

Light efficiency:

115 Lumen/Watt

Light quality:

CRI: 83,4

Color temperature:

4046 K

Output: 967 lm

Peak: 334 cd

Power: 8,4 W

PF: 1,0



Product name:

Pegasus-3-Gold-0508-840-CSF

Item number:

FLNP-L-16A-0508-840-CSF

Date and time:

18.02.2021 15:55:24

Description:

Rank: S15ZT

Toleranzen:

Lumen +/-4%

Candela +/-2,5%

Colour Temp +/-35 Grad K

CRI +/-0,7

Angular Resolution 1 Grad step

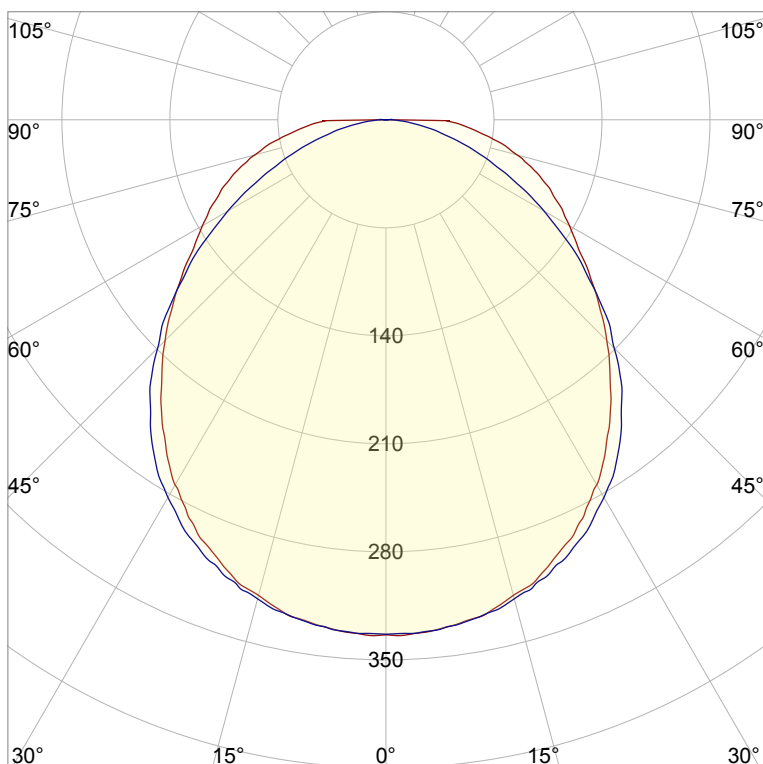
Last Calibration 20-05-2020

Pruefer: Peter Ulrich

Pruefort: Lichtlabor

