

**Light efficiency:**

**113 Lumen/Watt**

**Light quality:**

**CRI: 92,9**

**Color temperature:**

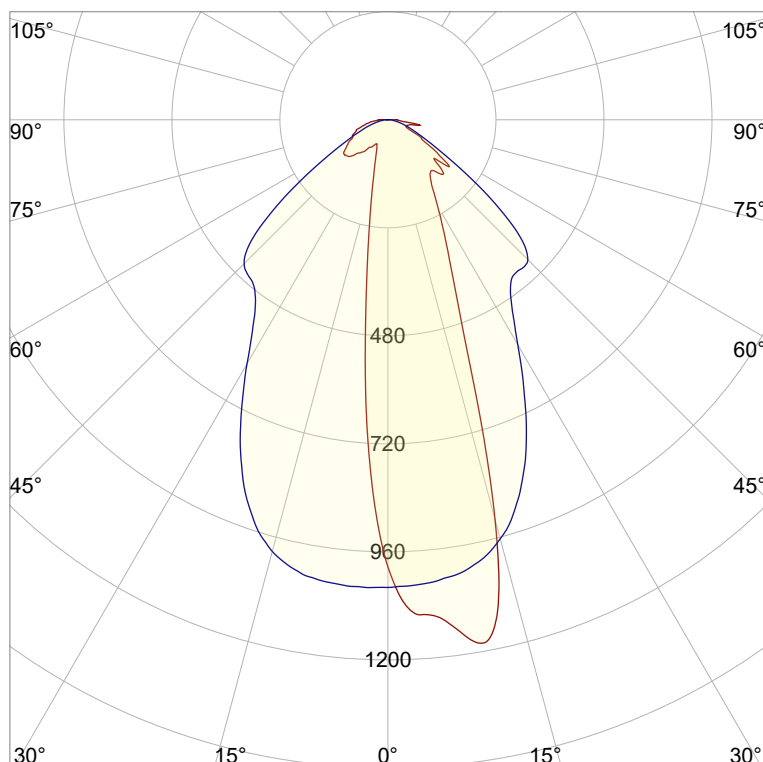
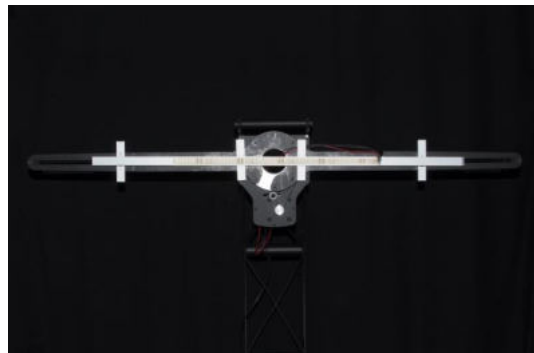
**6774 K**

