

Light efficiency:

107 Lumen/Watt

Light quality:

CRI: 92,8

Color temperature:

2742 K

Output: 1024 lm

Peak: 351 cd

Power: 9,6 W

PF: 1,0



Product name:

**Pegasus-5\_0510\_927\_Cover-Square-Transparent**

Item number:

**NP/L2C/09E/0510/927/CST**

Date and time:

**02.04.2025 16:38:56**

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:**

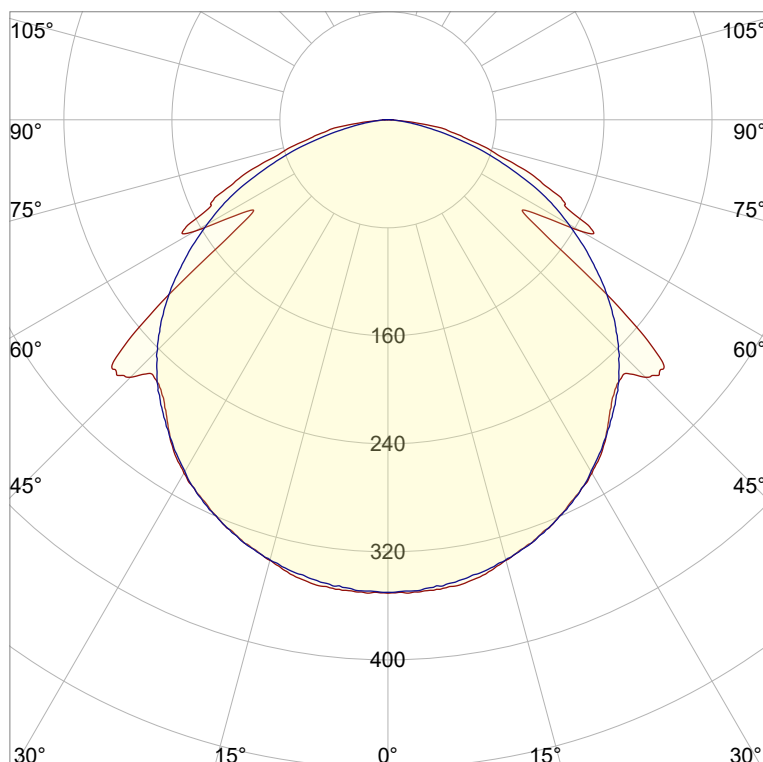
**Peter Ulrich**

**Test Site:**

**Lichtlabor**

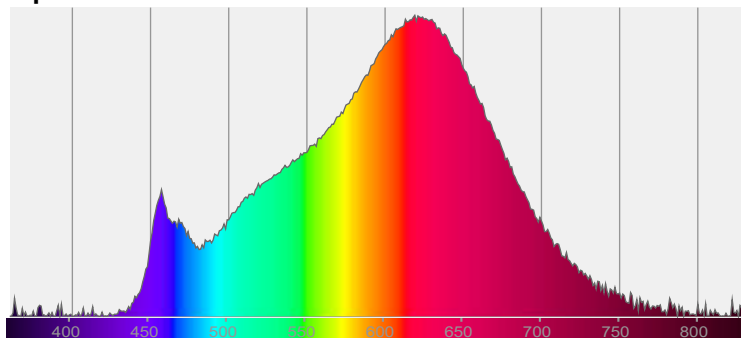