Gaustrasse13-15

55411 Bingen am Rhein

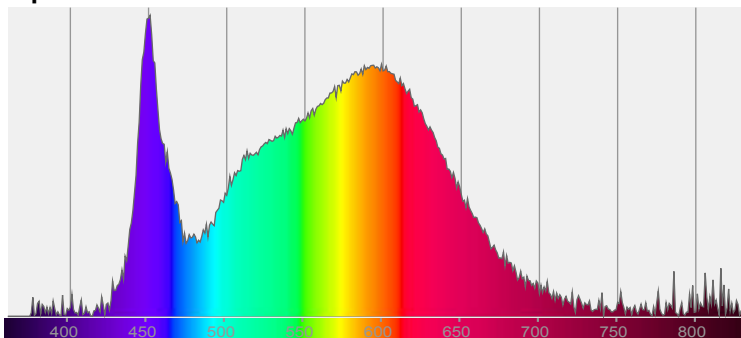


CIE 1931

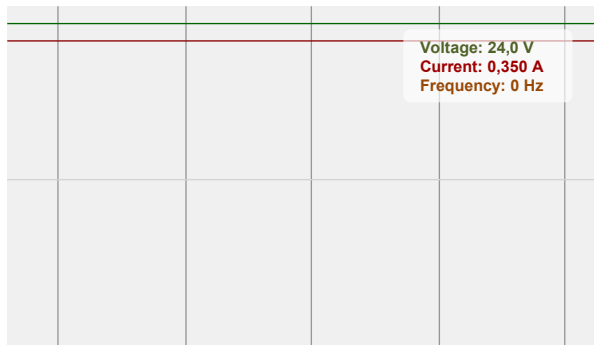
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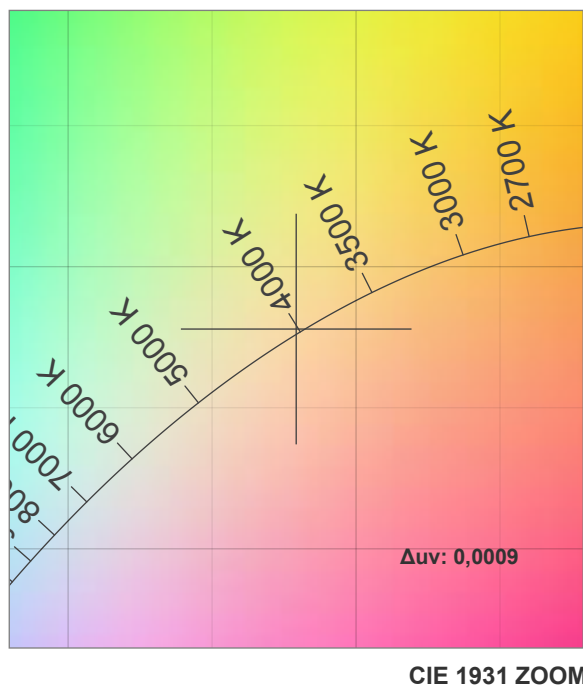
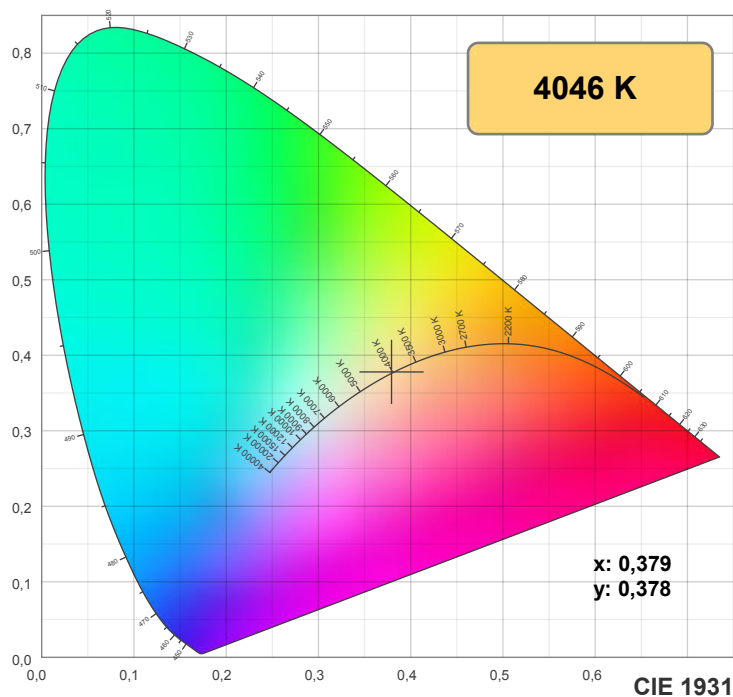
y: 0,378

Spectra

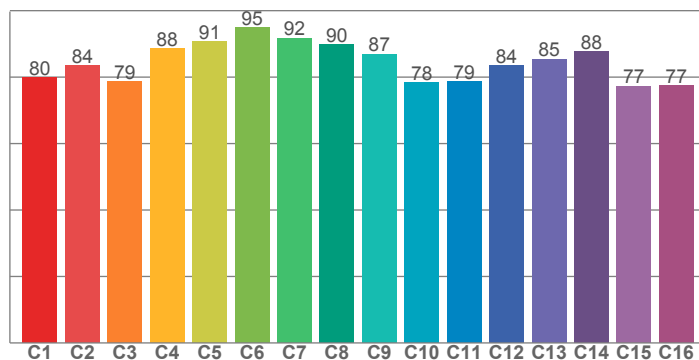


Power

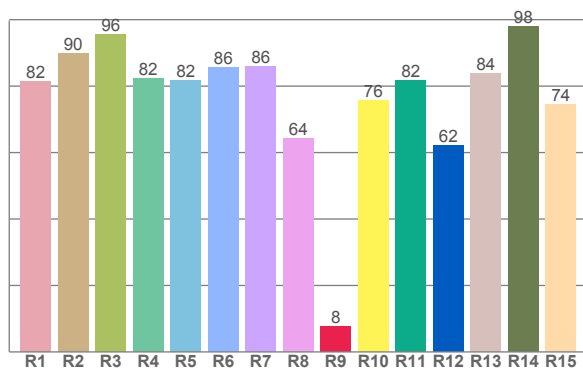




TM30: 84,4



CRI: 83,4 (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
81,6	89,7	95,5	82,4	81,7	85,7	85,9	64,3	7,6	75,8	81,8	62,2	83,7	97,8	74,4

