

#### Light efficiency:

68 Lumen/Watt

#### Light quality:

CRI: 83,6

#### Color temperature:

3917 K

Output: 552 lm

Peak: 146 cd

Power: 8,2 W

PF: 1,0



#### Product name:

**Pegasus-3-Gold-0508-840-CSW**

#### Item number:

**FLNP-L-16A-0508-840-CSW**

#### Date and time:

**18.02.2021 16:37:18**

#### Description:

**Rank: S15ZT**

**Toleranzen:**

**Lumen +/-4%**

**Candela +/-2,5%**

**Colour Temp +/-35 Grad K**

**CRI +/-0,7**

**Angular Resolution 1 Grad step**

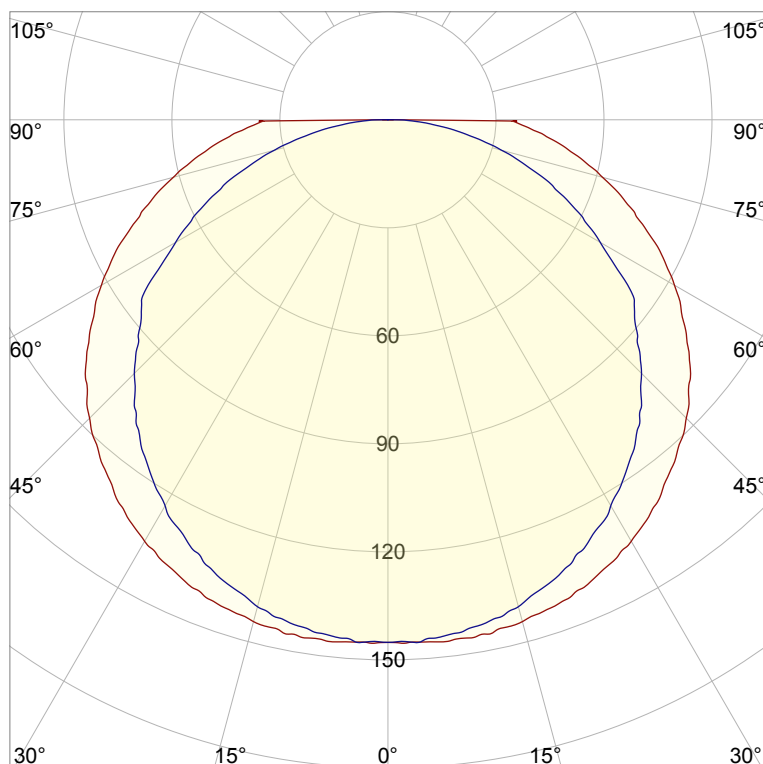
