

Light efficiency:

82 Lumen/Watt

Light quality:

CRI: 92,2

Color temperature:

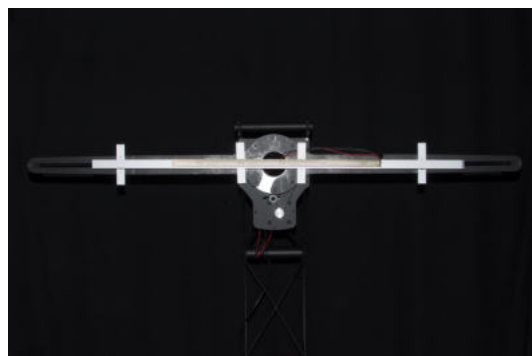
3016 K

Output: 828 lm

Peak: 294 cd

Power: 10,1 W

PF: 1,0



Product name:

Pegasus-3-Gold-0508-930-CSF

Item number:

FLNP/L/16A0508/930/CSF

Date and time:

04.05.2021 15:55:03

Description:

Rank: M27ZT

Toleranzen:

Lumen +/-4%

Candela +/-2,5%

Colour Temp +/-35 K

CRI +/- 0,7

Angular Resolution 1 Grad step

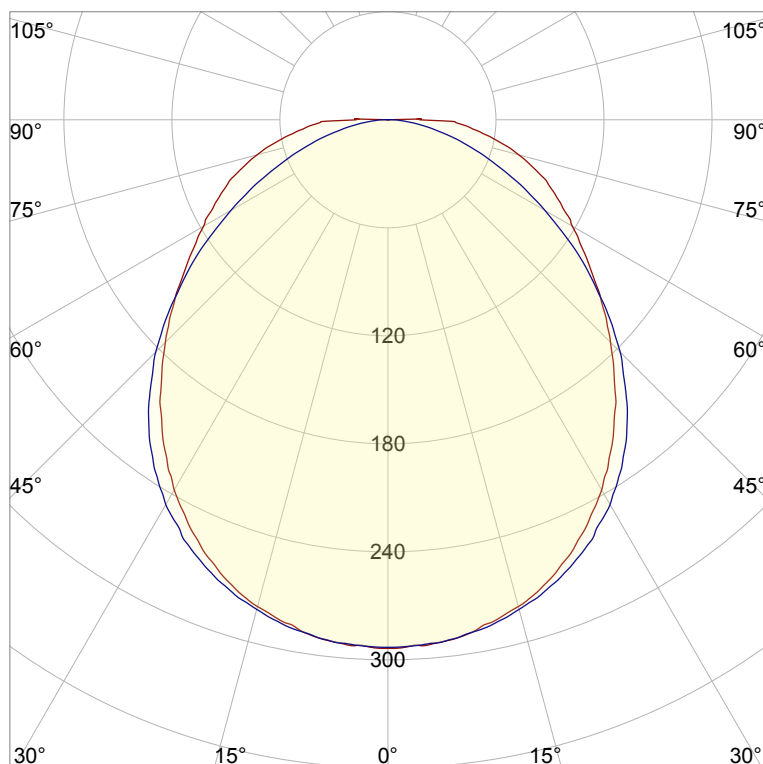
Last Calibration 20-05-2020

