

Light efficiency:

83 Lumen/Watt

Light quality:

CRI: 82,0

Color temperature:

2236 K

Output: 999 lm

Peak: 473 cd

Power: 12,0 W

PF: 1,0



Product name:

Pegasus-3-Gold-0508-822-L6F

Item number:

FLNP-L-16A-0508-822-L6F

Date and time:

16.03.2021 16:45:17

Description:

Rank: M1A4T

Toleranzen:

Lumen +/-4%

Candela +/-2,5%

Colour Temp +/-35 Grad K

CRI +/-0,7

Angular Resolution 1 Grad step

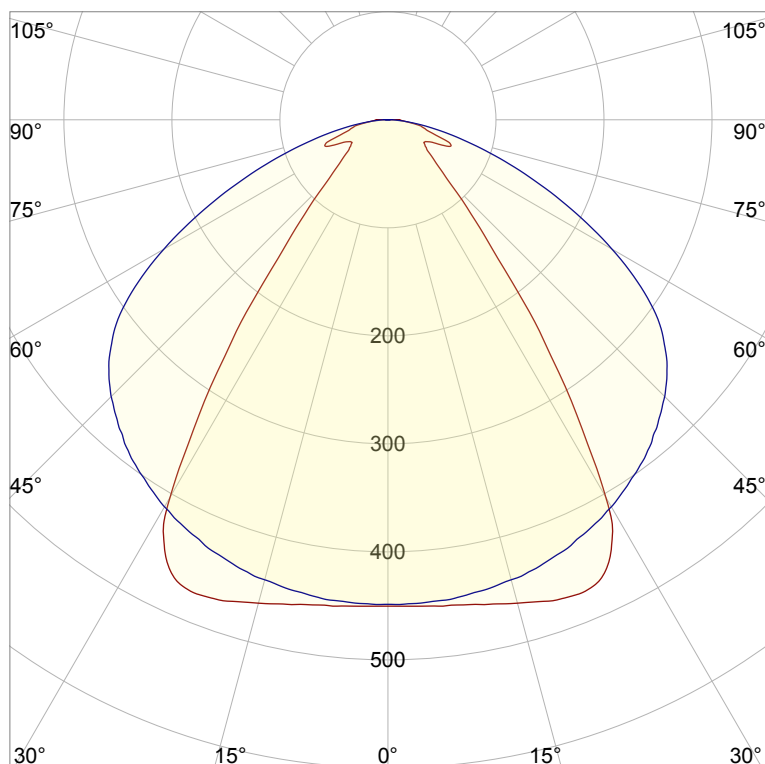
Last Calibration 20-05-2020

Pruefer: Peter Ulrich

Pruefort: Lichtlabor