**Output: 1089 lm**

**Peak: 1348 cd**

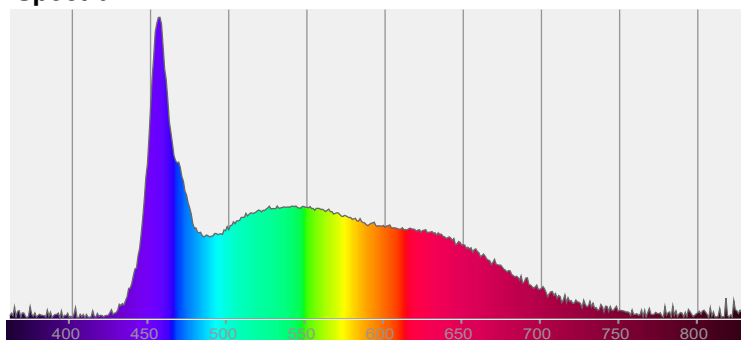
**Power: 9,6 W**

**PF: 1,0**

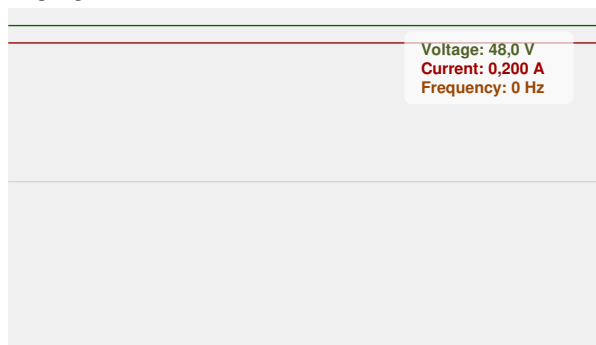


**CIE 1931**  
**x: 0,309**  
**y: 0,325**

**Spectra**



**Power**



**Product name:**

**Pegasus-5\_0510\_965\_Lens-Asymmetric-Frosted-2**

**Item number:**

**FL/L2C/09E/0510/965/LAF-2**

**Date and time:**

**15.04.2025 09:07:44**

**Description:**

**Tolerances:**

**Lumen +/-4%**

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

**Colour Temp +/-35 Kelvin**

**CRI +/-0,7**

**Angular Resolution: 1 Degree Step**

**Last Calibration 13.10.2023**

**Tester:**

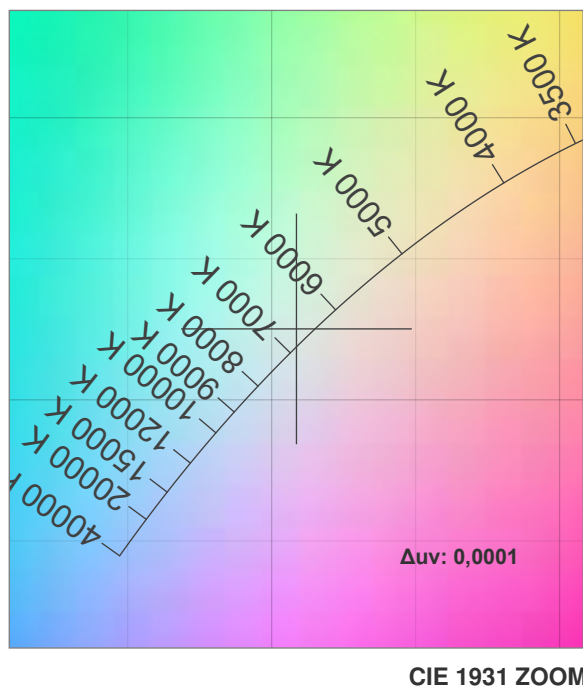
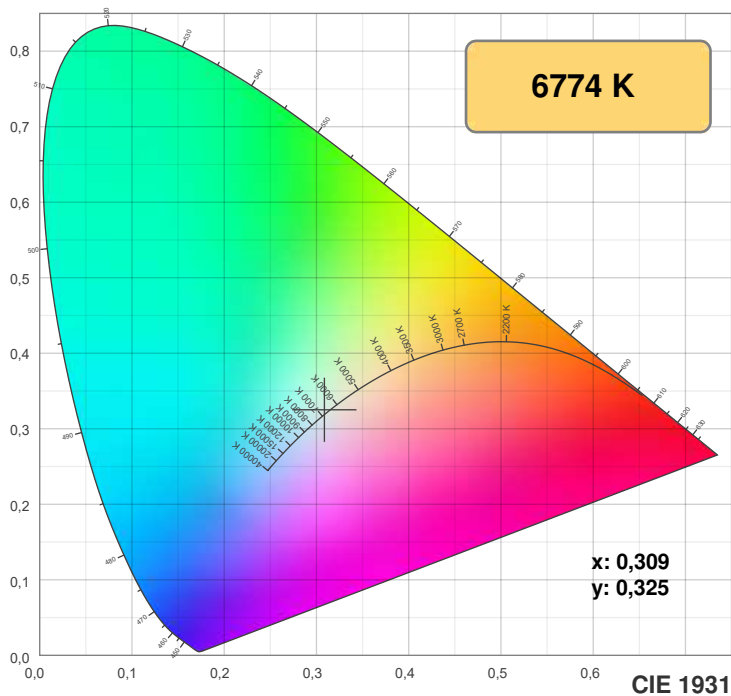
**Peter Ulrich**

