



Light efficiency:

116 Lumen/Watt

Light quality:

CRI: 93,1

Color temperature:

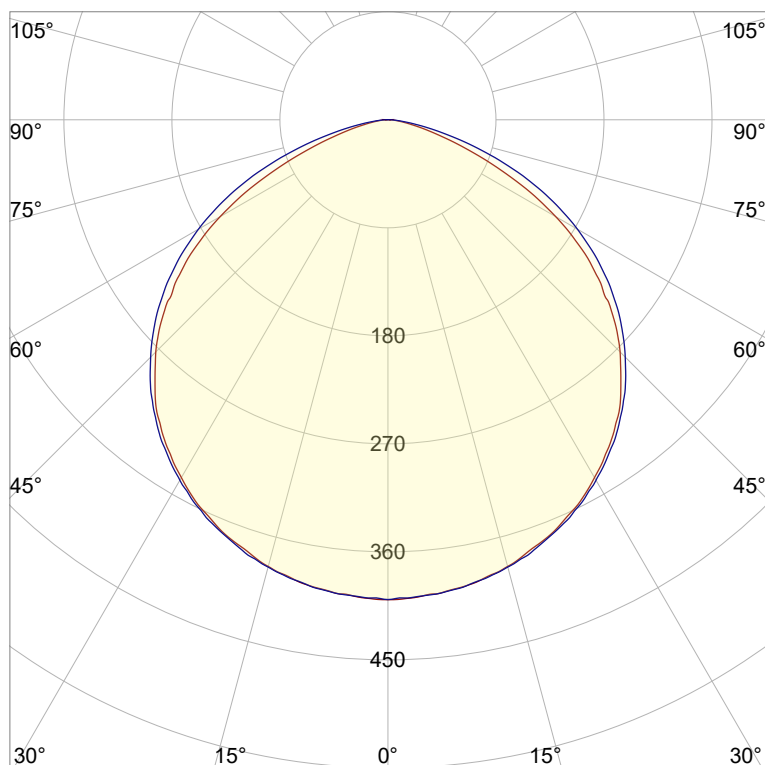
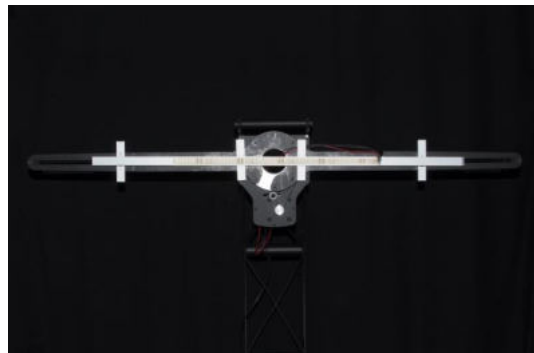
6778 K

Output: 1111 lm

Peak: 400 cd

Power: 9,6 W

PF: 1,0



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

Product name:

Pegasus-5_0510_965_Cover-Flat-Transparent

Item number:

FL/L2C/09E/0510/965/CFT

Date and time:

09.04.2025 12:43:38

Description:

Rank: G60-AE-8GA

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

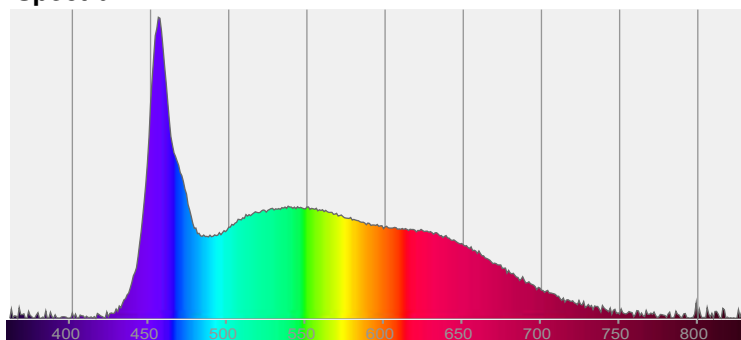
Test Site:

Lichtlabor

Gaustrasse 13

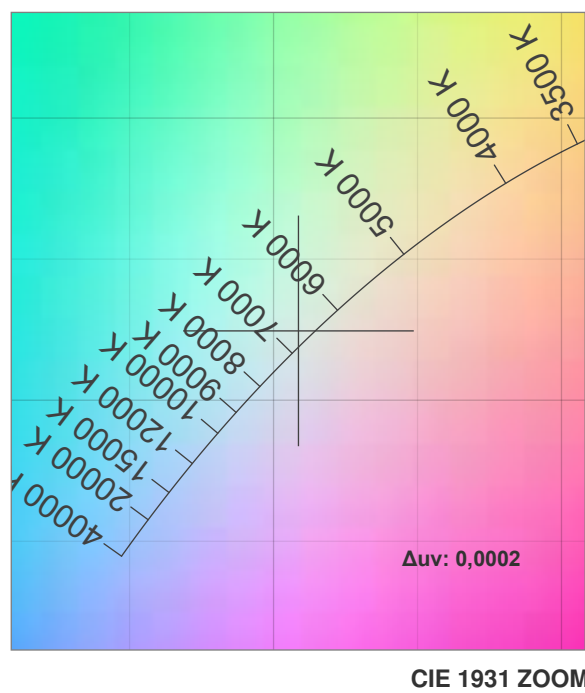
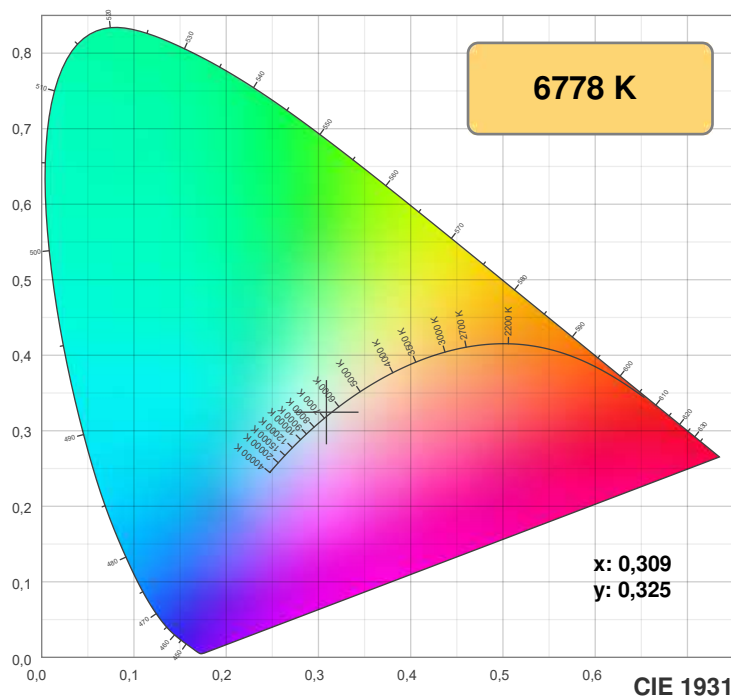
55411 Bingen am Rhein

Spectra



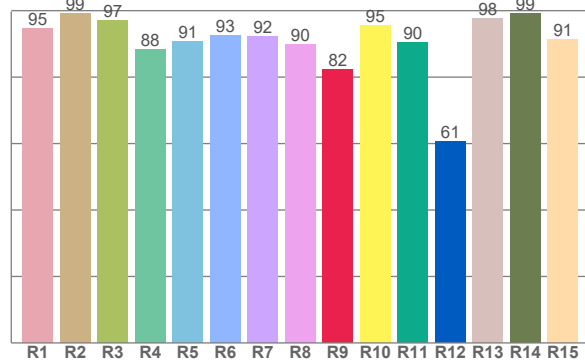
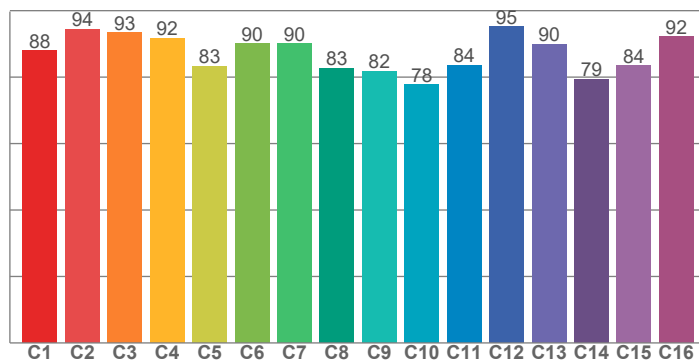
Power

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



TM30: 87,2

CRI: 93,1 (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
94,8	99,3	97,1	88,4	90,7	92,5	92,2	90,0	82,4	95,4	90,3	60,6	97,7	99,1	91,4

