

### Light efficiency:

**103 Lumen/Watt**

### Light quality:

**CRI: 91,6**

### Color temperature:

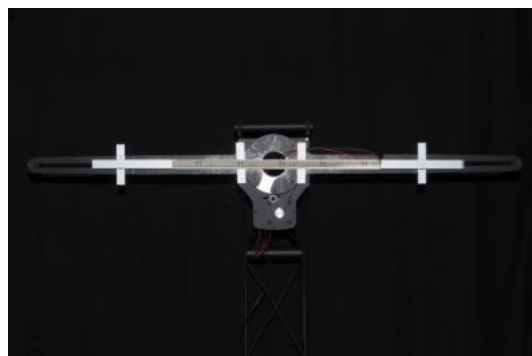
**5957 K**

**Output: 1033 lm**

**Peak: 1550 cd**

**Power: 10,1 W**

**PF: 1,0**



### Product name:

**Pegasus-4-0508-956-L3T**

### Item number:

**FLNP/L/09D0508/956/L3T**

### Date and time:

**08.04.2021 15:16:27**

### Description:

**Rank: G7-2G0**

**Toleranzen:**

**Lumen +/-4%**

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

**Colour Temp +/-35 K**

**CRI +/-0,7**

**Angular Resolution 1 Grad step**

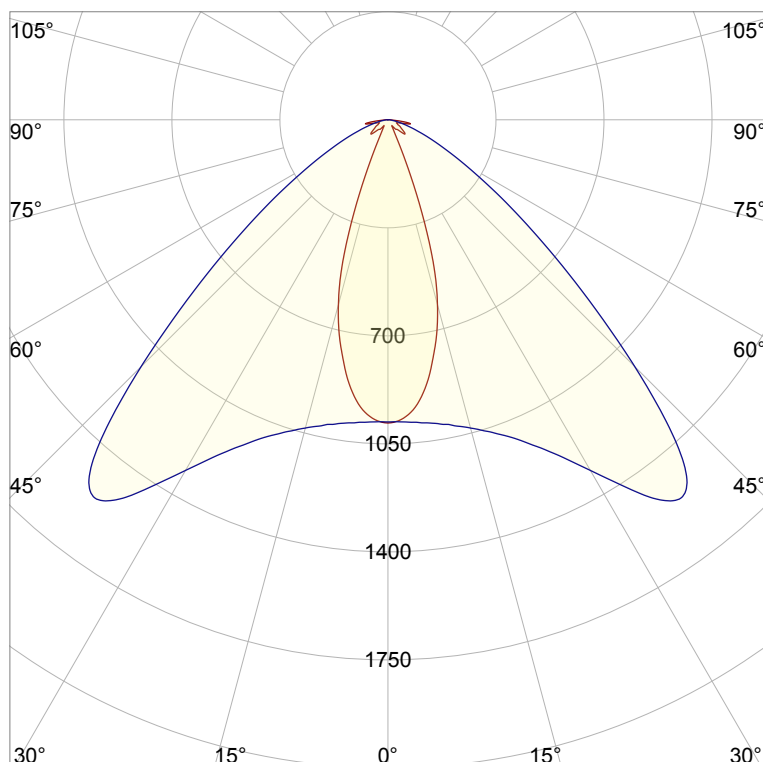
