

Light efficiency:

84 Lumen/Watt

Light quality:

CRI: 92,9

Color temperature:

2675 K

Output: 930 lm

Peak: 957 cd

Power: 11,0 W

PF: 1,0



Product name:

Pegasus-4-0508-927-LAF-2

Item number:

FLNP/L/09D0508/927/LAF-2

Date and time:

09.04.2021 11:27:03

Description:

Rank: F9-8GA

Toleranzen:

Lumen +/-4%

Candela +/-2,5%

Colour Temp +/-35 K

CRI +/-0,7

Angular Resolution 1 Grad step

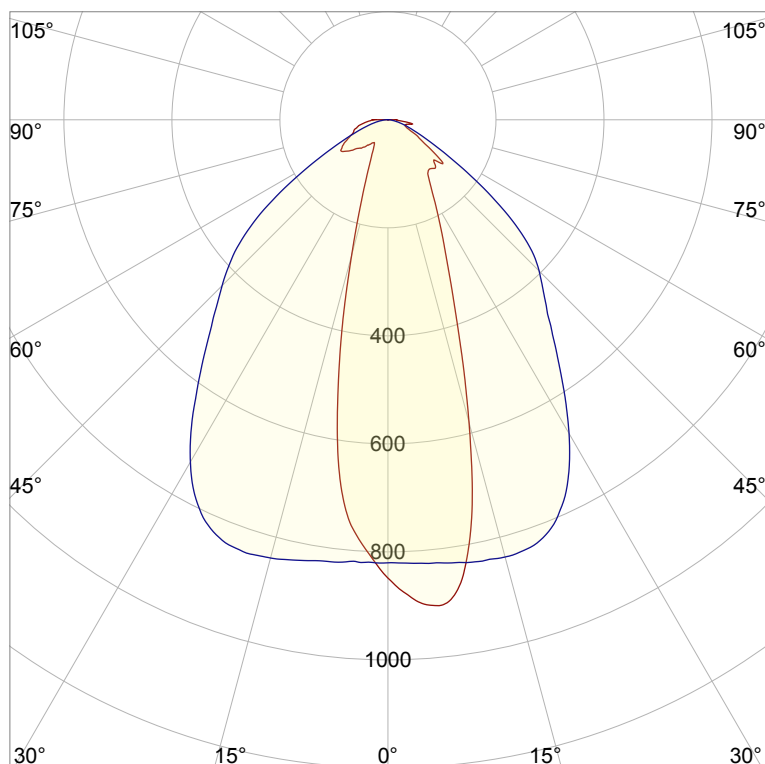
Last Calibration 20-05-2020

Pruefer: Peter Ulrich

Pruefort: Lichtlabor

