



Light efficiency:

77 Lumen/Watt

Light quality:

CRI: 92,9

Color temperature:

2727 K

Output: 742 lm

Peak: 2007 cd

Power: 9,6 W

PF: 1,0



Product name:

Pegasus-5_0510_927_Inlay-Lens-15-Grad

Item number:

FL/L2C/09E/0510/927/IL1F

Date and time:

25.08.2025 14:46:29

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:

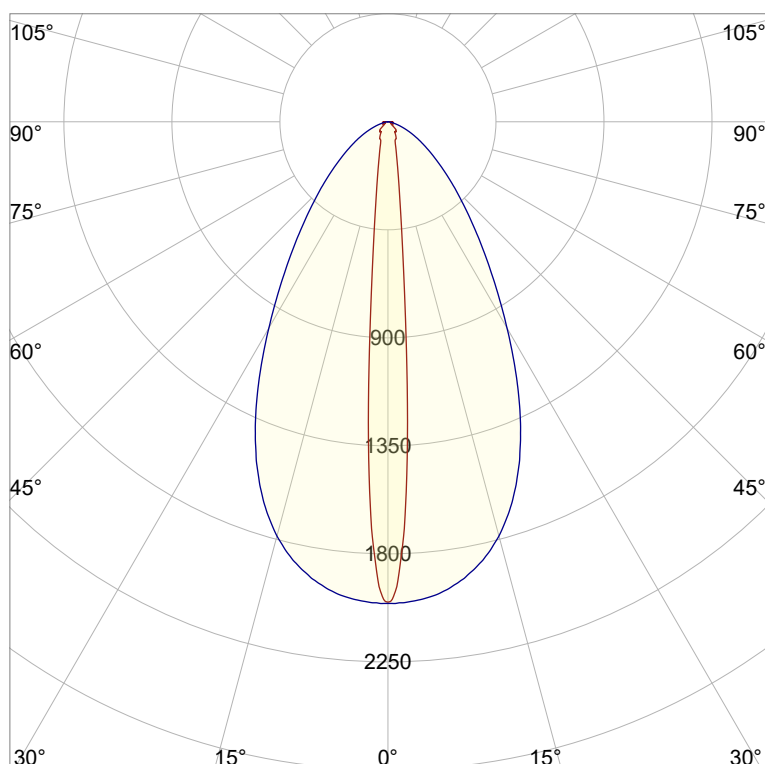
Peter Ulrich

Test Site:

Lichtlabor

Gaustrasse 13

55411 Bingen am Rhein

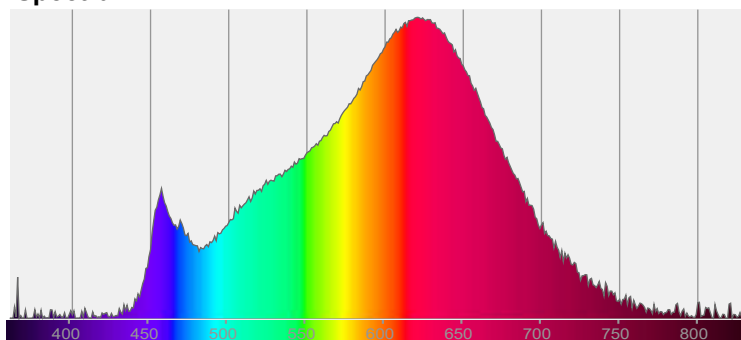


CIE 1931

x: 0,459

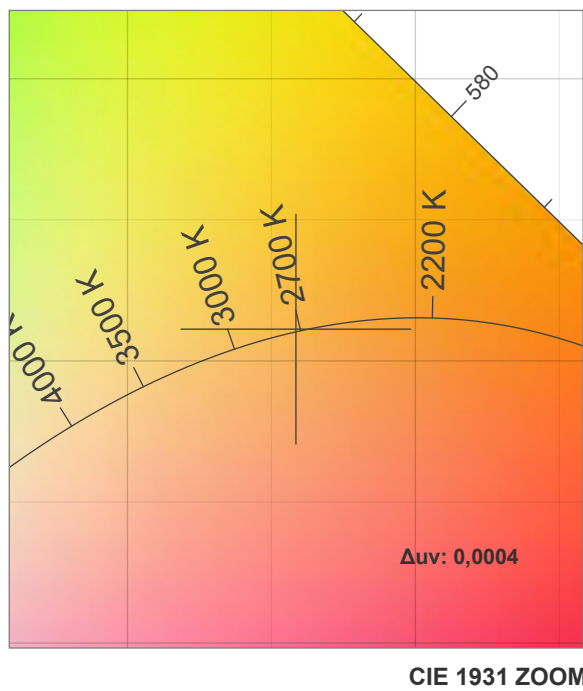
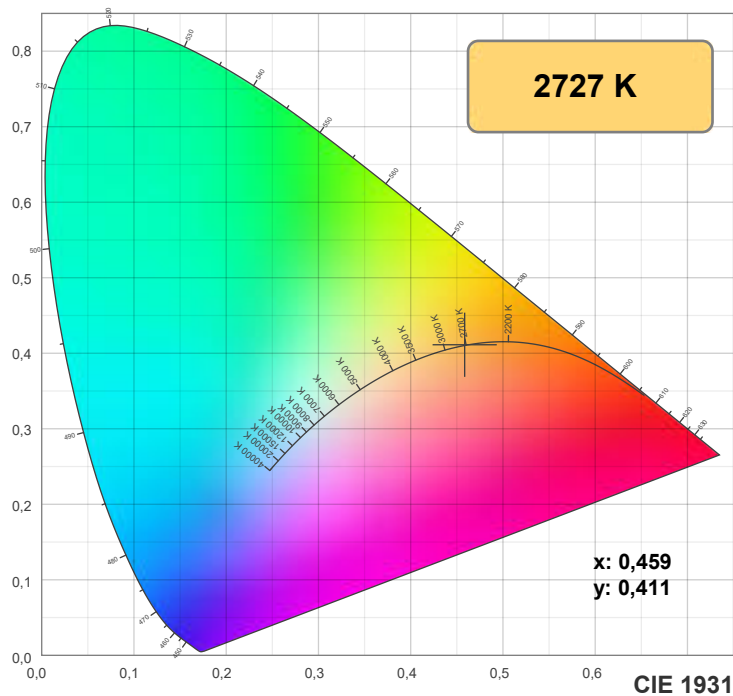
y: 0,411

Spectra



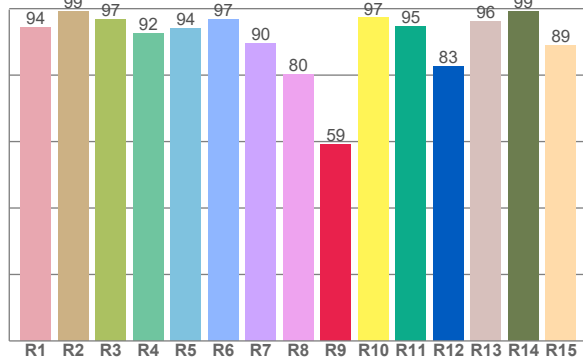
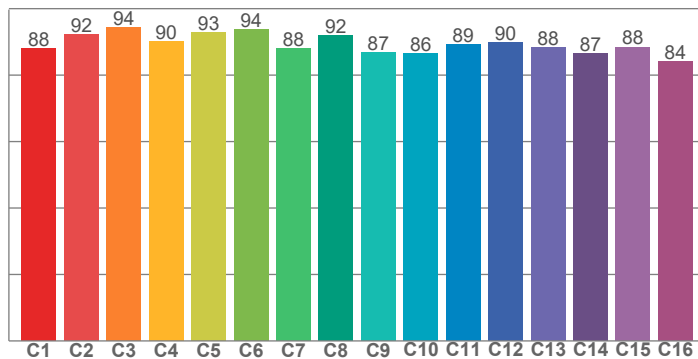
Power

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



TM30: 89,5

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
94,4	99,2	96,7	92,4	94,2	96,7	89,5	80,2	59,2	97,2	94,7	82,6	96,1	99,1	88,9

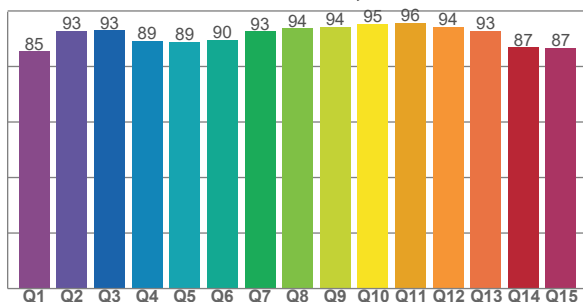
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,2	92,3	94,4	90,2	92,8	93,6	88,2	92,0	86,9	86,4	89,2	89,8	88,4	86,6	88,5	84,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85,4	92,7	92,9	89,3	88,7	89,6	92,6	93,8	94,3	95,2	95,7	94,3	92,8	86,8	86,7

CQS: 90,6



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
2727 K	92,9	59,2	89,5	95,5	90,6	0,459	0,411	0,261	0,352	0,0004