Gaustrasse13-15

55411 Bingen am Rhein

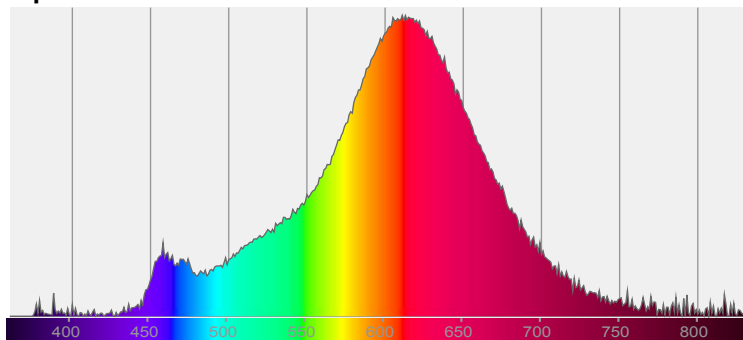


CIE 1931

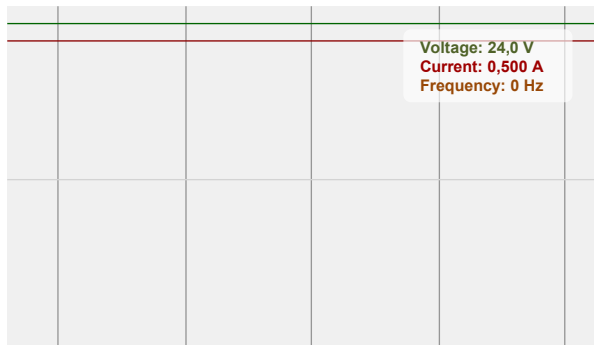
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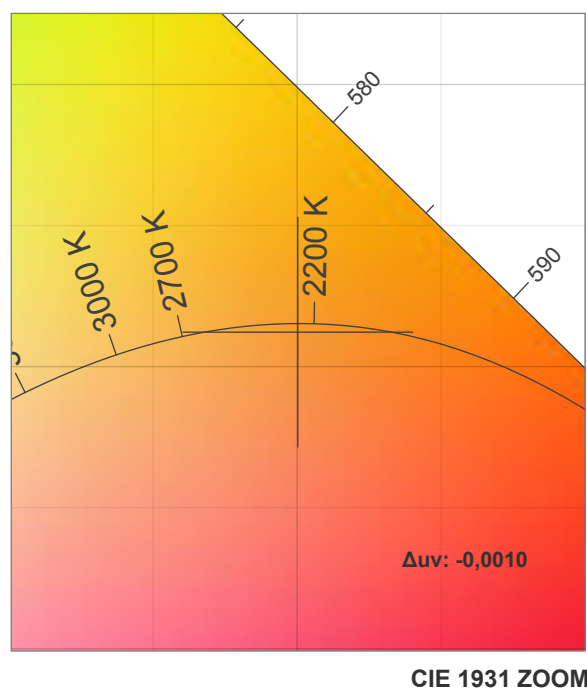
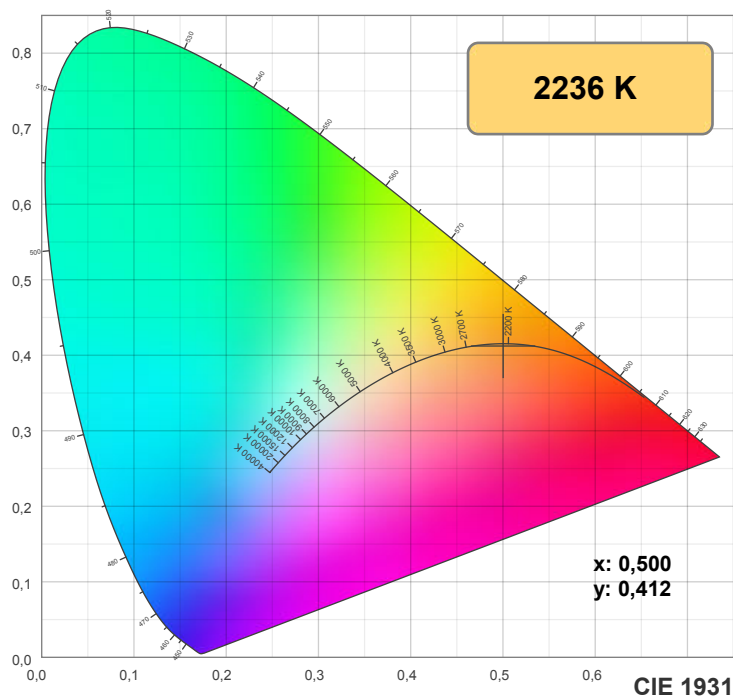
y: 0,412

Spectra

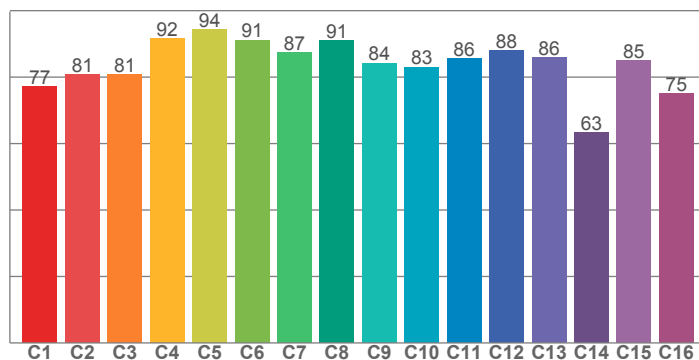


Power

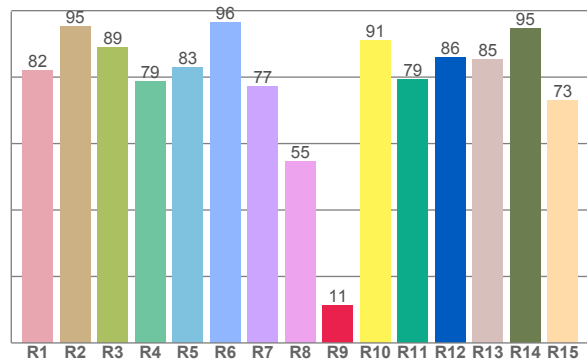




TM30: 84,4



CRI: 82,0 (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	96,5	77,3	54,5	11,4	90,9	79,3	86,0	85,4	94,8	73,0

