

Light efficiency:

89 Lumen/Watt

Light quality:

CRI: 92,9

Color temperature:

2673 K

Output: 976 lm

Peak: 807 cd

Power: 11,0 W

PF: 1,0



Product name:

Pegasus-4-0508-927-L3F

Item number:

FLNP/L/09D0508/927/L3F

Date and time:

08.04.2021 16:24:27

Description:

Rank: F9-8GA

Toleranzen:

Lumen +/-4%

Candela +/-2,5%

Colour Temp +/-35 K

CRI +/-0,7

Angular Resolution 1 Grad step

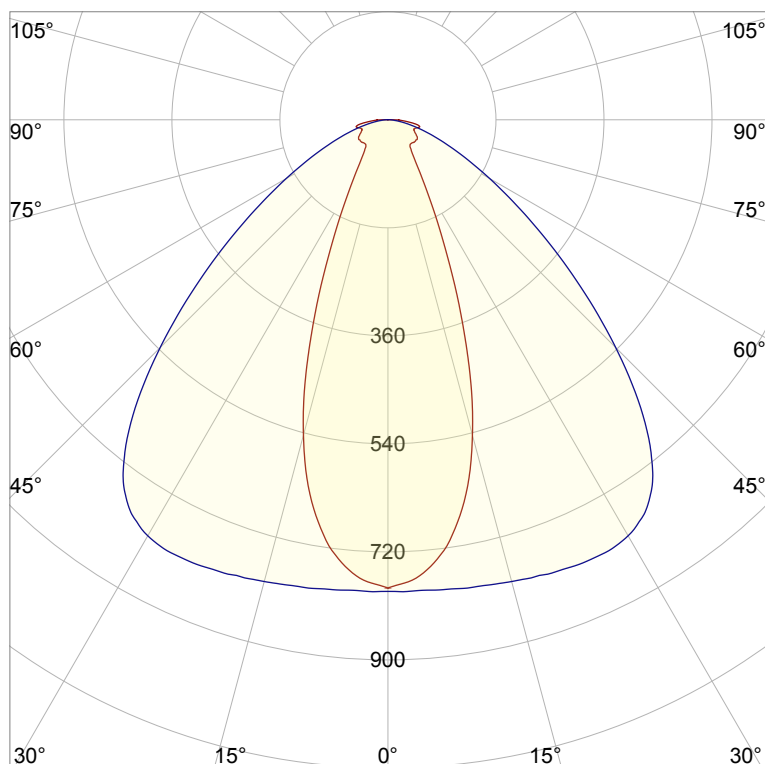
Last Calibration 20-05-2020

Pruefer: Peter Ulrich

Pruefort: Lichtlabor

