

Light efficiency:

87 Lumen/Watt

Light quality:

CRI: 92,4

Color temperature:

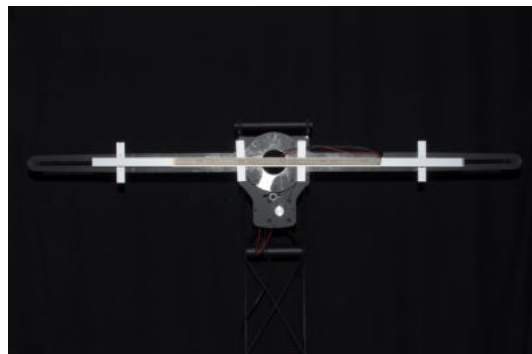
3041 K

Output: 880 lm

Peak: 307 cd

Power: 10,1 W

PF: 1,0



Product name:

Pegasus-3-Gold-0508-930-CFT

Item number:

FLNP/L/16A0508/930/CFT

Date and time:

05.05.2021 09:40:13

Description:

Rank: M27ZT

Toleranzen:

Lumen +/-4%

Candela +/-2,5%

Colour Temp +/-35 Grad K

CRI +/-0,7

Angular Resolution 1 Grad step

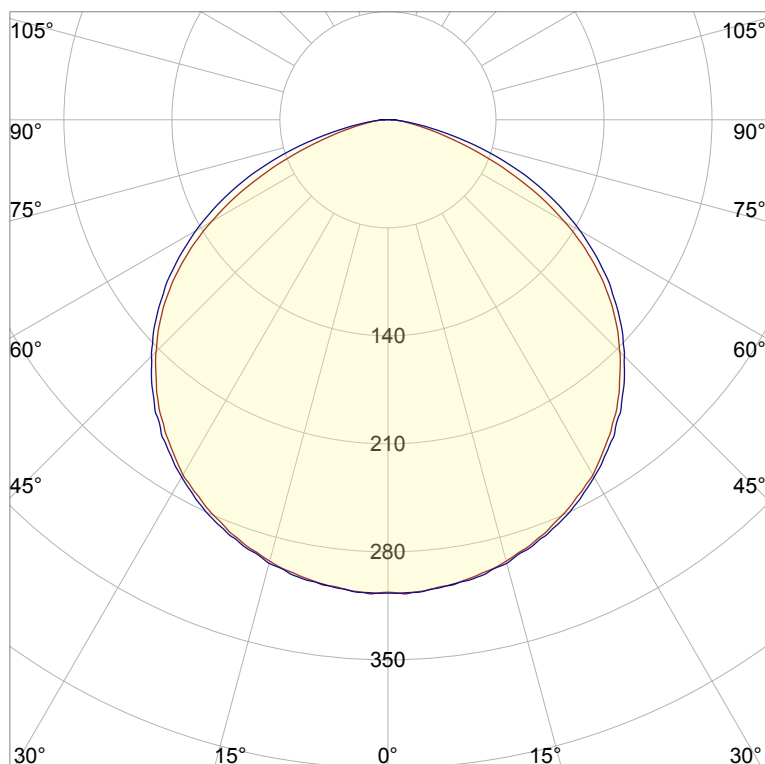
Last Calibration 20-05-2020