Gaustrasse 13

55411 Bingen am Rhein

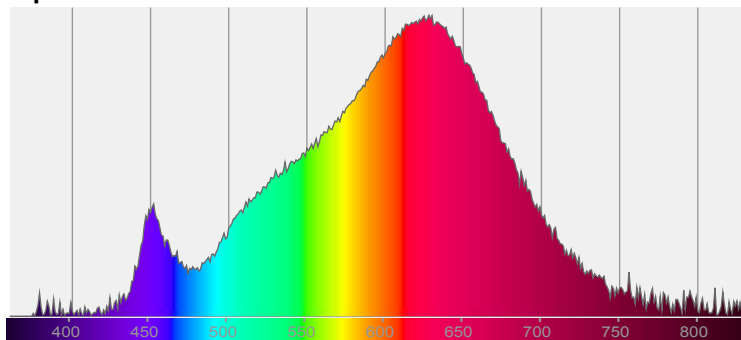


CIE 1931

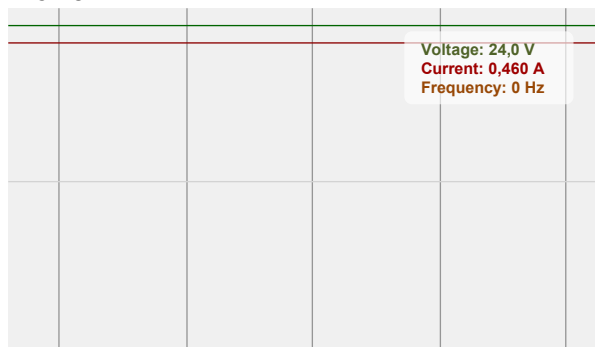
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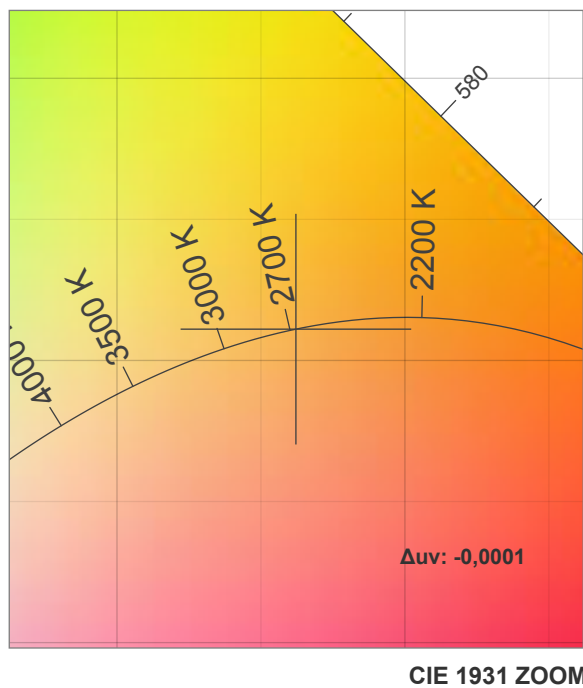
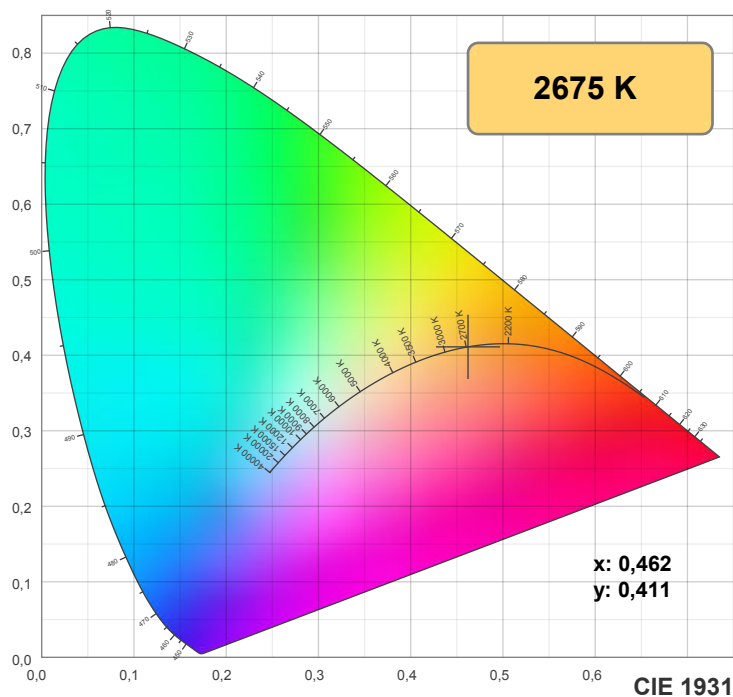
y: 0,411

Spectra

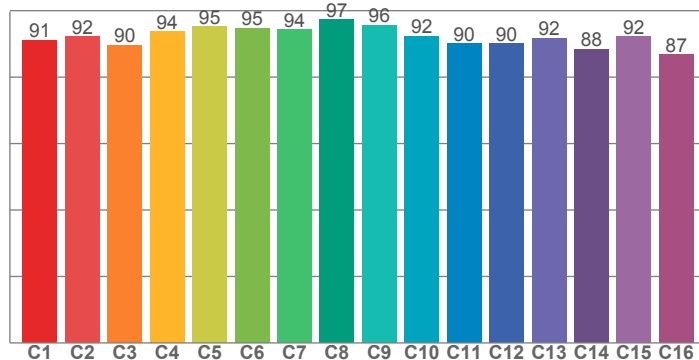


Power

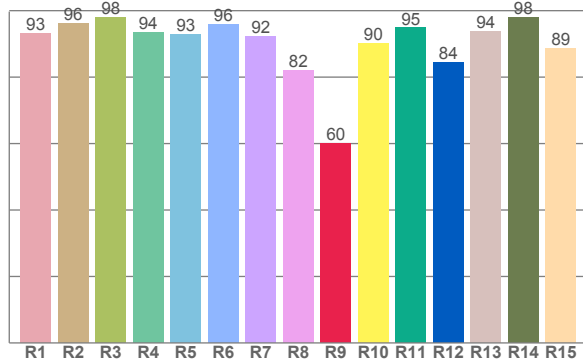




TM30: 92,2



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
93,1	96,1	97,9	93,5	92,8	95,9	92,1	81,9	60,0	90,2	94,8	84,3	93,9	98,0	88,6

