

### Light efficiency:

87 Lumen/Watt

### Light quality:

CRI: 92,2

### Color temperature:

3023 K

Output: 881 lm

Peak: 408 cd

Power: 10,1 W

PF: 1,0



### Product name:

**Pegasus-3-Gold-0508-930-L6F**

### Item number:

**FLNP/L/16A0508/930/L6F**

### Date and time:

**05.05.2021 12:19:04**

### Description:

**Rank: M27ZT**

**Toleranzen:**

**Lumen +/-4%**

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

**Colour Temp +/-35 K**

**CRI +/- 0,7**

**Angular Resolution 1 Grad step**

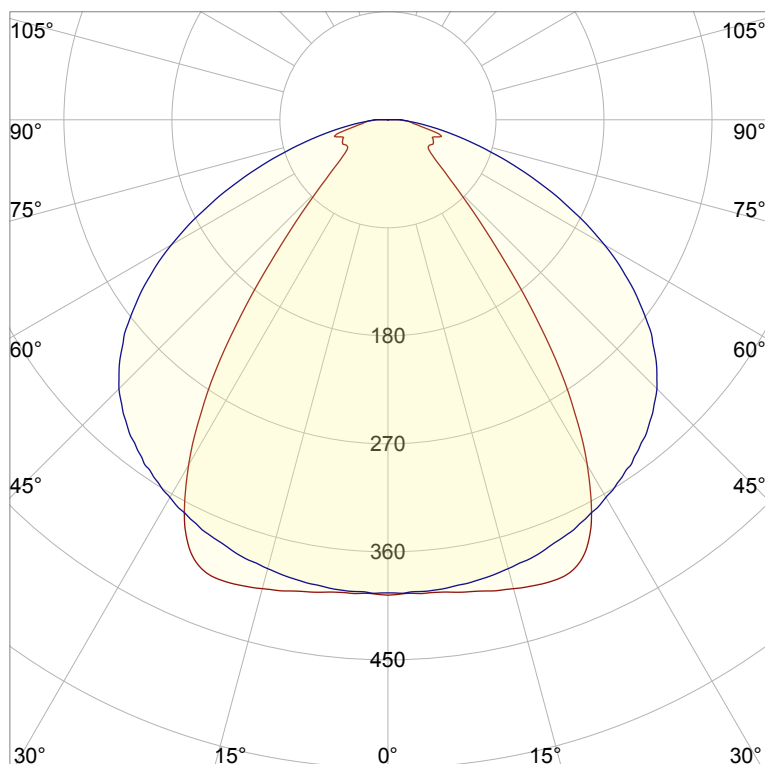
