

Light efficiency:

89 Lumen/Watt

Light quality:

CRI: 92,9

Color temperature:

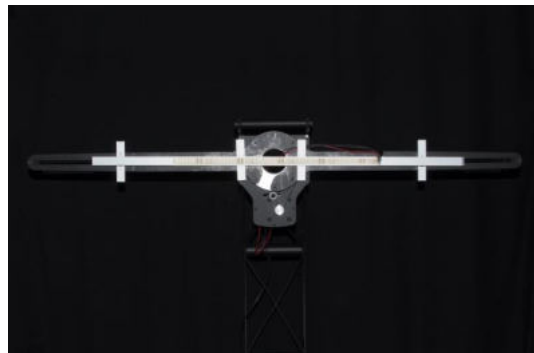
2737 K

Output: 897 lm

Peak: 353 cd

Power: 10,1 W

PF: 1,0



Product name:

Pegasus-5_0510_927_Cover-Flat-Frosted

Item number:

NP/L2C/09E/0510/927/CFF

Date and time:

09.04.2025 14:31:41

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:

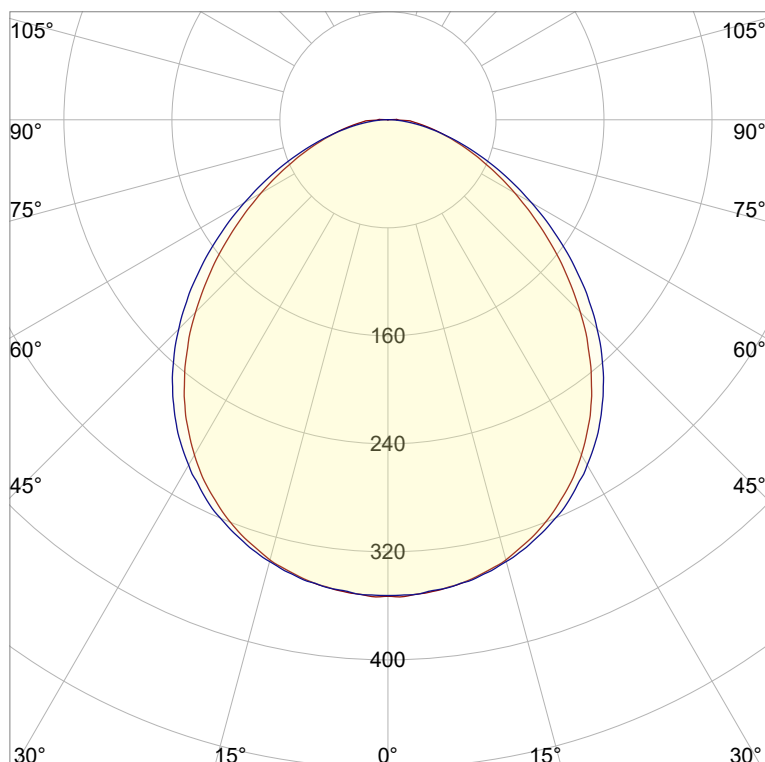
Peter Ulrich

Test Site:

Lichtlabor

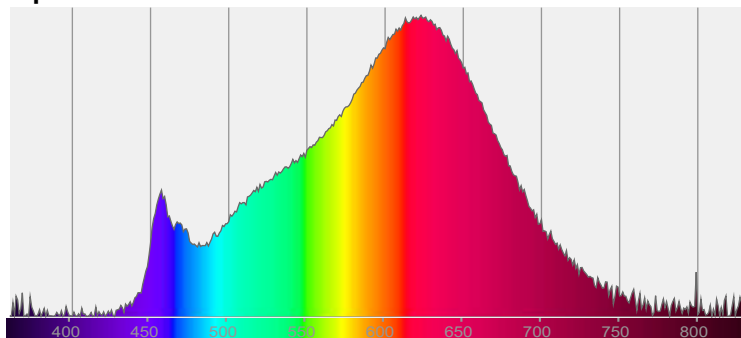
Gaustrasse 13

55411 Bingen am Rhein

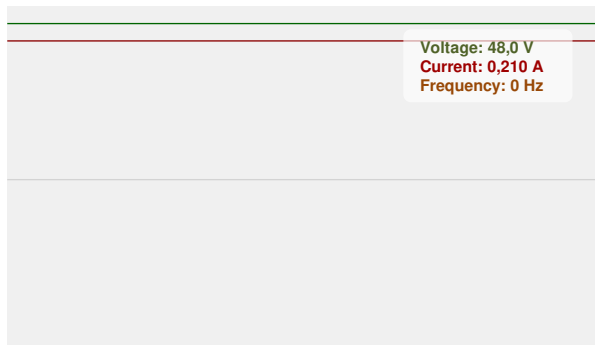


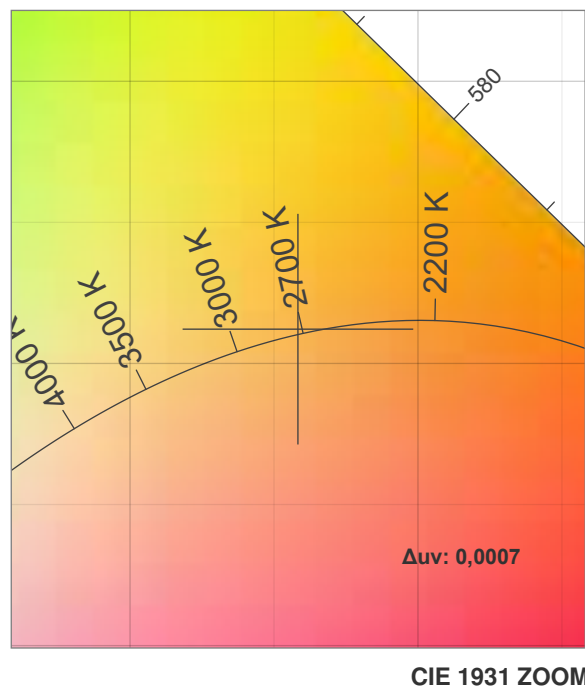
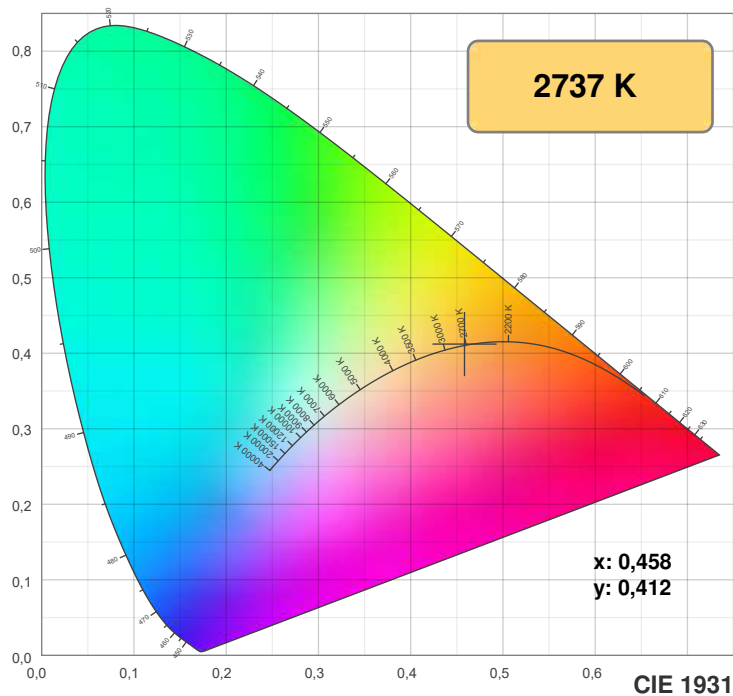
CIE 1931
x: 0,458
y: 0,412

Spectra

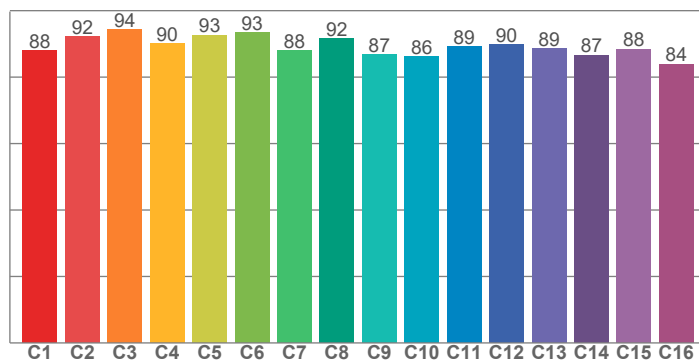


Power

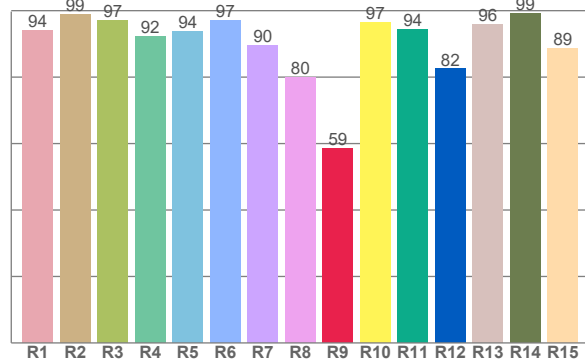




TM30: 89,4



CRI: 92,9 (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
94,2	98,9	97,0	92,3	93,9	97,1	89,6	80,0	58,6	96,6	94,5	82,5	95,8	99,2	88,6