Pruefer: Peter Ulrich

Pruefort: Lichtlabor

Gaustrasse13-15

55411 Bingen am Rhein

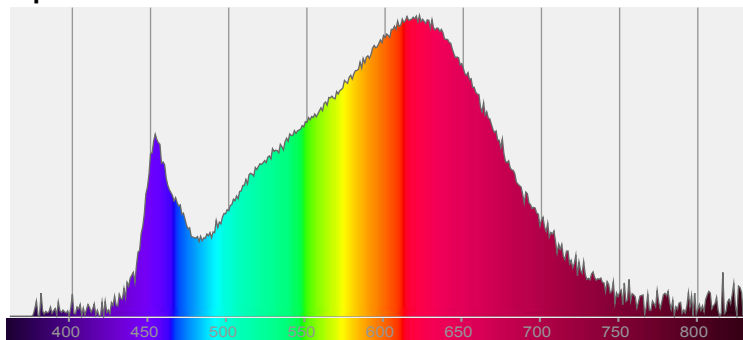


CIE 1931

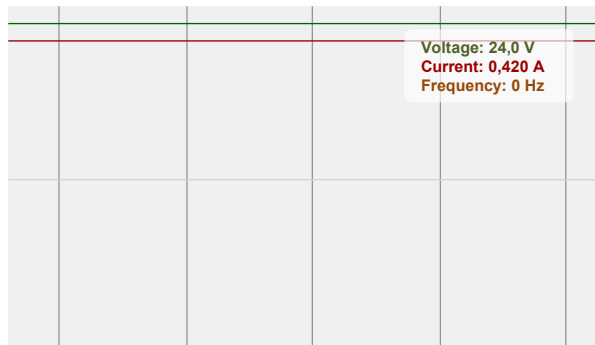
x: 0,432

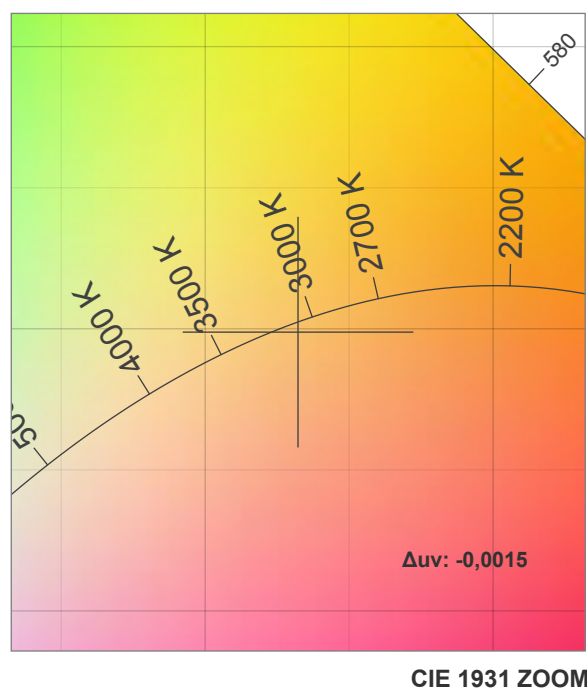
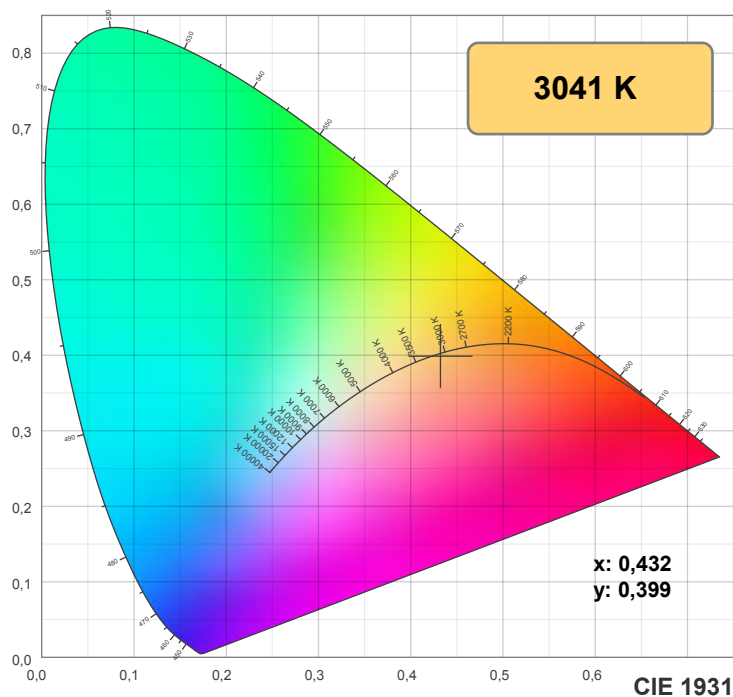
y: 0,399

Spectra

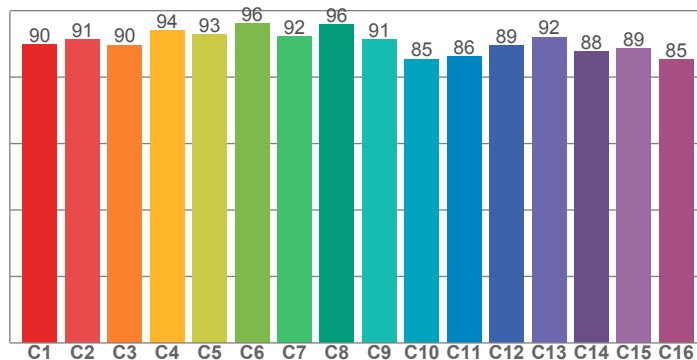


Power

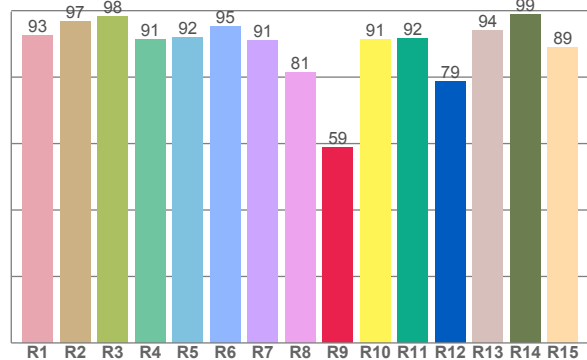




TM30: 90,6



CRI: 92,4 (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
92,7	96,9	98,2	91,4	92,1	95,2	91,2	81,3	58,9	91,2	91,6	78,6	94,0	98,8	89,1