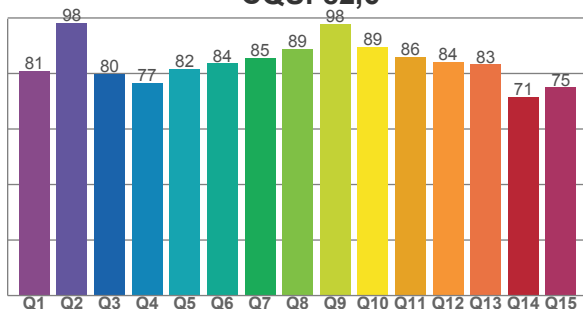
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79,9	83,5	78,7	88,5	90,6	94,8	91,8	89,8	86,9	78,5	78,6	83,5	85,5	87,6	77,3	77,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81,0	98,1	79,9	76,7	81,7	83,6	85,4	88,9	97,7	89,4	85,8	84,1	83,3	71,4	74,9

CQS: 82,6



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
4046 K	83,4	7,6	84,4	95,2	82,6	0,379	0,378	0,224	0,335	0,0009

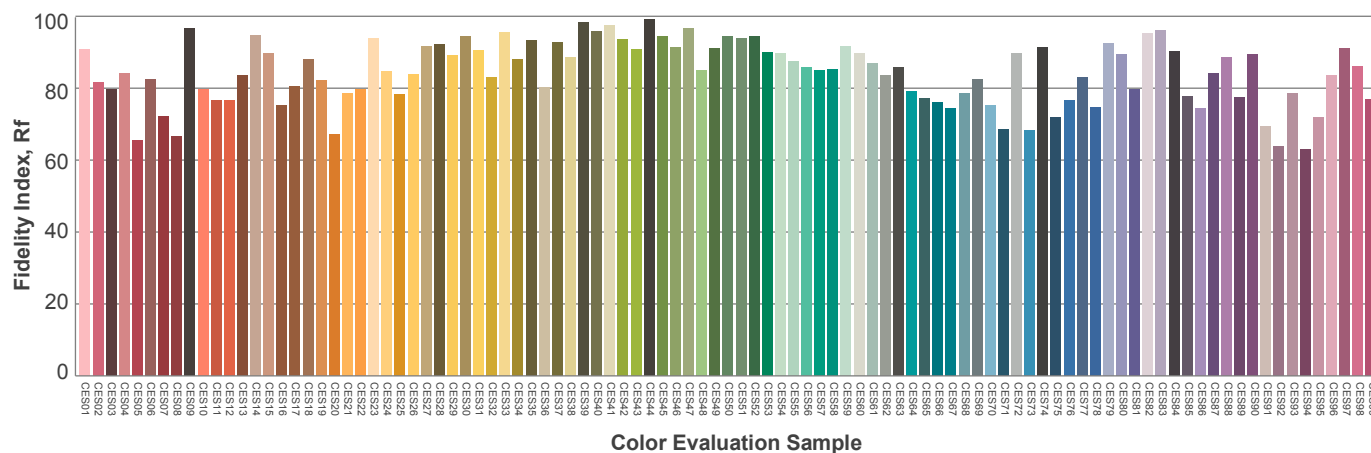
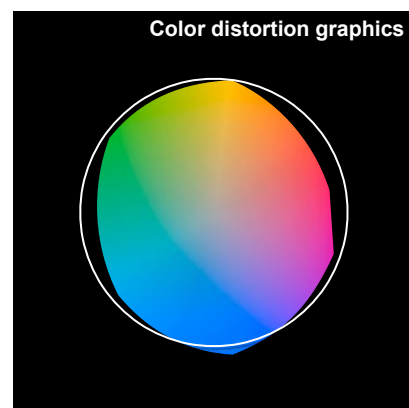
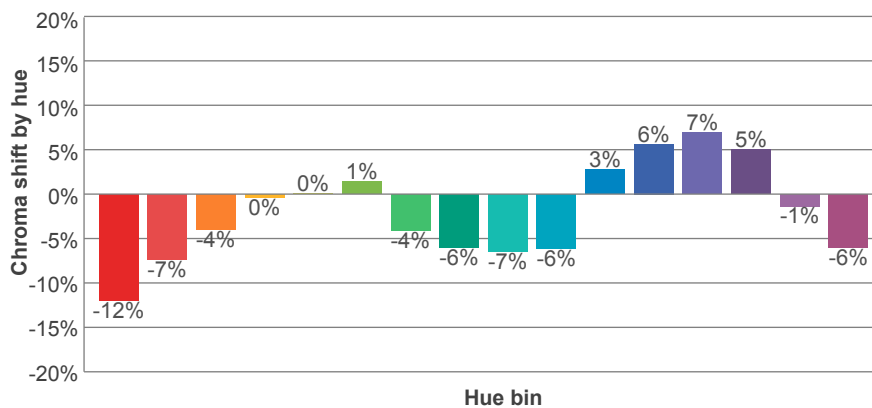
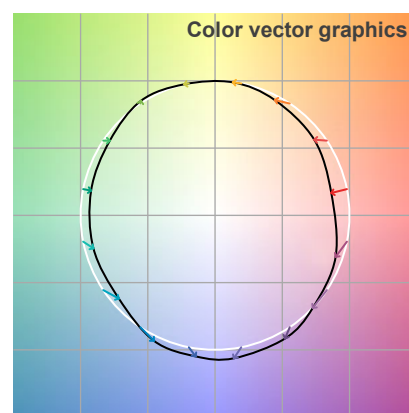
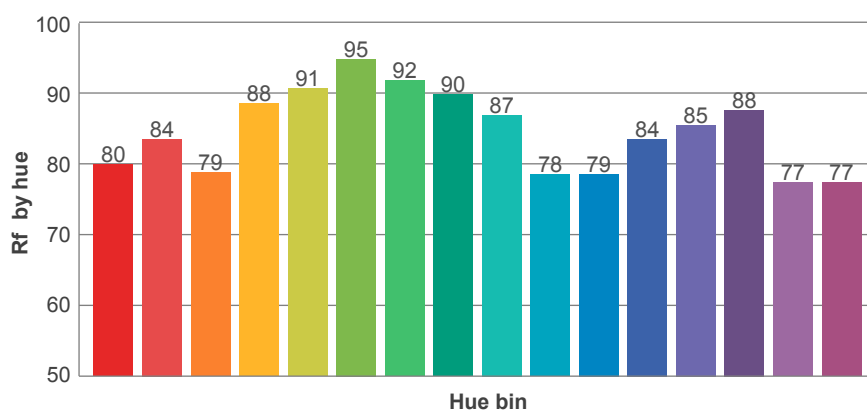
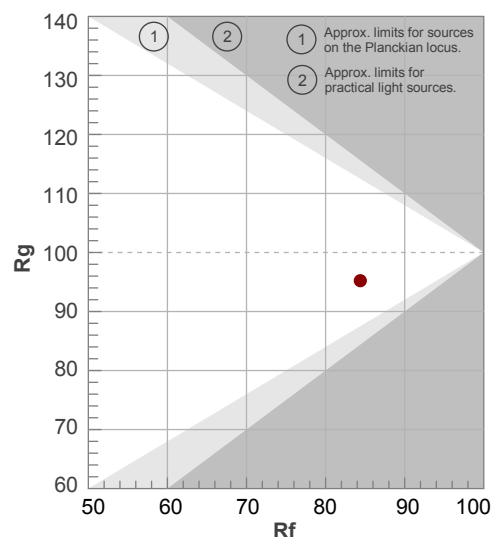
Rf 84,4