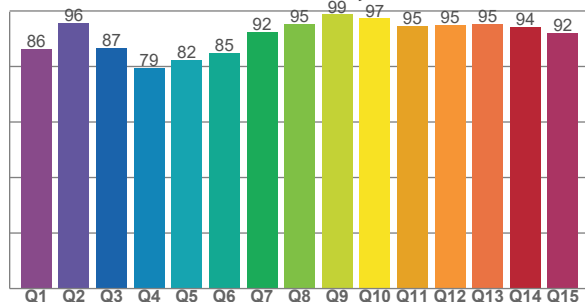
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,0	94,4	93,4	91,8	83,3	90,2	90,2	82,8	81,8	77,8	83,7	95,1	89,9	79,4	83,5	92,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
86,2	95,8	86,8	79,4	82,4	84,7	92,4	95,2	98,8	97,3	94,6	94,9	95,4	94,1	92,1

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
6778 K	93,1	82,4	87,2	95,8	89,6	0,309	0,325	0,197	0,310	0,0002

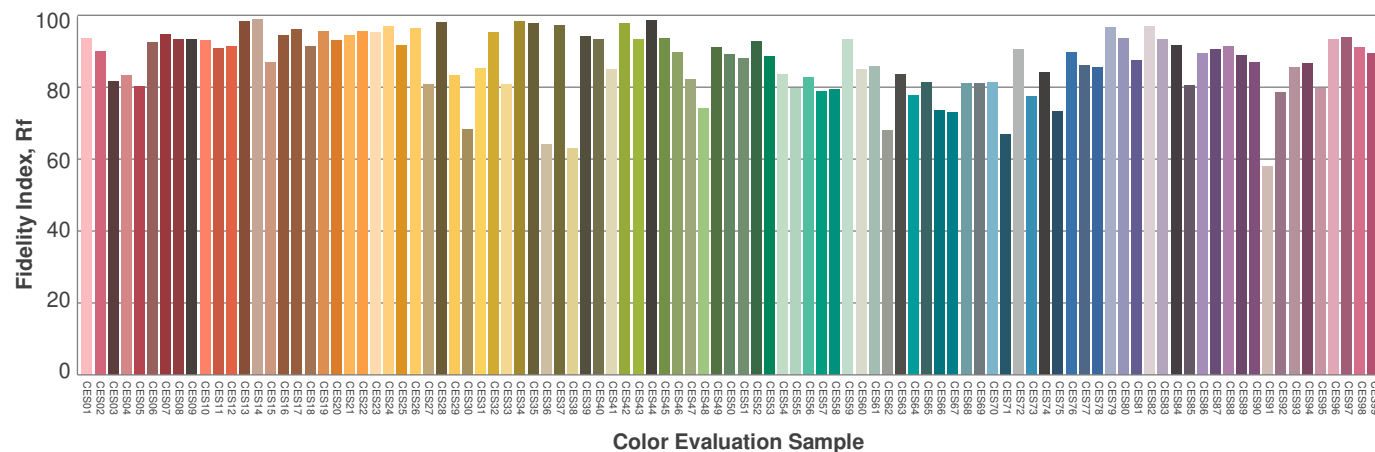
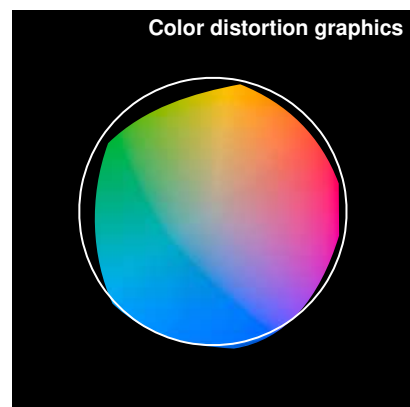
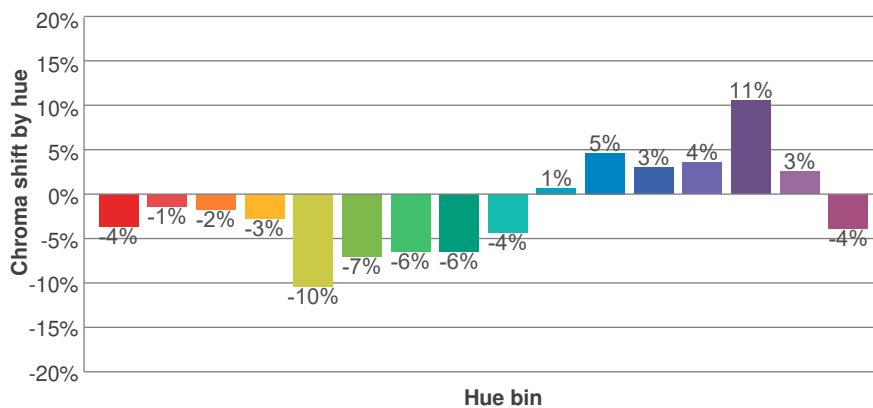
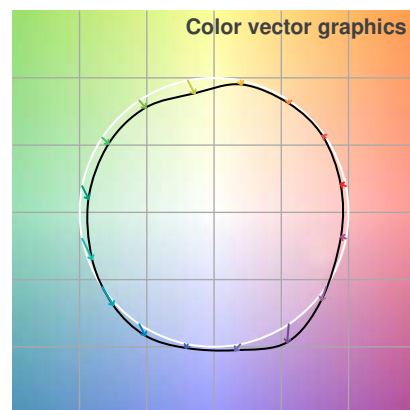
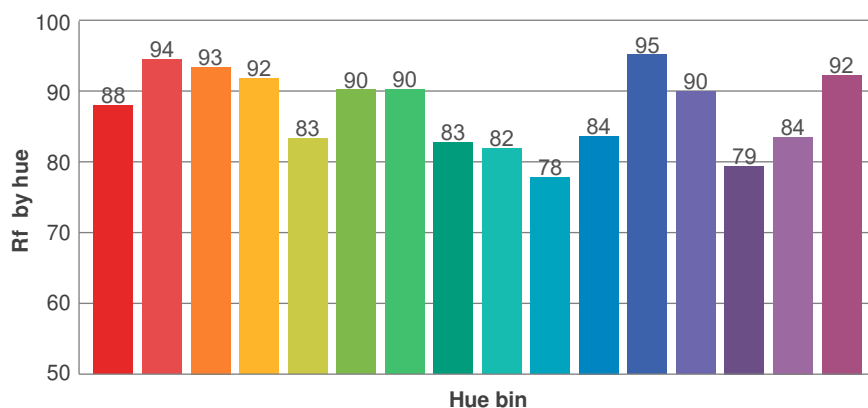
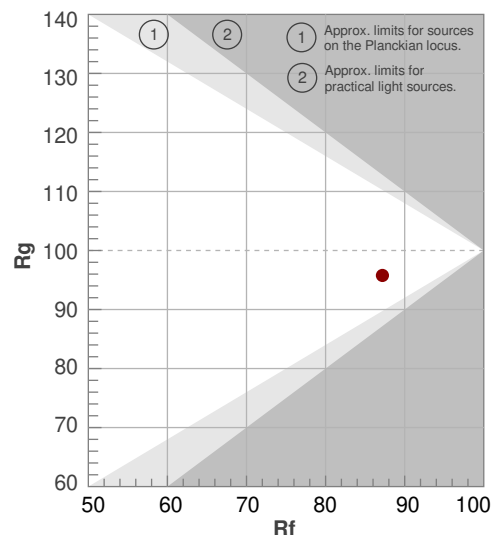
Rf 87,2

