

Light efficiency:

49 Lumen/Watt

Light quality:

CRI: 93,5

Color temperature:

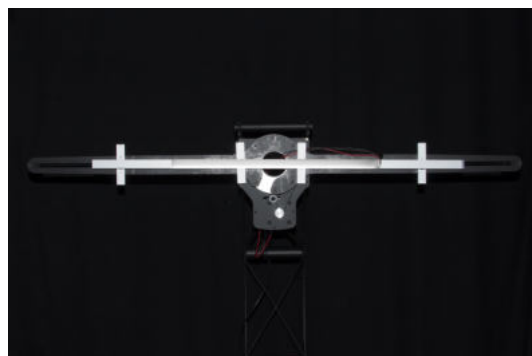
2624 K

Output: 542 lm

Peak: 143 cd

Power: 11,0 W

PF: 1,0



Product name:

Pegasus-4-0508-927-CSW

Item number:

FLNP/L/09D0508/927/CSW

Date and time:

07.04.2021 10:50:44

Description:

Rank: F9-8GA

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:

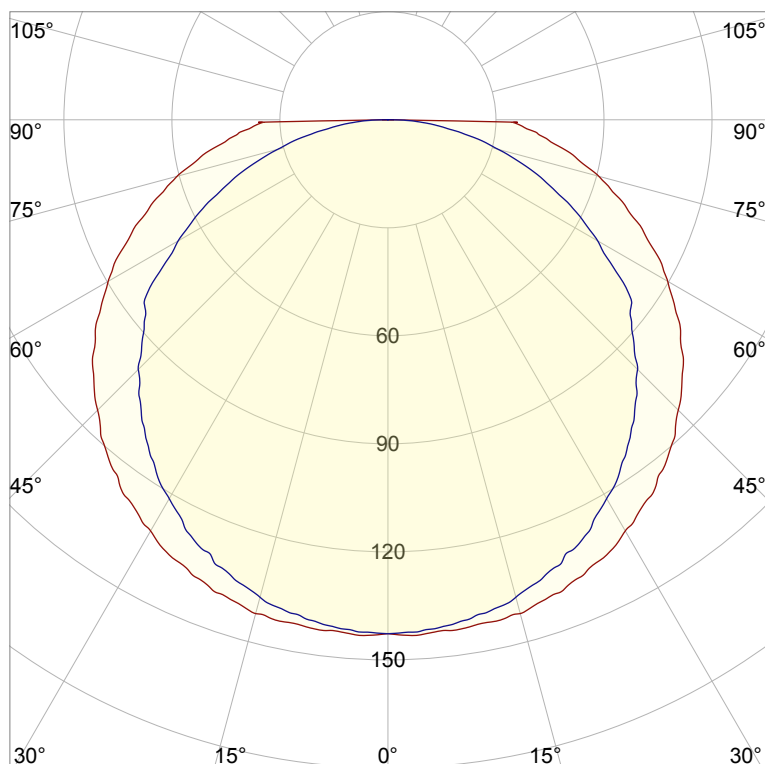
Peter Ulrich

Pruefort:

Lichtlabor

Gaustrasse13-15

55411 Bingen am Rhein

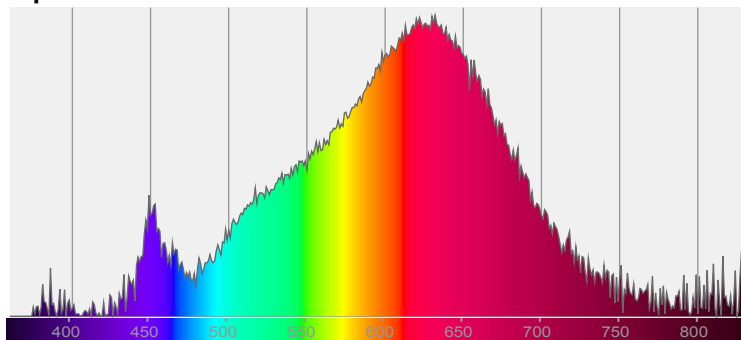


CIE 1931

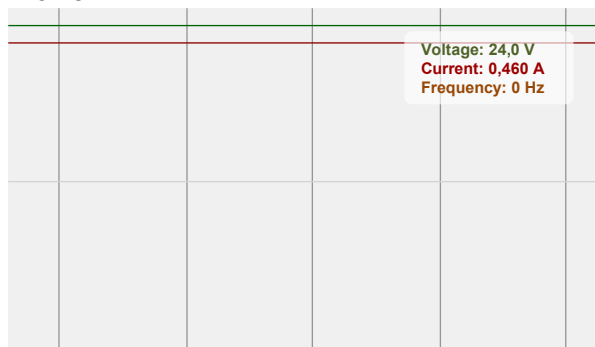
x: 0,466

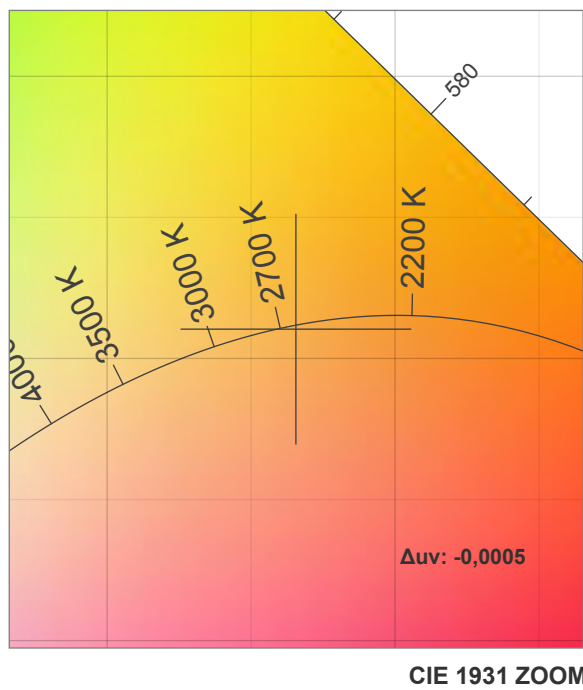
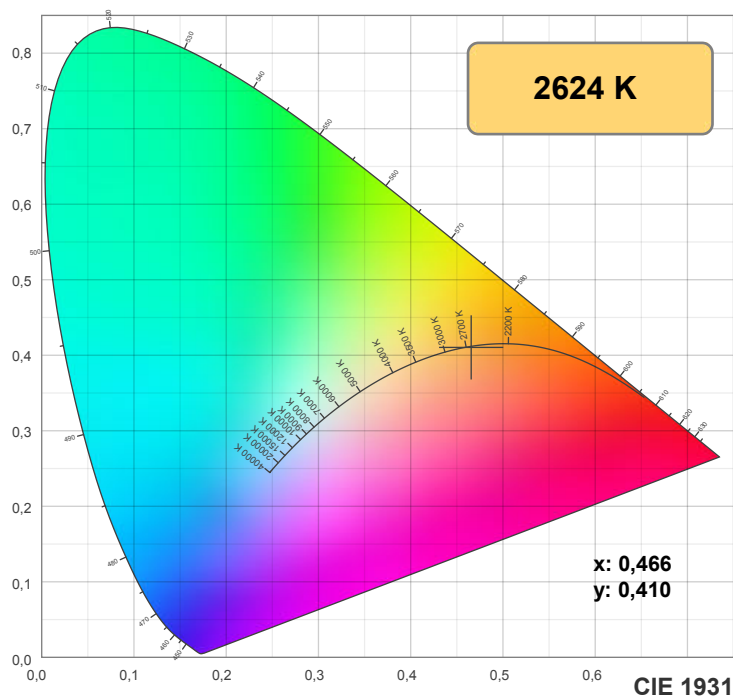
y: 0,410

Spectra

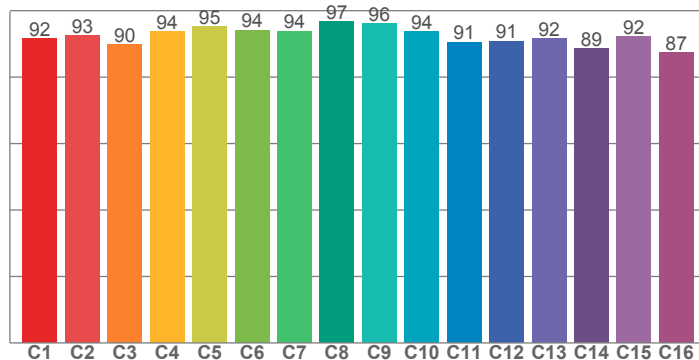


Power

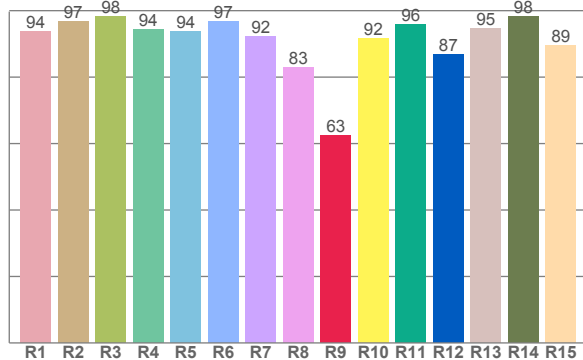




TM30: 92,5



CRI: 93,5 (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
93,8	96,7	98,2	94,3	93,8	96,7	92,2	82,8	62,5	91,7	95,8	86,7	94,6	98,2	89,4