**Gaustrasse 13**

**55411 Bingen am Rhein**

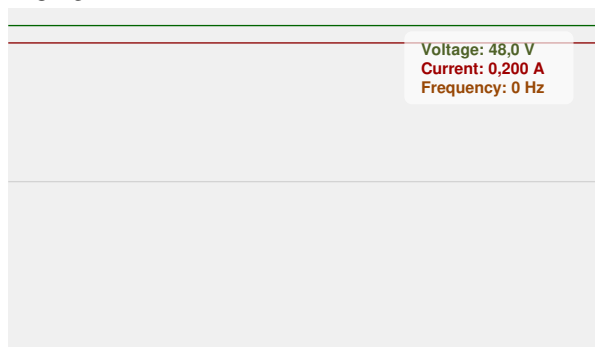


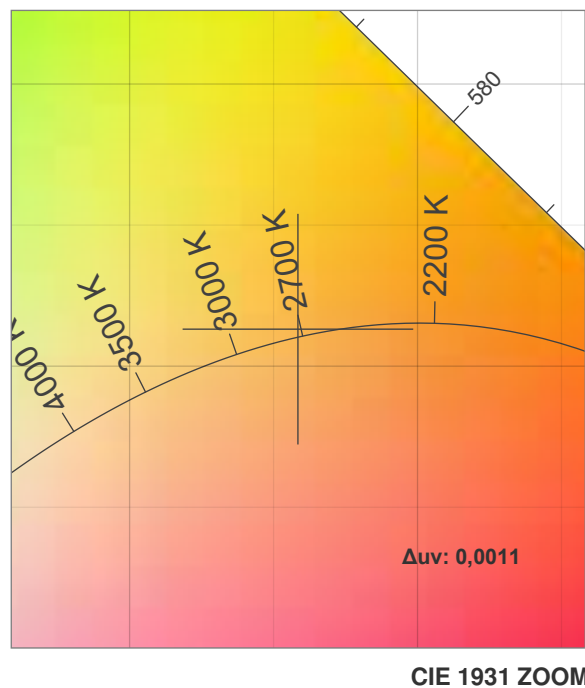
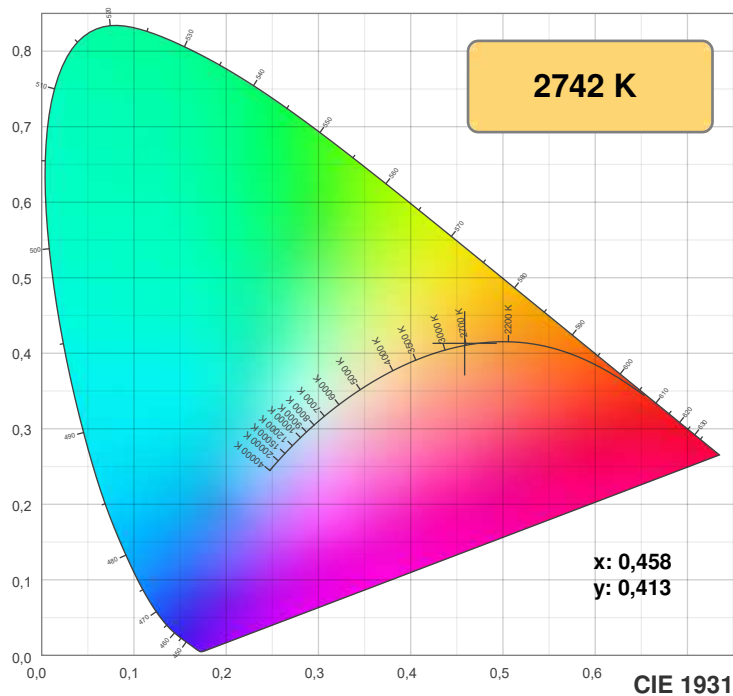
CIE 1931  
x: 0,458  
y: 0,413

Spectra

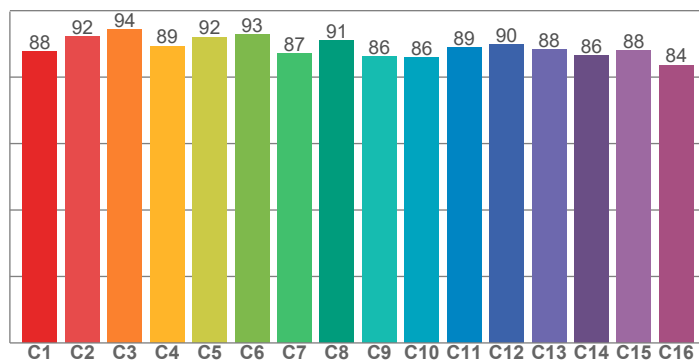


Power

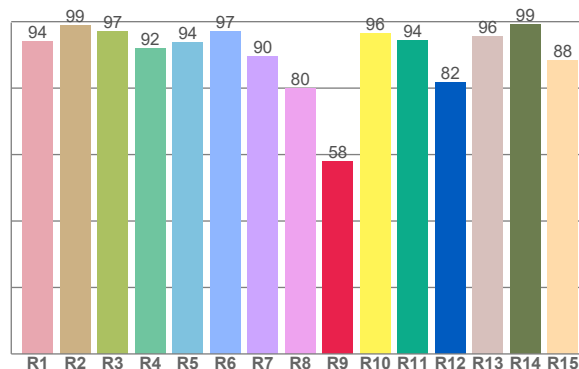




**TM30: 89,0**



**CRI: 92,8 (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
94,0	98,7	97,0	92,1	93,7	97,2	89,6	79,9	58,1	96,3	94,3	81,7	95,6	99,2	88,3

