

Light efficiency:

88 Lumen/Watt

Light quality:

CRI: 92,2

Color temperature:

3030 K

Output: 892 lm

Peak: 353 cd

Power: 10,1 W

PF: 1,0



Product name:

Pegasus-3-Gold-0508-930-L9F

Item number:

FLNP/L/16A0508/930/L9F

Date and time:

05.05.2021 11:17:28

Description:

Rank: M27ZT

Toleranzen:

Lumen +/-4%

Candela +/-2,5%

Colour Temp +/-35 K

CRI +/- 0,7

Angular Resolution 1 Grad step

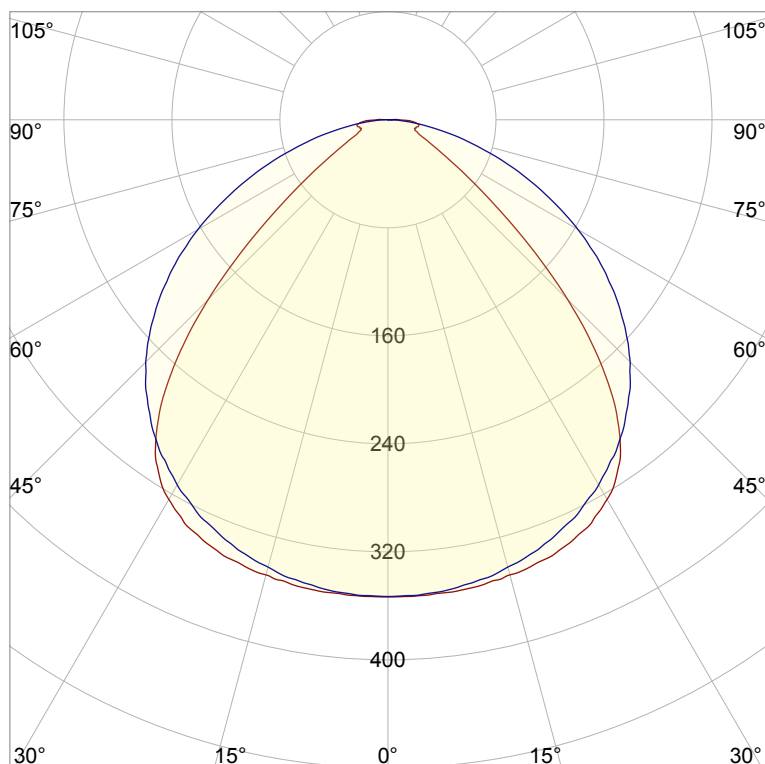
Last Calibration 20-05-2020

Pruefer: Peter Ulrich

Pruefort: Lichtlabor

Gaustrasse13

