

Light efficiency:

82 Lumen/Watt

Light quality:

CRI: 92,2

Color temperature:

3040 K

Output: 832 lm

Peak: 1228 cd

Power: 10,1 W

PF: 1,0



Product name:

Pegasus-3-Gold-0508-930-L1F

Item number:

FLNP/L/16A0508/930/L1F

Date and time:

05.05.2021 14:32:13

Description:

Rank: M27ZT

Toleranzen:

Lumen +/-4%

Candela +/-2,5%

Colour Temp +/-35 K

CRI +/- 0,7

Angular Resolution 1 Grad step

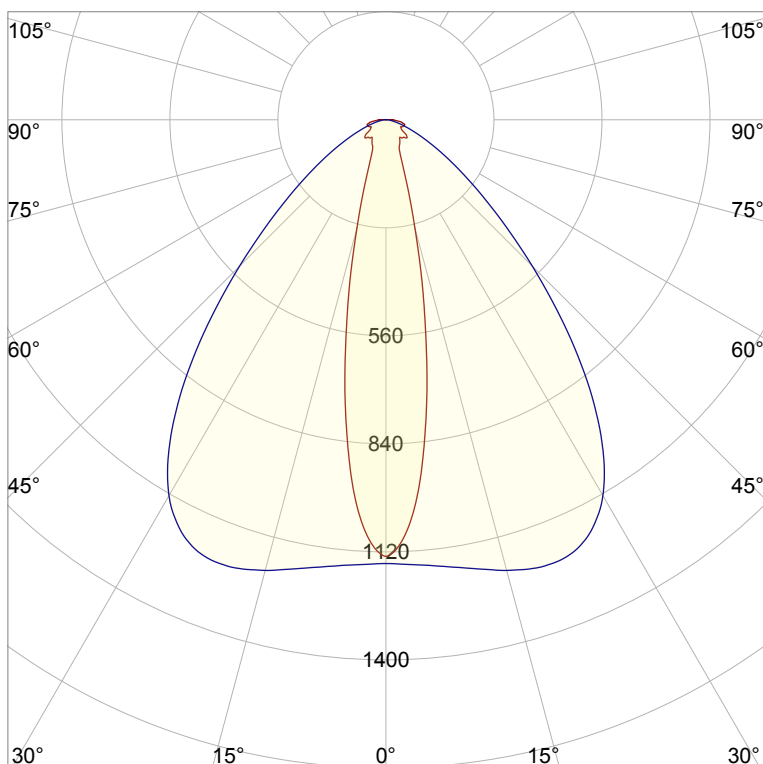
Last Calibration 20-05-2020

Pruefer: Peter Ulrich

Pruefort: Lichtlabor