TM30 details



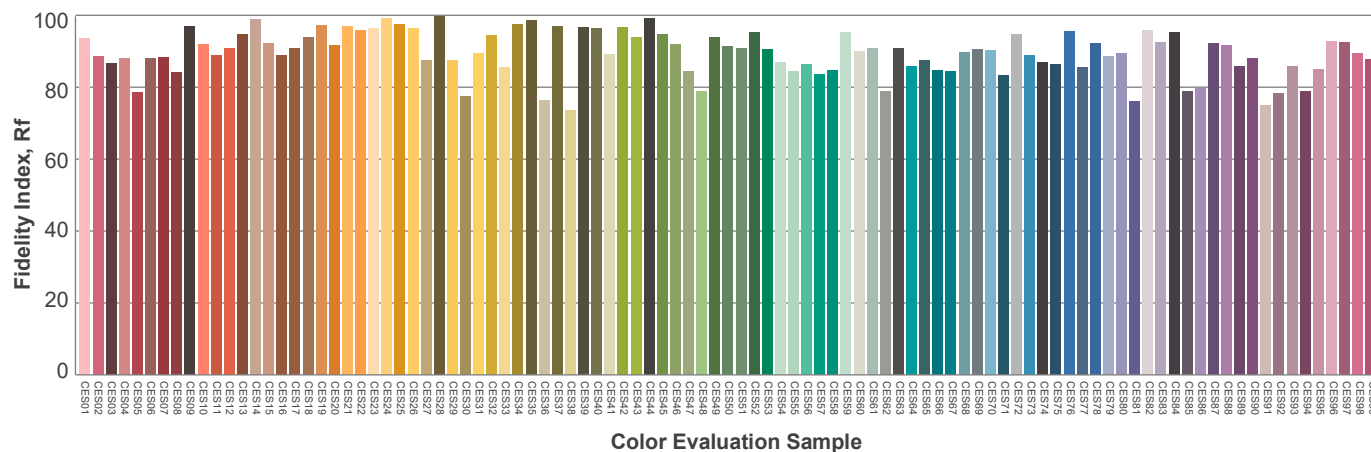
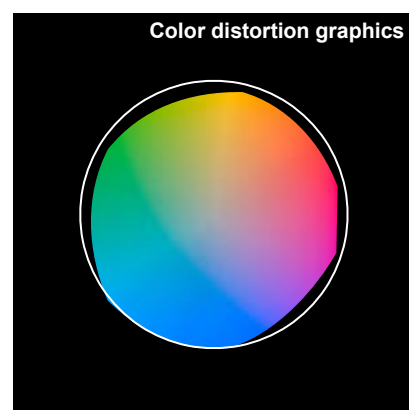
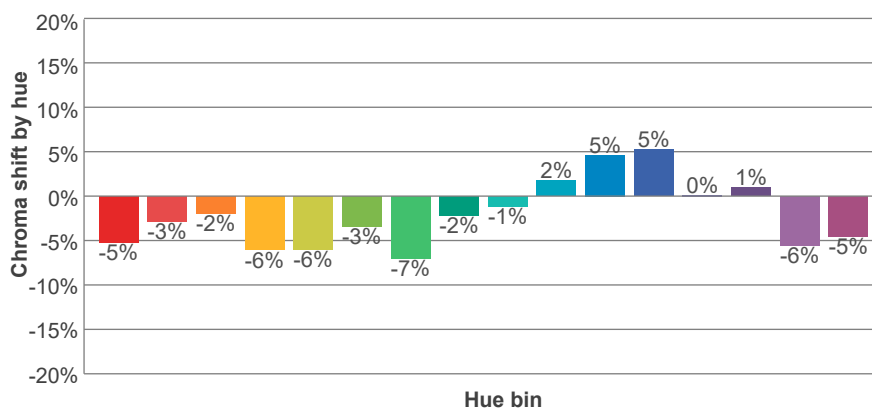
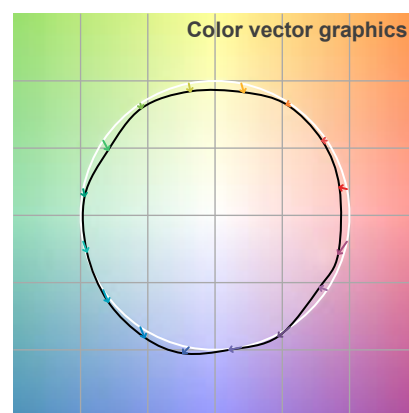
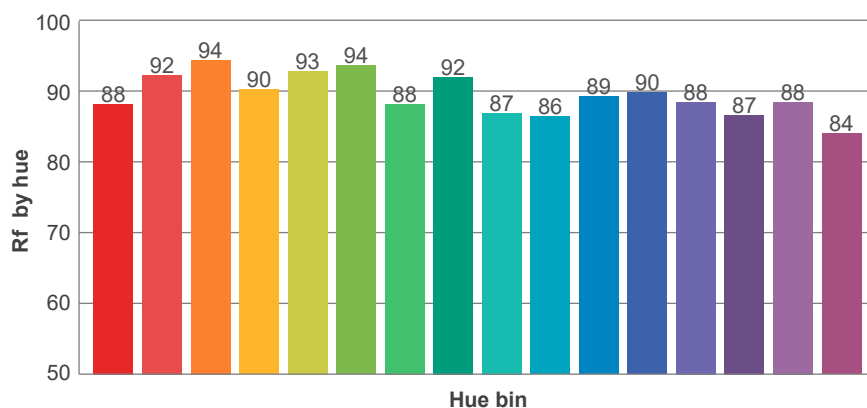
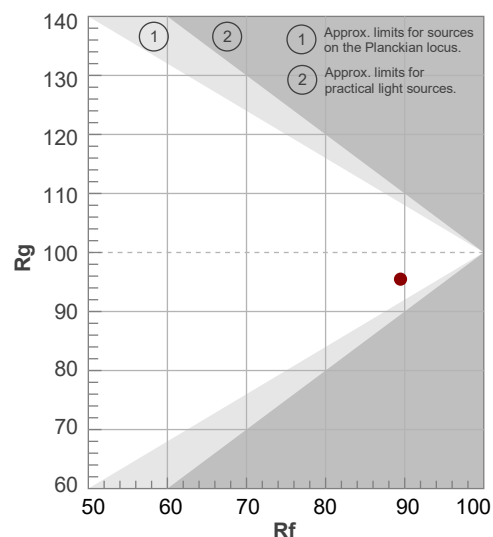
Rf 89,5