**Last Calibration 20-05-2020**

**Pruefer: Peter Ulrich**

**Pruefort: Lichtlabor**

**Gaustrasse13-15**

**55411 Bingen am Rhein**

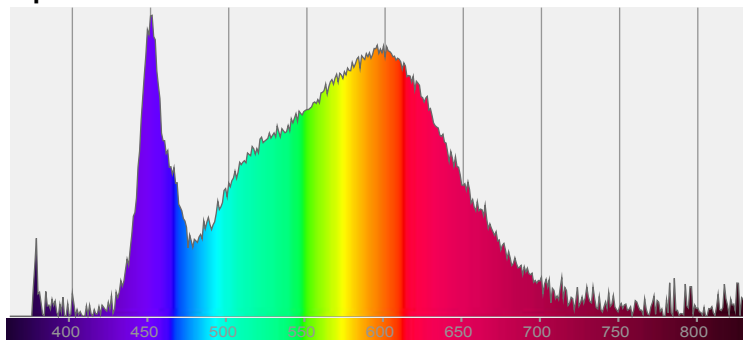


CIE 1931

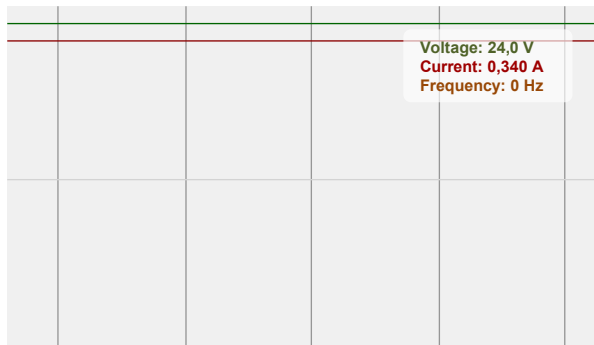
x: 0,385

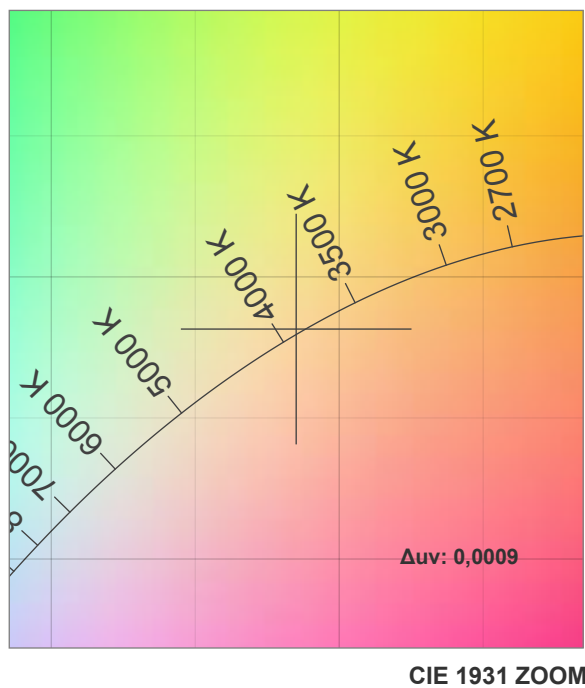
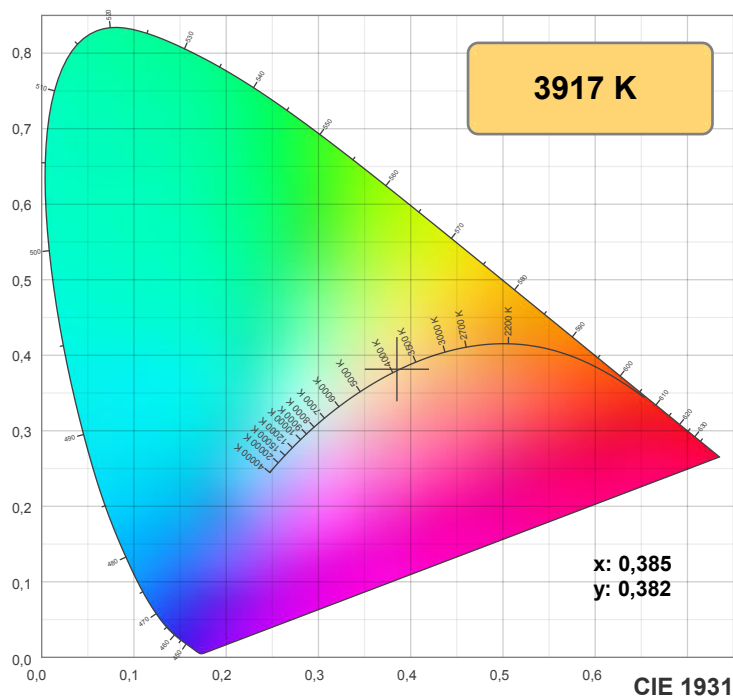
y: 0,382

#### Spectra

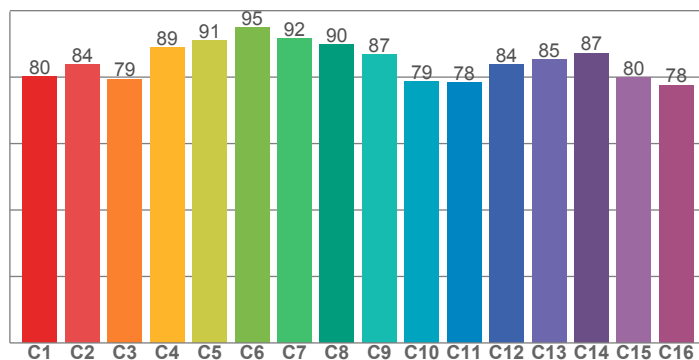


#### Power

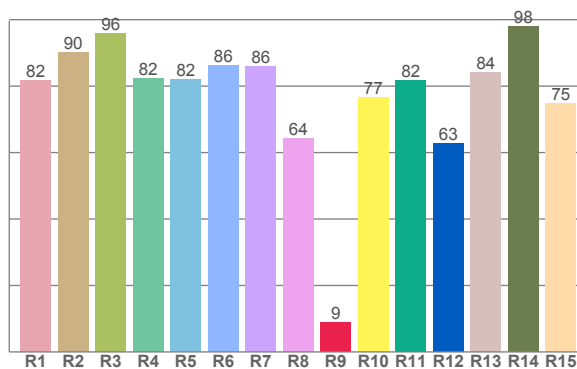




**TM30: 84,6**



**CRI: 83,6 (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
81,9	90,1	95,9	82,4	81,9	86,3	85,9	64,3	9,0	76,7	81,7	62,9	84,0	98,1	74,7

