

Light efficiency:

127 Lumen/Watt

Light quality:

CRI: 83,7

Color temperature:

4178 K

Output: 1038 lm

Peak: 1490 cd

Power: 8,2 W

PF: 1,0



Product name:

Pegasus-3-Gold-0508-840-L3T

Item number:

FLNP-L-16A-0508-840-L3T

Date and time:

23.02.2021 14:00:59

Description:

Rank: S15ZT

Toleranzen:

Lumen +/-4%

Candela +/-2,5%

Colour Temp +/-35 Grad K

CRI +/-0,7

Angular Resolution 1 Grad step

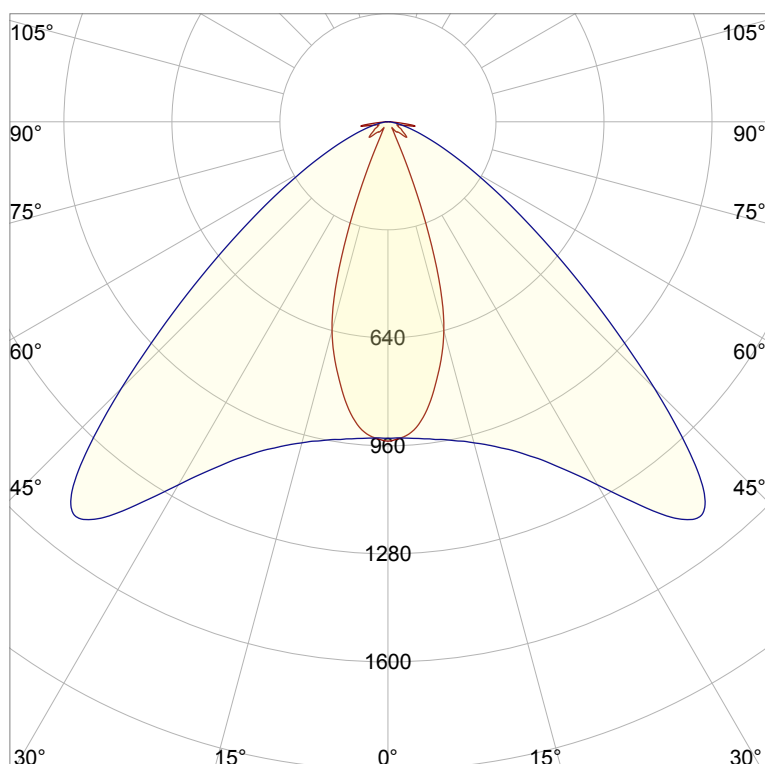
Last Calibration 20-05-2020

Pruefer: Peter Ulrich

Pruefort: Lichtlabor