55411 Bingen am Rhein

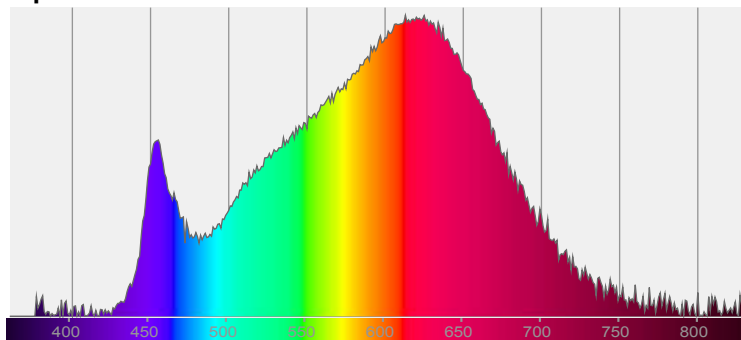


CIE 1931

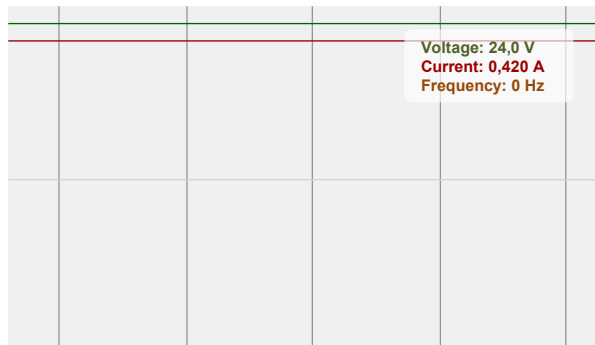
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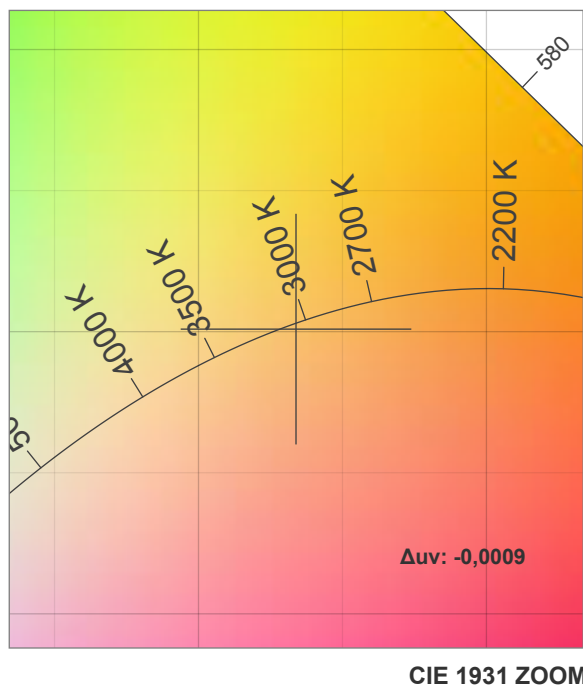
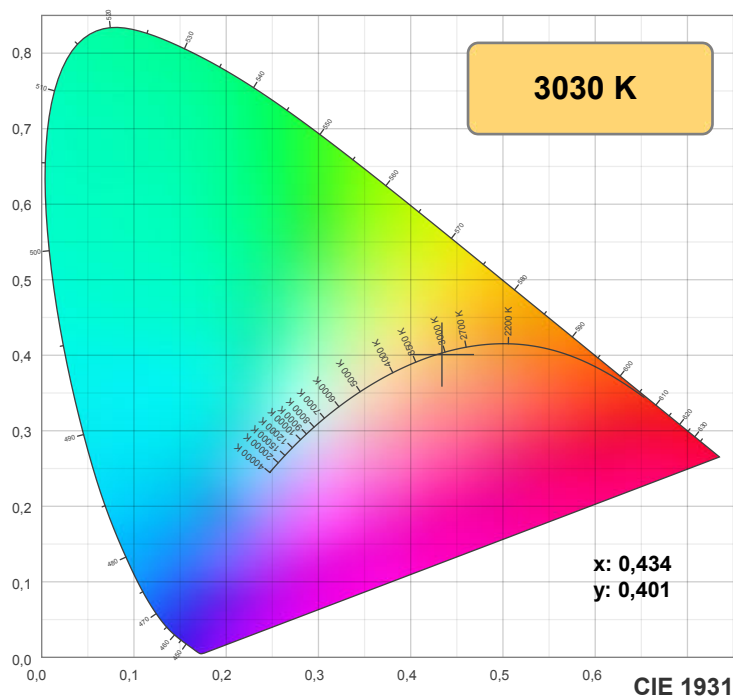
y: 0,401

Spectra

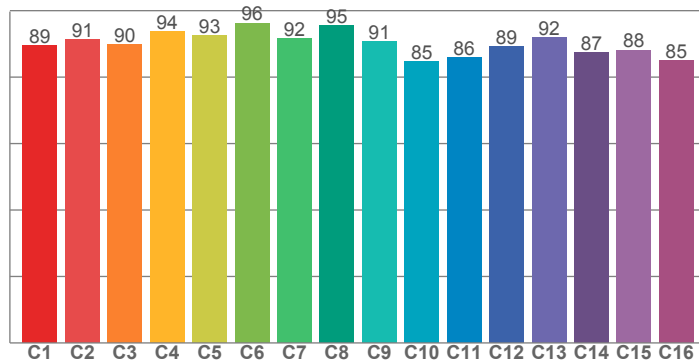


Power

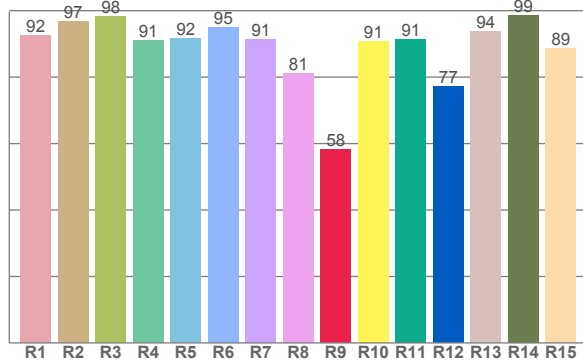




TM30: 90,2



CRI: 92,2 (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
92,4	96,6	98,2	91,2	91,7	94,9	91,3	81,1	58,2	90,6	91,3	77,2	93,7	98,7	88,7