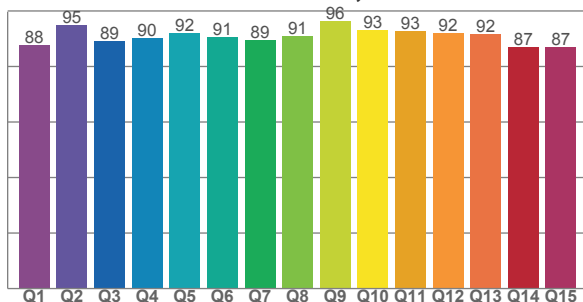
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91,7	92,6	89,7	93,7	95,3	94,1	93,9	96,8	96,2	93,6	90,6	90,9	91,7	88,7	92,2	87,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87,7	94,8	89,3	90,2	92,0	90,7	89,4	91,1	96,3	93,2	92,8	92,1	91,8	87,0	86,9

CQS: 90,5



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
2624 K	93,5	62,5	92,5	100,7	90,5	0,466	0,410	0,266	0,352	-0,0005

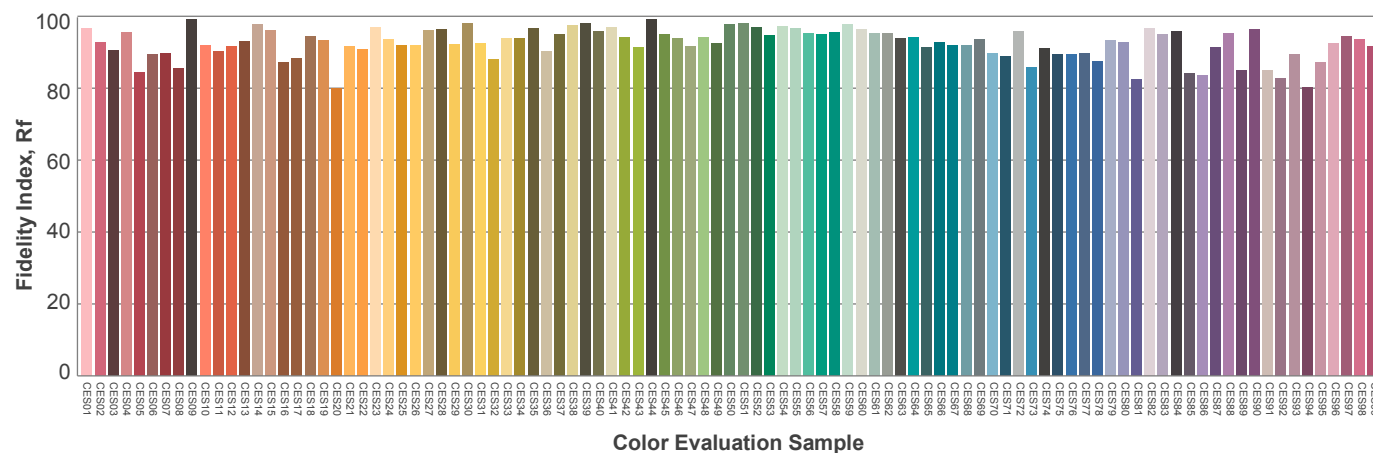
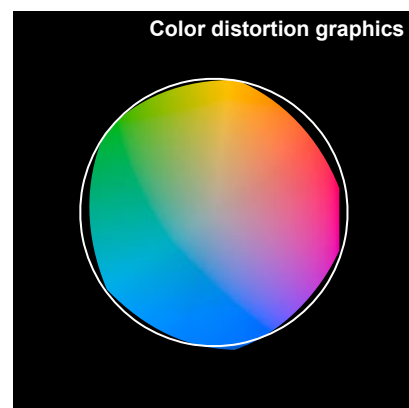
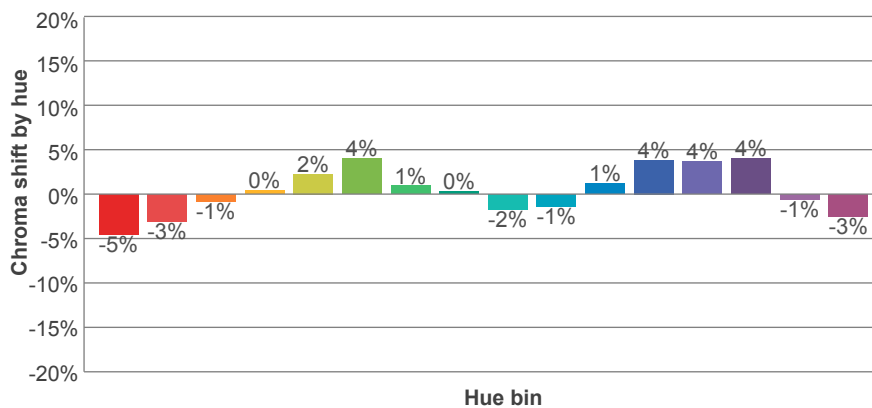
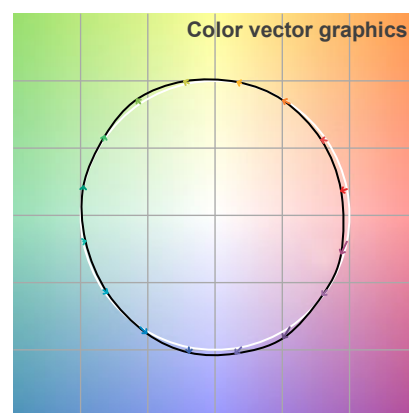
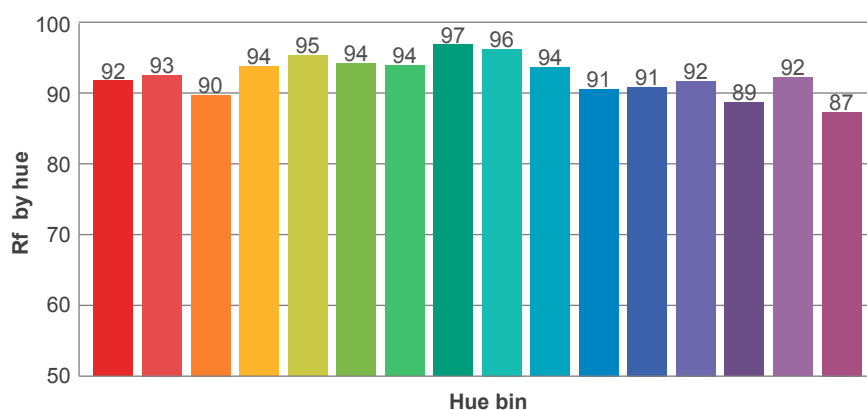
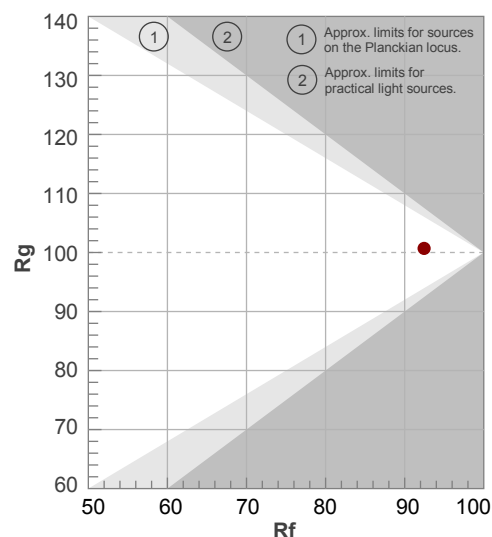
Rf 92,5

