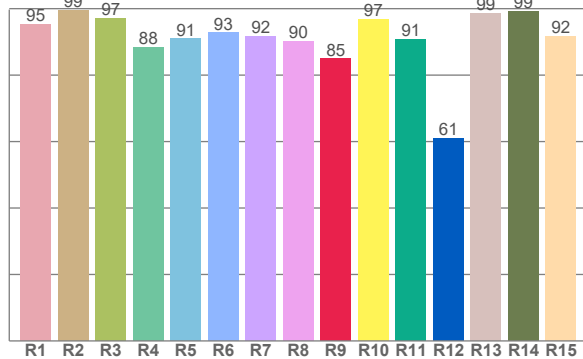
55411 Bingen am Rhein



TM30: 87,1



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
95,2	99,5	97,2	88,3	90,9	92,7	91,8	90,2	84,9	96,7	90,6	60,9	98,5	99,2	91,6

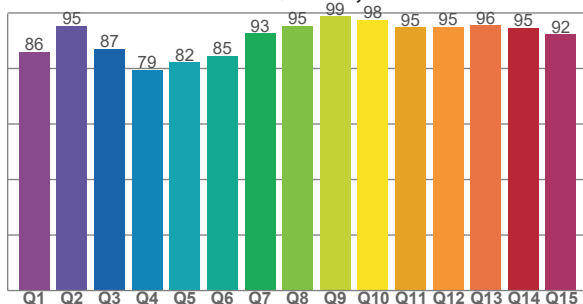
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,0	94,6	93,4	91,6	82,9	89,8	89,9	82,3	81,5	77,7	83,9	95,0	89,9	79,4	83,7	92,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
86,0	95,4	87,0	79,4	82,2	84,6	92,7	95,4	98,8	97,6	94,7	95,0	95,5	94,6	92,2

CQS: 89,6



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
6780 K	93,2	84,9	87,1	95,8	89,6	0,309	0,324	0,197	0,310	0,0024