Gaustrasse 13

55411 Bingen am Rhein

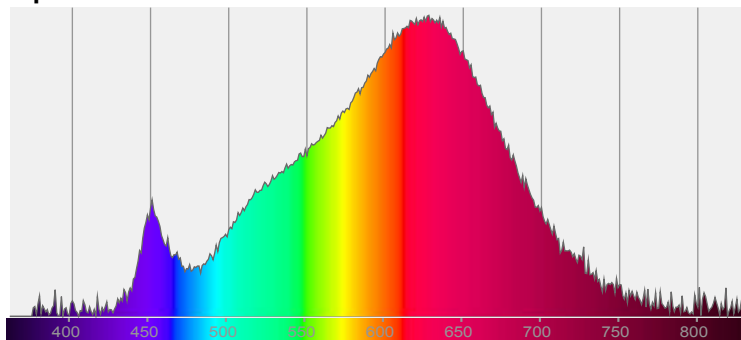


CIE 1931

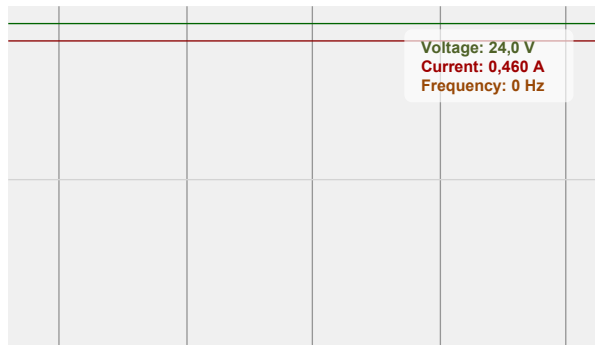
x: 0,463

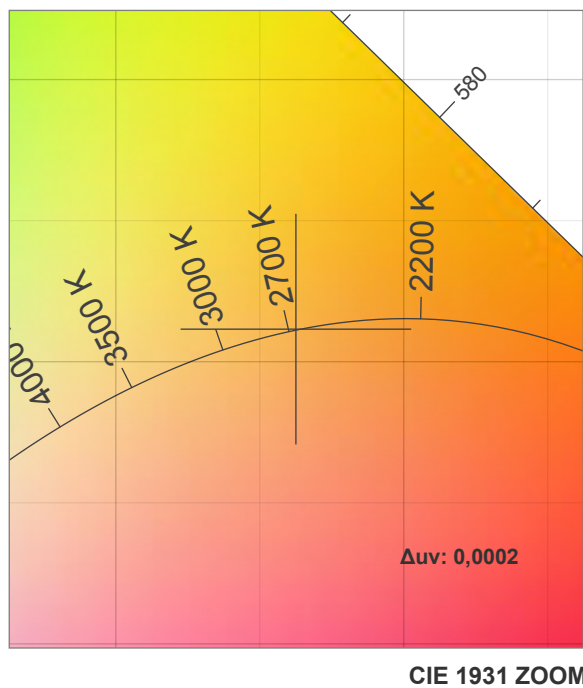
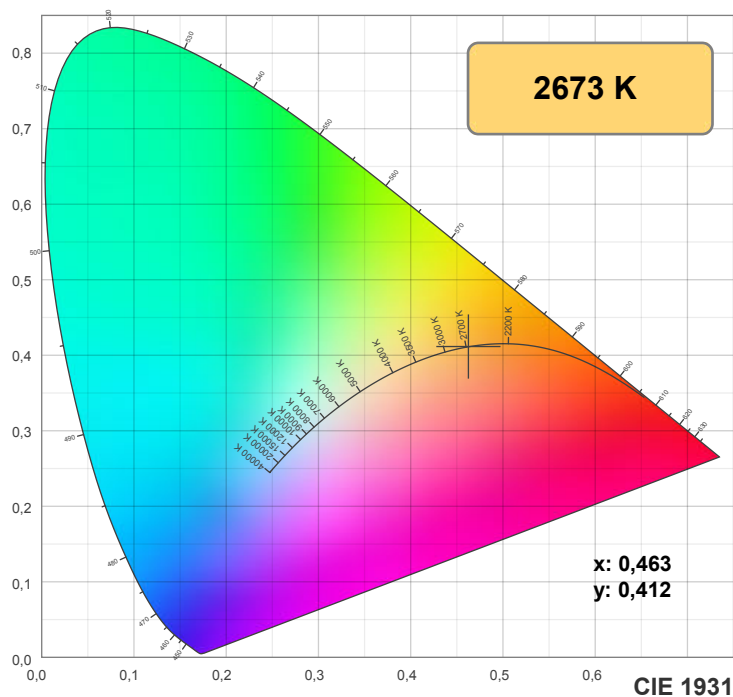
y: 0,412

Spectra

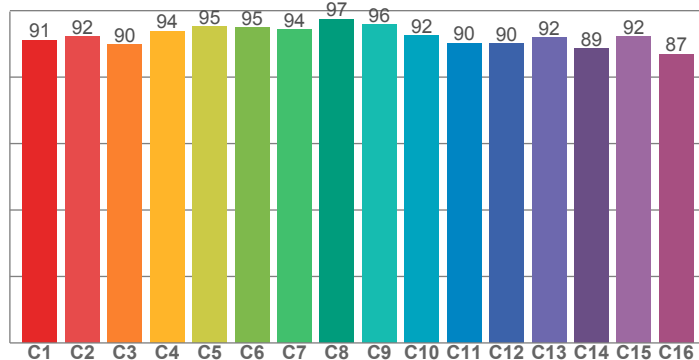


Power

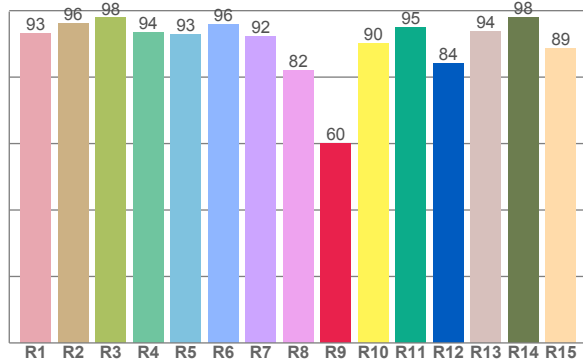




TM30: 92,3



CRI: 92,9 (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
93,0	96,1	97,8	93,6	92,7	95,8	92,2	82,0	60,2	90,1	94,8	84,2	93,8	97,9	88,6