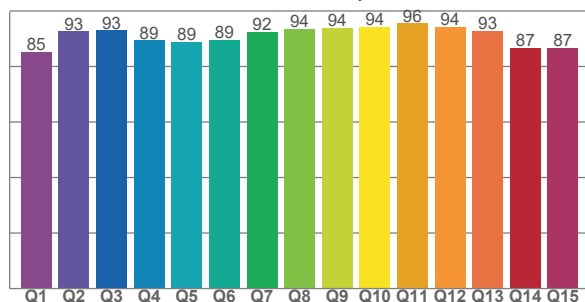
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,1	92,2	94,3	90,0	92,7	93,4	87,9	91,7	86,8	86,3	89,2	89,9	88,5	86,6	88,4	83,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85,3	92,6	93,0	89,3	88,7	89,5	92,3	93,6	93,9	94,3	95,5	94,4	92,9	86,7	86,7

CQS: 90,5



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
2737 K	92,9	58,6	89,4	95,3	90,5	0,458	0,412	0,261	0,352	0,0007

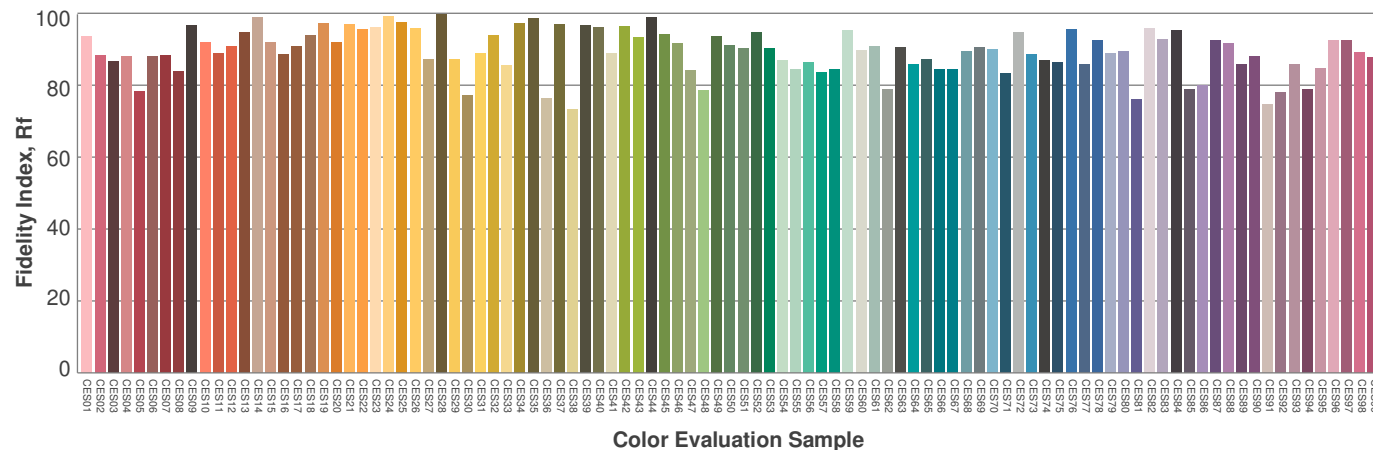
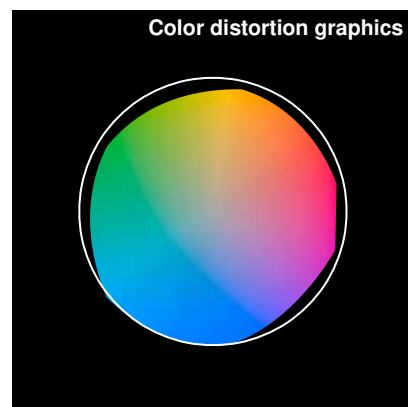
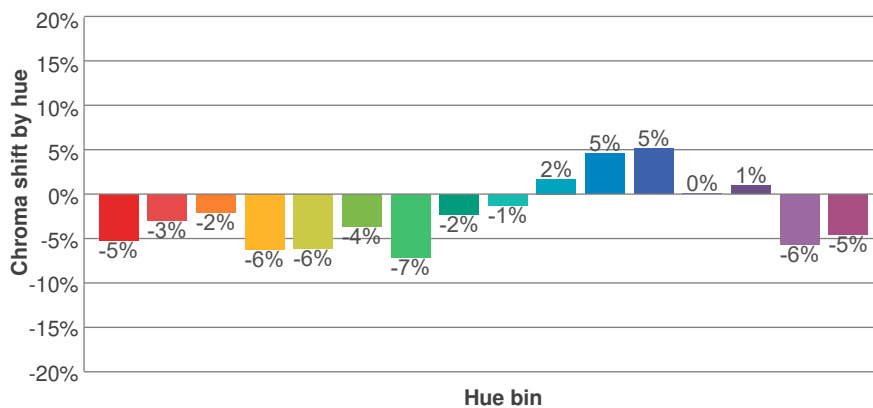
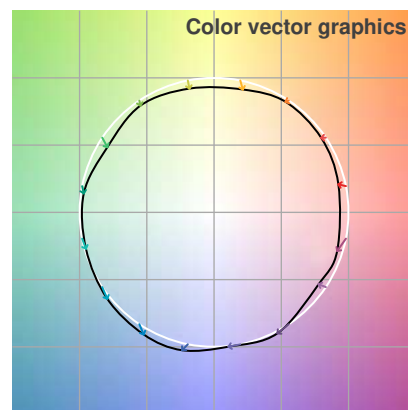
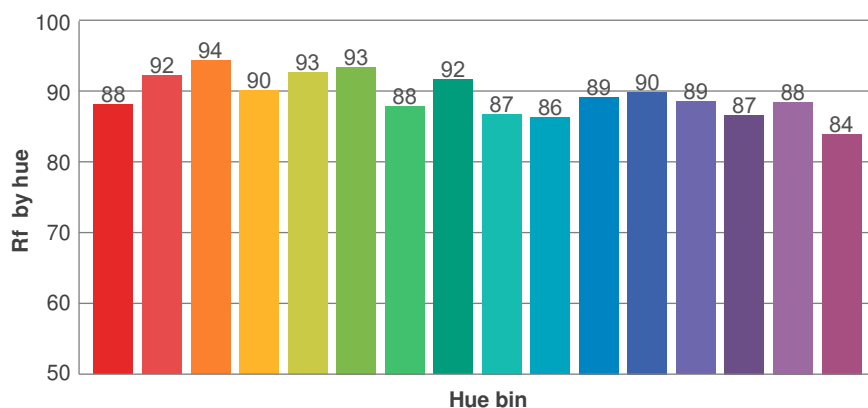
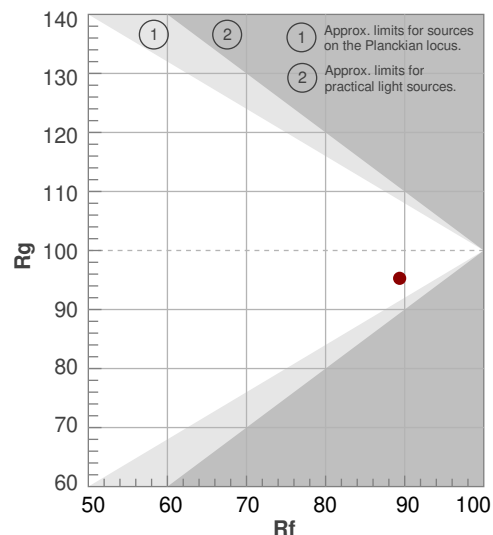
Rf 89,4

