

Light efficiency:

101 Lumen/Watt

Light quality:

CRI: 92,8

Color temperature:

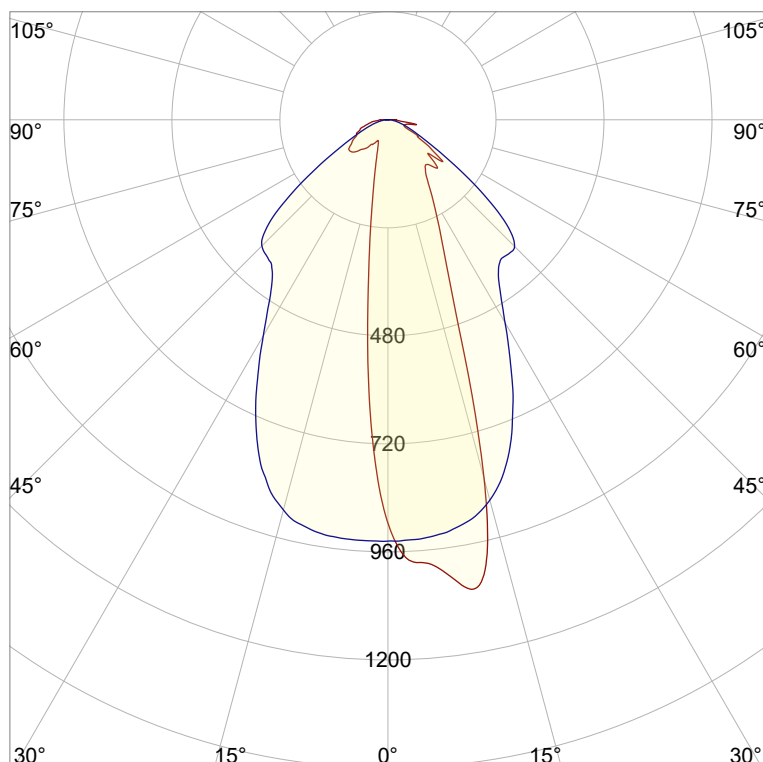
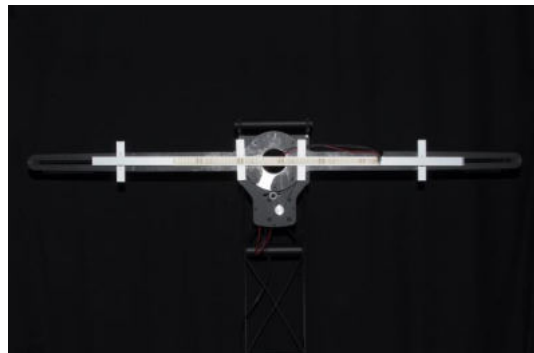
2744 K

Output: 968 lm

Peak: 1217 cd

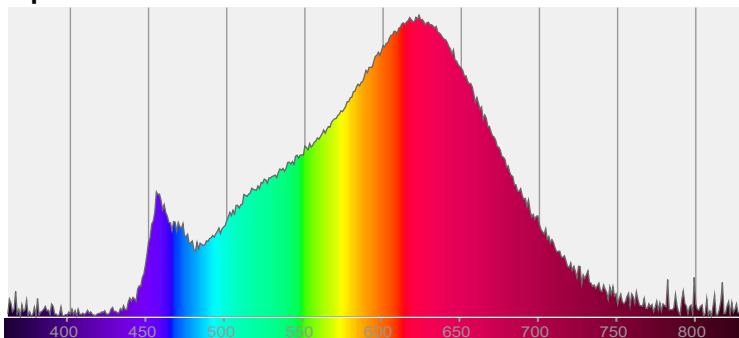
Power: 9,6 W

PF: 1,0

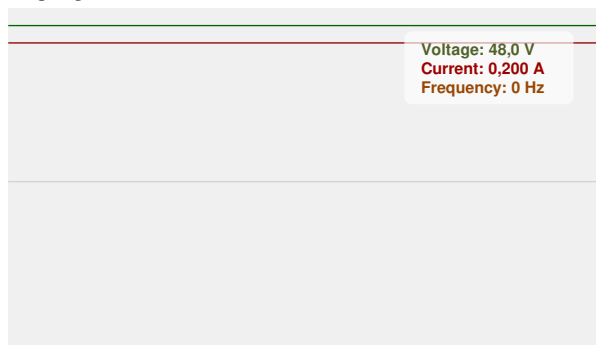


CIE 1931
x: 0,458
y: 0,413

Spectra



Power



Product name:

Pegasus-5_0510_927_Lens-Asymmetric-Frosted-2

Item number:

FL/L2C/09E/0510/927/LAF-2

Date and time:

15.04.2025 09:42:02

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:

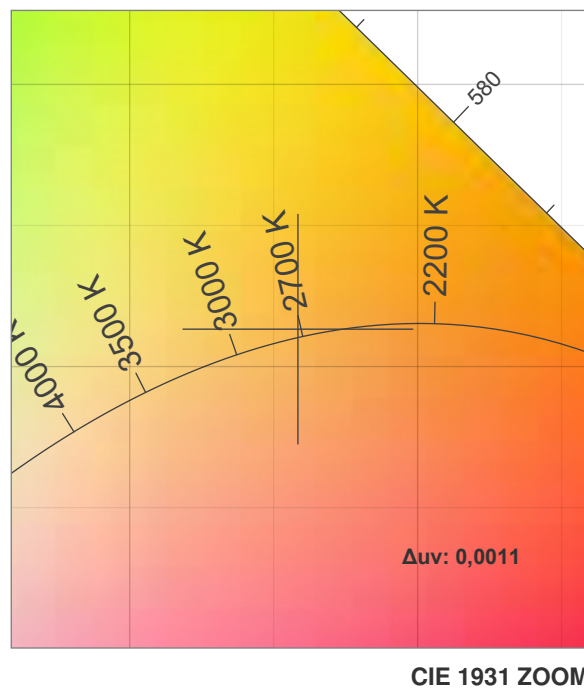
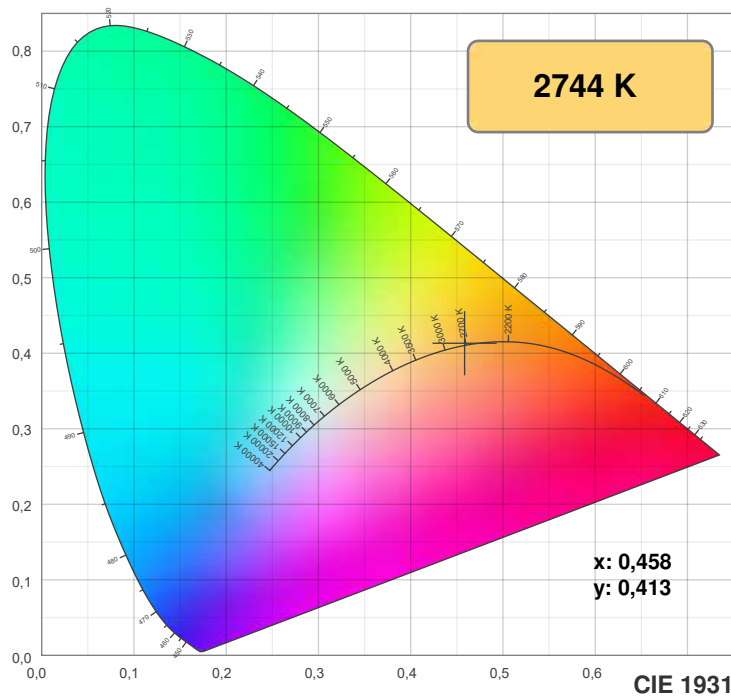
Peter Ulrich

Test Site:

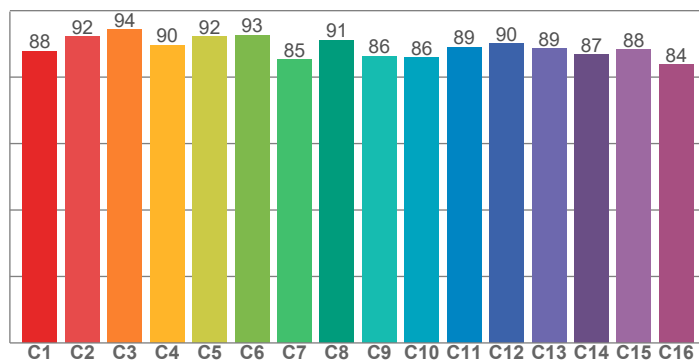
Lichtlabor

Gaustrasse 13

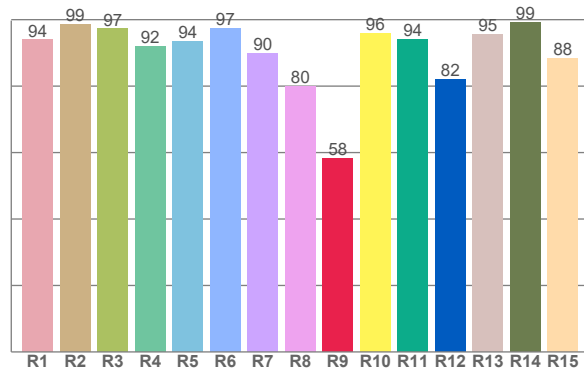
55411 Bingen am Rhein



TM30: 89,1



CRI: 92,8 (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
93,9	98,6	97,2	92,0	93,6	97,3	89,7	80,0	58,1	96,0	94,1	82,1	95,5	99,3	88,3

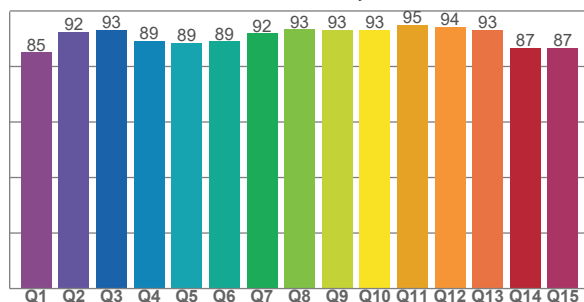
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,9	92,2	94,3	89,7	92,3	92,7	85,4	91,2	86,4	86,0	89,0	90,0	88,5	86,7	88,3	83,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85,0	92,4	93,1	89,3	88,5	89,0	91,9	93,3	93,1	93,2	95,0	94,3	93,0	86,6	86,6

CQS: 90,3



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
2744 K	92,8	58,1	89,1	94,9	90,3	0,458	0,413	0,260	0,352	0,0011