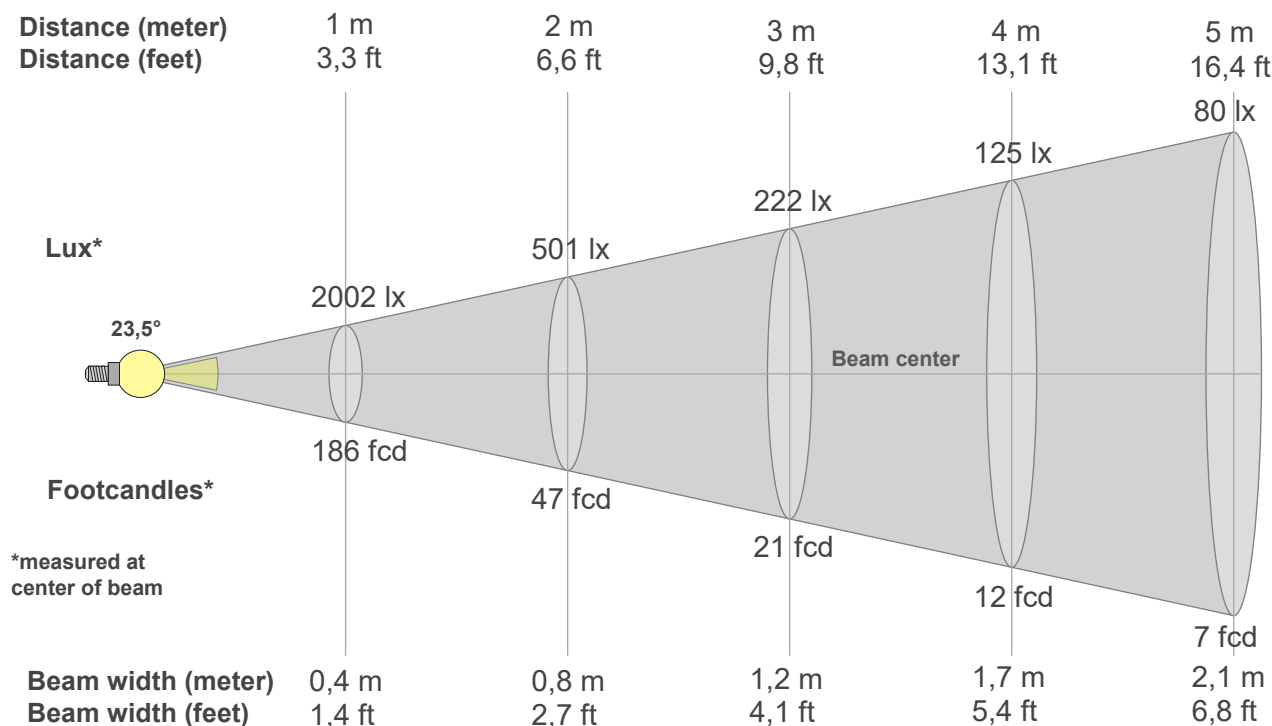
Fidelity index Rf

Rg 95,5

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	88	-5%	2%
2	92	-3%	2%
3	94	-2%	2%
4	90	-6%	-3%
5	93	-6%	0%
6	94	-3%	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	88	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
2002lx	501lx	222lx	125lx	80lx	56lx	41lx	31lx	25lx	20lx	17lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	6lx	5lx
186fcd	46,5fcd	20,7fcd	11,6fcd	7,4fcd	5,2fcd	3,8fcd	2,9fcd	2,3fcd	1,9fcd	1,5fcd	1,3fcd	1,1fcd	0,9fcd	0,8fcd	0,7fcd	0,6fcd	0,6fcd	0,5fcd	0,5fcd

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°
2002	1761	1162	627	380	262	194	151	123	102	88	81	79	78	72	64	57	51	51	52
100%	88%	58%	31%	19%	13%	10%	8%	6%	5%	4%	4%	4%	4%	4%	3%	3%	3%	3%	3%