Gaustrasse13

55411 Bingen am Rhein

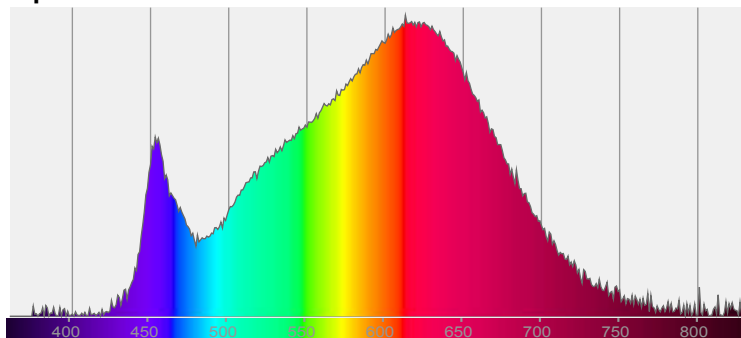


CIE 1931

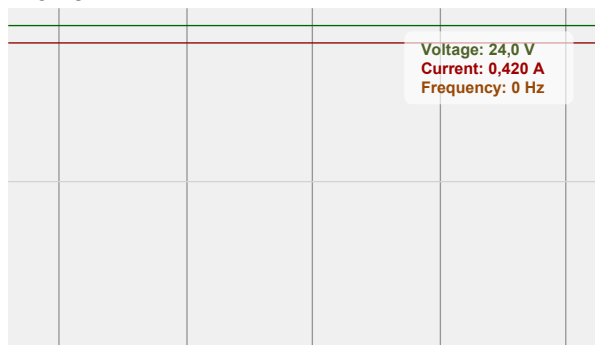
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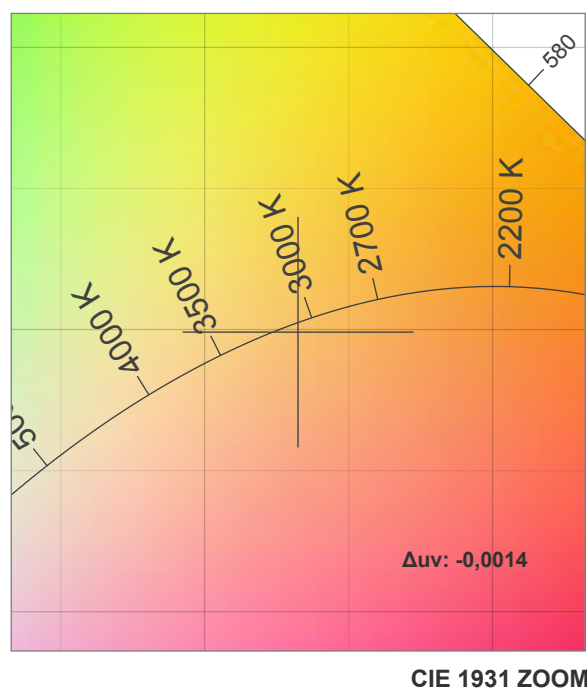
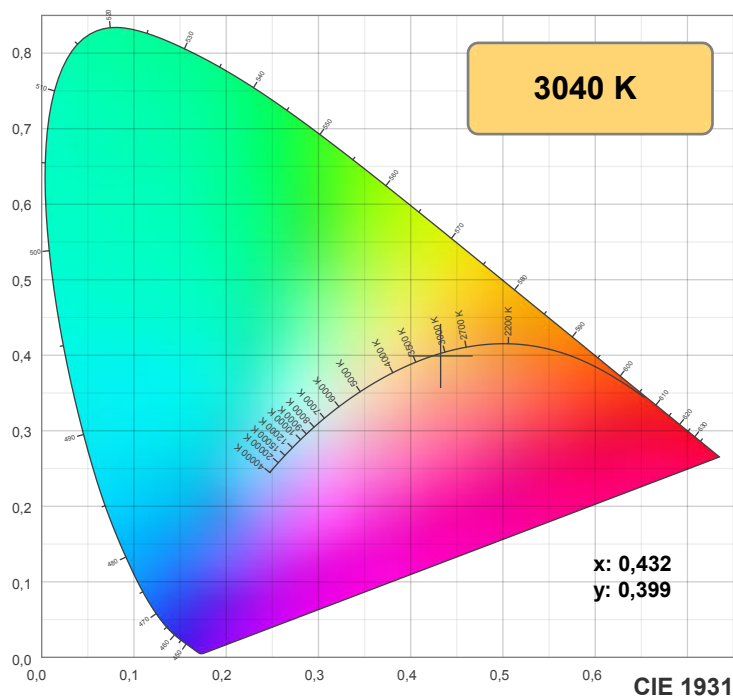
y: 0,399

Spectra

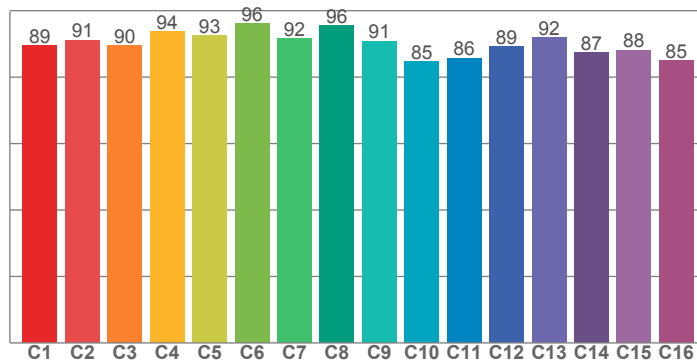


Power

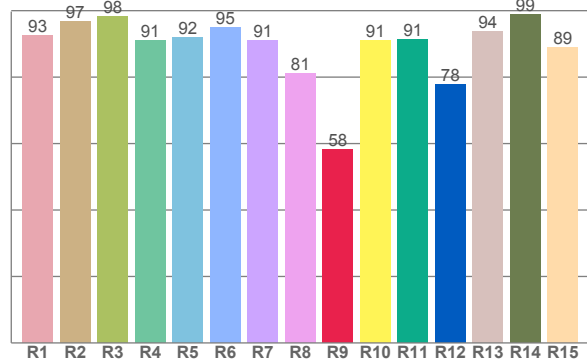




TM30: 90,2



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
92,5	96,8	98,2	91,1	91,9	95,0	91,1	81,0	58,2	91,0	91,2	77,7	93,9	98,8	88,9