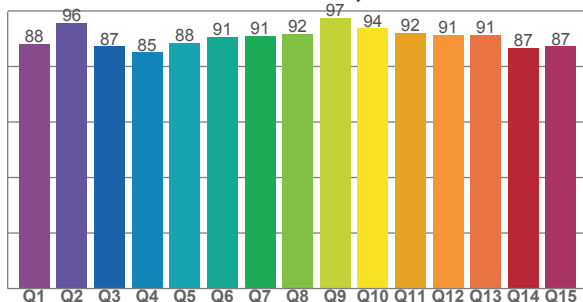
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,4	91,3	89,9	93,7	92,5	96,3	91,6	95,5	90,7	84,7	85,8	89,3	91,9	87,3	88,1	84,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88,2	95,7	87,2	85,1	88,5	90,5	90,9	91,8	97,5	93,7	92,0	91,3	91,2	86,6	87,2

CQS: 89,8



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
3030 K	92,2	58,2	90,2	98,1	89,8	0,434	0,401	0,250	0,346	-0,0009

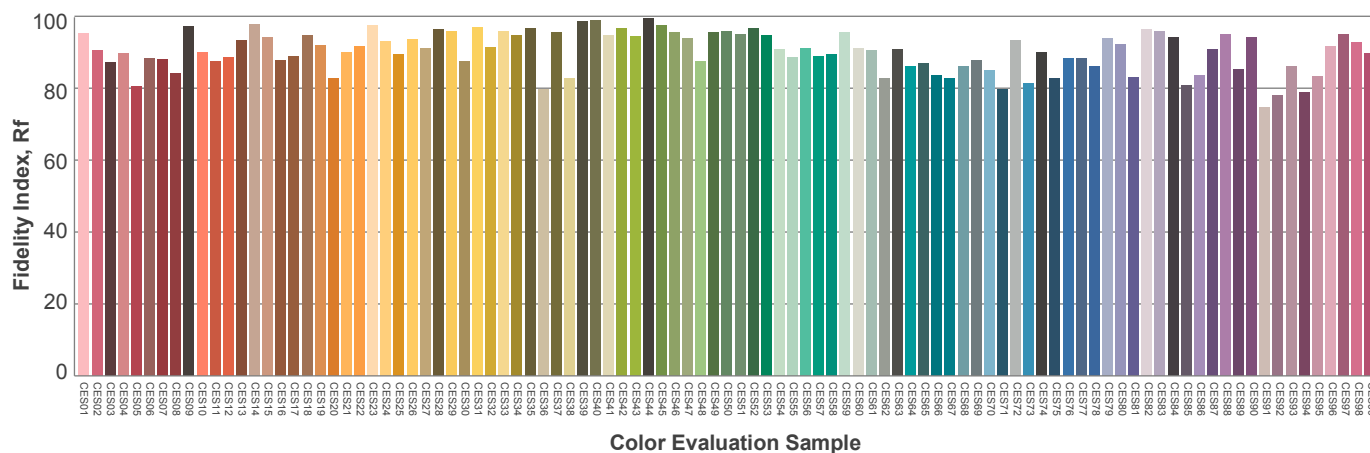
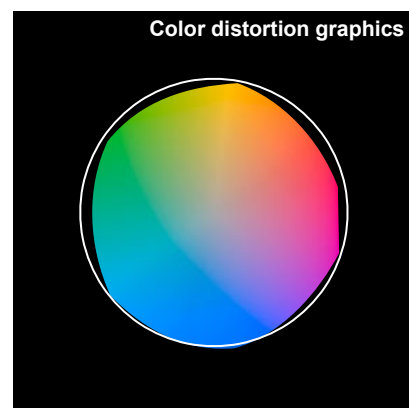
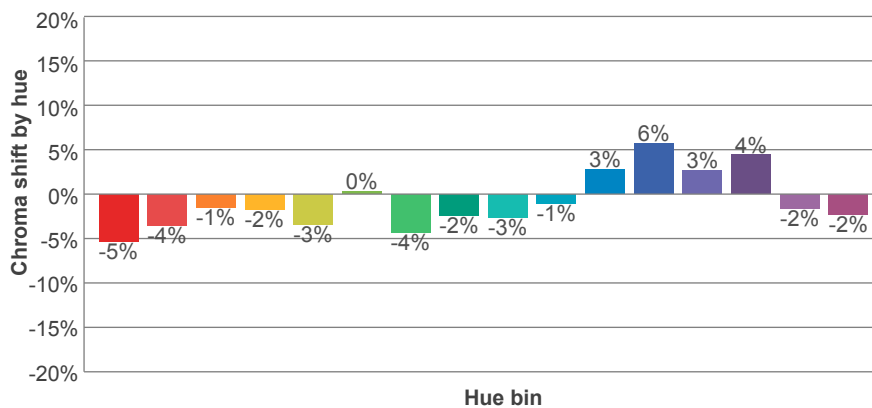
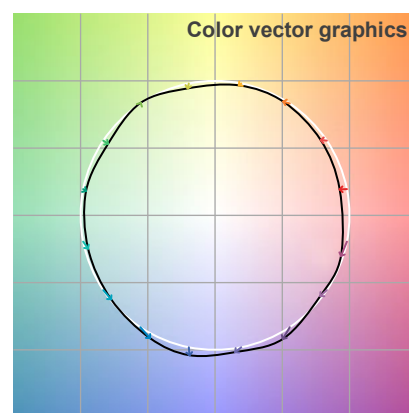
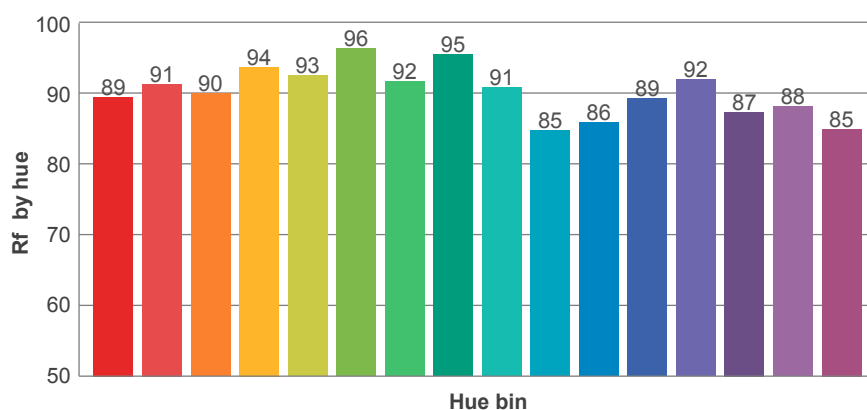
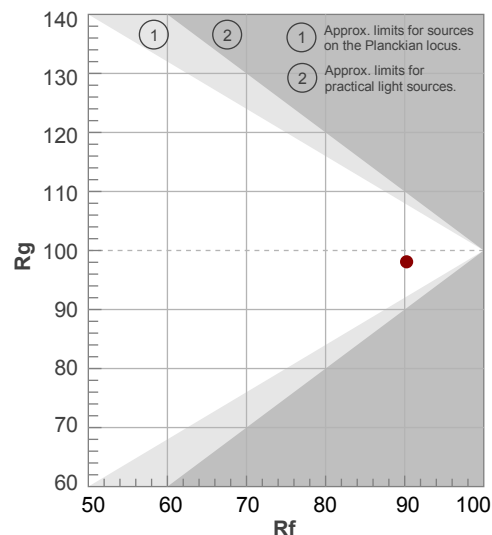
Rf 90,2

