

Light efficiency:

124 Lumen/Watt

Light quality:

CRI: 83,5

Color temperature:

4060 K

Output: 1014 lm

Peak: 396 cd

Power: 8,2 W

PF: 1,0



Product name:

Pegasus-3-Gold-0508-840-L9F

Item number:

FLNP-L-16A-0508-840-L9F

Date and time:

23.02.2021 11:34:40

Description:

Rank: S15ZT

Toleranzen:

Lumen +/-4%

Candela +/-2,5%

Colour Temp +/-35 Grad K

CRI +/-0,7

Angular Resolution 1 Grad step

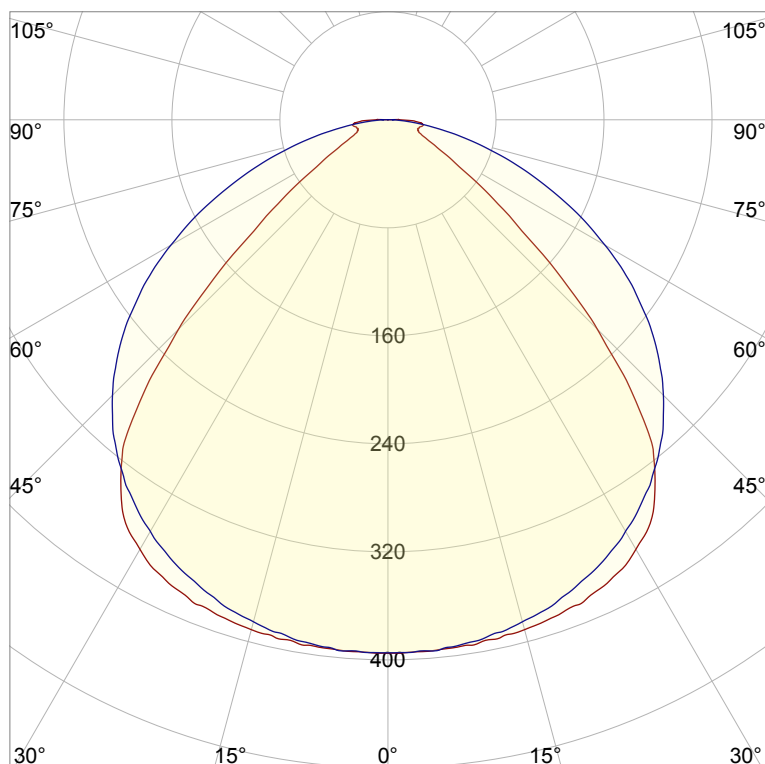
Last Calibration 20-05-2020

Pruefer: Peter Ulrich

Pruefort: Lichtlabor