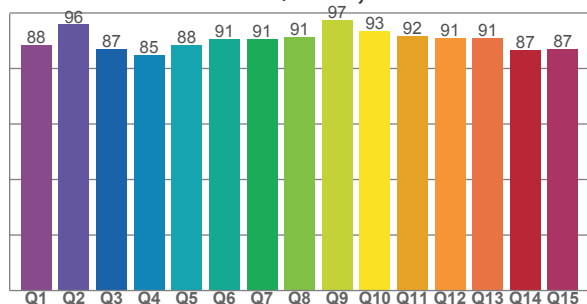
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,5	91,2	89,6	93,7	92,5	96,1	91,7	95,6	90,9	84,7	85,7	89,2	91,9	87,3	88,2	84,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88,3	95,8	87,0	84,8	88,4	90,6	90,7	91,4	97,5	93,4	91,7	90,9	90,9	86,5	87,1

CQS: 89,7



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
3040 K	92,2	58,2	90,2	98,3	89,7	0,432	0,399	0,250	0,346	-0,0014

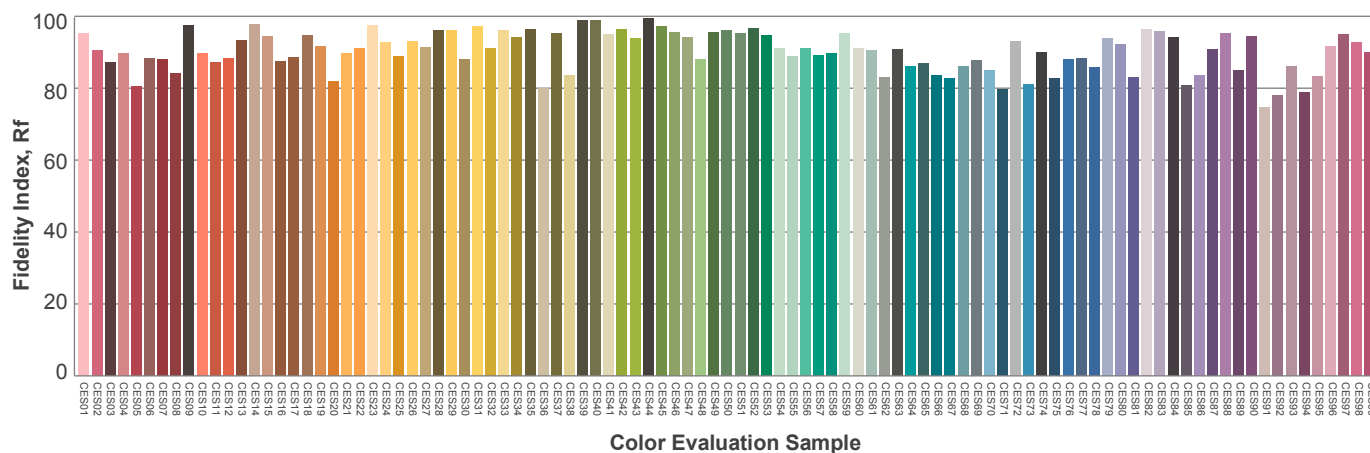
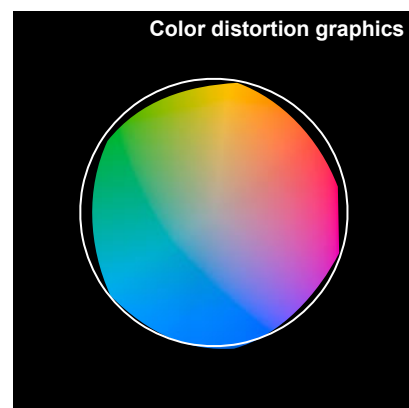
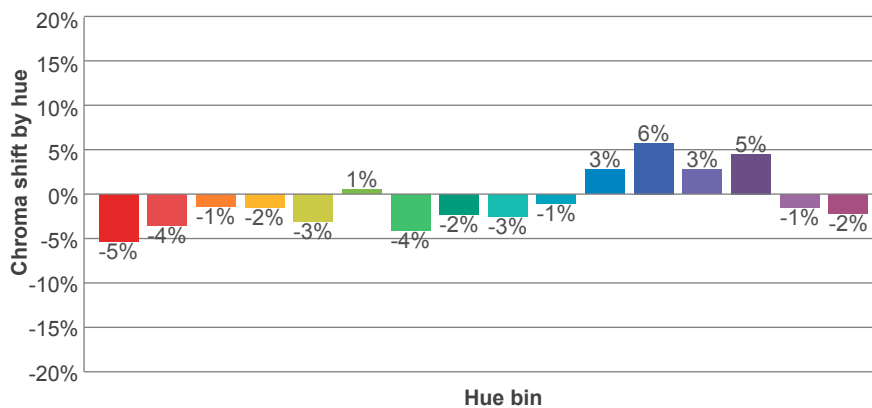
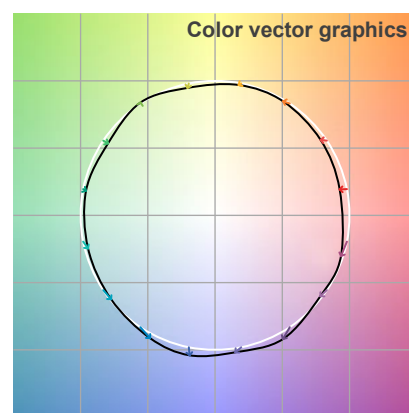
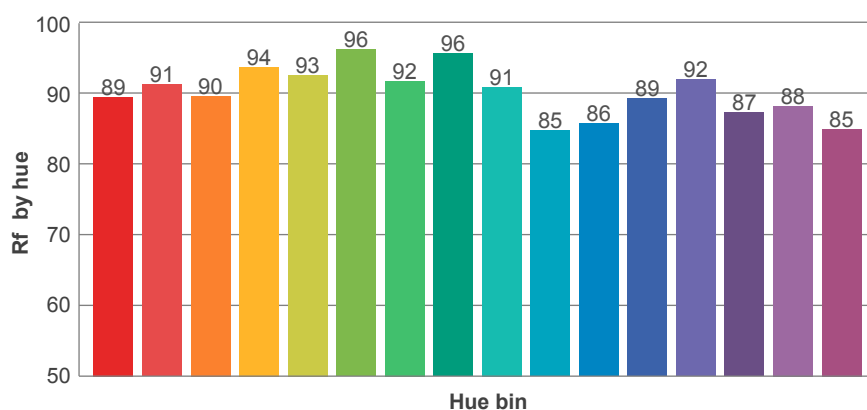
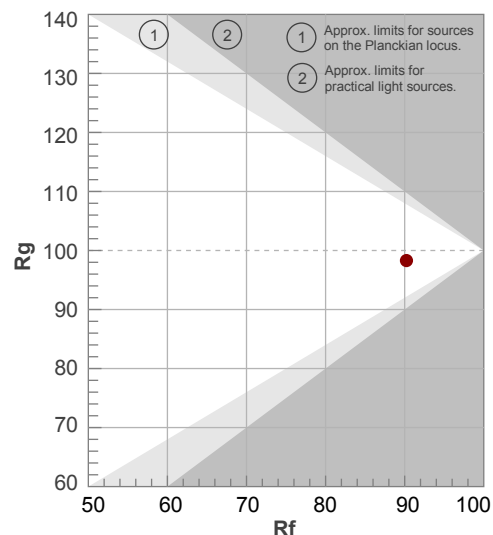
Rf 90,2