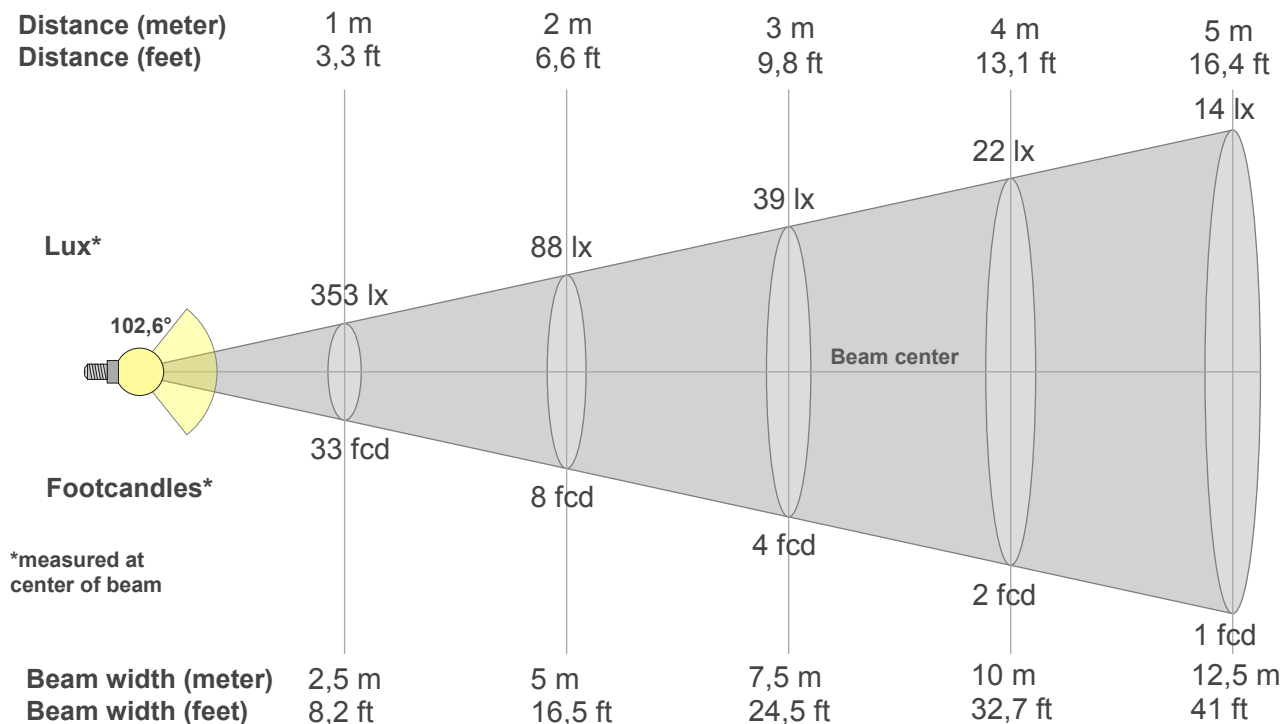
Fidelity index Rf

Rg 98,1

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	89	-5%	1%
2	91	-4%	3%
3	90	-1%	5%
4	94	-2%	2%
5	93	-3%	2%
6	96	0%	-1%
7	92	-4%	0%
8	95	-2%	1%
9	91	-3%	6%
10	85	-1%	9%
11	86	3%	10%
12	89	6%	2%
13	92	3%	-5%
14	87	4%	-9%
15	88	-2%	-6%
16	85	-2%	-11%





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
353lx	88lx	39lx	22lx	14lx	10lx	7lx	6lx	4lx	4lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx
32,8fcd	8,2fcd	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°
353	353	352	349	345	338	325	300	253	188	119	68	39	25	21	22	23	19	8	0
100%	100%	100%	99%	98%	96%	92%	85%	72%	53%	34%	19%	11%	7%	6%	6%	7%	5%	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°
353	352	349	343	335	326	312	296	276	254	226	196	162	127	92	60	33	13	1	1
100%	100%	99%	97%	95%	92%	88%	84%	78%	72%	64%	56%	46%	36%	26%	17%	9%	4%	0%	0%

Intensities in 180° c-plane

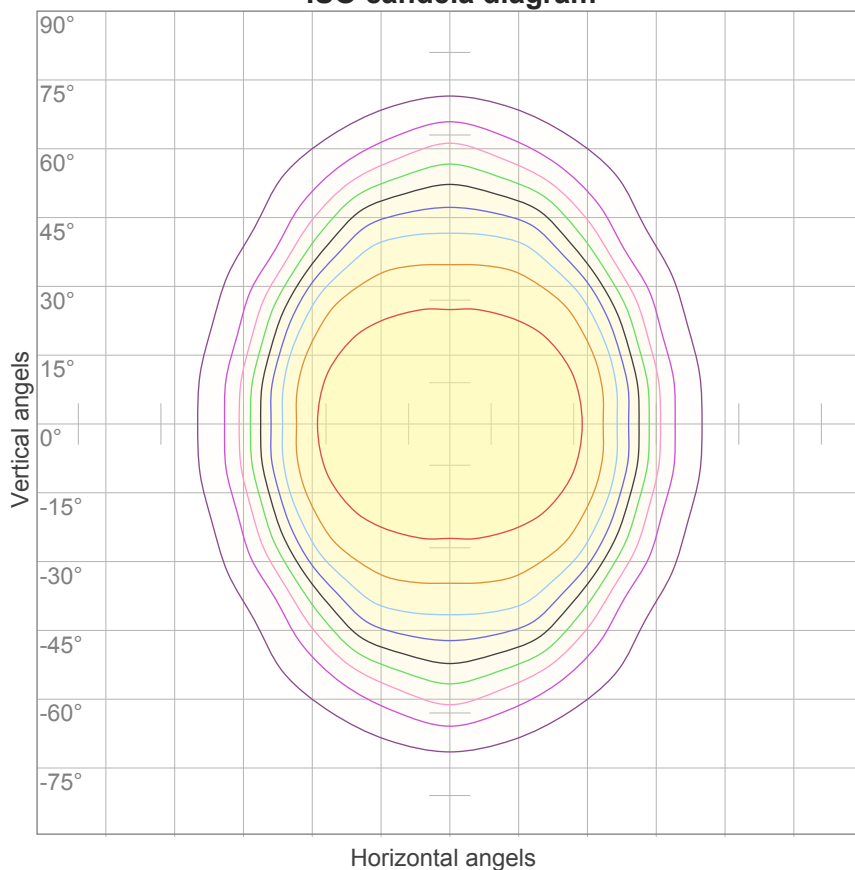
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
353	353	352	349	345	338	325	300	253	188	119	68	39	25	21	22	23	19	8	0
100%	100%	100%	99%	98%	96%	92%	85%	72%	53%	34%	19%	11%	7%	6%	6%	7%	5%	2%	0%