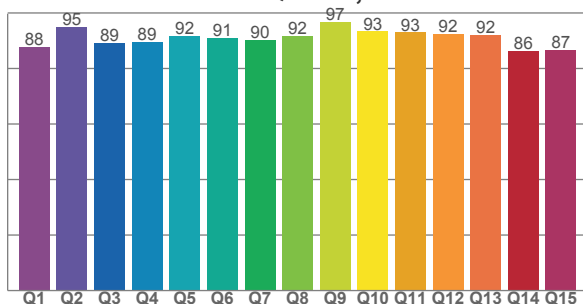
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,2	92,2	89,7	93,9	95,3	94,9	94,4	97,5	95,7	92,5	90,2	90,2	91,9	88,6	92,2	86,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87,8	95,0	89,1	89,4	91,6	91,0	90,2	91,7	96,7	93,3	93,0	92,4	92,0	86,5	86,7

CQS: 90,5



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
2673 K	92,9	60,2	92,3	99,9	90,5	0,463	0,412	0,264	0,352	0,0002

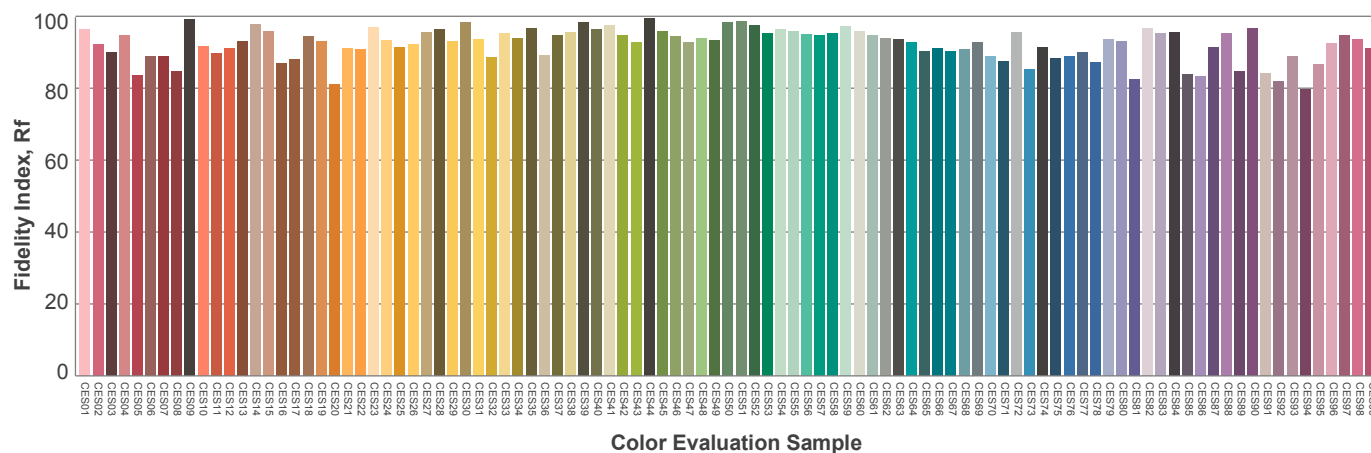
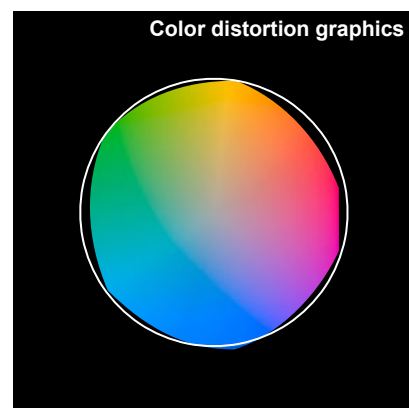
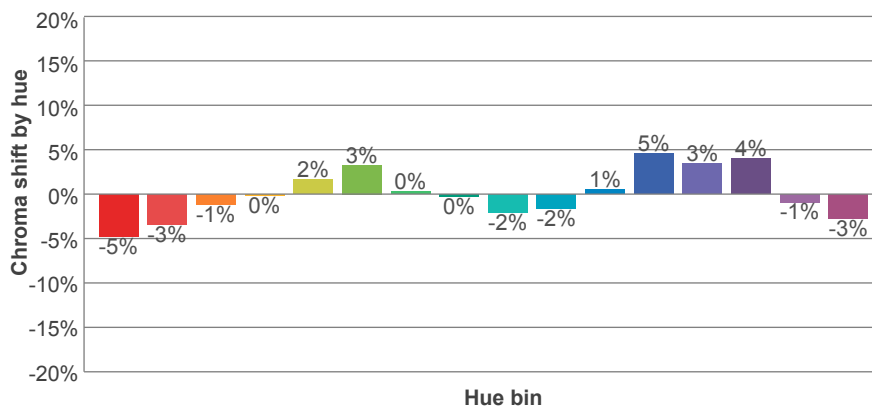
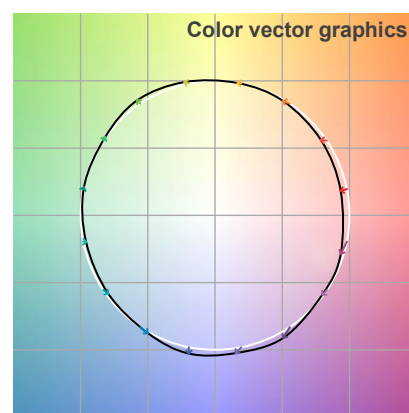
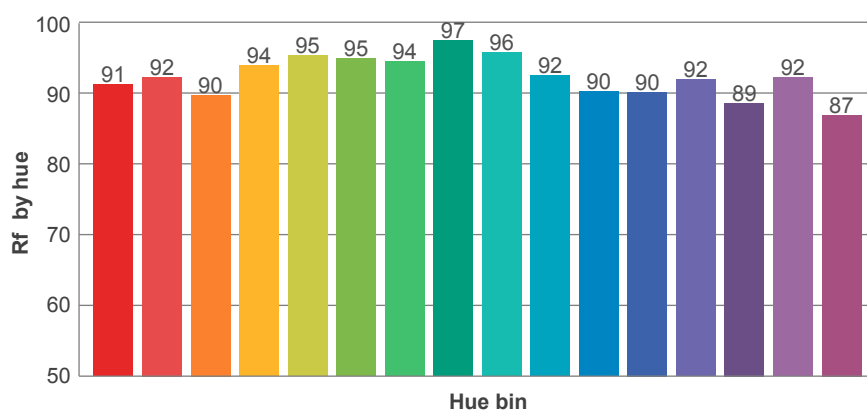
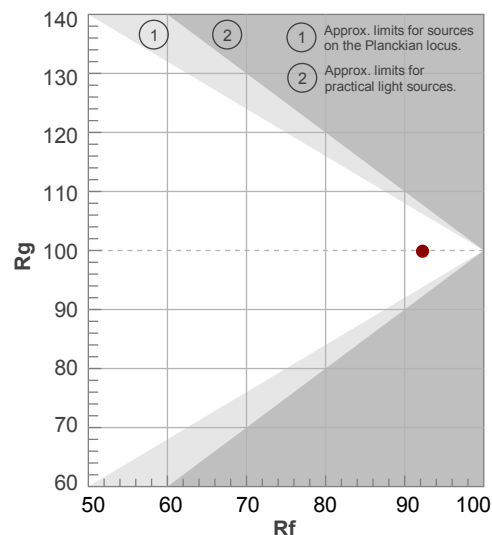
Rf 92,3