**Test Site:**

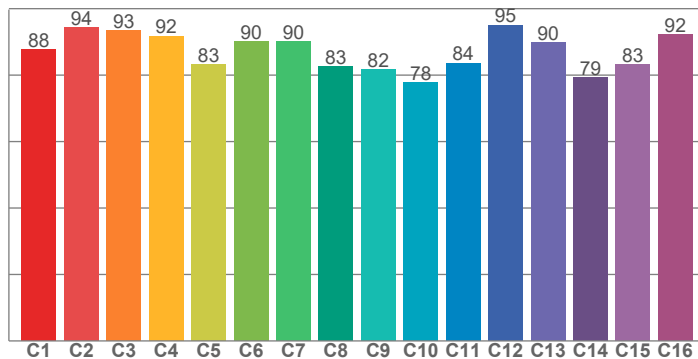
**Lichtlabor**

**Gaustrasse 13**

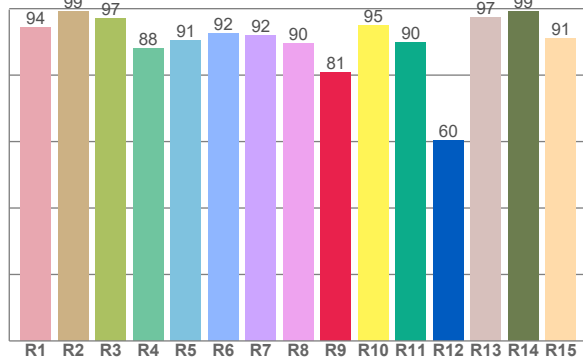
**55411 Bingen am Rhein**



**TM30: 87,1**



**CRI: 92,9 (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
94,5	99,1	97,0	88,0	90,5	92,5	92,0	89,6	80,9	95,1	90,0	60,4	97,3	99,1	91,2

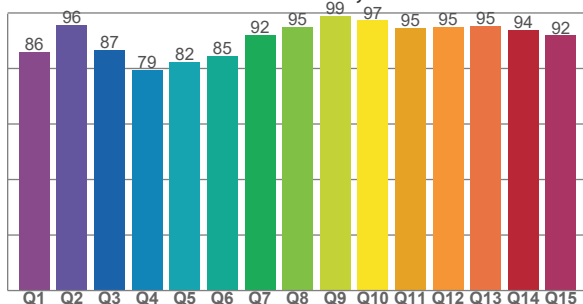
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,7	94,3	93,3	91,7	83,3	90,1	90,1	82,7	81,8	77,8	83,6	95,1	89,8	79,2	83,3	92,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
86,0	95,6	86,8	79,4	82,3	84,5	92,1	95,0	98,8	97,3	94,6	94,9	95,3	93,8	91,9

**CQS: 89,5**



## 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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	$\Delta uv$
6774 K	92,9	80,9	87,1	95,6	89,5	0,309	0,325	0,196	0,310	0,0001