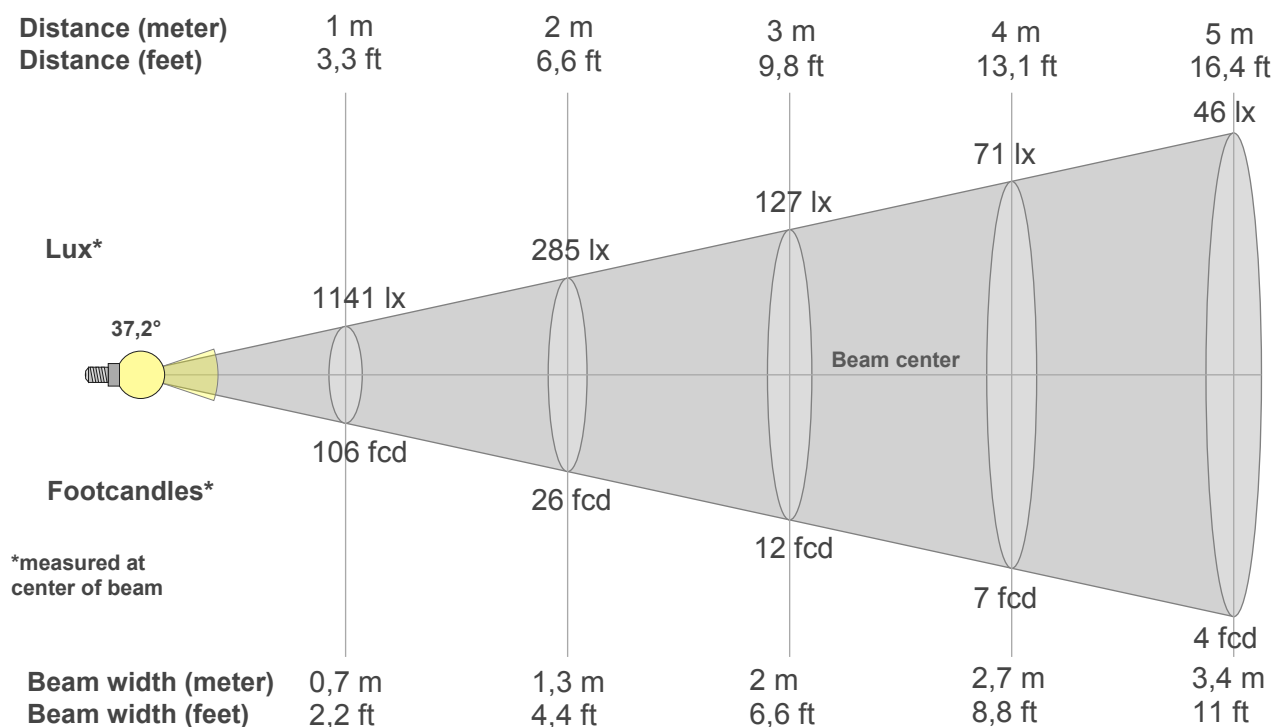
Fidelity index Rf

Rg 98,3

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	1%	-1%
7	92	-4%	0%
8	96	-2%	1%
9	91	-3%	6%
10	85	-1%	9%
11	86	3%	10%
12	89	6%	2%
13	92	3%	-5%
14	87	5%	-9%
15	88	-1%	-7%
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
1141lx	285lx	127lx	71lx	46lx	32lx	23lx	18lx	14lx	11lx	9lx	8lx	7lx	6lx	5lx	4lx	4lx	4lx	3lx	3lx
106fcd	26,5fcd	11,8fcd	6,6fcd	4,2fcd	2,9fcd	2,2fcd	1,7fcd	1,3fcd	1,1fcd	0,9fcd	0,7fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,3fcd

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°
1141	1096	1018	898	754	603	465	341	246	177	130	102	86	78	74	72	68	64	60	58
100%	96%	89%	79%	66%	53%	41%	30%	22%	16%	11%	9%	8%	7%	7%	6%	6%	6%	5%	5%

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°
1141	1152	1156	1162	1170	1180	1191	1203	1214	1223	1228	1227	1218	1198	1166	1124	1068	999	921	837
100%	101%	101%	102%	103%	103%	104%	105%	106%	107%	108%	108%	107%	105%	102%	99%	94%	88%	81%	73%

Intensities in 180° c-plane

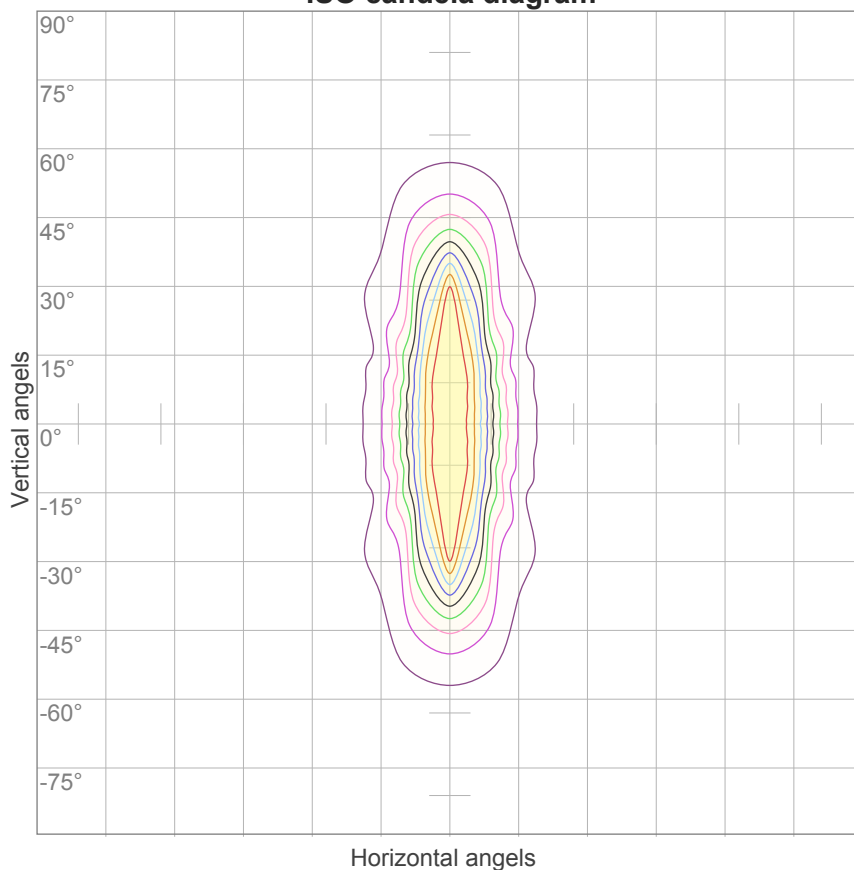
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1141	1096	1018	898	754	603	465	341	246	177	130	102	86	78	74	72	68	64	60	58
100%	96%	89%	79%	66%	53%	41%	30%	22%	16%	11%	9%	8%	7%	7%	6%	6%	6%	5%	5%