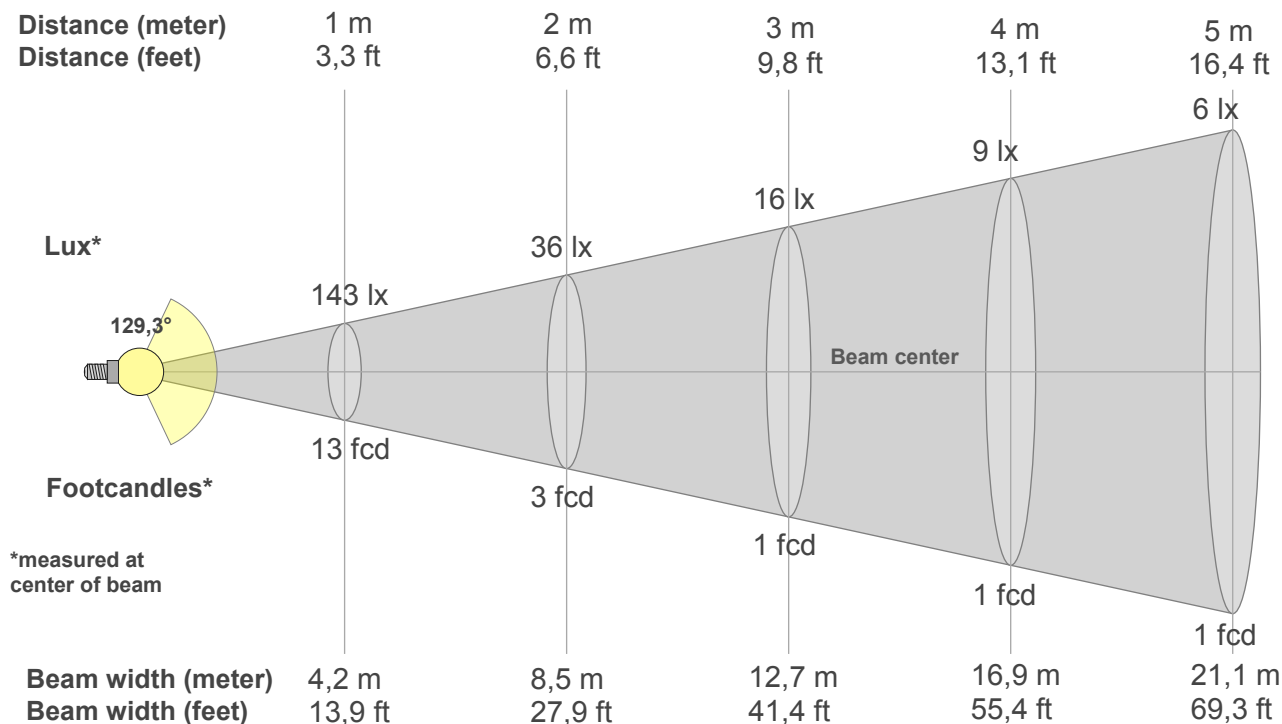
Fidelity index Rf

Rg 100,7

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	-5%	0%
2	93	-3%	3%
3	90	-1%	5%
4	94	0%	3%
5	95	2%	3%
6	94	4%	0%
7	94	1%	-3%
8	97	0%	-2%
9	96	-2%	0%
10	94	-1%	3%
11	91	1%	6%
12	91	4%	1%
13	92	4%	-5%
14	89	4%	-8%
15	92	-1%	-5%
16	87	-3%	-9%





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
143lx	36lx	16lx	9lx	6lx	4lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx
13,2fcd	3,3fcd	1,5fcd	0,8fcd	0,5fcd	0,4fcd	0,3fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0fcd	0fcd	0fcd	0fcd

Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
143	143	140	135	126	114	100	84	66	48	19	17	15	13	11	9	7	6	4	2
100%	100%	98%	95%	89%	80%	70%	59%	46%	34%	13%	12%	11%	9%	8%	7%	5%	4%	3%	1%

Intensities in 90° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
143	141	135	125	113	98	83	60	39	18	2	2	2	1	1	1	1	1	0	0
100%	99%	95%	88%	79%	69%	58%	42%	27%	13%	1%	1%	1%	1%	1%	1%	1%	0%	0%	0%

Intensities in 180° c-plane

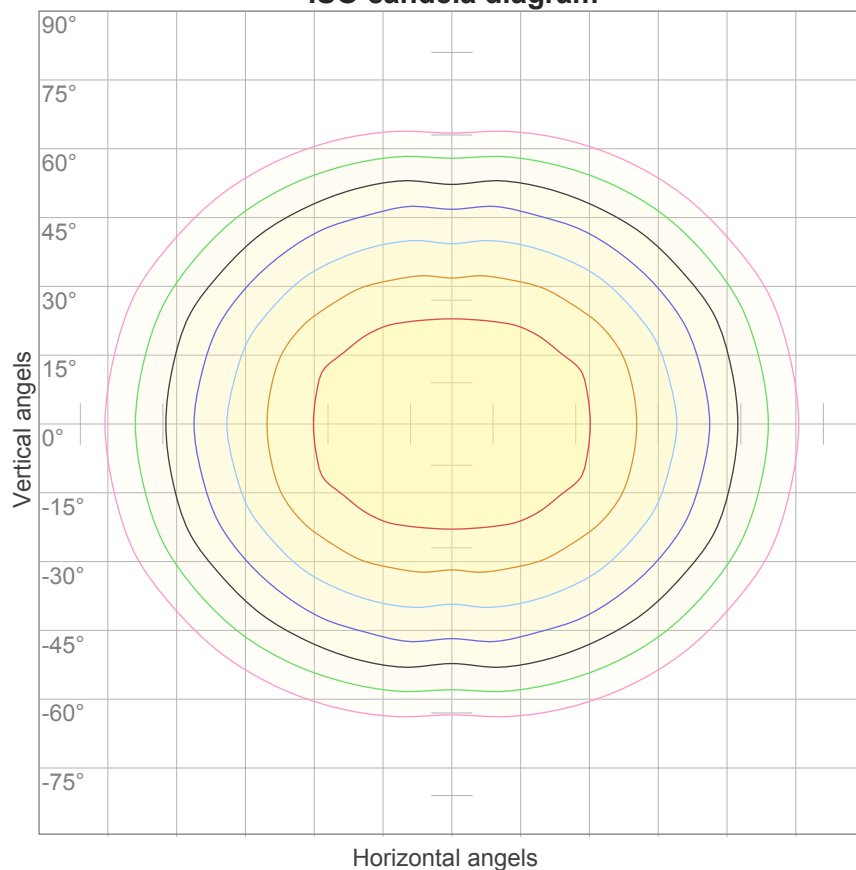
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
143	143	140	135	126	114	100	84	66	48	19	17	15	13	11	9	7	6	4	2
100%	100%	98%	95%	89%	80%	70%	59%	46%	34%	13%	12%	11%	9%	8%	7%	5%	4%	3%	1%

Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
143	141	135	125	113	98	83	60	39	18	2	2	2	1	1	1	1	1	0	0
100%	99%	95%	88%	79%	69%	58%	42%	27%	13%	1%	1%	1%	1%	1%	1%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
129,3°	185,1°	209,4°	65,5%	42,8%

ISO candela diagram



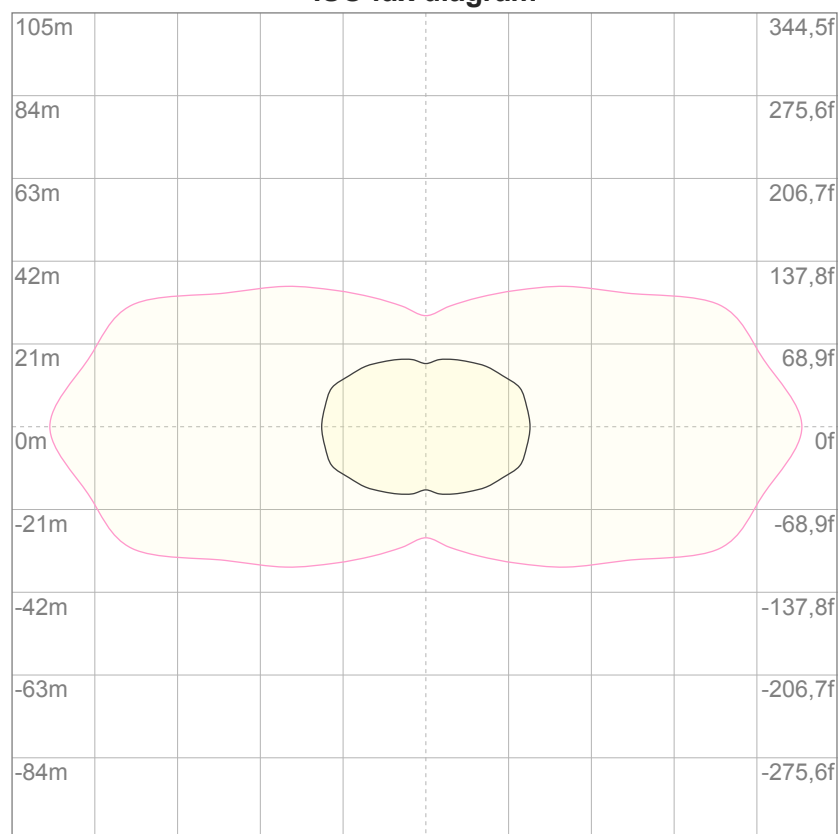
10%	14 cd
20%	29 cd
30%	43 cd
40%	57 cd
50%	71 cd
60%	86 cd
70%	100 cd
80%	114 cd
90%	128 cd

Conditions:

Number of c-planes: 16

Candela at center: 143 cd

ISO lux diagram



3%	42,8m lx
5%	71,3m lx
10%	0,143 lx
30%	0,428 lx
50%	0,713 lx

Conditions:

Number of c-planes: 16

Lux at center: 1,43 lx

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

Glare Evaluation According to UGR

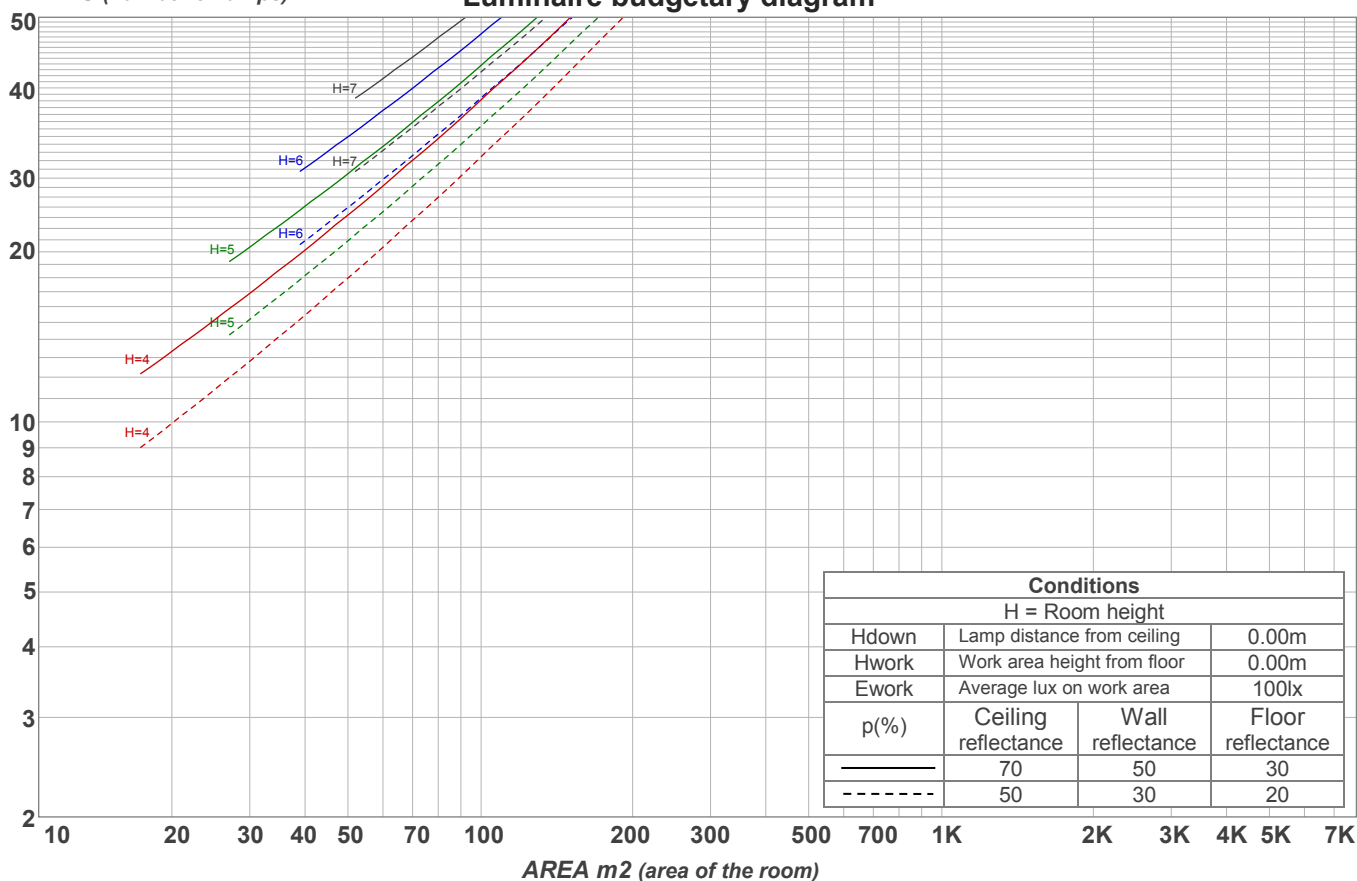
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	20,3	21,6	20,6	22,0	22,2	20,3	21,6	20,5	21,9	22,2
	3H	22,1	23,5	22,5	23,8	24,0	21,8	23,2	22,3	23,5	23,7
	4H	23,0	24,3	23,4	24,6	24,8	22,6	23,9	23,0	24,2	24,4
	6H	23,8	25,0	24,1	25,3	25,7	23,2	24,4	23,5	24,6	25,0
	8H	24,2	25,3	24,5	25,6	26,1	23,4	24,5	23,7	24,8	25,3
	12H	24,5	25,6	24,9	26,0	26,4	23,5	24,6	23,9	25,0	25,4
4H	2H	20,9	22,3	21,4	22,6	22,8	20,9	22,2	21,3	22,5	22,8
	3H	23,1	24,2	23,4	24,5	25,0	22,8	23,9	23,2	24,3	24,7
	4H	24,0	25,1	24,5	25,5	26,0	23,6	24,6	24,1	25,1	25,6
	6H	25,0	26,0	25,5	26,3	26,7	24,3	25,3	24,8	25,7	26,0
	8H	25,4	26,3	25,9	26,7	27,1	24,6	25,5	25,1	25,9	26,2
	12H	25,8	26,6	26,3	27,0	27,5	24,8	25,6	25,3	26,0	26,5
8H	4H	24,4	25,3	24,9	25,7	26,1	24,0	24,9	24,5	25,3	25,7
	6H	25,6	26,3	26,1	26,8	27,3	24,9	25,6	25,4	26,1	26,7
	8H	26,2	26,8	26,7	27,3	28,0	25,3	26,0	25,8	26,5	27,1
	12H	26,7	27,3	27,3	27,8	28,4	25,6	26,2	26,2	26,7	27,3
12H	4H	24,4	25,2	24,9	25,6	26,1	24,1	24,9	24,6	25,3	25,8
	6H	25,7	26,3	26,2	26,8	27,5	25,1	25,7	25,6	26,2	26,9
	8H	26,3	26,9	26,9	27,4	28,0	25,5	26,1	26,1	26,6	27,2
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 / -0,1					0,1 / -0,1				
S = 2.0H		0,2 / -0,3					0,3 / -0,3				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 542 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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	105	99	94	90	102	96	92	88	91	87	84	86	83	80	81	79	76	74
2	95	85	78	71	91	83	76	70	78	72	67	74	69	65	70	66	62	59
3	86	74	65	58	82	72	64	57	68	61	55	64	58	53	61	56	52	49
4	78	65	56	48	75	63	55	48	60	52	46	57	50	45	54	48	44	41
5	72	58	48	41	69	56	47	41	53	46	40	51	44	39	48	42	38	35
6	66	52	42	36	63	51	42	35	48	40	34	46	39	34	43	37	33	30
7	61	47	38	31	59	46	37	31	44	36	30	41	35	30	40	33	29	27
8	57	43	34	28	55	42	33	27	40	32	27	38	31	26	36	30	26	24
9	53	39	30	25	51	38	30	25	36	29	24	35	28	24	33	27	23	21
10	49	36	28	22	48	35	27	22	34	27	22	32	26	21	31	25	21	19