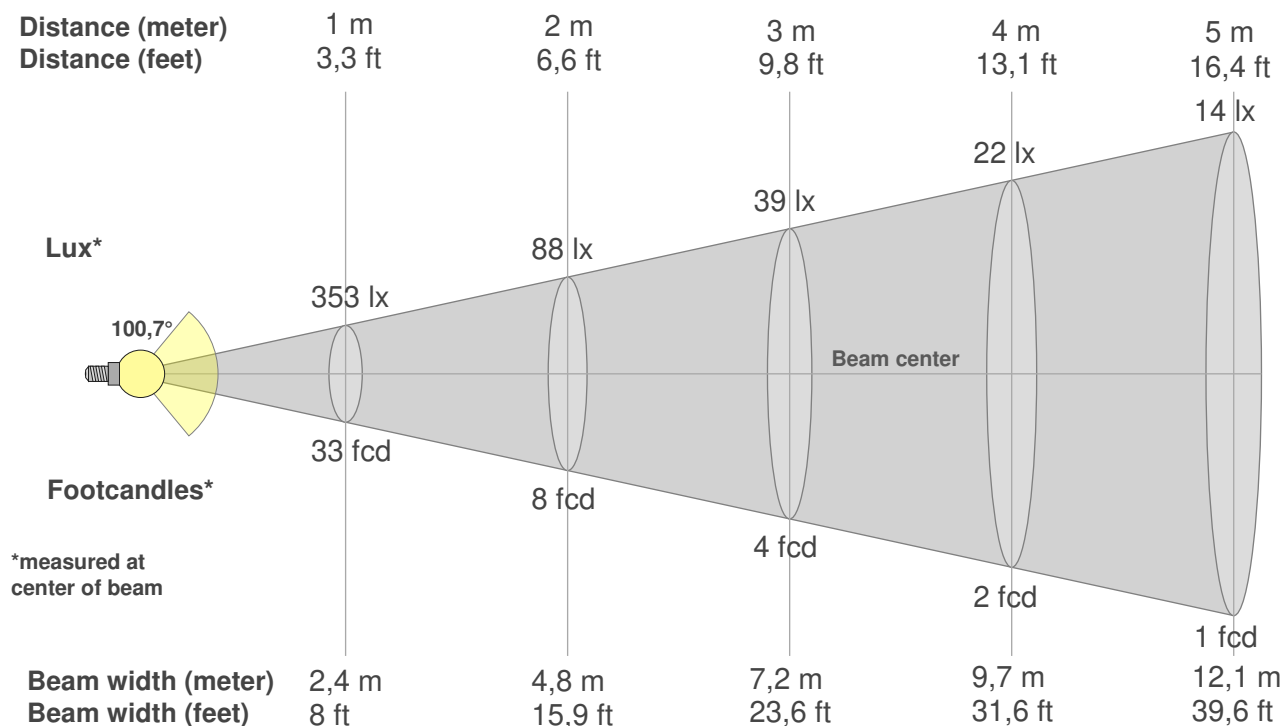
Fidelity index Rf

Rg 95,3

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	88	-5%	2%
2	92	-3%	2%
3	94	-2%	1%
4	90	-6%	-3%
5	93	-6%	0%
6	93	-4%	1%
7	88	-7%	4%
8	92	-2%	5%
9	87	-1%	8%
10	86	2%	9%
11	89	5%	7%
12	90	5%	-3%
13	89	0%	-9%
14	87	1%	-11%
15	88	-6%	-1%
16	84	-5%	-10%





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
353lx	88lx	39lx	22lx	14lx	10lx	7lx	6lx	4lx	4lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx
32,8fcd	8,2fcd	3,6fcd	2fcd	1,3fcd	0,9fcd	0,7fcd	0,5fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	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°
353	351	346	337	324	307	287	262	233	201	169	137	108	83	61	43	29	19	7	0
100%	100%	98%	96%	92%	87%	81%	74%	66%	57%	48%	39%	31%	23%	17%	12%	8%	5%	2%	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°
353	350	347	339	328	314	295	274	248	219	188	155	123	93	66	44	25	11	1	1
100%	99%	98%	96%	93%	89%	84%	78%	70%	62%	53%	44%	35%	26%	19%	12%	7%	3%	0%	0%

Intensities in 180° c-plane

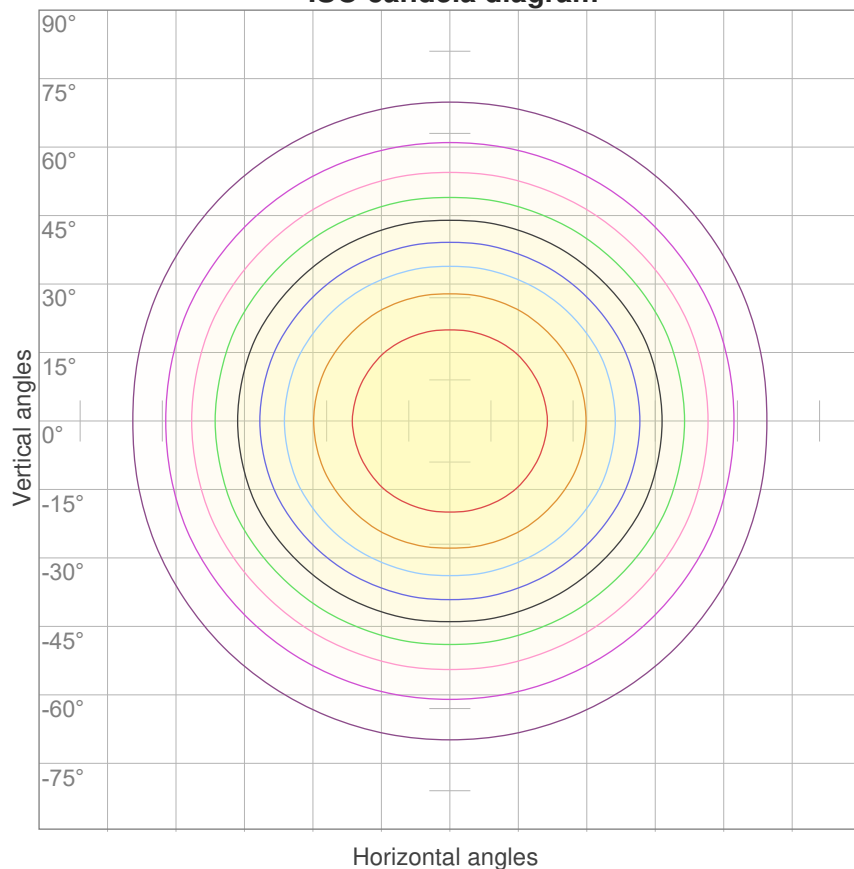
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
353	351	346	337	324	307	287	262	233	201	169	137	108	83	61	43	29	19	7	0
100%	100%	98%	96%	92%	87%	81%	74%	66%	57%	48%	39%	31%	23%	17%	12%	8%	5%	2%	0%