**Last Calibration 20-05-2020**

**Pruefer: Peter Ulrich**

**Pruefort: Lichtlabor**

**Gaustrasse 13**

**55411 Bingen am Rhein**

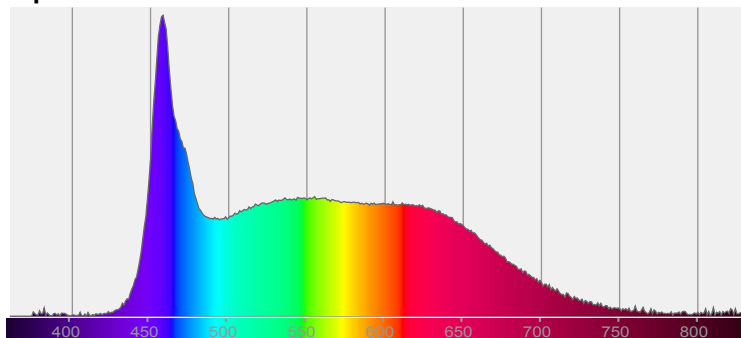


**CIE 1931**

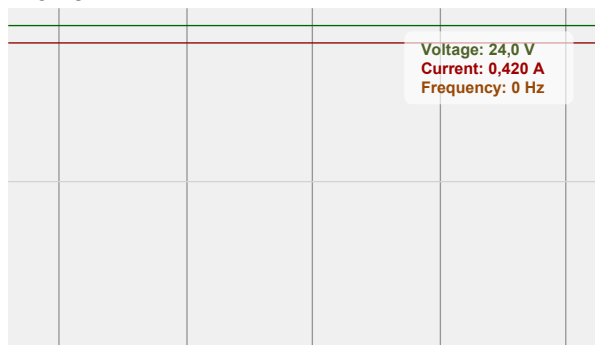
**x: 0,323**

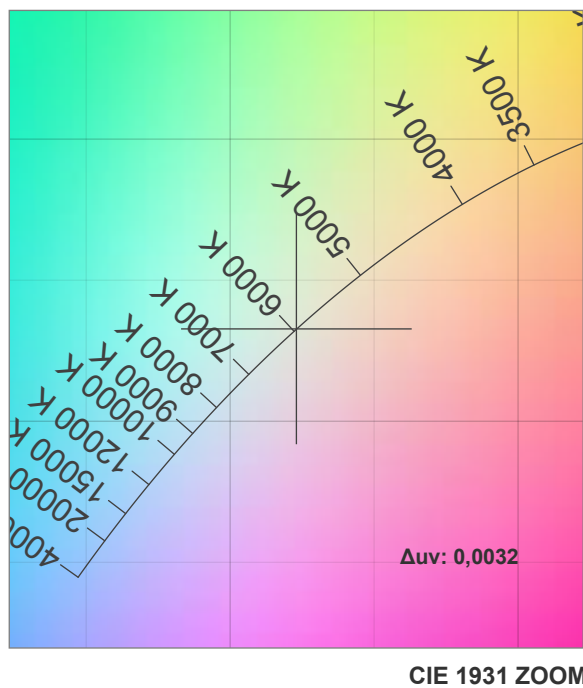
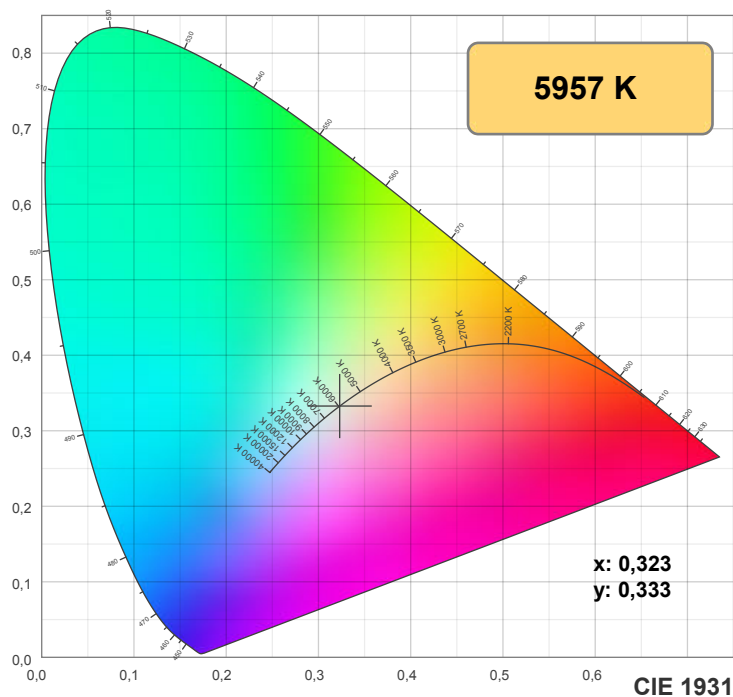
**y: 0,333**

### Spectra

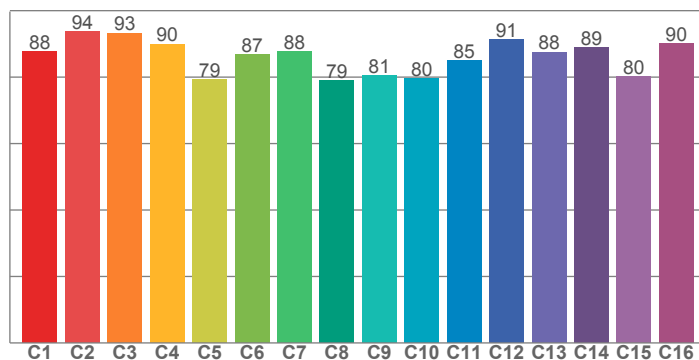


### Power

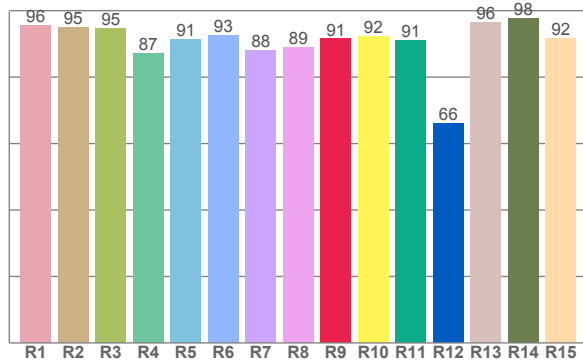




TM30: 86,0



CRI: 91,6 (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
95,5	94,9	94,6	87,0	91,5	92,5	88,1	89,0	91,5	92,2	91,0	66,0	96,3	97,8	91,8