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°
2002	2004	1995	1979	1952	1917	1873	1817	1750	1670	1575	1470	1356	1235	1112	992	882	781	692	613
100%	100%	100%	99%	97%	96%	94%	91%	87%	83%	79%	73%	68%	62%	56%	50%	44%	39%	35%	31%

Intensities in 180° c-plane

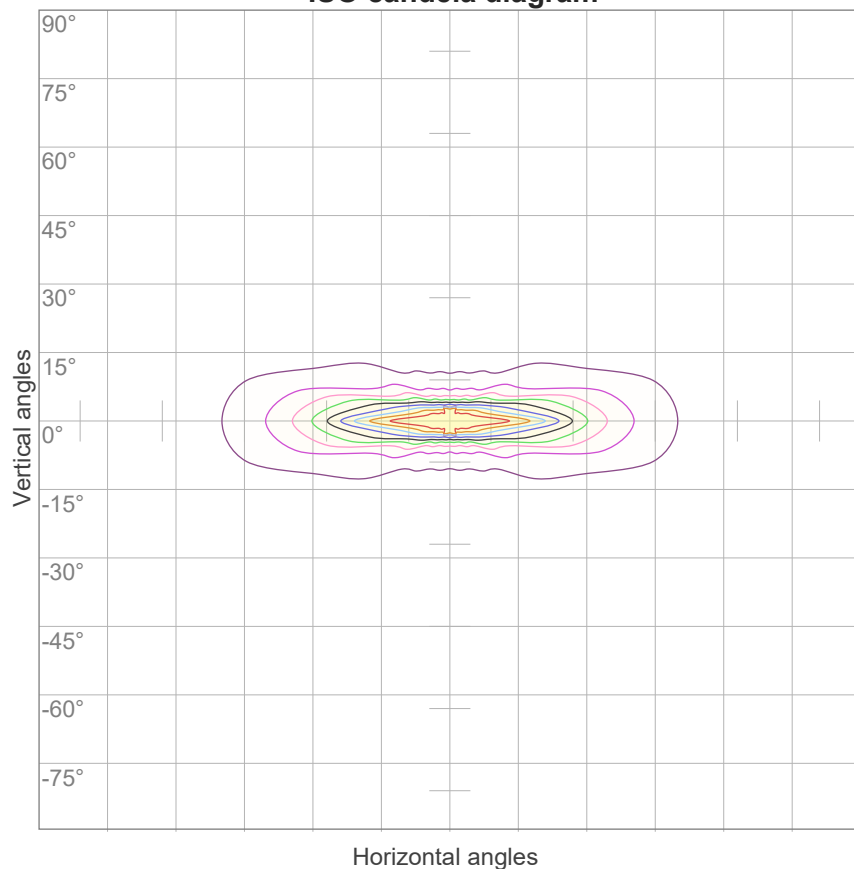
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2002	1761	1162	627	380	262	194	151	123	102	88	81	79	78	72	64	57	51	51	52
100%	88%	58%	31%	19%	13%	10%	8%	6%	5%	4%	4%	4%	4%	4%	3%	3%	3%	3%	3%

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°
2002	2004	1995	1979	1952	1917	1873	1817	1750	1670	1575	1470	1356	1235	1112	992	882	781	692	613
100%	100%	100%	99%	97%	96%	94%	91%	87%	83%	79%	73%	68%	62%	56%	50%	44%	39%	35%	31%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23,5°	50,3°	105°	88,1%	73,9%