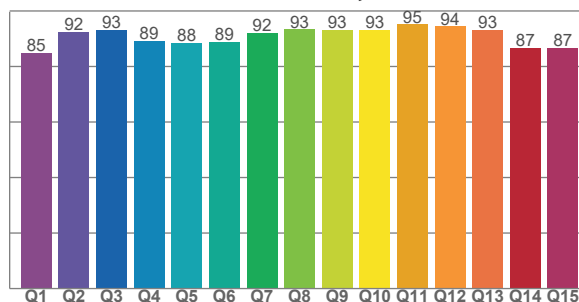
**TM30 C values, 16 binned values out of total of 99 C values**

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,7	92,1	94,3	89,3	92,1	92,8	87,0	91,0	86,1	85,8	88,9	89,8	88,4	86,5	88,0	83,6

**CQS Q values**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
84,8	92,3	93,1	89,3	88,5	89,0	91,9	93,3	93,1	93,2	95,2	94,4	93,1	86,5	86,5

**CQS: 90,3**



## 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	Δuv
2742 K	92,8	58,1	89,0	94,9	90,3	0,458	0,413	0,260	0,352	0,0011

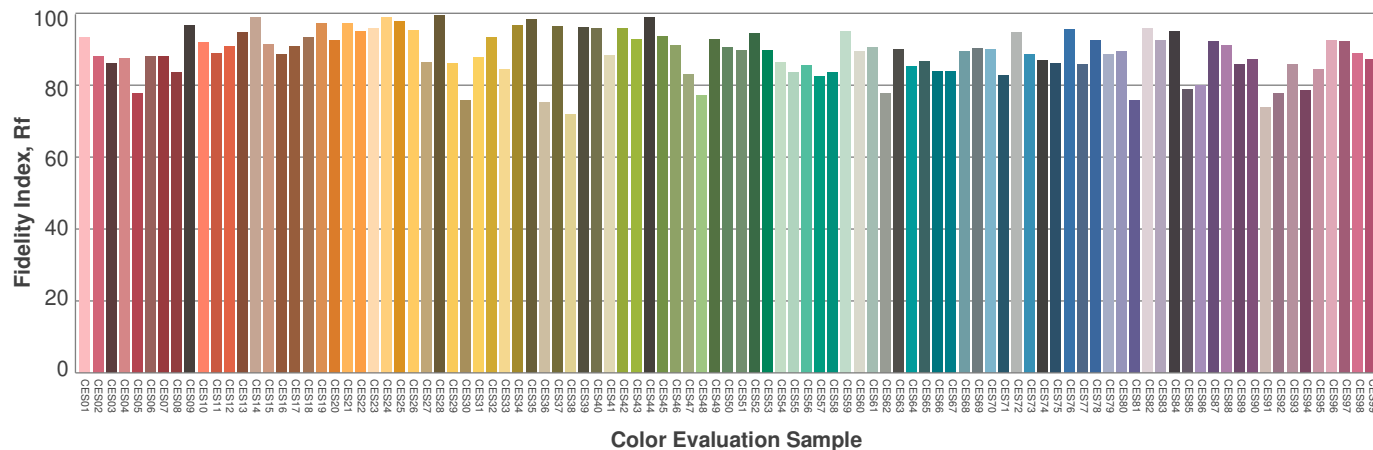
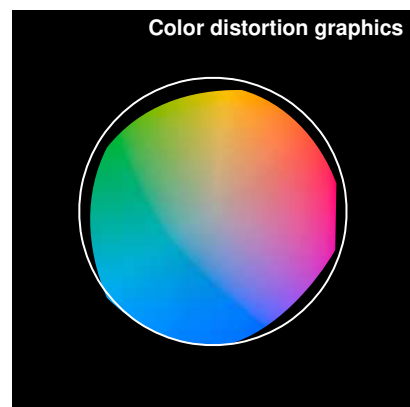
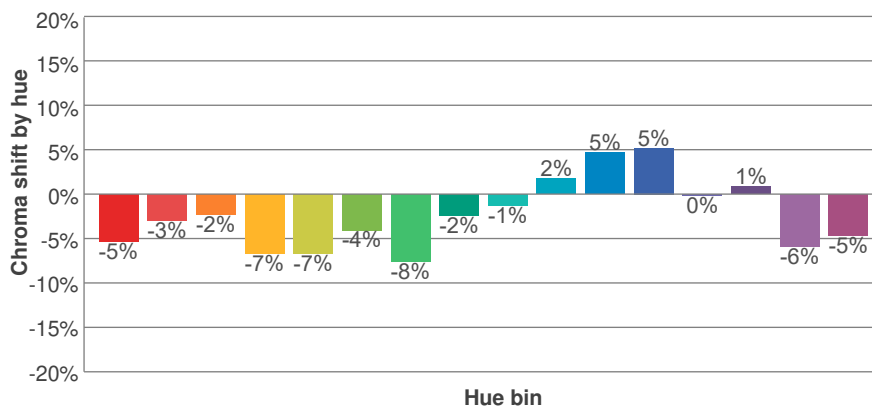
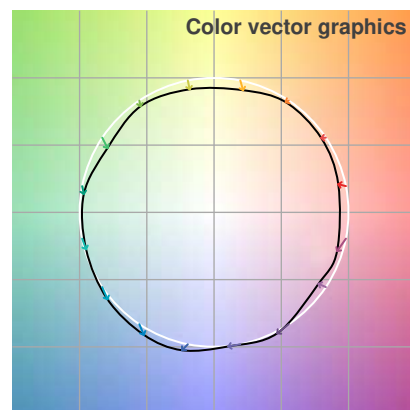
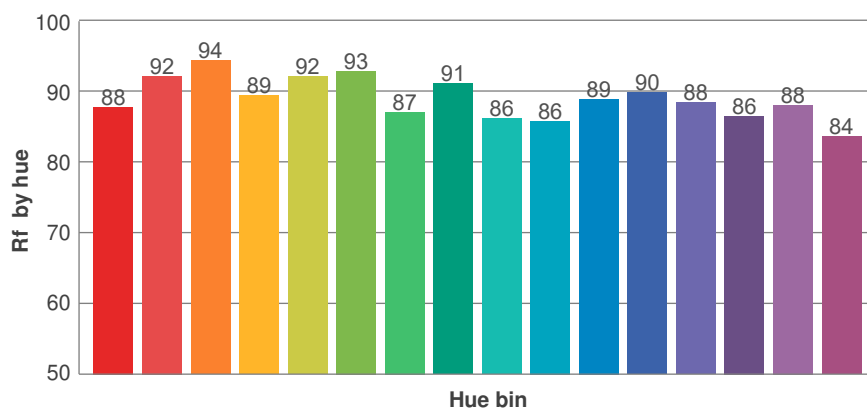
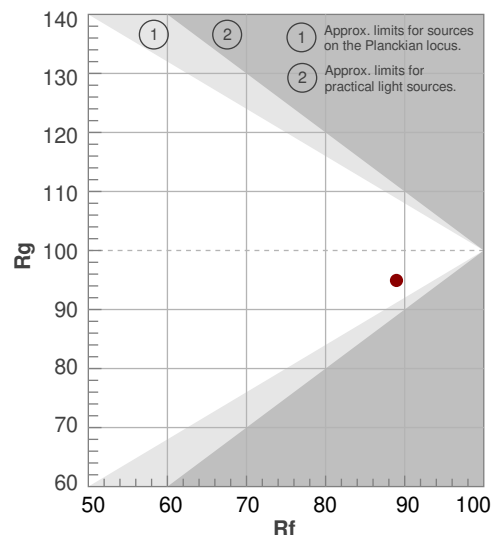
**Rf 89,0**

