

Light efficiency:

82 Lumen/Watt

Light quality:

CRI: 82,1

Color temperature:

2233 K

Output: 986 lm

Peak: 347 cd

Power: 12,0 W

PF: 1,0



Product name:

Pegasus-3-Gold-0508-822-CFT

Item number:

FLNP-L-16A-0508-822-CFT

Date and time:

16.03.2021 10:31:31

Description:

Rank: M1A4T

Toleranzen:

Lumen +/-4%

Candela +/-2,5%

Colour Temp +/-35 Grad K

CRI +/-0,7

Angular Resolution 1 Grad step

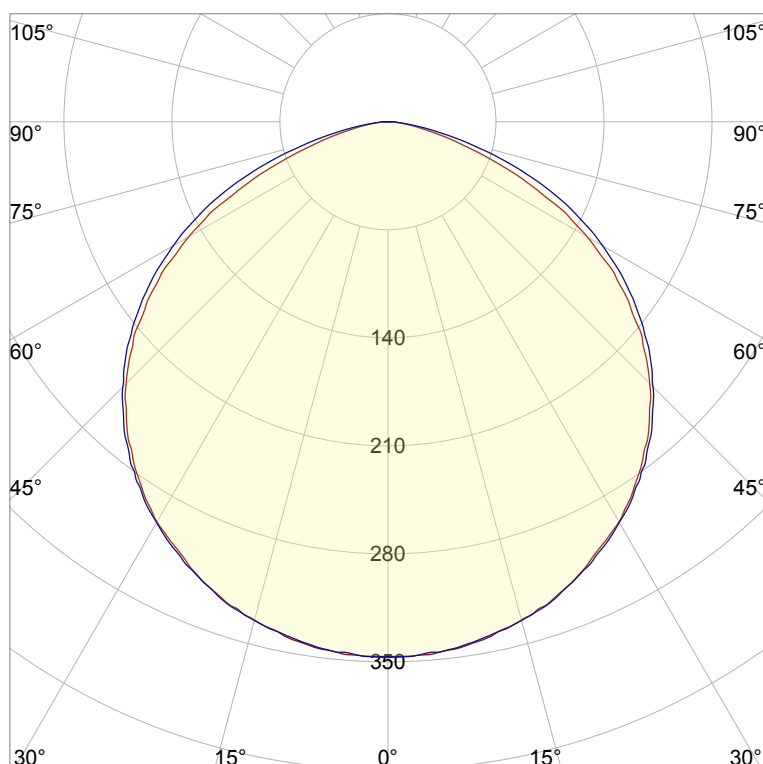
Last Calibration 20-05-2020

Pruefer: Peter Ulrich

Pruefort: Lichtlabor