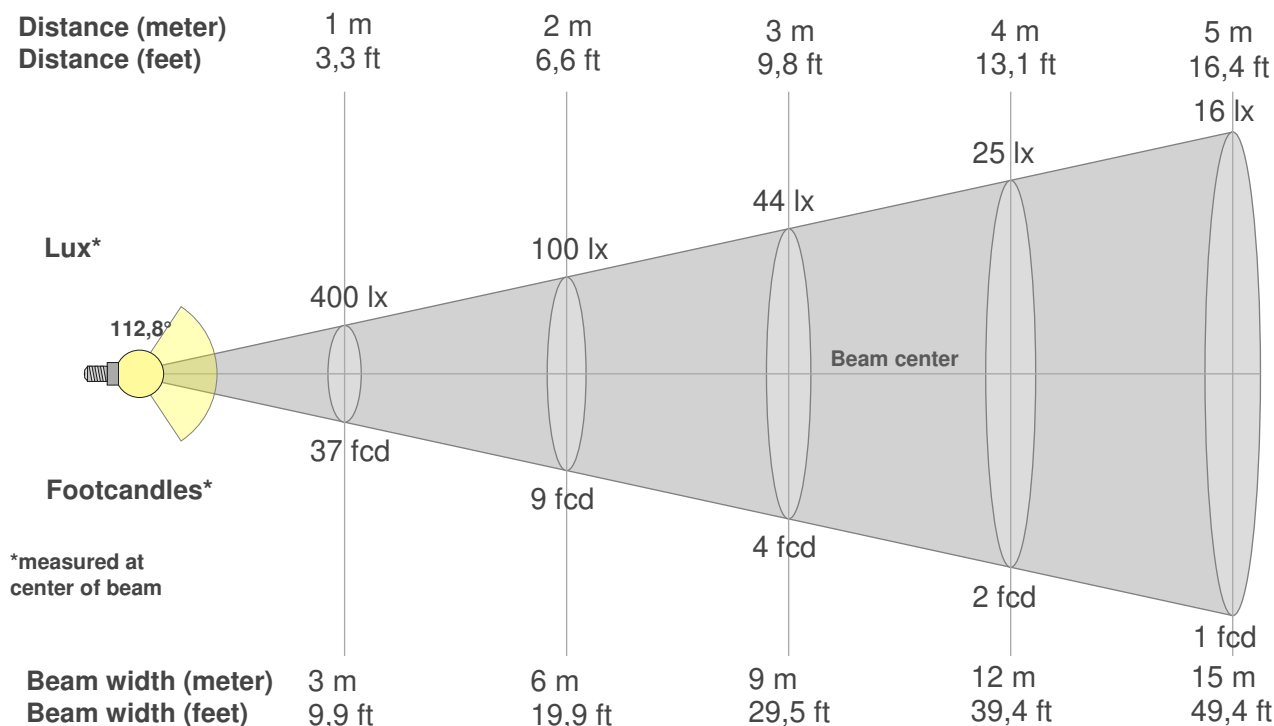
Fidelity index Rf

Rg 95,8

Gamut 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	78	1%	16%
11	84	5%	8%
12	95	3%	-1%
13	90	4%	-5%
14	79	11%	-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	397	393	385	374	361	344	325	302	273	241	205	161	113	67	35	16	6	2	0
100%	99%	98%	96%	94%	90%	86%	81%	75%	68%	60%	51%	40%	28%	17%	9%	4%	2%	0%	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°
400	397	393	386	375	363	347	328	305	280	251	218	182	142	99	57	26	9	1	1
100%	99%	98%	97%	94%	91%	87%	82%	76%	70%	63%	55%	46%	36%	25%	14%	7%	2%	0%	0%

Intensities in 180° c-plane

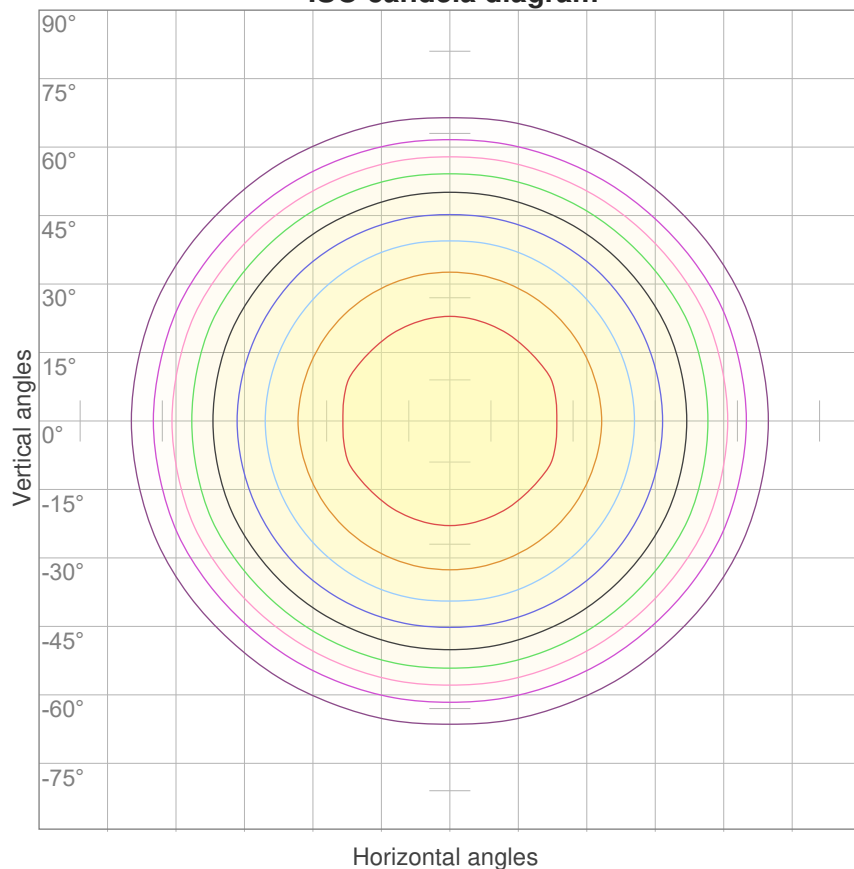
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
400	397	393	385	374	361	344	325	302	273	241	205	161	113	67	35	16	6	2	0
100%	99%	98%	96%	94%	90%	86%	81%	75%	68%	60%	51%	40%	28%	17%	9%	4%	2%	0%	0%