**Last Calibration 20-05-2020**

**Pruefer: Peter Ulrich**

**Pruefort: Lichtlabor**

**Gaustrasse13**

**55411 Bingen am Rhein**

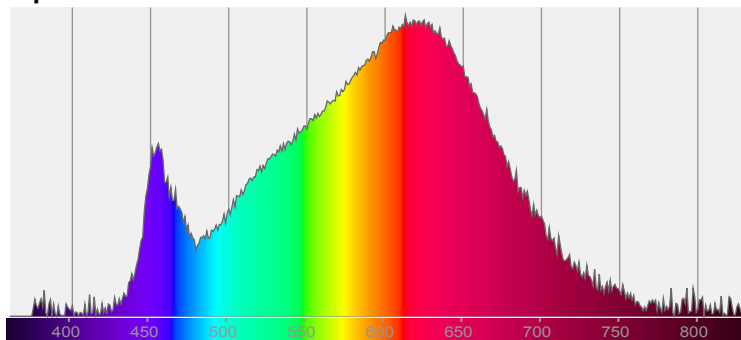


CIE 1931

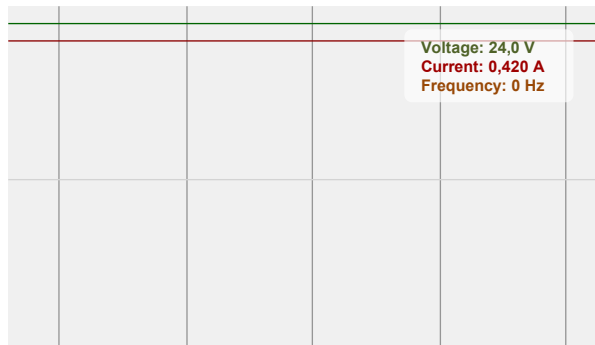
x: 0,434

y: 0,399

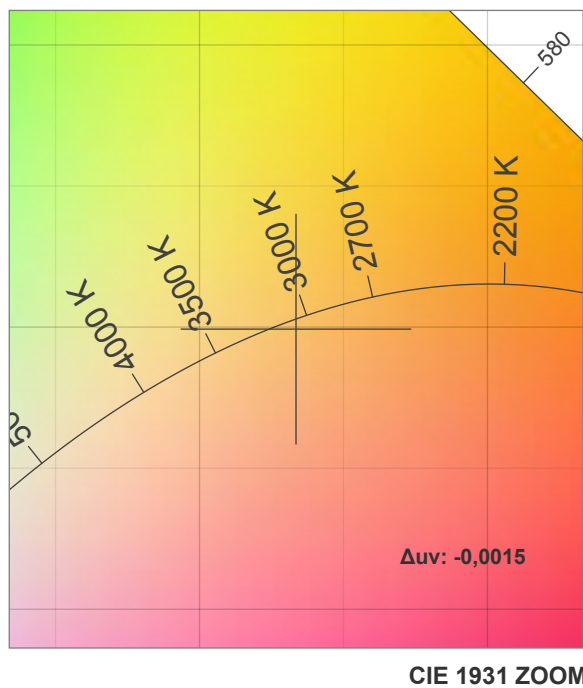
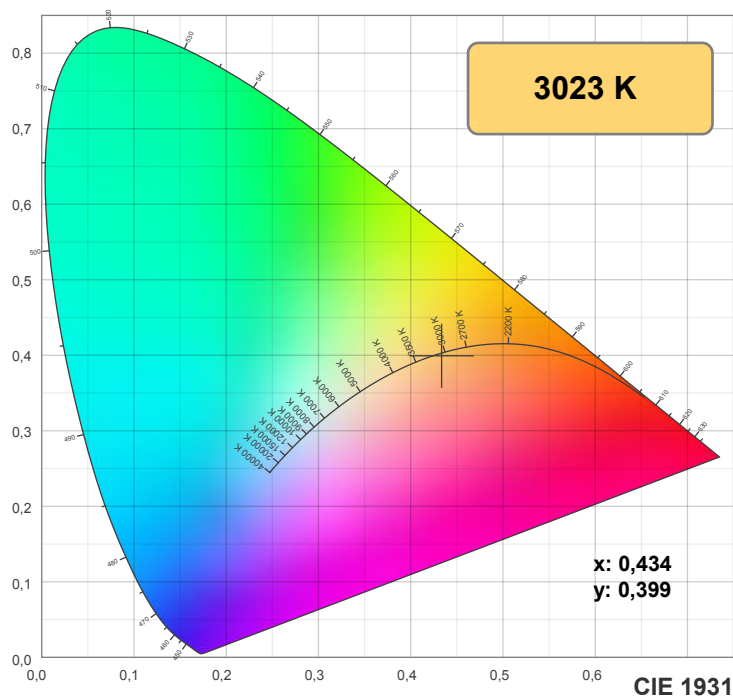
### Spectra



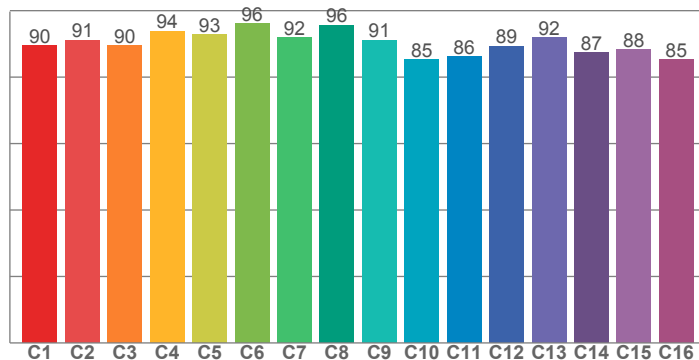
### Power



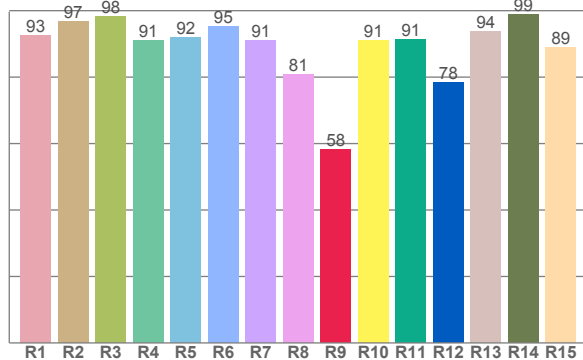
Voltage: 24,0 V  
Current: 0,420 A  
Frequency: 0 Hz



**TM30: 90,4**



**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
92,5	96,8	98,2	91,1	91,9	95,1	91,0	80,9	58,2	91,1	91,2	78,4	93,9	98,8	88,9