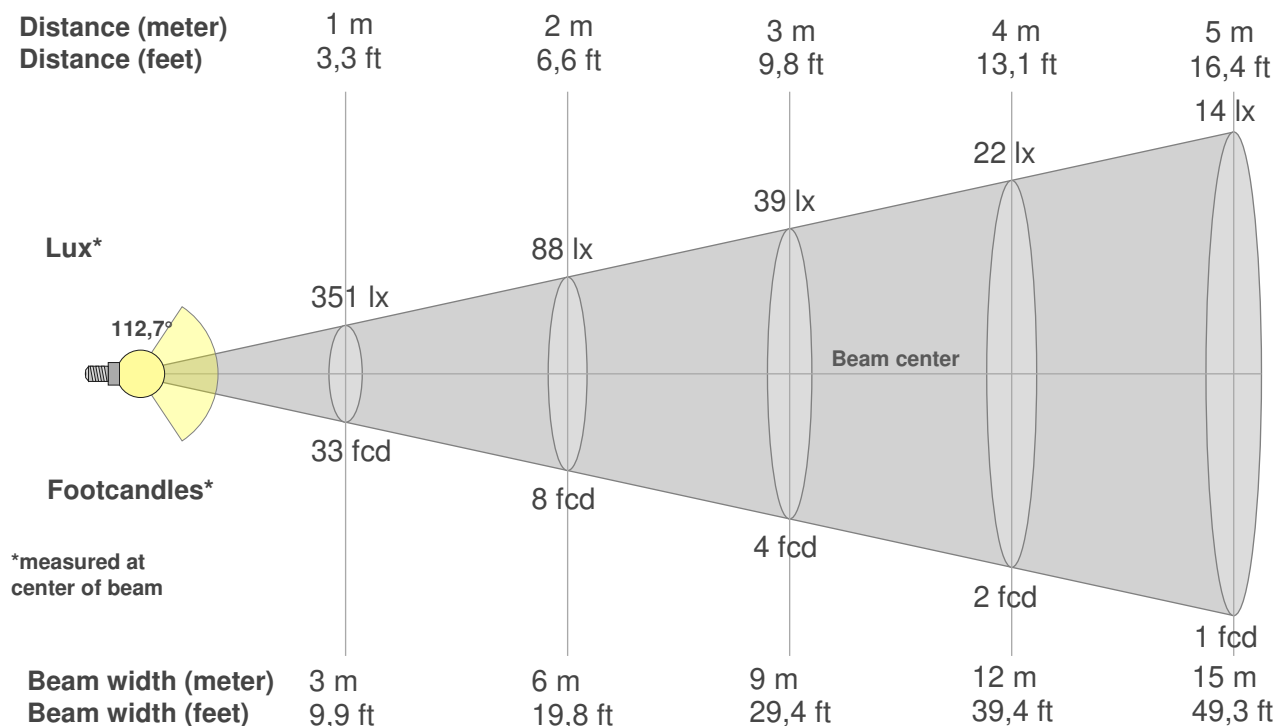
Fidelity index Rf

**Rg 94,9**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	88	-5%	2%
2	92	-3%	2%
3	94	-2%	1%
4	89	-7%	-3%
5	92	-7%	0%
6	93	-4%	2%
7	87	-8%	4%
8	91	-2%	5%
9	86	-1%	8%
10	86	2%	10%
11	89	5%	7%
12	90	5%	-3%
13	88	0%	-9%
14	86	1%	-11%
15	88	-6%	-1%
16	84	-5%	-10%





## 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
351lx	88lx	39lx	22lx	14lx	10lx	7lx	5lx	4lx	4lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx
32,6fcd	8,1fcd	3,6fcd	2fcd	1,3fcd	0,9fcd	0,7fcd	0,5fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	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°
351	350	347	338	328	316	302	282	261	270	244	127	165	144	107	70	45	10	2	2
100%	100%	99%	96%	93%	90%	86%	81%	75%	77%	70%	36%	47%	41%	30%	20%	13%	3%	1%	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°
351	348	344	337	328	316	301	283	264	242	216	186	154	122	86	51	24	8	1	1
100%	99%	98%	96%	94%	90%	86%	81%	75%	69%	61%	53%	44%	35%	24%	15%	7%	2%	0%	0%