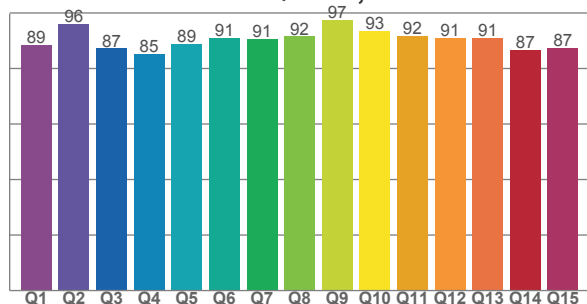
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,8	91,3	89,6	93,9	92,9	96,1	92,1	95,9	91,4	85,5	86,3	89,4	92,0	87,6	88,5	85,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88,5	95,9	87,2	85,3	88,8	90,9	90,8	91,5	97,5	93,5	91,7	91,0	91,0	86,7	87,3

CQS: 89,9



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
3041 K	92,4	58,9	90,6	98,5	89,9	0,432	0,399	0,250	0,346	-0,0015

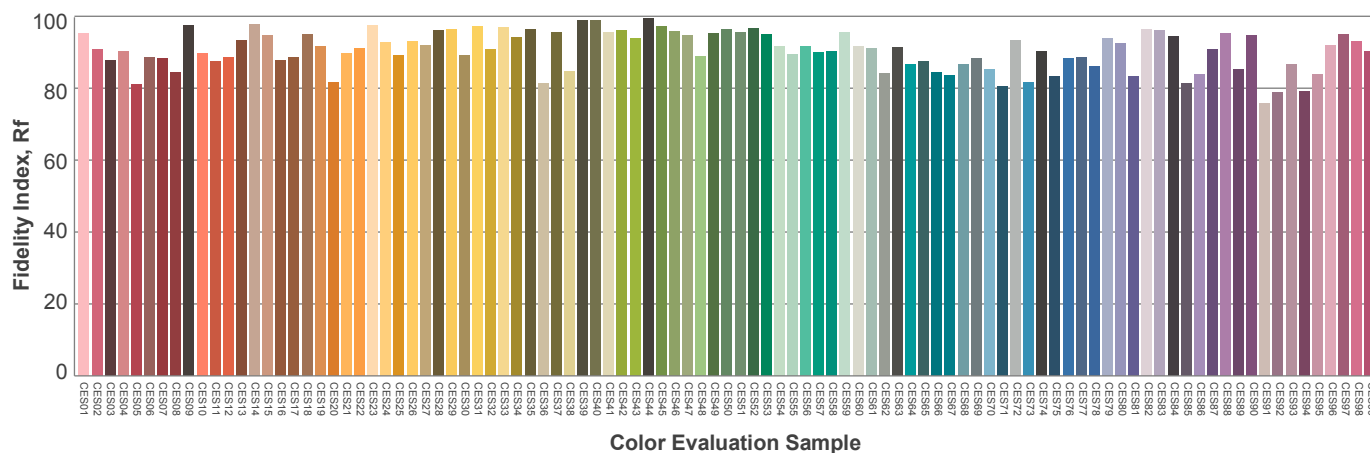
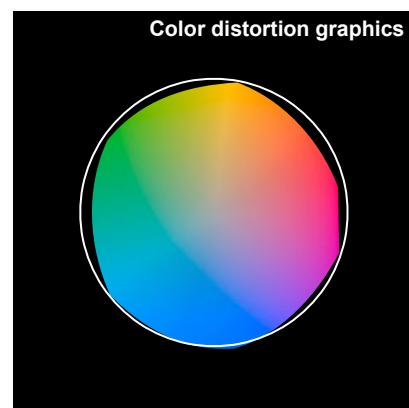
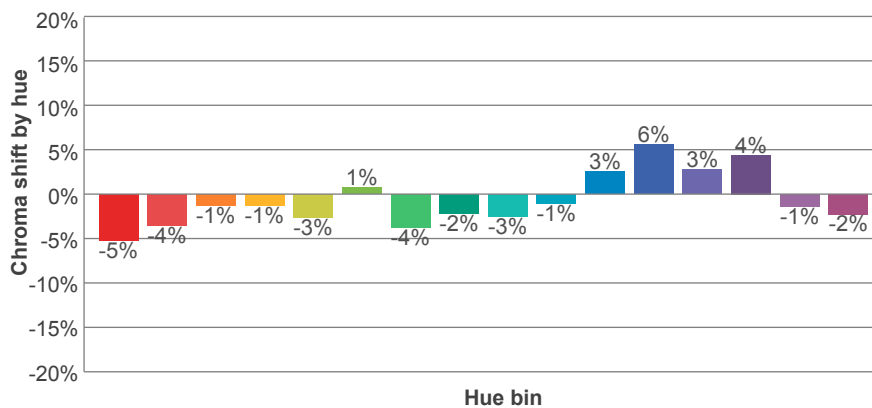
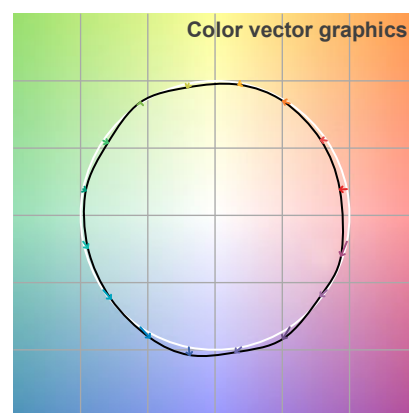
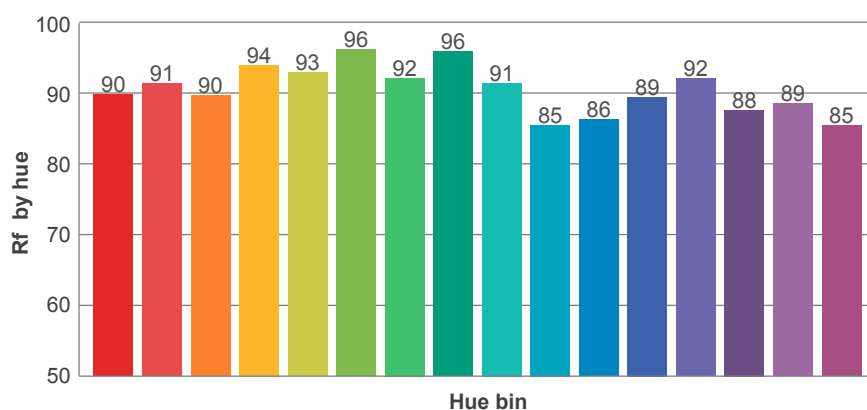
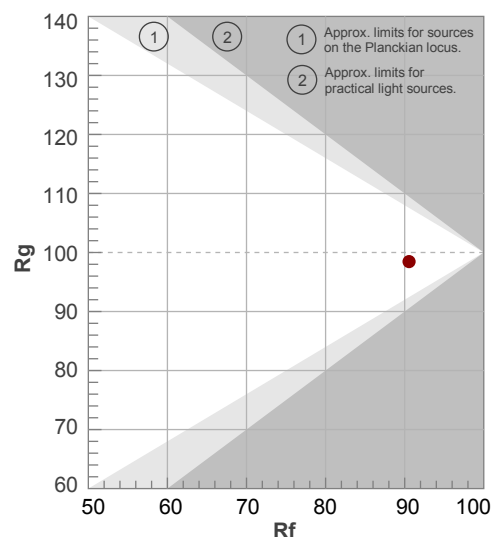
Rf 90,6

