

Light efficiency:

87 Lumen/Watt

Light quality:

CRI: 82,1

Color temperature:

2238 K

Output: 1047 lm

Peak: 621 cd

Power: 12,0 W

PF: 1,0



Product name:

Pegasus-3-Gold-0508-822-L6T

Item number:

FLNP-L-16A-0508-822-L6T

Date and time:

16.03.2021 14:42:53

Description:

Rank: M1A4T

Toleranzen:

Lumen +/-4%

Candela +/-2,5%

Colour Temp +/-35 Grad K

CRI +/-0,7

Angular Resolution 1 Grad step

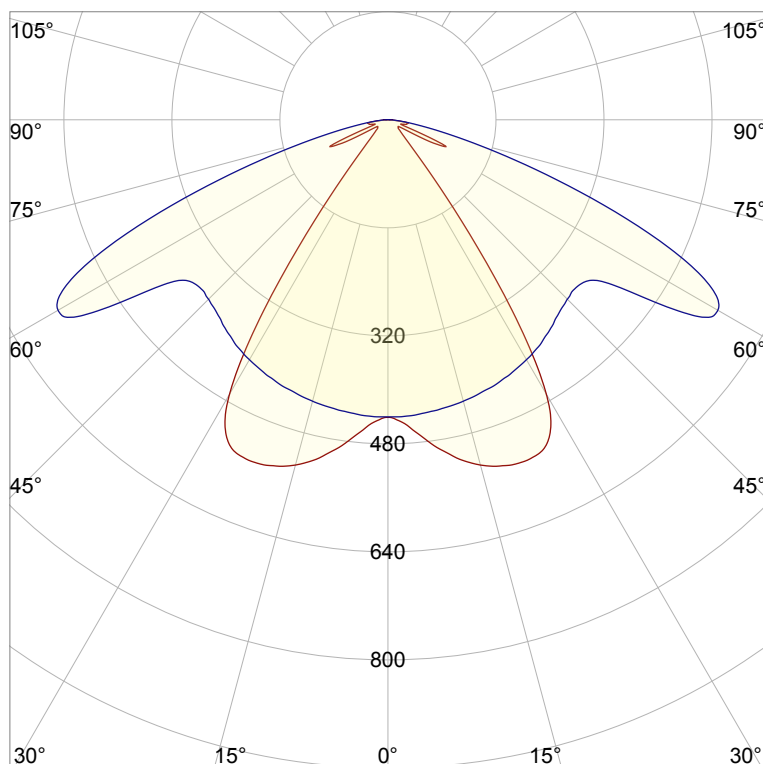
Last Calibration 20-05-2020

Pruefer: Peter Ulrich

Pruefort: Lichtlabor