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°
400	397	393	386	375	363	347	328	305	280	251	218	182	142	99	57	26	9	1	1
100%	99%	98%	97%	94%	91%	87%	82%	76%	70%	63%	55%	46%	36%	25%	14%	7%	2%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
112,8°	150,6°	167,1°	82,6%	56,2%

ISO candela diagram



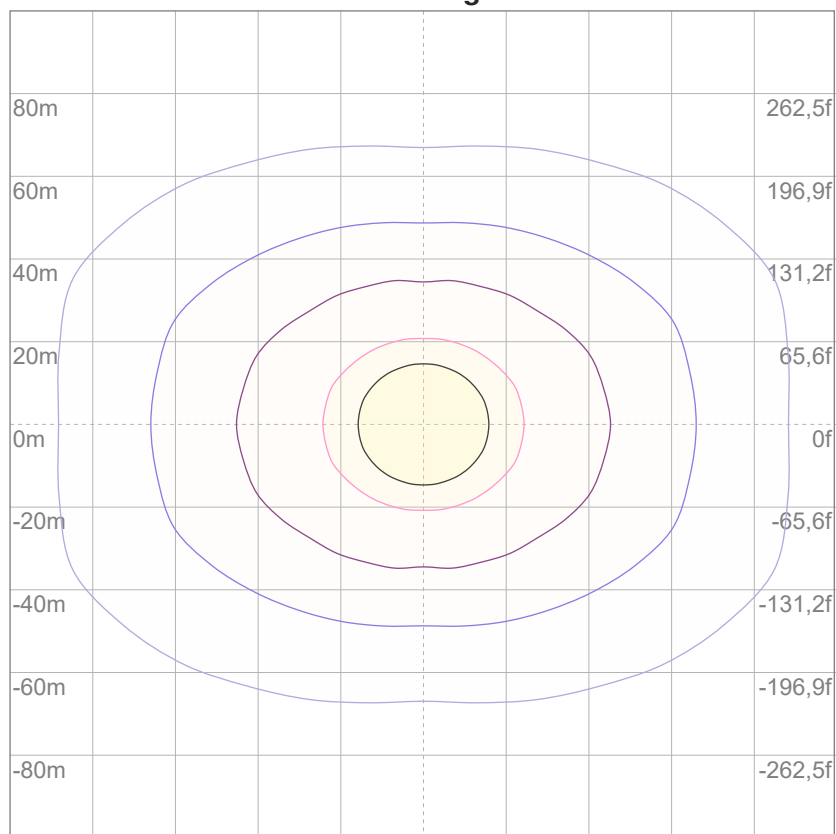
10%	40 cd
20%	80 cd
30%	120 cd
40%	160 cd
50%	200 cd
60%	240 cd
70%	280 cd
80%	320 cd
90%	360 cd