TM30 details



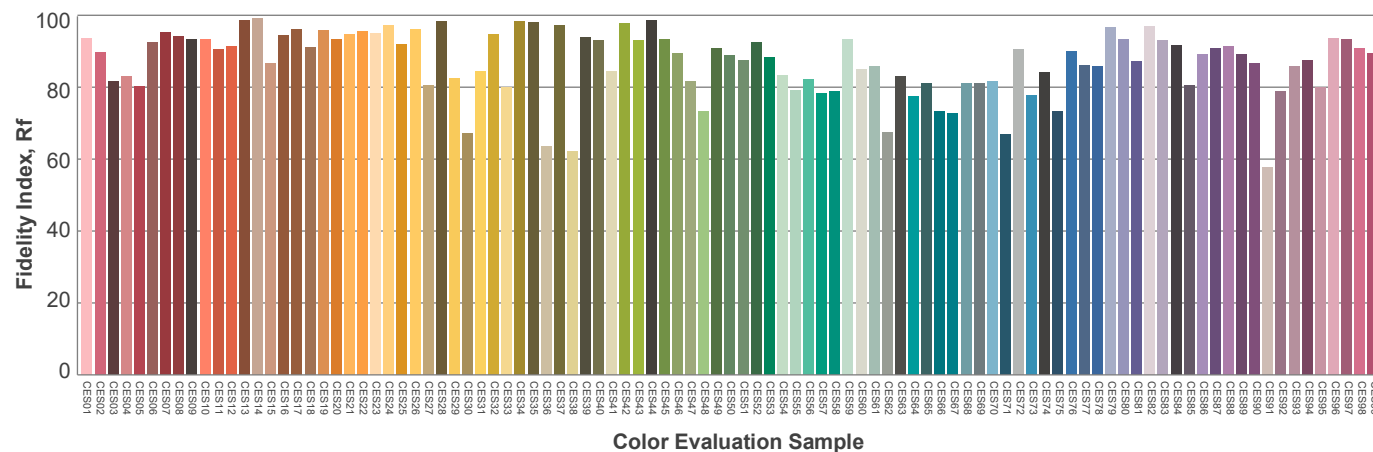
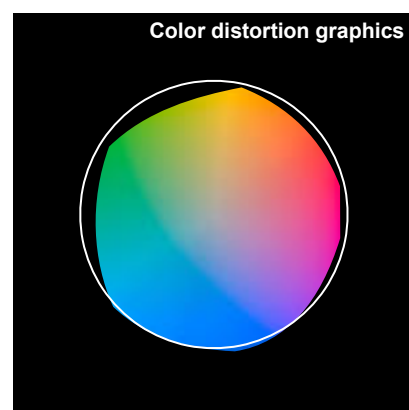
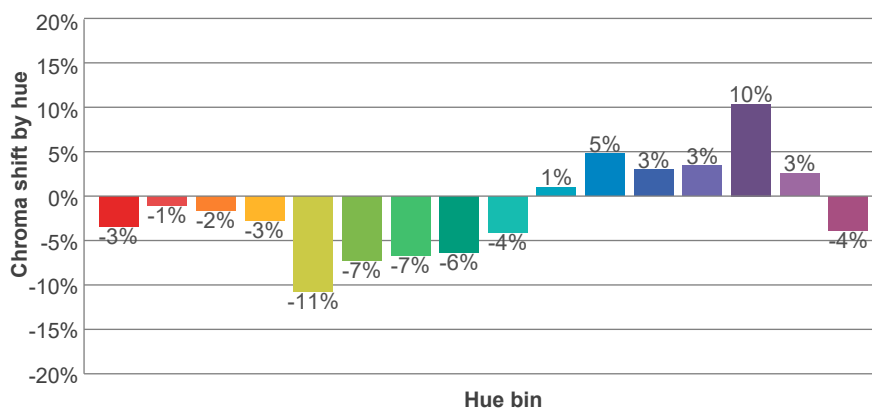
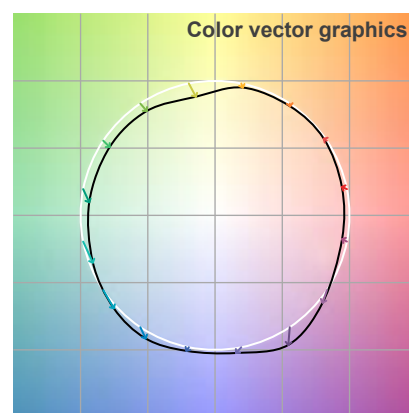
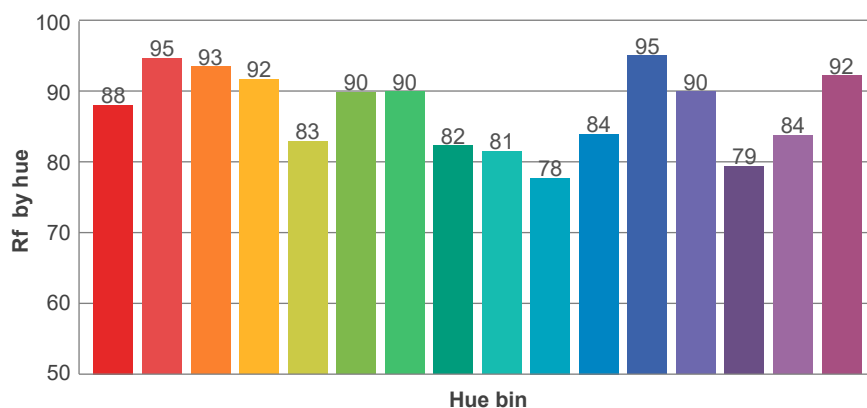
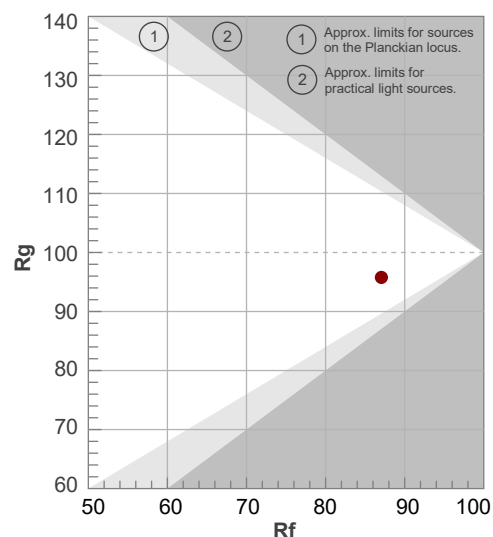
Rf 87,1