Gaustrasse13-15

55411 Bingen am Rhein

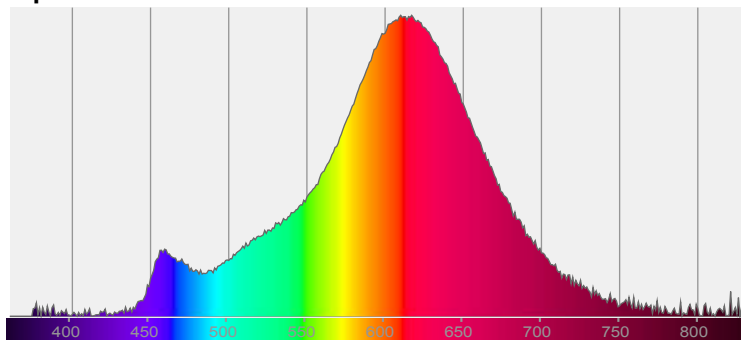


CIE 1931

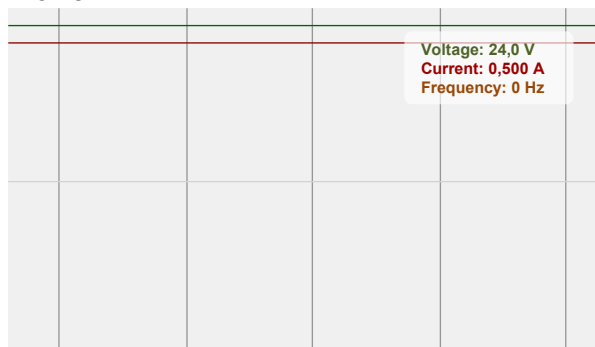
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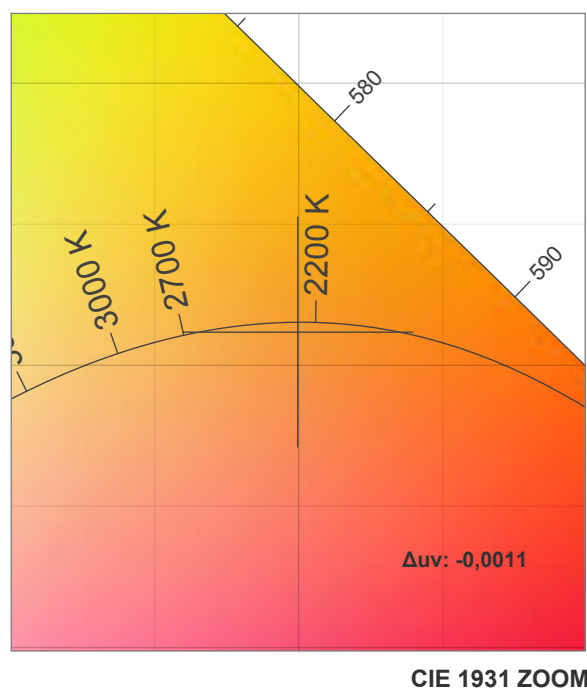
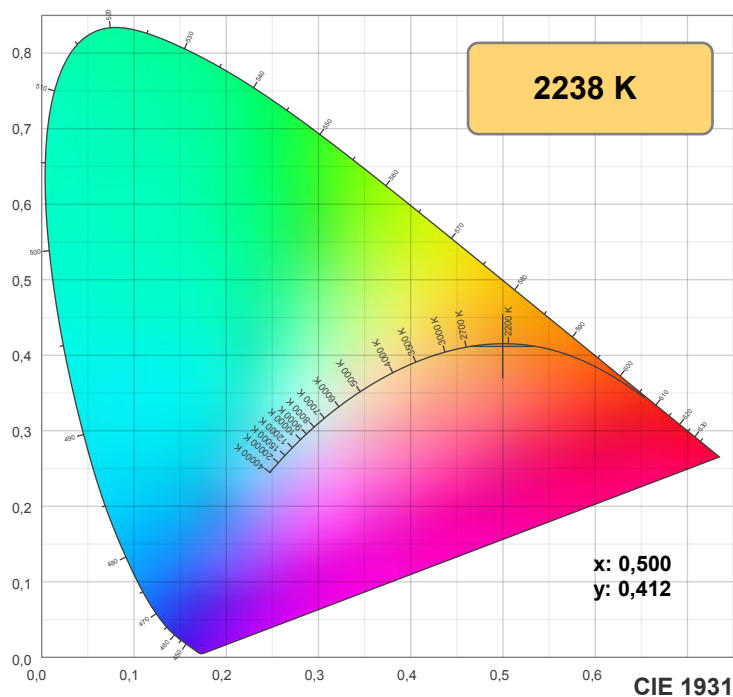
y: 0,412

Spectra

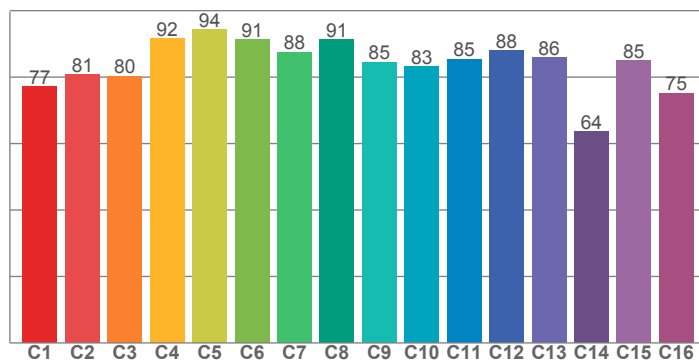


Power

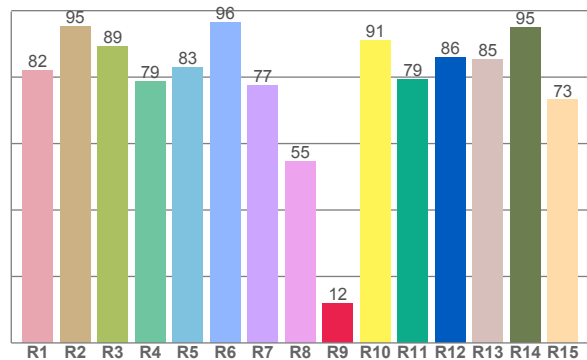




TM30: 84,5



CRI: 82,1 (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
82,0	95,4	89,1	78,6	83,0	96,4	77,4	54,7	11,9	90,9	79,2	85,9	85,4	94,8	73,1