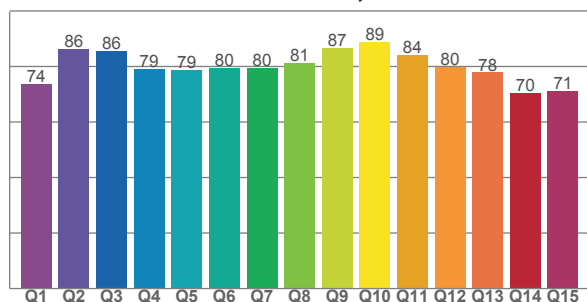
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
73,8	86,3	85,7	79,2	78,8	79,6	79,5	81,3	86,7	88,8	84,3	79,8	77,9	70,4	71,3

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
2236 K	82,0	11,4	84,4	93,8	79,1	0,500	0,412	0,288	0,356	-0,0010

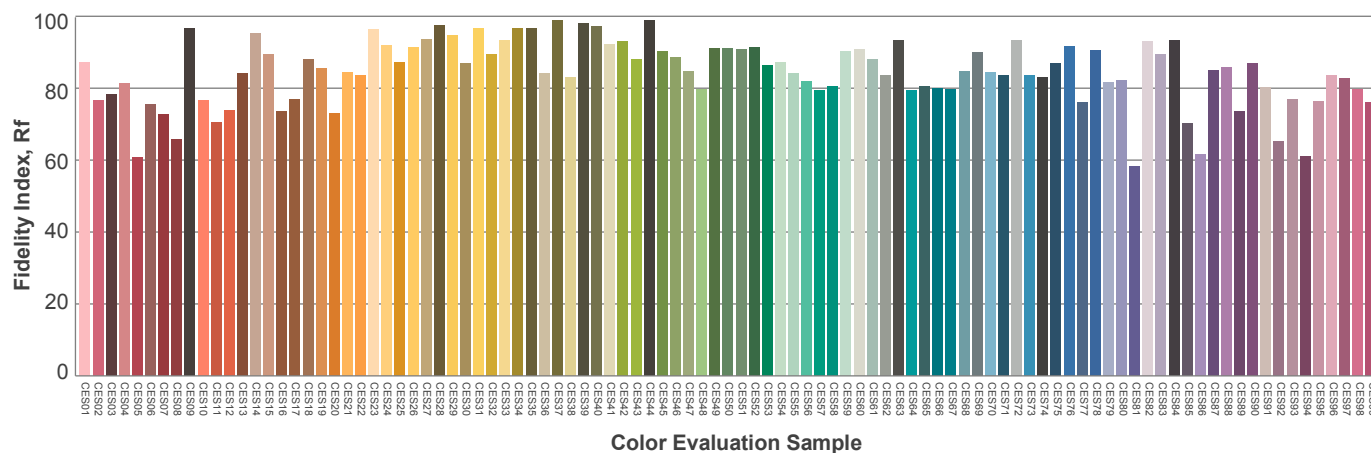
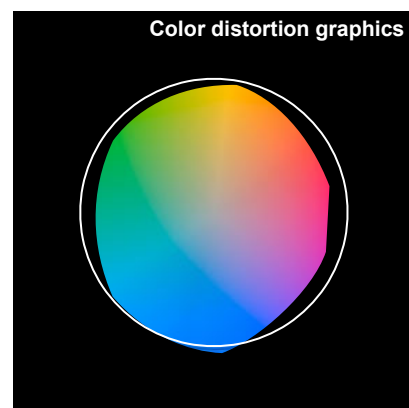
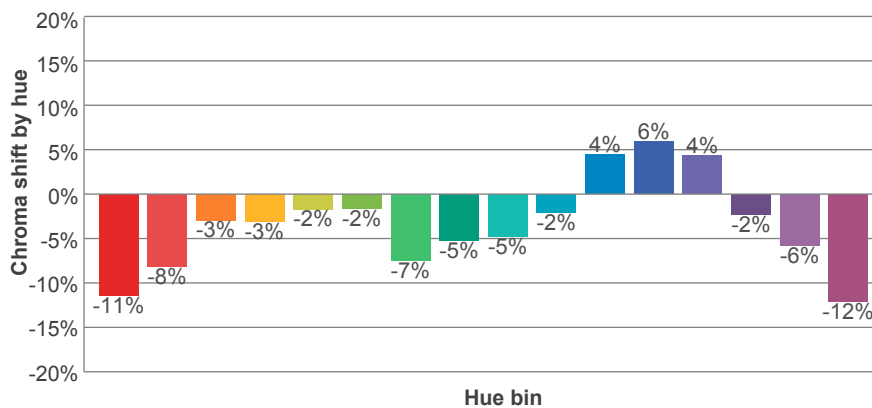
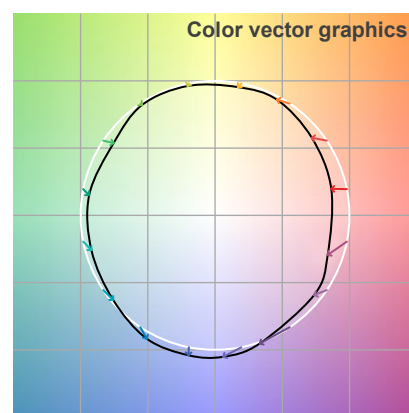
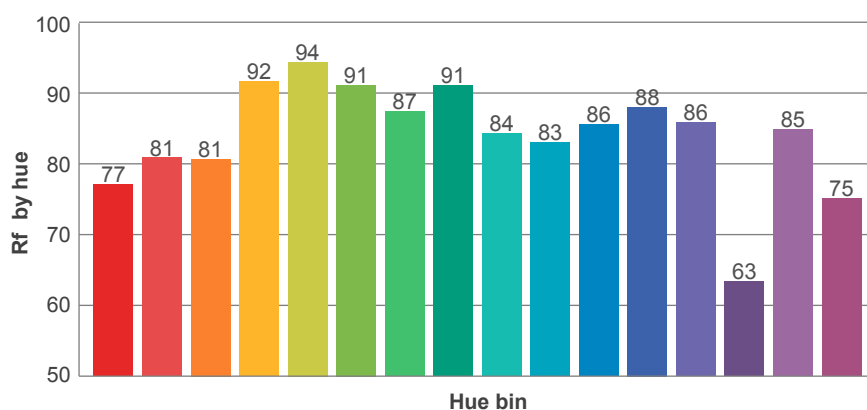
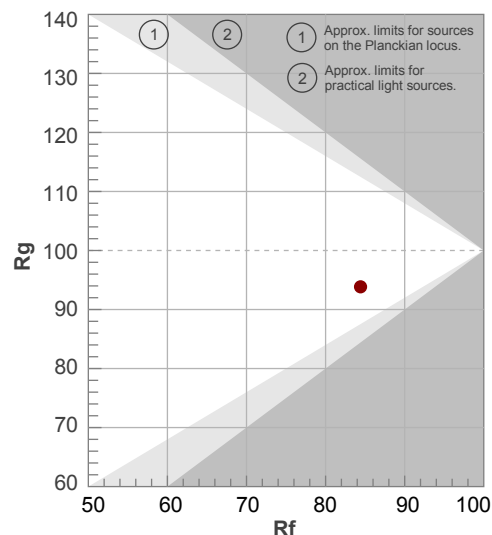
Rf 84,4