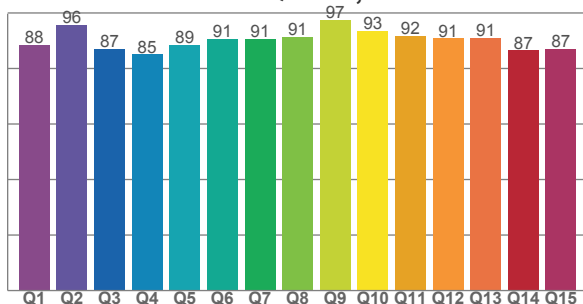
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,5	91,2	89,5	93,8	92,8	96,1	91,9	95,7	91,2	85,2	86,1	89,4	91,9	87,4	88,3	85,2

CQS Q values

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

**CQS: 89,7**



## 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
3023 K	92,2	58,2	90,4	98,3	89,7	0,434	0,399	0,250	0,346	-0,0015

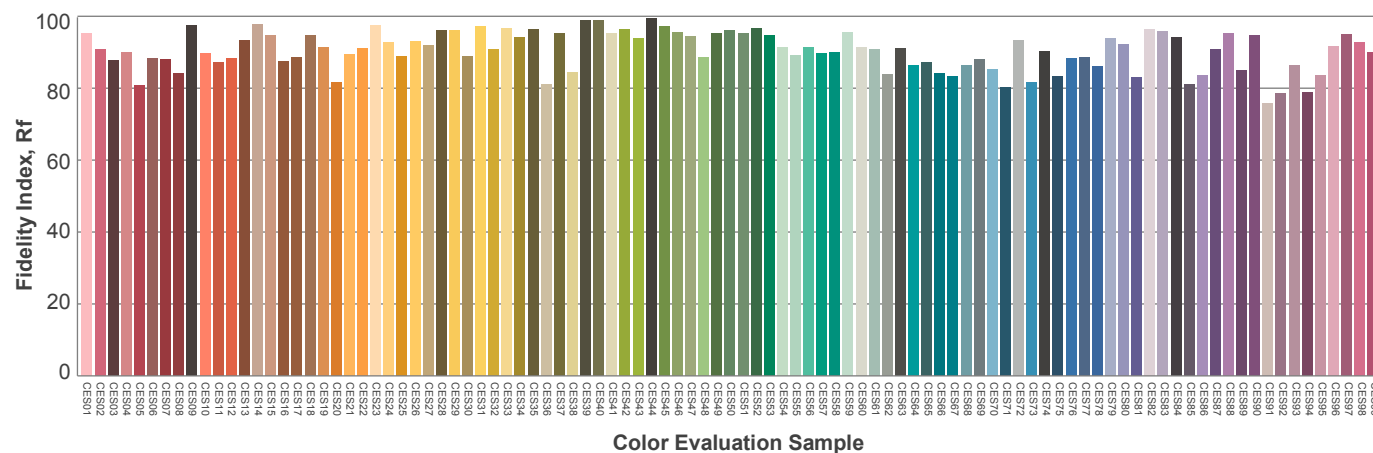
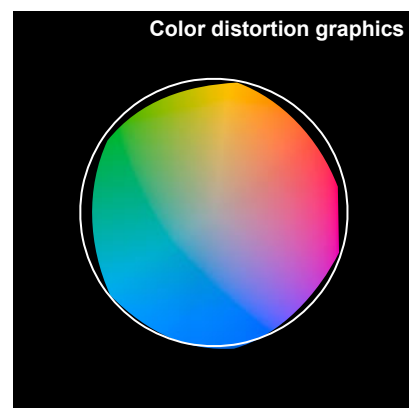
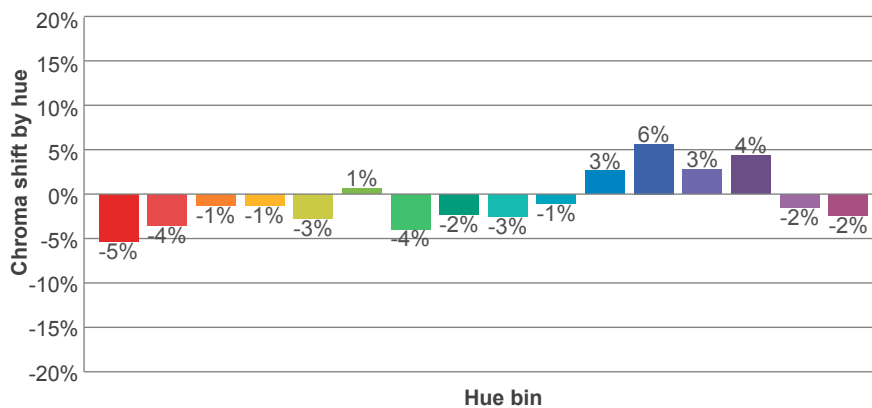
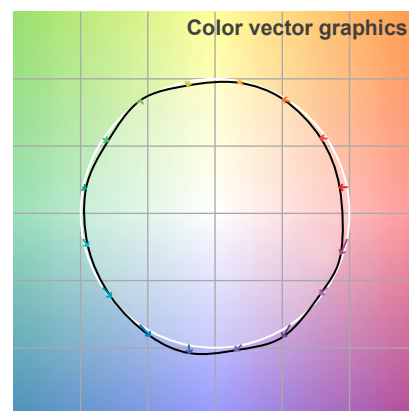
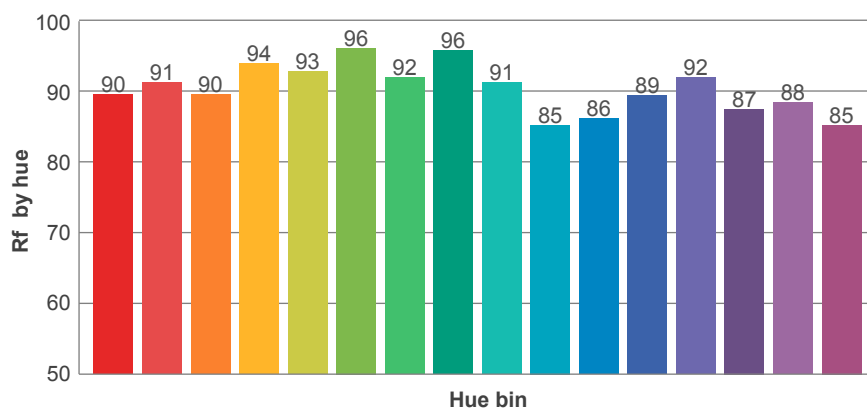
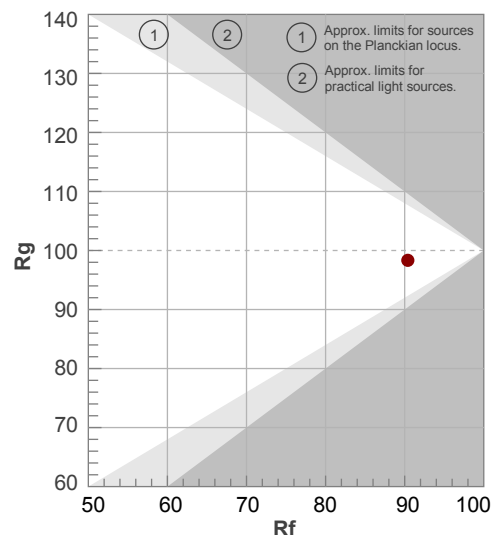
## Rf 90,4