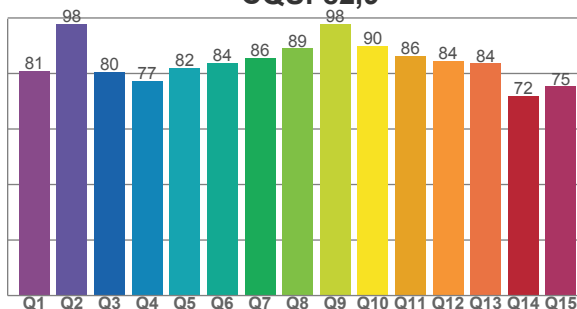
**TM30 C values, 16 binned values out of total of 99 C values**

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80,2	83,9	79,4	88,9	90,9	95,0	91,6	89,7	86,8	78,7	78,4	83,9	85,4	87,2	79,8	77,6

**CQS Q values**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81,0	97,9	80,5	77,2	82,0	83,8	85,5	89,0	97,7	89,9	86,3	84,5	83,6	72,0	75,3

**CQS: 82,9**



## 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
3917 K	83,6	9,0	84,6	95,4	82,9	0,385	0,382	0,226	0,336	0,0009

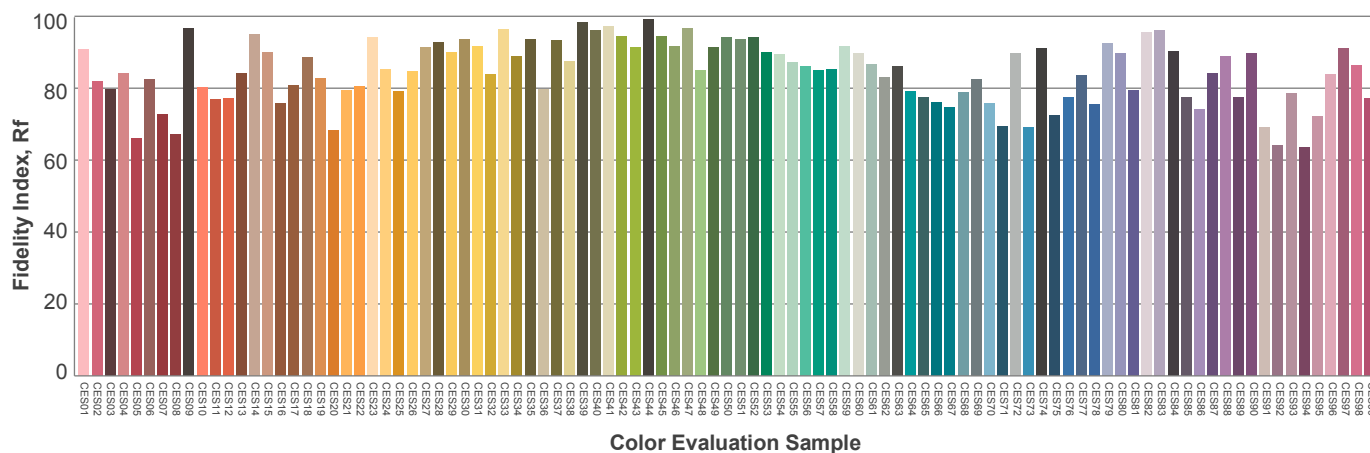
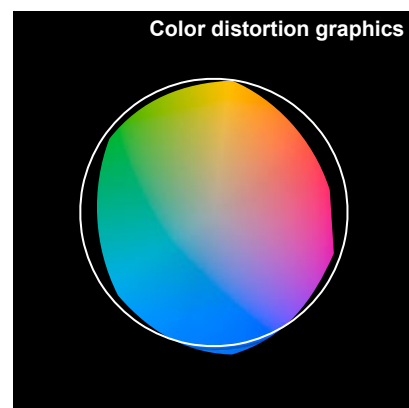
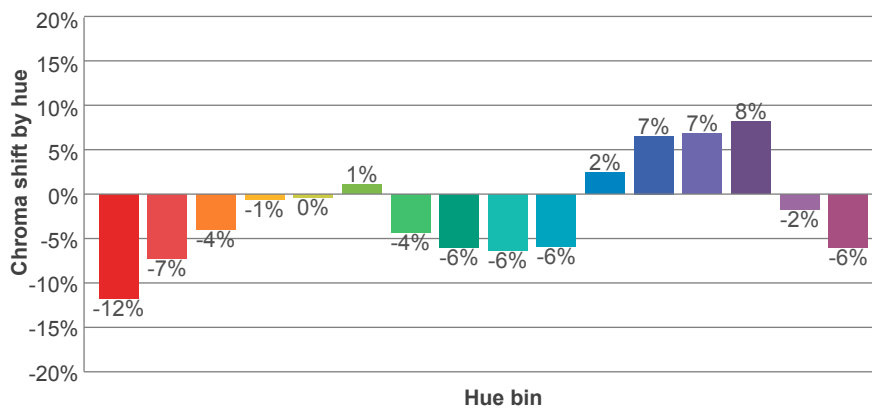
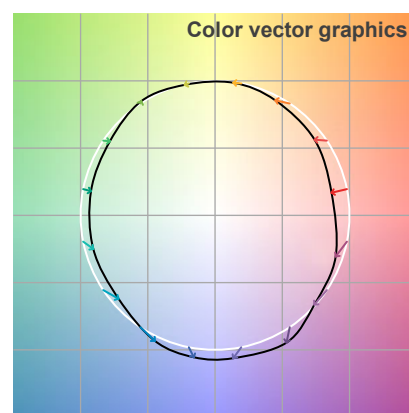
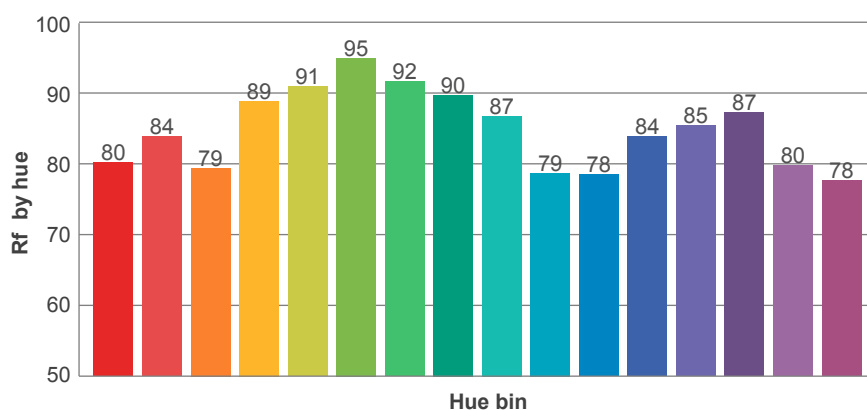
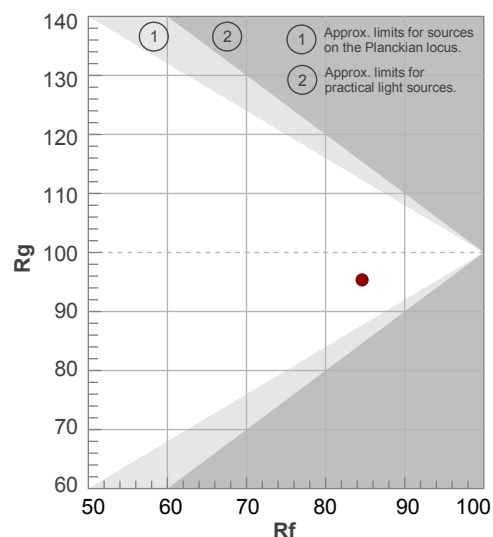
**Rf 84,6**