Gaustrasse13-15

55411 Bingen am Rhein

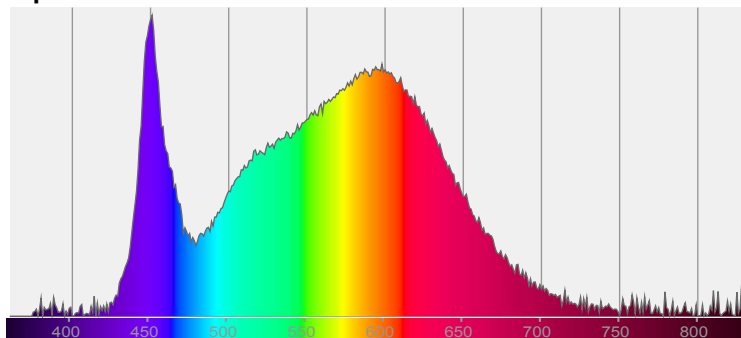


CIE 1931

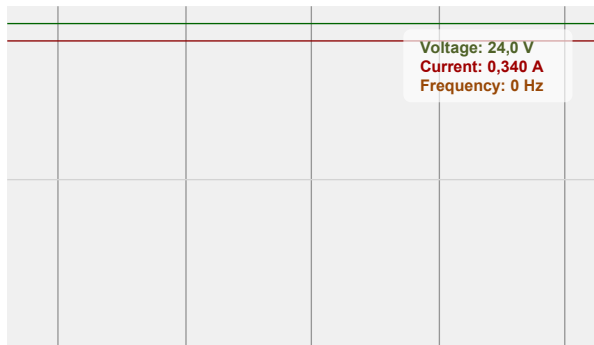
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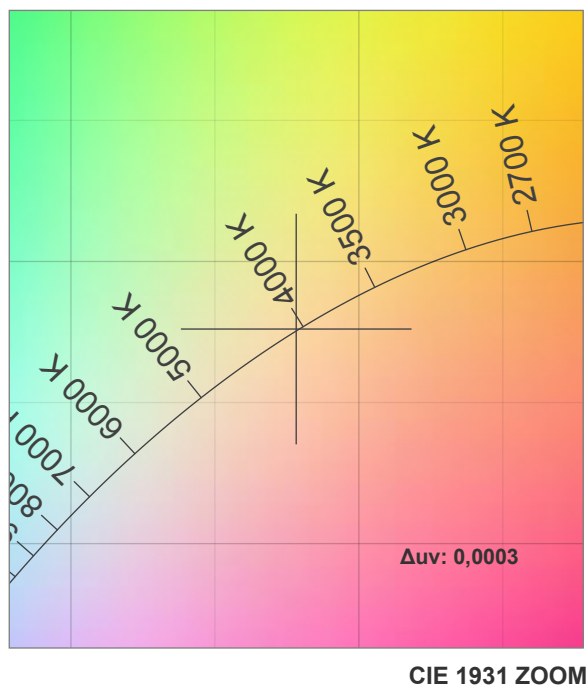
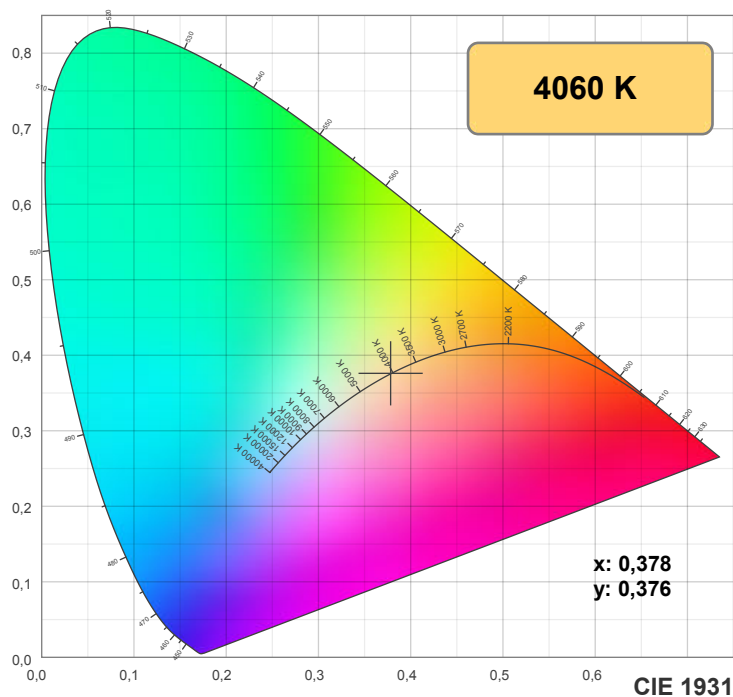
y: 0,376

Spectra

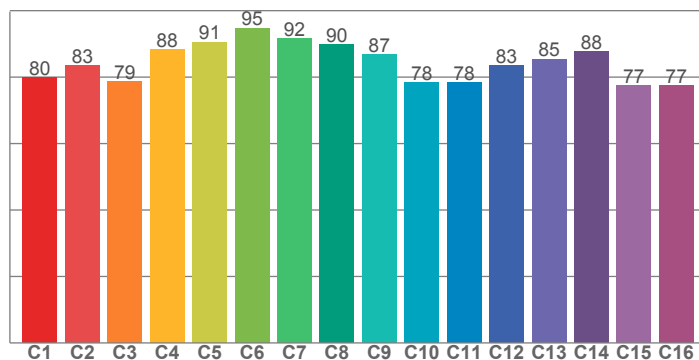


Power

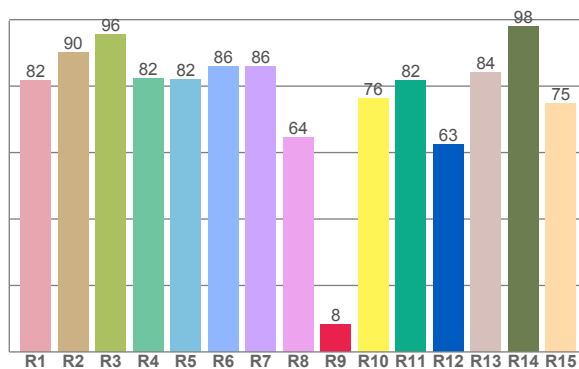




TM30: 84,3



CRI: 83,5 (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
81,8	90,0	95,5	82,4	81,9	86,0	85,8	64,5	8,4	76,3	81,6	62,6	84,0	97,9	74,8