Gaustrasse13-15

55411 Bingen am Rhein

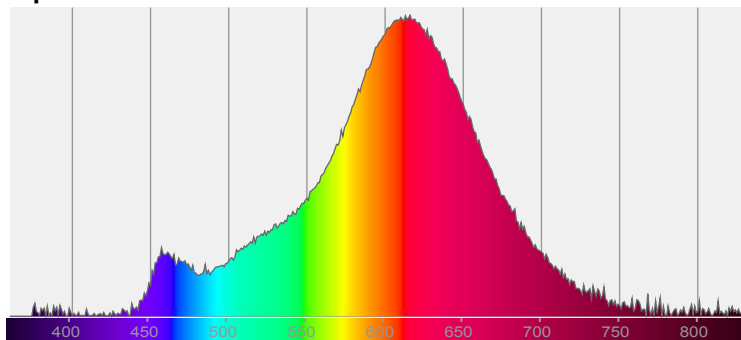


CIE 1931

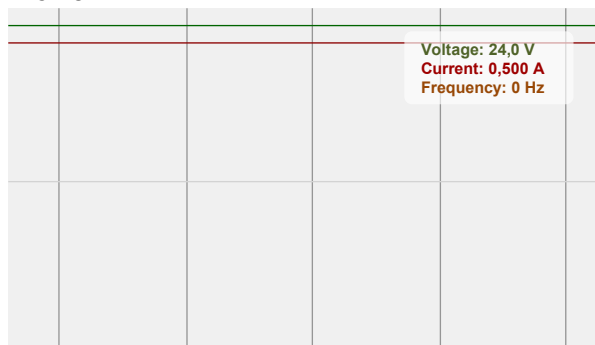
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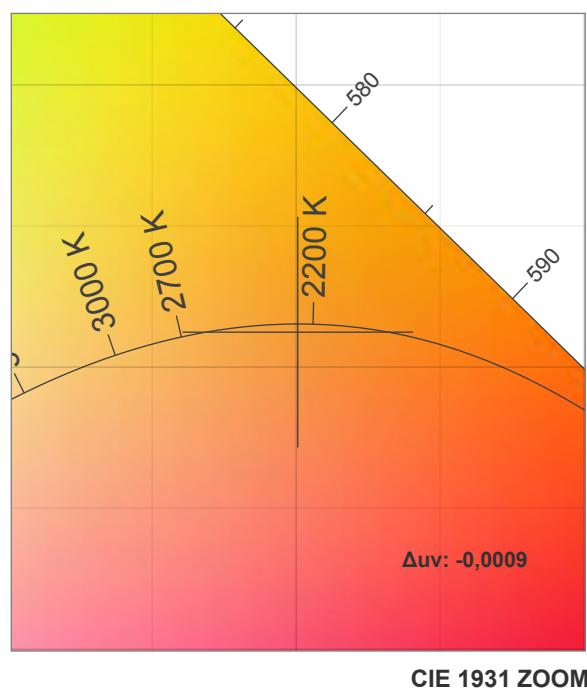
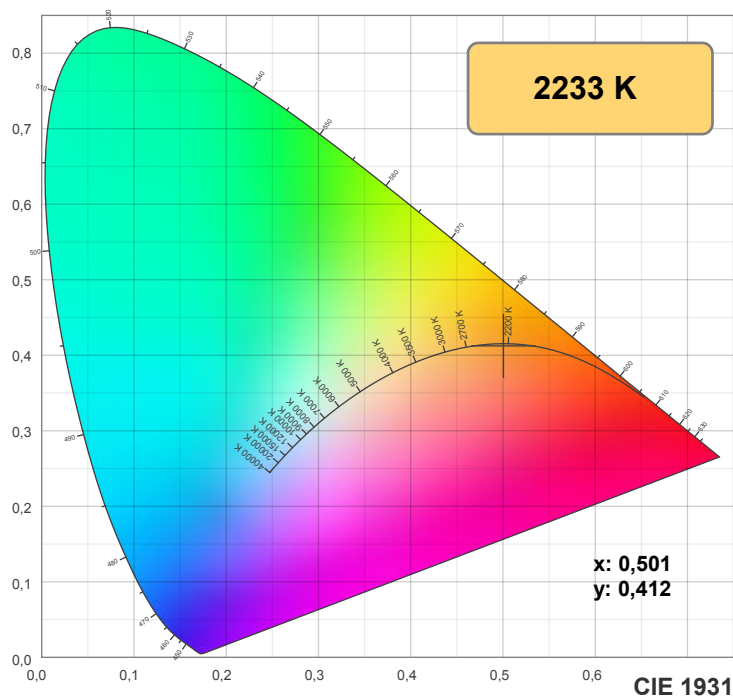
y: 0,412

Spectra

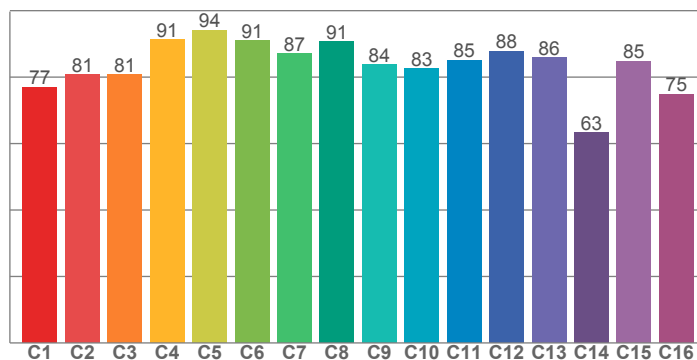


Power

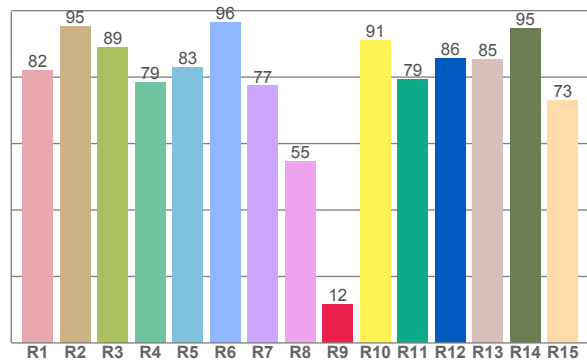




TM30: 84,2



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	78,5	83,0	96,5	77,4	54,6	11,7	90,9	79,2	85,5	85,4	94,8	73,0