Gaustrasse13-15

55411 Bingen am Rhein

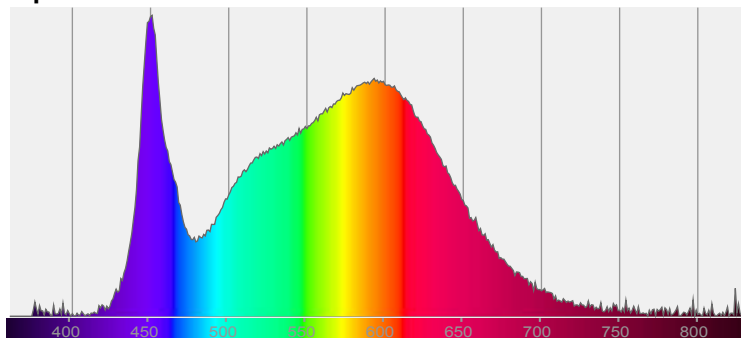


CIE 1931

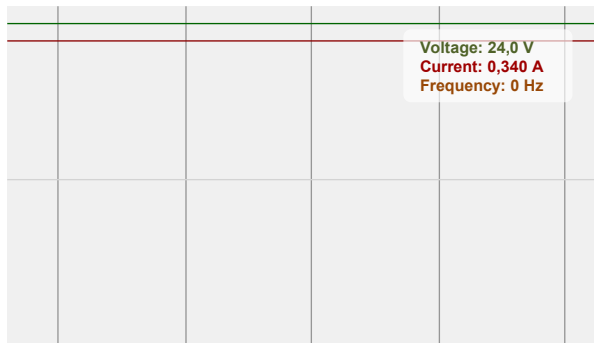
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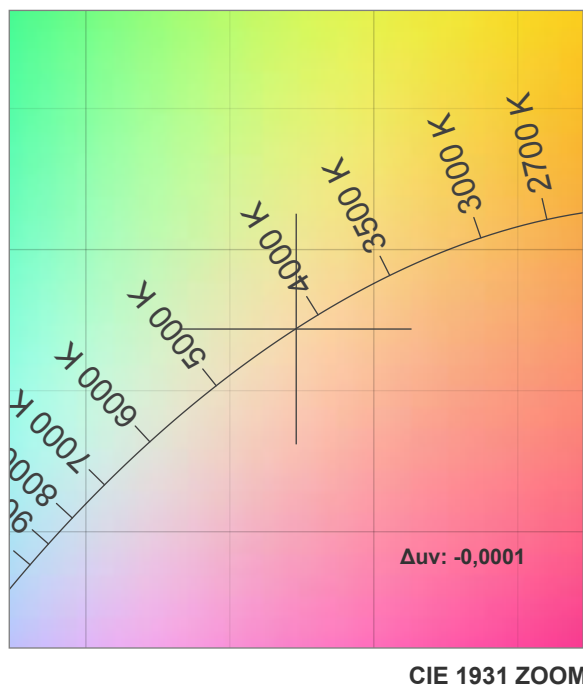
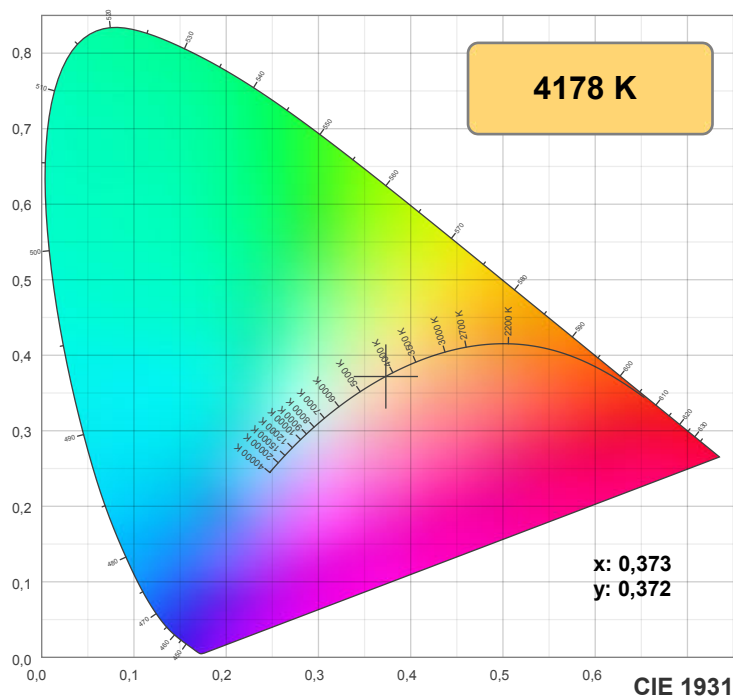
y: 0,372

Spectra

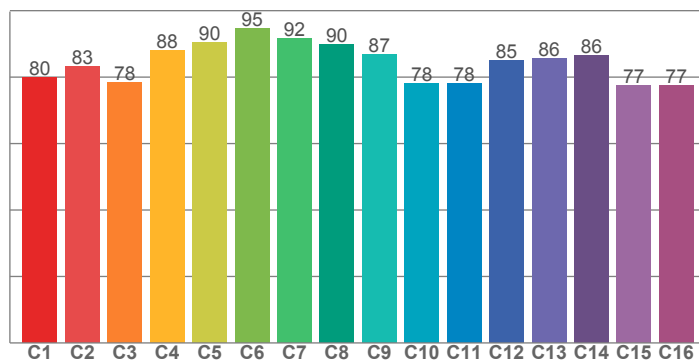


Power

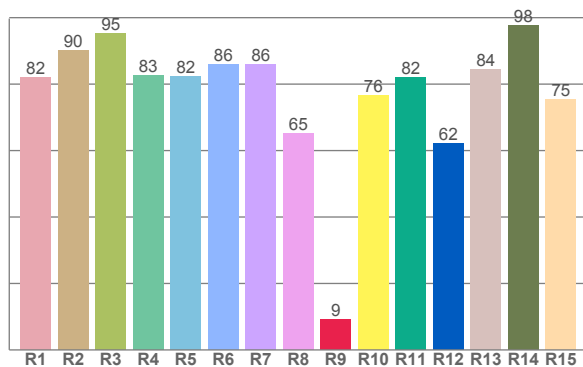




TM30: 84,2



CRI: 83,7 (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
82,1	90,2	95,3	82,6	82,2	85,9	86,0	65,2	9,3	76,5	81,9	62,1	84,4	97,8	75,4