Pruefer: Peter Ulrich

Pruefort: Lichtlabor

Gaustrasse13

55411 Bingen am Rhein

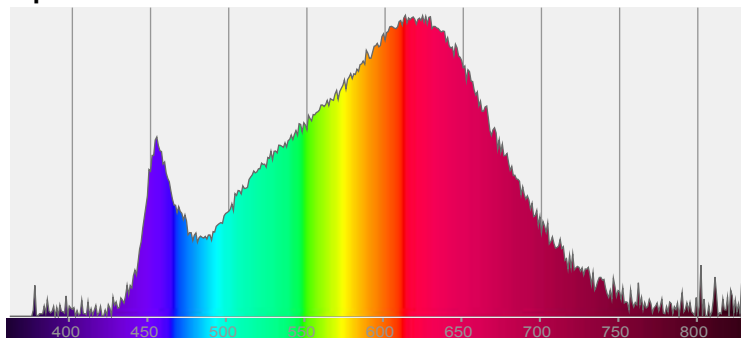


CIE 1931

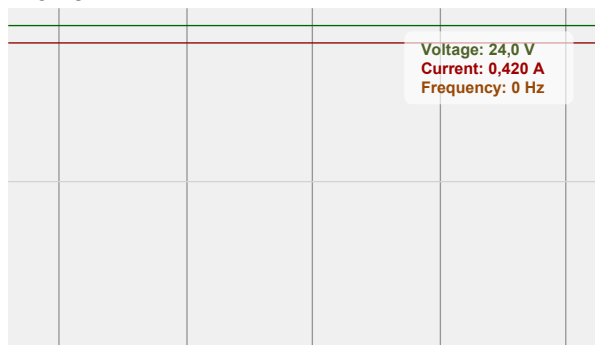
x: 0,434

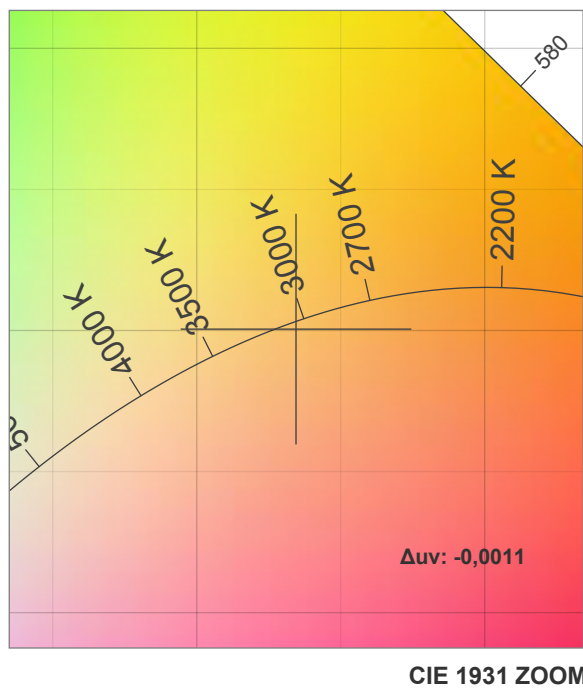
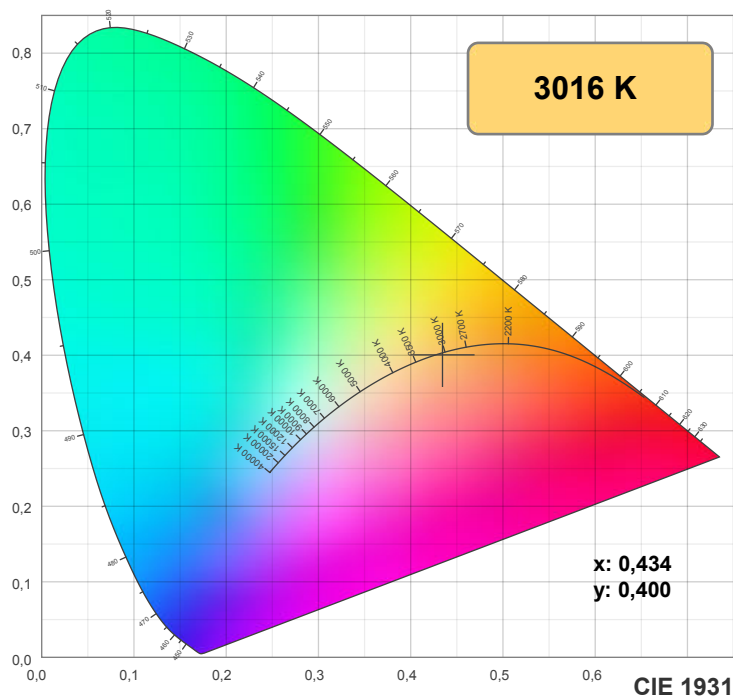
y: 0,400

Spectra

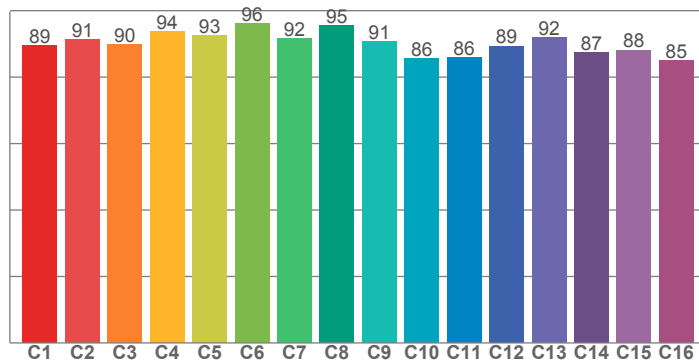


Power

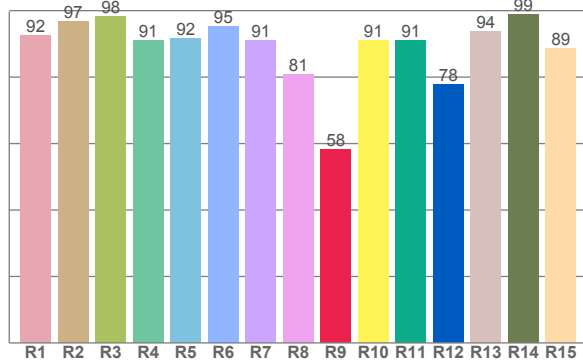




TM30: 90,3



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
92,4	96,8	98,3	91,1	91,8	95,1	91,0	80,9	58,1	91,0	91,1	77,8	93,8	98,8	88,7