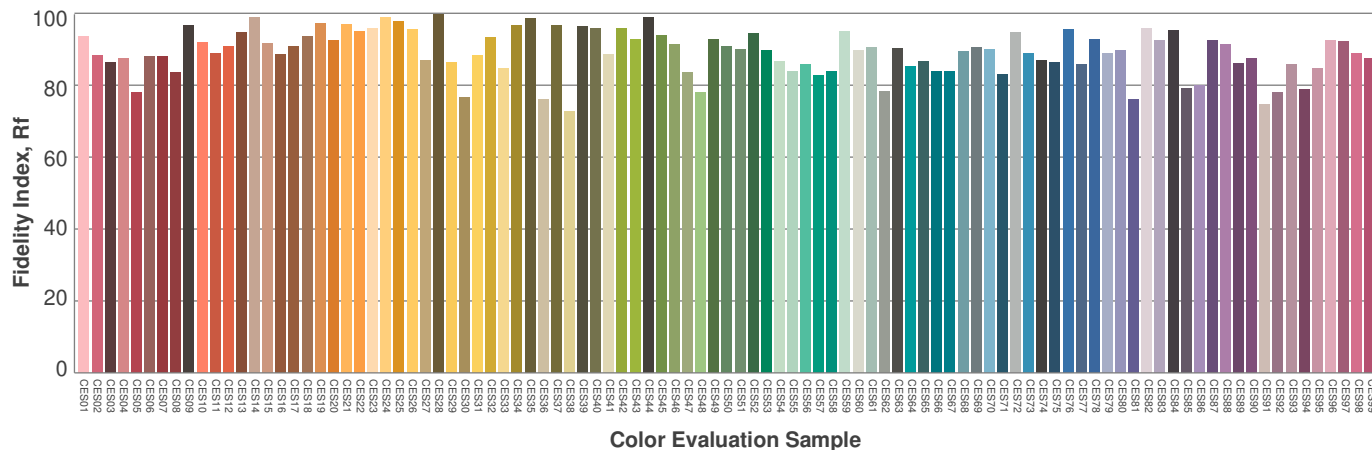
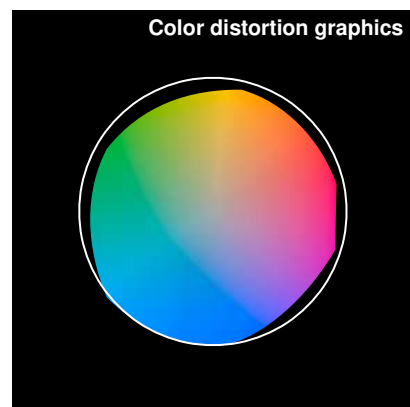
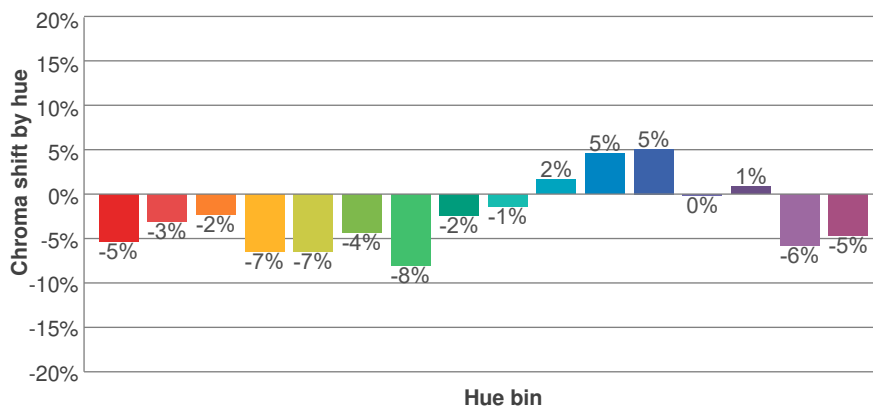
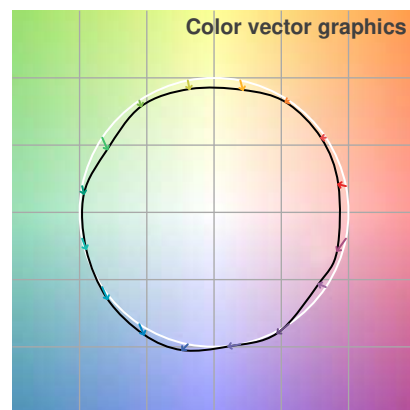
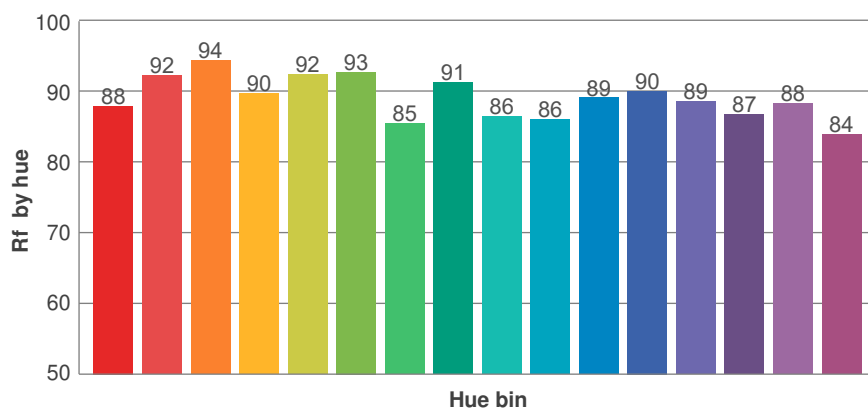
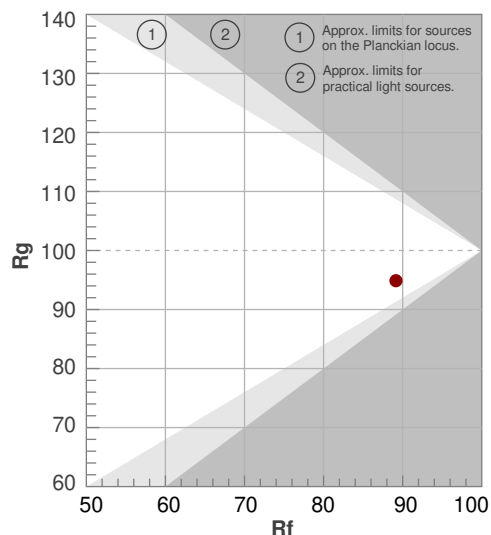
Rf 89,1