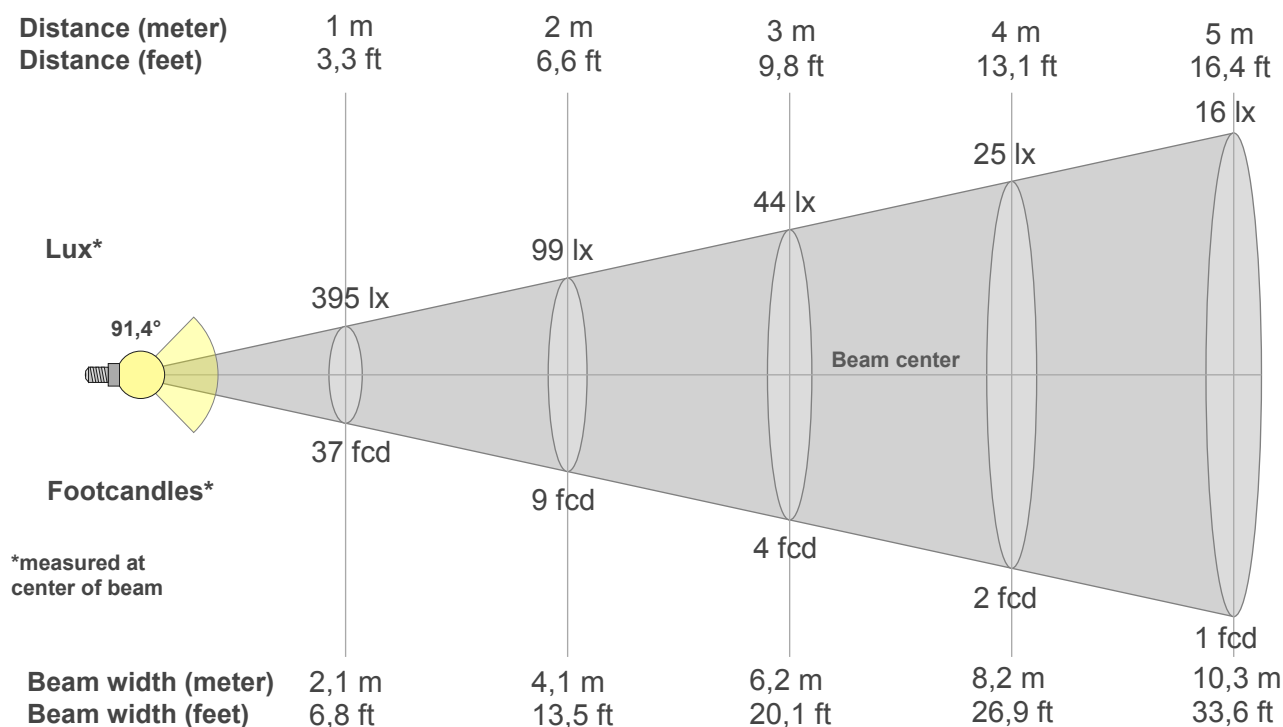
Fidelity index Rf

## Rg 98,3

Gamut index Rg

Hue Bin	R <sub>f</sub>	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%	0%
8	96	-2%	1%
9	91	-3%	5%
10	85	-1%	9%
11	86	3%	10%
12	89	6%	2%
13	92	3%	-5%
14	87	4%	-9%
15	88	-2%	-7%
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
395lx	99lx	44lx	25lx	16lx	11lx	8lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx
36,7fcd	9,2fcd	4,1fcd	2,3fcd	1,5fcd	1fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	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°
395	396	399	404	408	392	332	243	145	82	52	41	41	42	42	42	25	18	11	0
100%	100%	101%	102%	103%	99%	84%	62%	37%	21%	13%	10%	10%	11%	11%	11%	6%	4%	3%	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°
395	394	392	387	381	373	363	352	337	317	288	251	208	160	112	71	40	19	4	0
100%	100%	99%	98%	96%	94%	92%	89%	85%	80%	73%	64%	53%	40%	28%	18%	10%	5%	1%	0%

## Intensities in 180° c-plane

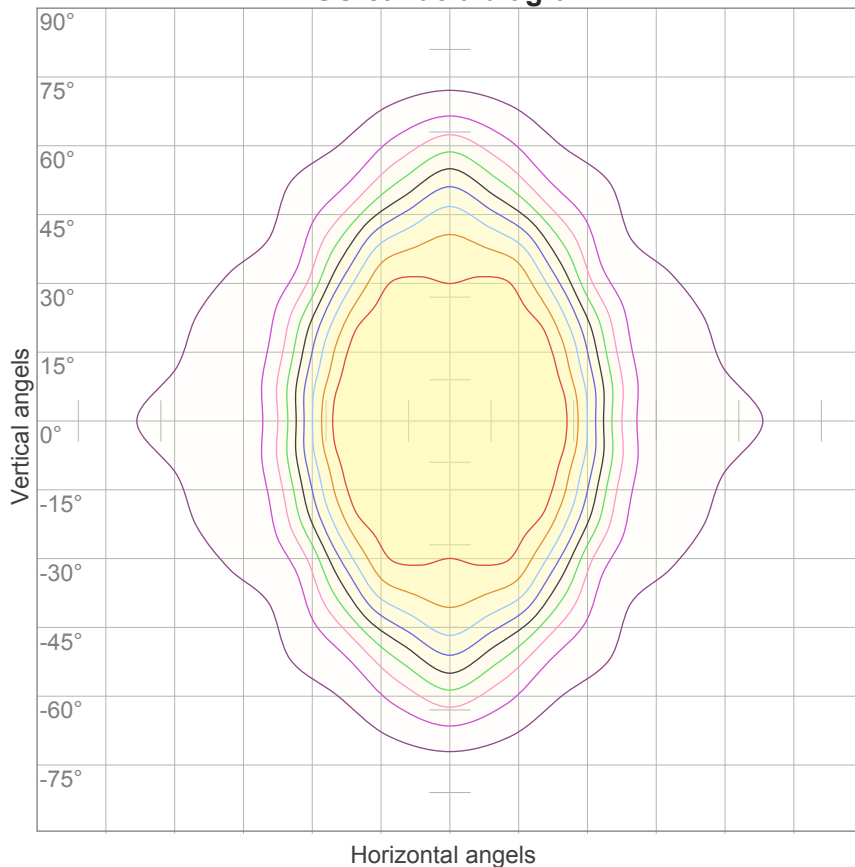
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
395	396	399	404	408	392	332	243	145	82	52	41	41	42	42	42	25	18	11	0
100%	100%	101%	102%	103%	99%	84%	62%	37%	21%	13%	10%	10%	11%	11%	11%	6%	4%	3%	0%