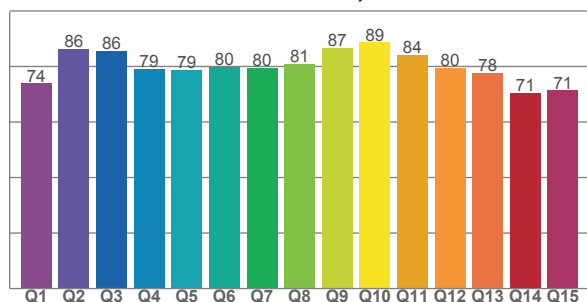
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
77,2	80,8	80,3	91,7	94,4	91,3	87,5	91,3	84,5	83,1	85,4	88,0	86,0	63,6	84,9	75,2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
73,9	86,4	85,5	79,1	78,9	79,7	79,5	81,0	86,7	88,6	84,1	79,5	77,7	70,6	71,4

CQS: 79,1



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
2238 K	82,1	11,9	84,5	94,1	79,1	0,500	0,412	0,288	0,356	-0,0011

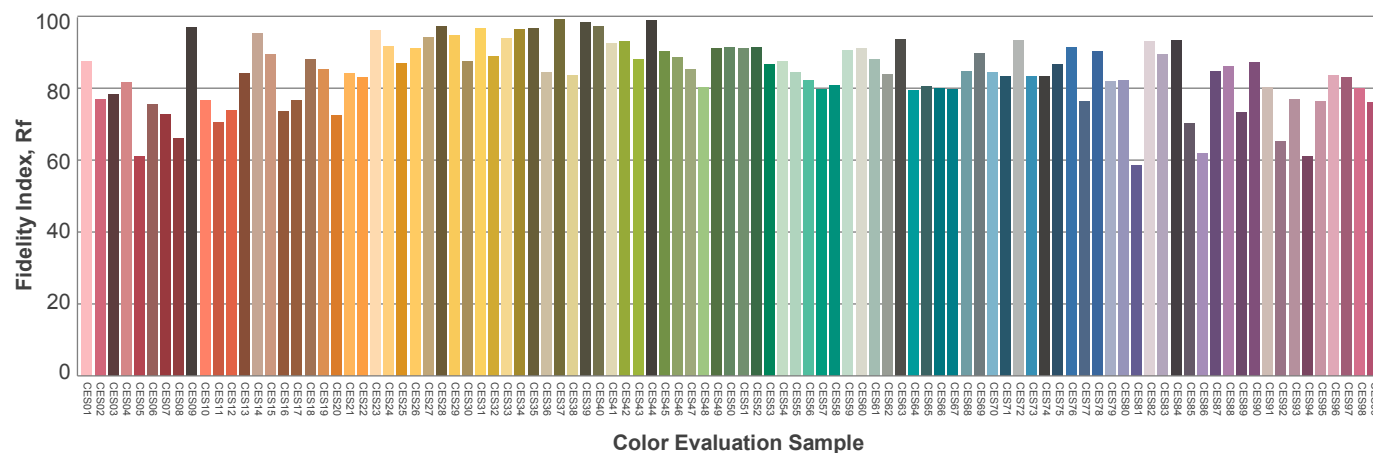
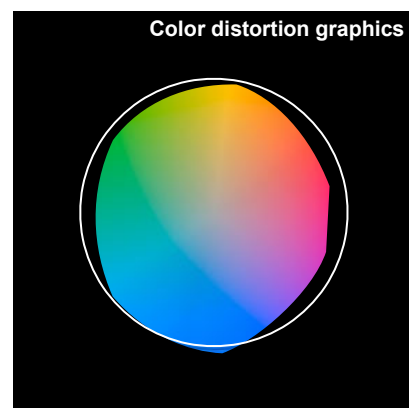
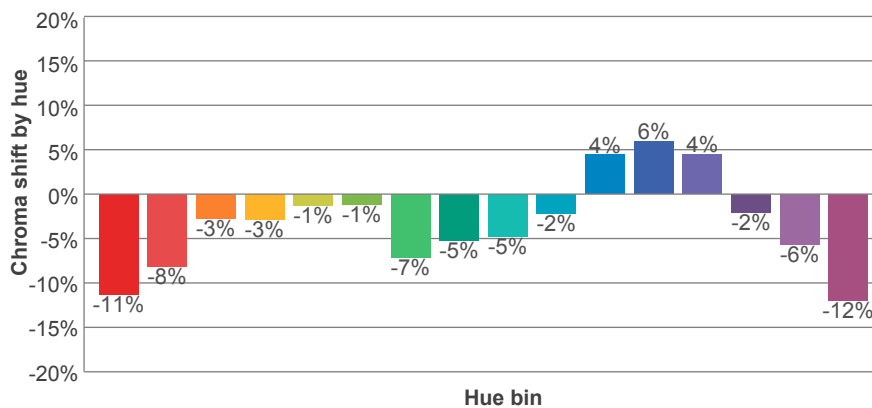
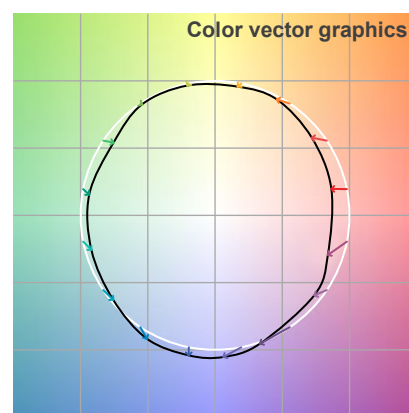
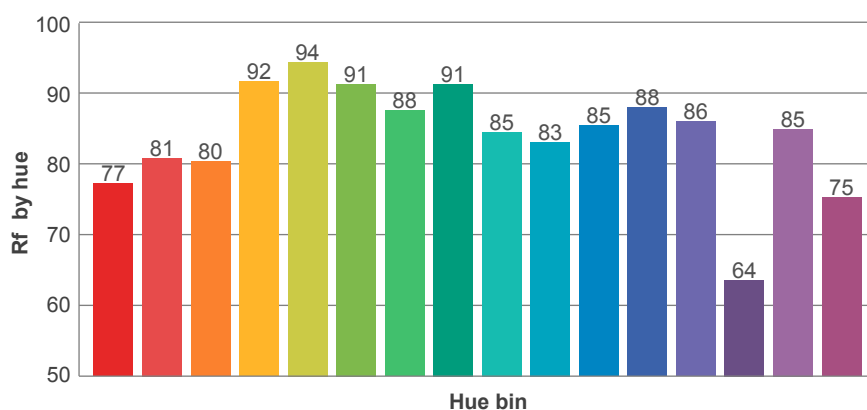
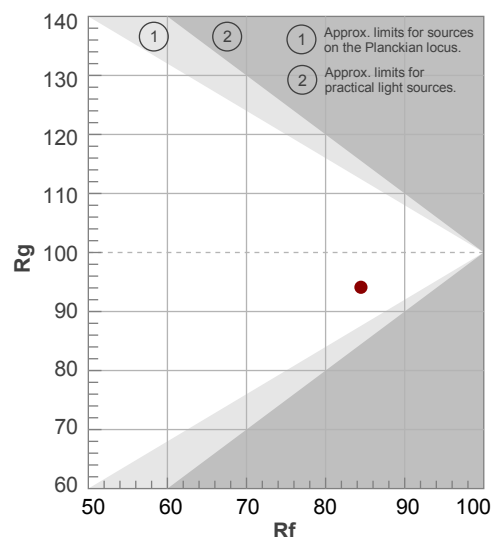
Rf 84,5