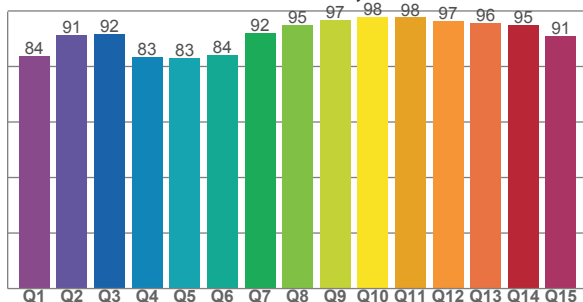
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,6	93,8	93,3	90,0	79,3	86,7	87,7	79,0	80,5	79,6	85,0	91,2	87,6	89,0	80,1	90,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83,7	91,5	91,8	83,4	83,0	84,1	92,2	95,1	96,8	97,8	97,6	96,5	95,6	95,1	91,1

CQS: 90,1



## 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
5957 K	91,6	91,5	86,0	94,7	90,1	0,323	0,333	0,204	0,315	0,0032

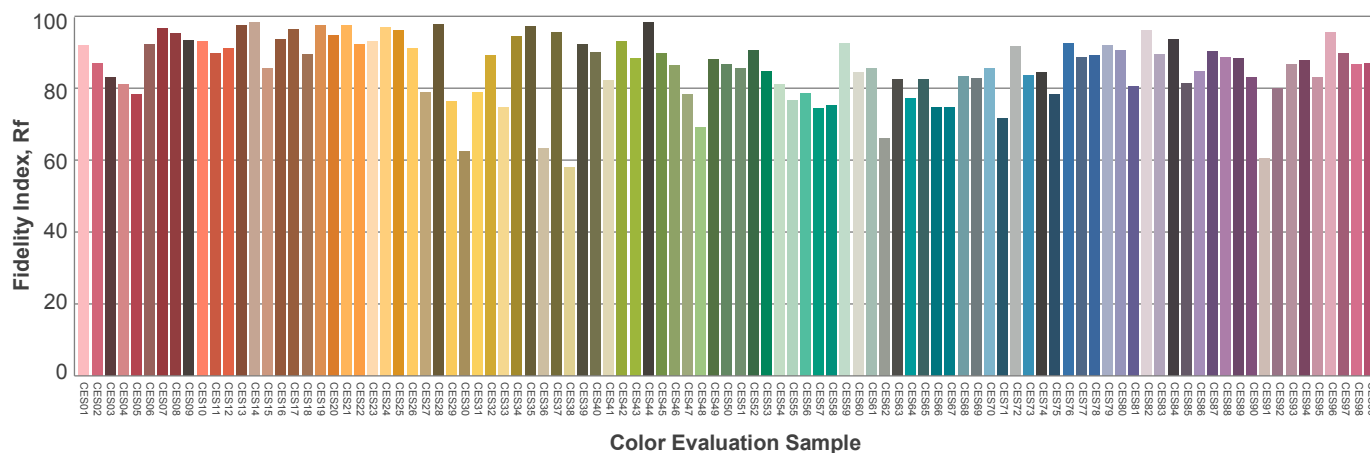
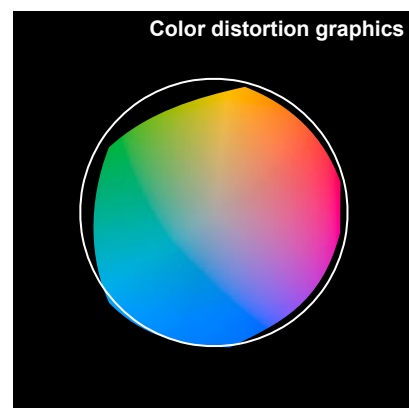
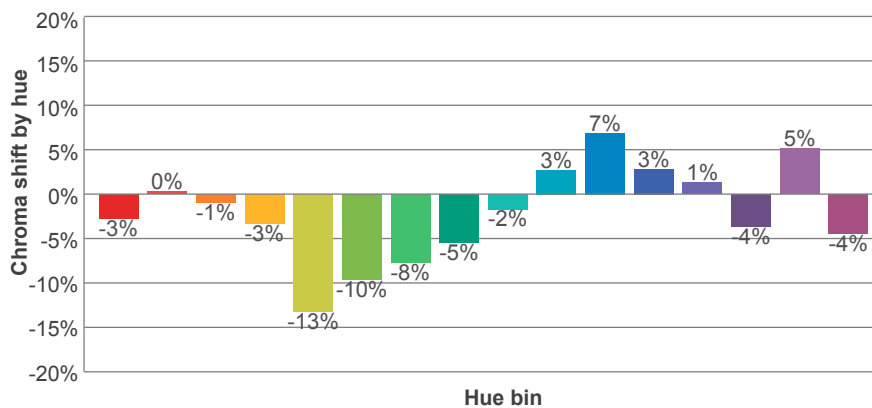
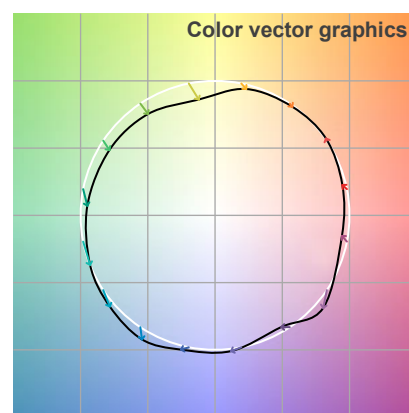
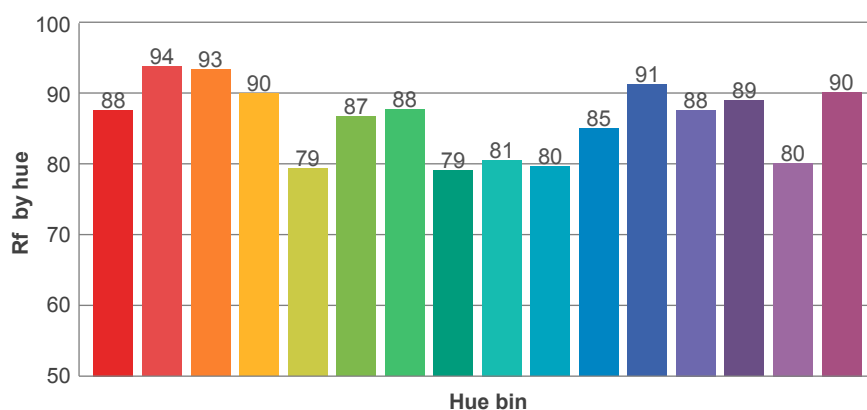
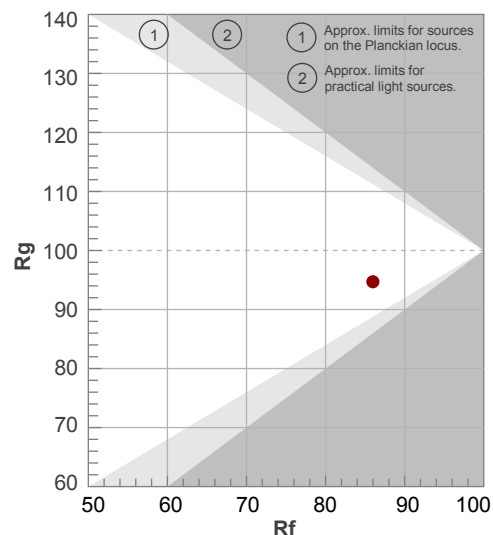
## Rf 86,0

