

### Light efficiency:

92 Lumen/Watt

### Light quality:

CRI: 92,2

### Color temperature:

3031 K

Output: 909 lm

Peak: 300 cd

Power: 9,8 W

PF: 1,0



### Product name:

**Pegasus-3-Gold-0508-930-CST**

### Item number:

**FLNP/L/16A0508/930/CST**

### Date and time:

**04.05.2021 14:05:06**

### Description:

**Rank: M27ZT**

**Toleranzen:**

**Lumen +/-4%**

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

**Colour Temp +/-35 K**

**CRI +/- 0,7**

**Angular Resolution 1 Grad step**

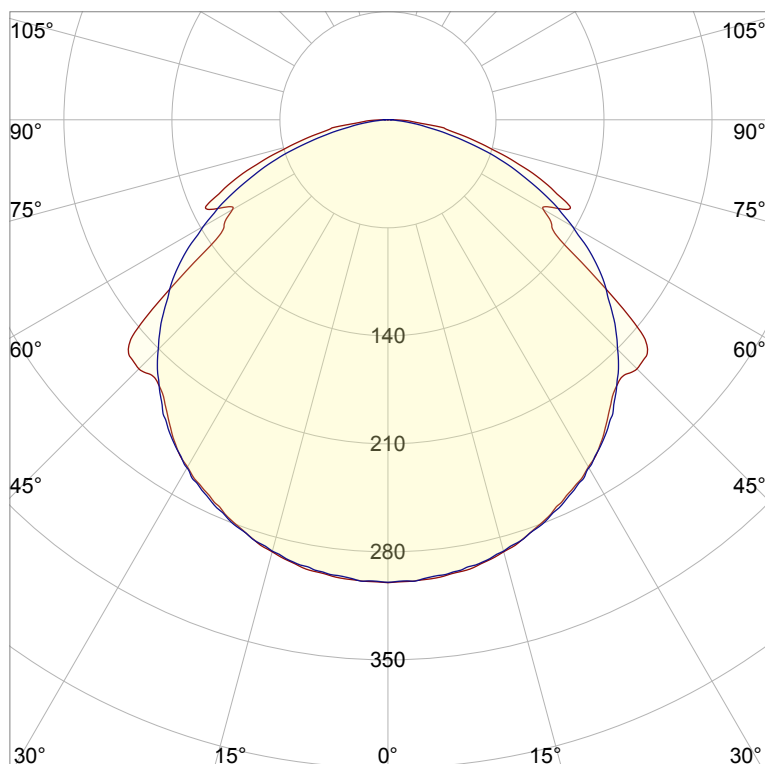