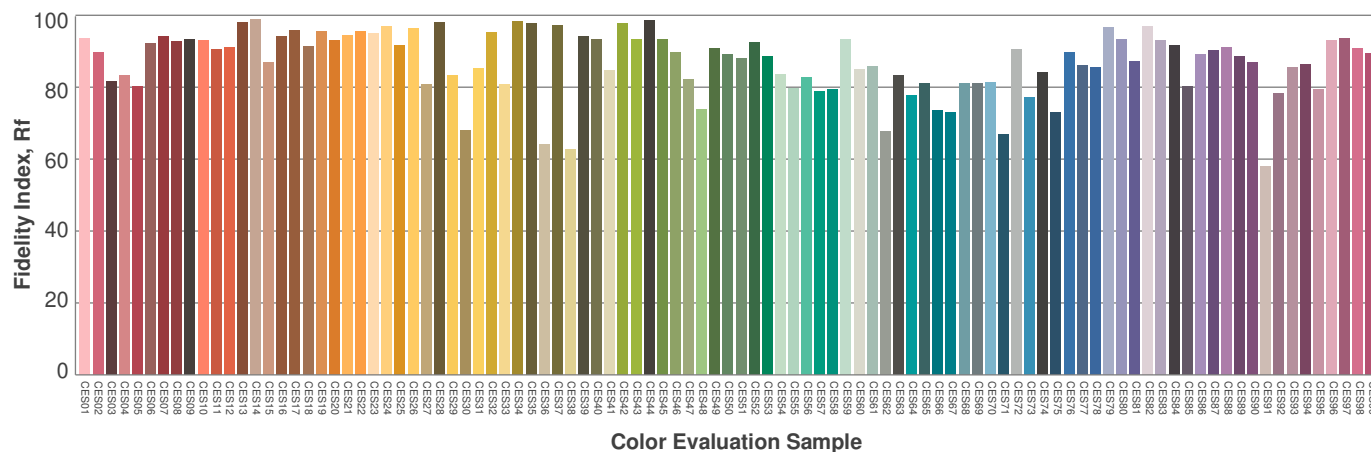
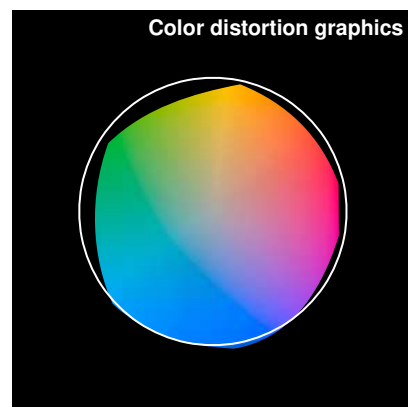
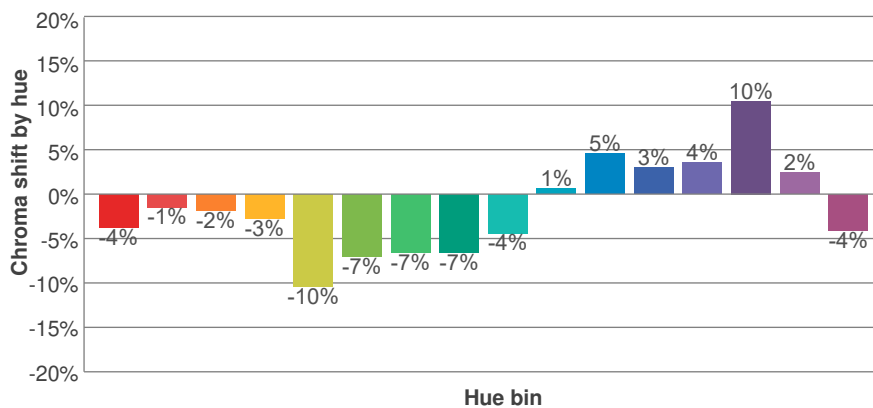
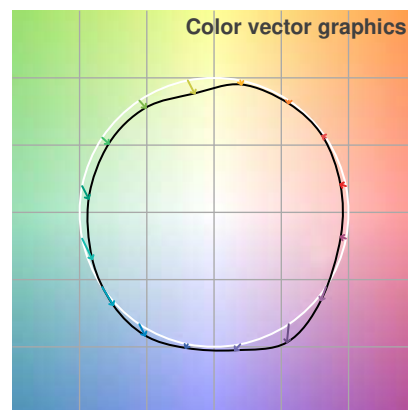
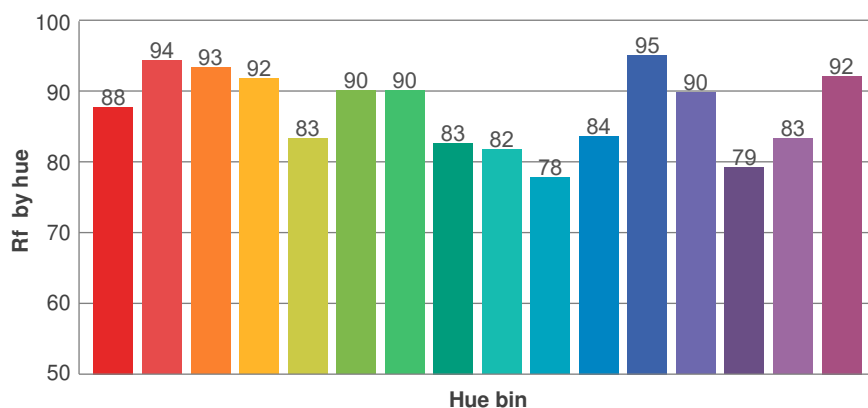
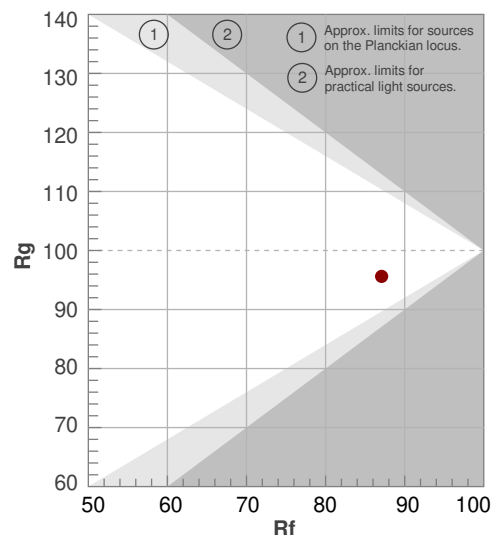
## Rf 87,1