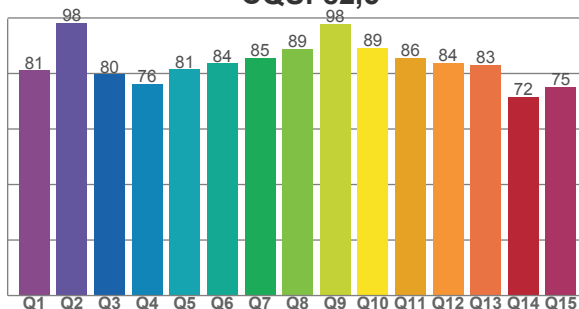
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80,0	83,5	78,7	88,4	90,6	94,8	91,6	89,7	86,8	78,4	78,4	83,4	85,5	87,6	77,4	77,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81,1	98,2	79,6	76,3	81,5	83,6	85,4	88,9	97,7	89,3	85,5	83,8	83,1	71,6	75,1

CQS: 82,5



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
4060 K	83,5	8,4	84,3	95,3	82,5	0,378	0,376	0,224	0,334	0,0003

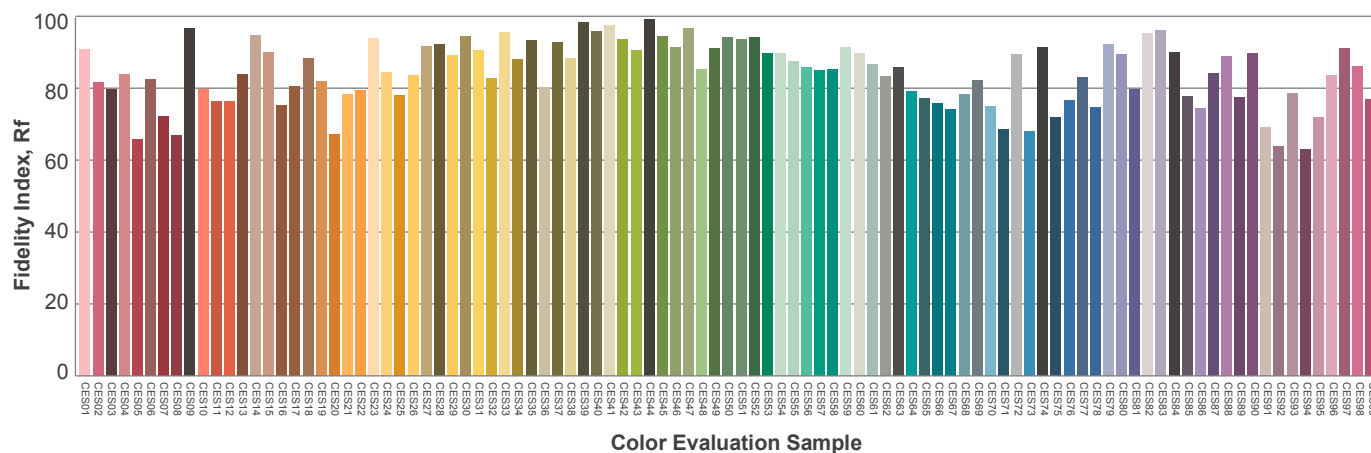
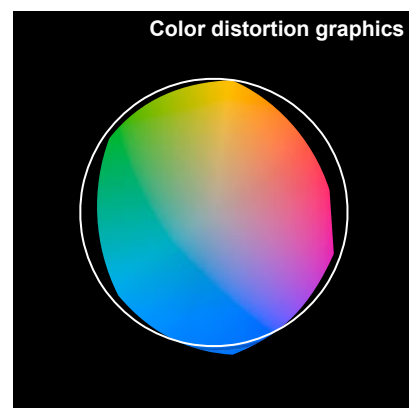
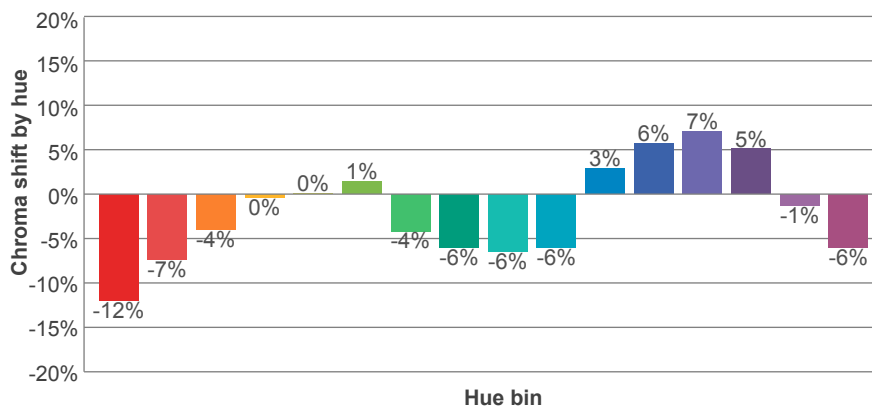
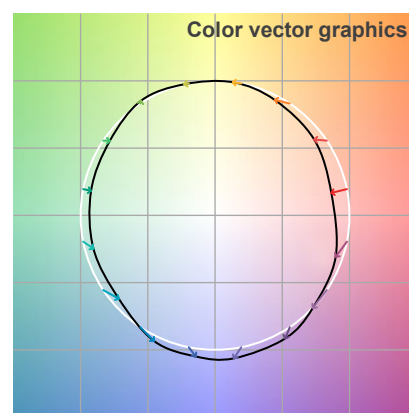
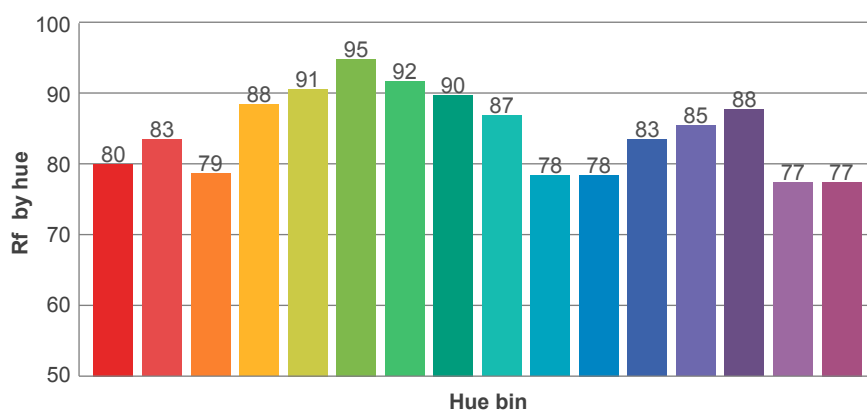
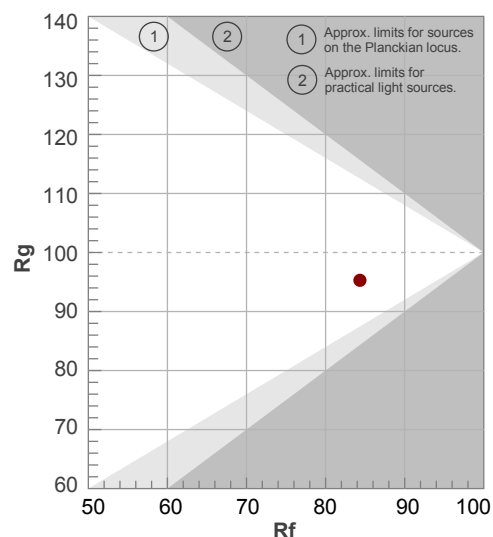
Rf 84,3