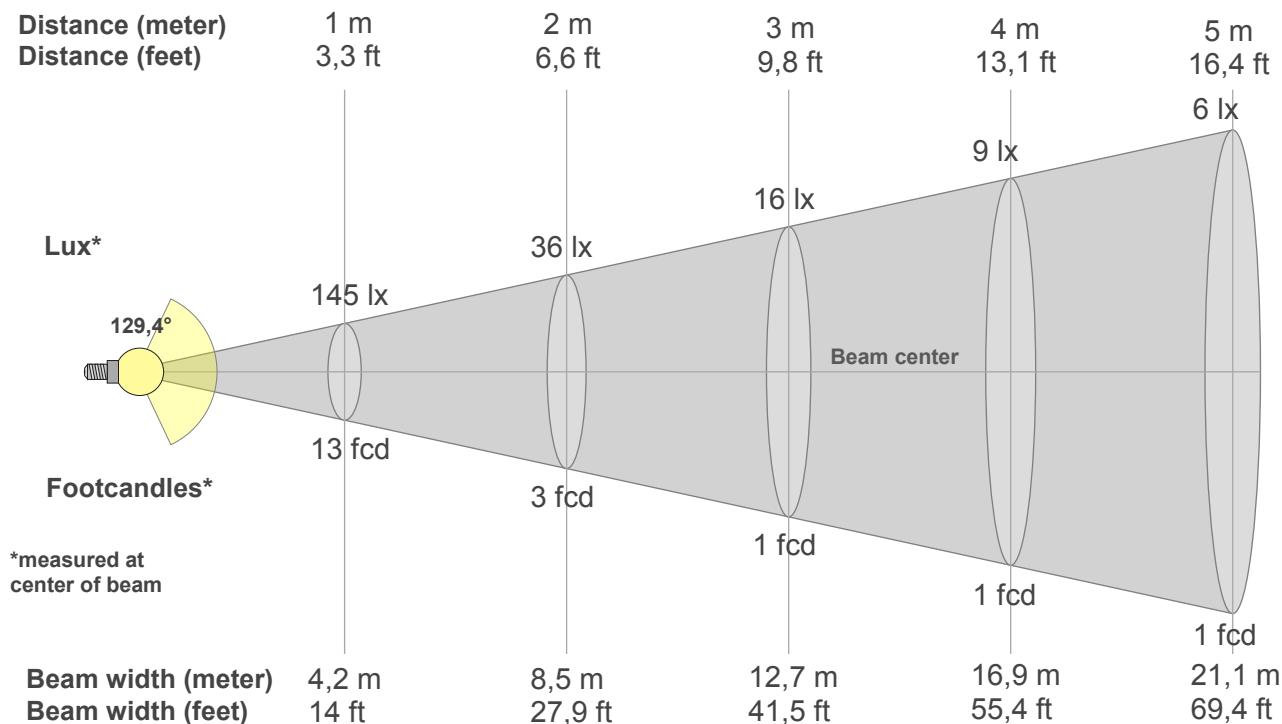
Fidelity index Rf

**Rg 95,4**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	80	-12%	0%
2	84	-7%	6%
3	79	-4%	10%
4	89	-1%	6%
5	91	0%	3%
6	95	1%	-2%
7	92	-4%	-2%
8	90	-6%	0%
9	87	-6%	7%
10	79	-6%	12%
11	78	2%	15%
12	84	7%	5%
13	85	7%	-7%
14	87	8%	-8%
15	80	-2%	-14%
16	78	-6%	-12%





## 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
145lx	36lx	16lx	9lx	6lx	4lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx
13,5fcd	3,4fcd	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°
145	146	143	138	129	117	103	86	68	50	18	16	14	13	11	9	7	5	4	2
100%	100%	99%	95%	89%	81%	71%	59%	47%	35%	12%	11%	10%	9%	7%	6%	5%	4%	2%	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°
145	143	137	128	115	100	84	61	40	19	2	2	1	1	1	1	1	1	0	0
100%	99%	95%	88%	79%	69%	58%	42%	27%	13%	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%

## Intensities in 180° c-plane

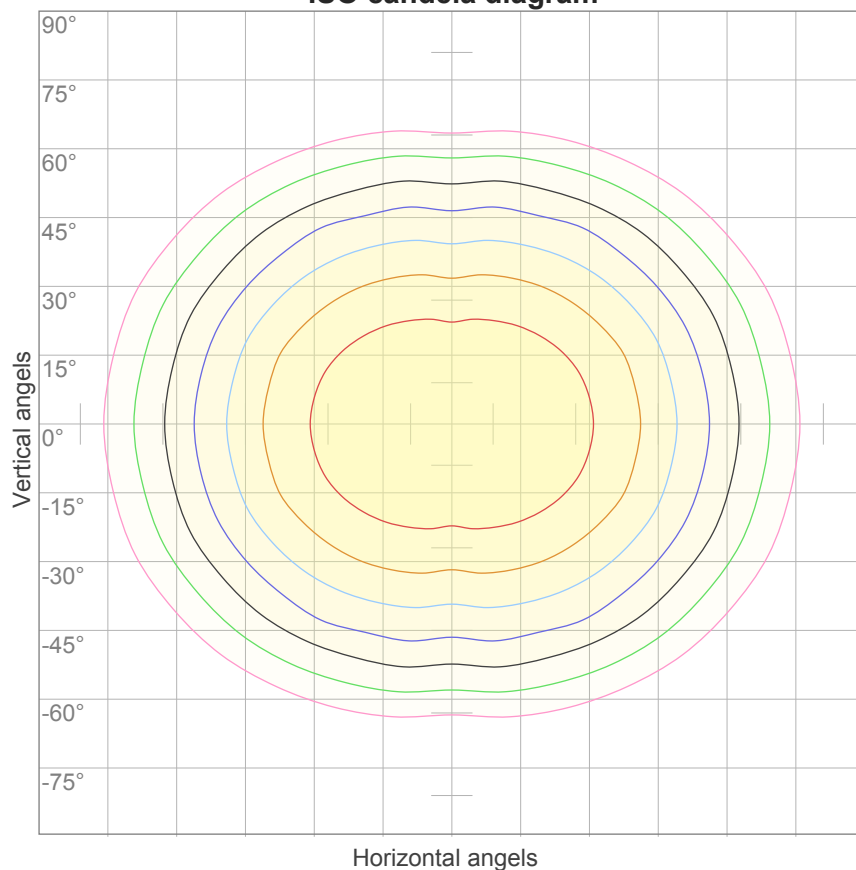
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
145	146	143	138	129	117	103	86	68	50	18	16	14	13	11	9	7	5	4	2
100%	100%	99%	95%	89%	81%	71%	59%	47%	35%	12%	11%	10%	9%	7%	6%	5%	4%	2%	1%