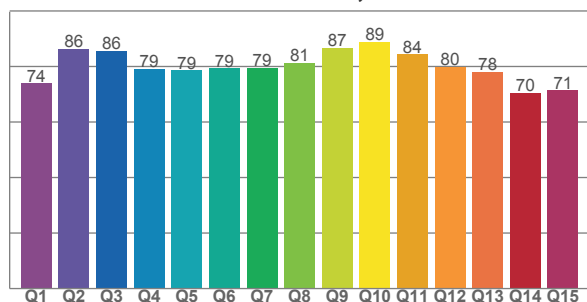
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
77,0	80,8	80,8	91,2	94,2	91,0	87,2	90,7	83,8	82,6	85,1	87,8	85,8	63,4	84,8	74,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
73,8	86,2	85,6	79,0	78,5	79,3	79,4	81,4	86,7	88,8	84,3	79,8	77,9	70,4	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
2233 K	82,1	11,7	84,2	93,7	79,1	0,501	0,412	0,288	0,356	-0,0009

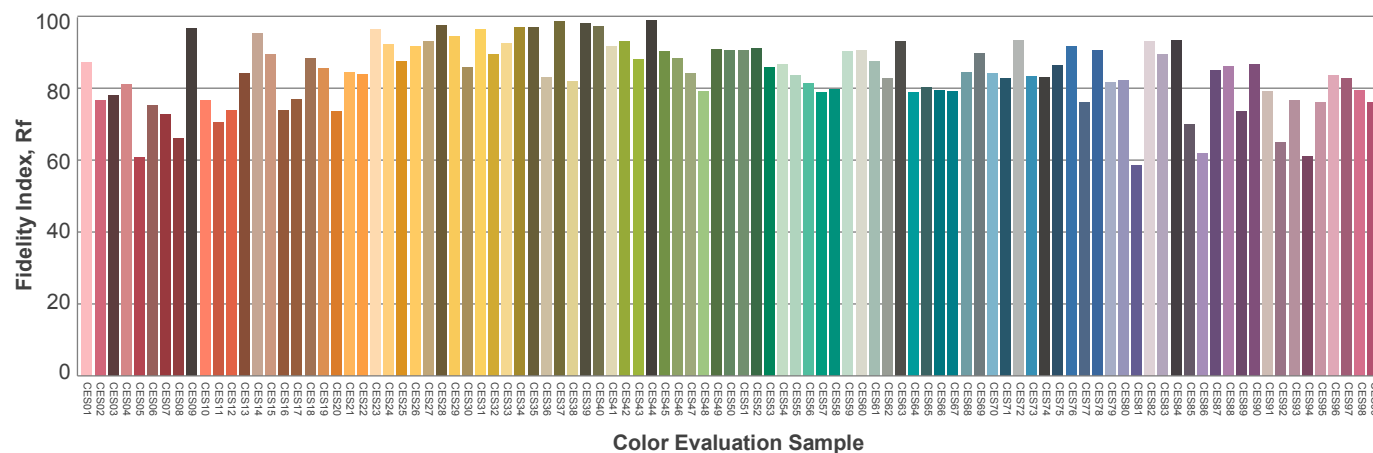
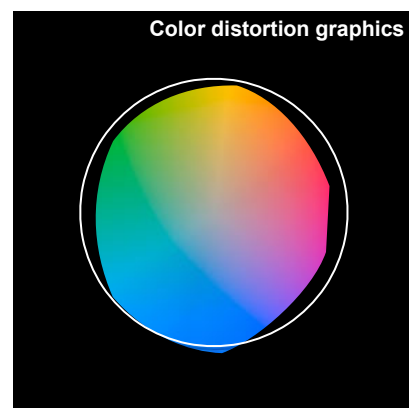
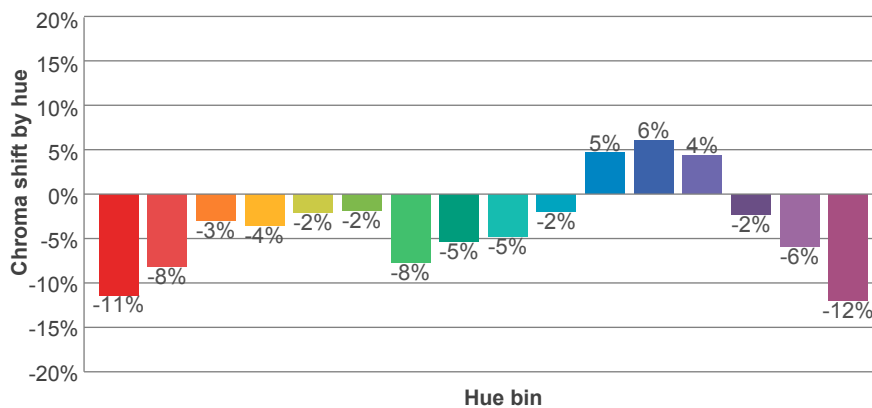
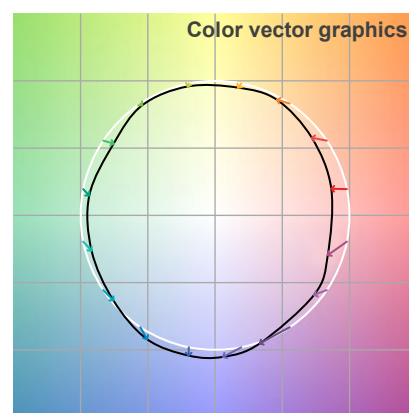
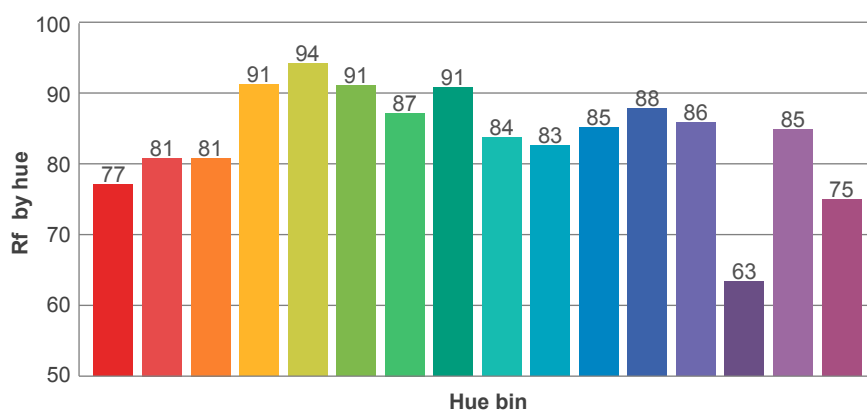
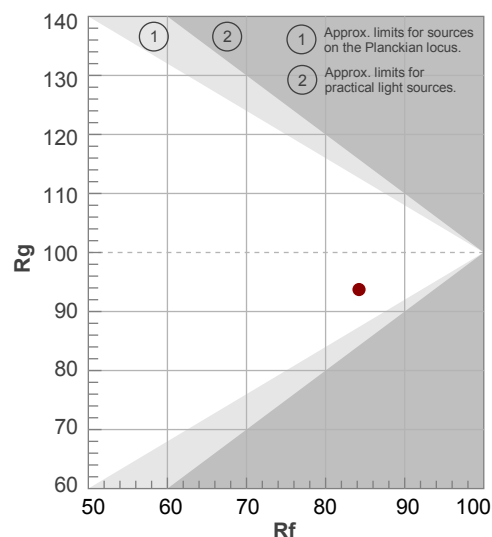
Rf 84,2