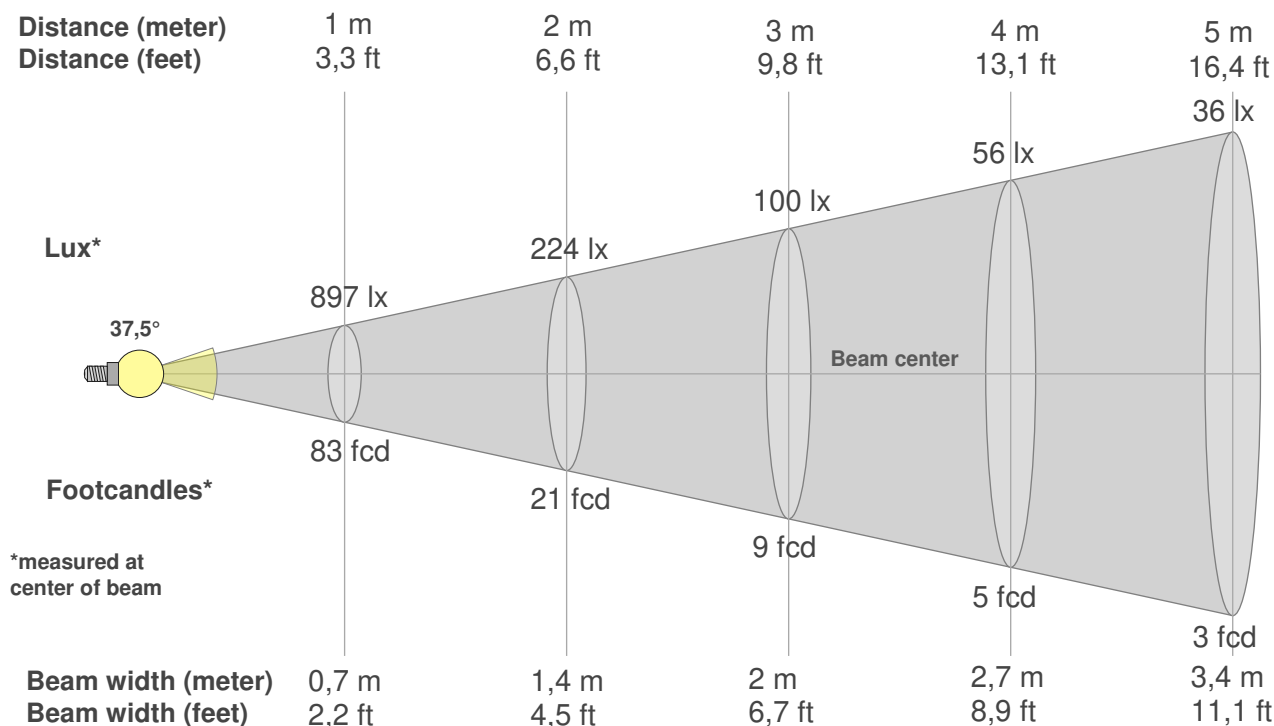
Fidelity index Rf

Rg 94,9

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	-7%	-3%
5	92	-7%	0%
6	93	-4%	1%
7	85	-8%	5%
8	91	-2%	5%
9	86	-1%	8%
10	86	2%	10%
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
897lx	224lx	100lx	56lx	36lx	25lx	18lx	14lx	11lx	9lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx
83,4fcd	20,8fcd	9,3fcd	5,2fcd	3,3fcd	2,3fcd	1,7fcd	1,3fcd	1fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd

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°
897	965	986	997	1028	1058	1028	910	730	551	423	347	295	255	222	196	172	154	142	134
100%	108%	110%	111%	115%	118%	115%	101%	81%	61%	47%	39%	33%	28%	25%	22%	19%	17%	16%	15%

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°
897	935	934	931	926	916	905	886	861	828	786	736	683	626	571	520	477	442	418	403
100%	104%	104%	104%	103%	102%	101%	99%	96%	92%	88%	82%	76%	70%	64%	58%	53%	49%	47%	45%