## 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°
145	143	137	128	115	100	84	61	40	19	2	2	1	1	1	1	1	1	0	0
100%	99%	95%	88%	79%	69%	58%	42%	27%	13%	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
129,4°	184,6°	210,3°	65,5%	42,8%

### ISO candela diagram



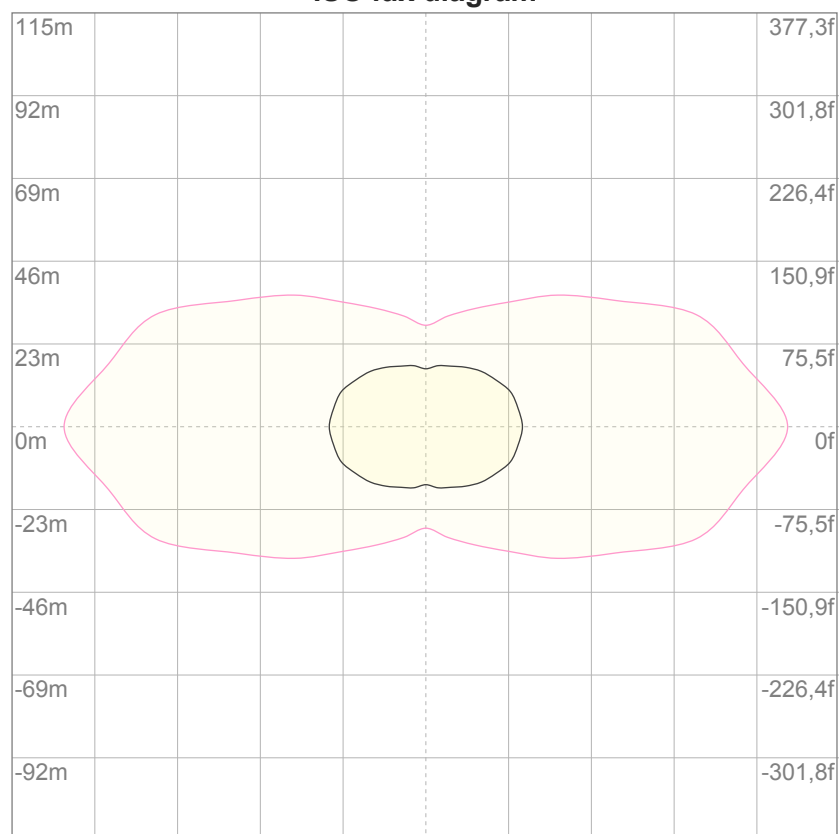
10%	15 cd
20%	29 cd
30%	44 cd
40%	58 cd
50%	73 cd
60%	87 cd
70%	102 cd
80%	116 cd
90%	131 cd