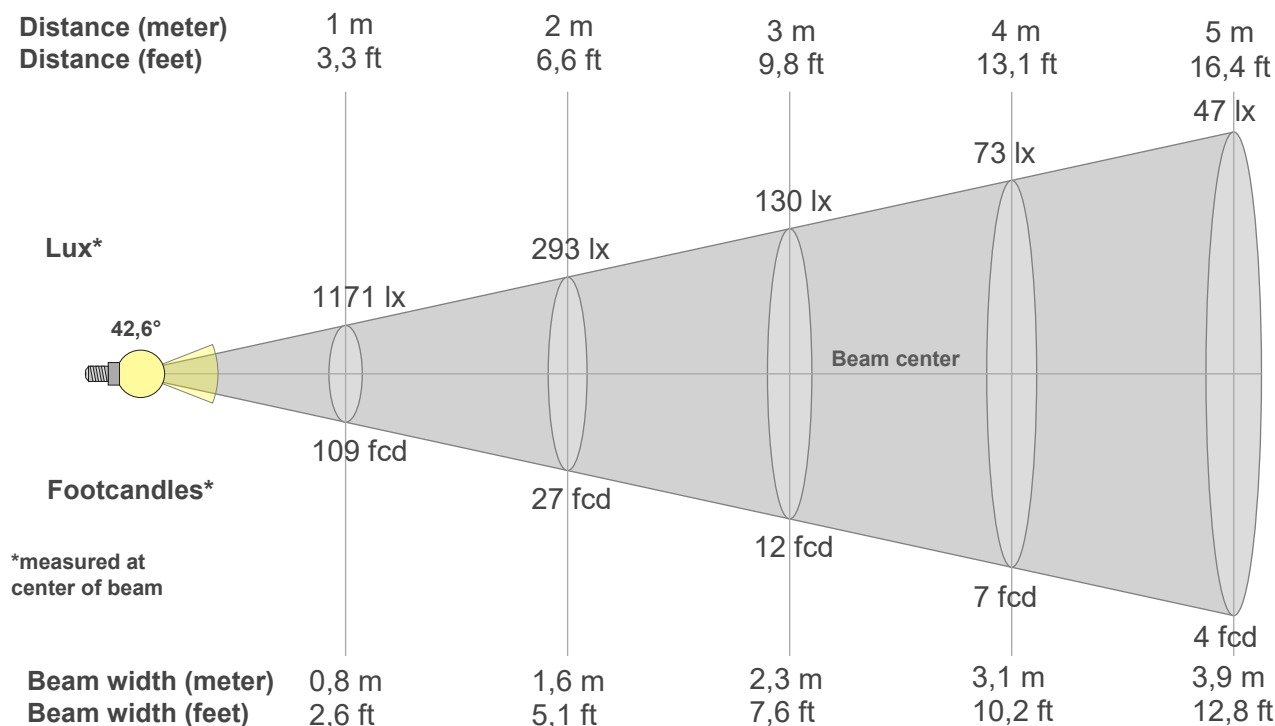
Fidelity index Rf

Rg 95,8

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	88	-3%	2%
2	95	-1%	2%
3	93	-2%	-1%
4	92	-3%	-2%
5	83	-11%	-3%
6	90	-7%	-1%
7	90	-7%	1%
8	82	-6%	9%
9	81	-4%	17%
10	78	1%	16%
11	84	5%	8%
12	95	3%	-1%
13	90	3%	-5%
14	79	10%	-8%
15	84	3%	-9%
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
1171lx	293lx	130lx	73lx	47lx	33lx	24lx	18lx	14lx	12lx	10lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx
108,8fcd	27,2fcd	12,1fcd	6,8fcd	4,4fcd	3fcd	2,2fcd	1,7fcd	1,3fcd	1,1fcd	0,9fcd	0,8fcd	0,6fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	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°
1171	1176	1179	1138	959	673	395	233	151	113	87	74	71	72	77	78	68	68	69	57
100%	100%	101%	97%	82%	58%	34%	20%	13%	10%	7%	6%	6%	6%	7%	7%	6%	6%	6%	5%