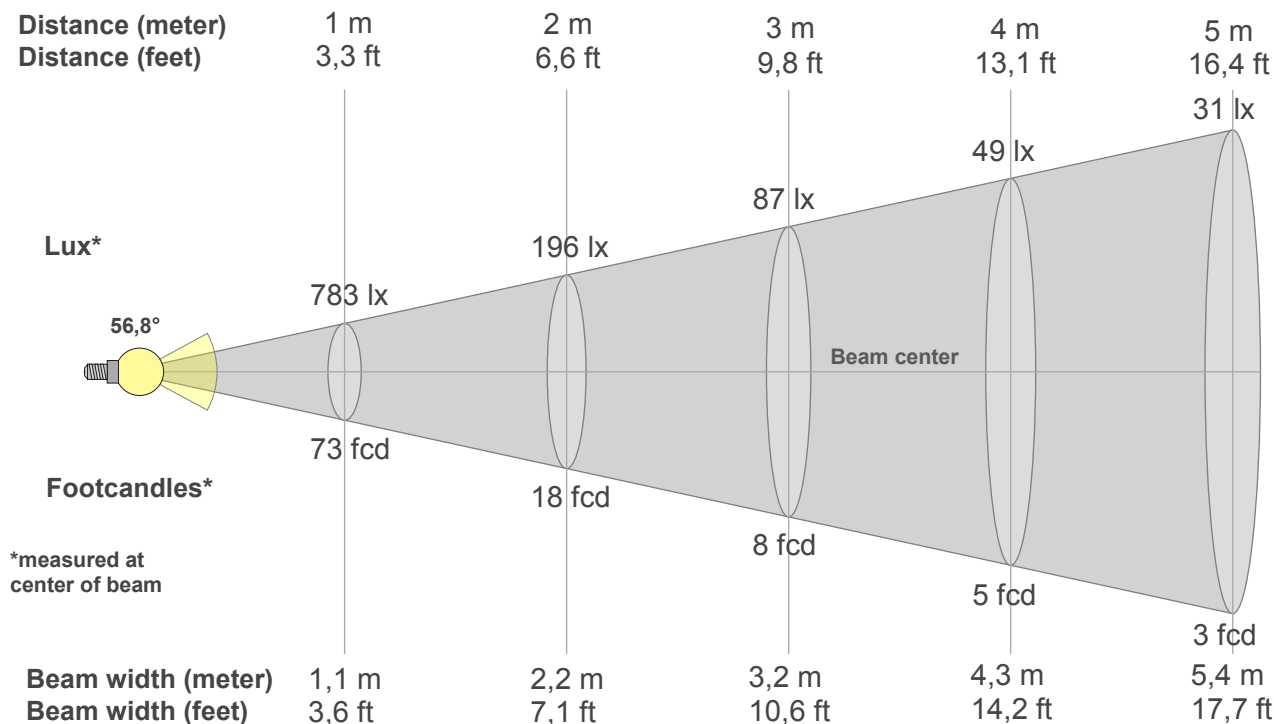
Fidelity index Rf

Rg 99,9

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	92	-3%	3%
3	90	-1%	5%
4	94	0%	3%
5	95	2%	3%
6	95	3%	1%
7	94	0%	-3%
8	97	0%	-1%
9	96	-2%	1%
10	92	-2%	4%
11	90	1%	7%
12	90	5%	1%
13	92	3%	-5%
14	89	4%	-8%
15	92	-1%	-5%
16	87	-3%	-10%





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
783lx	196lx	87lx	49lx	31lx	22lx	16lx	12lx	10lx	8lx	6lx	5lx	5lx	4lx	3lx	3lx	3lx	2lx	2lx	2lx
72,7fcd	18,2fcd	8,1fcd	4,5fcd	2,9fcd	2fcd	1,5fcd	1,1fcd	0,9fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
783	773	761	741	715	676	631	575	511	440	366	297	235	186	146	117	95	80	69	62
100%	99%	97%	95%	91%	86%	81%	73%	65%	56%	47%	38%	30%	24%	19%	15%	12%	10%	9%	8%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
783	787	786	788	789	792	793	795	798	800	803	805	807	807	805	800	790	774	750	713
100%	100%	100%	101%	101%	101%	101%	102%	102%	102%	103%	103%	103%	103%	103%	102%	101%	99%	96%	91%

Intensities in 180° c-plane

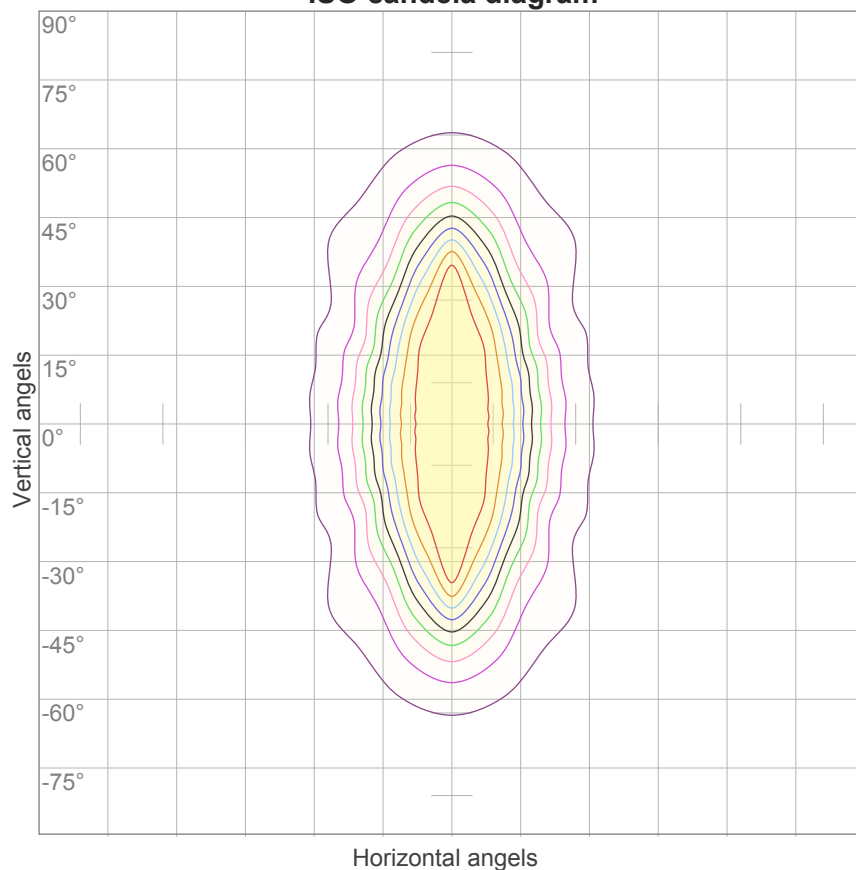
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
783	773	761	741	715	676	631	575	511	440	366	297	235	186	146	117	95	80	69	62
100%	99%	97%	95%	91%	86%	81%	73%	65%	56%	47%	38%	30%	24%	19%	15%	12%	10%	9%	8%