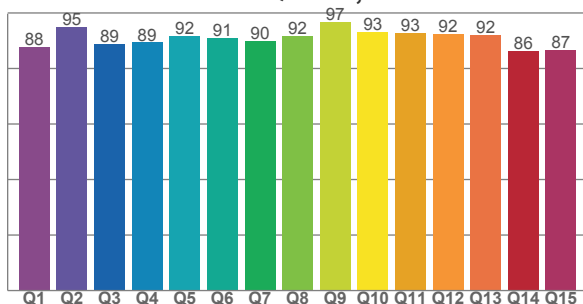
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,2	92,2	89,6	93,8	95,3	94,8	94,4	97,4	95,7	92,4	90,1	90,0	91,8	88,4	92,2	86,7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87,7	95,0	89,0	89,4	91,6	91,0	90,1	91,6	96,7	93,3	92,9	92,3	91,9	86,4	86,7

CQS: 90,4



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
2675 K	92,9	60,0	92,2	100,0	90,4	0,462	0,411	0,264	0,352	-0,0001

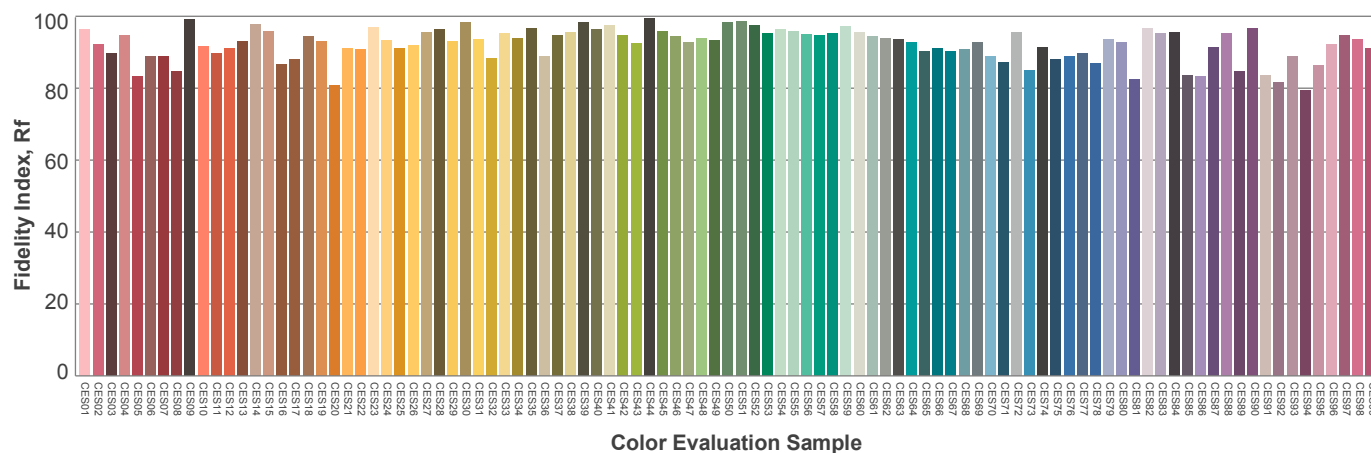
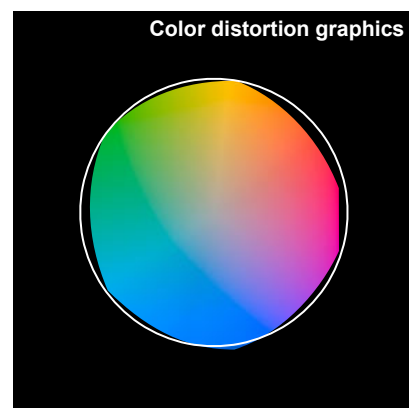
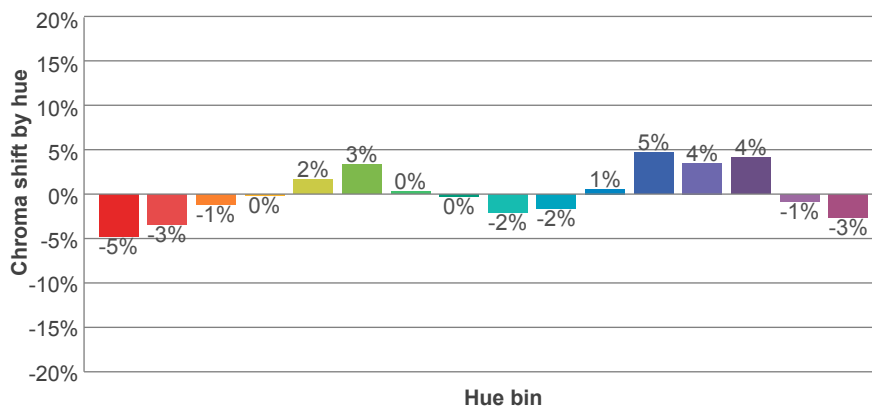
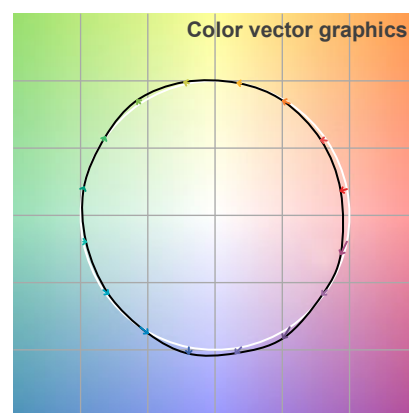
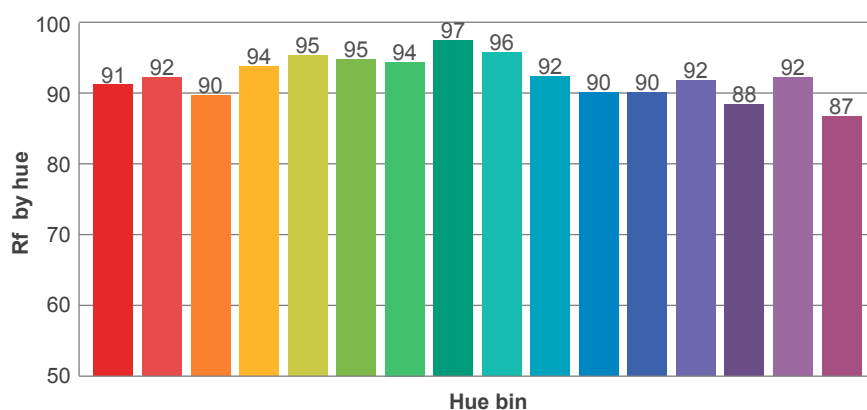
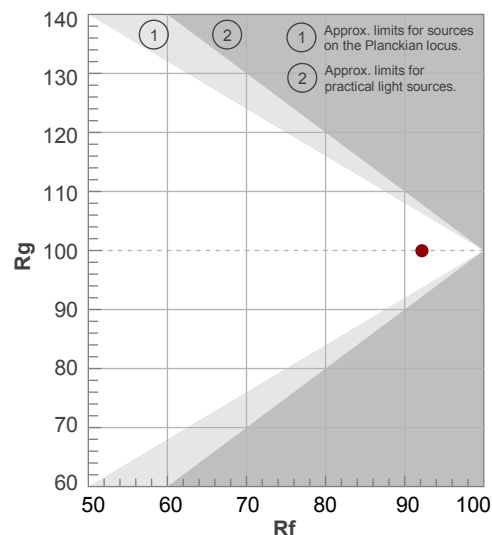
Rf 92,2