ISO candela diagram



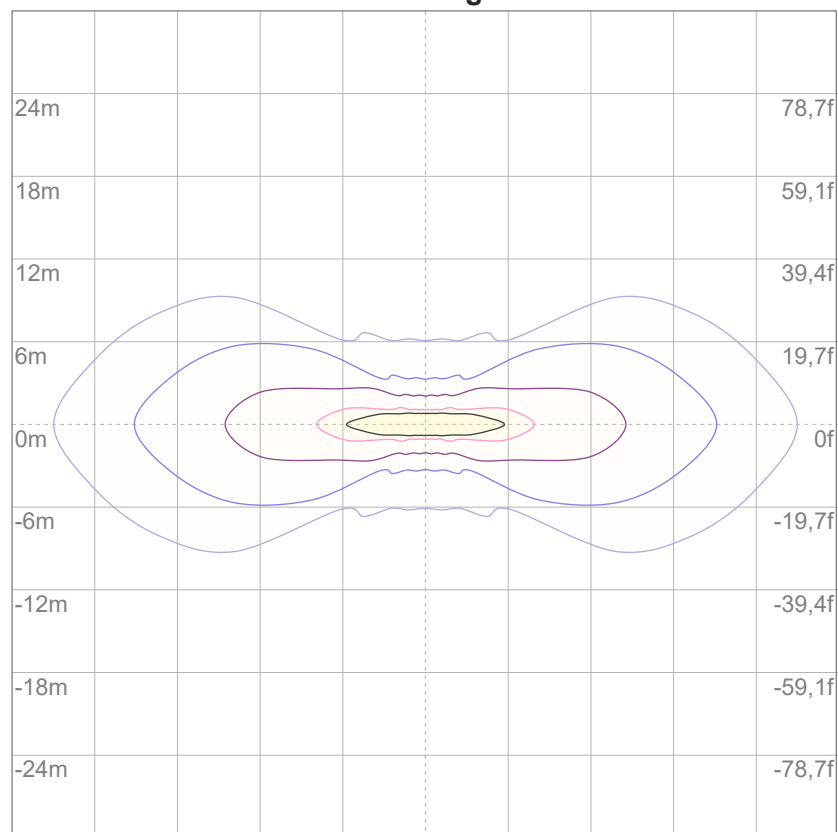
10%	200 cd
20%	400 cd
30%	601 cd
40%	801 cd
50%	1001 cd
60%	1201 cd
70%	1402 cd
80%	1602 cd
90%	1802 cd

Conditions:

Number of c-planes: 16

Candela at center: 2002 cd

ISO lux diagram



3%	0,601 lx
5%	1,00 lx
10%	2,00 lx
30%	6,01 lx
50%	10,0 lx

Conditions:

Number of c-planes: 16

Lux at center: 20,0 lx

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

Glare Evaluation According to UGR

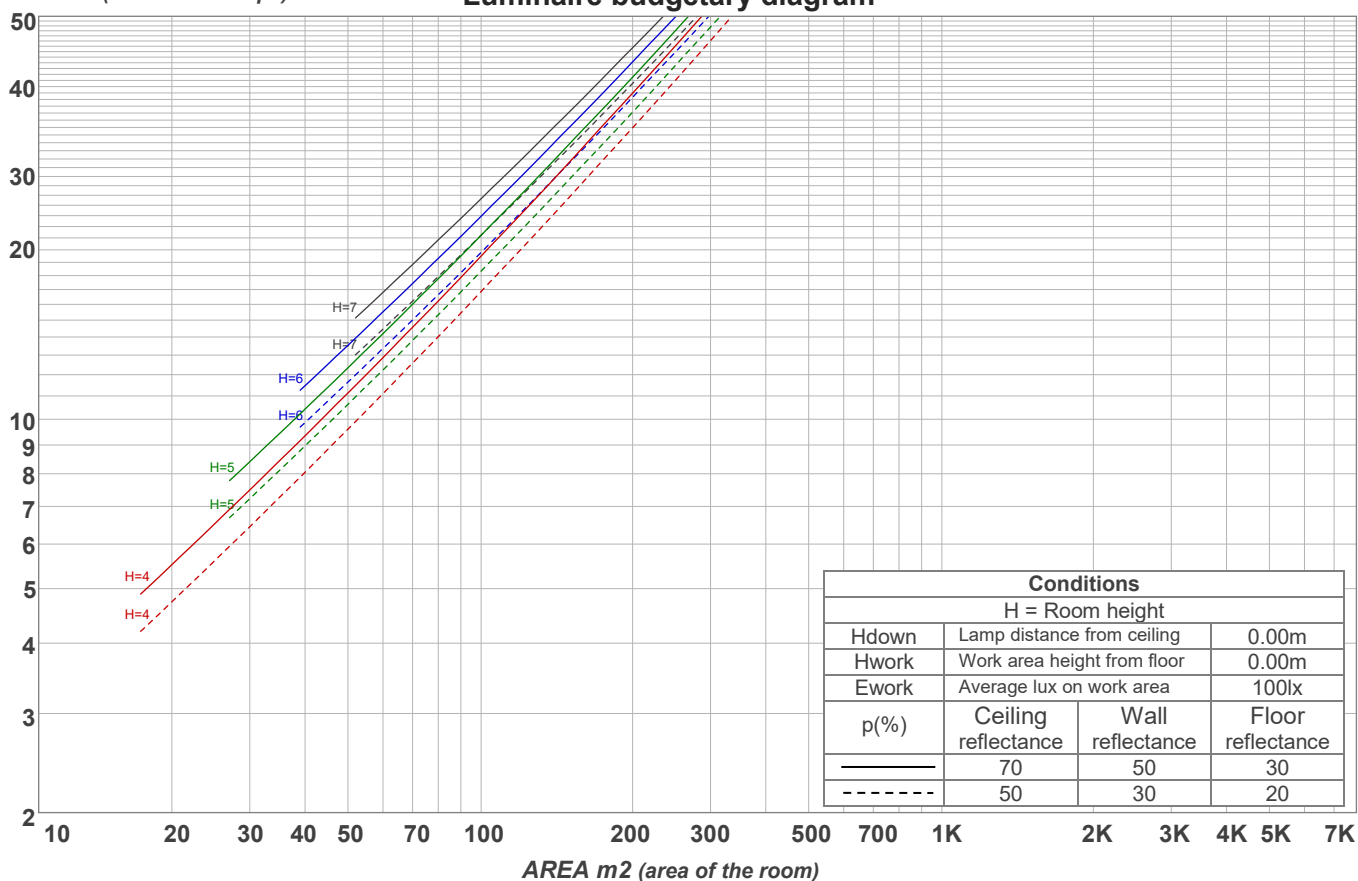
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	11,0	11,9	11,1	12,1	12,3	23,2	24,1	23,4	24,3	24,5
	3H	12,0	13,0	12,4	13,3	13,4	23,8	24,8	24,2	25,0	25,2
	4H	13,2	14,1	13,6	14,4	14,6	24,0	25,0	24,4	25,2	25,5
	6H	14,7	15,5	15,0	15,7	16,1	24,2	25,0	24,5	25,3	25,6
	8H	15,4	16,1	15,7	16,4	16,8	24,2	24,9	24,5	25,3	25,7
	12H	16,0	16,8	16,4	17,1	17,6	24,1	24,9	24,5	25,2	25,7
4H	2H	12,8	13,7	13,2	14,0	14,2	22,9	23,8	23,3	24,1	24,3
	3H	14,0	14,8	14,4	15,1	15,5	23,8	24,6	24,2	24,9	25,3
	4H	15,0	15,7	15,4	16,1	16,6	24,0	24,7	24,4	25,1	25,6
	6H	16,4	17,1	16,9	17,4	17,8	24,1	24,8	24,6	25,2	25,5
	8H	17,1	17,8	17,6	18,1	18,5	24,1	24,8	24,7	25,1	25,5
	12H	17,8	18,4	18,3	18,8	19,2	24,1	24,7	24,6	25,1	25,5
8H	4H	15,7	16,3	16,2	16,7	17,1	23,9	24,6	24,4	24,9	25,3
	6H	17,3	17,8	17,8	18,2	18,8	24,1	24,6	24,6	25,1	25,6
	8H	18,2	18,6	18,7	19,2	19,8	24,2	24,6	24,7	25,1	25,8
	12H	19,1	19,5	19,7	20,0	20,6	24,2	24,6	24,8	25,1	25,7
12H	4H	15,8	16,3	16,3	16,7	17,2	23,9	24,4	24,4	24,8	25,3
	6H	17,5	17,9	18,1	18,5	19,1	24,2	24,5	24,7	25,1	25,7
	8H	18,5	18,9	19,1	19,4	20,0	24,2	24,6	24,8	25,1	25,7
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,2					1,2 / -1,2				
S = 1.5H		0,3 / -0,3					2,6 / -2,4				
S = 2.0H		0,5 / -0,4					3,9 / -3,8				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 742 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	111	107	104	101	108	105	102	99	100	98	96	96	94	92	92	91	89	87
2	104	97	92	87	101	95	90	86	92	88	84	88	85	82	85	82	80	78
3	97	89	82	77	95	87	81	77	84	79	75	81	77	74	79	75	72	70
4	91	82	75	70	89	80	74	69	78	72	68	75	71	67	73	69	66	64
5	86	76	68	63	84	74	68	63	72	67	62	70	65	61	69	64	61	59
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	64	60	56	54
7	76	66	59	54	75	65	58	54	63	57	53	62	57	53	61	56	52	51
8	73	62	55	50	71	61	55	50	60	54	50	58	53	49	57	53	49	47
9	69	58	52	47	68	58	51	47	56	51	47	55	50	46	54	50	46	45
10	66	55	49	44	65	55	48	44	54	48	44	53	47	44	52	47	44	42