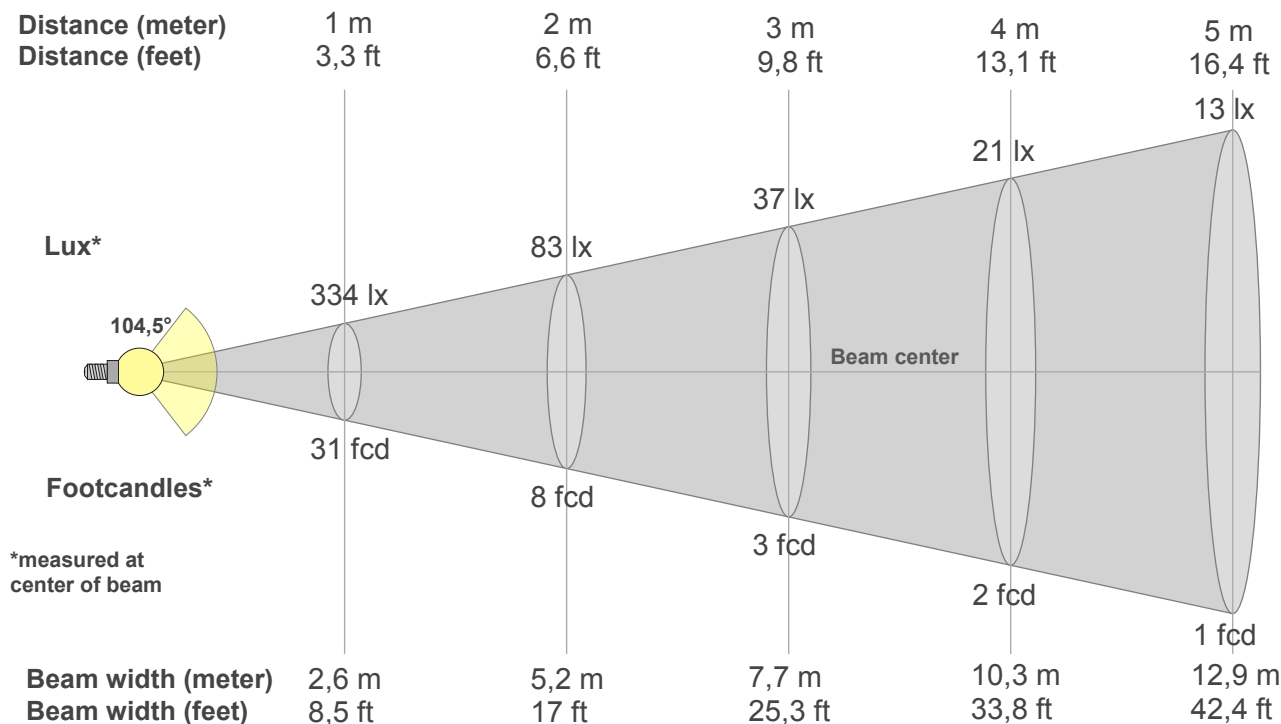
Fidelity index Rf

Rg 95,2

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	80	-12%	-1%
2	84	-7%	6%
3	79	-4%	11%
4	88	0%	6%
5	91	0%	3%
6	95	1%	-2%
7	92	-4%	-3%
8	90	-6%	0%
9	87	-7%	6%
10	78	-6%	12%
11	79	3%	14%
12	84	6%	6%
13	85	7%	-7%
14	88	5%	-8%
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
334lx	83lx	37lx	21lx	13lx	9lx	7lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx
31fcd	7,7fcd	3,4fcd	1,9fcd	1,2fcd	0,9fcd	0,6fcd	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°
334	333	328	319	308	292	273	250	226	202	178	155	137	121	106	88	70	52	22	21
100%	100%	98%	96%	92%	88%	82%	75%	68%	61%	53%	47%	41%	36%	32%	26%	21%	16%	7%	6%

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°
334	332	328	321	312	299	283	263	238	209	180	150	118	89	64	42	25	12	1	0
100%	100%	98%	96%	93%	90%	85%	79%	71%	63%	54%	45%	35%	27%	19%	13%	7%	3%	0%	0%

Intensities in 180° c-plane

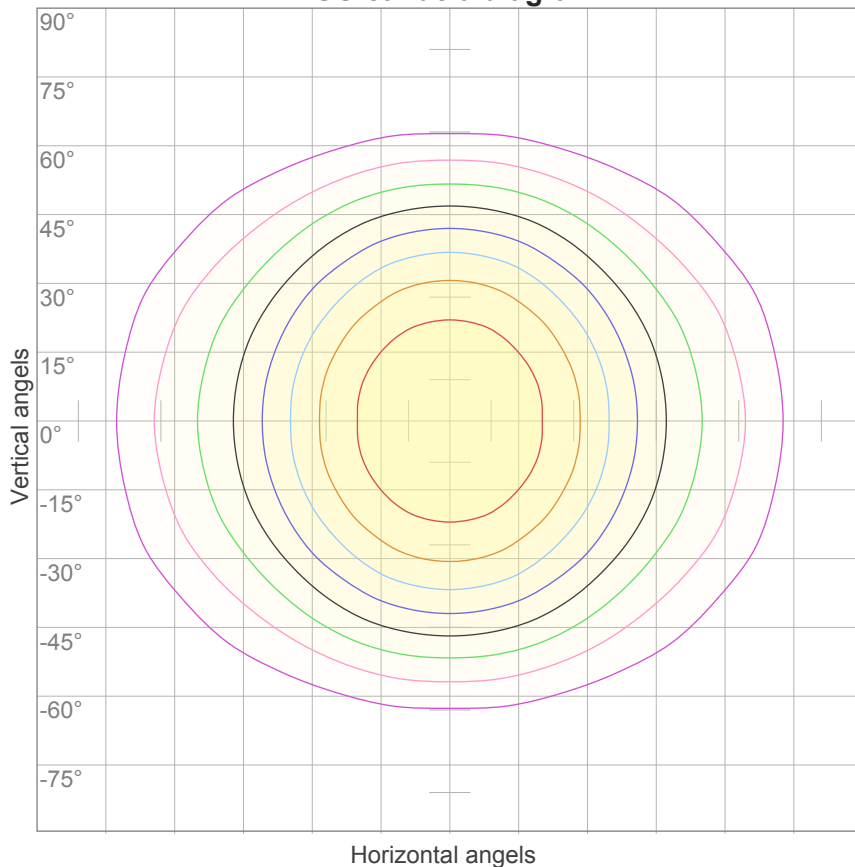
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
334	333	328	319	308	292	273	250	226	202	178	155	137	121	106	88	70	52	22	21
100%	100%	98%	96%	92%	88%	82%	75%	68%	61%	53%	47%	41%	36%	32%	26%	21%	16%	7%	6%