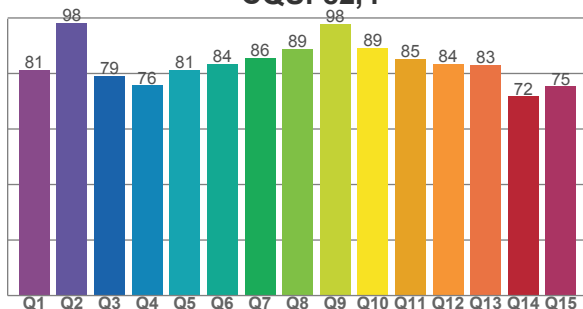
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79,9	83,3	78,3	88,1	90,3	94,7	91,7	89,7	86,8	78,1	78,0	85,1	85,7	86,4	77,4	77,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81,4	98,3	79,2	75,7	81,1	83,5	85,6	89,0	97,7	89,1	85,2	83,5	82,9	71,7	75,3

CQS: 82,4



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
4178 K	83,7	9,3	84,2	95,4	82,4	0,373	0,372	0,222	0,332	-0,0001

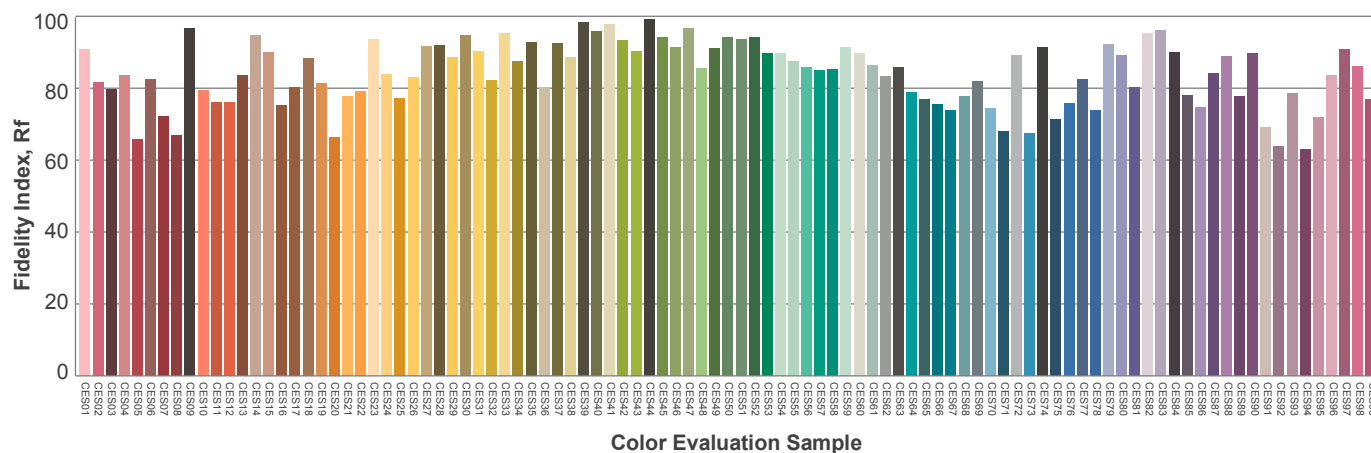
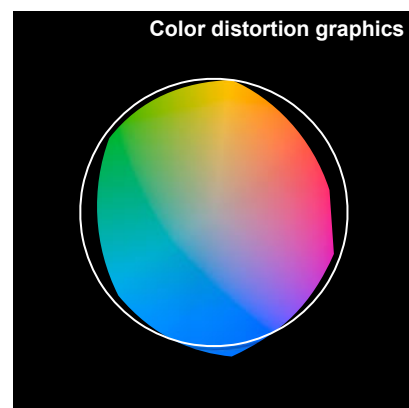
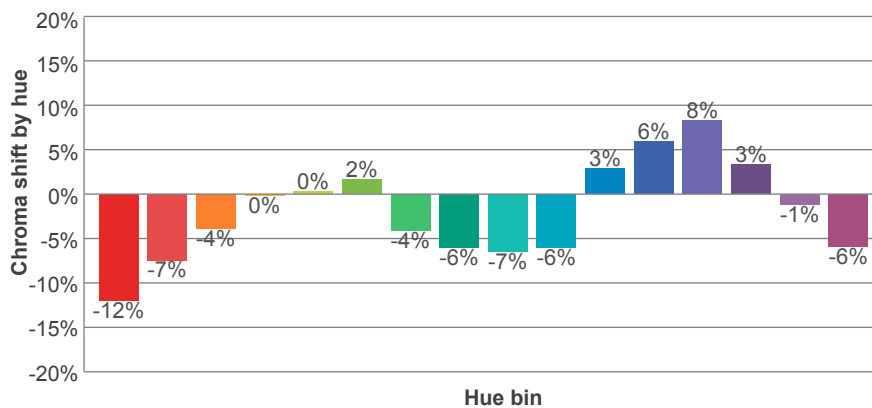
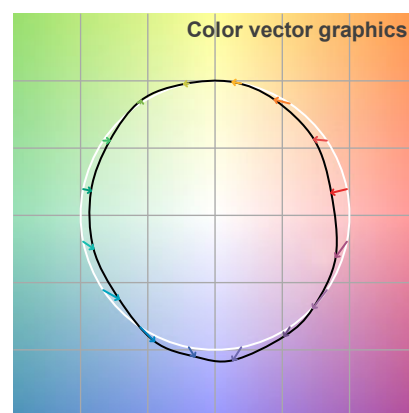
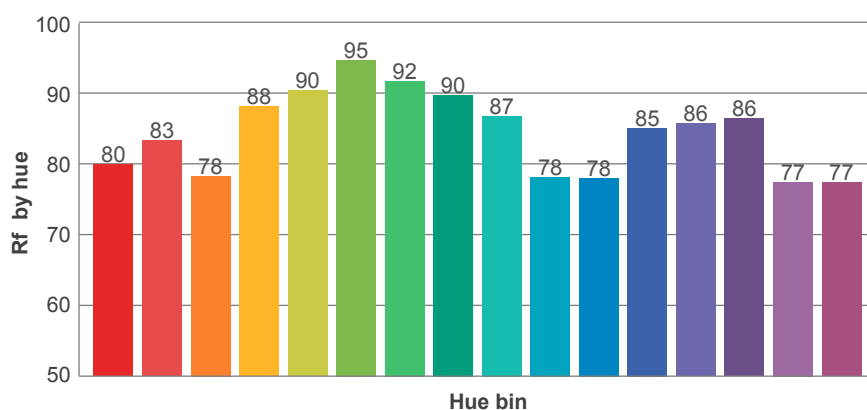
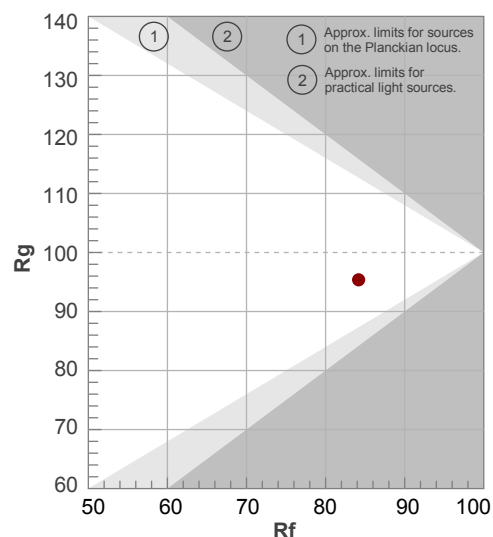
Rf 84,2