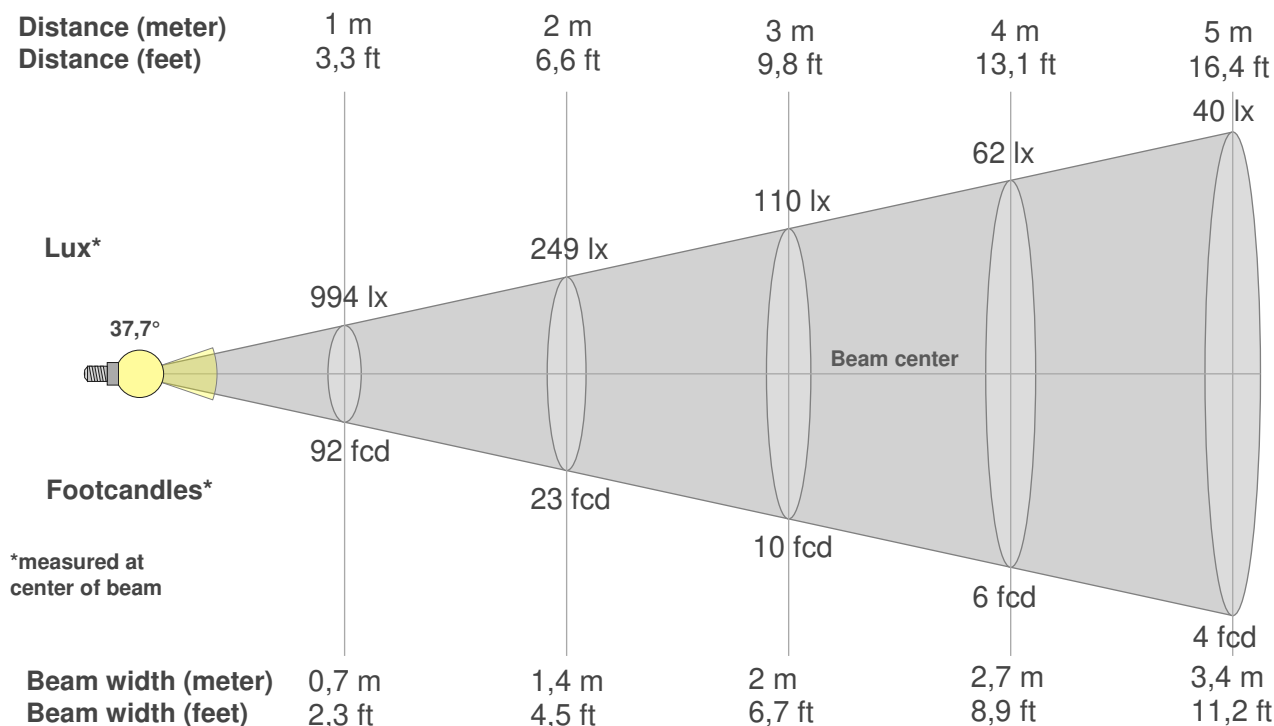
Fidelity index Rf

## Rg 95,6

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	88	-4%	2%
2	94	-1%	3%
3	93	-2%	-1%
4	92	-3%	-1%
5	83	-10%	-3%
6	90	-7%	-1%
7	90	-7%	1%
8	83	-7%	8%
9	82	-4%	16%
10	78	1%	16%
11	84	5%	8%
12	95	3%	-1%
13	90	4%	-5%
14	79	10%	-9%
15	83	2%	-10%
16	92	-4%	1%





## 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
994lx	249lx	110lx	62lx	40lx	28lx	20lx	16lx	12lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx
92,4fcd	23,1fcd	10,3fcd	5,8fcd	3,7fcd	2,6fcd	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°
994	1075	1102	1113	1148	1180	1144	1012	817	618	477	392	333	288	252	220	194	173	161	152
100%	108%	111%	112%	115%	119%	115%	102%	82%	62%	48%	39%	33%	29%	25%	22%	20%	17%	16%	15%

## 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°
994	1037	1034	1031	1024	1014	999	977	949	911	866	814	756	694	635	577	529	491	463	447
100%	104%	104%	104%	103%	102%	100%	98%	95%	92%	87%	82%	76%	70%	64%	58%	53%	49%	47%	45%