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°
334	332	328	321	312	299	283	263	238	209	180	150	118	89	64	42	25	12	1	0
100%	100%	98%	96%	93%	90%	85%	79%	71%	63%	54%	45%	35%	27%	19%	13%	7%	3%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
104,5°	164,3°	208,6°	73,5%	51,4%

ISO candela diagram



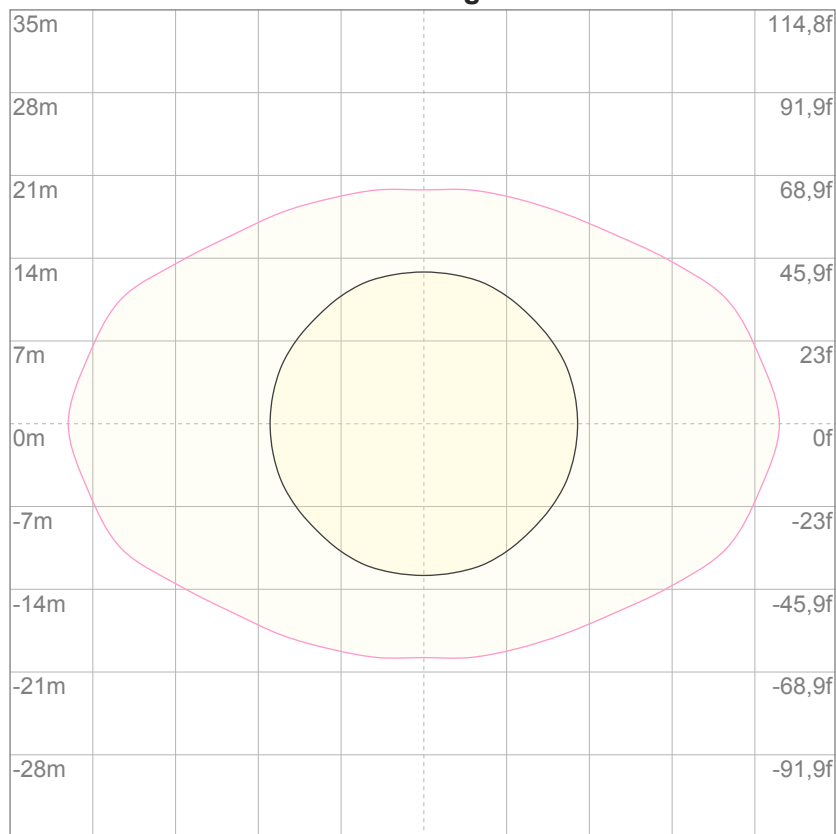
10%	33 cd
20%	67 cd
30%	100 cd
40%	133 cd
50%	167 cd
60%	200 cd
70%	234 cd
80%	267 cd
90%	300 cd

Conditions:

Number of c-planes: 16

Candela at center: 334 cd

ISO lux diagram



3%	0,100 lx
5%	0,167 lx
10%	0,334 lx
30%	1,00 lx
50%	1,67 lx

Conditions:

Number of c-planes: 16

Lux at center: 3,34 lx

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

Glare Evaluation According to UGR

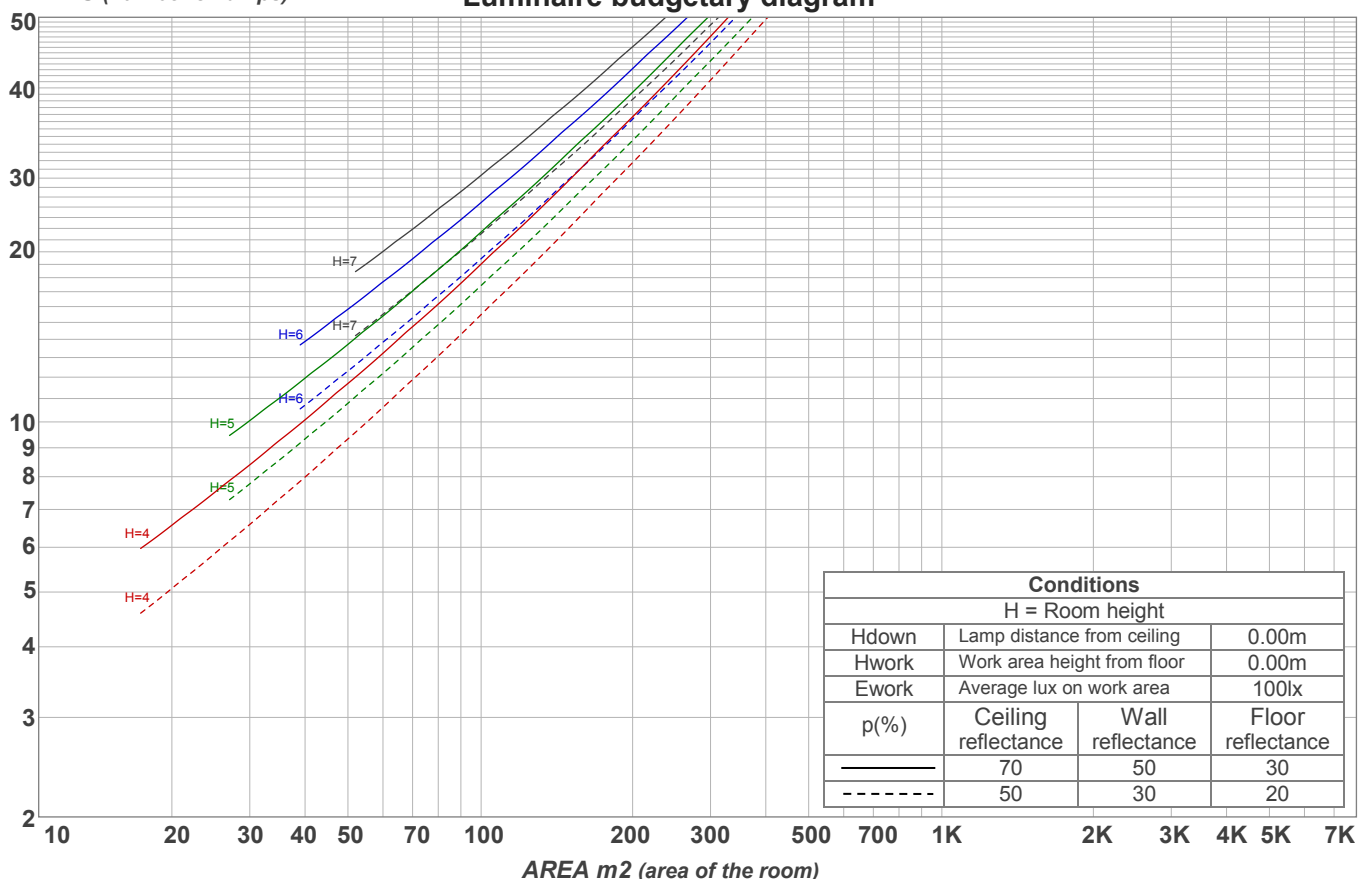
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	21,7	22,9	21,9	23,2	23,5	22,3	23,6	22,6	23,9	24,1
	3H	23,2	24,5	23,6	24,8	25,0	23,4	24,7	23,8	25,0	25,2
	4H	24,0	25,2	24,4	25,5	25,8	23,9	25,1	24,3	25,4	25,6
	6H	24,7	25,8	25,1	26,1	26,5	24,3	25,4	24,6	25,6	26,0
	8H	25,0	26,1	25,4	26,4	26,8	24,4	25,4	24,7	25,7	26,1
	12H	25,2	26,3	25,6	26,6	27,1	24,4	25,4	24,8	25,8	26,2
4H	2H	22,2	23,5	22,6	23,7	24,0	22,7	23,9	23,1	24,2	24,5
	3H	24,1	25,1	24,5	25,5	25,9	24,1	25,2	24,5	25,5	26,0
	4H	24,9	25,9	25,4	26,3	26,9	24,6	25,6	25,1	26,0	26,6
	6H	25,8	26,7	26,3	27,1	27,4	25,1	26,0	25,6	26,4	26,7
	8H	26,1	27,0	26,6	27,3	27,7	25,2	26,1	25,7	26,4	26,8
	12H	26,5	27,2	27,0	27,6	28,1	25,3	26,0	25,8	26,5	27,0
8H	4H	25,2	26,1	25,7	26,4	26,8	25,0	25,8	25,5	26,2	26,5
	6H	26,3	26,9	26,8	27,4	27,9	25,6	26,2	26,1	26,7	27,2
	8H	26,8	27,3	27,3	27,9	28,5	25,8	26,4	26,3	26,9	27,6
	12H	27,2	27,7	27,8	28,2	28,8	26,0	26,5	26,6	27,0	27,6
12H	4H	25,2	25,9	25,7	26,4	26,8	25,0	25,7	25,5	26,1	26,6
	6H	26,4	26,9	26,9	27,4	28,1	25,7	26,3	26,2	26,8	27,4
	8H	26,9	27,4	27,5	27,9	28,5	26,0	26,5	26,6	27,0	27,6
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,1					0,1 / -0,1				
S = 1.5H		0,1 / -0,2					0,3 / -0,3				
S = 2.0H		0,3 / -0,4					0,7 / -0,8				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 967 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	103	103	103	98	98	98	96
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	85	83	81	79
2	97	89	81	75	94	86	80	74	82	77	72	78	74	70	75	71	68	65
3	89	78	69	63	86	76	68	62	72	66	60	69	63	59	66	61	57	55
4	81	69	60	53	78	67	59	53	64	57	51	62	55	50	59	54	49	47
5	75	62	53	46	72	60	52	45	58	50	45	55	49	44	53	47	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	38	48	42	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	31	44	36	31	42	35	31	41	35	30	28
9	56	42	34	28	54	42	34	28	40	33	28	39	32	28	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