**Last Calibration 20-05-2020**

**Pruefer: Peter Ulrich**

**Pruefort: Lichtlabor**

**Gaustasse13**

**55411 Bingen am Rhein**

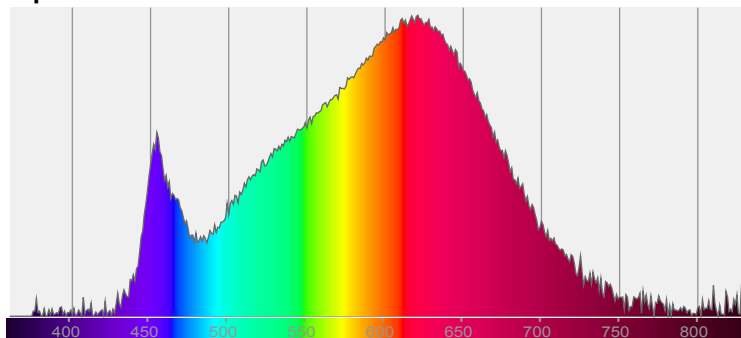


CIE 1931

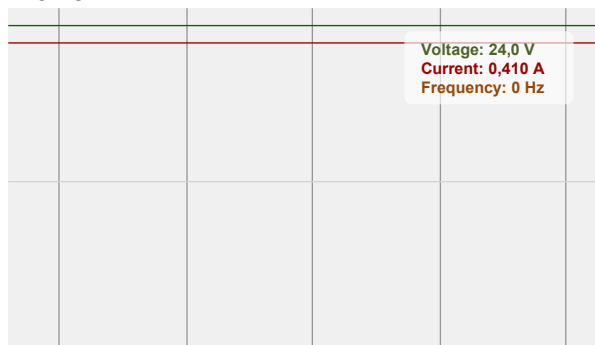
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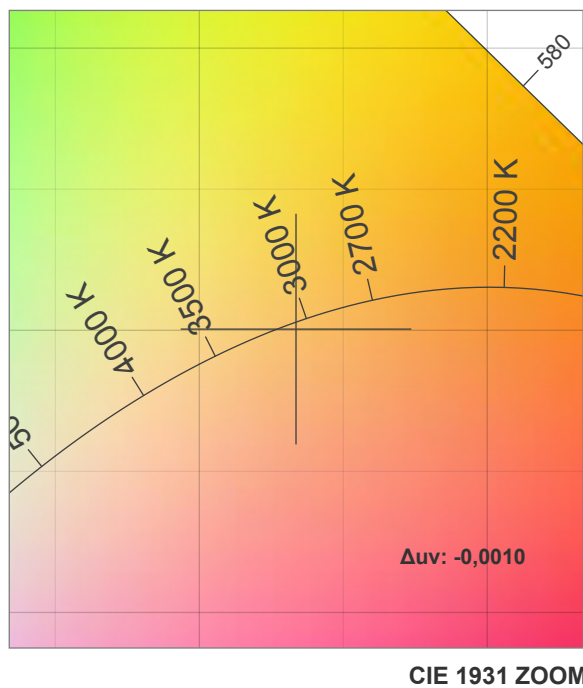
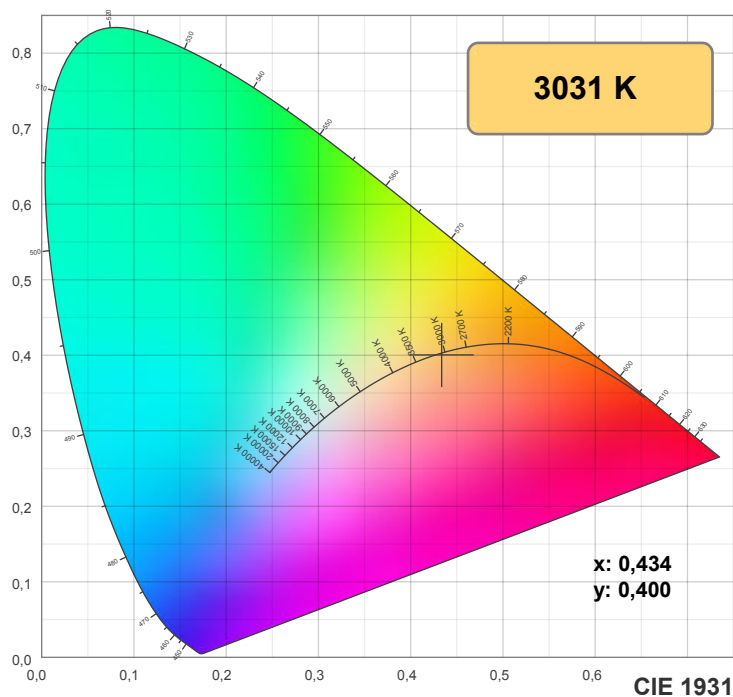
y: 0,400

### Spectra

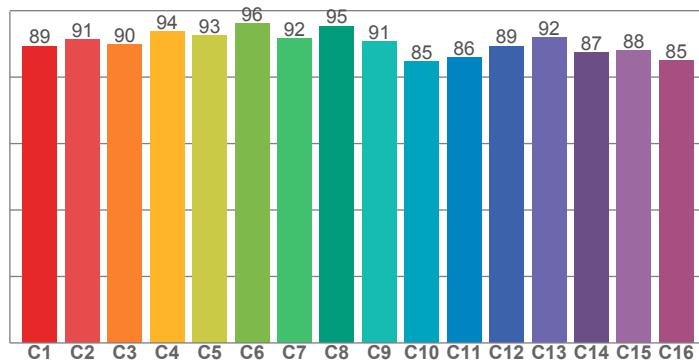


### Power

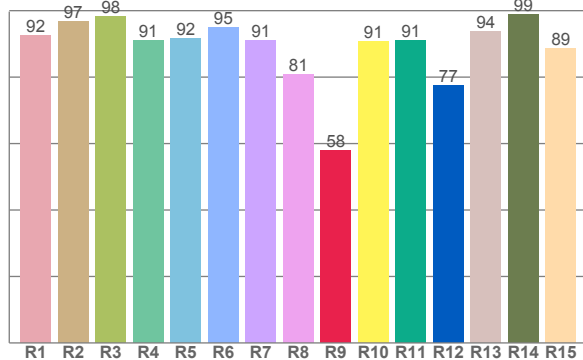




TM30: 90,2



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	96,7	98,3	91,1	91,7	95,1	91,1	80,9	57,9	90,9	91,2	77,5	93,8	98,8	88,7