## Intensities in 180° c-plane

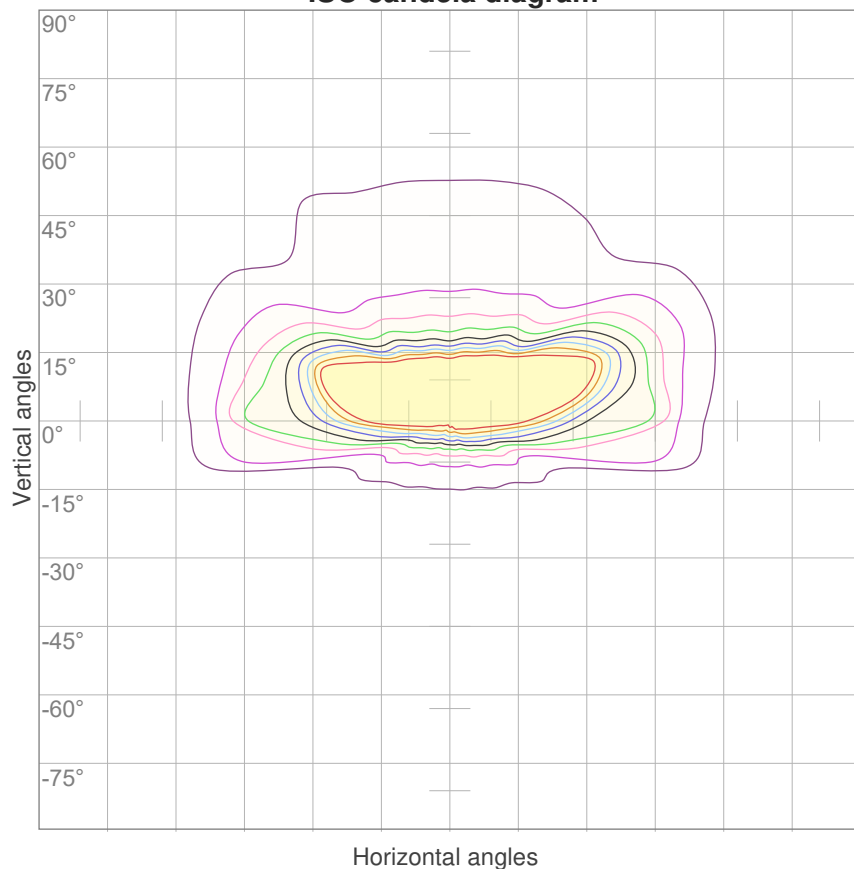
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
994	853	674	479	331	236	175	133	106	87	74	65	60	60	63	68	71	74	84	91
100%	86%	68%	48%	33%	24%	18%	13%	11%	9%	7%	7%	6%	6%	6%	7%	7%	7%	8%	9%

## 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°
994	1040	1040	1038	1035	1030	1018	1003	979	949	908	860	805	746	684	626	573	532	501	481
100%	105%	105%	104%	104%	104%	102%	101%	98%	95%	91%	87%	81%	75%	69%	63%	58%	53%	50%	48%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37,7°	91°	169,1°	84,6%	66,7%

### ISO candela diagram



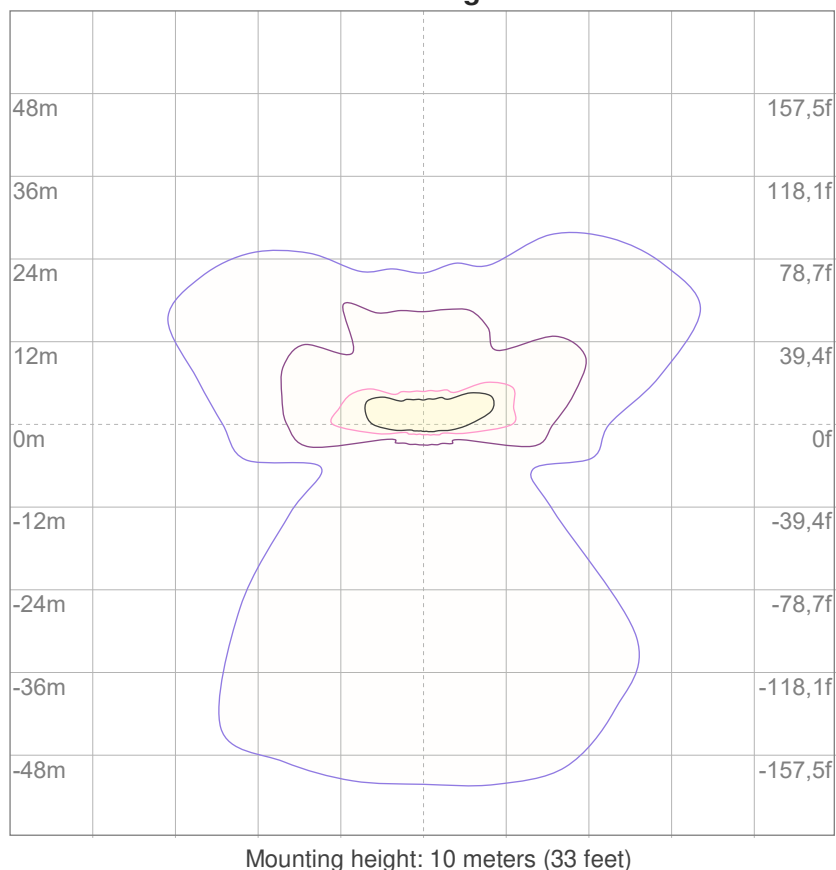
10%	99 cd
20%	199 cd
30%	298 cd
40%	398 cd
50%	497 cd
60%	597 cd
70%	696 cd
80%	795 cd
90%	895 cd