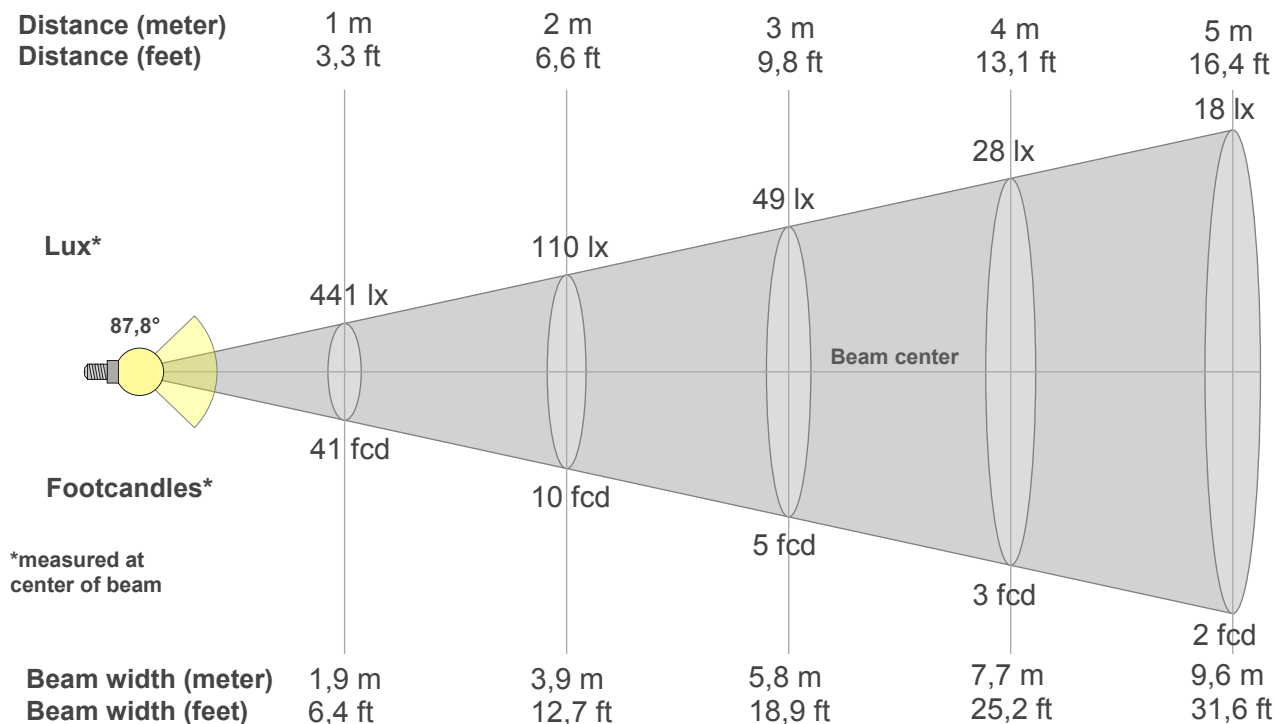
Fidelity index Rf

Rg 94,1

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	77	-11%	2%
2	81	-8%	8%
3	80	-3%	10%
4	92	-3%	2%
5	94	-1%	1%
6	91	-1%	-1%
7	88	-7%	-3%
8	91	-5%	3%
9	85	-5%	7%
10	83	-2%	10%
11	85	4%	9%
12	88	6%	1%
13	86	4%	-14%
14	64	-2%	-25%
15	85	-6%	-8%
16	75	-12%	-13%





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
441lx	110lx	49lx	28lx	18lx	12lx	9lx	7lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx
41fcd	10,2fcd	4,6fcd	2,6fcd	1,6fcd	1,1fcd	0,8fcd	0,6fcd	0,5fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,2fcd	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°
441	464	501	529	543	540	469	234	66	30	20	19	29	93	22	26	30	10	3	3
100%	105%	113%	120%	123%	123%	106%	53%	15%	7%	5%	4%	7%	21%	5%	6%	7%	2%	1%	1%

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°
441	439	436	431	426	419	410	400	386	376	376	454	564	475	281	126	46	13	1	1
100%	100%	99%	98%	96%	95%	93%	91%	87%	85%	85%	103%	128%	108%	64%	29%	10%	3%	0%	0%

Intensities in 180° c-plane

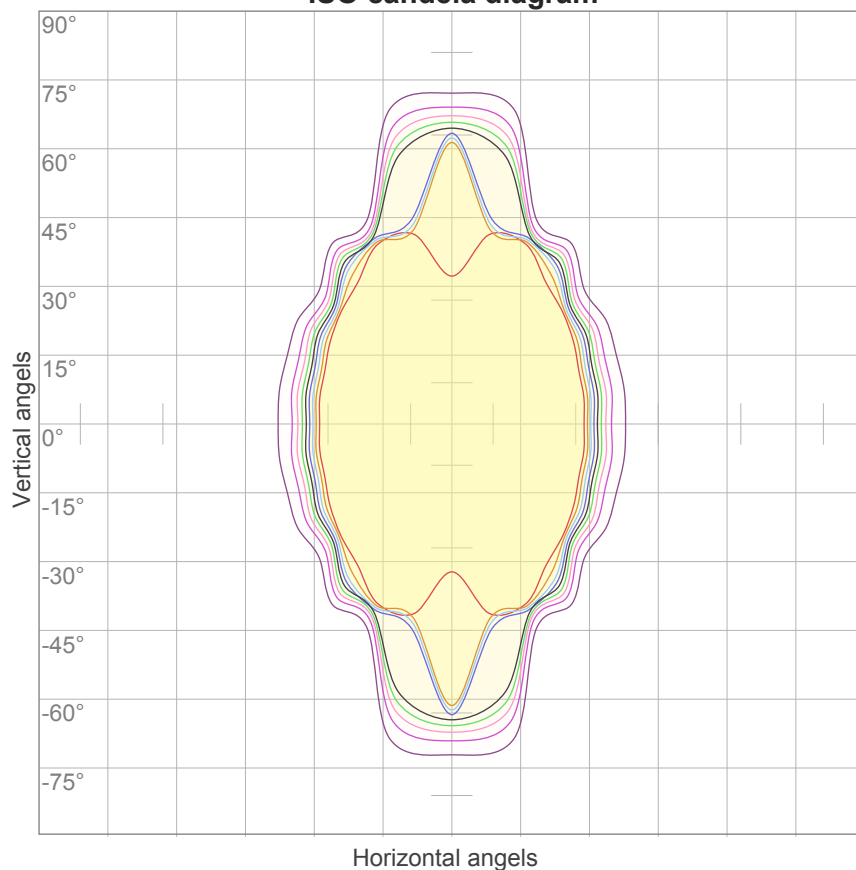
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
441	464	501	529	543	540	469	234	66	30	20	19	29	93	22	26	30	10	3	3
100%	105%	113%	120%	123%	123%	106%	53%	15%	7%	5%	4%	7%	21%	5%	6%	7%	2%	1%	1%