Intensities in 180° c-plane

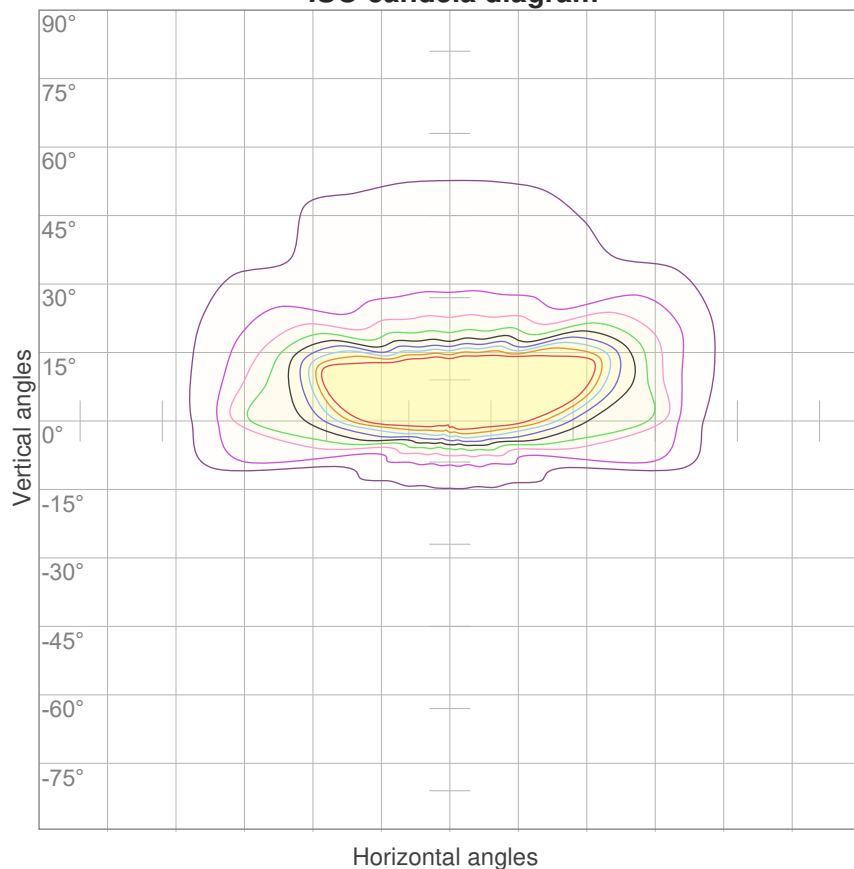
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
897	769	604	428	295	208	154	118	94	77	65	57	52	51	55	60	65	66	75	81
100%	86%	67%	48%	33%	23%	17%	13%	10%	9%	7%	6%	6%	6%	6%	7%	7%	7%	8%	9%

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°
897	936	936	936	934	929	920	908	886	858	821	774	722	666	609	554	506	466	437	419
100%	104%	104%	104%	104%	104%	103%	101%	99%	96%	92%	86%	80%	74%	68%	62%	56%	52%	49%	47%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37,5°	89,5°	168,1°	84,8%	67,0%

ISO candela diagram



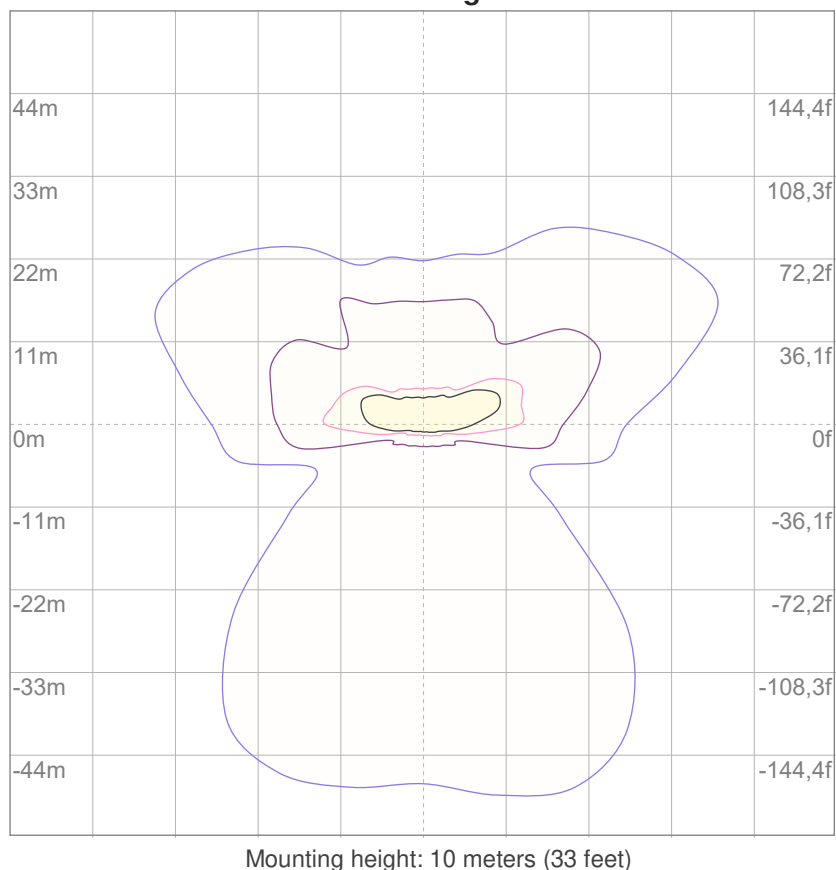
10%	90 cd
20%	179 cd
30%	269 cd
40%	359 cd
50%	449 cd
60%	538 cd
70%	628 cd
80%	718 cd
90%	807 cd