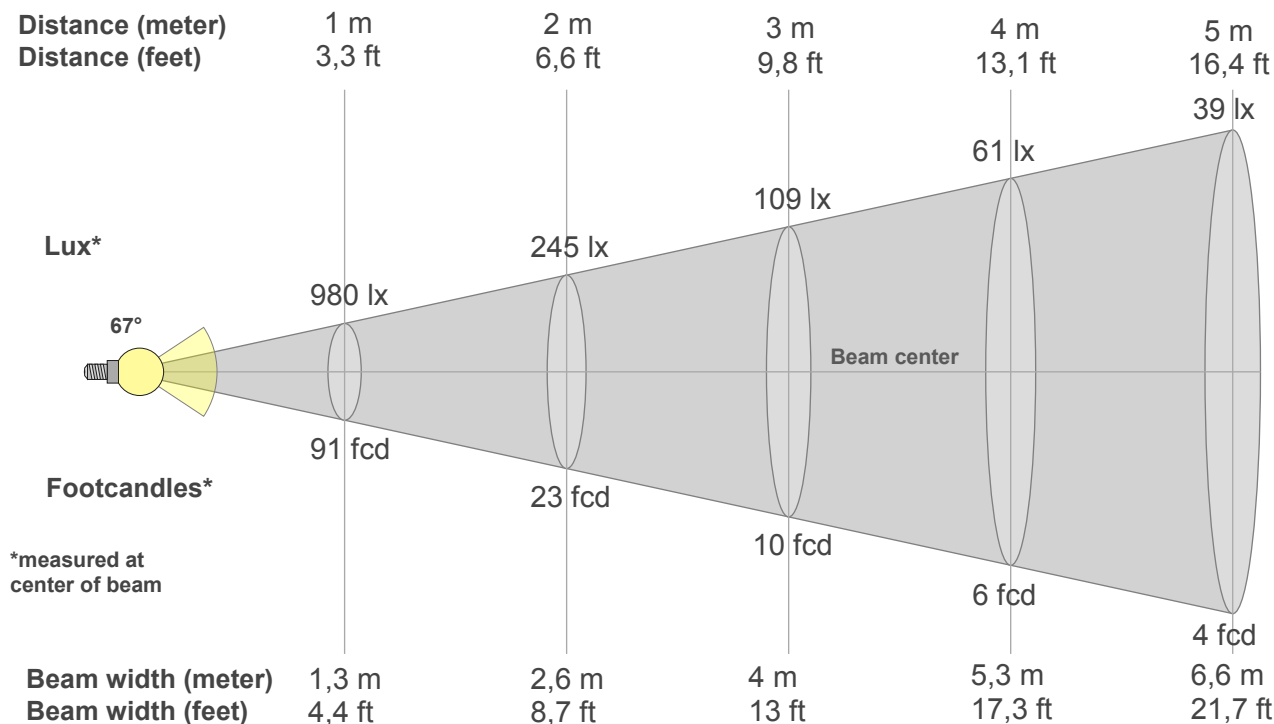
Fidelity index Rf

## Rg 94,7

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	88	-3%	4%
2	94	0%	2%
3	93	-1%	-3%
4	90	-3%	-4%
5	79	-13%	-5%
6	87	-10%	0%
7	88	-8%	3%
8	79	-5%	11%
9	81	-2%	18%
10	80	3%	13%
11	85	7%	6%
12	91	3%	-5%
13	88	1%	-8%
14	89	-4%	-5%
15	80	5%	-13%
16	90	-4%	3%





## 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
980lx	245lx	109lx	61lx	39lx	27lx	20lx	15lx	12lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx
91fcd	22,8fcd	10,1fcd	5,7fcd	3,6fcd	2,5fcd	1,9fcd	1,4fcd	1,1fcd	0,9fcd	0,8fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,3fcd	0,2fcd

## Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
980	975	956	923	874	811	741	664	573	459	324	198	108	59	40	30	24	23	27	34
100%	100%	98%	94%	89%	83%	76%	68%	58%	47%	33%	20%	11%	6%	4%	3%	2%	2%	3%	3%

## Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
980	979	982	987	992	1001	1012	1026	1043	1063	1087	1116	1154	1197	1249	1312	1383	1460	1524	1548
100%	100%	100%	101%	101%	102%	103%	105%	106%	108%	111%	114%	118%	122%	128%	134%	141%	149%	156%	158%

## Intensities in 180° c-plane

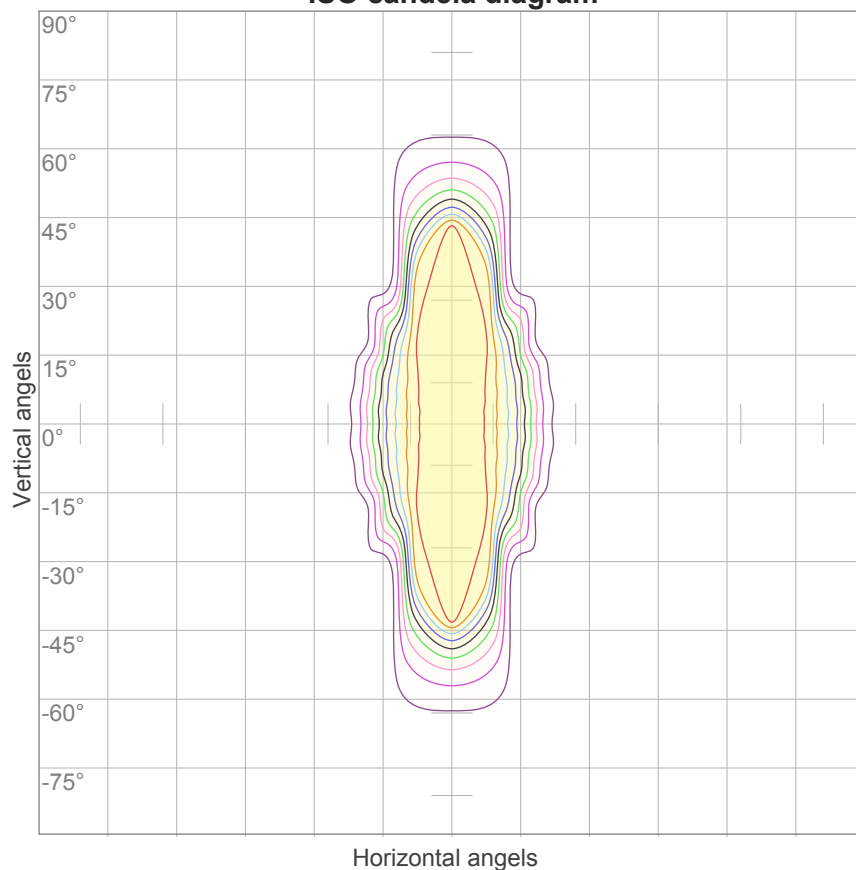
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
980	975	956	923	874	811	741	664	573	459	324	198	108	59	40	30	24	23	27	34
100%	100%	98%	94%	89%	83%	76%	68%	58%	47%	33%	20%	11%	6%	4%	3%	2%	2%	3%	3%

## Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
980	979	982	987	992	1001	1012	1026	1043	1063	1087	1116	1154	1197	1249	1312	1383	1460	1524	1548
100%	100%	100%	101%	101%	102%	103%	105%	106%	108%	111%	114%	118%	122%	128%	134%	141%	149%	156%	158%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
67°	90°	161,2°	88,7%	74,0%

### ISO candela diagram



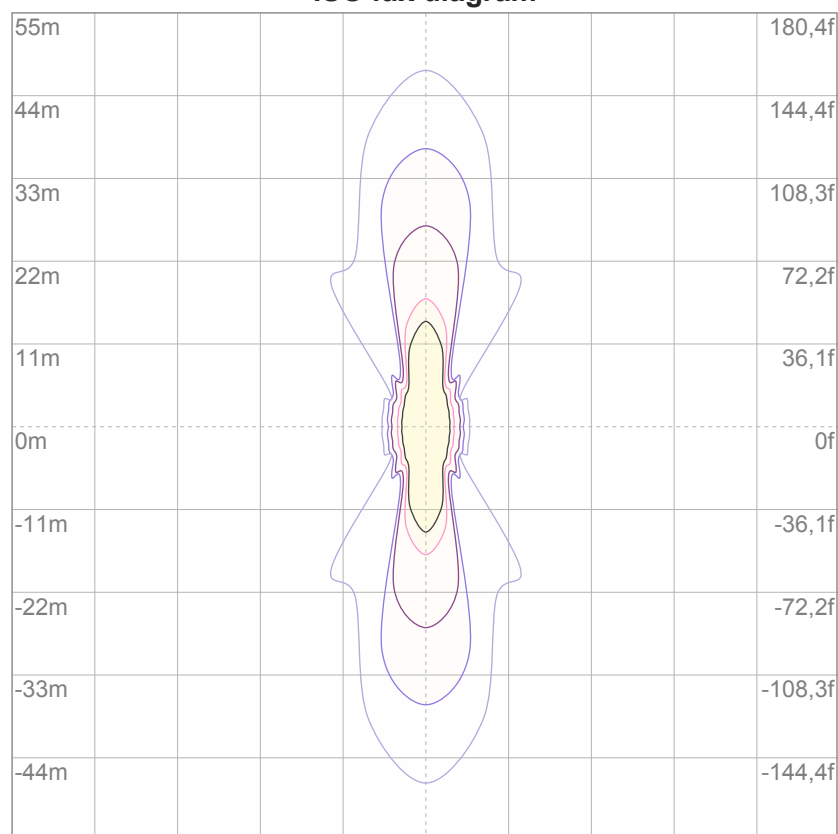
10%	98 cd
20%	196 cd
30%	294 cd
40%	392 cd
50%	490 cd
60%	588 cd
70%	686 cd
80%	784 cd
90%	882 cd