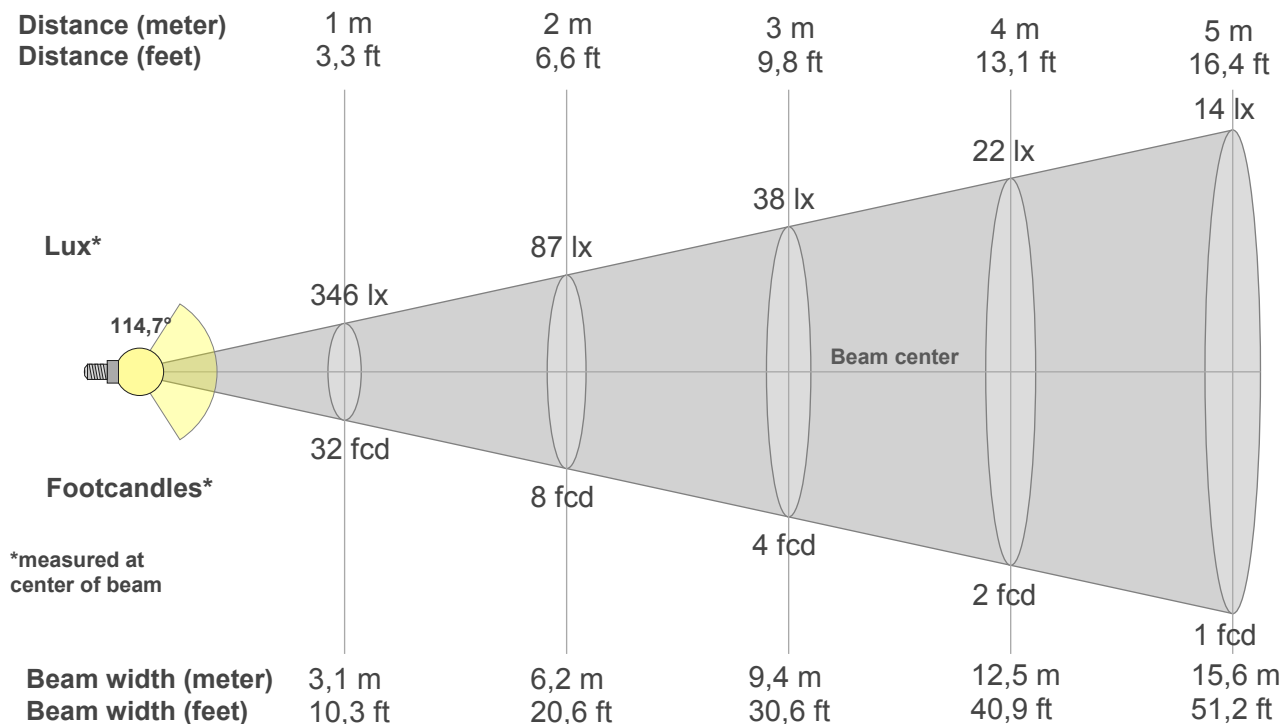
Fidelity index Rf

Rg 93,7

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	77	-11%	3%
2	81	-8%	8%
3	81	-3%	9%
4	91	-4%	2%
5	94	-2%	1%
6	91	-2%	0%
7	87	-8%	-2%
8	91	-5%	4%
9	84	-5%	8%
10	83	-2%	11%
11	85	5%	9%
12	88	6%	1%
13	86	4%	-15%
14	63	-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
346lx	87lx	38lx	22lx	14lx	10lx	7lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx
32,2fcd	8fcd	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°
346	346	342	334	325	312	299	282	263	240	214	183	149	110	70	39	18	7	2	2
100%	100%	99%	96%	94%	90%	86%	81%	76%	69%	62%	53%	43%	32%	20%	11%	5%	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°
346	345	341	335	326	314	300	284	265	243	218	191	161	128	91	54	26	8	1	1
100%	100%	98%	97%	94%	91%	87%	82%	77%	70%	63%	55%	46%	37%	26%	16%	7%	2%	0%	0%

Intensities in 180° c-plane

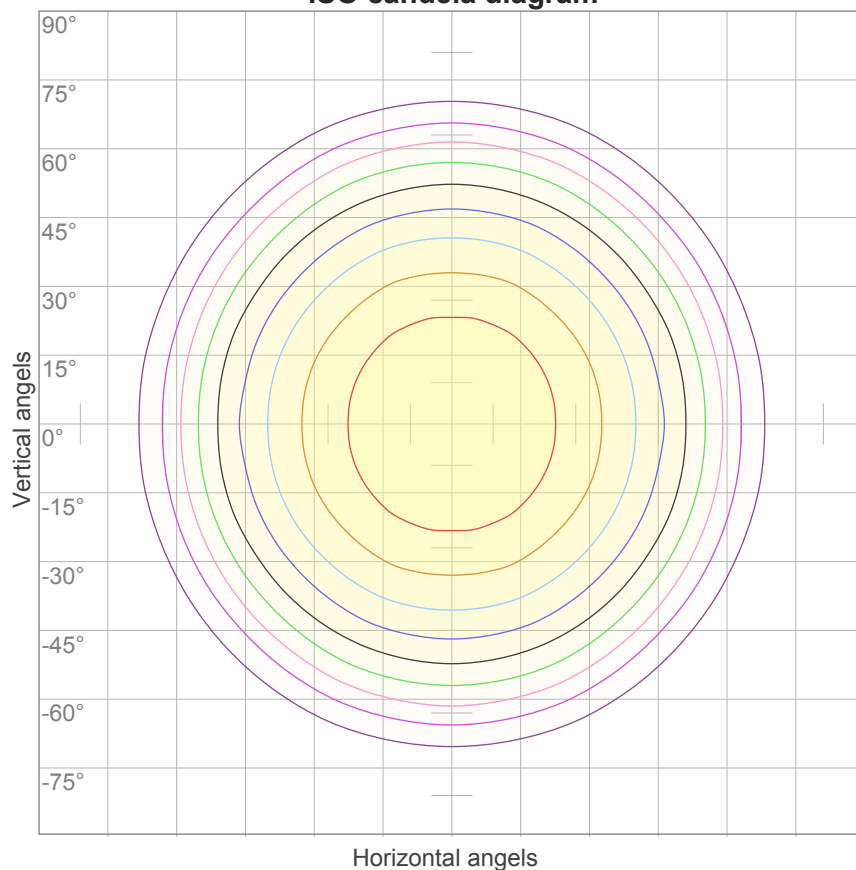
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
346	346	342	334	325	312	299	282	263	240	214	183	149	110	70	39	18	7	2	2
100%	100%	99%	96%	94%	90%	86%	81%	76%	69%	62%	53%	43%	32%	20%	11%	5%	2%	1%	1%