Conditions:

Number of c-planes: 16

Candela at center: 897 cd

ISO lux diagram



3%	0,269 lx
5%	0,449 lx
10%	0,897 lx
30%	2,69 lx
50%	4,49 lx

Conditions:

Number of c-planes: 16

Lux at center: 8,97 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				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variation of the observer position for the luminaire distance S										
n/a	n/a					n/a				
n/a	n/a					n/a				
n/a	n/a					n/a				
Standard table	n/a					n/a				
Correction summand	n/a					n/a				
Corrected glare indices referring to 968 lm total luminous flux										

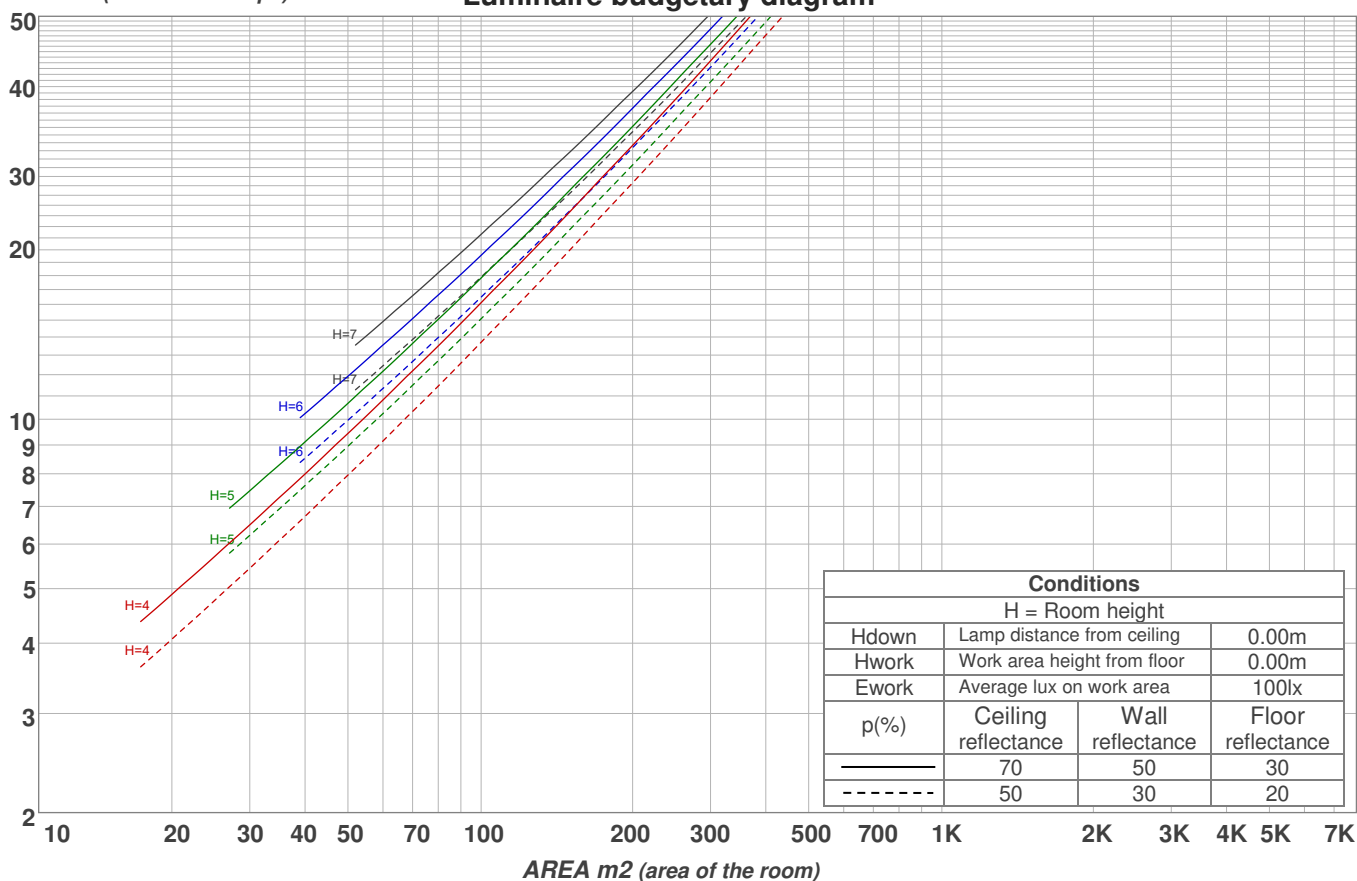
UGR data could not be calculated due to missing/wrong symmetry. Goto Edit->Photometric->Corrections and select Correct asymmetry.