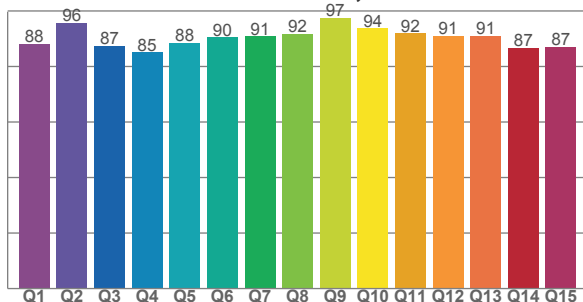
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,4	91,2	89,9	93,7	92,6	96,2	91,6	95,4	90,7	85,7	86,0	89,4	91,8	87,4	88,1	85,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88,2	95,7	87,3	85,0	88,4	90,5	90,8	91,6	97,4	93,7	91,9	91,1	91,1	86,5	87,1

CQS: 89,8



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
3016 K	92,2	58,1	90,3	98,1	89,8	0,434	0,400	0,251	0,346	-0,0011

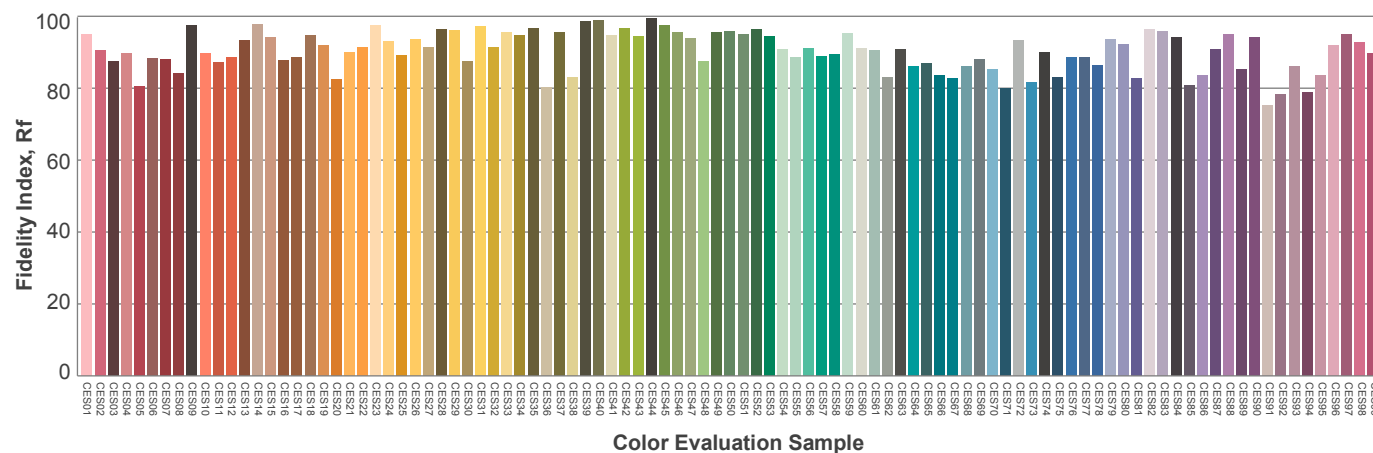
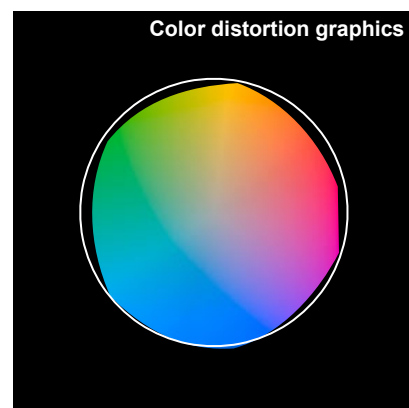
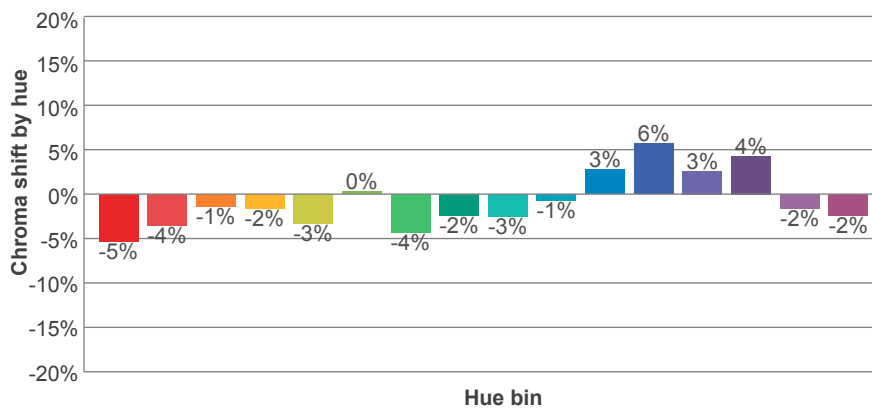
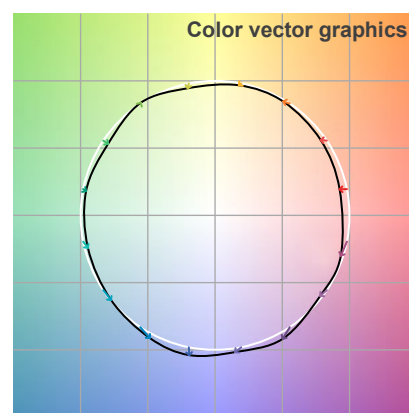
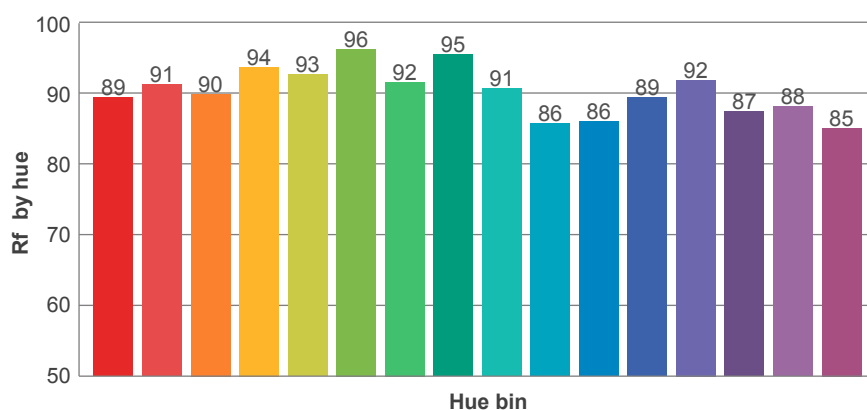
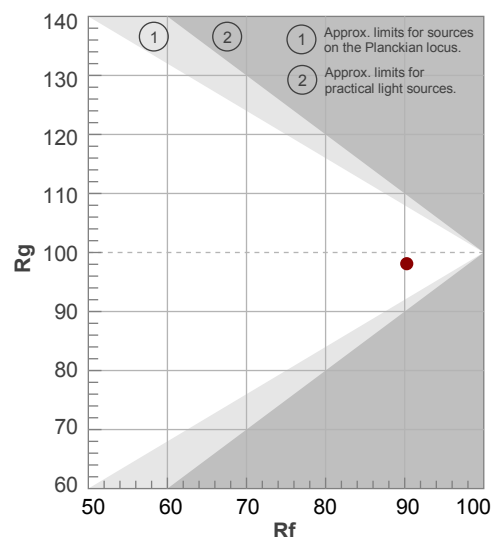
Rf 90,3