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°
353	350	347	339	328	314	295	274	248	219	188	155	123	93	66	44	25	11	1	1
100%	99%	98%	96%	93%	89%	84%	78%	70%	62%	53%	44%	35%	26%	19%	12%	7%	3%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
100,7°	155,4°	176,9°	81,7%	58,3%

ISO candela diagram



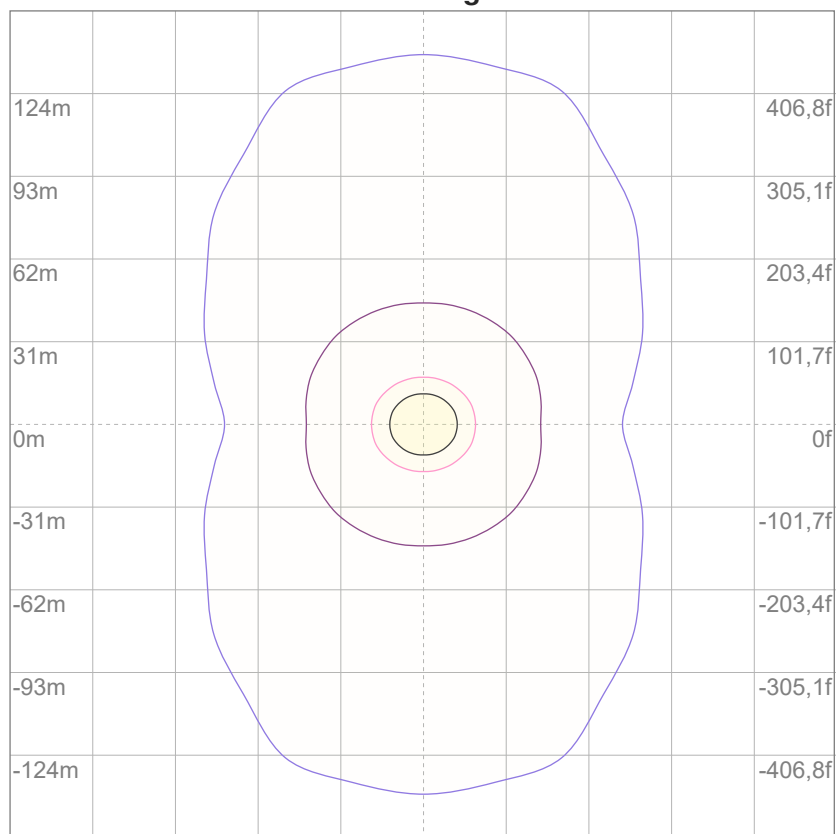
10%	35 cd
20%	71 cd
30%	106 cd
40%	141 cd
50%	176 cd
60%	212 cd
70%	247 cd
80%	282 cd
90%	318 cd

Conditions:

Number of c-planes: 16

Candela at center: 353 cd

ISO lux diagram



3%	0,106 lx
5%	0,176 lx
10%	0,353 lx
30%	1,06 lx
50%	1,76 lx

Conditions:

Number of c-planes: 16

Lux at center: 3,53 lx

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

Mounting height: 10 meters (33 feet)