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
783	787	786	788	789	792	793	795	798	800	803	805	807	807	805	800	790	774	750	713
100%	100%	100%	101%	101%	101%	101%	102%	102%	102%	103%	103%	103%	103%	103%	102%	101%	99%	96%	91%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
56,8°	94,2°	171,8°	83,6%	69,5%

ISO candela diagram



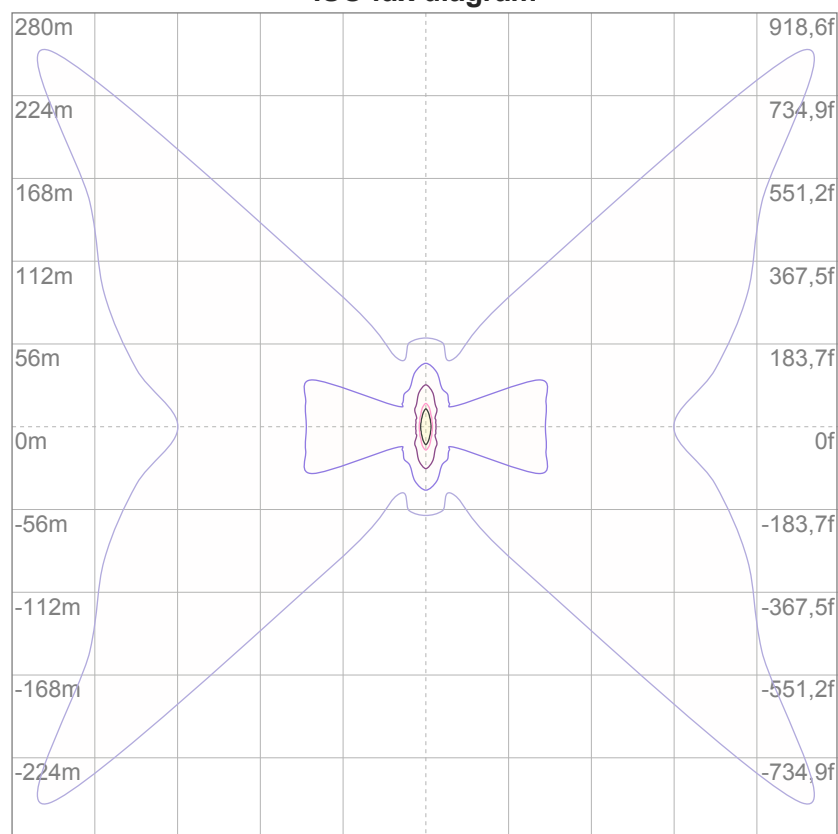
10%	78 cd
20%	157 cd
30%	235 cd
40%	313 cd
50%	391 cd
60%	470 cd
70%	548 cd
80%	626 cd
90%	705 cd

Conditions:

Number of c-planes: 16

Candela at center: 783 cd

ISO lux diagram



3%	0,235 lx
5%	0,391 lx
10%	0,783 lx
30%	2,35 lx
50%	3,91 lx

Conditions:

Number of c-planes: 16

Lux at center: 7,83 lx

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

Glare Evaluation According to UGR

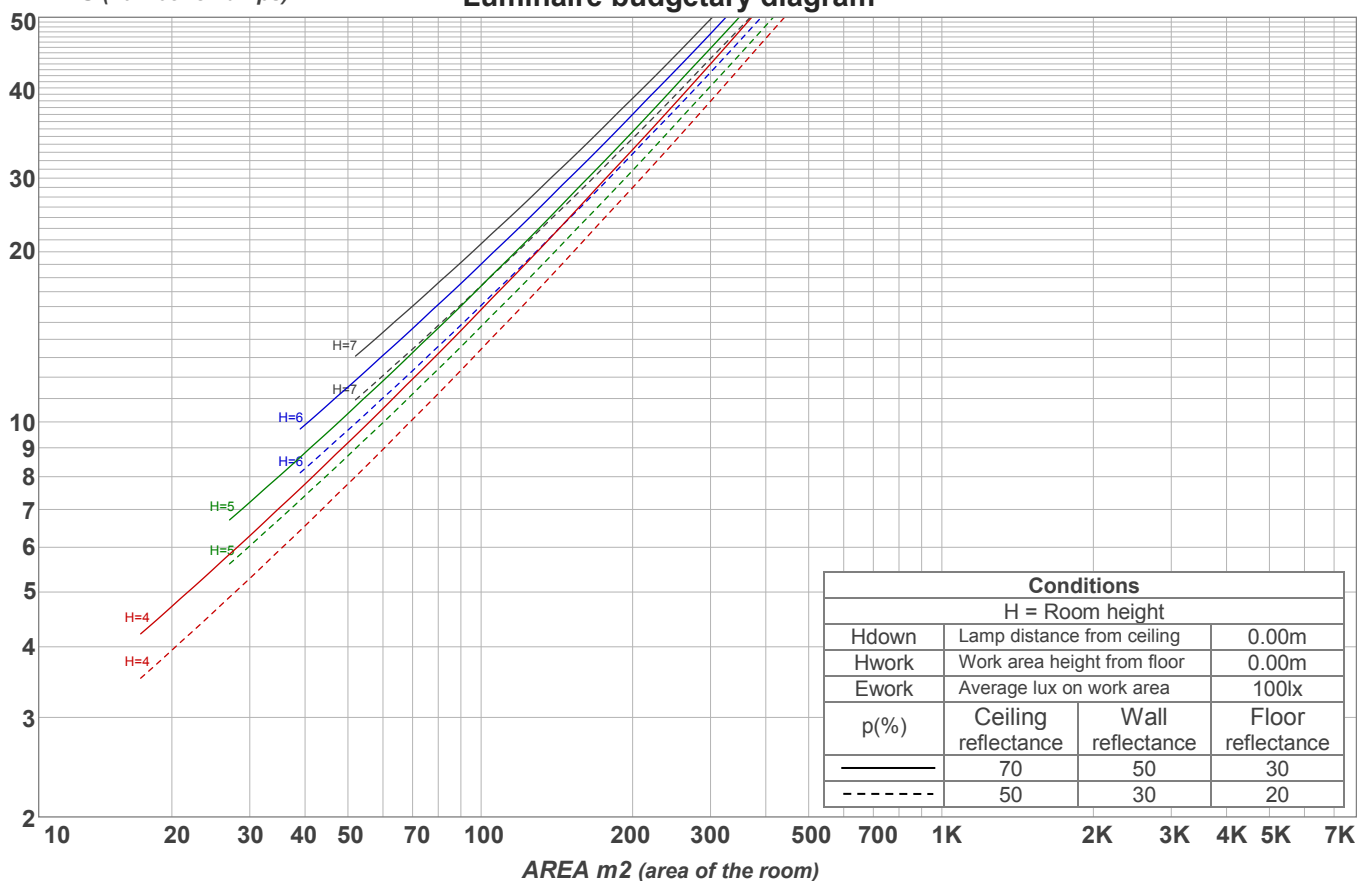
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	14,6	15,6	14,8	15,8	16,0	23,7	24,7	23,9	24,9	25,1
	3H	16,6	17,6	17,0	17,9	18,1	24,4	25,4	24,8	25,7	25,9
	4H	17,9	18,9	18,3	19,2	19,4	24,7	25,7	25,1	25,9	26,2
	6H	19,6	20,5	19,9	20,8	21,2	25,0	25,8	25,3	26,1	26,5
	8H	20,2	21,1	20,5	21,4	21,8	25,0	25,8	25,3	26,2	26,6
	12H	20,6	21,4	20,9	21,7	22,2	25,0	25,8	25,4	26,2	26,6
4H	2H	15,4	16,4	15,8	16,7	16,9	23,4	24,4	23,8	24,7	24,9
	3H	17,6	18,5	18,0	18,8	19,2	24,4	25,2	24,7	25,5	26,0
	4H	19,1	19,8	19,5	20,3	20,8	24,7	25,4	25,1	25,8	26,4
	6H	20,9	21,7	21,4	22,0	22,4	24,9	25,7	25,4	26,0	26,4
	8H	21,6	22,3	22,1	22,7	23,0	25,0	25,7	25,5	26,1	26,5
	12H	22,0	22,6	22,5	23,0	23,5	25,1	25,7	25,6	26,1	26,5
8H	4H	19,5	20,2	20,0	20,6	20,9	24,6	25,3	25,1	25,7	26,1
	6H	21,6	22,1	22,1	22,6	23,1	25,0	25,5	25,5	26,0	26,5
	8H	22,5	22,9	23,0	23,5	24,1	25,2	25,6	25,7	26,2	26,8
	12H	23,1	23,5	23,7	24,0	24,6	25,3	25,7	25,9	26,2	26,8
12H	4H	19,5	20,1	20,0	20,5	21,0	24,6	25,2	25,1	25,6	26,1
	6H	21,8	22,2	22,3	22,7	23,4	25,1	25,5	25,6	26,0	26,7
	8H	22,7	23,1	23,3	23,6	24,2	25,3	25,6	25,8	26,1	26,7
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,1					1,1 / -1,1				
S = 1.5H		0,1 / -0,1					2,6 / -2,2				
S = 2.0H		0,2 / -0,2					3,9 / -3,1				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 976 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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	109	105	102	98	106	103	99	96	98	95	93	93	91	89	89	88	86	84
2	102	95	89	84	99	92	87	83	88	84	80	85	81	78	81	78	76	74
3	94	86	79	73	92	84	78	73	81	75	71	77	73	69	75	71	68	66
4	88	78	71	65	86	77	70	64	74	68	63	71	66	62	69	64	61	59
5	82	72	64	58	80	70	63	58	68	62	57	66	60	56	64	59	55	53
6	77	66	58	53	75	65	58	53	63	57	52	61	55	51	59	54	51	49
7	73	61	54	48	71	60	53	48	59	52	48	57	51	47	55	50	47	45
8	69	57	50	45	67	56	49	44	55	48	44	53	48	44	52	47	43	41
9	65	53	46	41	63	53	46	41	51	45	41	50	44	40	49	44	40	38
10	61	50	43	38	60	49	43	38	48	42	38	47	42	38	46	41	37	36