#### Conditions:

Number of c-planes: 16

Candela at center: 980 cd

### ISO lux diagram



3%	0,294 lx
5%	0,490 lx
10%	0,980 lx
30%	2,94 lx
50%	4,90 lx

#### Conditions:

Number of c-planes: 16

Lux at center: 9,80 lx

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

### Glare Evaluation According to UGR

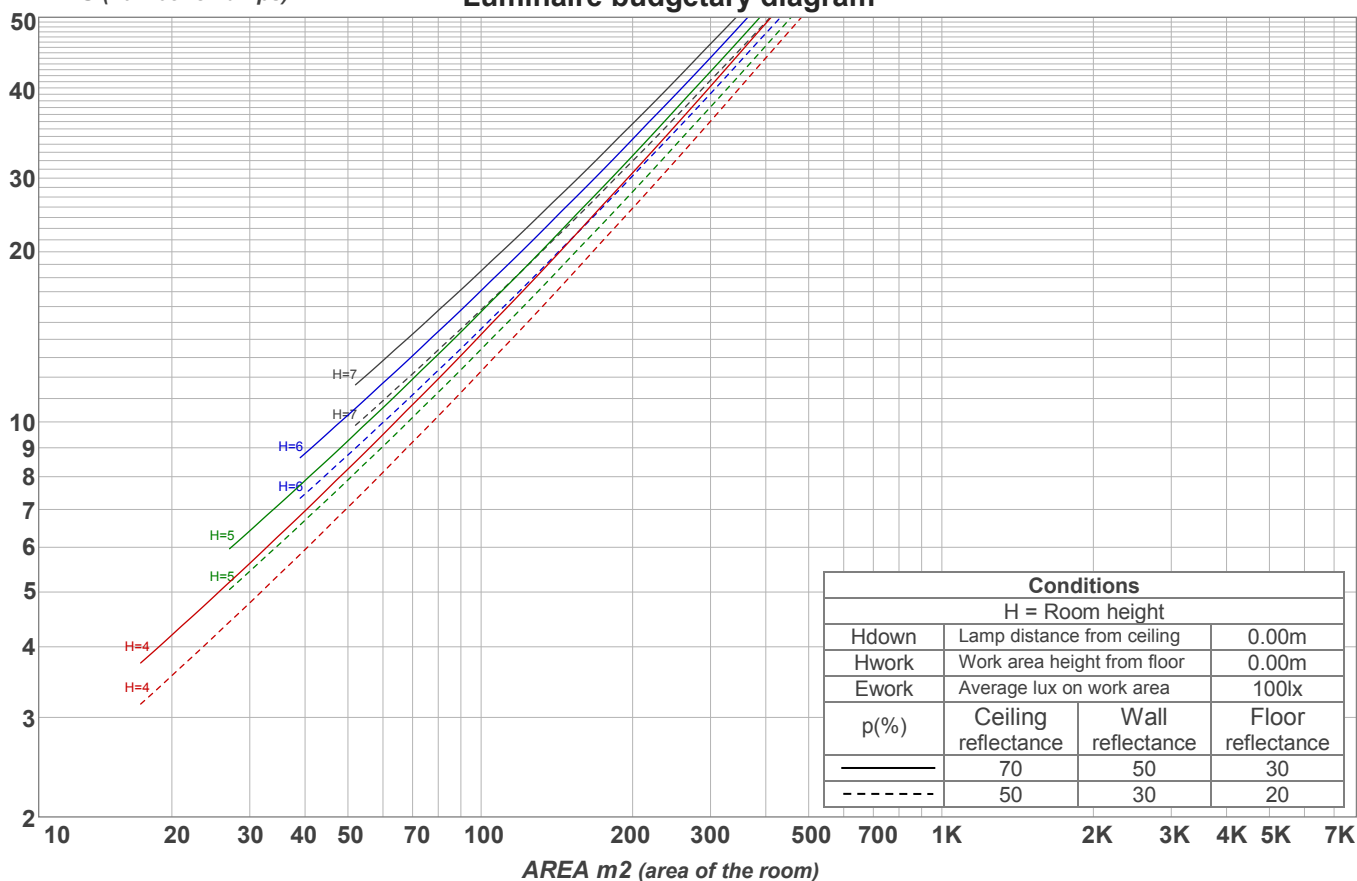
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X      Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	13,1	14,0	13,3	14,3	14,5	26,2	27,1	26,3	27,3	27,5
	3H	14,4	15,4	14,8	15,7	15,8	26,4	27,4	26,8	27,7	27,9
	4H	15,6	16,6	16,0	16,9	17,1	26,5	27,5	26,9	27,7	28,0
	6H	19,0	19,8	19,3	20,1	20,5	26,6	27,4	26,9	27,7	28,1
	8H	20,2	21,0	20,5	21,3	21,7	26,6	27,4	26,9	27,7	28,1
	12H	20,6	21,4	21,0	21,7	22,1	26,6	27,3	26,9	27,7	28,1
4H	2H	13,6	14,5	14,0	14,8	15,0	25,8	26,8	26,2	27,0	27,3
	3H	15,2	16,0	15,5	16,3	16,7	26,3	27,0	26,6	27,4	27,8
	4H	16,5	17,3	17,0	17,7	18,2	26,3	27,0	26,8	27,5	28,0
	6H	20,2	20,9	20,7	21,3	21,6	26,4	27,1	26,9	27,4	27,8
	8H	21,6	22,3	22,1	22,6	23,0	26,4	27,0	26,9	27,4	27,8
	12H	22,1	22,6	22,6	23,0	23,5	26,3	26,9	26,8	27,3	27,8
8H	4H	16,8	17,5	17,4	17,9	18,2	26,2	26,9	26,7	27,2	27,6
	6H	20,9	21,4	21,4	21,8	22,4	26,3	26,8	26,8	27,2	27,8
	8H	22,6	23,0	23,1	23,5	24,1	26,4	26,8	26,9	27,3	27,9
	12H	23,2	23,5	23,8	24,0	24,7	26,4	26,7	26,9	27,2	27,8
12H	4H	16,9	17,4	17,4	17,8	18,3	26,2	26,7	26,7	27,1	27,6
	6H	21,0	21,4	21,5	21,9	22,6	26,3	26,7	26,8	27,3	27,9
	8H	22,7	23,1	23,3	23,6	24,2	26,4	26,7	26,9	27,2	27,8
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,0 / 0,0					2,6 / -3,7				
S = 1.5H		0,1 / -0,1					4,8 / -5,7				
S = 2.0H		0,3 / -0,2					6,6 / -6,7				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1033 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	101	101	101	99
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	92	91	89	87
2	103	96	91	86	101	95	90	85	91	87	83	88	84	81	85	82	79	77
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	74	71	69
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63
5	84	74	67	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57
6	79	68	61	56	78	67	60	55	66	60	55	64	59	54	62	58	54	52
7	75	63	56	51	73	63	56	51	61	55	51	60	54	50	58	54	50	48
8	71	59	52	47	69	59	52	47	57	51	47	56	50	46	55	50	46	45
9	67	55	48	44	65	55	48	44	54	48	43	53	47	43	52	47	43	41
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39