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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	91	90	88	86
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	80	77	75
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	88	77	69	63	85	76	69	63	73	67	62	71	66	61	69	64	61	59
5	82	70	63	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	68	56	48	43	66	55	48	43	54	47	43	53	47	42	51	46	42	40
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37
10	60	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35

LAMPS (number of lamps)

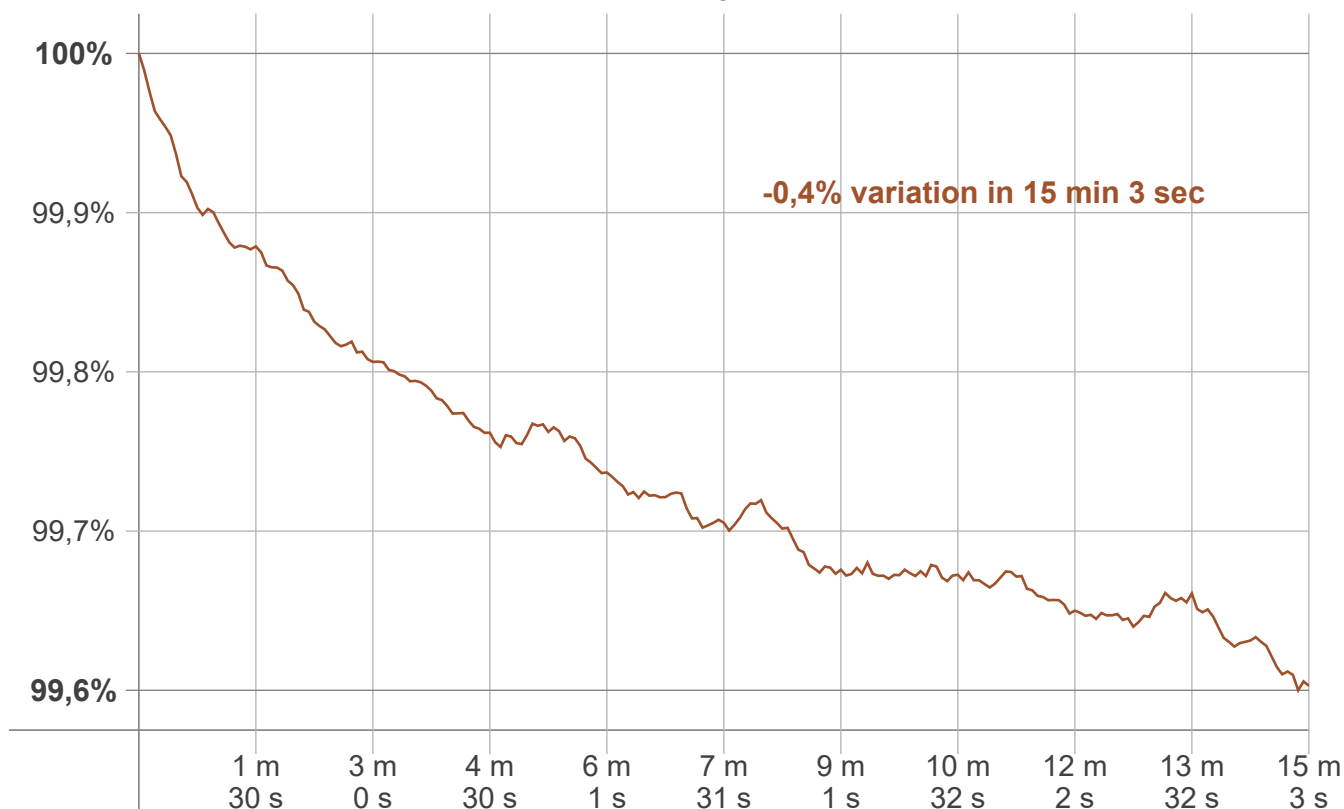
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
74,8 lm	173 lm	179 lm	154 lm	134 lm	107 lm	69,3 lm	46,0 lm	31,6 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,095 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm

Warmup curve



Warmup result

Warmup time:	Lamp stabilized in 15 min 3 sec
Warmup variation	-0,4%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2744 K	0 K	2744 K

Output change

Output start	Output change	Output end
971 lm	-3 lm	968 lm