LAMPS (number of lamps)

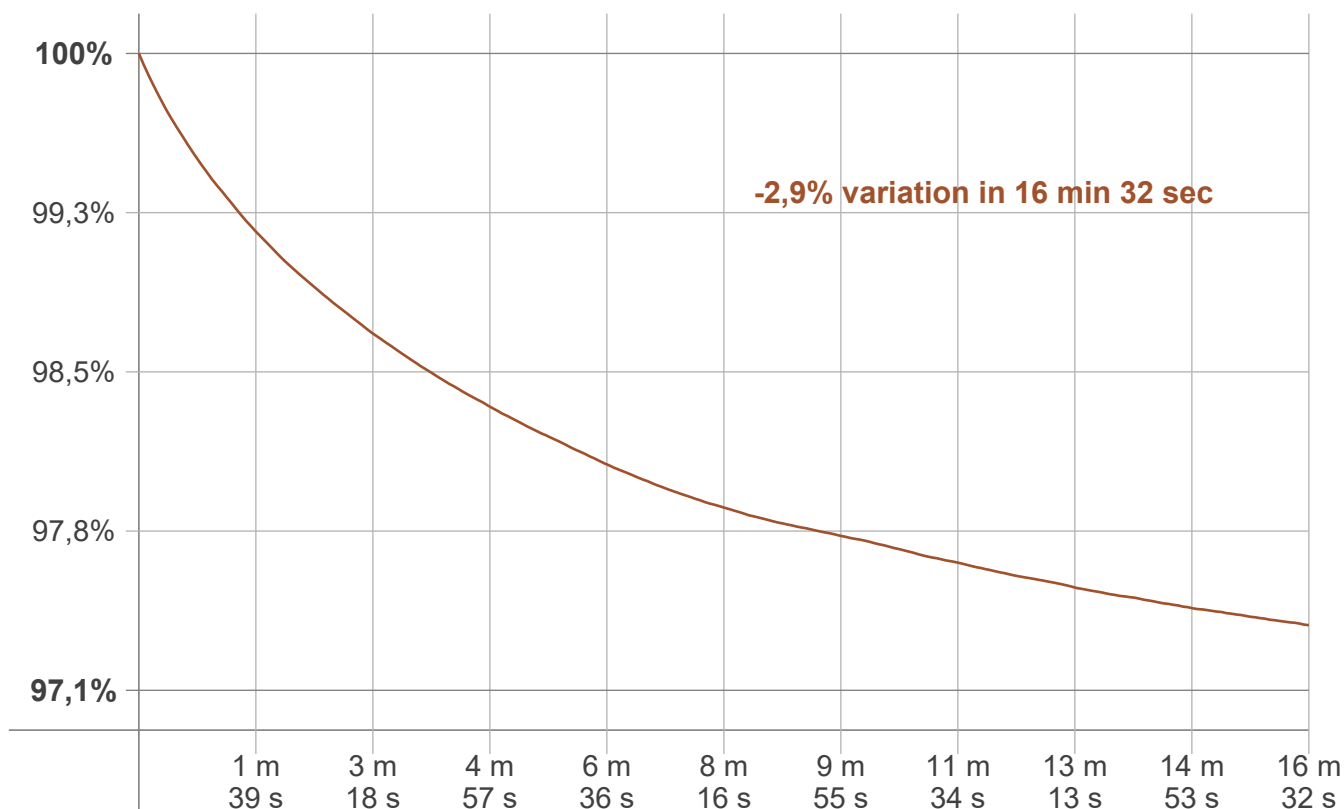
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
109 lm	143 lm	135 lm	113 lm	89,9 lm	63,0 lm	39,4 lm	23,1 lm	13,9 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1,41 lm	3,61 lm	0,478 lm	0,432 lm	0,327 lm	0,236 lm	0,174 lm	0,107 lm	5,17 lm

Warmup curve



Warmup result

Warmup time:	Lamp stabilized in 16 min 32 sec
Warmup variation	-2,9%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2728 K	-1 K	2727 K

Output change

Output start	Output change	Output end
763 lm	-21 lm	742 lm