#### Conditions:

Number of c-planes: 16

Candela at center: 145 cd

### ISO lux diagram



3%	43,5m lx
5%	72,6m lx
10%	0,145 lx
30%	0,435 lx
50%	0,726 lx

#### Conditions:

Number of c-planes: 16

Lux at center: 1,45 lx

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

### Glare Evaluation According to UGR

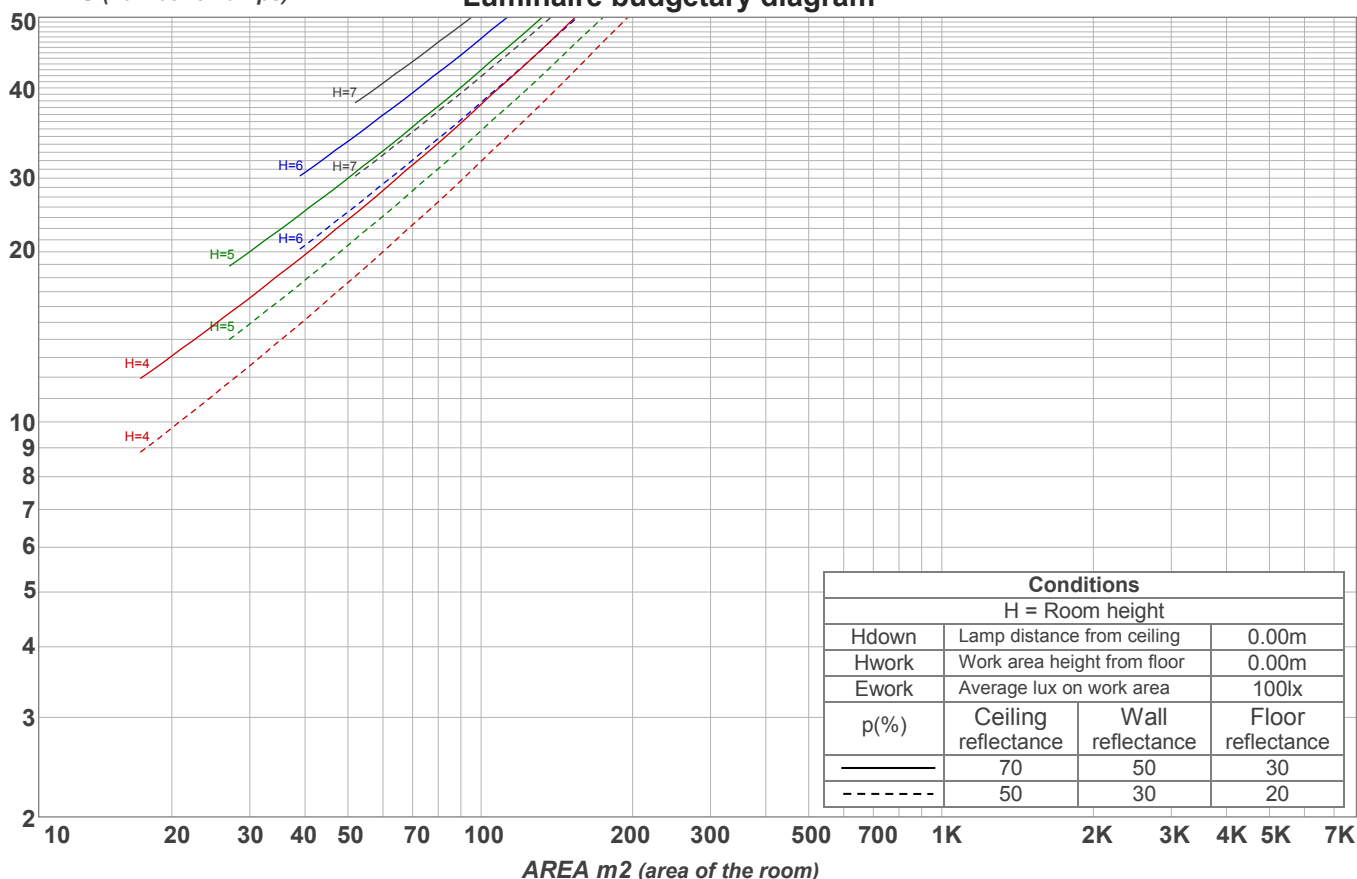
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X      Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	20,4	21,7	20,6	22,1	22,3	20,3	21,7	20,6	22,0	22,2
	3H	22,2	23,5	22,6	23,8	24,1	21,9	23,3	22,3	23,6	23,8
	4H	23,0	24,4	23,5	24,7	24,9	22,6	24,0	23,1	24,3	24,5
	6H	23,9	25,1	24,2	25,4	25,8	23,3	24,5	23,6	24,7	25,1
	8H	24,3	25,4	24,6	25,7	26,2	23,5	24,6	23,8	24,9	25,3
	12H	24,6	25,7	25,0	26,1	26,5	23,6	24,7	24,0	25,1	25,5
4H	2H	21,0	22,4	21,4	22,6	22,9	21,0	22,3	21,4	22,6	22,9
	3H	23,1	24,3	23,5	24,6	25,1	22,9	24,0	23,3	24,4	24,8
	4H	24,1	25,1	24,5	25,6	26,1	23,7	24,7	24,1	25,1	25,7
	6H	25,1	26,1	25,6	26,4	26,8	24,4	25,4	24,9	25,7	26,1
	8H	25,5	26,4	26,0	26,8	27,2	24,7	25,6	25,2	25,9	26,3
	12H	25,9	26,7	26,4	27,1	27,6	24,9	25,6	25,4	26,1	26,6
8H	4H	24,5	25,4	25,0	25,8	26,1	24,1	25,0	24,6	25,4	25,8
	6H	25,7	26,4	26,2	26,8	27,4	25,0	25,7	25,5	26,2	26,8
	8H	26,3	26,9	26,8	27,4	28,1	25,4	26,1	25,9	26,6	27,2
	12H	26,8	27,4	27,4	27,9	28,5	25,7	26,3	26,3	26,8	27,4
12H	4H	24,5	25,3	25,0	25,7	26,2	24,2	24,9	24,7	25,4	25,8
	6H	25,8	26,4	26,3	26,9	27,6	25,2	25,8	25,7	26,3	27,0
	8H	26,4	27,0	27,0	27,5	28,1	25,6	26,2	26,2	26,7	27,3
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 / -0,2				
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 552 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	114	114	114	114	108	108	108	102	102	102	96	96	96	94
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	60
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	44	37	33	30
7	61	47	38	31	59	46	37	31	44	36	30	41	35	30	40	34	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	24	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)