LAMPS (number of lamps)

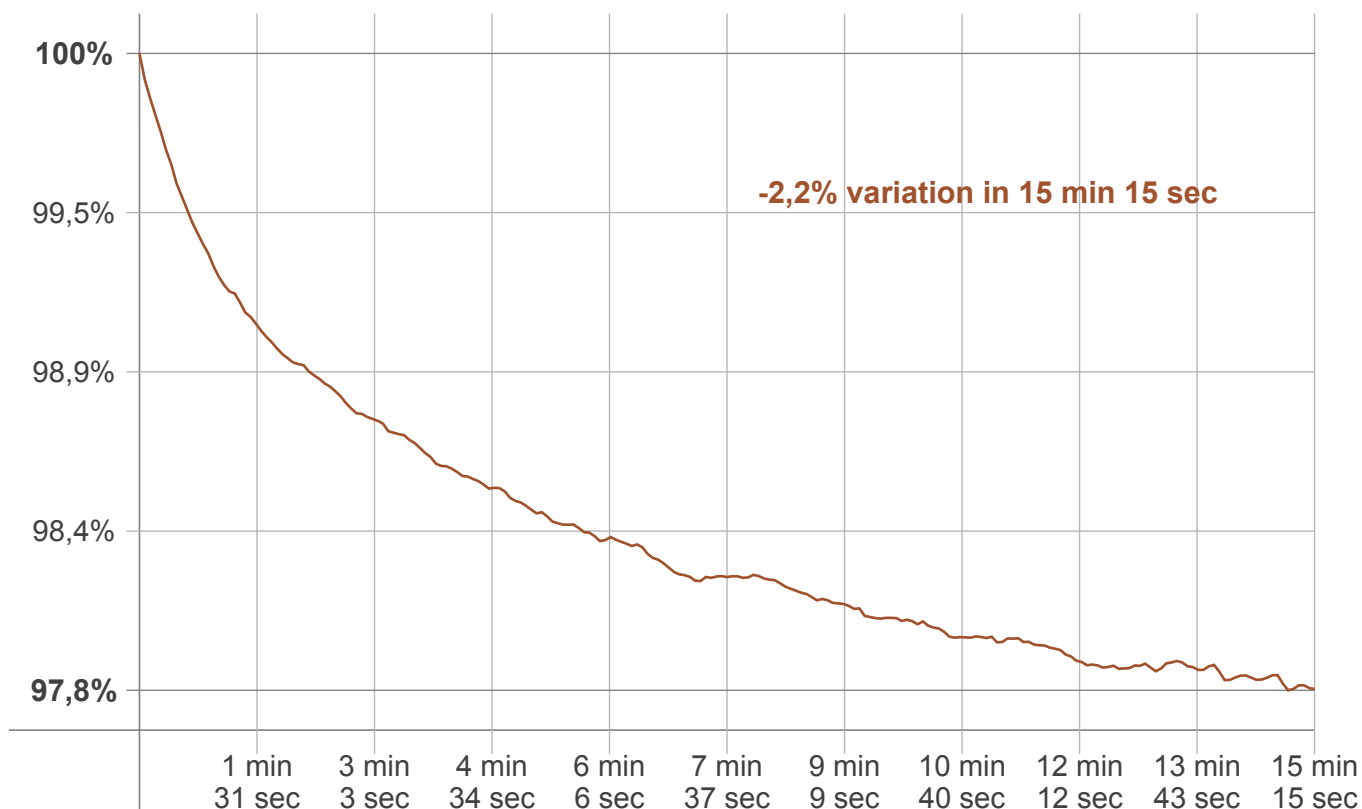
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
31,2 lm	87,5 lm	137 lm	159 lm	160 lm	136 lm	107 lm	71,3 lm	40,2 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
5,49 lm	9,56 lm	3,36 lm	3,04 lm	1,42 lm	0,407 lm	0,300 lm	0,184 lm	14,1 lm

Warmup curve



Warmup result

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

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
4032 K	+14 K	4046 K

Output change

Output start	Output change	Output end
984 lm	-18 lm	967 lm