## 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°
395	394	392	387	381	373	363	352	337	317	288	251	208	160	112	71	40	19	4	0
100%	100%	99%	98%	96%	94%	92%	89%	85%	80%	73%	64%	53%	40%	28%	18%	10%	5%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
91,4°	138,6°	179,7°	86,3%	68,2%

### ISO candela diagram



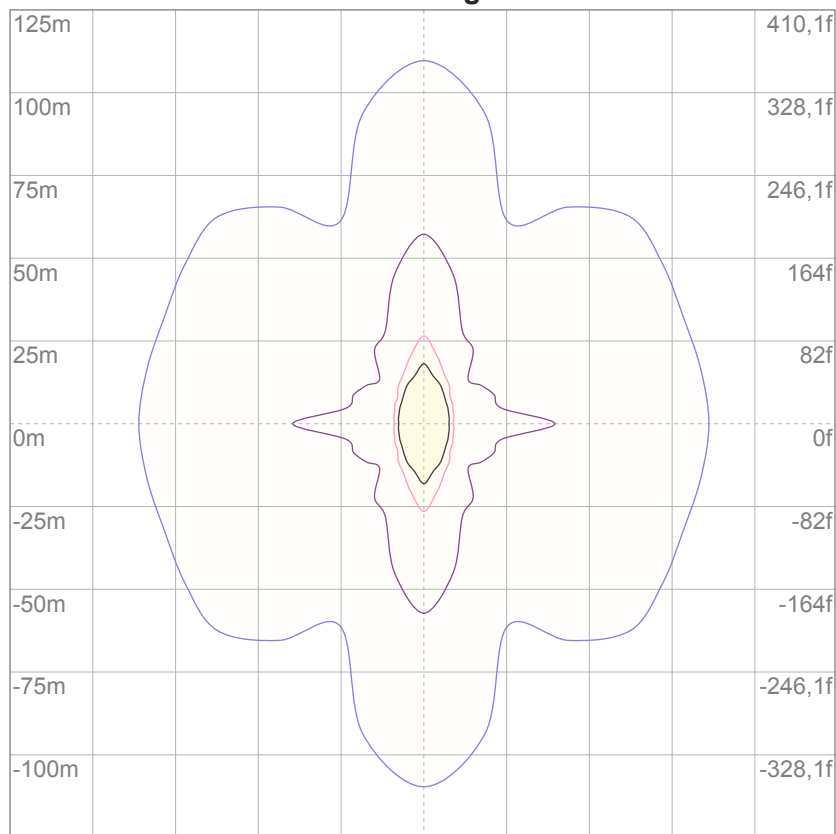
10%	40 cd
20%	79 cd
30%	119 cd
40%	158 cd
50%	198 cd
60%	237 cd
70%	277 cd
80%	316 cd
90%	356 cd