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°
1171	1175	1179	1186	1198	1211	1230	1254	1283	1321	1367	1422	1485	1552	1611	1656	1669	1640	1561	1436
100%	100%	101%	101%	102%	103%	105%	107%	110%	113%	117%	121%	127%	133%	138%	142%	143%	140%	133%	123%

Intensities in 180° c-plane

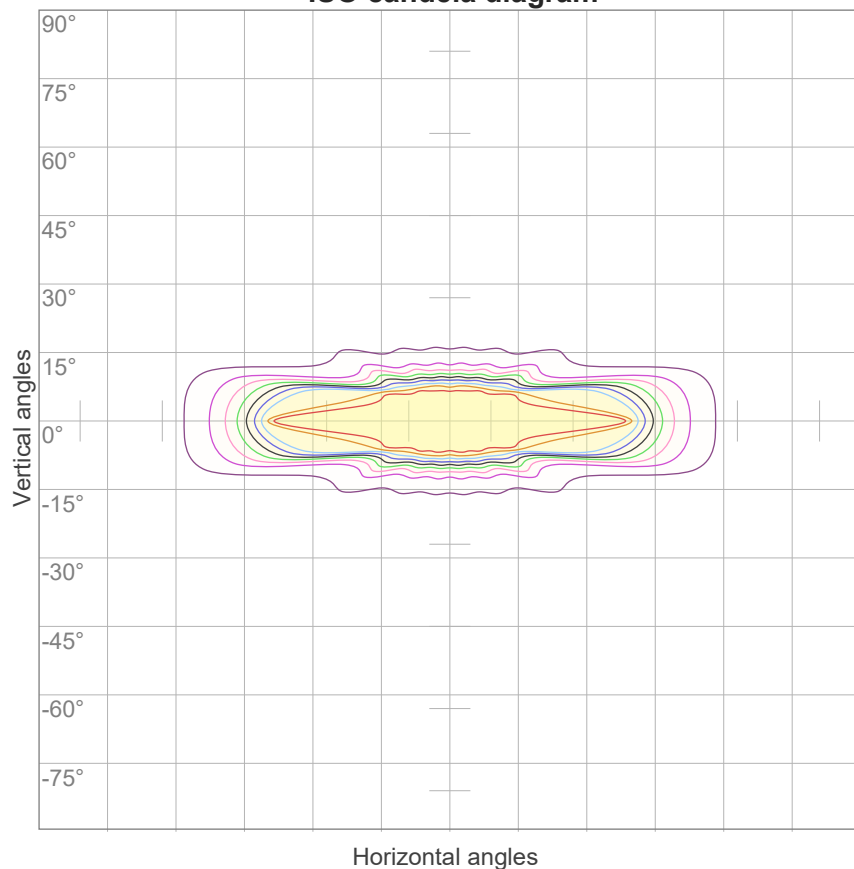
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1171	1176	1179	1138	959	673	395	233	151	113	87	74	71	72	77	78	68	68	69	57
100%	100%	101%	97%	82%	58%	34%	20%	13%	10%	7%	6%	6%	6%	7%	7%	6%	6%	6%	5%

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°
1171	1175	1179	1186	1198	1211	1230	1254	1283	1321	1367	1422	1485	1552	1611	1656	1669	1640	1561	1436
100%	100%	101%	101%	102%	103%	105%	107%	110%	113%	117%	121%	127%	133%	138%	142%	143%	140%	133%	123%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
42,6°	64,9°	128,7°	90,3%	76,6%