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°
1141	1152	1156	1162	1170	1180	1191	1203	1214	1223	1228	1227	1218	1198	1166	1124	1068	999	921	837
100%	101%	101%	102%	103%	103%	104%	105%	106%	107%	108%	108%	107%	105%	102%	99%	94%	88%	81%	73%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37,2°	67,2°	158,6°	87,1%	72,7%

ISO candela diagram



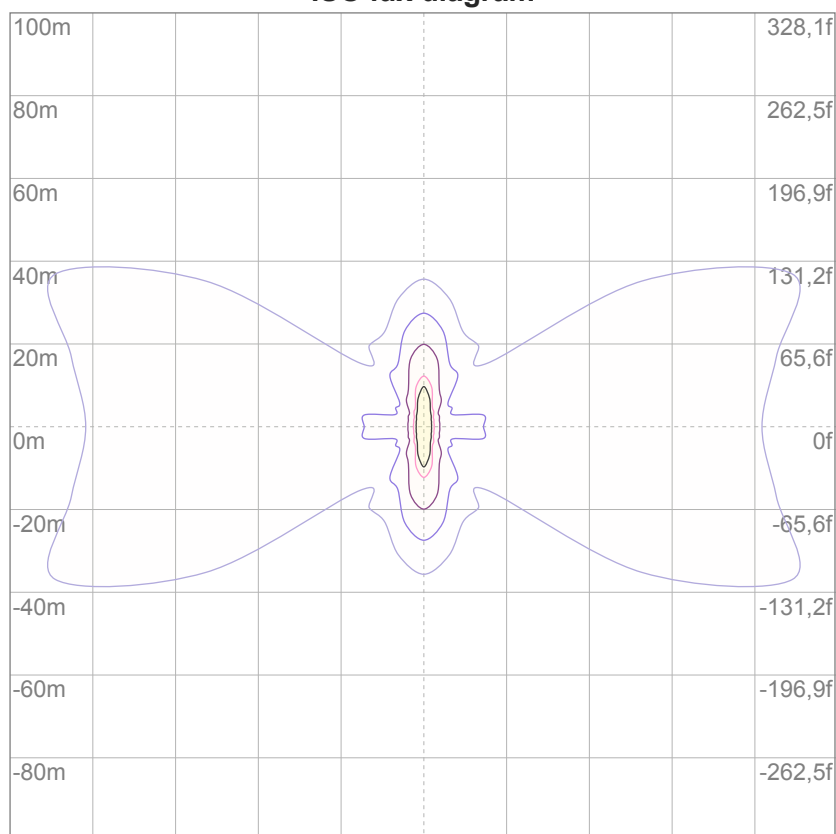
10%	114 cd
20%	228 cd
30%	342 cd
40%	456 cd
50%	570 cd
60%	684 cd
70%	798 cd
80%	913 cd
90%	1027 cd

Conditions:

Number of c-planes: 16

Candela at center: 1141 cd

ISO lux diagram



3%	0,342 lx
5%	0,570 lx
10%	1,14 lx
30%	3,42 lx
50%	5,70 lx

Conditions:

Number of c-planes: 16

Lux at center: 11,4 lx

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

Glare Evaluation According to UGR

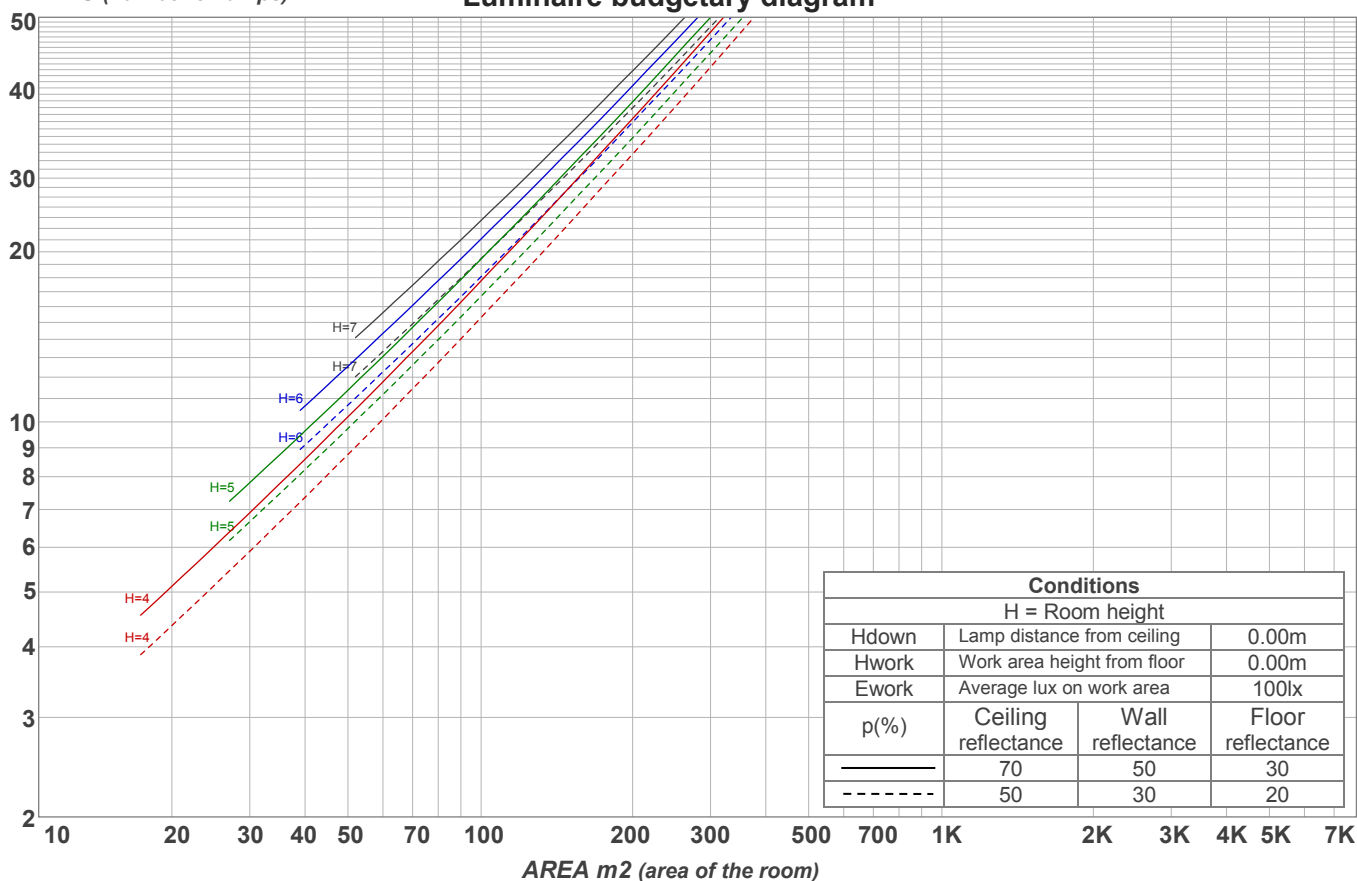
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	14,3	15,2	14,4	15,5	15,7	23,1	24,1	23,3	24,3	24,5
	3H	16,3	17,3	16,7	17,5	17,7	23,5	24,5	23,9	24,8	25,0
	4H	17,8	18,7	18,2	19,0	19,2	23,7	24,7	24,1	24,9	25,2
	6H	19,1	20,0	19,4	20,3	20,6	23,9	24,7	24,2	25,0	25,4
	8H	19,6	20,5	20,0	20,8	21,2	23,9	24,7	24,2	25,0	25,4
	12H	20,0	20,8	20,3	21,1	21,5	23,8	24,6	24,2	25,0	25,4
4H	2H	14,9	15,8	15,3	16,1	16,3	22,8	23,8	23,2	24,1	24,3
	3H	17,3	18,1	17,6	18,4	18,8	23,5	24,3	23,8	24,6	25,1
	4H	18,8	19,6	19,3	20,0	20,5	23,6	24,4	24,1	24,8	25,3
	6H	20,4	21,1	20,8	21,4	21,8	23,8	24,5	24,3	24,9	25,2
	8H	21,0	21,6	21,5	22,0	22,4	23,8	24,5	24,3	24,9	25,2
	12H	21,4	21,9	21,9	22,3	22,8	23,8	24,4	24,3	24,8	25,3
8H	4H	19,2	19,9	19,7	20,3	20,6	23,6	24,3	24,1	24,7	25,0
	6H	21,0	21,5	21,5	22,0	22,5	23,9	24,4	24,4	24,8	25,4
	8H	21,8	22,2	22,3	22,8	23,4	24,0	24,4	24,5	25,0	25,6
	12H	22,4	22,8	23,0	23,3	23,9	24,1	24,4	24,7	25,0	25,6
12H	4H	19,2	19,8	19,7	20,2	20,7	23,6	24,2	24,1	24,6	25,0
	6H	21,1	21,6	21,6	22,1	22,7	23,9	24,4	24,4	24,9	25,5
	8H	22,0	22,3	22,6	22,8	23,4	24,1	24,4	24,6	24,9	25,5
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,0 / 0,0					1,7 / -1,9				
S = 1.5H		0,1 / -0,1					3,5 / -2,8				
S = 2.0H		0,3 / -0,2					5,1 / -3,7				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 832 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	111	111	111	106	106	106	102	102	102	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	96	87	81	75	94	86	80	75	83	78	74	80	76	72	78	74	71	69
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	71	60	53	48	70	59	52	48	58	52	48	57	51	47	56	51	47	45
9	67	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40