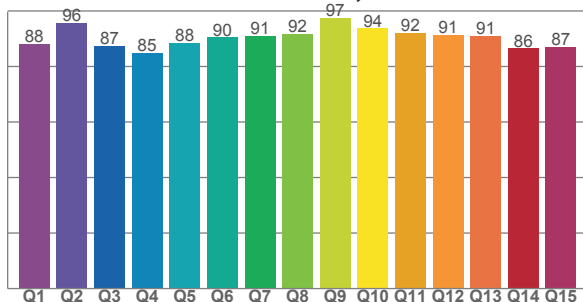
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,3	91,2	89,9	93,6	92,5	96,2	91,5	95,4	90,6	84,6	85,8	89,3	91,8	87,3	88,1	84,9

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	90,9	91,7	97,5	93,7	91,9	91,2	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
3031 K	92,2	57,9	90,2	98,0	89,8	0,434	0,400	0,250	0,346	-0,0010

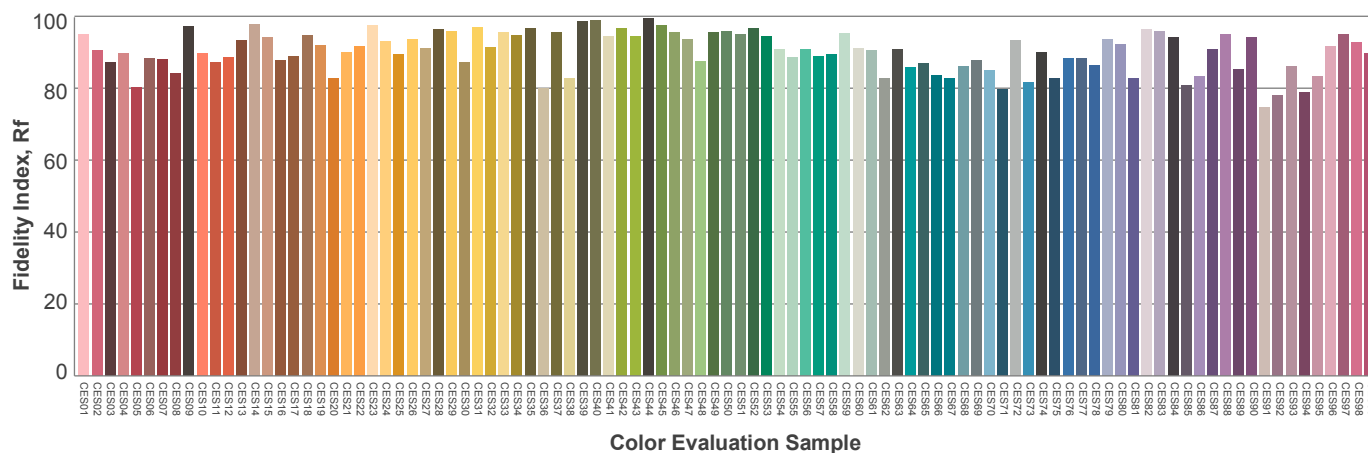
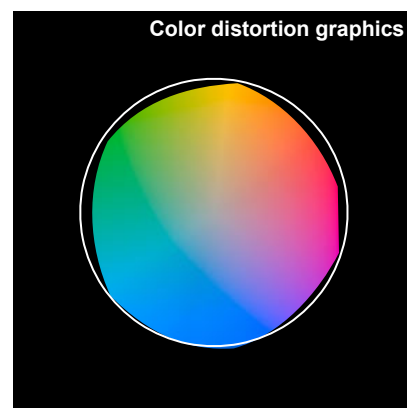
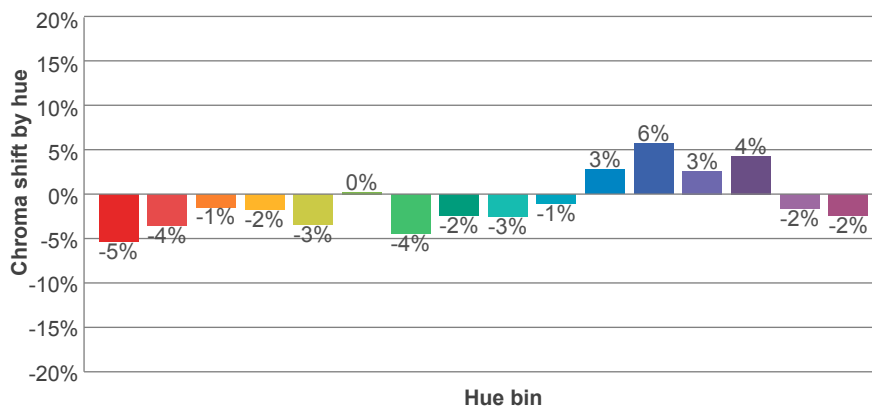
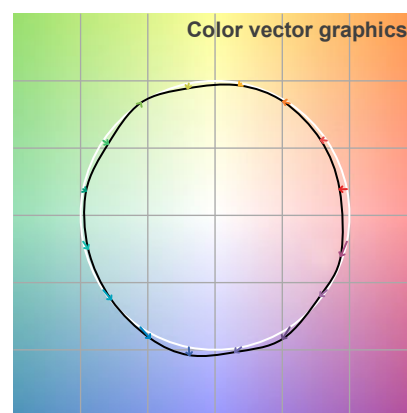
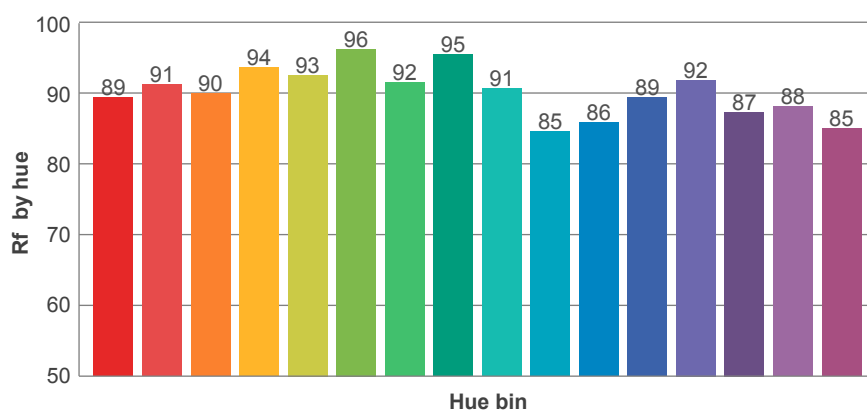
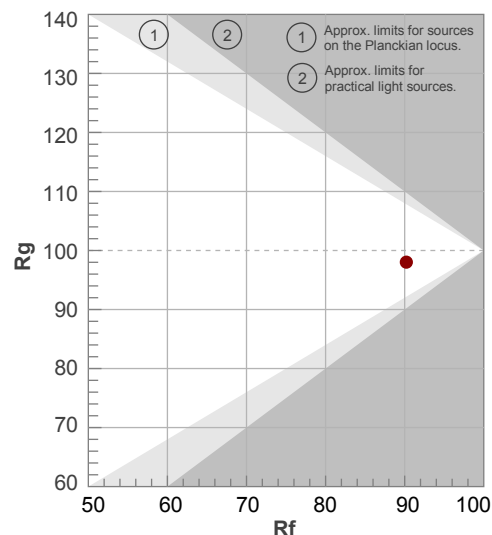
**Rf 90,2**