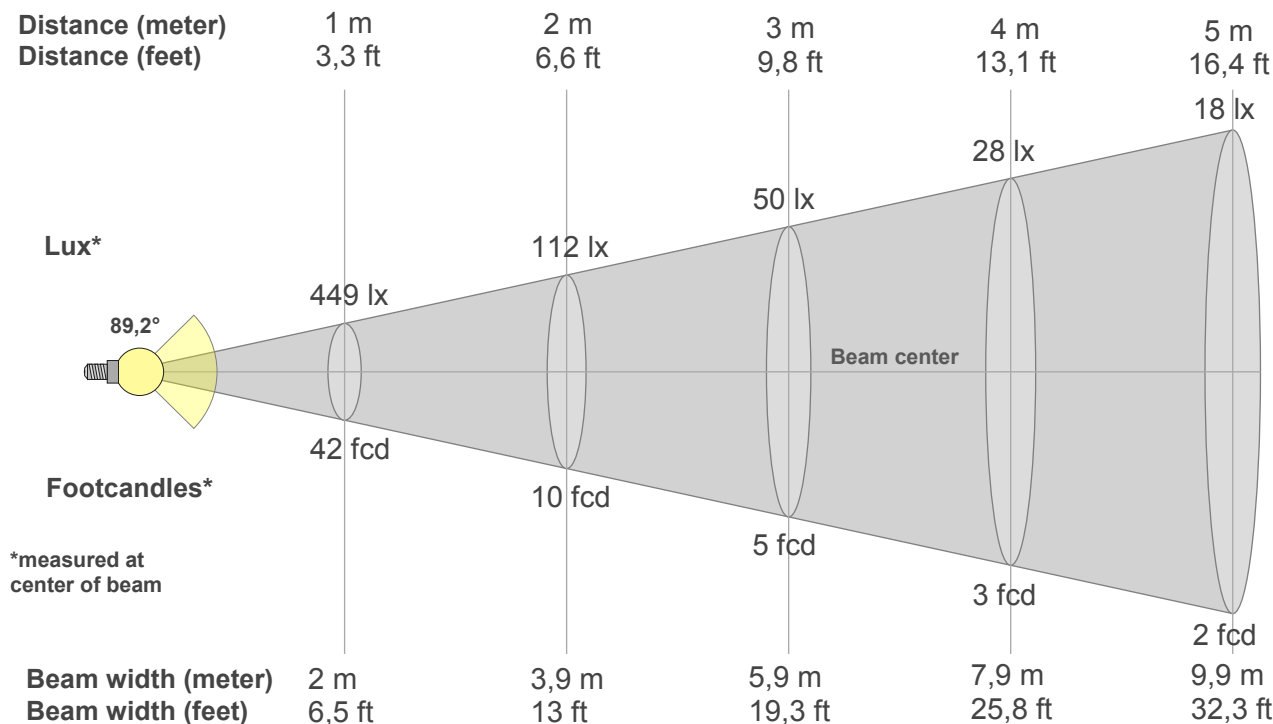
Fidelity index Rf

Rg 93,8

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	77	-11%	2%
2	81	-8%	8%
3	81	-3%	9%
4	92	-3%	2%
5	94	-2%	1%
6	91	-2%	0%
7	87	-7%	-3%
8	91	-5%	4%
9	84	-5%	7%
10	83	-2%	10%
11	86	4%	9%
12	88	6%	1%
13	86	4%	-15%
14	63	-2%	-25%
15	85	-6%	-8%
16	75	-12%	-12%





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
449lx	112lx	50lx	28lx	18lx	12lx	9lx	7lx	6lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx
41,7fcd	10,4fcd	4,6fcd	2,6fcd	1,7fcd	1,2fcd	0,9fcd	0,7fcd	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°
449	452	456	463	472	468	402	256	137	77	53	42	40	55	59	37	29	15	4	4
100%	101%	101%	103%	105%	104%	90%	57%	31%	17%	12%	9%	9%	12%	13%	8%	6%	3%	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°
449	448	445	441	434	425	414	399	382	362	336	297	239	176	119	72	38	14	2	0
100%	100%	99%	98%	97%	95%	92%	89%	85%	81%	75%	66%	53%	39%	27%	16%	8%	3%	0%	0%

Intensities in 180° c-plane

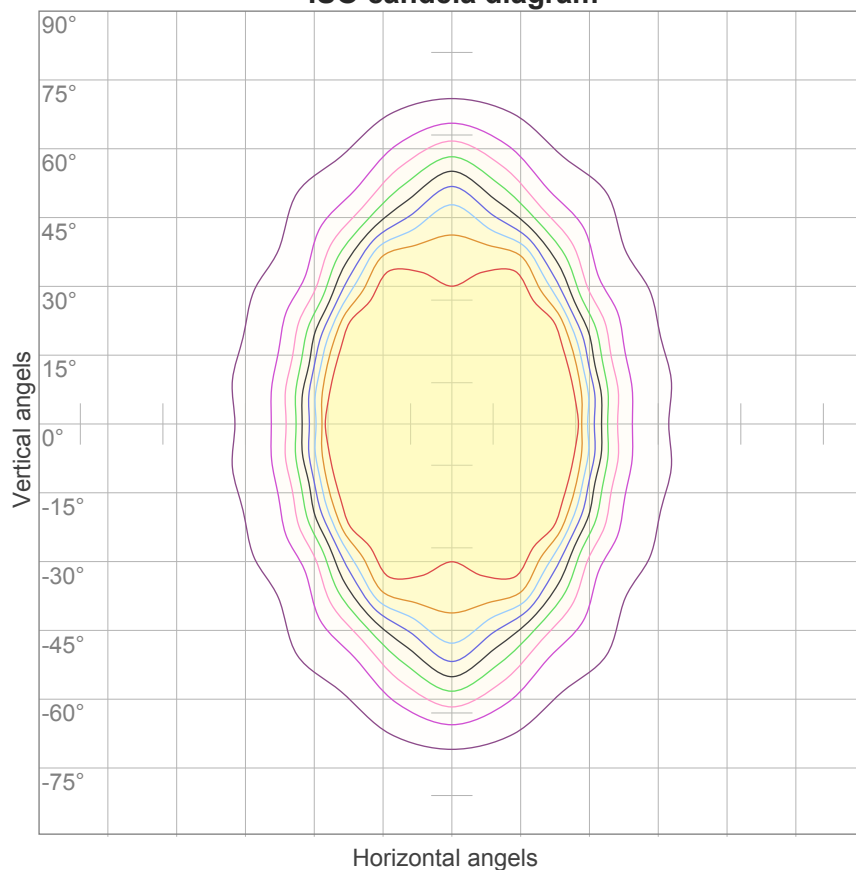
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
449	452	456	463	472	468	402	256	137	77	53	42	40	55	59	37	29	15	4	4
100%	101%	101%	103%	105%	104%	90%	57%	31%	17%	12%	9%	9%	12%	13%	8%	6%	3%	1%	1%