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°
353	352	349	343	335	326	312	296	276	254	226	196	162	127	92	60	33	13	1	1
100%	100%	99%	97%	95%	92%	88%	84%	78%	72%	64%	56%	46%	36%	26%	17%	9%	4%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
102,6°	137,7°	177,4°	85,7%	63,4%

ISO candela diagram



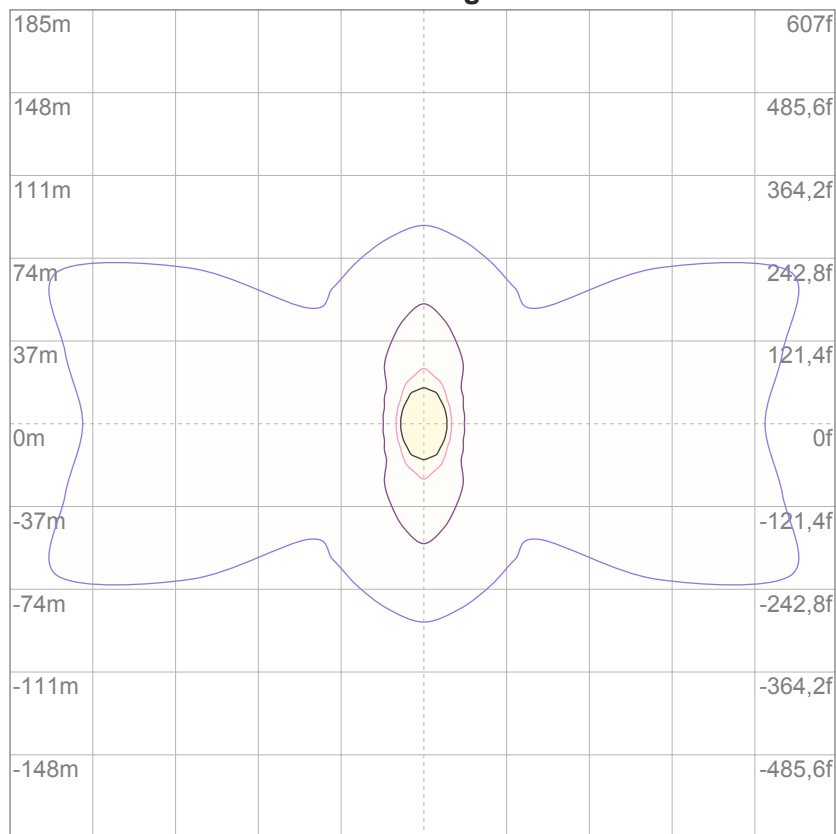
10%	35 cd
20%	71 cd
30%	106 cd
40%	141 cd
50%	177 cd
60%	212 cd
70%	247 cd
80%	282 cd
90%	318 cd

Conditions:

Number of c-planes: 16

Candela at center: 353 cd

ISO lux diagram



3%	0,106 lx
5%	0,177 lx
10%	0,353 lx
30%	1,06 lx
50%	1,77 lx

Conditions:

Number of c-planes: 16

Lux at center: 3,53 lx

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

Glare Evaluation According to UGR

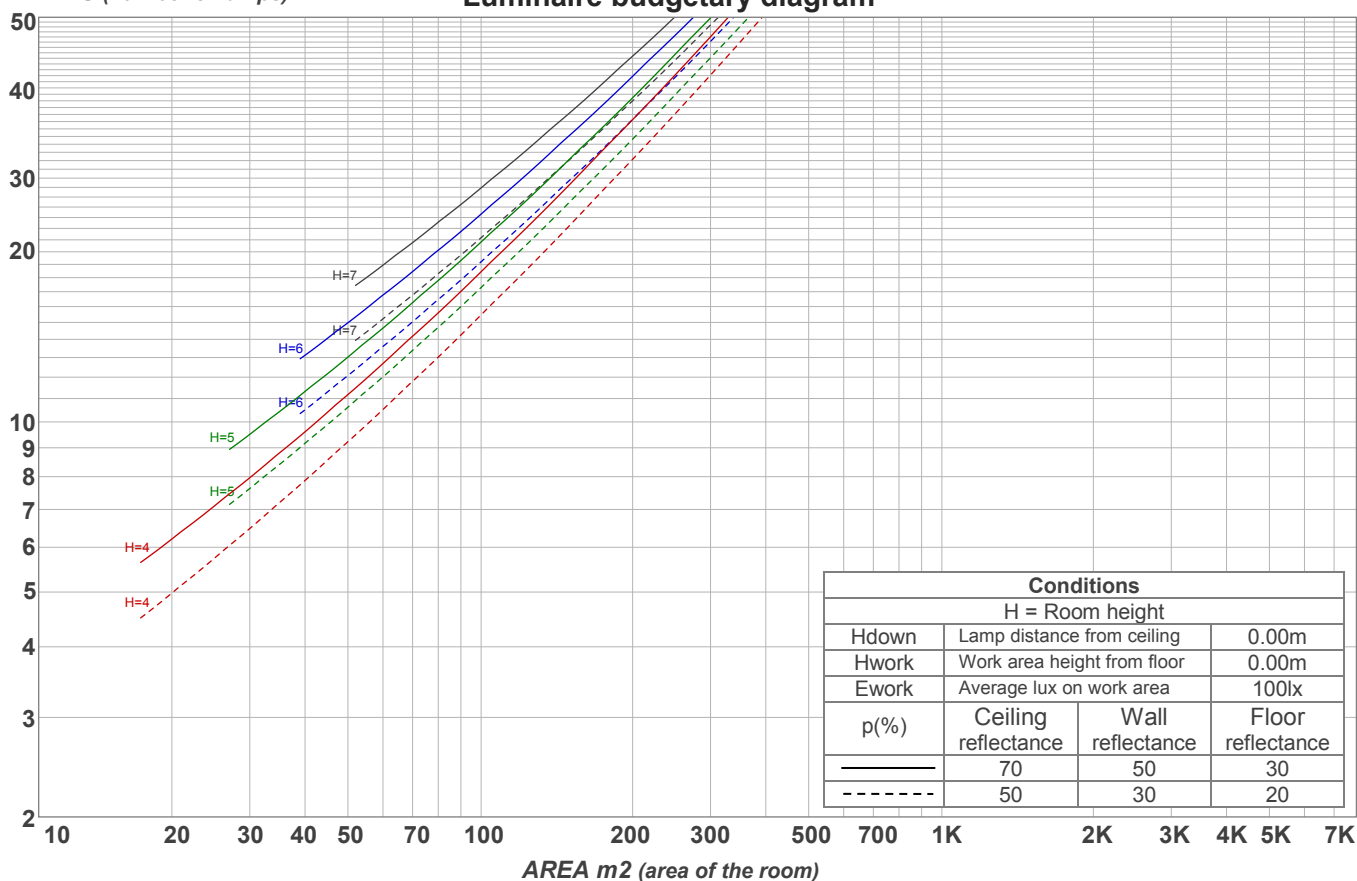
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	19,5	20,6	19,8	20,9	21,1	24,0	25,1	24,2	25,3	25,6
	3H	19,5	20,7	19,9	20,9	21,1	25,0	26,2	25,4	26,4	26,6
	4H	19,6	20,7	20,0	21,0	21,2	25,5	26,6	25,9	26,8	27,1
	6H	19,9	20,9	20,2	21,2	21,5	25,8	26,8	26,1	27,1	27,4
	8H	20,1	21,0	20,4	21,3	21,7	25,9	26,8	26,3	27,1	27,6
	12H	20,3	21,1	20,6	21,5	21,9	26,0	26,8	26,3	27,2	27,6
4H	2H	19,9	21,0	20,3	21,2	21,5	23,8	24,9	24,2	25,2	25,4
	3H	20,1	21,0	20,4	21,3	21,8	25,1	26,0	25,5	26,3	26,8
	4H	20,2	21,0	20,6	21,4	22,0	25,6	26,4	26,0	26,8	27,3
	6H	20,6	21,4	21,1	21,7	22,1	26,0	26,8	26,5	27,1	27,5
	8H	20,8	21,5	21,3	21,9	22,3	26,1	26,8	26,6	27,2	27,6
	12H	21,1	21,7	21,6	22,1	22,6	26,2	26,8	26,7	27,2	27,7
8H	4H	20,4	21,1	20,9	21,5	21,8	25,5	26,2	26,0	26,6	27,0
	6H	20,9	21,4	21,4	21,9	22,4	26,0	26,5	26,5	27,0	27,5
	8H	21,3	21,8	21,8	22,3	22,9	26,2	26,6	26,7	27,1	27,8
	12H	21,7	22,1	22,3	22,6	23,2	26,3	26,7	26,9	27,2	27,8
12H	4H	20,4	21,0	20,9	21,4	21,9	25,4	26,0	25,9	26,5	26,9
	6H	21,0	21,5	21,5	22,0	22,6	26,0	26,4	26,5	27,0	27,6
	8H	21,4	21,8	22,0	22,3	22,9	26,2	26,6	26,7	27,1	27,7
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,6 / -0,9					0,1 / -0,2				
S = 1.5H		1,4 / -1,6					0,7 / -1,0				
S = 2.0H		2,5 / -2,1					1,6 / -2,1				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 892 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	100	100	100	98
1	109	105	101	98	107	103	99	96	98	95	93	94	92	90	90	88	87	84
2	101	93	87	82	98	91	86	81	87	83	79	84	80	77	81	78	75	73
3	93	83	76	70	90	81	75	69	78	72	68	75	70	66	73	68	65	63
4	85	74	66	60	83	73	65	60	70	64	59	68	62	58	65	61	57	55
5	79	67	59	53	77	66	58	52	64	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	47	41	53	46	41	51	45	40	50	44	40	38
8	63	51	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	39	33	58	46	38	33	45	38	33	43	37	33	42	37	32	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	39	34	30	28