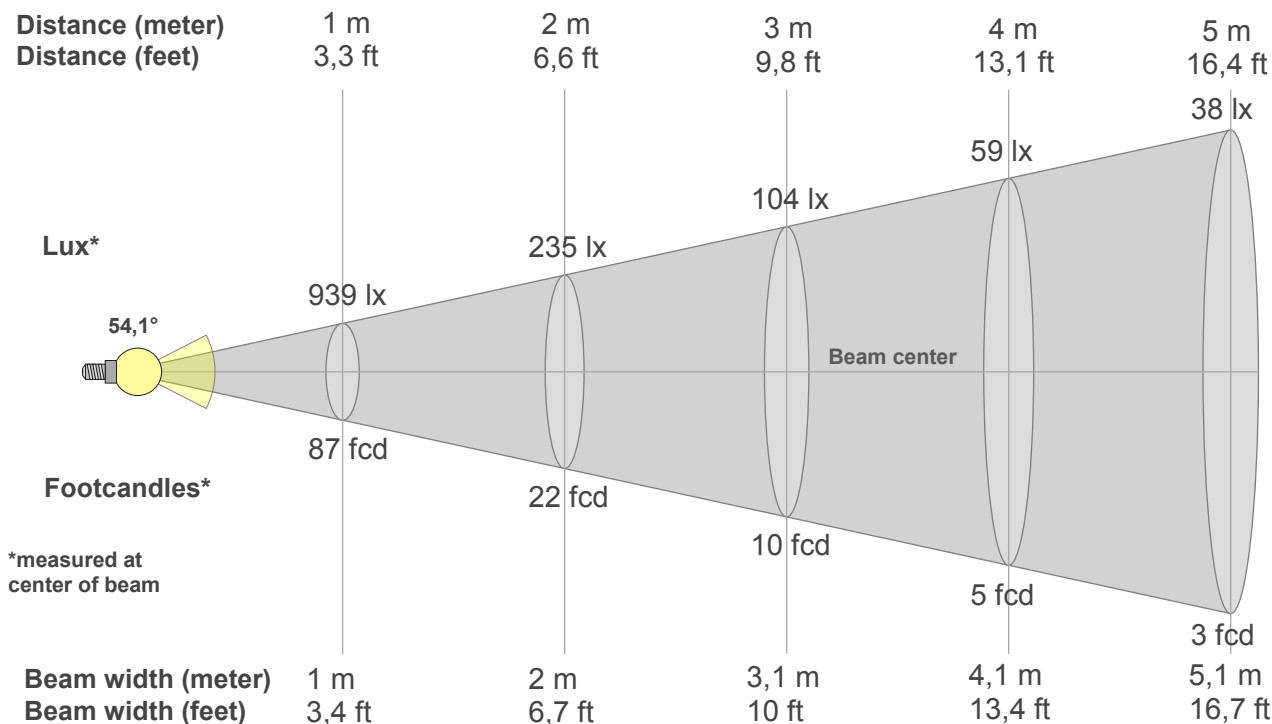
Fidelity index Rf

Rg 95,4

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	80	-12%	0%
2	83	-7%	6%
3	78	-4%	11%
4	88	0%	7%
5	90	0%	4%
6	95	2%	-2%
7	92	-4%	-3%
8	90	-6%	0%
9	87	-7%	7%
10	78	-6%	12%
11	78	3%	14%
12	85	6%	6%
13	86	8%	-8%
14	86	3%	-7%
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
939lx	235lx	104lx	59lx	38lx	26lx	19lx	15lx	12lx	9lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx
87,2fcd	21,8fcd	9,7fcd	5,5fcd	3,5fcd	2,4fcd	1,8fcd	1,4fcd	1,1fcd	0,9fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,3fcd	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°
939	939	925	897	853	798	740	676	597	485	349	221	122	63	41	31	24	21	25	33
100%	100%	99%	96%	91%	85%	79%	72%	64%	52%	37%	24%	13%	7%	4%	3%	3%	2%	3%	3%

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°
939	937	940	944	950	956	966	977	992	1010	1032	1059	1092	1134	1182	1242	1310	1384	1451	1488
100%	100%	100%	101%	101%	102%	103%	104%	106%	108%	110%	113%	116%	121%	126%	132%	140%	147%	155%	158%

Intensities in 180° c-plane

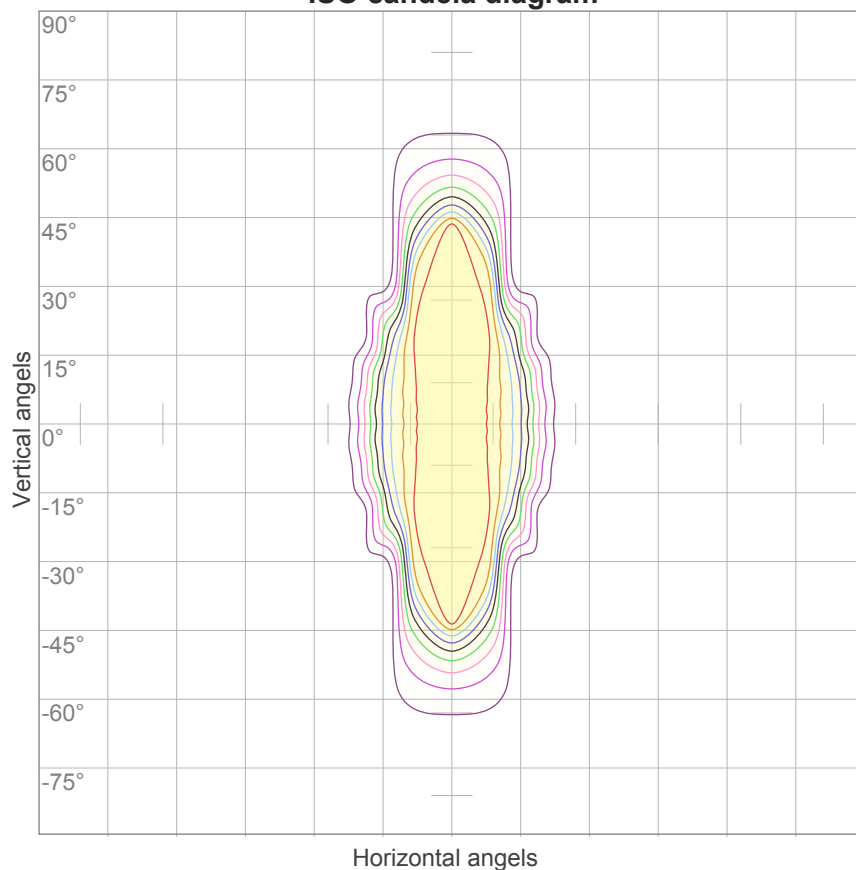
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
939	939	925	897	853	798	740	676	597	485	349	221	122	63	41	31	24	21	25	33
100%	100%	99%	96%	91%	85%	79%	72%	64%	52%	37%	24%	13%	7%	4%	3%	3%	2%	3%	3%