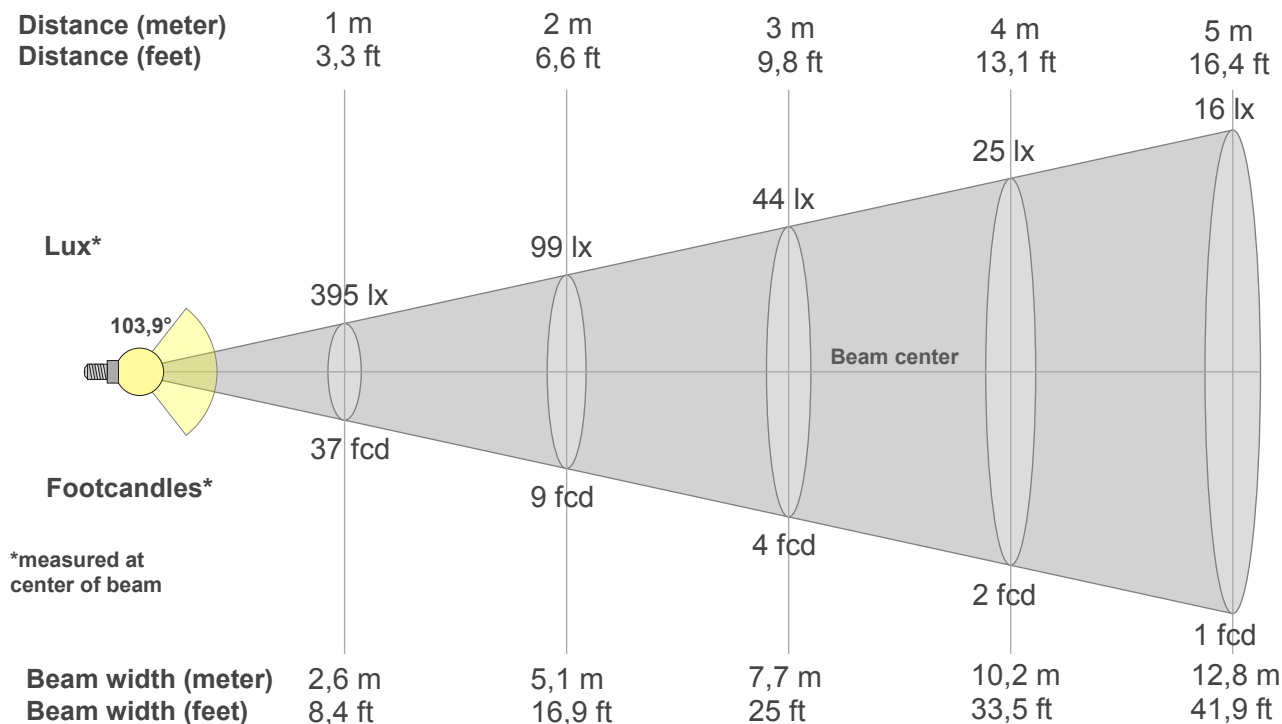
Fidelity index Rf

Rg 95,3

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	80	-12%	0%
2	83	-7%	6%
3	79	-4%	11%
4	88	0%	6%
5	91	0%	3%
6	95	1%	-2%
7	92	-4%	-3%
8	90	-6%	0%
9	87	-6%	7%
10	78	-6%	12%
11	78	3%	14%
12	83	6%	6%
13	85	7%	-7%
14	88	5%	-8%
15	77	-1%	-17%
16	77	-6%	-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
395lx	99lx	44lx	25lx	16lx	11lx	8lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx
36,7fcd	9,2fcd	4,1fcd	2,3fcd	1,5fcd	1fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	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°
395	394	393	391	386	380	367	344	298	219	134	78	44	29	24	24	26	24	8	0
100%	100%	100%	99%	98%	96%	93%	87%	75%	56%	34%	20%	11%	7%	6%	6%	7%	6%	2%	0%

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°
395	395	391	385	376	366	352	335	314	288	259	224	185	145	106	69	37	15	2	2
100%	100%	99%	97%	95%	93%	89%	85%	79%	73%	65%	57%	47%	37%	27%	18%	9%	4%	1%	1%

Intensities in 180° c-plane

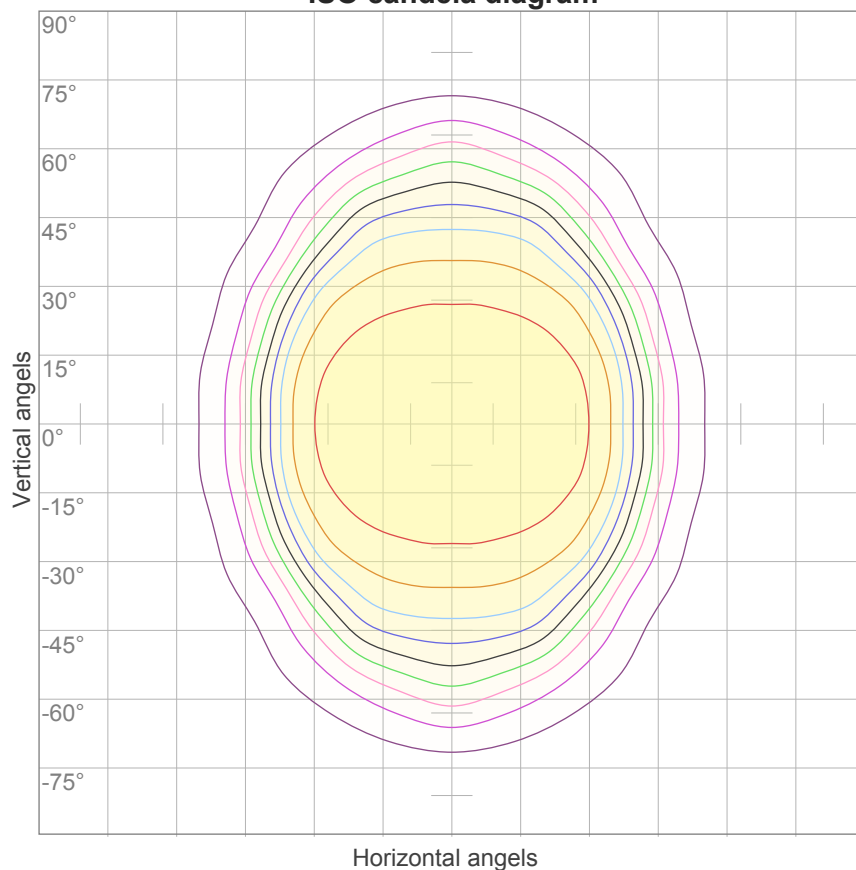
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
395	394	393	391	386	380	367	344	298	219	134	78	44	29	24	24	26	24	8	0
100%	100%	100%	99%	98%	96%	93%	87%	75%	56%	34%	20%	11%	7%	6%	6%	7%	6%	2%	0%