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°
346	345	341	335	326	314	300	284	265	243	218	191	161	128	91	54	26	8	1	1
100%	100%	98%	97%	94%	91%	87%	82%	77%	70%	63%	55%	46%	37%	26%	16%	7%	2%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114,7°	154°	169,6°	81,4%	55,0%

ISO candela diagram



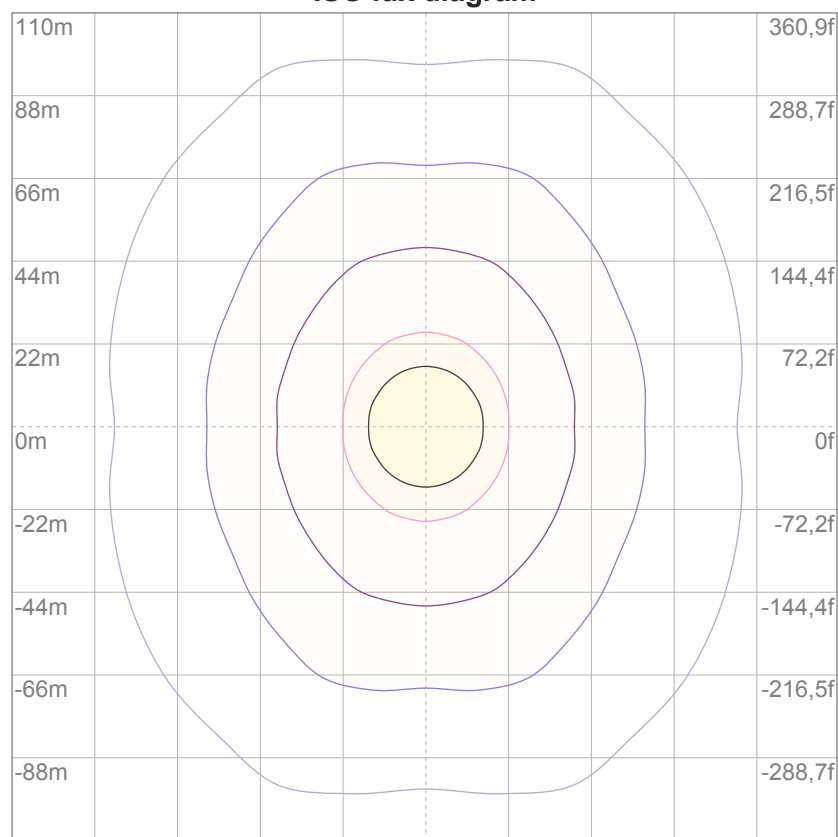
10%	35 cd
20%	69 cd
30%	104 cd
40%	139 cd
50%	173 cd
60%	208 cd
70%	243 cd
80%	277 cd
90%	312 cd

Conditions:

Number of c-planes: 16

Candela at center: 346 cd

ISO lux diagram



3%	0,104 lx
5%	0,173 lx
10%	0,346 lx
30%	1,04 lx
50%	1,73 lx

Conditions:

Number of c-planes: 16

Lux at center: 3,46 lx

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

Glare Evaluation According to UGR

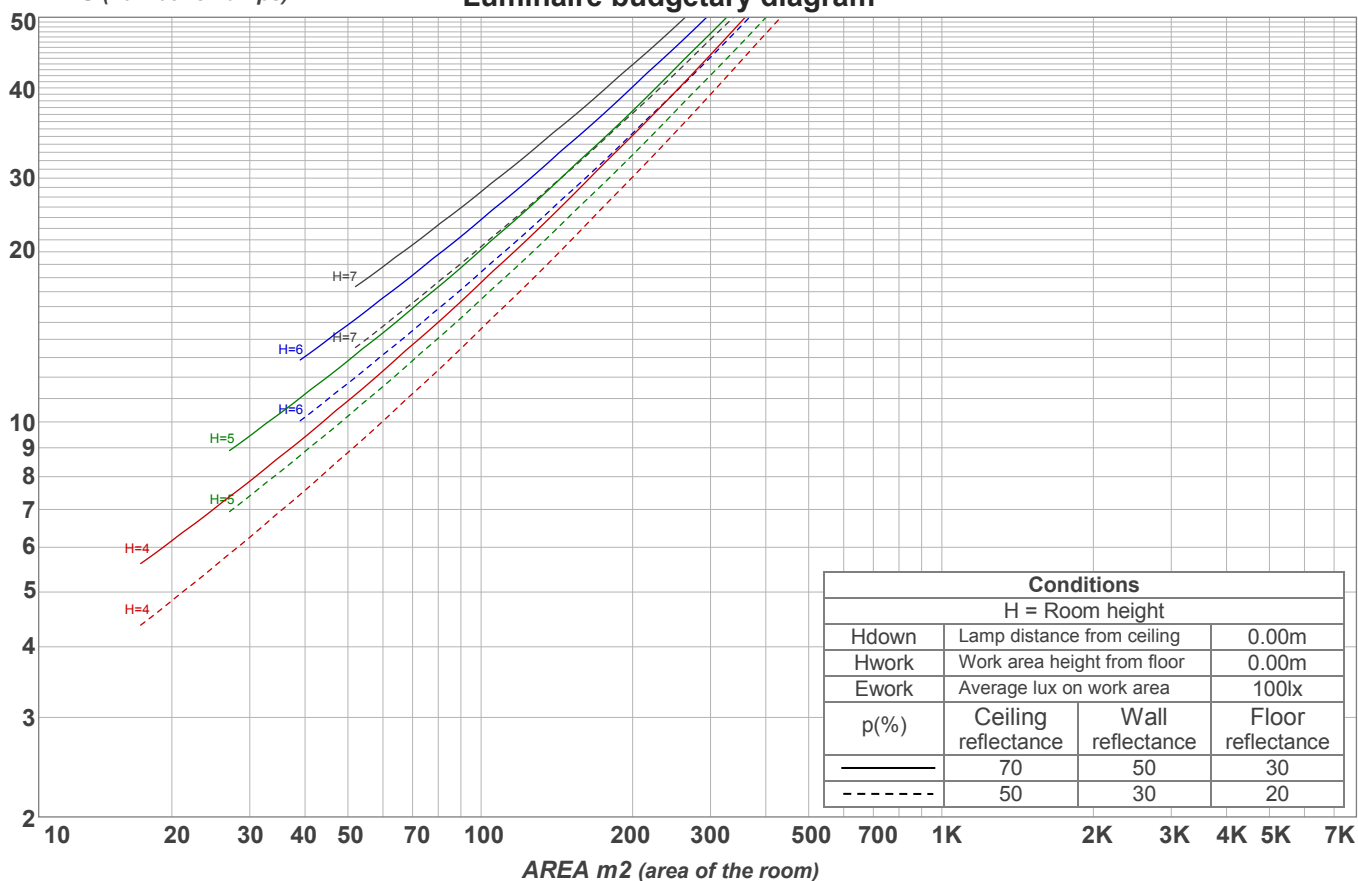
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	24,3	25,5	24,5	25,8	26,0	24,6	25,8	24,8	26,1	26,3
	3H	25,3	26,5	25,7	26,8	27,0	25,9	27,1	26,3	27,4	27,6
	4H	25,5	26,7	25,9	27,0	27,2	26,3	27,5	26,7	27,8	28,0
	6H	25,7	26,7	26,0	27,0	27,4	26,6	27,6	26,9	27,9	28,3
	8H	25,7	26,7	26,1	27,0	27,4	26,6	27,6	26,9	27,9	28,3
	12H	25,7	26,7	26,1	27,0	27,4	26,6	27,5	26,9	27,9	28,3
4H	2H	24,9	26,0	25,3	26,3	26,6	25,1	26,3	25,5	26,5	26,8
	3H	26,1	27,1	26,5	27,4	27,8	26,6	27,6	27,0	28,0	28,4
	4H	26,4	27,2	26,8	27,7	28,2	27,1	28,0	27,5	28,4	28,9
	6H	26,5	27,4	27,0	27,7	28,1	27,4	28,2	27,9	28,6	28,9
	8H	26,5	27,3	27,0	27,7	28,1	27,4	28,2	27,9	28,5	28,9
	12H	26,5	27,2	27,0	27,6	28,1	27,4	28,1	27,9	28,5	29,0
8H	4H	26,5	27,3	27,0	27,7	28,0	27,2	28,0	27,7	28,3	28,7
	6H	26,8	27,3	27,3	27,8	28,3	27,6	28,1	28,1	28,6	29,1
	8H	26,8	27,4	27,4	27,9	28,5	27,7	28,2	28,2	28,7	29,3
	12H	26,9	27,3	27,5	27,8	28,4	27,7	28,1	28,3	28,7	29,3
12H	4H	26,5	27,1	27,0	27,6	28,0	27,2	27,8	27,6	28,2	28,7
	6H	26,8	27,3	27,3	27,8	28,5	27,6	28,1	28,1	28,6	29,2
	8H	26,9	27,3	27,5	27,8	28,4	27,7	28,1	28,3	28,6	29,2
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,2					0,1 / -0,1				
S = 1.5H		0,3 / -0,5					0,2 / -0,4				
S = 2.0H		0,9 / -1,1					0,6 / -0,8				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 986 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	99
1	109	105	101	97	106	102	99	95	98	95	92	94	92	89	90	88	87	84
2	100	92	85	79	97	90	84	78	86	81	77	83	78	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