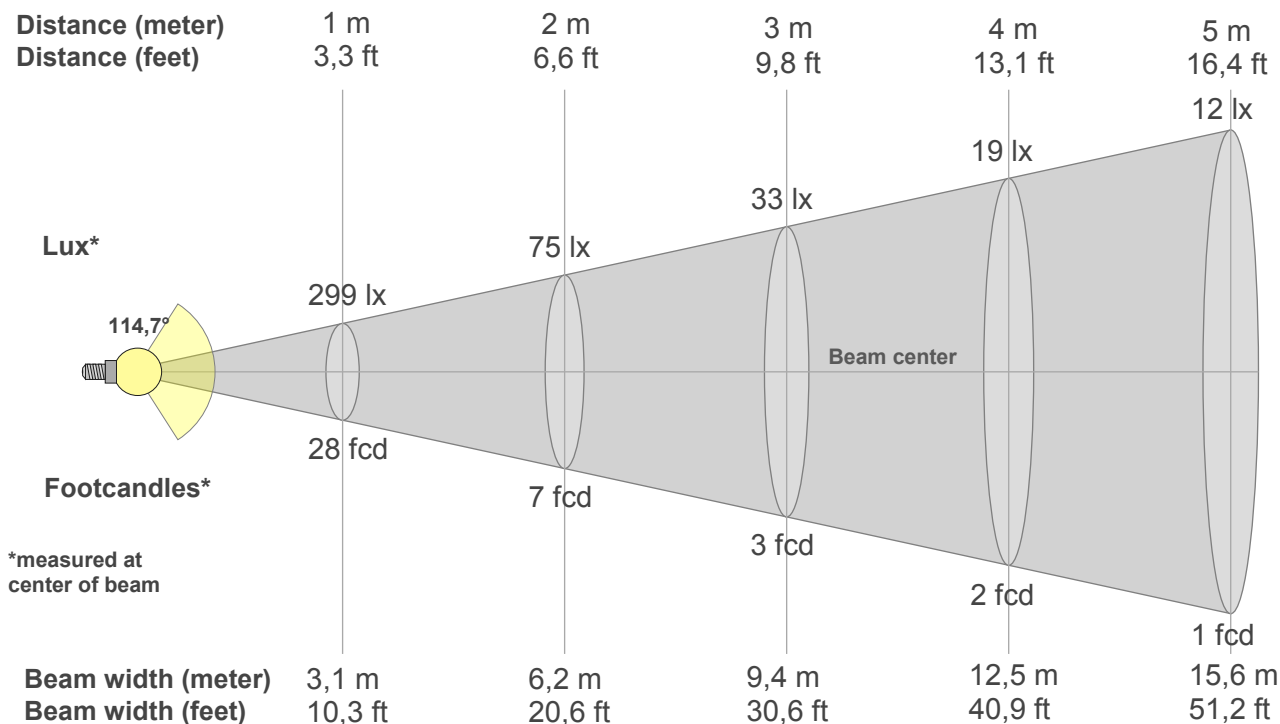
Fidelity index Rf

**Rg 98,0**

Gamut index Rg

Hue Bin	R <sub>f</sub>	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%	6%
10	85	-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
299lx	75lx	33lx	19lx	12lx	8lx	6lx	5lx	4lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx
27,8fcd	7fcd	3,1fcd	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°
299	299	296	290	281	271	260	245	229	228	213	138	117	128	98	66	41	17	4	4
100%	100%	99%	97%	94%	90%	87%	82%	76%	76%	71%	46%	39%	43%	33%	22%	14%	6%	1%	1%

## 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°
299	298	294	289	282	272	260	247	230	210	188	166	138	109	80	49	23	7	1	1
100%	99%	98%	97%	94%	91%	87%	82%	77%	70%	63%	55%	46%	36%	27%	16%	8%	2%	0%	0%

## Intensities in 180° c-plane

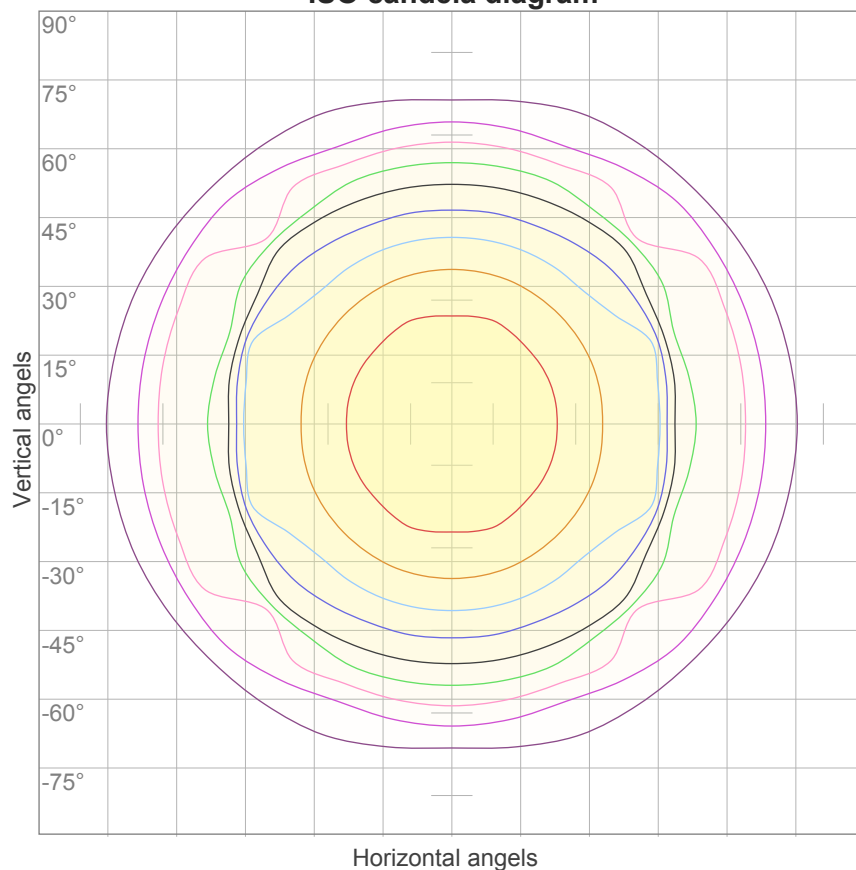
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
299	299	296	290	281	271	260	245	229	228	213	138	117	128	98	66	41	17	4	4
100%	100%	99%	97%	94%	90%	87%	82%	76%	76%	71%	46%	39%	43%	33%	22%	14%	6%	1%	1%