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°
395	395	391	385	376	366	352	335	314	288	259	224	185	145	106	69	37	15	2	2
100%	100%	99%	97%	95%	93%	89%	85%	79%	73%	65%	57%	47%	37%	27%	18%	9%	4%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
103,9°	138,6°	177,6°	86,1%	63,3%

ISO candela diagram



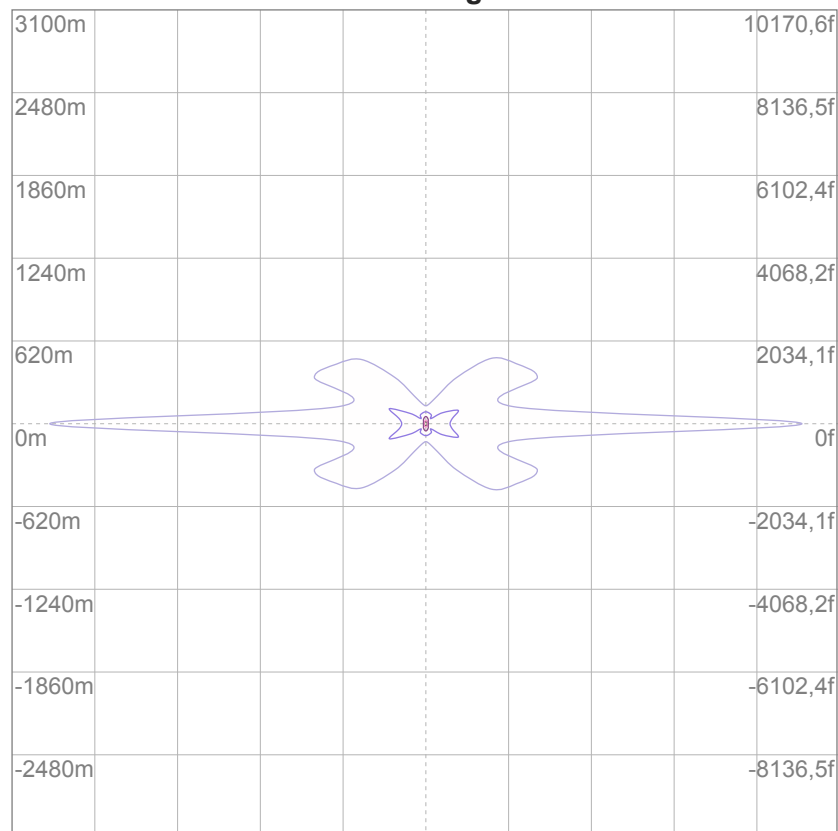
10%	40 cd
20%	79 cd
30%	119 cd
40%	158 cd
50%	198 cd
60%	237 cd
70%	277 cd
80%	316 cd
90%	356 cd

Conditions:

Number of c-planes: 16

Candela at center: 395 cd

ISO lux diagram



3%	0,119 lx
5%	0,198 lx
10%	0,395 lx
30%	1,19 lx
50%	1,98 lx

Conditions:

Number of c-planes: 16

Lux at center: 3,95 lx

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

Glare Evaluation According to UGR

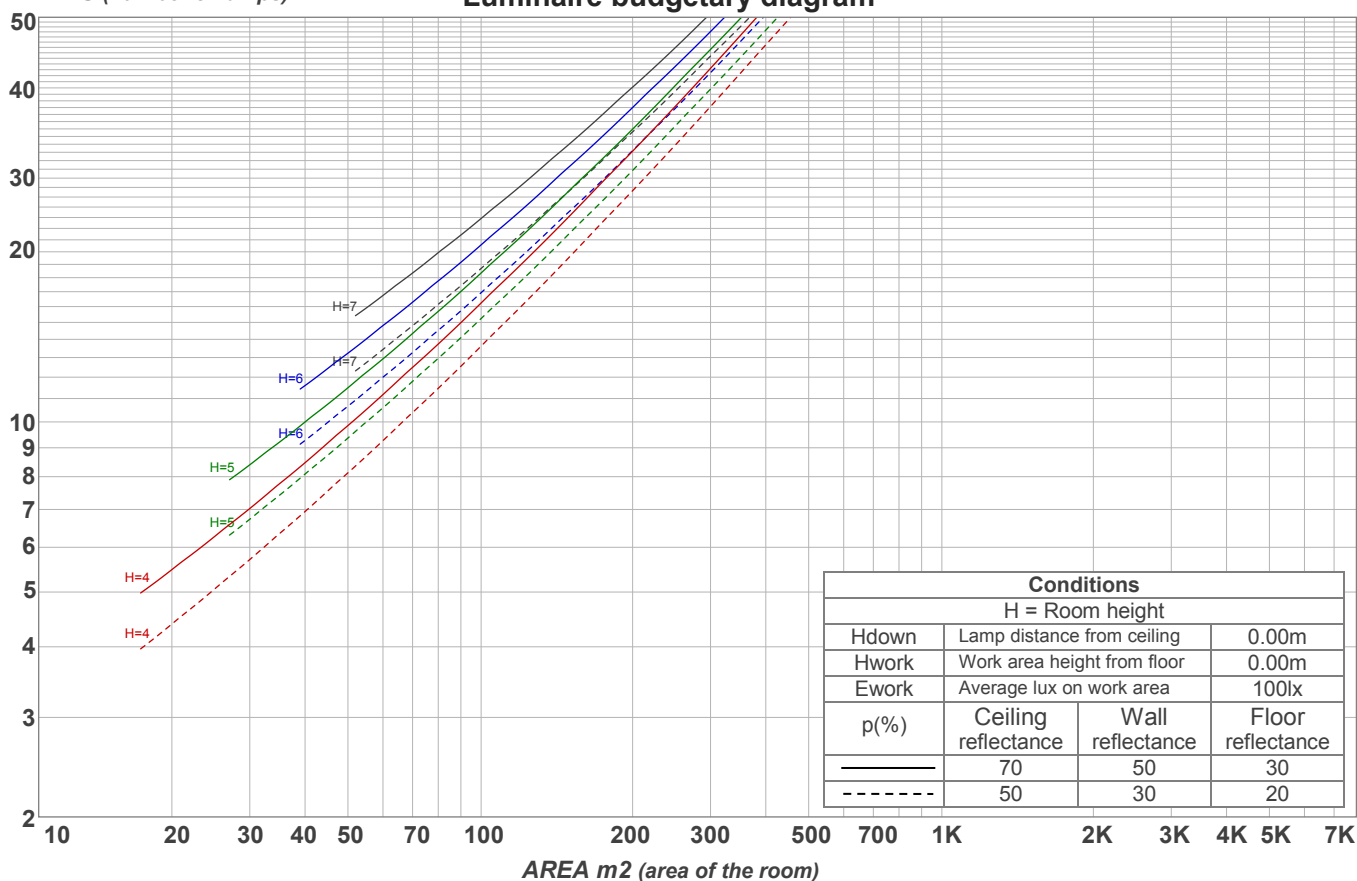
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	20,2	21,3	20,4	21,6	21,8	24,5	25,6	24,7	25,9	26,1
	3H	20,1	21,3	20,5	21,5	21,7	25,6	26,7	26,0	27,0	27,2
	4H	20,2	21,3	20,6	21,6	21,8	26,0	27,1	26,4	27,4	27,6
	6H	20,5	21,5	20,8	21,7	22,1	26,4	27,3	26,7	27,6	28,0
	8H	20,7	21,6	21,0	21,9	22,3	26,5	27,4	26,8	27,7	28,1
	12H	20,8	21,7	21,2	22,1	22,5	26,5	27,4	26,9	27,7	28,2
4H	2H	20,5	21,6	20,9	21,9	22,1	24,3	25,4	24,7	25,7	25,9
	3H	20,7	21,6	21,1	21,9	22,4	25,7	26,6	26,0	26,9	27,3
	4H	20,8	21,6	21,2	22,0	22,6	26,1	26,9	26,5	27,4	27,9
	6H	21,1	21,9	21,6	22,3	22,6	26,5	27,3	27,0	27,7	28,0
	8H	21,4	22,1	21,9	22,4	22,8	26,6	27,4	27,1	27,7	28,1
	12H	21,6	22,2	22,1	22,6	23,1	26,7	27,3	27,2	27,7	28,2
8H	4H	21,0	21,7	21,5	22,1	22,4	26,0	26,8	26,5	27,1	27,5
	6H	21,4	22,0	21,9	22,4	23,0	26,5	27,1	27,0	27,5	28,1
	8H	21,8	22,3	22,3	22,8	23,4	26,7	27,2	27,2	27,7	28,3
	12H	22,2	22,6	22,8	23,1	23,7	26,8	27,2	27,4	27,7	28,4
12H	4H	21,0	21,6	21,5	22,0	22,5	26,0	26,6	26,5	27,0	27,5
	6H	21,5	22,0	22,0	22,5	23,1	26,5	27,0	27,0	27,5	28,1
	8H	21,9	22,3	22,5	22,8	23,4	26,7	27,1	27,3	27,6	28,2
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,7 / -1,0					0,1 / -0,2				
S = 1.5H		1,5 / -1,7					0,7 / -0,9				
S = 2.0H		2,5 / -2,2					1,5 / -2,0				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1014 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	105	101	98	107	103	99	96	98	96	93	94	92	90	91	89	87	85
2	101	93	87	82	98	91	86	81	88	83	79	84	80	77	81	78	75	73
3	93	83	76	70	90	81	74	69	78	72	68	75	70	66	73	69	65	63
4	85	74	66	60	83	73	65	60	70	64	59	68	62	58	66	61	57	55
5	79	67	59	52	77	66	58	52	63	57	51	61	55	51	59	54	50	48
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	54	49	44	42
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	33	42	36	32	31
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	33	29	28