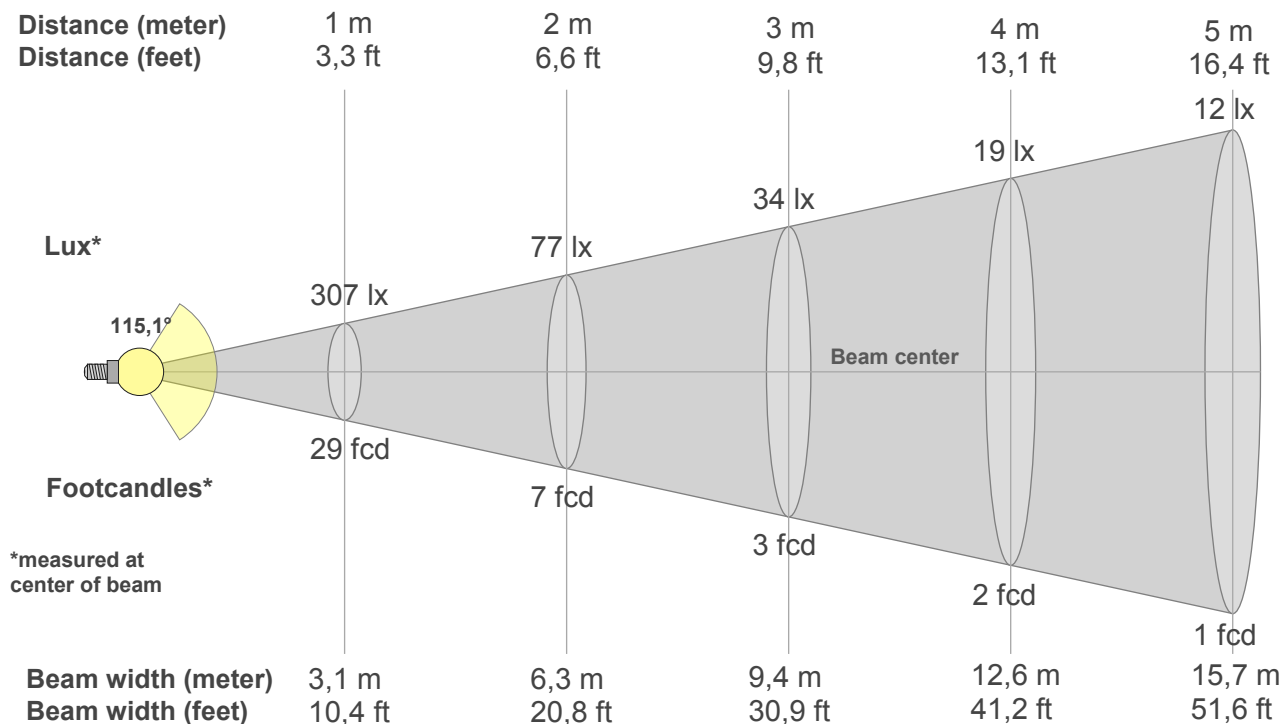
Fidelity index Rf

Rg 98,5

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	1%
2	91	-4%	3%
3	90	-1%	5%
4	94	-1%	2%
5	93	-3%	2%
6	96	1%	-1%
7	92	-4%	-1%
8	96	-2%	1%
9	91	-3%	5%
10	85	-1%	8%
11	86	3%	10%
12	89	6%	2%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-6%
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
307lx	77lx	34lx	19lx	12lx	9lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx
28,5fcd	7,1fcd	3,2fcd	1,8fcd	1,1fcd	0,8fcd	0,6fcd	0,4fcd	0,4fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	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°
307	306	302	296	288	277	266	250	233	212	190	163	132	97	63	35	17	8	3	0
100%	100%	98%	96%	94%	90%	87%	81%	76%	69%	62%	53%	43%	32%	20%	11%	5%	2%	1%	0%

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°
307	306	303	298	289	280	267	253	236	217	195	171	144	114	82	50	24	9	1	1
100%	100%	99%	97%	94%	91%	87%	82%	77%	71%	64%	56%	47%	37%	27%	16%	8%	3%	0%	0%

Intensities in 180° c-plane

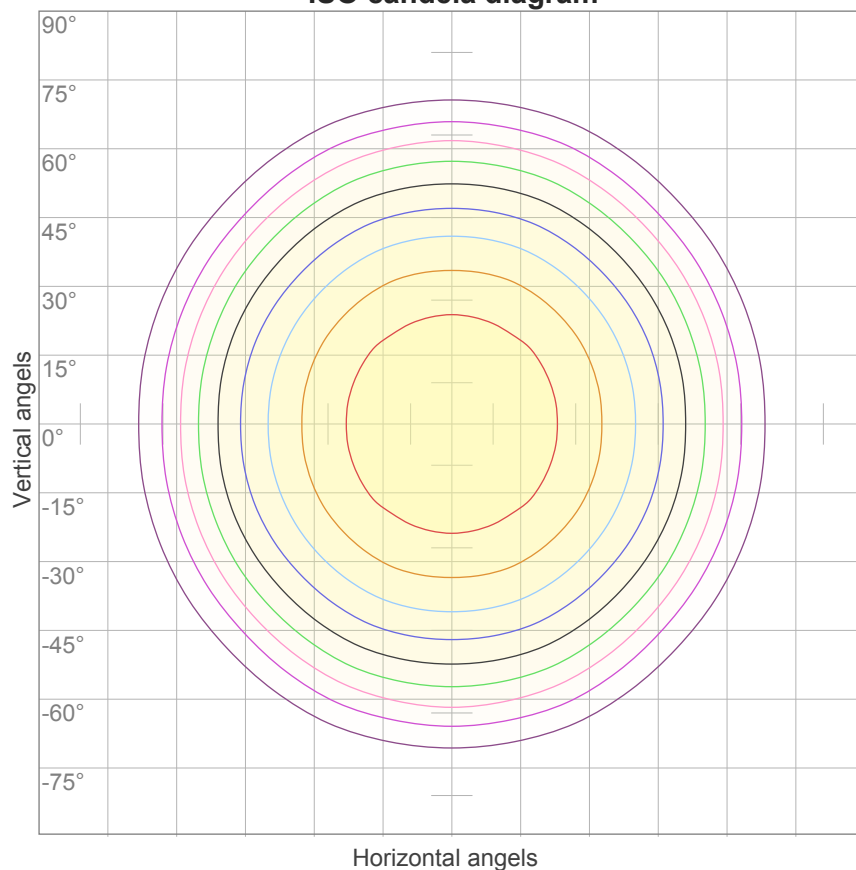
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
307	306	302	296	288	277	266	250	233	212	190	163	132	97	63	35	17	8	3	0
100%	100%	98%	96%	94%	90%	87%	81%	76%	69%	62%	53%	43%	32%	20%	11%	5%	2%	1%	0%