LAMPS (number of lamps)

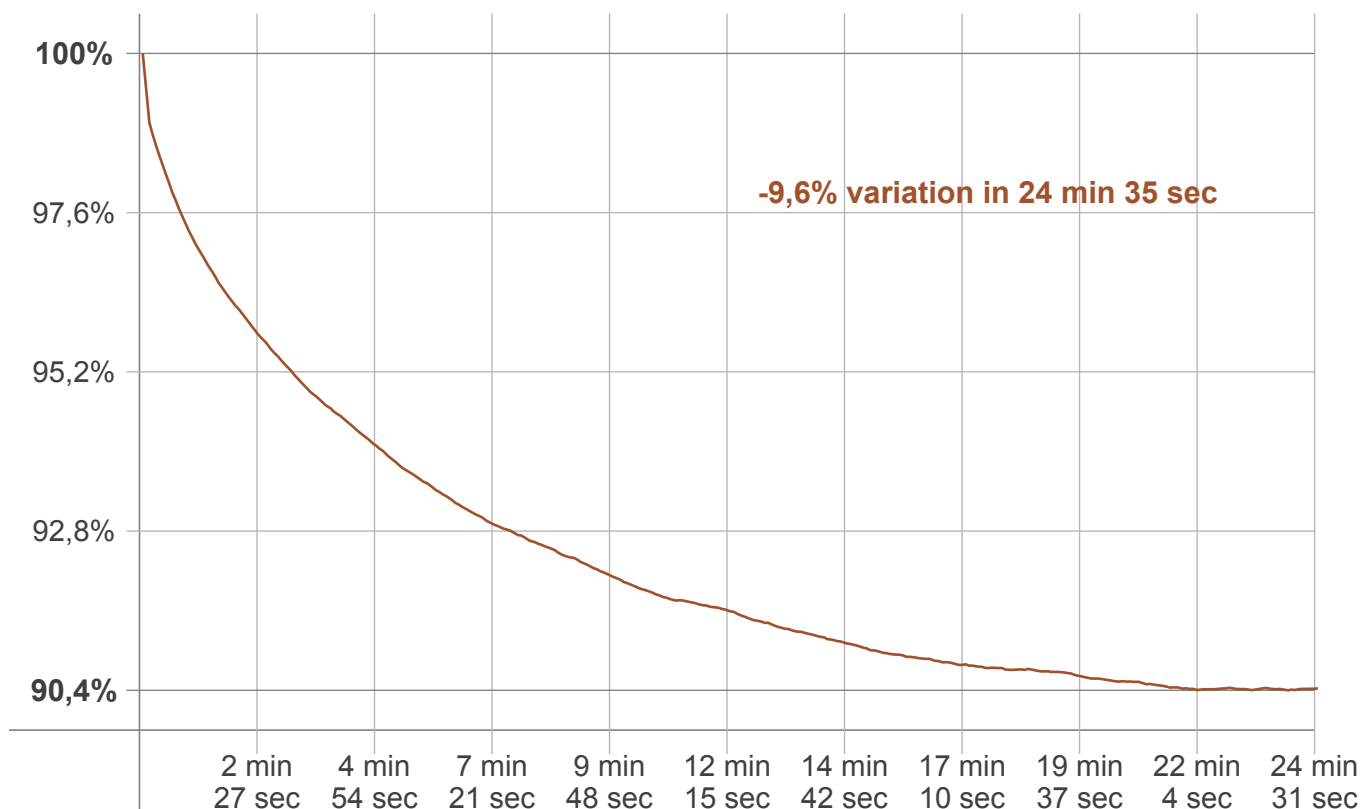
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
32,8 lm	94,5 lm	145 lm	177 lm	186 lm	167 lm	117 lm	50,4 lm	10,3 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1,70 lm	0,924 lm	0,797 lm	0,720 lm	0,455 lm	0,271 lm	0,200 lm	0,122 lm	0,041 lm

Warmup curve



Warmup result

Warmup time:	24 min 35 sec
Warmup variation	-10,4%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2255 K	-22 K	2233 K

Output change

Output start	Output change	Output end
1062 lm	-76 lm	986 lm