#### Conditions:

Number of c-planes: 16

Candela at center: 395 cd

### ISO lux diagram



3%	0,119 lx
5%	0,198 lx
10%	0,395 lx
30%	1,19 lx
50%	1,98 lx

#### Conditions:

Number of c-planes: 16

Lux at center: 3,95 lx

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

### Glare Evaluation According to UGR

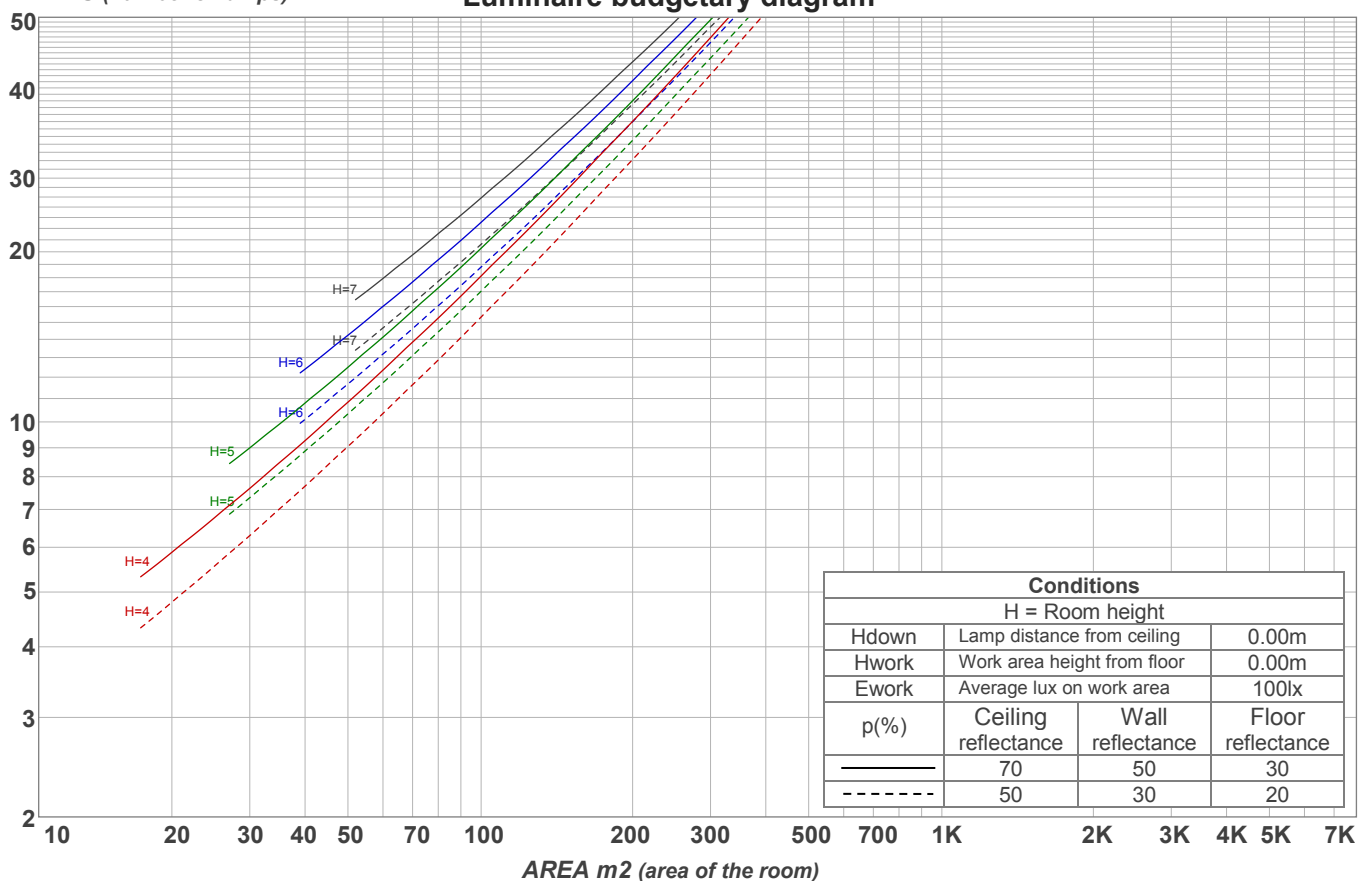
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X      Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	16,9	17,9	17,1	18,2	18,4	24,1	25,2	24,3	25,5	25,7
	3H	17,8	18,9	18,2	19,2	19,4	25,3	26,4	25,7	26,6	26,8
	4H	18,6	19,7	19,1	20,0	20,2	25,8	26,8	26,2	27,1	27,3
	6H	19,3	20,2	19,6	20,5	20,8	26,2	27,1	26,5	27,4	27,8
	8H	19,4	20,3	19,7	20,6	21,0	26,3	27,2	26,7	27,5	27,9
	12H	19,5	20,4	19,9	20,8	21,2	26,4	27,3	26,8	27,6	28,1
4H	2H	17,4	18,5	17,8	18,7	19,0	23,9	24,9	24,3	25,2	25,4
	3H	18,6	19,5	19,0	19,8	20,3	25,2	26,1	25,6	26,4	26,9
	4H	19,6	20,4	20,0	20,8	21,3	25,7	26,5	26,2	26,9	27,5
	6H	20,2	21,0	20,7	21,4	21,8	26,2	27,0	26,7	27,3	27,7
	8H	20,5	21,2	21,0	21,6	21,9	26,4	27,1	26,9	27,4	27,8
	12H	20,7	21,3	21,2	21,7	22,2	26,5	27,1	27,0	27,5	28,0
8H	4H	19,9	20,6	20,4	21,0	21,3	25,7	26,4	26,2	26,7	27,1
	6H	20,8	21,3	21,3	21,8	22,3	26,2	26,7	26,7	27,2	27,7
	8H	21,1	21,6	21,6	22,1	22,7	26,4	26,9	27,0	27,4	28,1
	12H	21,4	21,8	22,0	22,3	22,9	26,7	27,0	27,2	27,6	28,2
12H	4H	19,9	20,5	20,4	20,9	21,4	25,6	26,2	26,1	26,6	27,1
	6H	20,9	21,4	21,4	21,9	22,5	26,2	26,7	26,7	27,2	27,8
	8H	21,3	21,7	21,8	22,2	22,8	26,4	26,8	27,0	27,3	27,9
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,6 / -0,5					0,4 / -0,5				
S = 1.5H		1,3 / -0,6					1,3 / -1,7				
S = 2.0H		1,8 / -0,9					2,3 / -2,7				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 881 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	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	87	76	68	62	84	75	67	61	72	66	61	70	64	60	68	63	59	57
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	63	54	49	73	62	54	48	60	53	48	58	52	48	57	51	47	45
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	43	41
8	65	53	45	39	64	52	44	39	51	44	39	50	43	39	48	43	39	37
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34
10	58	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31