LAMPS (number of lamps)

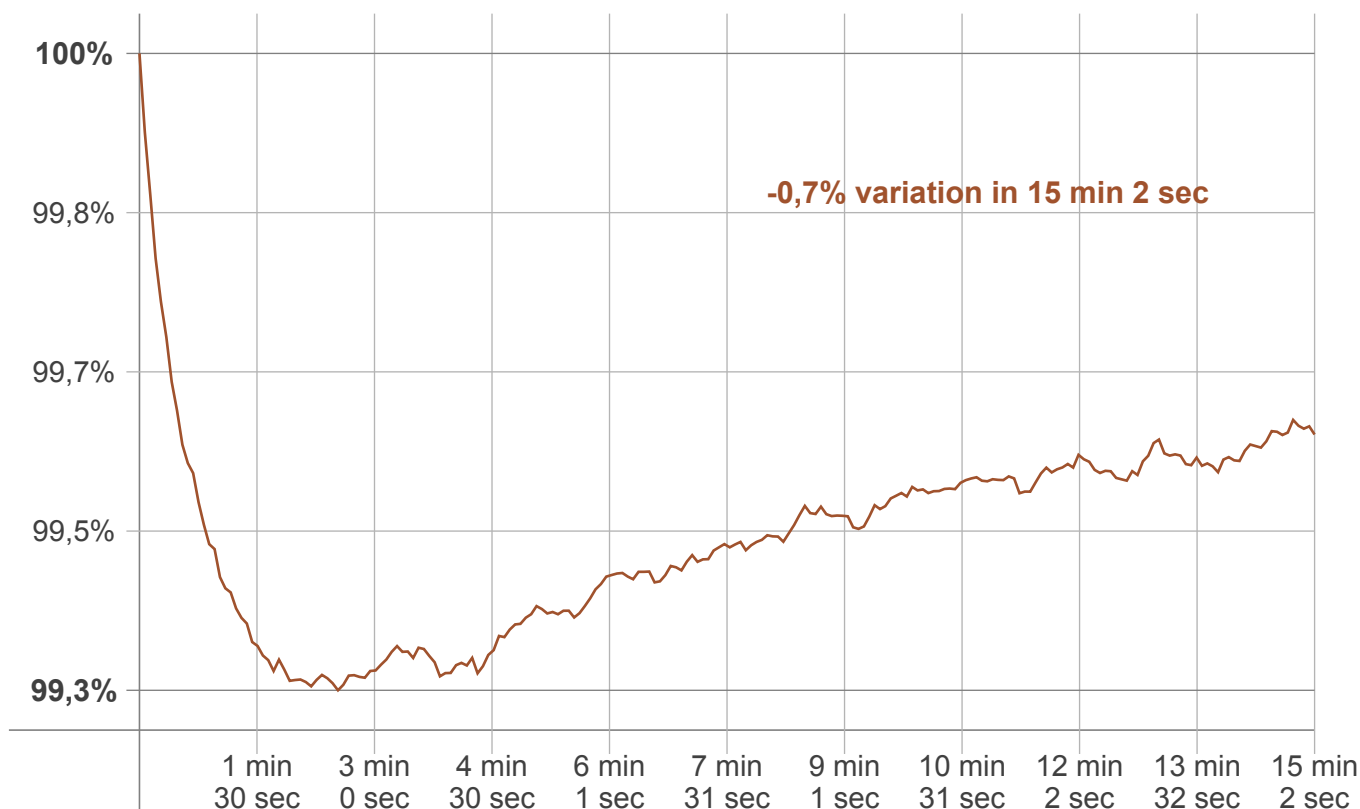
## Luminaire budgetary diagram



## Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
84,6 lm	222 lm	215 lm	168 lm	136 lm	91,7 lm	50,3 lm	29,9 lm	24,9 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,543 lm	3,93 lm	0,494 lm	0,447 lm	0,171 lm	0,000 lm	0,000 lm	0,000 lm	5,74 lm

### Warmup curve



### Warmup result

Warmup time:	15 min 2 sec
Warmup variation	-0,7%

### Warmup conditions

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

### Color temperature change

CCT start	CCT change	CCT end
5953 K	+4 K	5957 K

### Output change

Output start	Output change	Output end
1037 lm	-3 lm	1033 lm