ISO candela diagram



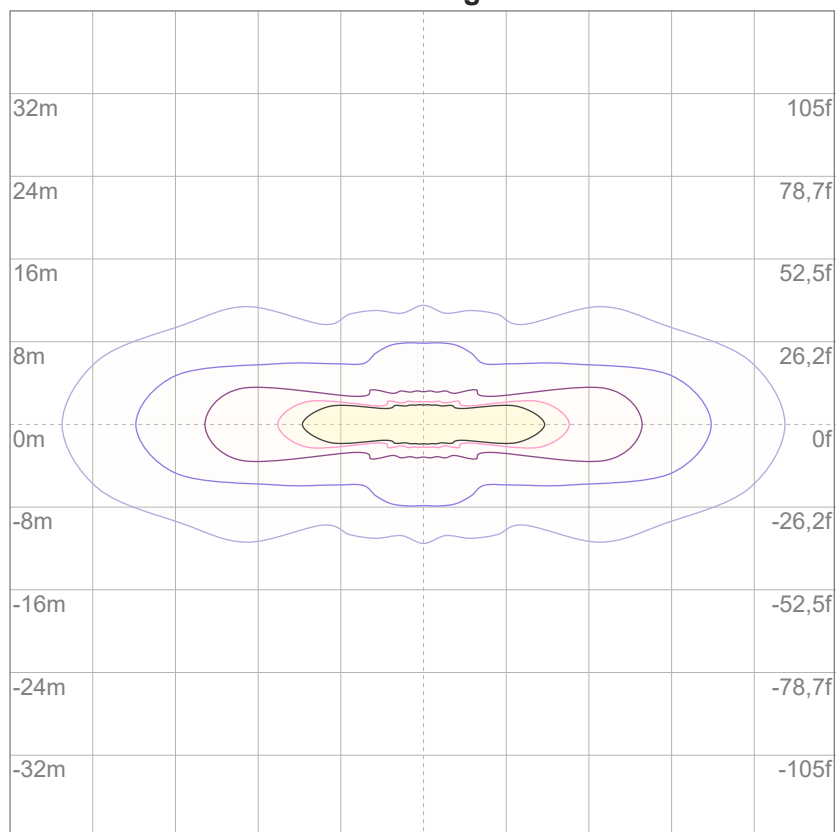
10%	117 cd
20%	234 cd
30%	351 cd
40%	468 cd
50%	585 cd
60%	702 cd
70%	819 cd
80%	936 cd
90%	1054 cd

Conditions:

Number of c-planes: 16

Candela at center: 1171 cd

ISO lux diagram



3%	0,351 lx
5%	0,585 lx
10%	1,17 lx
30%	3,51 lx
50%	5,85 lx

Conditions:

Number of c-planes: 16

Lux at center: 11,7 lx

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

Glare Evaluation According to UGR

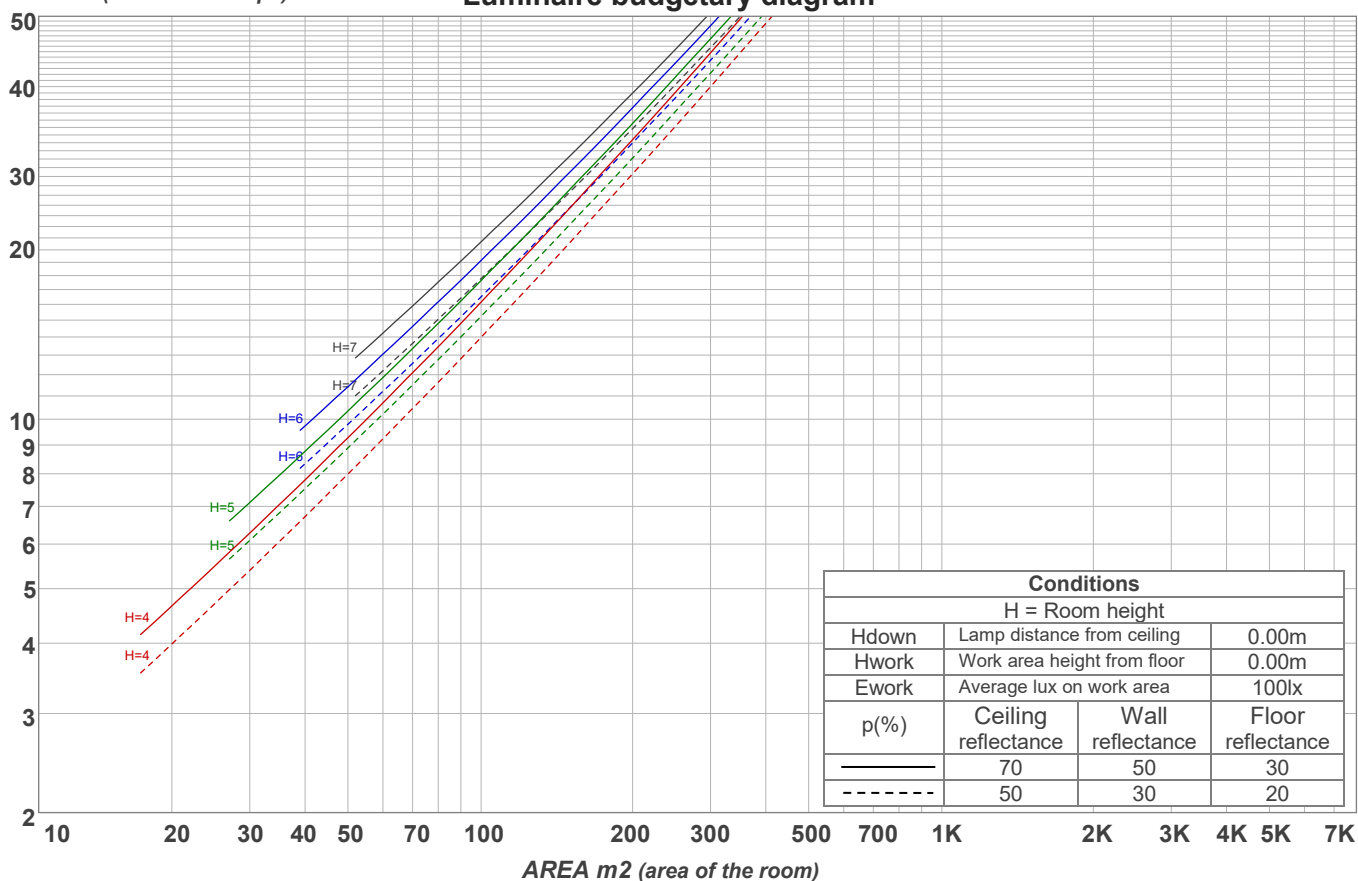
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	10,4	11,2	10,5	11,5	11,7	25,3	26,2	25,5	26,4	26,6
	3H	11,1	12,1	11,5	12,3	12,5	25,5	26,4	25,9	26,7	26,9
	4H	11,8	12,7	12,2	12,9	13,2	25,5	26,5	25,9	26,7	26,9
	6H	12,8	13,6	13,1	13,9	14,3	25,6	26,4	25,9	26,7	27,1
	8H	13,5	14,2	13,8	14,5	14,9	25,6	26,4	25,9	26,7	27,1
	12H	14,2	14,9	14,5	15,2	15,7	25,6	26,3	25,9	26,6	27,1
4H	2H	11,6	12,5	12,0	12,8	13,0	25,0	25,9	25,4	26,1	26,4
	3H	12,7	13,4	13,0	13,7	14,2	25,4	26,1	25,7	26,4	26,9
	4H	13,3	14,0	13,7	14,4	14,9	25,4	26,1	25,8	26,5	27,0
	6H	14,3	15,0	14,8	15,4	15,7	25,4	26,1	25,9	26,5	26,8
	8H	15,0	15,7	15,6	16,0	16,4	25,4	26,1	25,9	26,4	26,8
	12H	15,8	16,3	16,3	16,7	17,2	25,4	25,9	25,9	26,3	26,8
8H	4H	14,0	14,7	14,5	15,0	15,4	25,3	25,9	25,8	26,3	26,6
	6H	15,3	15,8	15,8	16,2	16,8	25,4	25,8	25,9	26,3	26,8
	8H	16,2	16,6	16,7	17,1	17,7	25,4	25,8	26,0	26,3	27,0
	12H	17,1	17,4	17,7	17,9	18,5	25,5	25,8	26,0	26,3	26,9
12H	4H	14,2	14,7	14,7	15,1	15,5	25,2	25,7	25,7	26,2	26,6
	6H	15,6	16,0	16,1	16,5	17,1	25,4	25,8	25,9	26,3	26,9
	8H	16,5	16,8	17,1	17,3	17,9	25,4	25,7	26,0	26,2	26,8
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,2					2,7 / -3,5				
S = 1.5H		0,3 / -0,2					4,9 / -4,8				
S = 2.0H		0,3 / -0,5					6,7 / -5,6				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 891 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	111	108	104	101	108	105	102	100	101	98	96	97	95	93	93	91	90	88
2	104	98	93	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	79	76	73	71
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	66	65
5	86	76	69	63	84	75	68	63	72	67	62	70	65	62	69	64	61	59
6	81	70	63	58	79	69	63	58	67	62	57	66	61	57	64	60	56	54
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	60	56	52	50
8	72	61	54	50	71	60	54	49	59	53	49	58	53	49	57	52	48	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	48	43	64	54	47	43	53	47	43	52	46	43	51	46	43	41