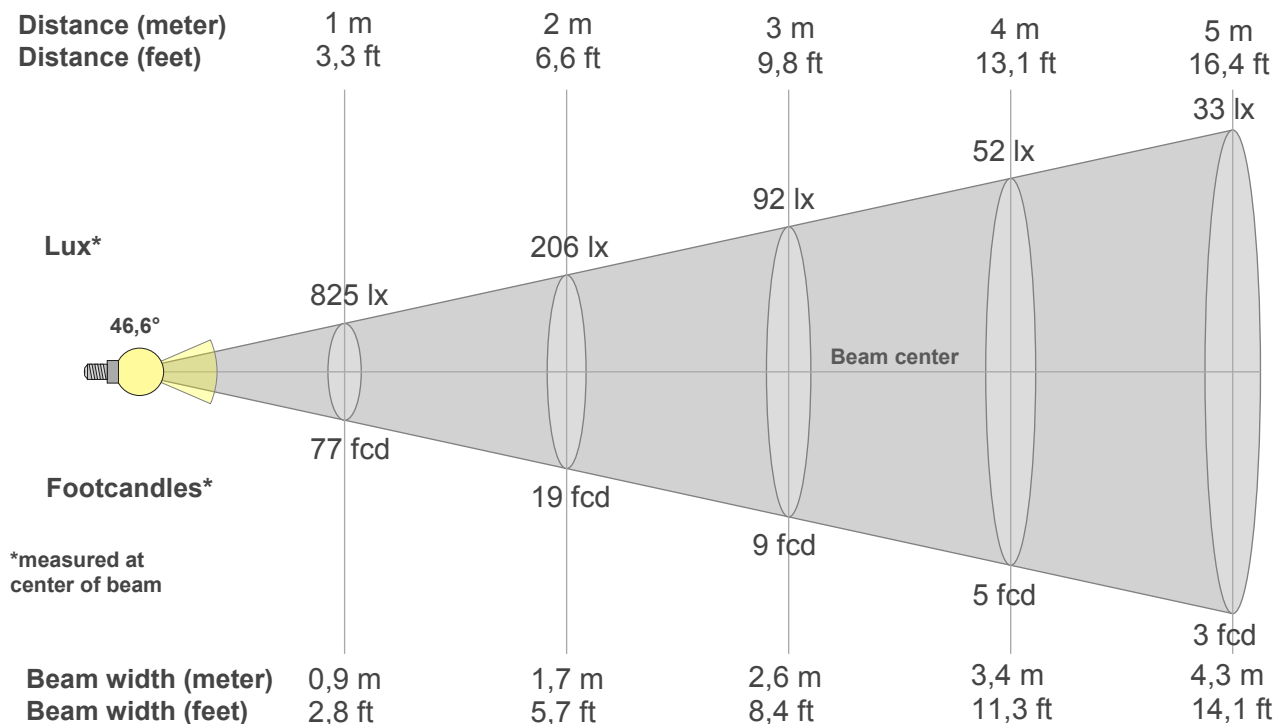
Fidelity index Rf

Rg 100,0

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	4%	-5%
14	88	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
825lx	206lx	92lx	52lx	33lx	23lx	17lx	13lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx	2lx
76,6fcd	19,2fcd	8,5fcd	4,8fcd	3,1fcd	2,1fcd	1,6fcd	1,2fcd	0,9fcd	0,8fcd	0,6fcd	0,5fcd	0,5fcd	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°
825	876	897	904	887	832	747	635	526	431	356	299	257	223	195	172	153	138	126	121
100%	106%	109%	110%	108%	101%	91%	77%	64%	52%	43%	36%	31%	27%	24%	21%	19%	17%	15%	15%

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°
825	821	823	825	828	832	835	837	838	835	827	812	787	756	716	670	622	575	531	492
100%	100%	100%	100%	100%	101%	101%	101%	102%	101%	100%	98%	95%	92%	87%	81%	75%	70%	64%	60%