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

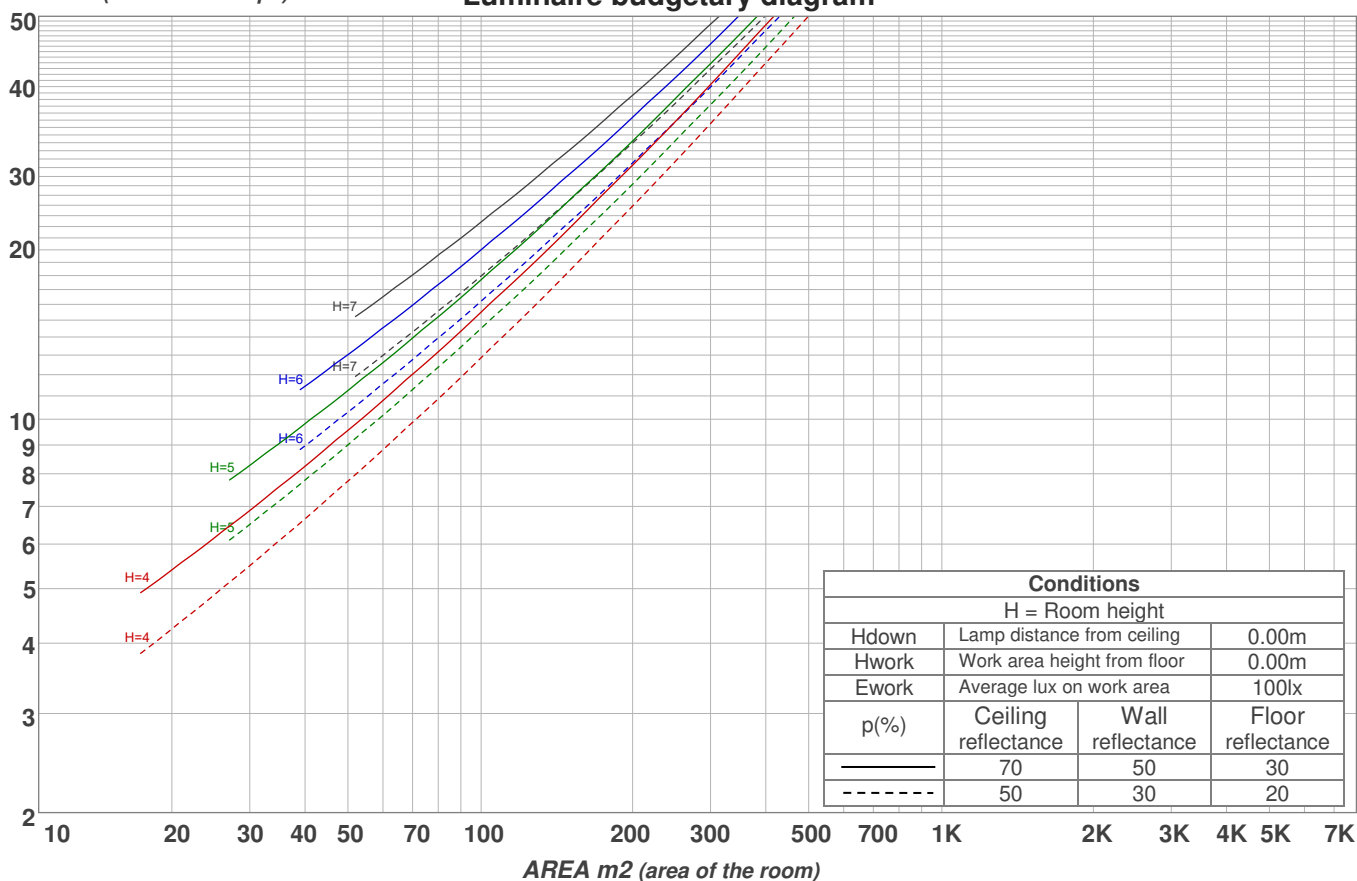
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	26,3	27,5	26,5	27,8	28,0	27,4	28,6	27,7	28,9	29,1
	3H	26,9	28,1	27,3	28,4	28,6	28,6	29,8	29,0	30,1	30,3
	4H	27,0	28,1	27,4	28,4	28,7	29,0	30,1	29,4	30,4	30,7
	6H	27,0	28,1	27,4	28,3	28,7	29,2	30,2	29,5	30,5	30,9
	8H	27,0	28,0	27,3	28,3	28,7	29,2	30,2	29,6	30,5	30,9
	12H	27,0	27,9	27,3	28,3	28,7	29,2	30,1	29,6	30,5	30,9
4H	2H	26,8	28,0	27,2	28,2	28,5	27,7	28,9	28,1	29,2	29,4
	3H	27,6	28,6	28,0	28,9	29,4	29,2	30,1	29,5	30,4	30,9
	4H	27,7	28,6	28,1	29,0	29,5	29,5	30,4	30,0	30,8	31,3
	6H	27,7	28,6	28,2	28,9	29,3	29,7	30,6	30,2	30,9	31,3
	8H	27,7	28,5	28,2	28,8	29,2	29,8	30,5	30,3	30,9	31,3
	12H	27,7	28,3	28,2	28,7	29,2	29,8	30,4	30,3	30,8	31,3
8H	4H	27,8	28,6	28,3	28,9	29,3	29,5	30,3	30,0	30,6	31,0
	6H	27,9	28,5	28,4	28,9	29,5	29,8	30,4	30,3	30,8	31,4
	8H	27,9	28,4	28,4	28,9	29,6	29,9	30,4	30,4	30,9	31,5
	12H	27,9	28,3	28,5	28,8	29,4	29,9	30,3	30,5	30,8	31,4
12H	4H	27,8	28,4	28,3	28,8	29,3	29,5	30,1	30,0	30,5	31,0
	6H	27,9	28,4	28,4	28,9	29,5	29,8	30,3	30,3	30,8	31,4
	8H	27,9	28,3	28,5	28,8	29,4	29,9	30,3	30,4	30,8	31,4
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,2 / -0,3					0,1 / -0,1				
S = 1.5H		0,5 / -0,9					0,3 / -0,5				
S = 2.0H		1,2 / -2,1					1,0 / -1,3				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1111 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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	70	63	56	68	61	56	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