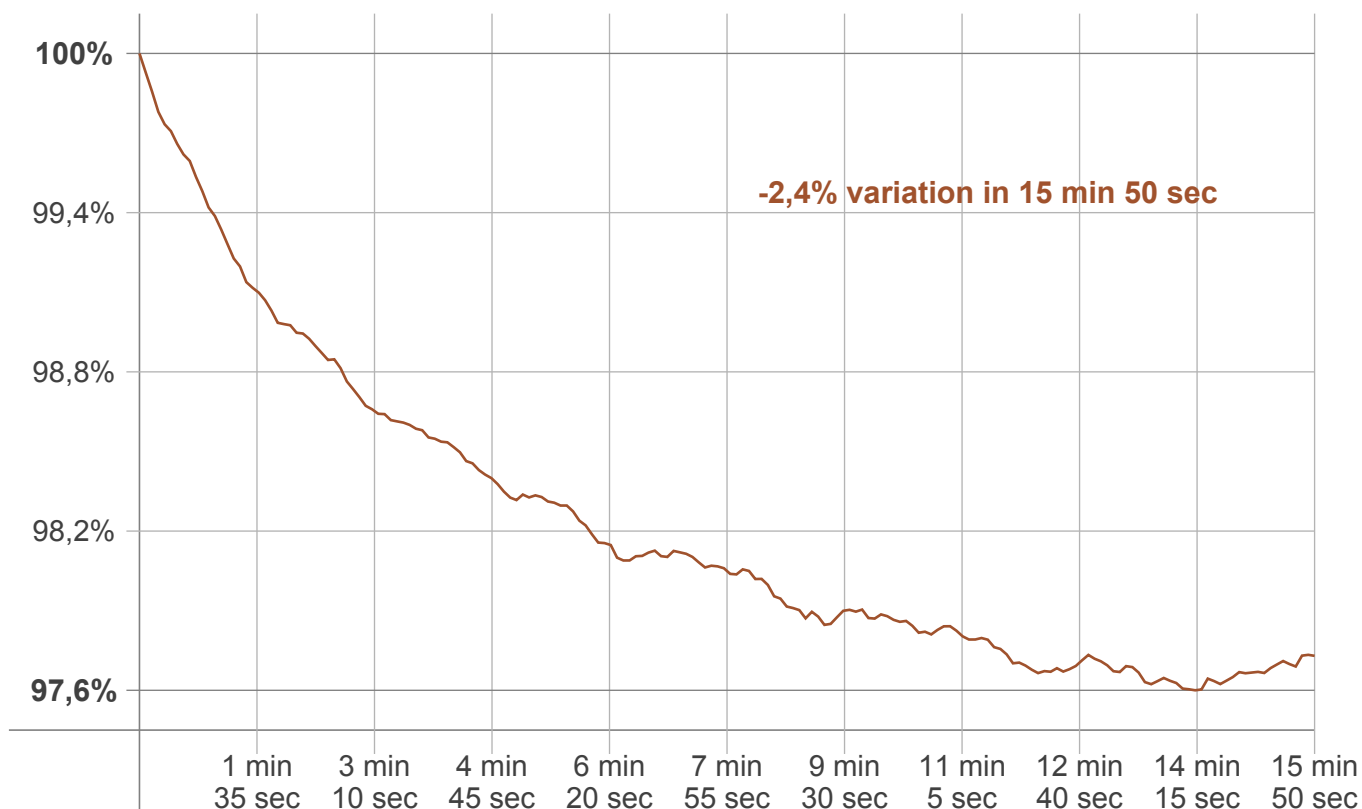
Luminaire budgetary diagram



## Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
13,8 lm	40,2 lm	62,4 lm	77,9 lm	84,8 lm	82,8 lm	71,0 lm	53,0 lm	31,5 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
13,2 lm	5,62 lm	4,96 lm	4,49 lm	2,83 lm	1,57 lm	1,16 lm	0,710 lm	0,239 lm

### Warmup curve



### Warmup result

Warmup time:	15 min 50 sec
Warmup variation	-2,4%

### Warmup conditions

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

### Color temperature change

CCT start	CCT change	CCT end
3903 K	+14 K	3917 K

### Output change

Output start	Output change	Output end
564 lm	-11 lm	552 lm