## 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°
299	298	294	289	282	272	260	247	230	210	188	166	138	109	80	49	23	7	1	1
100%	99%	98%	97%	94%	91%	87%	82%	77%	70%	63%	55%	46%	36%	27%	16%	8%	2%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114,7°	163,3°	175,8°	77,3%	51,9%

**ISO candela diagram**



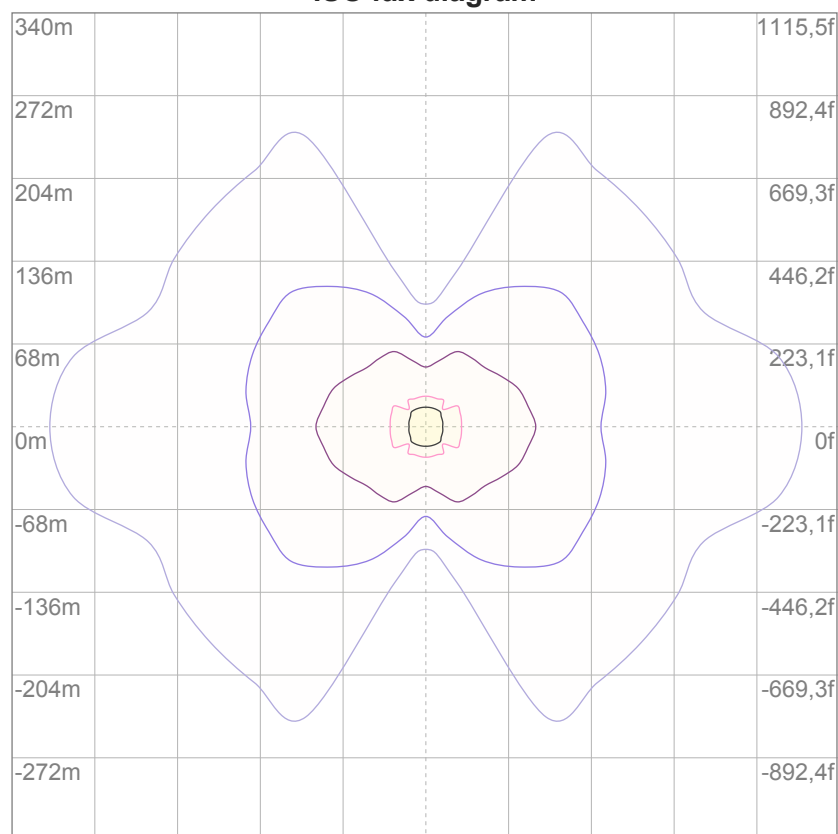
10%	30 cd
20%	60 cd
30%	90 cd
40%	120 cd
50%	150 cd
60%	180 cd
70%	210 cd
80%	240 cd
90%	270 cd

Conditions:

Number of c-planes: 16

Candela at center: 299 cd

**ISO lux diagram**



3%	89,8m lx
5%	0,150 lx
10%	0,299 lx
30%	0,898 lx
50%	1,50 lx

Conditions:

Number of c-planes: 16

Lux at center: 2,99 lx

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

### Glare Evaluation According to UGR

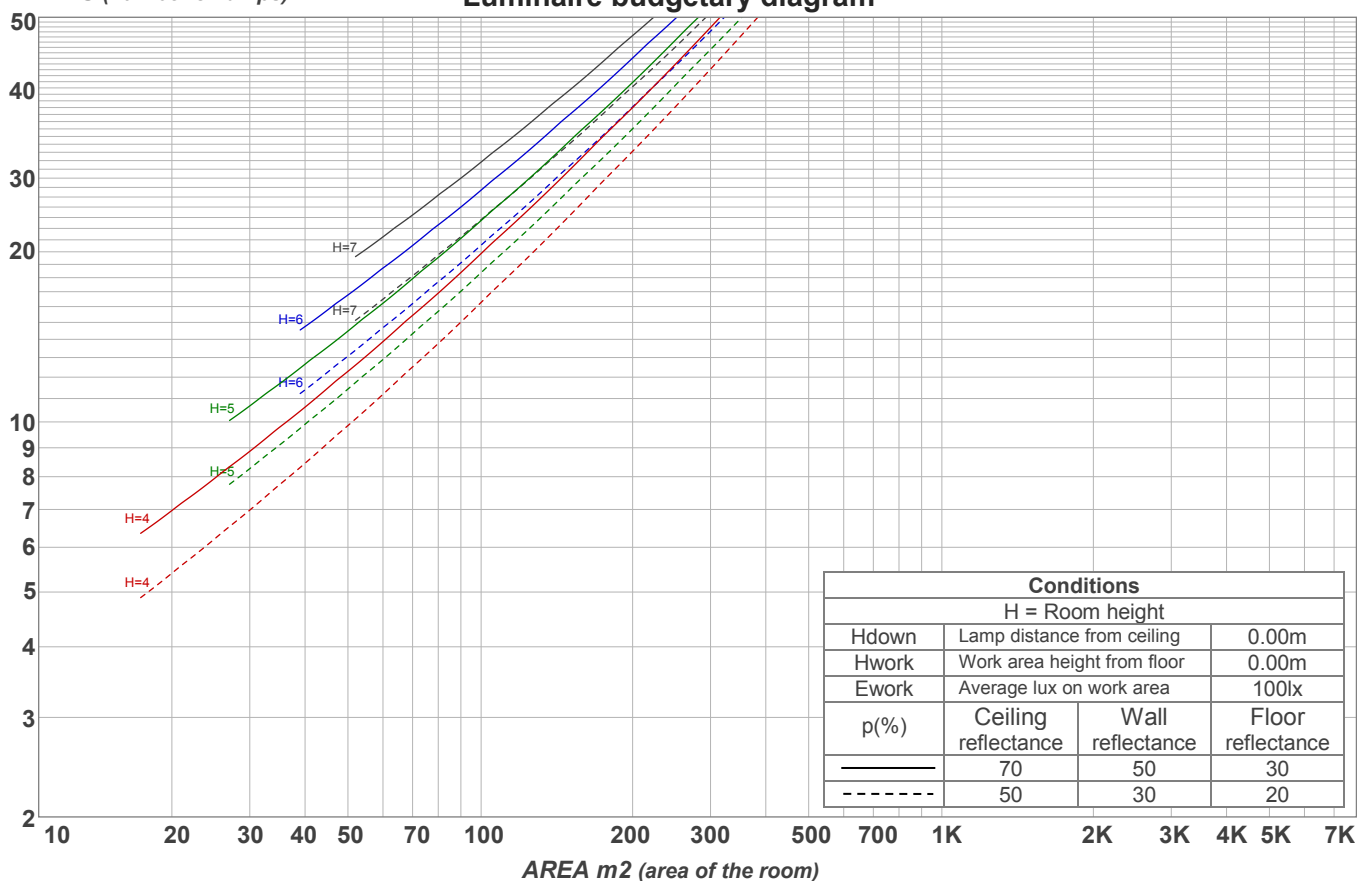
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X      Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	21,9	23,2	22,2	23,5	23,7	23,2	24,4	23,4	24,7	25,0
	3H	23,4	24,7	23,9	25,0	25,2	24,4	25,7	24,8	26,0	26,2
	4H	23,9	25,2	24,4	25,4	25,7	24,9	26,1	25,3	26,3	26,6
	6H	24,3	25,4	24,6	25,6	26,0	25,2	26,2	25,5	26,5	26,9
	8H	24,4	25,4	24,7	25,7	26,1	25,2	26,2	25,5	26,6	27,0
	12H	24,4	25,4	24,7	25,7	26,2	25,2	26,2	25,6	26,5	27,0
4H	2H	22,5	23,7	22,9	24,0	24,2	23,5	24,7	23,9	25,0	25,2
	3H	24,3	25,4	24,7	25,7	26,1	25,0	26,0	25,4	26,4	26,8
	4H	24,9	25,8	25,3	26,2	26,8	25,4	26,4	25,9	26,8	27,3
	6H	25,2	26,1	25,7	26,5	26,9	25,8	26,7	26,3	27,0	27,4
	8H	25,4	26,2	25,9	26,5	26,9	25,9	26,7	26,4	27,1	27,5
	12H	25,4	26,1	25,9	26,5	27,0	25,9	26,6	26,4	27,0	27,5
8H	4H	25,1	26,0	25,6	26,3	26,7	25,7	26,5	26,2	26,8	27,2
	6H	25,6	26,3	26,1	26,7	27,3	26,1	26,8	26,6	27,2	27,8
	8H	25,8	26,4	26,3	26,9	27,5	26,3	26,9	26,8	27,4	28,0
	12H	25,9	26,4	26,5	26,9	27,5	26,4	26,8	27,0	27,3	28,0
12H	4H	25,1	25,8	25,6	26,2	26,7	25,7	26,3	26,1	26,8	27,2
	6H	25,7	26,2	26,2	26,8	27,4	26,2	26,7	26,7	27,2	27,9
	8H	25,9	26,3	26,5	26,8	27,5	26,4	26,8	26,9	27,3	27,9
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,3 / -0,2					0,1 / -0,1				
S = 1.5H		0,6 / -0,7					0,3 / -0,4				
S = 2.0H		0,9 / -0,6					0,8 / -1,0				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 909 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	110	110	110	105	105	105	101	101	101	99
1	108	103	99	95	105	101	97	93	96	93	90	92	90	87	88	86	84	82
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	77	74	70	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	63	59	57
4	82	70	61	54	79	68	60	53	65	58	53	63	57	52	61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45	56	50	45	54	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	49	43	39	37
7	64	51	42	35	62	50	41	35	48	40	35	46	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	32	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