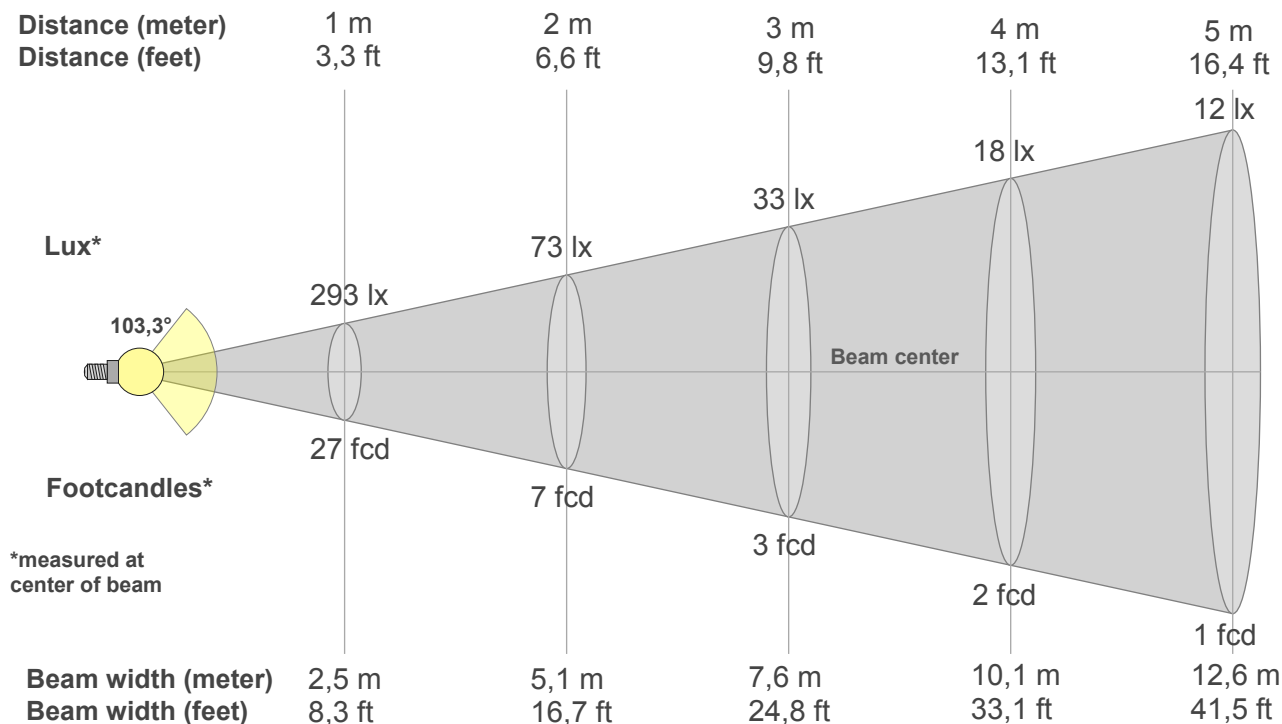
Fidelity index Rf

Rg 98,1

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	0%	-1%
7	92	-4%	0%
8	95	-2%	1%
9	91	-3%	5%
10	86	-1%	9%
11	86	3%	10%
12	89	6%	2%
13	92	3%	-5%
14	87	4%	-9%
15	88	-2%	-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
293lx	73lx	33lx	18lx	12lx	8lx	6lx	5lx	4lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx
27,2fcd	6,8fcd	3fcd	1,7fcd	1,1fcd	0,8fcd	0,6fcd	0,4fcd	0,3fcd	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°
293	292	287	280	269	254	237	218	196	175	154	135	118	104	91	75	59	45	19	0
100%	100%	98%	96%	92%	87%	81%	74%	67%	60%	53%	46%	40%	36%	31%	26%	20%	15%	6%	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°
293	292	288	282	273	261	247	228	207	182	155	128	101	76	55	37	21	9	1	1
100%	100%	98%	96%	93%	89%	84%	78%	71%	62%	53%	44%	34%	26%	19%	13%	7%	3%	0%	0%

Intensities in 180° c-plane

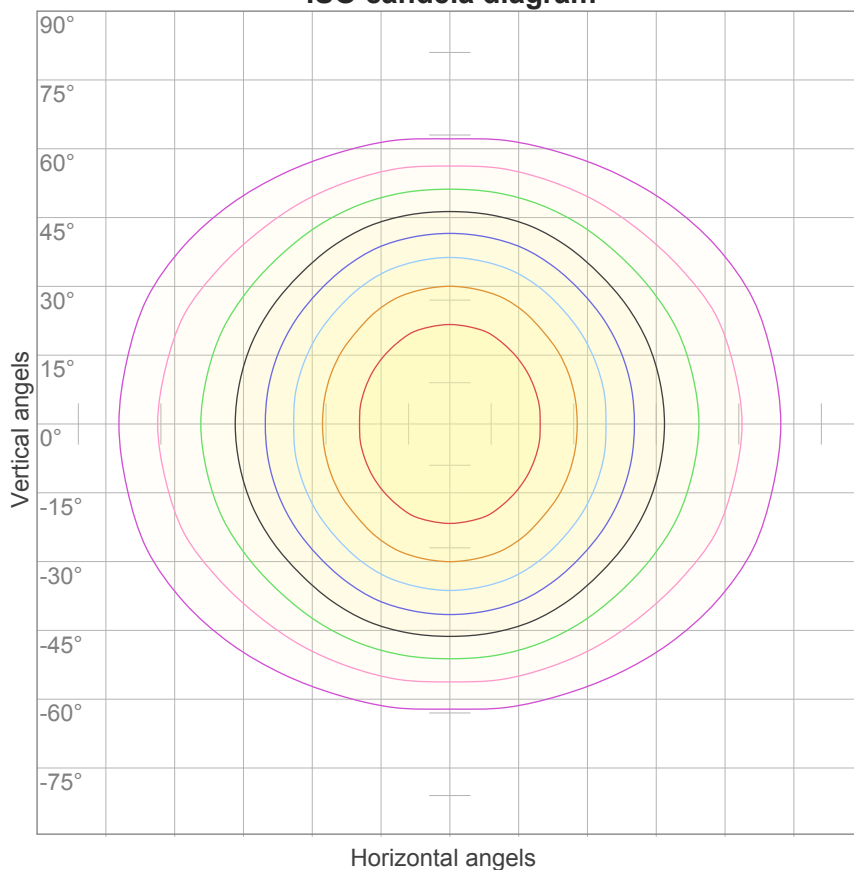
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
293	292	287	280	269	254	237	218	196	175	154	135	118	104	91	75	59	45	19	0
100%	100%	98%	96%	92%	87%	81%	74%	67%	60%	53%	46%	40%	36%	31%	26%	20%	15%	6%	0%