LAMPS (number of lamps)

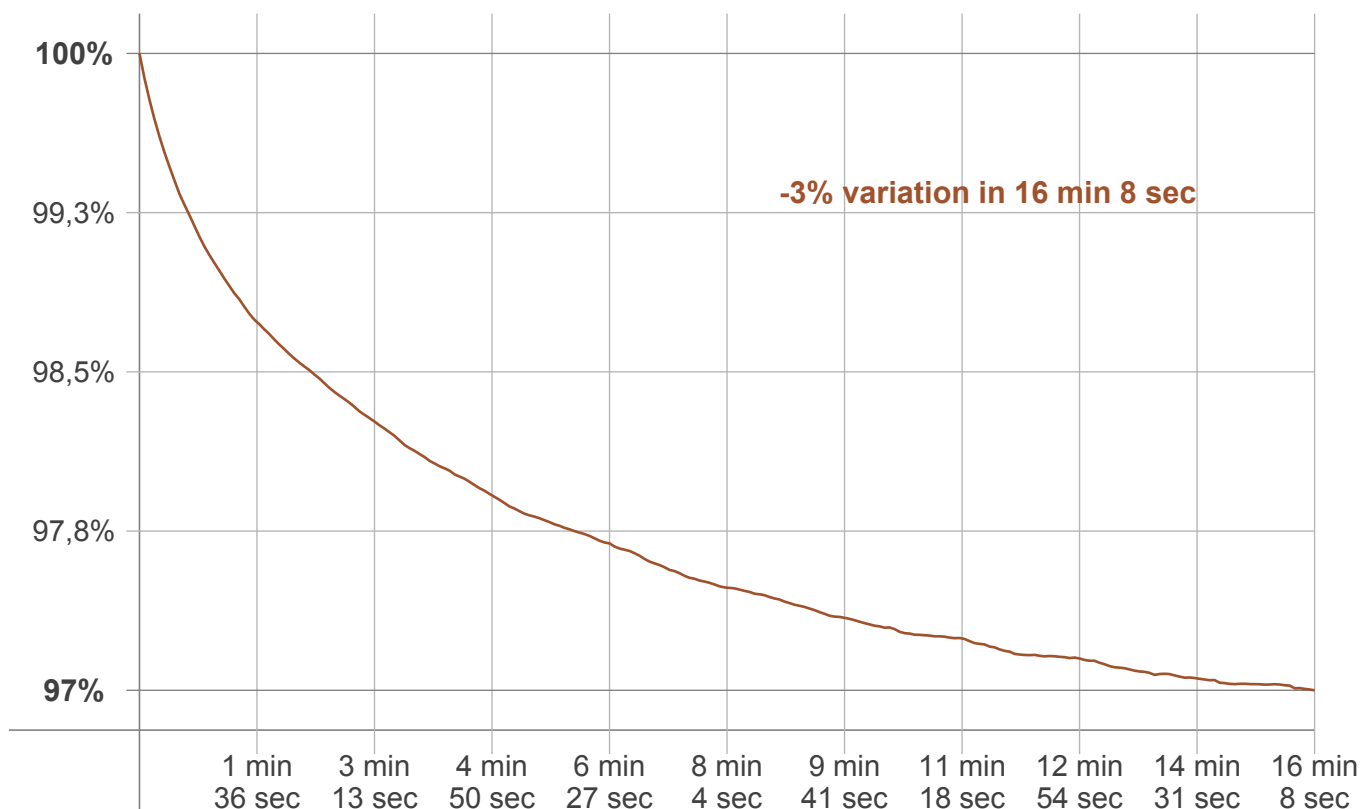
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
94,5 lm	173 lm	153 lm	130 lm	101 lm	73,2 lm	46,5 lm	35,9 lm	24,5 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,064 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:	16 min 8 sec
Warmup variation	-3,0%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
3044 K	-4 K	3040 K

Output change

Output start	Output change	Output end
855 lm	-23 lm	832 lm