Glare Evaluation According to UGR

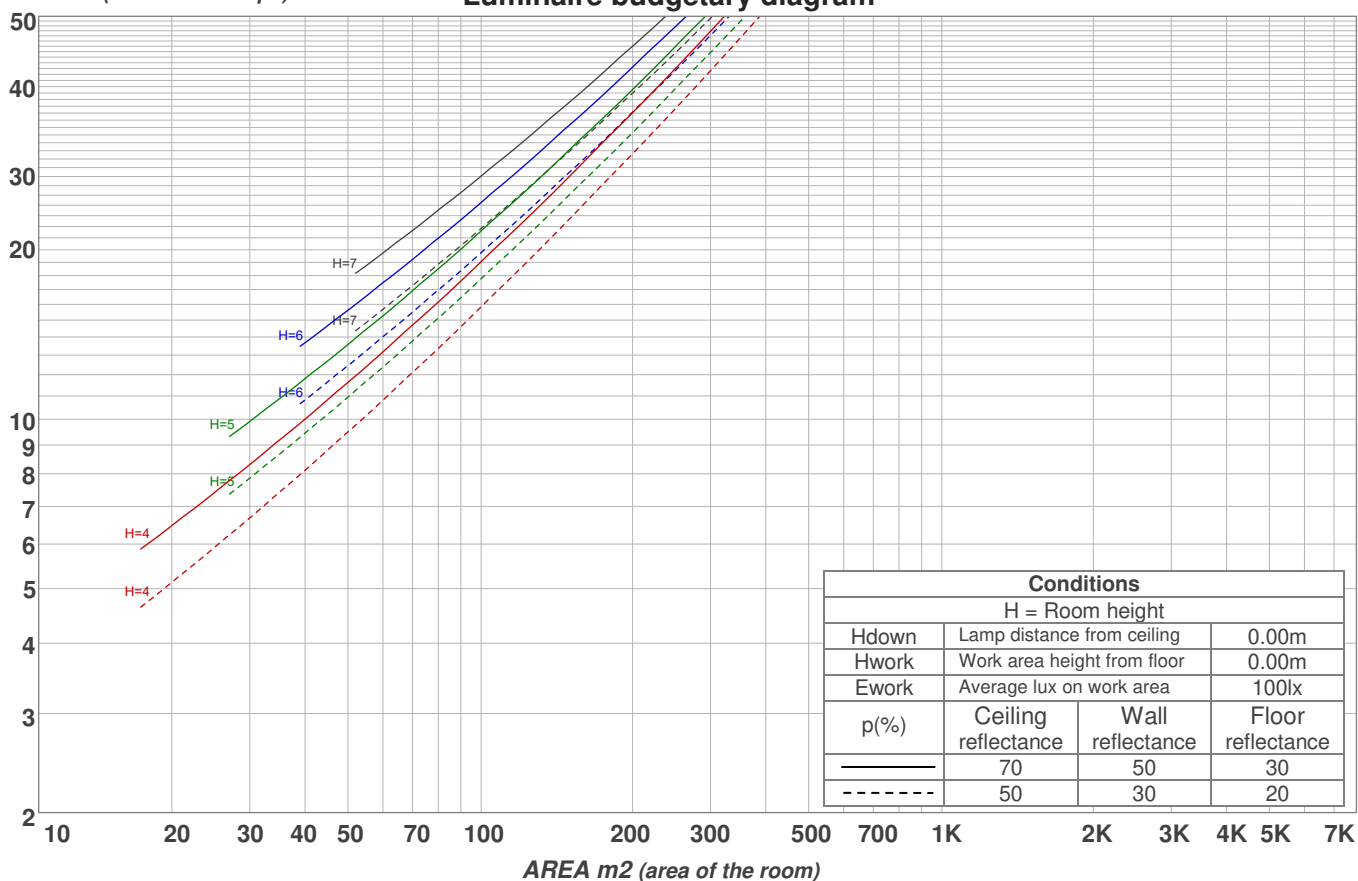
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	24,6	25,8	24,8	26,1	26,3	25,8	27,0	26,0	27,3	27,5
	3H	25,4	26,6	25,8	26,9	27,1	26,9	28,1	27,3	28,4	28,6
	4H	25,8	26,9	26,2	27,2	27,4	27,3	28,5	27,7	28,7	29,0
	6H	26,1	27,1	26,4	27,4	27,7	27,7	28,7	28,0	29,0	29,3
	8H	26,1	27,1	26,5	27,4	27,8	27,8	28,7	28,1	29,0	29,4
	12H	26,2	27,1	26,6	27,5	27,9	27,8	28,7	28,2	29,1	29,5
4H	2H	25,1	26,2	25,5	26,5	26,8	26,1	27,2	26,5	27,5	27,8
	3H	26,2	27,2	26,6	27,5	27,9	27,4	28,4	27,8	28,7	29,2
	4H	26,6	27,4	27,0	27,9	28,4	27,9	28,8	28,3	29,2	29,7
	6H	26,9	27,8	27,4	28,1	28,5	28,3	29,2	28,8	29,5	29,9
	8H	27,0	27,8	27,5	28,2	28,6	28,4	29,2	28,9	29,6	30,0
	12H	27,1	27,8	27,6	28,2	28,7	28,5	29,2	29,0	29,6	30,1
8H	4H	26,8	27,6	27,3	27,9	28,3	28,0	28,8	28,5	29,1	29,5
	6H	27,3	27,8	27,8	28,3	28,9	28,5	29,1	29,0	29,6	30,1
	8H	27,5	28,0	28,0	28,5	29,1	28,8	29,3	29,3	29,8	30,4
	12H	27,7	28,1	28,2	28,6	29,2	28,9	29,3	29,5	29,8	30,4
12H	4H	26,8	27,4	27,3	27,9	28,3	28,0	28,6	28,5	29,1	29,5
	6H	27,3	27,8	27,9	28,4	29,0	28,6	29,1	29,1	29,6	30,2
	8H	27,6	28,0	28,1	28,5	29,1	28,8	29,2	29,4	29,7	30,3
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,2 / -0,2					0,1 / -0,1				
S = 1.5H		0,3 / -0,6					0,3 / -0,5				
S = 2.0H		0,8 / -1,1					0,9 / -1,0				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 897 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	99
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	80	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	50	75	64	56	50	62	54	49	59	53	48	58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	52	47	42	40
7	66	53	45	39	65	53	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	41	35	60	48	40	35	47	40	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	26