#### Conditions:

Number of c-planes: 16

Candela at center: 994 cd

### ISO lux diagram



3%	0,298 lx
5%	0,497 lx
10%	0,994 lx
30%	2,98 lx
50%	4,97 lx

#### Conditions:

Number of c-planes: 16

Lux at center: 9,94 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				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variation of the observer position for the luminaire distance S										
n/a	n/a					n/a				
n/a	n/a					n/a				
n/a	n/a					n/a				
Standard table	n/a					n/a				
Correction summand	n/a					n/a				
Corrected glare indices referring to 1089 lm total luminous flux										

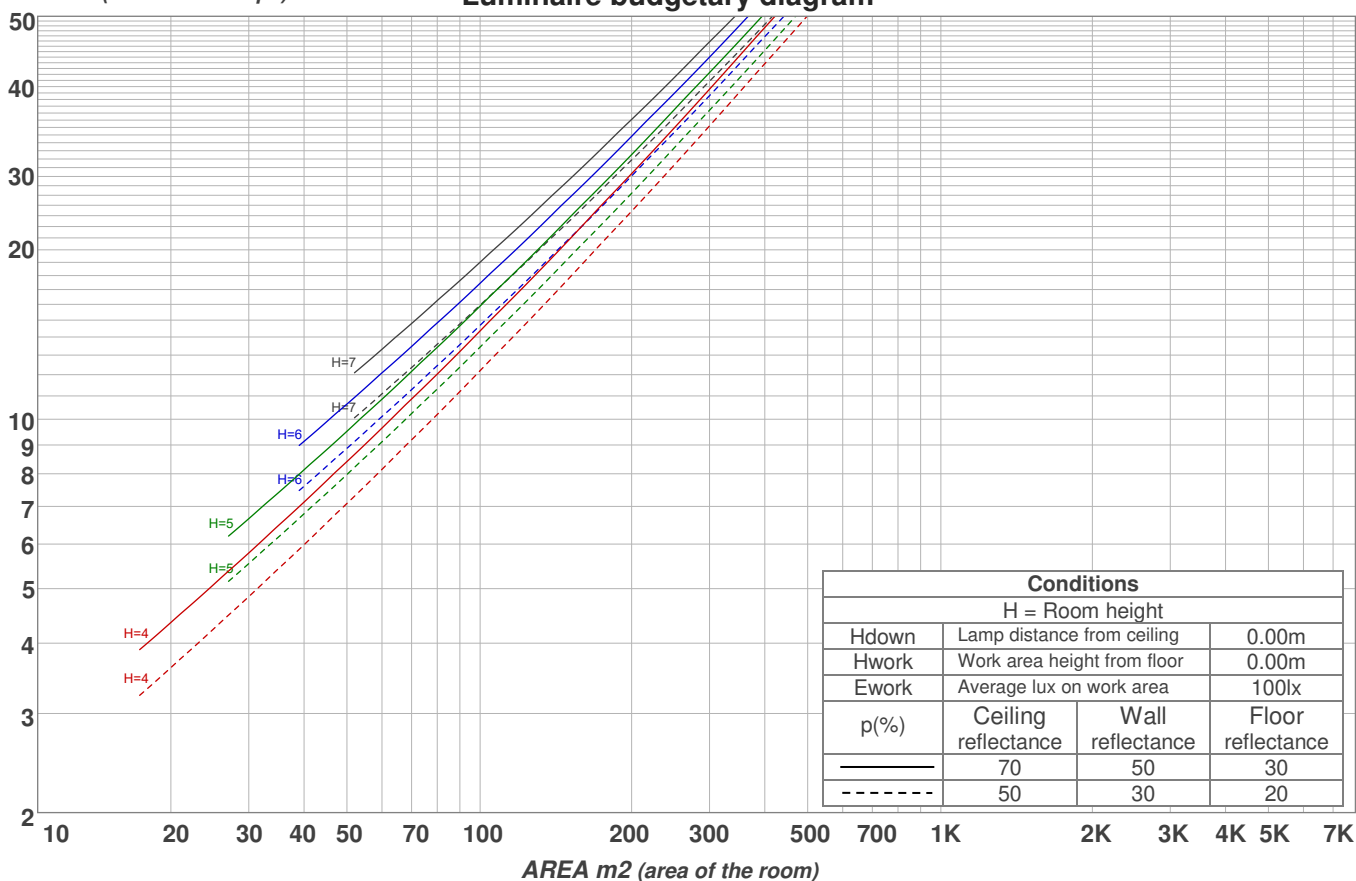
UGR data could not be calculated due to missing/wrong symmetry. Goto Edit->Photometric->Corrections and select Correct asymmetry.