LAMPS (number of lamps)

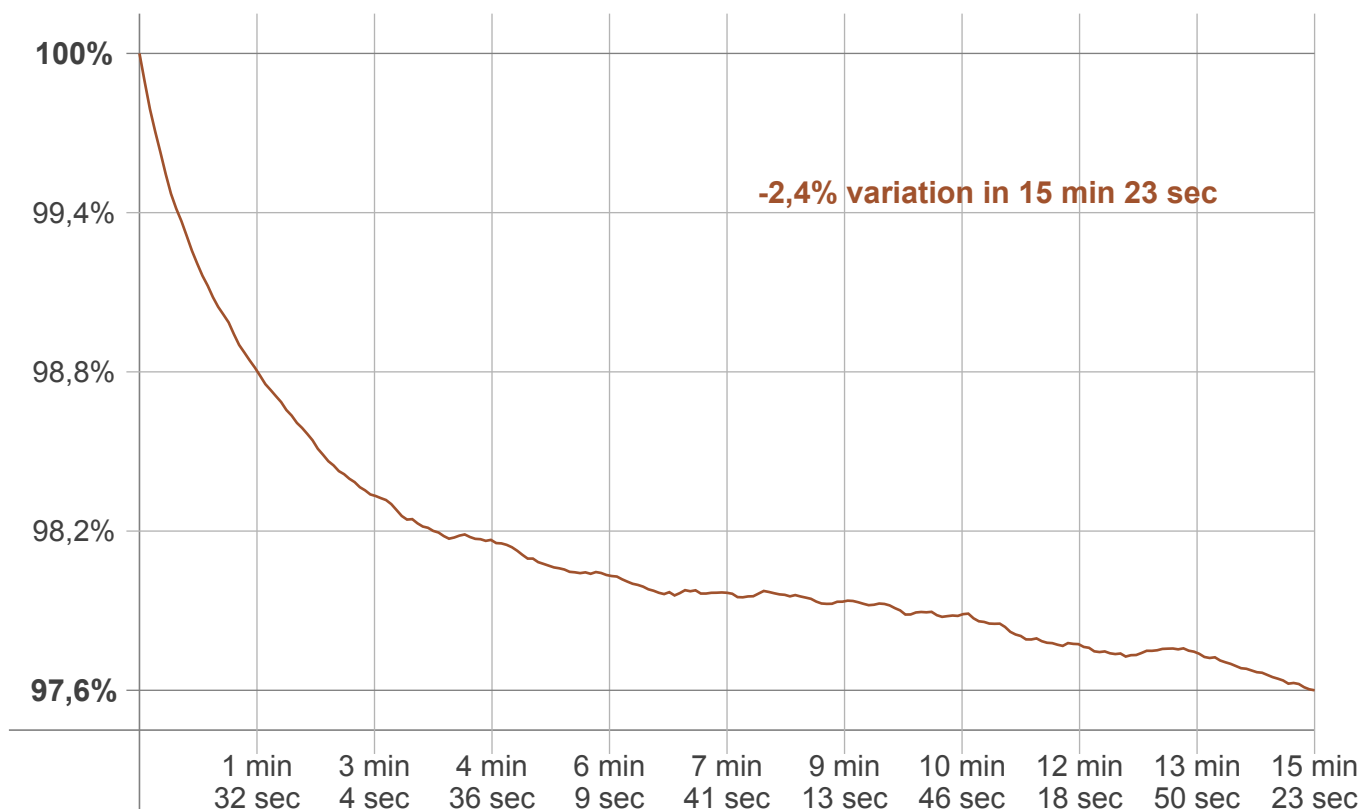
## Luminaire budgetary diagram



## Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
37,8 lm	113 lm	177 lm	193 lm	147 lm	93,4 lm	61,0 lm	39,9 lm	19,8 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,025 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm

### Warmup curve



### Warmup result

Warmup time:	15 min 23 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
3028 K	-5 K	3023 K

### Output change

Output start	Output change	Output end
900 lm	-19 lm	881 lm