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°
939	937	940	944	950	956	966	977	992	1010	1032	1059	1092	1134	1182	1242	1310	1384	1451	1488
100%	100%	100%	101%	101%	102%	103%	104%	106%	108%	110%	113%	116%	121%	126%	132%	140%	147%	155%	158%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
54,1°	69,9°	163,1°	88,0%	73,4%

ISO candela diagram



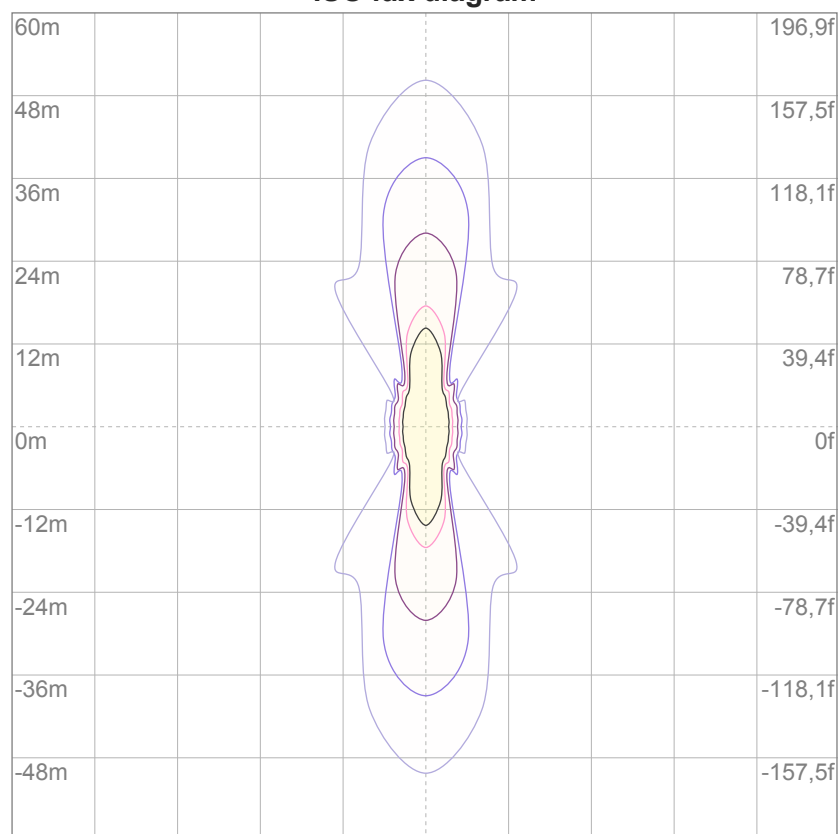
10%	94 cd
20%	188 cd
30%	282 cd
40%	375 cd
50%	469 cd
60%	563 cd
70%	657 cd
80%	751 cd
90%	845 cd

Conditions:

Number of c-planes: 16

Candela at center: 939 cd

ISO lux diagram



3%	0,282 lx
5%	0,469 lx
10%	0,939 lx
30%	2,82 lx
50%	4,69 lx

Conditions:

Number of c-planes: 16

Lux at center: 9,39 lx

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

Glare Evaluation According to UGR

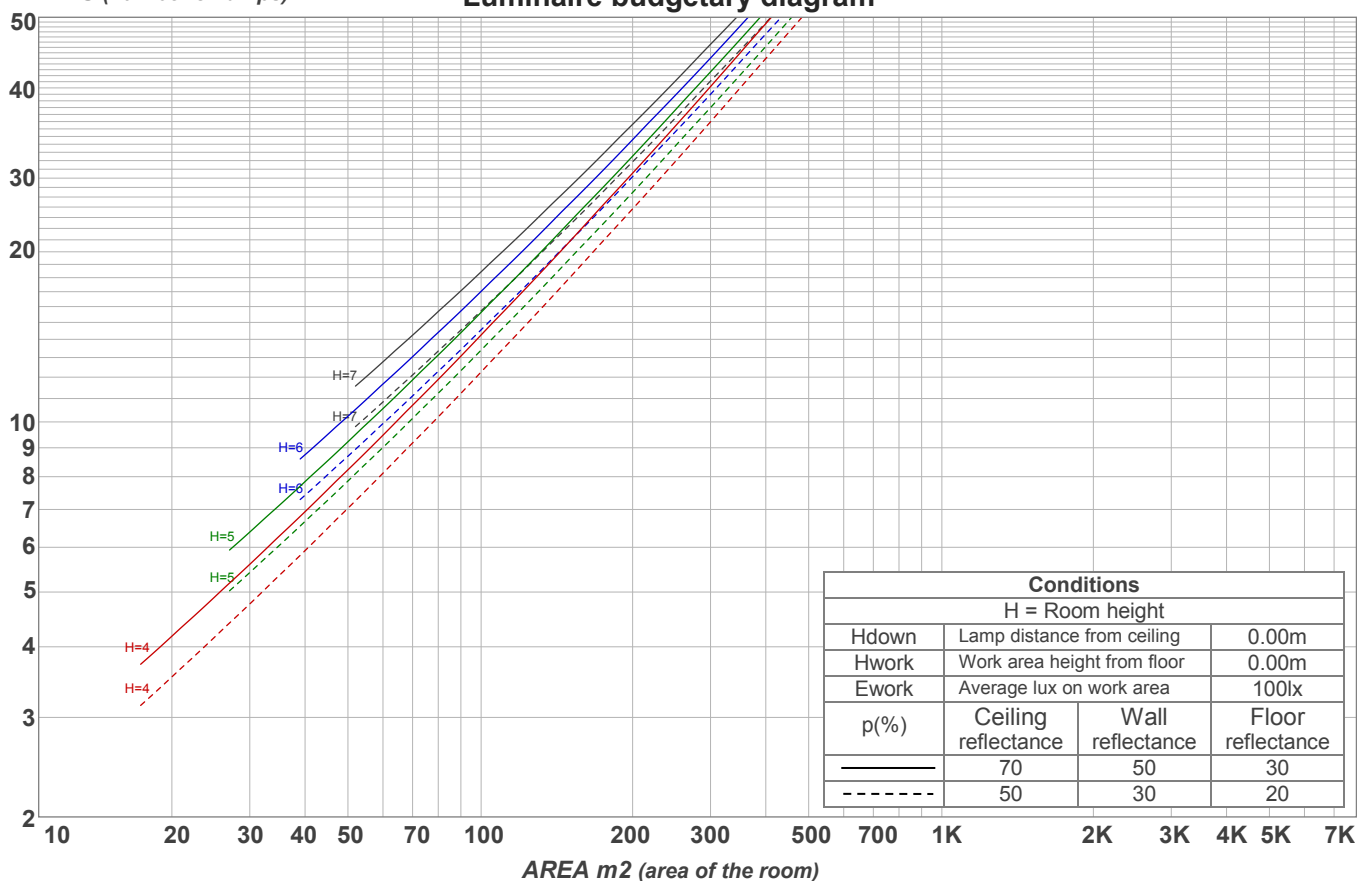
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	13,0	13,9	13,2	14,2	14,4	26,1	27,0	26,3	27,3	27,5
	3H	14,3	15,3	14,7	15,5	15,7	26,4	27,4	26,8	27,7	27,8
	4H	15,3	16,3	15,7	16,5	16,8	26,5	27,5	26,9	27,7	28,0
	6H	18,4	19,3	18,7	19,6	19,9	26,6	27,5	26,9	27,8	28,1
	8H	20,2	21,0	20,5	21,3	21,7	26,6	27,4	27,0	27,7	28,1
	12H	20,7	21,5	21,1	21,9	22,3	26,6	27,4	26,9	27,7	28,1
4H	2H	13,5	14,5	13,9	14,7	15,0	25,7	26,7	26,1	27,0	27,2
	3H	15,1	15,9	15,4	16,2	16,6	26,3	27,0	26,6	27,4	27,8
	4H	16,2	16,9	16,6	17,3	17,9	26,3	27,0	26,8	27,5	28,0
	6H	19,6	20,3	20,1	20,6	21,0	26,4	27,1	26,9	27,5	27,8
	8H	21,6	22,2	22,1	22,6	23,0	26,4	27,1	26,9	27,4	27,8
	12H	22,2	22,8	22,7	23,2	23,7	26,4	26,9	26,9	27,3	27,8
8H	4H	16,5	17,1	17,0	17,5	17,9	26,2	26,9	26,7	27,2	27,6
	6H	20,2	20,7	20,7	21,2	21,7	26,3	26,8	26,8	27,3	27,8
	8H	22,6	23,0	23,1	23,5	24,2	26,4	26,8	26,9	27,3	27,9
	12H	23,5	23,9	24,1	24,4	25,0	26,4	26,7	27,0	27,2	27,8
12H	4H	16,5	17,0	17,0	17,5	17,9	26,2	26,7	26,7	27,1	27,6
	6H	20,4	20,8	20,9	21,3	21,9	26,3	26,8	26,9	27,3	27,9
	8H	22,8	23,1	23,3	23,6	24,2	26,4	26,7	27,0	27,2	27,8
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,0 / 0,0					2,5 / -3,5				
S = 1.5H		0,1 / -0,1					4,6 / -5,5				
S = 2.0H		0,2 / -0,1					6,4 / -6,6				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1038 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	110	106	103	100	108	104	101	98	100	97	95	95	93	91	92	90	88	86
2	103	96	91	86	100	94	89	85	91	87	83	87	84	81	84	81	79	77
3	96	88	81	76	94	86	80	75	83	78	74	80	76	72	78	74	71	69
4	90	80	73	68	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	74	67	61	82	73	66	61	71	65	60	69	63	59	67	62	59	57
6	79	68	61	56	77	67	60	55	66	59	55	64	58	54	62	57	54	52
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	58	53	50	48
8	71	59	52	47	69	59	52	47	57	51	47	56	50	46	55	50	46	44
9	67	55	49	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