## 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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66
4	87	77	69	63	85	76	68	63	73	67	62	71	66	61	69	64	60	58
5	82	70	62	56	80	69	62	56	67	61	56	65	60	55	64	59	54	53
6	76	65	57	51	75	64	56	51	62	55	50	60	54	50	59	54	50	48
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	48	43	66	55	48	43	54	47	42	52	46	42	51	46	42	40
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	40	36	35

LAMPS (number of lamps)

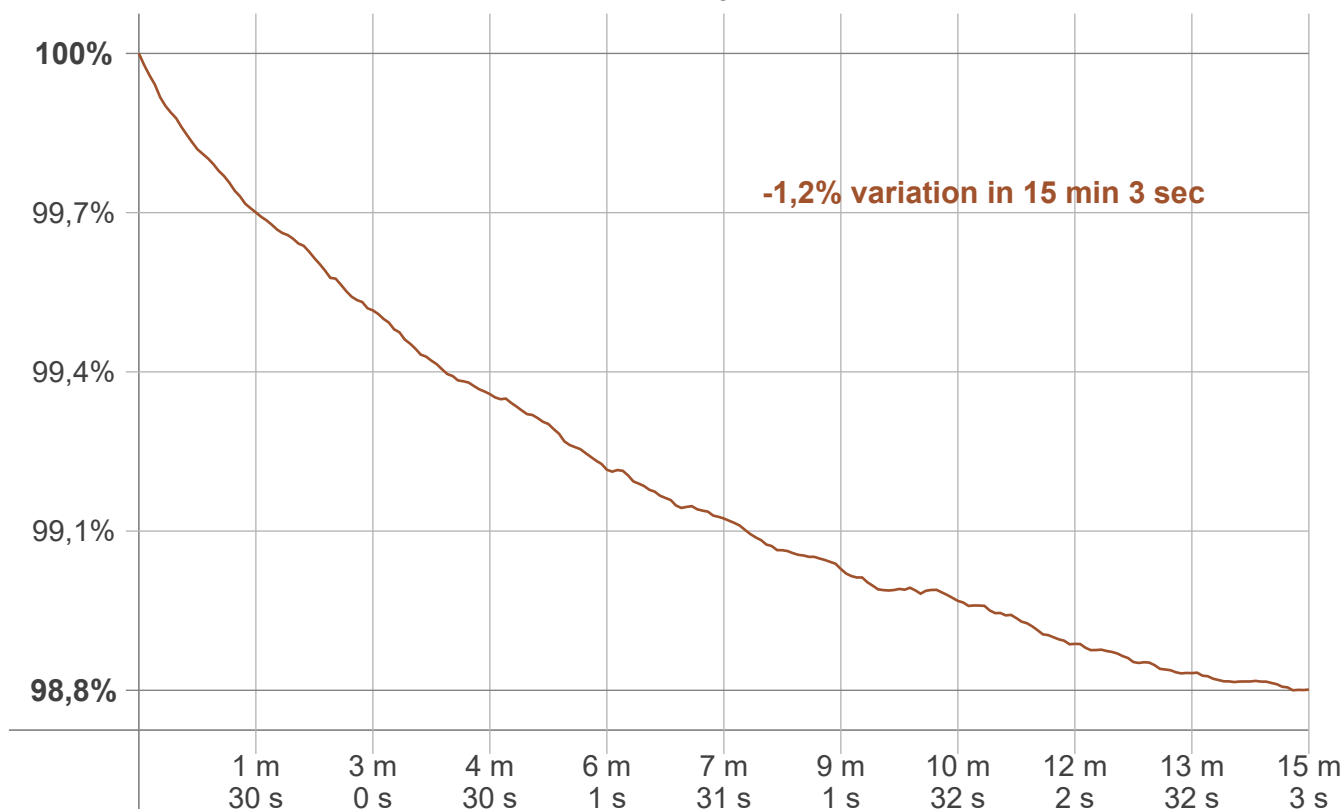
## Luminaire budgetary diagram



## Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
83,3 lm	192 lm	201 lm	173 lm	151 lm	121 lm	78,7 lm	52,4 lm	36,3 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,084 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:	Lamp stabilized in 15 min 3 sec
Warmup variation	-1,2%

### Warmup conditions

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

### Color temperature change

CCT start	CCT change	CCT end
6765 K	+9 K	6774 K

### Output change

Output start	Output change	Output end
1101 lm	-12 lm	1089 lm