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°
441	439	436	431	426	419	410	400	386	376	376	454	564	475	281	126	46	13	1	1
100%	100%	99%	98%	96%	95%	93%	91%	87%	85%	85%	103%	128%	108%	64%	29%	10%	3%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
87,8°	119,9°	157,1°	86,3%	73,4%

ISO candela diagram



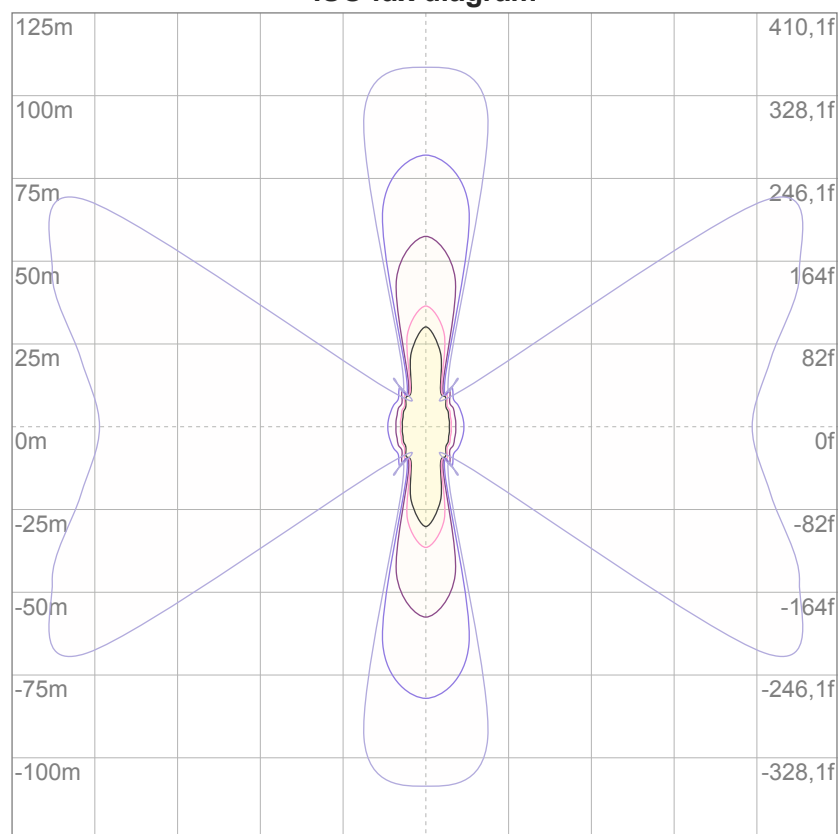
10%	44 cd
20%	88 cd
30%	132 cd
40%	176 cd
50%	221 cd
60%	265 cd
70%	309 cd
80%	353 cd
90%	397 cd

Conditions:

Number of c-planes: 16

Candela at center: 441 cd

ISO lux diagram



3%	0,132 lx
5%	0,221 lx
10%	0,441 lx
30%	1,32 lx
50%	2,21 lx

Conditions:

Number of c-planes: 16

Lux at center: 4,41 lx

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

Glare Evaluation According to UGR

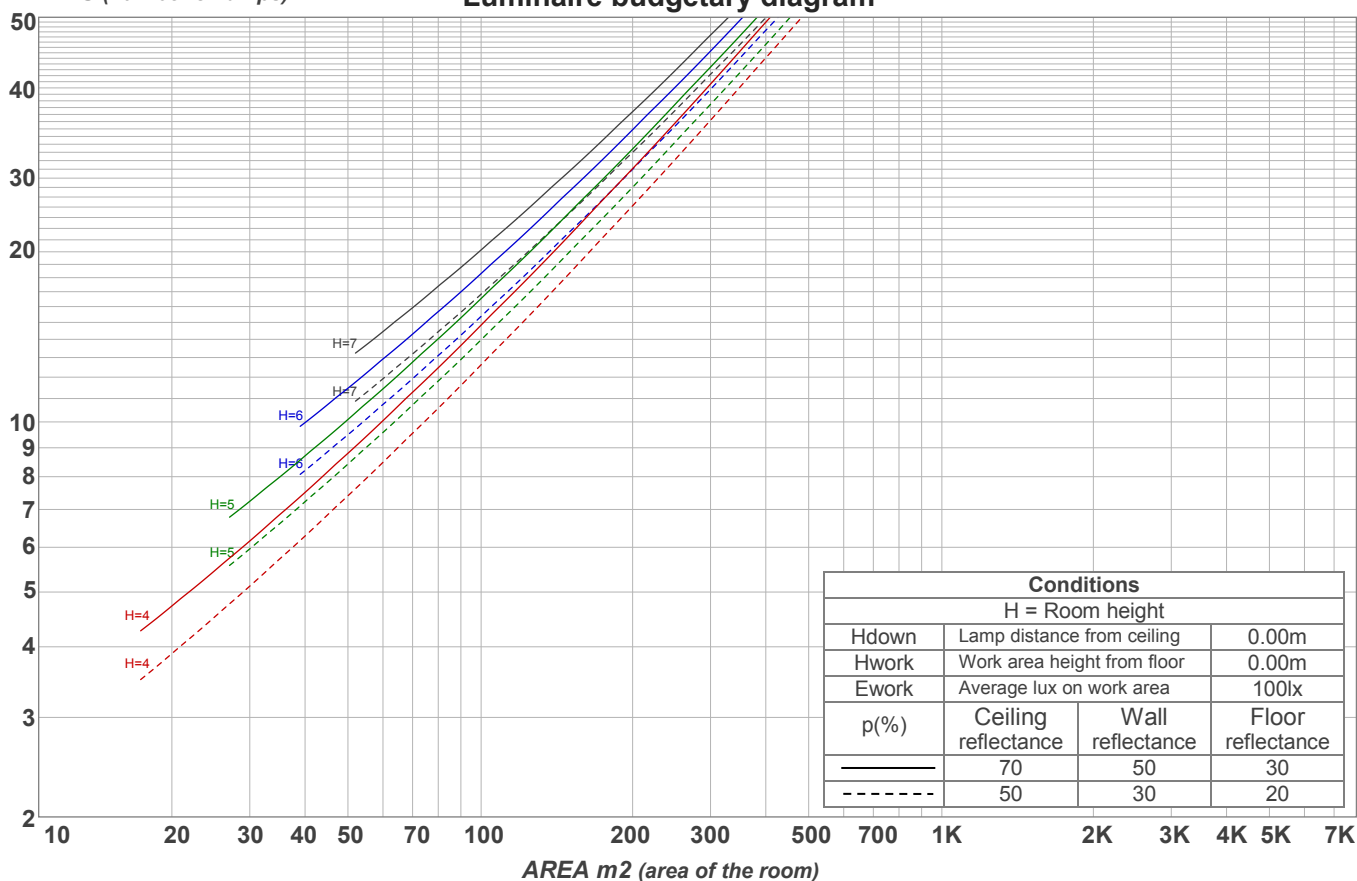
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	15,6	16,6	15,8	16,9	17,1	26,8	27,8	26,9	28,0	28,3
	3H	17,5	18,6	17,9	18,9	19,0	28,9	30,0	29,3	30,2	30,4
	4H	17,7	18,8	18,1	19,0	19,3	29,3	30,4	29,7	30,6	30,9
	6H	18,4	19,2	18,7	19,5	19,9	29,5	30,4	29,9	30,7	31,1
	8H	18,6	19,5	19,0	19,8	20,2	29,5	30,4	29,9	30,7	31,1
	12H	18,7	19,6	19,1	19,9	20,3	29,5	30,3	29,9	30,7	31,1
4H	2H	15,6	16,6	16,0	16,9	17,1	26,4	27,4	26,8	27,7	28,0
	3H	18,0	18,8	18,3	19,1	19,6	28,7	29,6	29,1	29,9	30,4
	4H	18,2	19,0	18,7	19,4	19,9	29,1	29,9	29,5	30,3	30,8
	6H	19,0	19,8	19,5	20,1	20,5	29,3	30,0	29,8	30,4	30,7
	8H	19,4	20,1	19,9	20,5	20,8	29,3	30,0	29,8	30,3	30,7
	12H	19,5	20,1	20,0	20,5	21,0	29,3	29,8	29,8	30,3	30,7
8H	4H	18,4	19,1	18,9	19,4	19,8	29,0	29,7	29,5	30,0	30,4
	6H	19,3	19,9	19,8	20,3	20,9	29,2	29,7	29,7	30,1	30,7
	8H	19,9	20,4	20,4	20,9	21,5	29,2	29,7	29,8	30,2	30,8
	12H	20,2	20,5	20,8	21,0	21,6	29,2	29,6	29,8	30,1	30,7
12H	4H	18,4	18,9	18,9	19,3	19,8	28,9	29,5	29,4	29,9	30,4
	6H	19,4	19,9	19,9	20,4	21,0	29,2	29,6	29,7	30,1	30,8
	8H	20,0	20,4	20,6	20,9	21,5	29,2	29,6	29,8	30,1	30,7
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,9 / -0,6					1,3 / -2,1				
S = 1.5H		3,2 / -1,7					2,7 / -5,2				
S = 2.0H		3,7 / -1,9					4,3 / -7,9				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1047 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	101	101	101	99
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	92	90	89	87
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	83	80	78	76
3	95	86	79	73	92	84	77	72	81	75	71	78	74	70	76	72	68	66
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	63	58	54	53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	49	58	53	49	47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39
9	62	50	43	38	61	50	43	38	49	42	37	47	41	37	46	41	37	35
10	59	47	39	35	58	46	39	34	45	39	34	44	38	34	43	38	34	32