LAMPS (number of lamps)

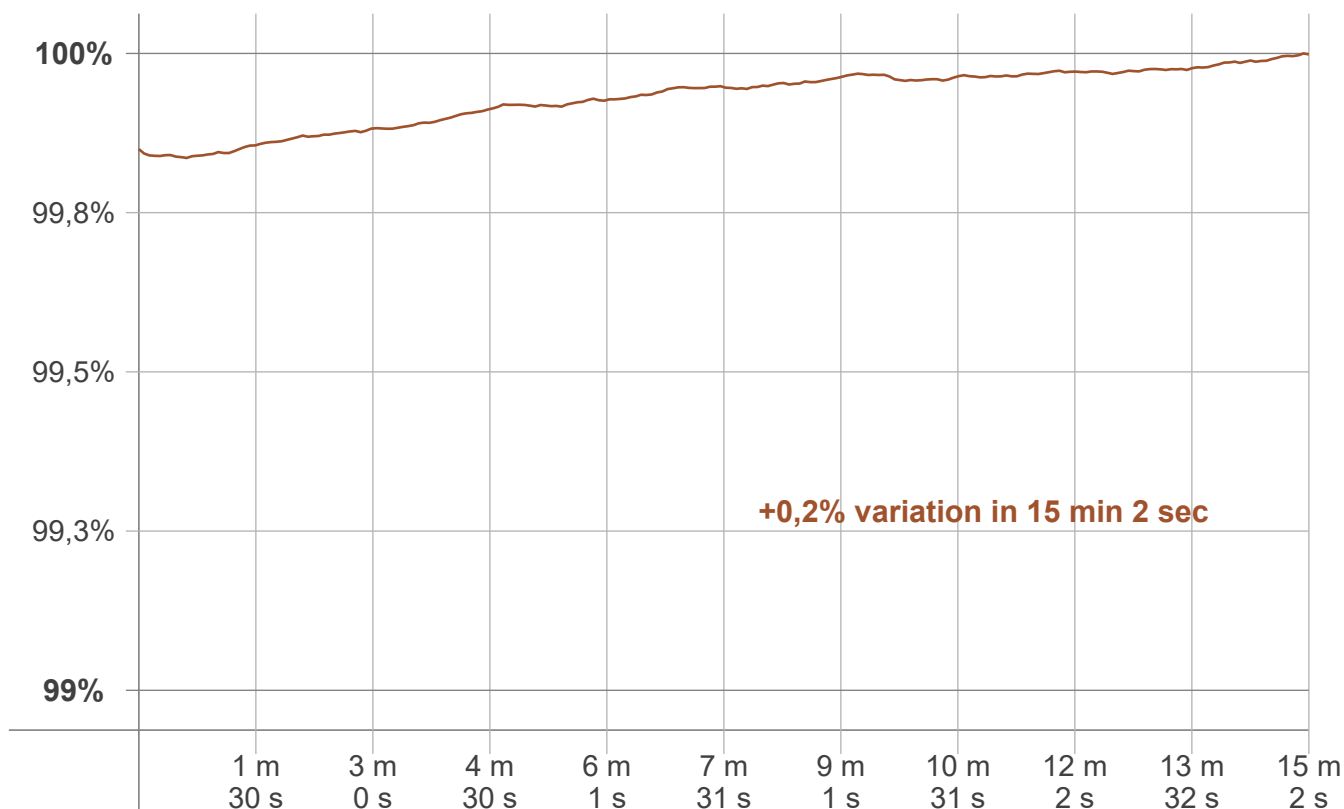
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
106 lm	183 lm	157 lm	167 lm	122 lm	69,0 lm	38,0 lm	20,1 lm	12,6 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
3,74 lm	3,28 lm	1,93 lm	1,74 lm	0,917 lm	0,495 lm	0,365 lm	0,224 lm	2,96 lm

Warmup curve



Warmup result

Warmup time:	Lamp stabilized in 15 min 2 sec
Warmup variation	+0,2%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
6776 K	+4 K	6780 K

Output change

Output start	Output change	Output end
890 lm	+1 lm	891 lm