LAMPS (number of lamps)

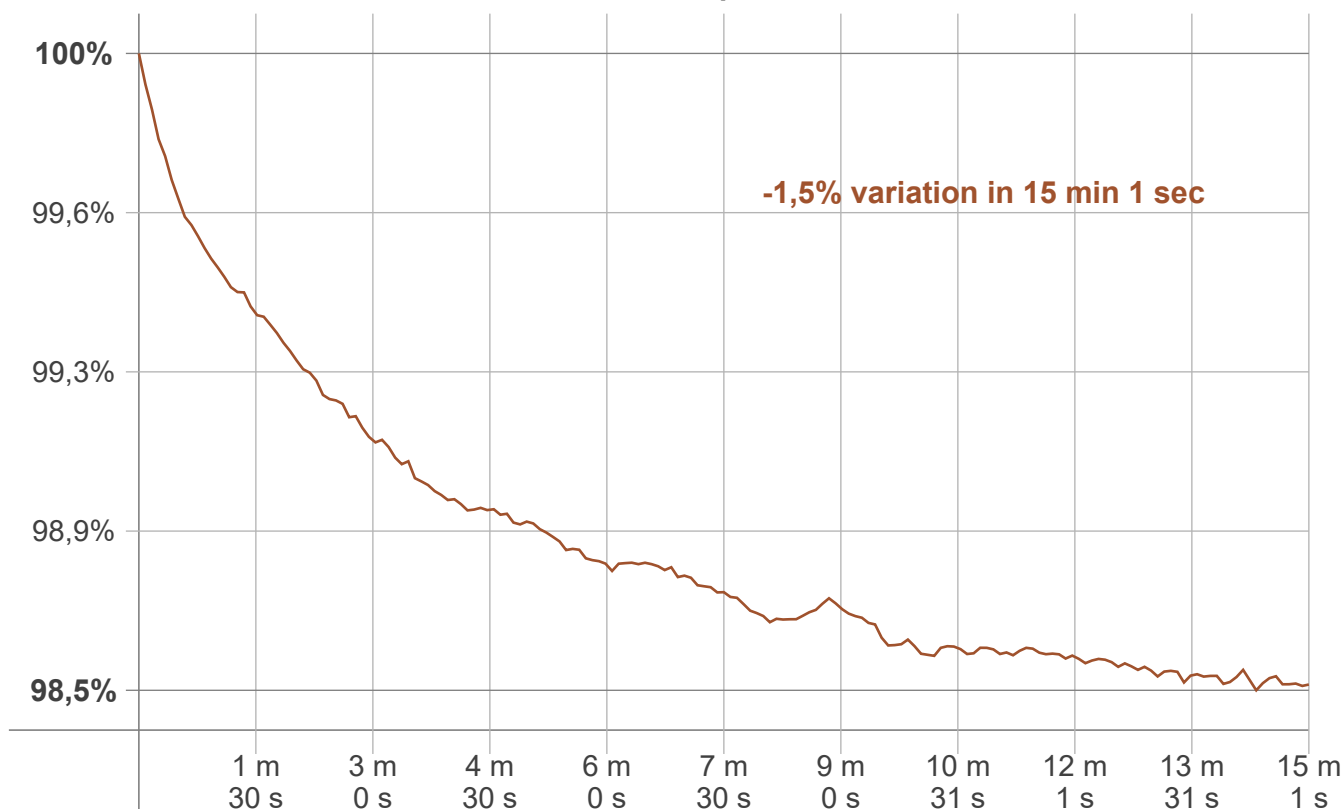
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
33,4 lm	95,3 lm	143 lm	167 lm	162 lm	131 lm	88,0 lm	47,5 lm	17,8 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
4,46 lm	1,47 lm	1,29 lm	1,17 lm	0,938 lm	0,712 lm	0,525 lm	0,321 lm	0,108 lm

Warmup curve



Warmup result

Warmup time:	Lamp stabilized in 15 min 1 sec
Warmup variation	-1,5%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2736 K	+1 K	2737 K

Output change

Output start	Output change	Output end
908 lm	-11 lm	897 lm