LAMPS (number of lamps)

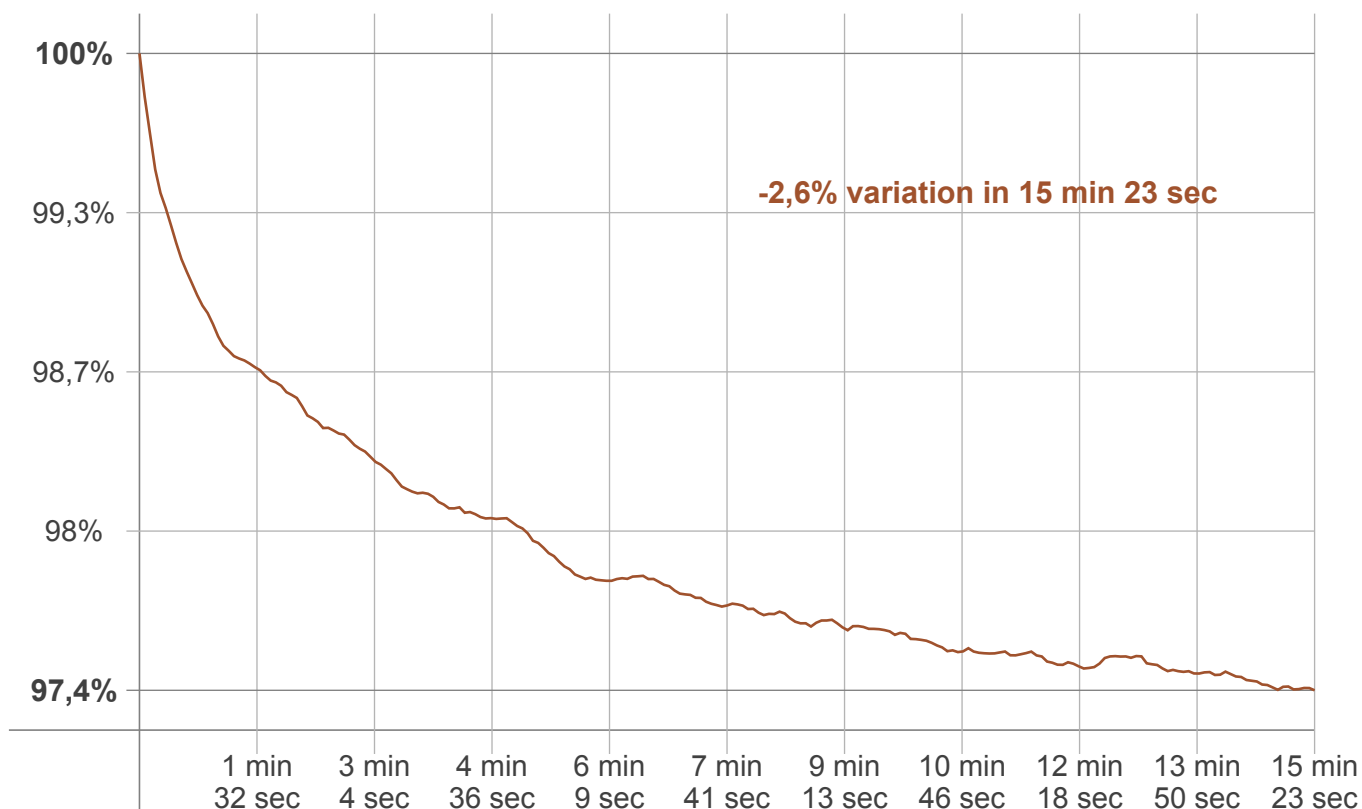
## Luminaire budgetary diagram



## Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
28,4 lm	81,9 lm	125 lm	154 lm	166 lm	147 lm	108 lm	65,5 lm	19,6 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
3,90 lm	2,19 lm	1,91 lm	1,72 lm	1,16 lm	0,762 lm	0,561 lm	0,344 lm	0,116 lm

### Warmup curve



### Warmup result

Warmup time:	15 min 23 sec
Warmup variation	-2,6%

### Warmup conditions

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

### Color temperature change

CCT start	CCT change	CCT end
3032 K	-1 K	3031 K

### Output change

Output start	Output change	Output end
929 lm	-20 lm	909 lm