Intensities in 180° c-plane

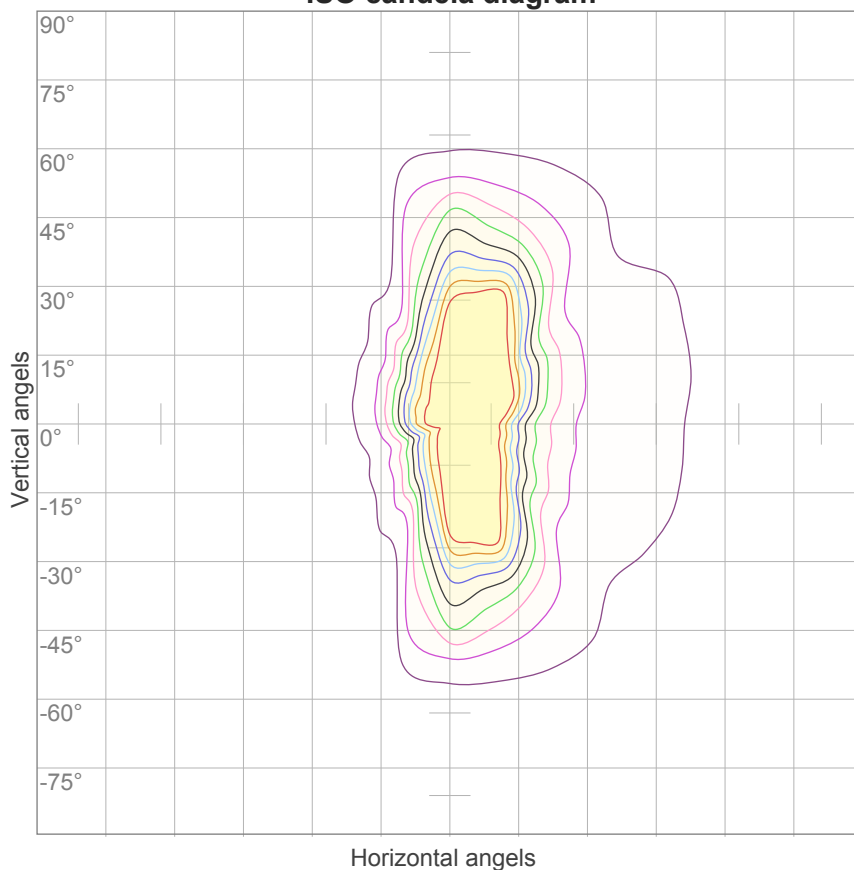
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
825	813	777	731	651	537	418	306	221	160	119	93	75	62	55	50	50	52	56	59
100%	99%	94%	89%	79%	65%	51%	37%	27%	19%	14%	11%	9%	8%	7%	6%	6%	6%	7%	7%

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°
825	820	820	823	825	829	833	838	841	844	841	834	820	798	769	731	689	642	596	552
100%	99%	99%	100%	100%	100%	101%	102%	102%	102%	102%	101%	99%	97%	93%	89%	84%	78%	72%	67%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
46,6°	97,6°	172,1°	85,0%	68,3%

ISO candela diagram



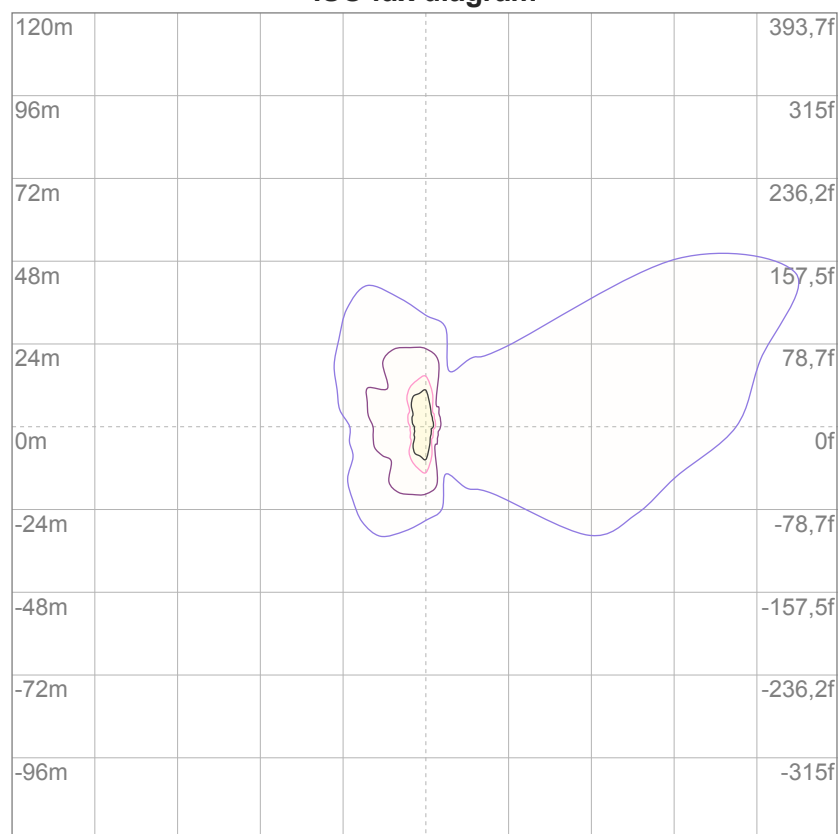
10%	82 cd
20%	165 cd
30%	247 cd
40%	330 cd
50%	412 cd
60%	495 cd
70%	577 cd
80%	660 cd
90%	742 cd

Conditions:

Number of c-planes: 16

Candela at center: 825 cd

ISO lux diagram



3%	0,247 lx
5%	0,412 lx
10%	0,825 lx
30%	2,47 lx
50%	4,12 lx

Conditions:

Number of c-planes: 16

Lux at center: 8,25 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				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variation of the observer position for the luminaire distance S										
n/a	n/a					n/a				
n/a	n/a					n/a				
n/a	n/a					n/a				
Standard table	n/a					n/a				
Correction summand	n/a					n/a				
Corrected glare indices referring to 930 lm total luminous flux										

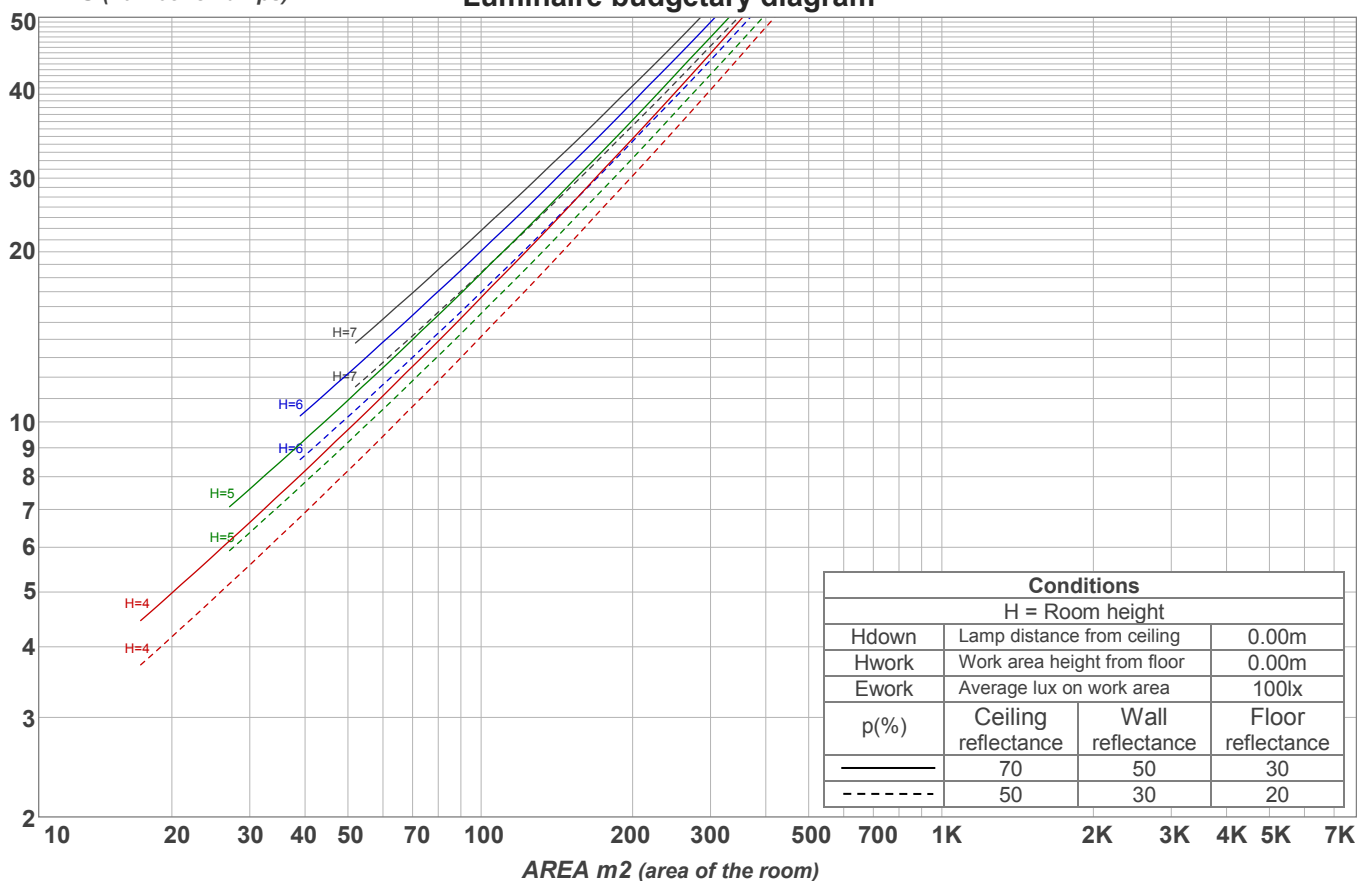
UGR data could not be calculated due to missing/wrong symmetry. Goto Edit->Photometric->Corrections and select Correct asymmetry.