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°
449	448	445	441	434	425	414	399	382	362	336	297	239	176	119	72	38	14	2	0
100%	100%	99%	98%	97%	95%	92%	89%	85%	81%	75%	66%	53%	39%	27%	16%	8%	3%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
89,2°	138,7°	176,3°	86,0%	69,1%

ISO candela diagram



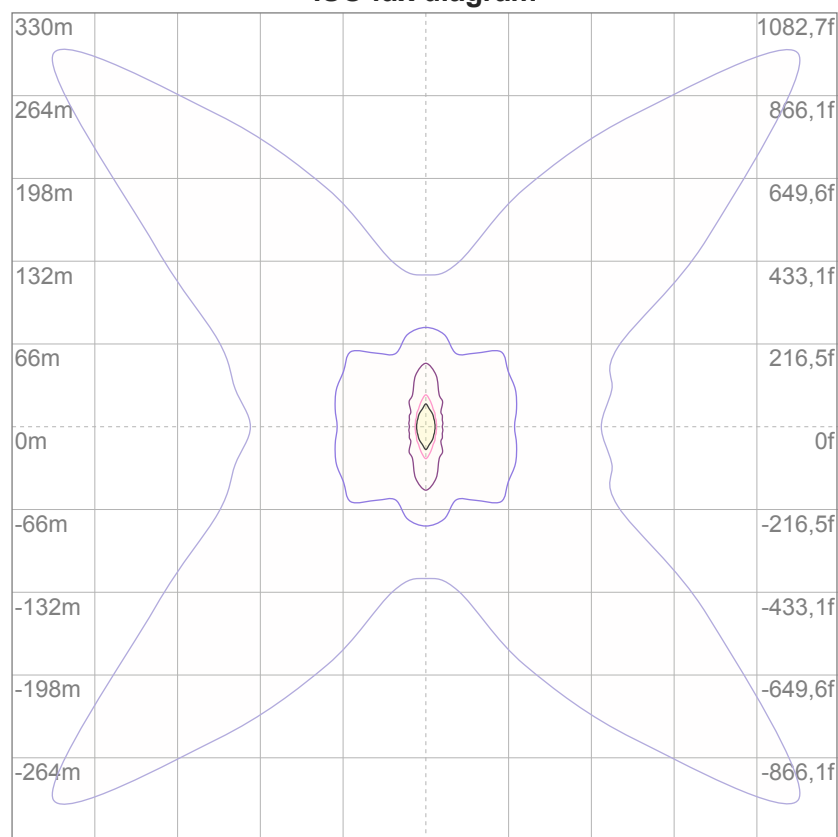
10%	45 cd
20%	90 cd
30%	135 cd
40%	180 cd
50%	225 cd
60%	269 cd
70%	314 cd
80%	359 cd
90%	404 cd

Conditions:

Number of c-planes: 16

Candela at center: 449 cd

ISO lux diagram



3%	0,135 lx
5%	0,225 lx
10%	0,449 lx
30%	1,35 lx
50%	2,25 lx

Conditions:

Number of c-planes: 16

Lux at center: 4,49 lx

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

Glare Evaluation According to UGR

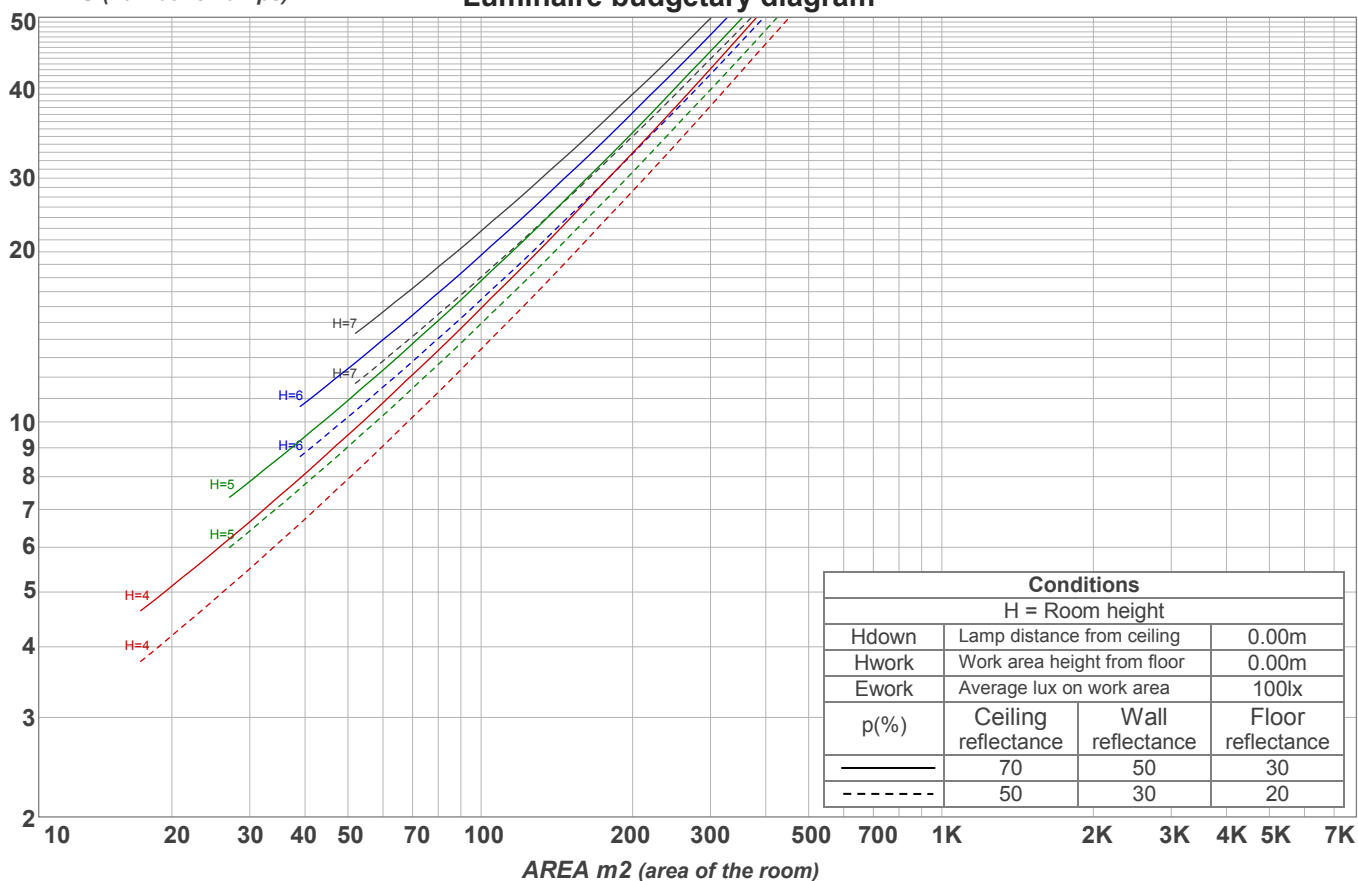
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	16,7	17,7	16,9	18,0	18,2	24,4	25,5	24,6	25,8	26,0
	3H	18,3	19,4	18,7	19,7	19,9	25,5	26,6	25,9	26,8	27,0
	4H	19,0	20,0	19,4	20,3	20,5	25,9	27,0	26,3	27,2	27,5
	6H	19,5	20,4	19,8	20,7	21,1	26,3	27,2	26,6	27,5	27,8
	8H	19,7	20,6	20,0	20,9	21,3	26,3	27,2	26,7	27,5	28,0
	12H	19,8	20,6	20,1	21,0	21,4	26,4	27,2	26,7	27,6	28,0
4H	2H	17,2	18,2	17,6	18,5	18,7	24,2	25,2	24,6	25,5	25,7
	3H	19,2	20,0	19,5	20,4	20,8	25,4	26,3	25,8	26,6	27,1
	4H	19,9	20,7	20,3	21,1	21,6	25,8	26,6	26,3	27,1	27,6
	6H	20,5	21,3	21,0	21,6	22,0	26,2	27,0	26,7	27,4	27,7
	8H	20,7	21,4	21,2	21,8	22,2	26,4	27,1	26,9	27,4	27,8
	12H	20,9	21,4	21,4	21,9	22,3	26,4	27,0	26,9	27,4	27,9
8H	4H	20,2	20,9	20,7	21,3	21,7	25,8	26,5	26,3	26,9	27,3
	6H	21,0	21,6	21,5	22,0	22,6	26,3	26,8	26,8	27,2	27,8
	8H	21,4	21,8	21,9	22,3	23,0	26,5	26,9	27,0	27,4	28,1
	12H	21,6	22,0	22,2	22,5	23,1	26,6	27,0	27,2	27,5	28,1
12H	4H	20,2	20,8	20,7	21,2	21,7	25,8	26,4	26,3	26,8	27,2
	6H	21,2	21,6	21,7	22,1	22,8	26,3	26,7	26,8	27,2	27,9
	8H	21,5	21,9	22,1	22,4	23,0	26,5	26,8	27,0	27,3	27,9
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,7 / -0,4					0,5 / -0,7				
S = 1.5H		1,5 / -0,9					1,5 / -2,0				
S = 2.0H		2,5 / -0,9					2,6 / -3,1				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 999 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	110	106	102	99	107	103	100	97	99	96	94	95	93	90	91	89	88	86
2	101	94	88	83	99	92	87	82	89	84	80	85	81	78	82	79	76	74
3	94	84	77	72	91	83	76	71	80	74	69	77	72	68	74	70	67	65
4	87	76	68	62	85	75	68	62	72	66	61	70	64	60	68	63	59	57
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	58	52	48	57	52	47	46
7	70	58	50	44	68	57	49	44	55	49	44	54	48	43	52	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	46	38	33	57	45	38	33	44	37	33	43	37	33	42	37	33	31