LAMPS (number of lamps)

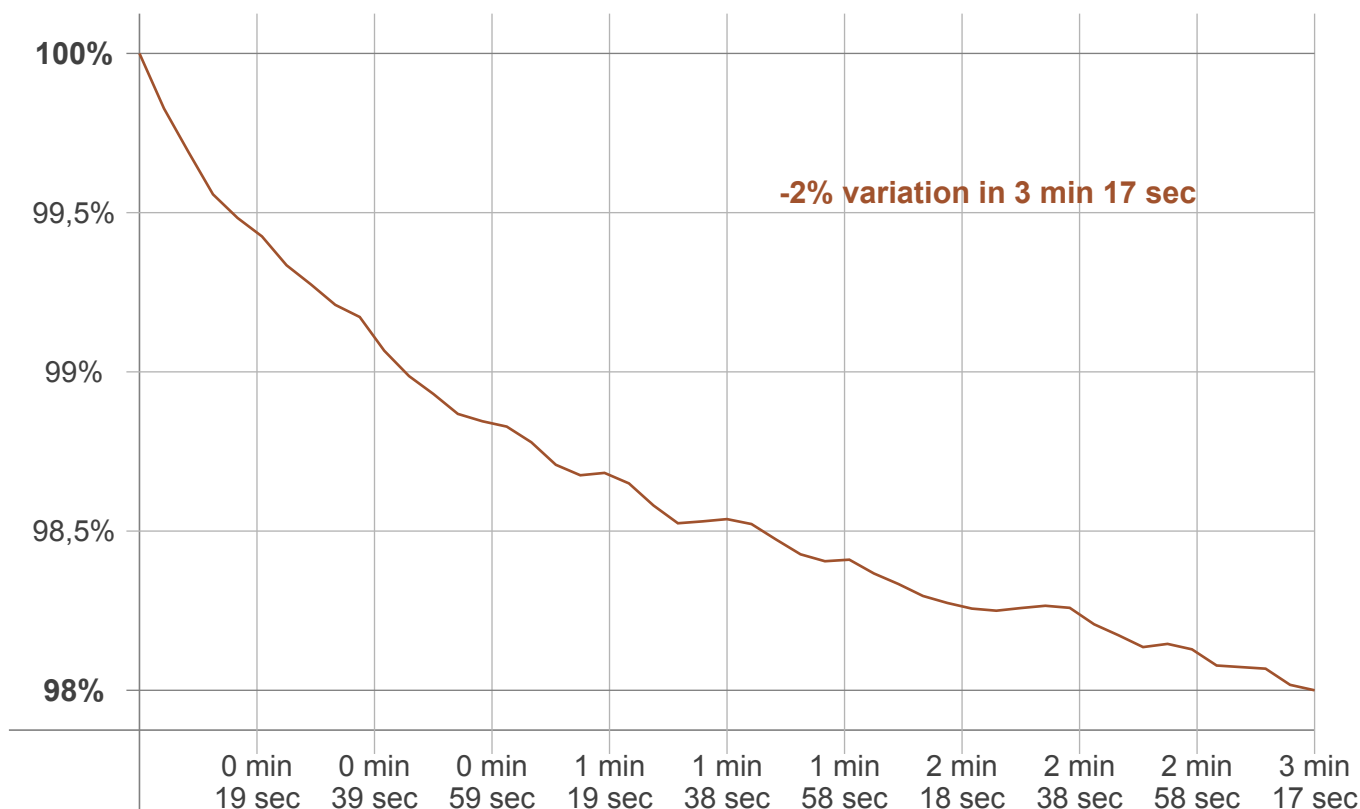
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
33,5 lm	97,7 lm	153 lm	188 lm	177 lm	116 lm	60,7 lm	32,1 lm	17,1 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
4,75 lm	2,79 lm	2,46 lm	2,22 lm	1,84 lm	1,44 lm	1,06 lm	0,650 lm	0,219 lm

Warmup curve



Warmup result

Warmup time:	Not completed
Warmup variation	-2,0%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
3033 K	-3 K	3030 K

Output change

Output start	Output change	Output end
907 lm	-15 lm	892 lm