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°
307	306	303	298	289	280	267	253	236	217	195	171	144	114	82	50	24	9	1	1
100%	100%	99%	97%	94%	91%	87%	82%	77%	71%	64%	56%	47%	37%	27%	16%	8%	3%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
115,1°	154,5°	171,1°	81,1%	54,8%

ISO candela diagram



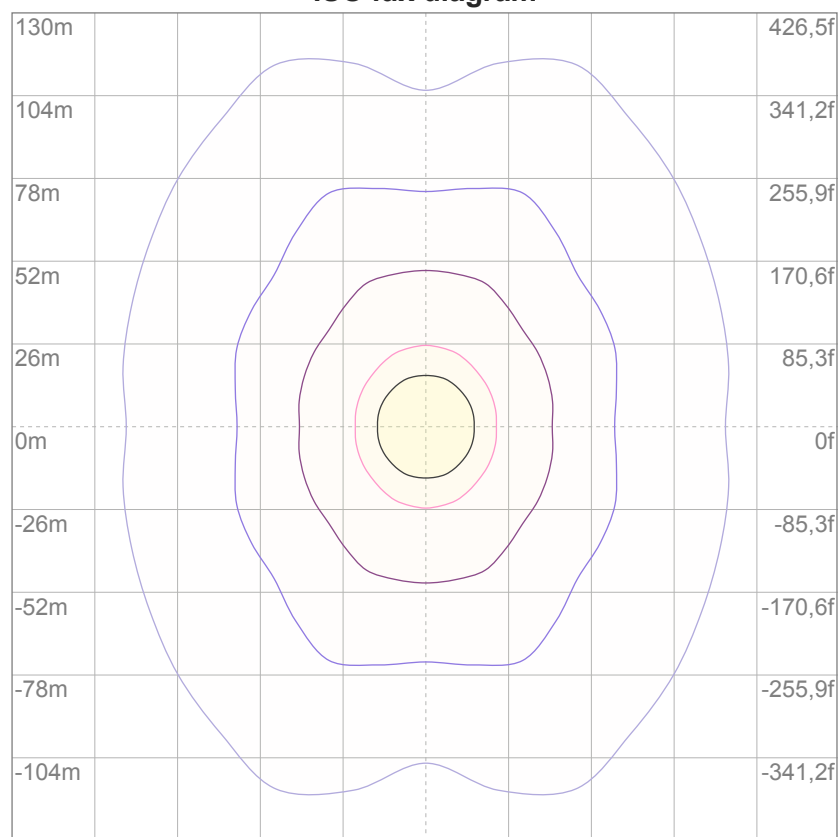
10%	31 cd
20%	61 cd
30%	92 cd
40%	123 cd
50%	153 cd
60%	184 cd
70%	215 cd
80%	245 cd
90%	276 cd

Conditions:

Number of c-planes: 16

Candela at center: 307 cd

ISO lux diagram



3%	92,1m lx
5%	0,153 lx
10%	0,307 lx
30%	0,921 lx
50%	1,53 lx

Conditions:

Number of c-planes: 16

Lux at center: 3,07 lx

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

Glare Evaluation According to UGR

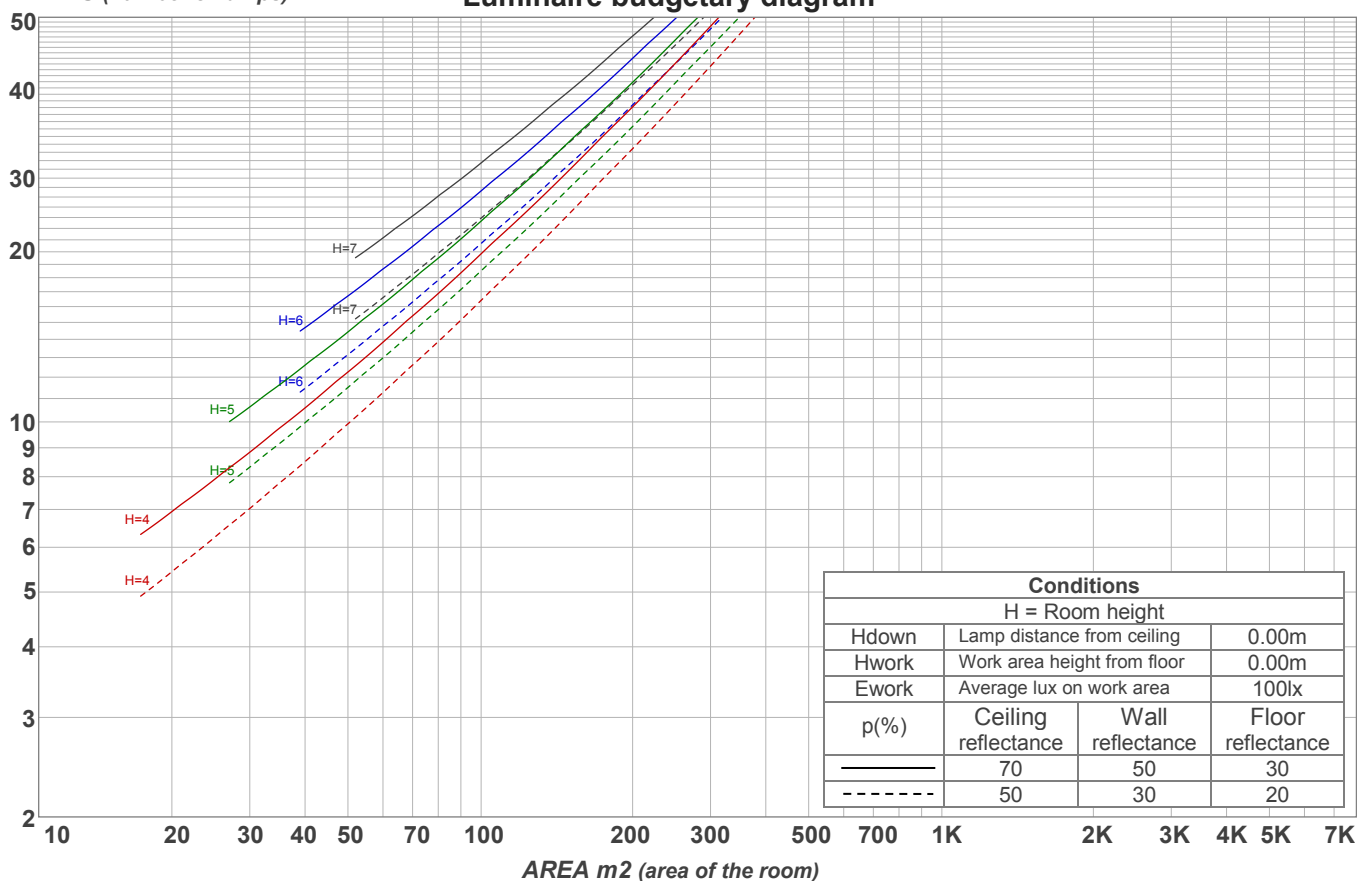
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	23,0	24,2	23,3	24,5	24,8	23,9	25,1	24,1	25,4	25,6
	3H	23,8	25,1	24,2	25,4	25,6	25,1	26,4	25,6	26,7	26,9
	4H	24,0	25,2	24,4	25,5	25,7	25,6	26,8	26,0	27,0	27,3
	6H	24,2	25,2	24,5	25,5	25,8	25,9	26,9	26,2	27,2	27,6
	8H	24,1	25,1	24,5	25,4	25,9	25,9	26,9	26,2	27,2	27,6
	12H	24,1	25,1	24,5	25,4	25,9	25,9	26,9	26,3	27,2	27,6
4H	2H	23,6	24,8	24,0	25,0	25,3	24,2	25,4	24,7	25,7	26,0
	3H	24,6	25,6	25,0	25,9	26,4	25,8	26,8	26,2	27,1	27,6
	4H	24,8	25,7	25,3	26,1	26,7	26,2	27,1	26,7	27,5	28,1
	6H	24,9	25,8	25,4	26,1	26,5	26,5	27,4	27,0	27,7	28,1
	8H	24,9	25,7	25,4	26,1	26,4	26,6	27,4	27,1	27,7	28,1
	12H	24,9	25,6	25,4	26,0	26,4	26,6	27,2	27,1	27,7	28,1
8H	4H	25,0	25,7	25,5	26,1	26,5	26,3	27,1	26,8	27,4	27,8
	6H	25,1	25,7	25,6	26,2	26,7	26,6	27,2	27,1	27,7	28,2
	8H	25,2	25,7	25,7	26,2	26,8	26,8	27,3	27,3	27,8	28,4
	12H	25,2	25,6	25,8	26,1	26,7	26,8	27,3	27,4	27,8	28,4
12H	4H	24,9	25,6	25,4	26,0	26,5	26,2	26,9	26,7	27,3	27,8
	6H	25,2	25,7	25,7	26,2	26,8	26,7	27,2	27,2	27,7	28,3
	8H	25,2	25,6	25,8	26,1	26,7	26,8	27,2	27,3	27,7	28,3
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,2 / -0,2					0,1 / -0,1				
S = 1.5H		0,4 / -0,6					0,2 / -0,3				
S = 2.0H		1,0 / -1,5					0,7 / -1,0				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 880 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	99
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