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°
293	292	288	282	273	261	247	228	207	182	155	128	101	76	55	37	21	9	1	1
100%	100%	98%	96%	93%	89%	84%	78%	71%	62%	53%	44%	34%	26%	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
103,3°	169,9°	206,7°	74,8%	52,5%

ISO candela diagram



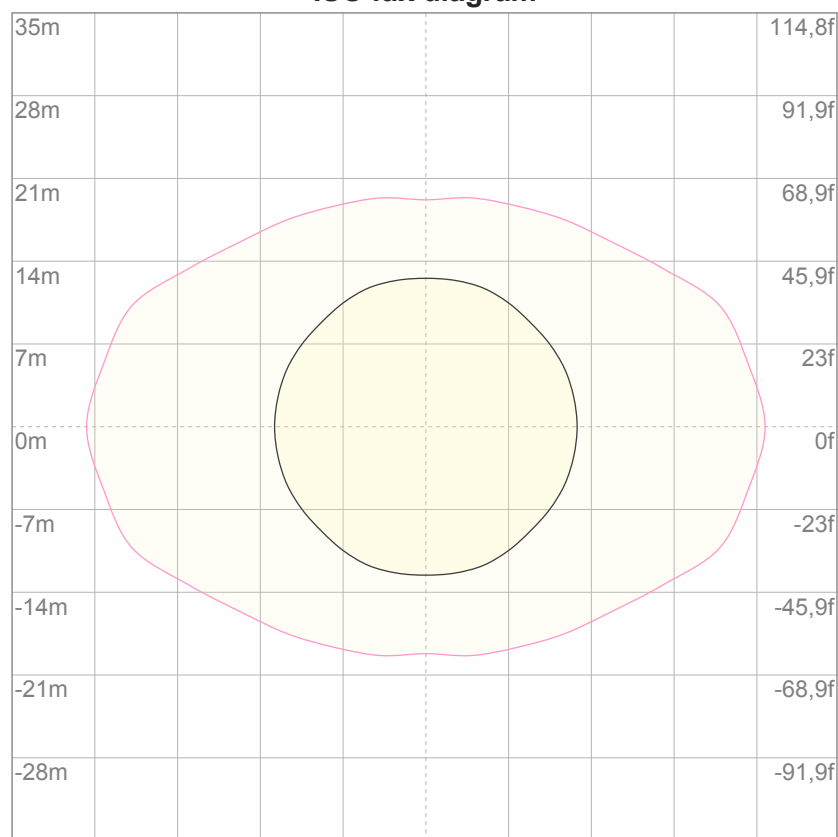
10%	29 cd
20%	59 cd
30%	88 cd
40%	117 cd
50%	146 cd
60%	176 cd
70%	205 cd
80%	234 cd
90%	264 cd

Conditions:

Number of c-planes: 16

Candela at center: 293 cd

ISO lux diagram



3%	87,9m lx
5%	0,146 lx
10%	0,293 lx
30%	0,879 lx
50%	1,46 lx

Conditions:

Number of c-planes: 16

Lux at center: 2,93 lx

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

Glare Evaluation According to UGR

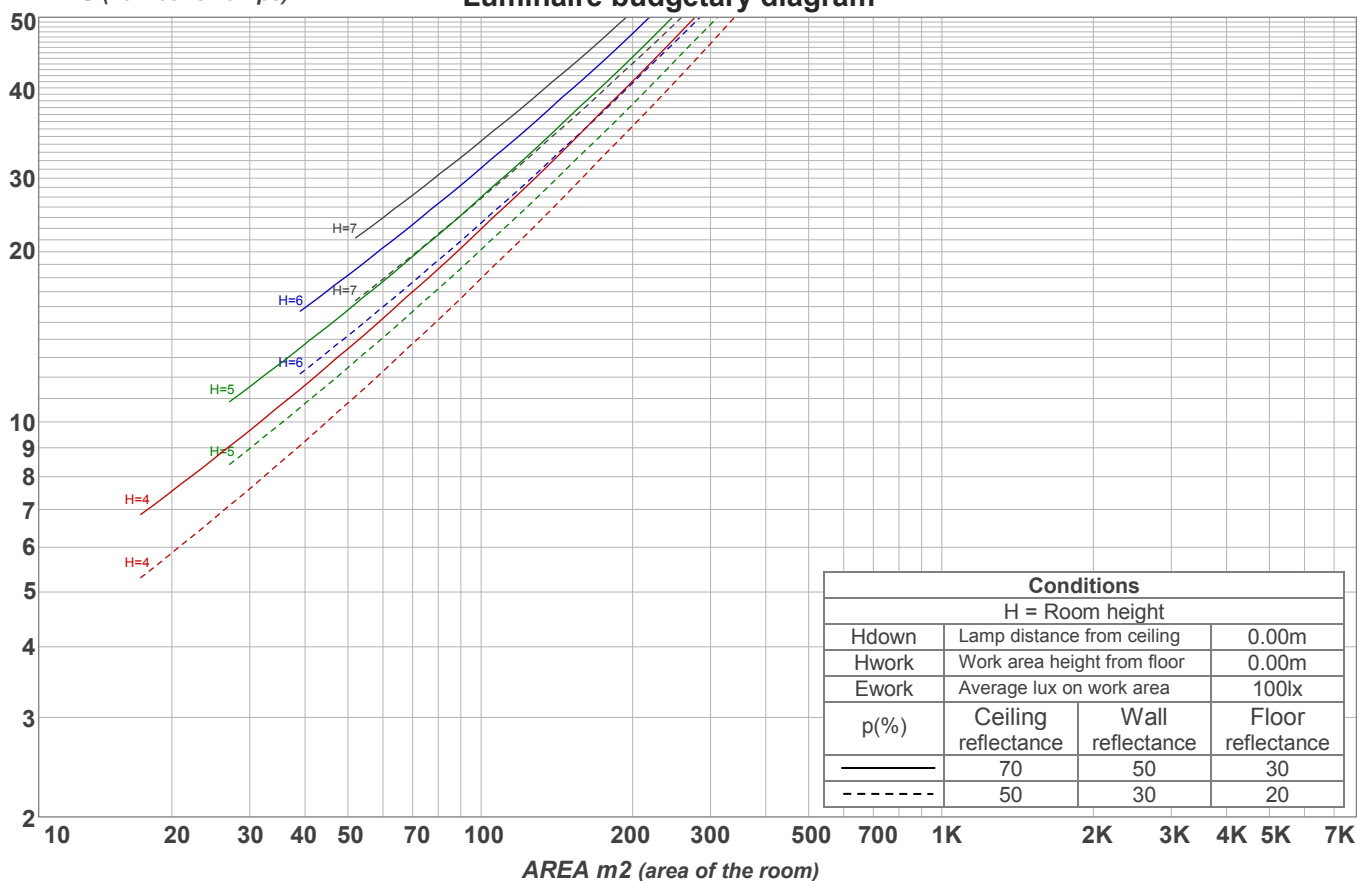
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	21,2	22,4	21,5	22,8	23,0	21,8	23,0	22,0	23,4	23,6
	3H	22,7	24,0	23,1	24,3	24,5	22,9	24,2	23,3	24,5	24,7
	4H	23,5	24,7	23,9	25,0	25,3	23,4	24,6	23,8	24,9	25,1
	6H	24,2	25,3	24,5	25,6	26,0	23,7	24,8	24,1	25,1	25,5
	8H	24,5	25,5	24,8	25,8	26,3	23,8	24,9	24,2	25,2	25,6
	12H	24,7	25,7	25,1	26,1	26,5	23,9	24,9	24,2	25,2	25,7
4H	2H	21,7	23,0	22,2	23,2	23,5	22,2	23,4	22,6	23,7	24,0
	3H	23,6	24,6	24,0	25,0	25,4	23,6	24,6	24,0	25,0	25,4
	4H	24,4	25,4	24,9	25,8	26,4	24,1	25,1	24,6	25,5	26,0
	6H	25,3	26,2	25,8	26,5	26,9	24,6	25,5	25,1	25,8	26,2
	8H	25,6	26,5	26,1	26,8	27,2	24,7	25,5	25,2	25,9	26,3
	12H	25,9	26,6	26,4	27,1	27,5	24,8	25,5	25,3	25,9	26,4
8H	4H	24,7	25,6	25,2	25,9	26,3	24,4	25,3	24,9	25,6	26,0
	6H	25,8	26,4	26,3	26,9	27,4	25,0	25,7	25,5	26,1	26,7
	8H	26,3	26,8	26,8	27,3	28,0	25,3	25,9	25,8	26,4	27,0
	12H	26,7	27,2	27,3	27,7	28,3	25,5	26,0	26,1	26,5	27,1
12H	4H	24,7	25,4	25,2	25,9	26,3	24,5	25,2	25,0	25,6	26,1
	6H	25,8	26,4	26,4	26,9	27,6	25,2	25,7	25,7	26,3	26,9
	8H	26,4	26,9	27,0	27,4	28,0	25,5	25,9	26,0	26,4	27,1
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 / -0,4				
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 828 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	110	110	110	104	104	104	99	99	99	97
1	107	102	98	93	104	100	95	92	95	91	88	90	88	85	86	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	69	63	73	66	61	70	64	60	67	62	58	56
4	82	69	61	54	79	68	60	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	54	48	44	42
6	69	56	47	41	67	55	46	40	53	45	40	51	44	39	49	43	39	36
7	64	51	42	36	63	50	42	36	48	41	35	46	40	35	45	39	34	32
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	41	35	31	29
9	56	43	35	29	55	42	34	29	41	34	29	39	33	28	38	32	28	26
10	53	39	32	26	51	39	31	26	38	31	26	37	30	26	35	30	25	24