LAMPS (number of lamps)

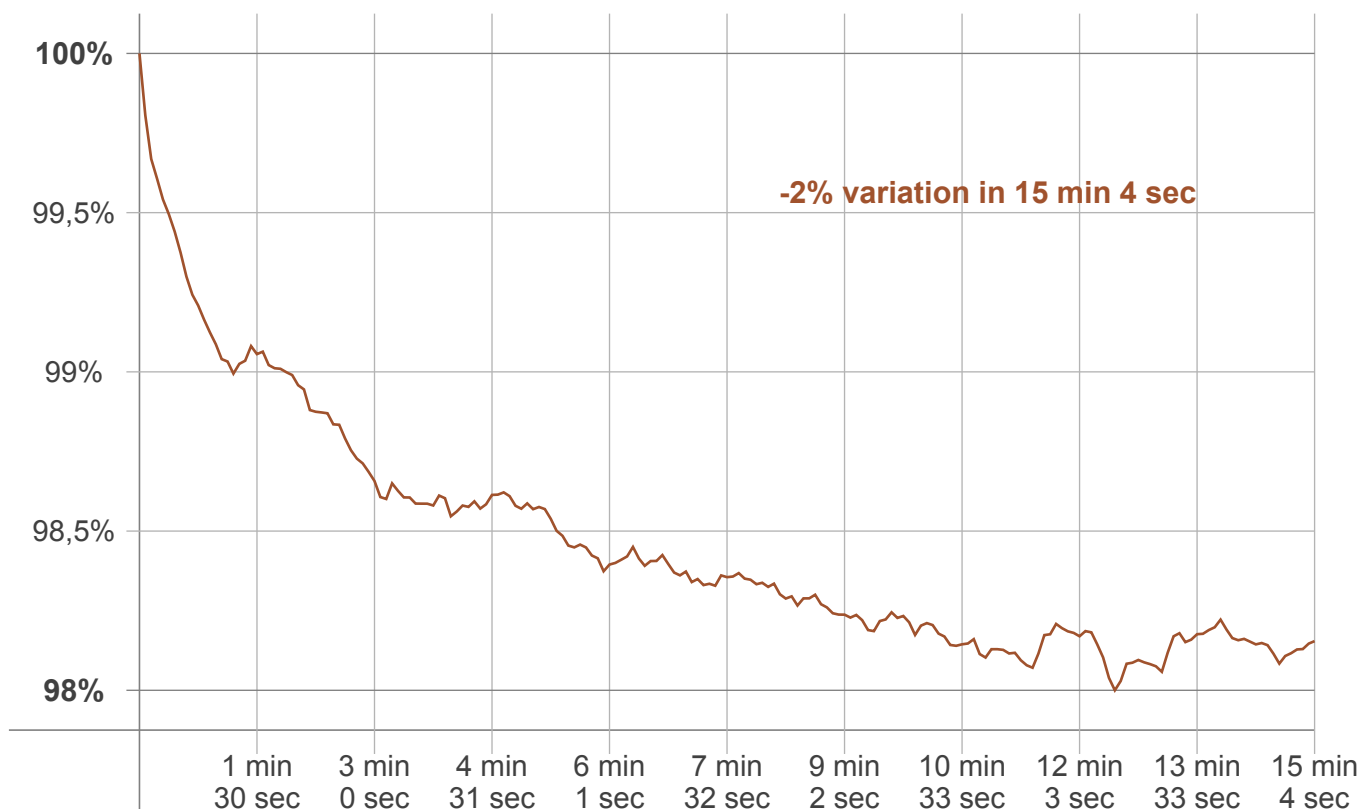
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
13,6 lm	39,5 lm	61,2 lm	76,4 lm	83,0 lm	81,1 lm	69,7 lm	51,9 lm	30,0 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
12,9 lm	5,88 lm	5,29 lm	4,78 lm	2,90 lm	1,67 lm	1,23 lm	0,755 lm	0,254 lm

Warmup curve



Warmup result

Warmup time:	15 min 4 sec
Warmup variation	-2,0%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2625 K	-1 K	2624 K

Output change

Output start	Output change	Output end
549 lm	-7 lm	542 lm