LAMPS (number of lamps)

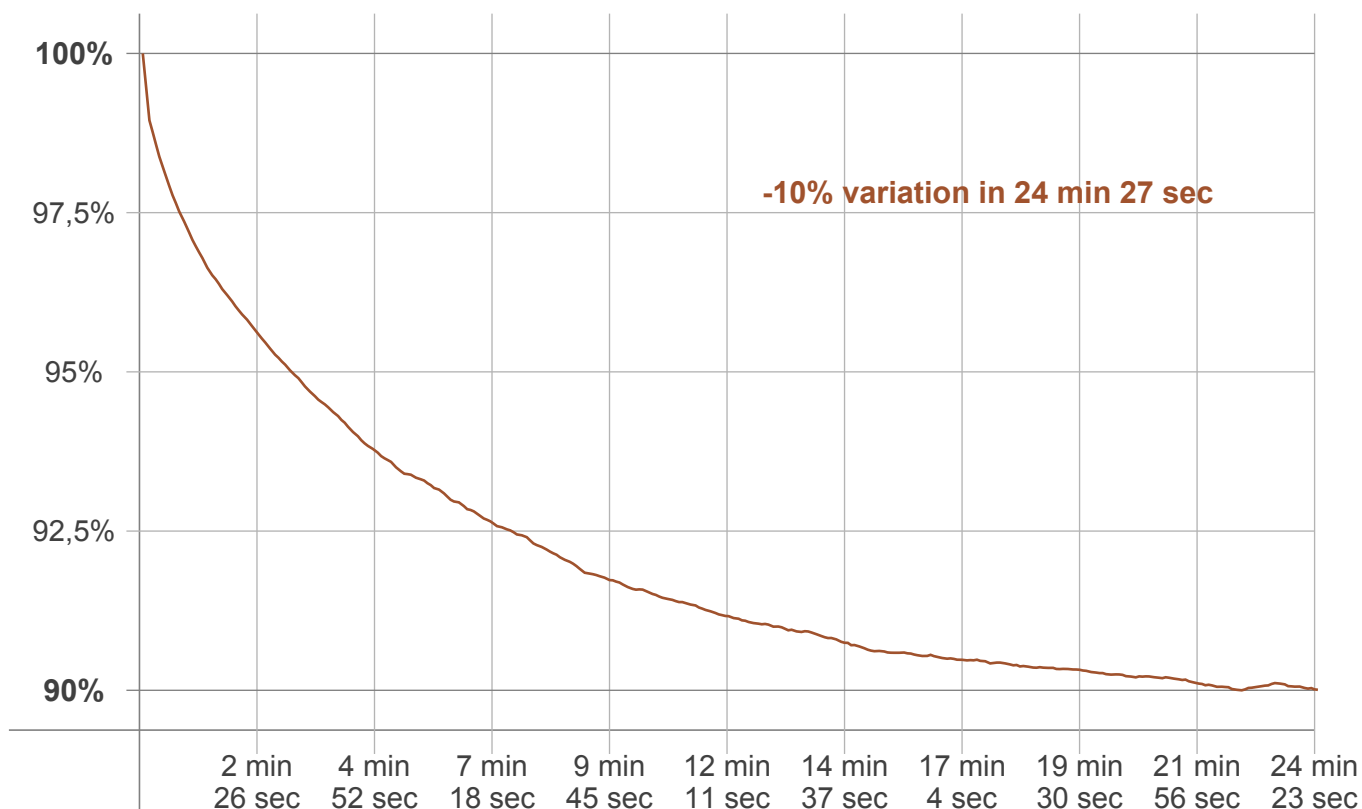
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
29,1 lm	83,7 lm	128 lm	158 lm	166 lm	150 lm	105 lm	45,9 lm	10,4 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1,64 lm	0,780 lm	0,656 lm	0,593 lm	0,448 lm	0,319 lm	0,235 lm	0,144 lm	0,049 lm

Warmup curve



Warmup result

Warmup time:	24 min 27 sec
Warmup variation	-11,1%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
3058 K	-17 K	3041 K

Output change

Output start	Output change	Output end
928 lm	-48 lm	880 lm