LAMPS (number of lamps)

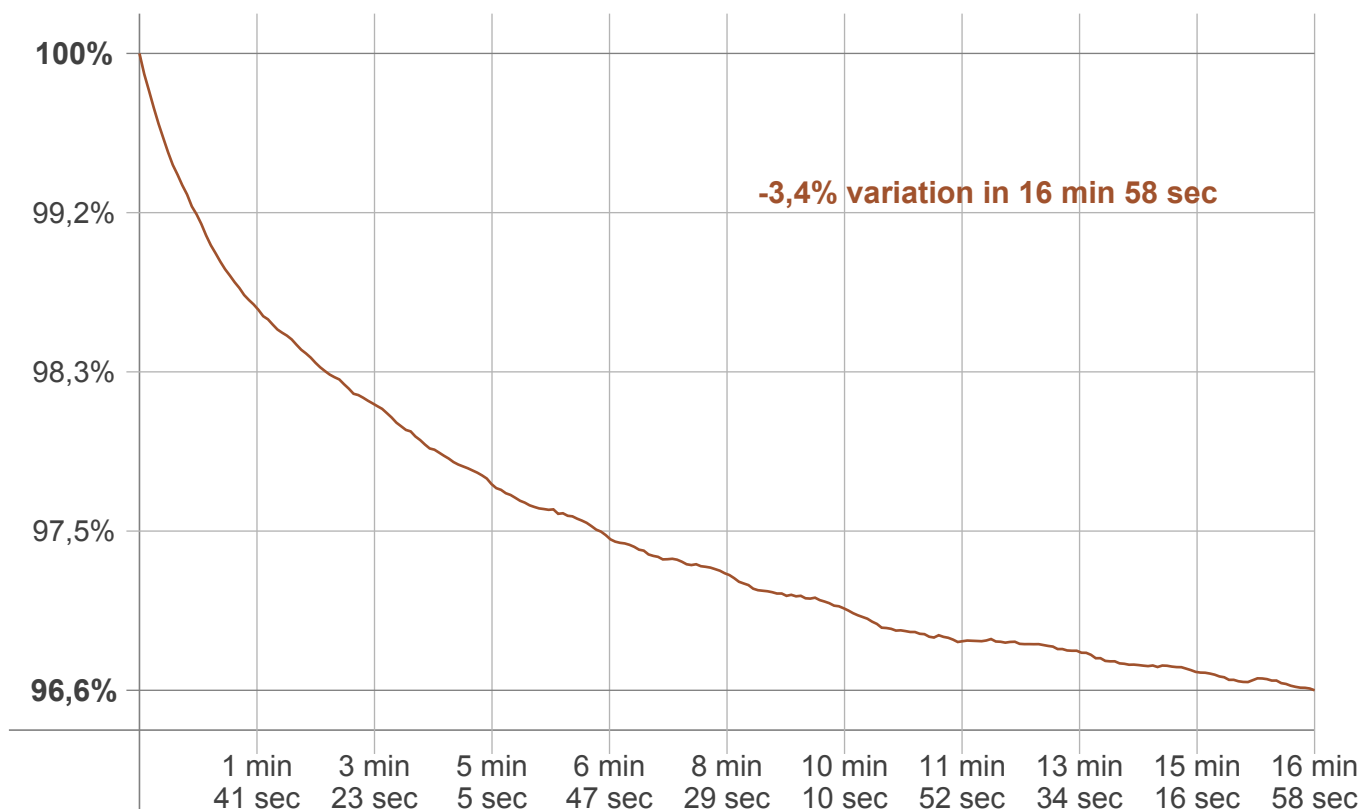
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
27,7 lm	79,2 lm	119 lm	139 lm	137 lm	117 lm	90,3 lm	61,6 lm	33,3 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
8,66 lm	3,46 lm	2,78 lm	2,52 lm	2,10 lm	1,65 lm	1,22 lm	0,744 lm	0,251 lm

Warmup curve



Warmup result

Warmup time:	16 min 58 sec
Warmup variation	-3,4%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
3022 K	-6 K	3016 K

Output change

Output start	Output change	Output end
854 lm	-26 lm	828 lm