LAMPS (number of lamps)

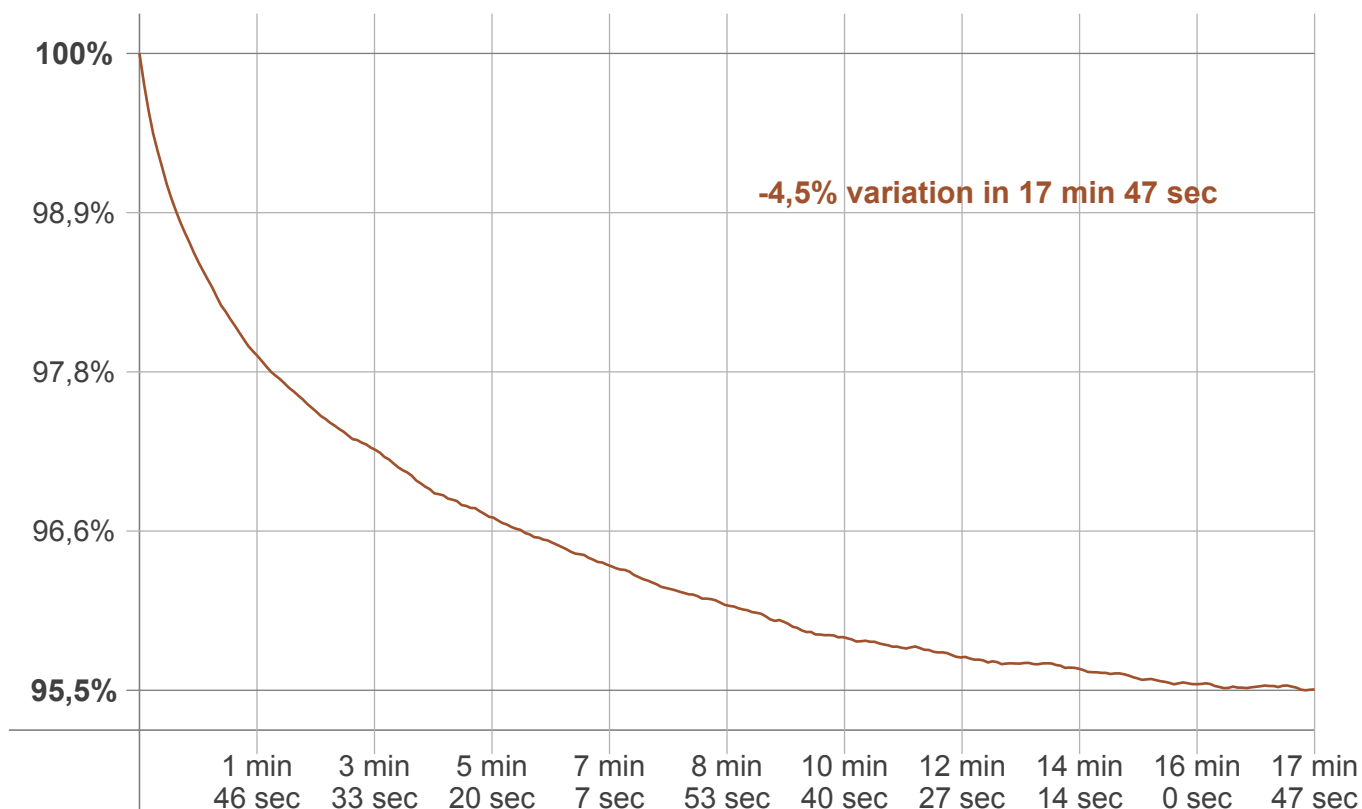
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
43,0 lm	128 lm	207 lm	224 lm	159 lm	98,2 lm	66,2 lm	43,5 lm	18,8 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
3,51 lm	3,38 lm	2,29 lm	1,28 lm	0,622 lm	0,332 lm	0,245 lm	0,150 lm	0,050 lm

Warmup curve



Warmup result

Warmup time:	17 min 47 sec
Warmup variation	-4,5%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2236 K	0 K	2236 K

Output change

Output start	Output change	Output end
1040 lm	-40 lm	999 lm