LAMPS (number of lamps)

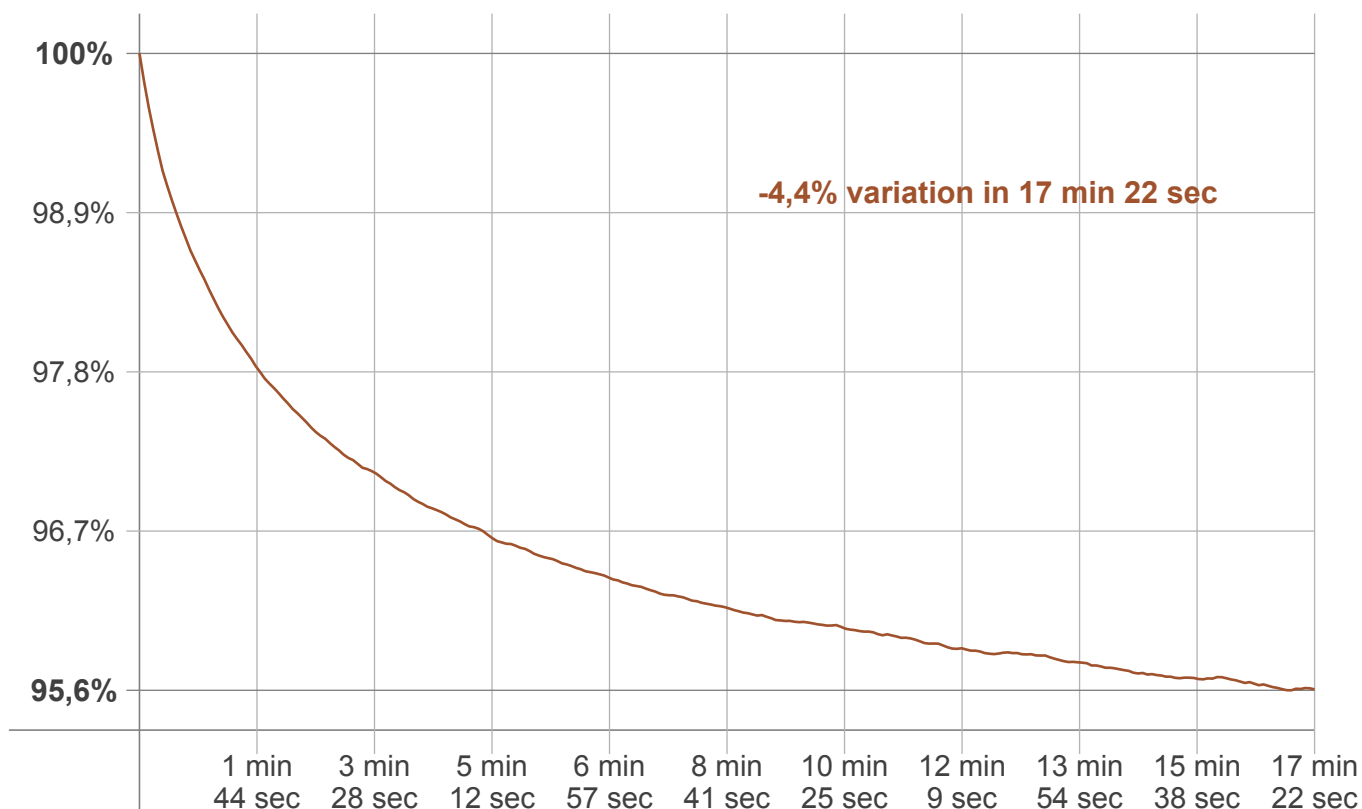
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
43,8 lm	140 lm	237 lm	256 lm	155 lm	72,8 lm	83,9 lm	37,6 lm	14,0 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
2,82 lm	1,31 lm	1,12 lm	1,02 lm	0,689 lm	0,422 lm	0,311 lm	0,190 lm	0,064 lm

Warmup curve



Warmup result

Warmup time:	17 min 22 sec
Warmup variation	-4,4%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2238 K	+0 K	2238 K

Output change

Output start	Output change	Output end
1091 lm	-43 lm	1047 lm