LAMPS (number of lamps)

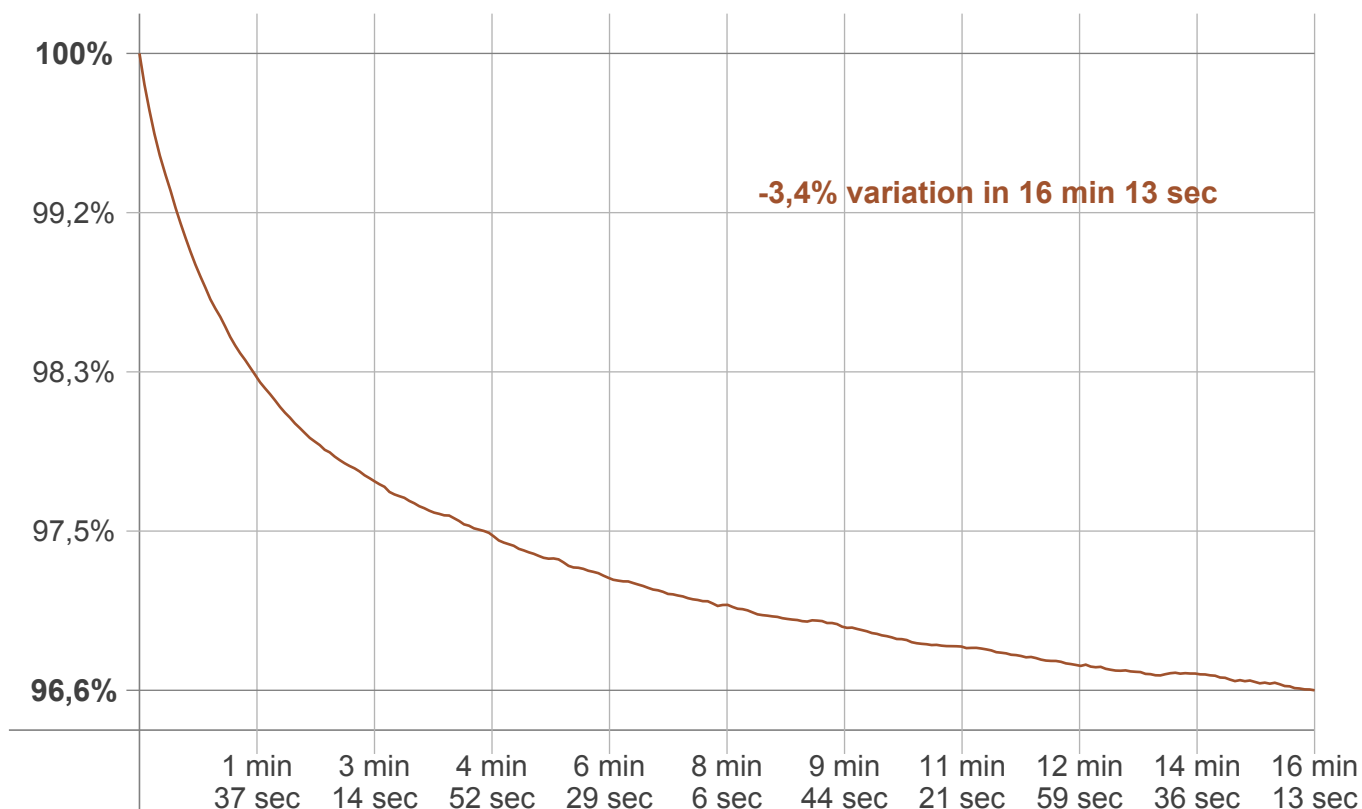
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
72,4 lm	184 lm	200 lm	159 lm	116 lm	84,0 lm	57,9 lm	41,6 lm	25,9 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
8,17 lm	7,21 lm	5,58 lm	4,81 lm	3,42 lm	2,38 lm	1,76 lm	1,08 lm	0,362 lm

Warmup curve



Warmup result

Warmup time:	16 min 13 sec
Warmup variation	-3,4%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2678 K	-5 K	2673 K

Output change

Output start	Output change	Output end
1005 lm	-29 lm	976 lm