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	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	68	66
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	56	54
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	51	47	45
8	68	56	49	44	67	56	49	44	55	48	43	53	48	43	52	47	43	41
9	65	53	45	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38
10	61	49	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36

LAMPS (number of lamps)

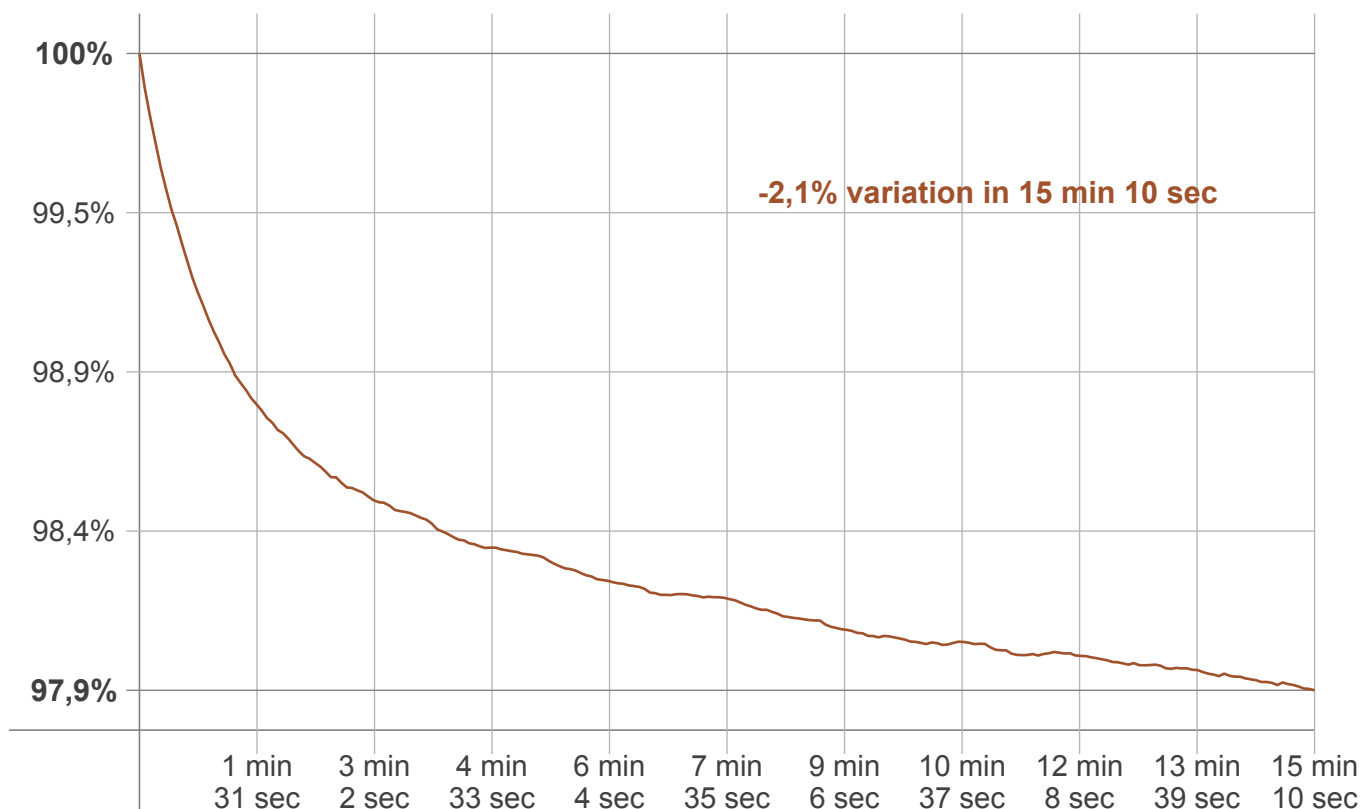
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
75,9 lm	172 lm	177 lm	147 lm	120 lm	98,3 lm	65,4 lm	43,3 lm	30,6 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,086 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm

Warmup curve



Warmup result

Warmup time:	15 min 10 sec
Warmup variation	-2,1%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2677 K	-2 K	2675 K

Output change

Output start	Output change	Output end
948 lm	-17 lm	930 lm