LAMPS (number of lamps)

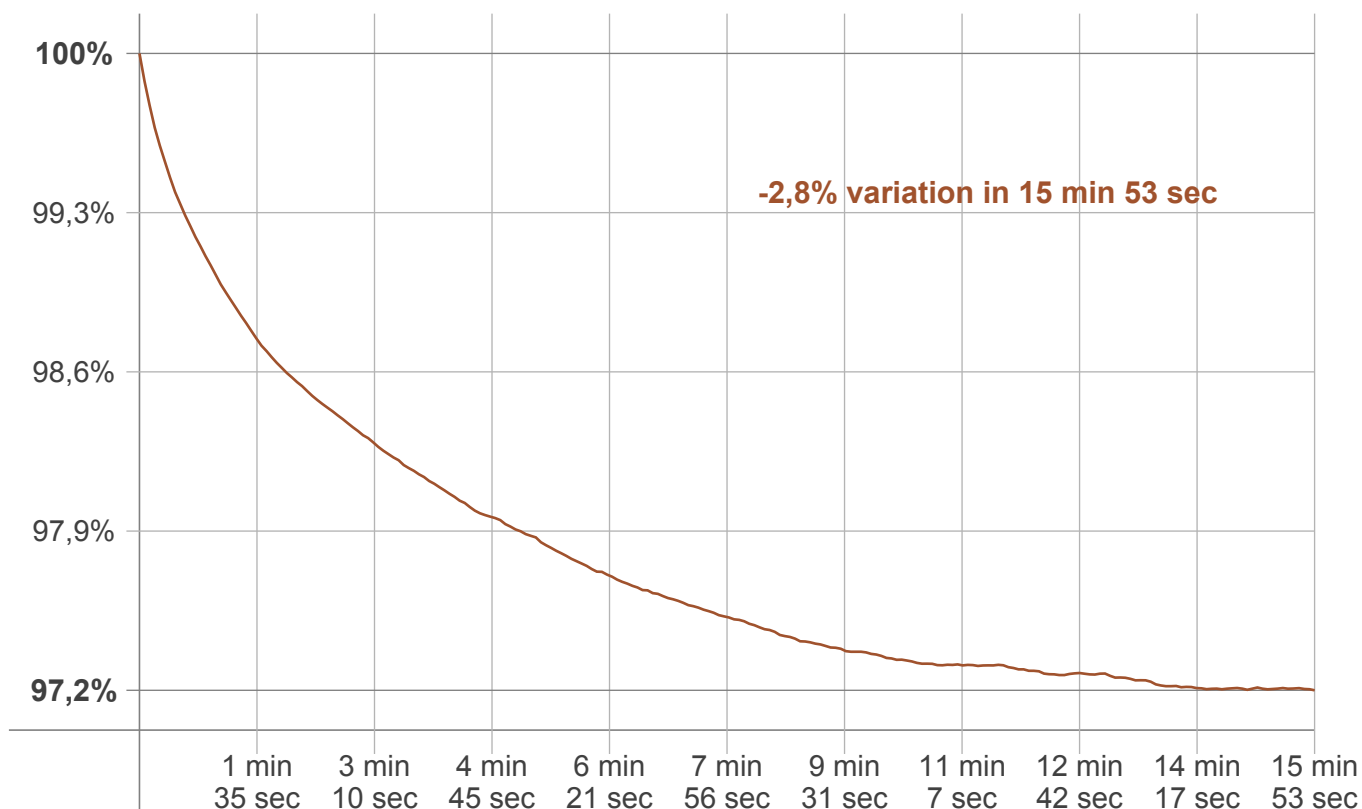
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
87,1 lm	221 lm	218 lm	163 lm	133 lm	91,2 lm	50,4 lm	29,5 lm	26,2 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
6,85 lm	2,81 lm	2,40 lm	2,17 lm	1,64 lm	1,19 lm	0,875 lm	0,536 lm	0,180 lm

Warmup curve



Warmup result

Warmup time:	15 min 53 sec
Warmup variation	-2,8%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
4155 K	+23 K	4178 K

Output change

Output start	Output change	Output end
1064 lm	-26 lm	1038 lm