LAMPS (number of lamps)

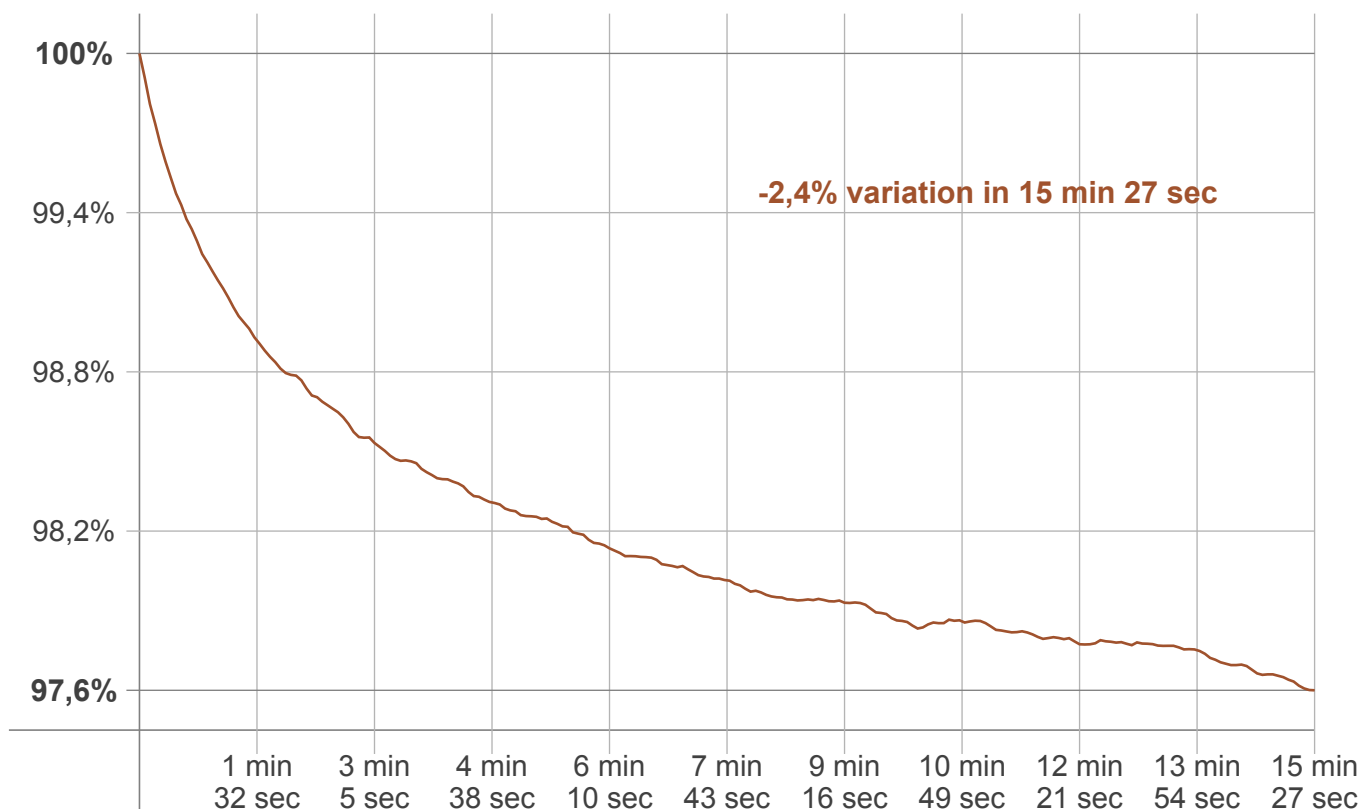
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
37,5 lm	110 lm	172 lm	214 lm	204 lm	135 lm	70,8 lm	36,7 lm	19,4 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
4,74 lm	2,25 lm	1,88 lm	1,70 lm	1,34 lm	1,02 lm	0,749 lm	0,459 lm	0,155 lm

Warmup curve



Warmup result

Warmup time:	15 min 27 sec
Warmup variation	-2,4%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
4045 K	+15 K	4060 K

Output change

Output start	Output change	Output end
1036 lm	-22 lm	1014 lm