LAMPS (number of lamps)

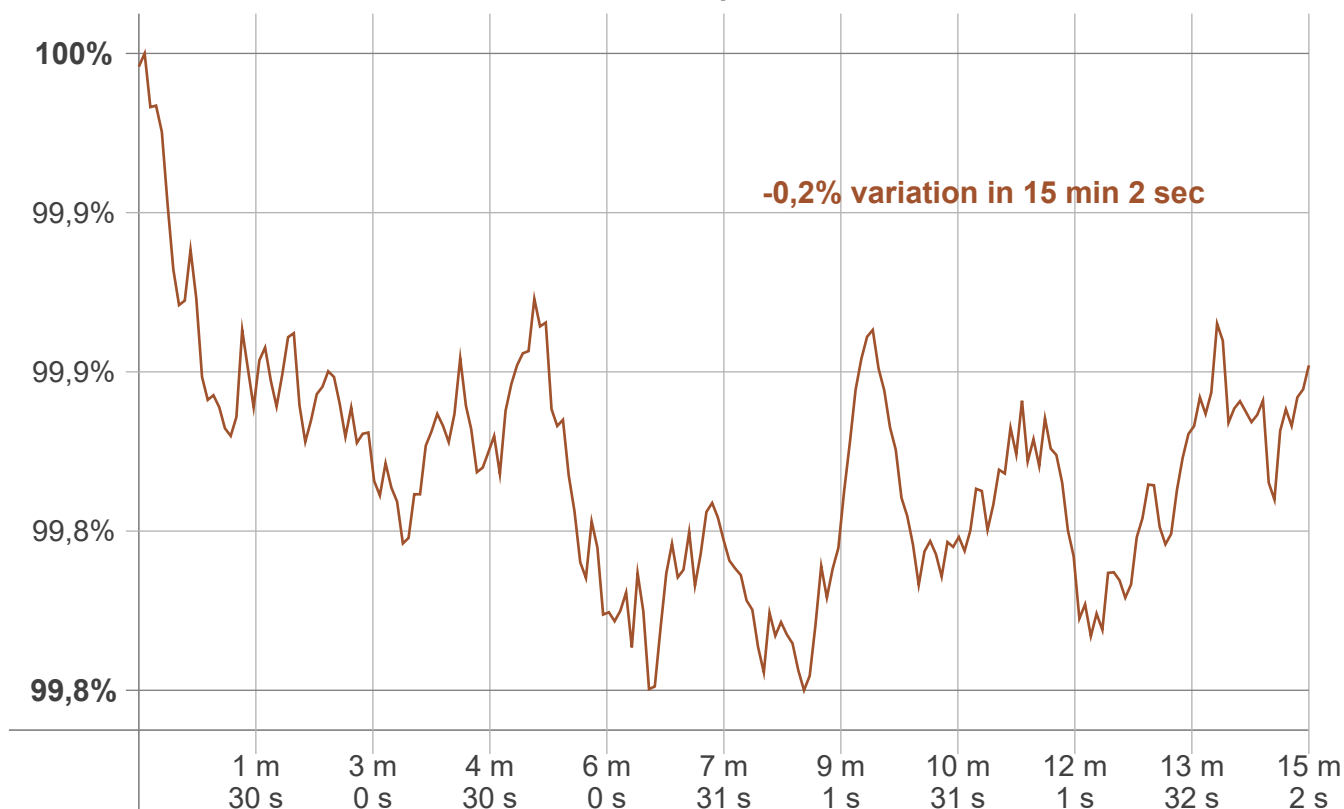
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
36,3 lm	110 lm	165 lm	206 lm	213 lm	188 lm	129 lm	49,6 lm	10,1 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1,32 lm	0,793 lm	0,441 lm	0,398 lm	0,285 lm	0,188 lm	0,139 lm	0,085 lm	0,744 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
6777 K	+1 K	6778 K

Output change

Output start	Output change	Output end
1111 lm	-1 lm	1111 lm