## Intensities in 180° c-plane

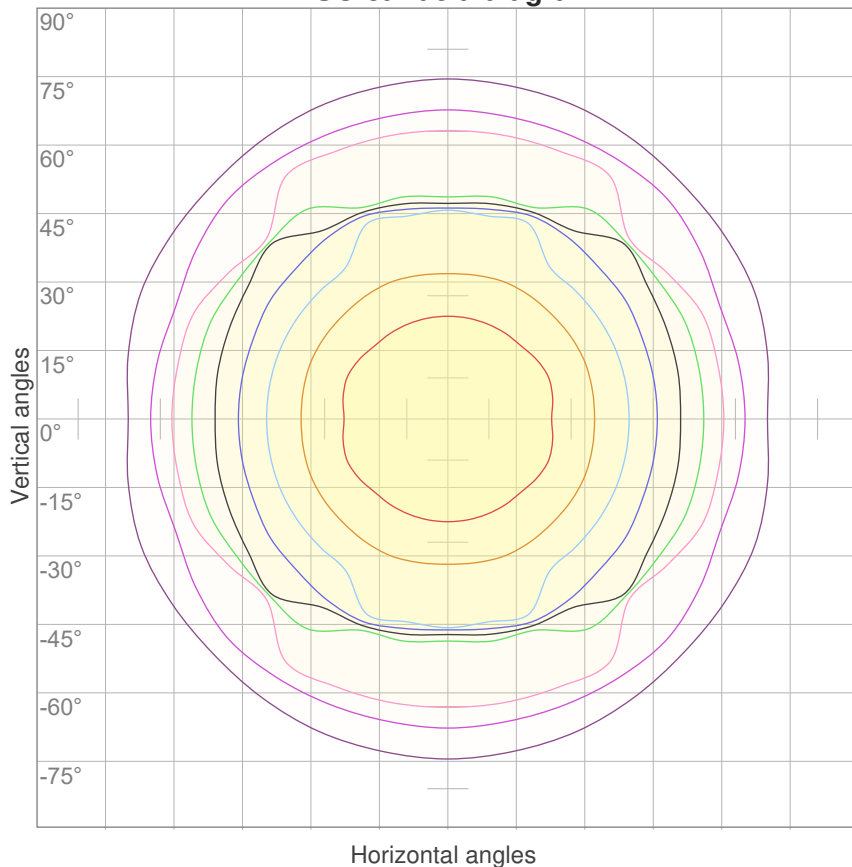
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
351	350	347	338	328	316	302	282	261	270	244	127	165	144	107	70	45	10	2	2
100%	100%	99%	96%	93%	90%	86%	81%	75%	77%	70%	36%	47%	41%	30%	20%	13%	3%	1%	0%

## 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°
351	348	344	337	328	316	301	283	264	242	216	186	154	122	86	51	24	8	1	1
100%	99%	98%	96%	94%	90%	86%	81%	75%	69%	61%	53%	44%	35%	24%	15%	7%	2%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
112,7°	161,8°	172,8°	78,8%	53,4%

### ISO candela diagram

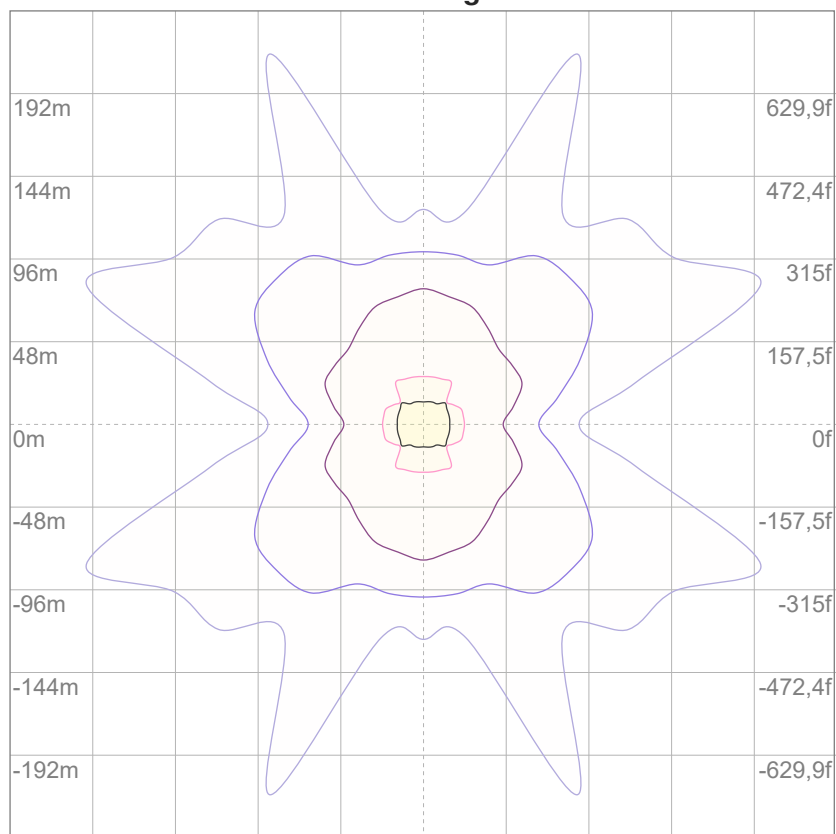


10%	35 cd
20%	70 cd
30%	105 cd
40%	140 cd
50%	175 cd
60%	210 cd
70%	245 cd
80%	280 cd
90%	315 cd

#### Conditions:

Number of c-planes: 16  
Candela at center: 351 cd

### ISO lux diagram



3%	0,105 lx
5%	0,175 lx
10%	0,351 lx
30%	1,05 lx
50%	1,75 lx

#### Conditions:

Number of c-planes: 16  
Lux at center: 3,51 lx

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

### Glare Evaluation According to UGR

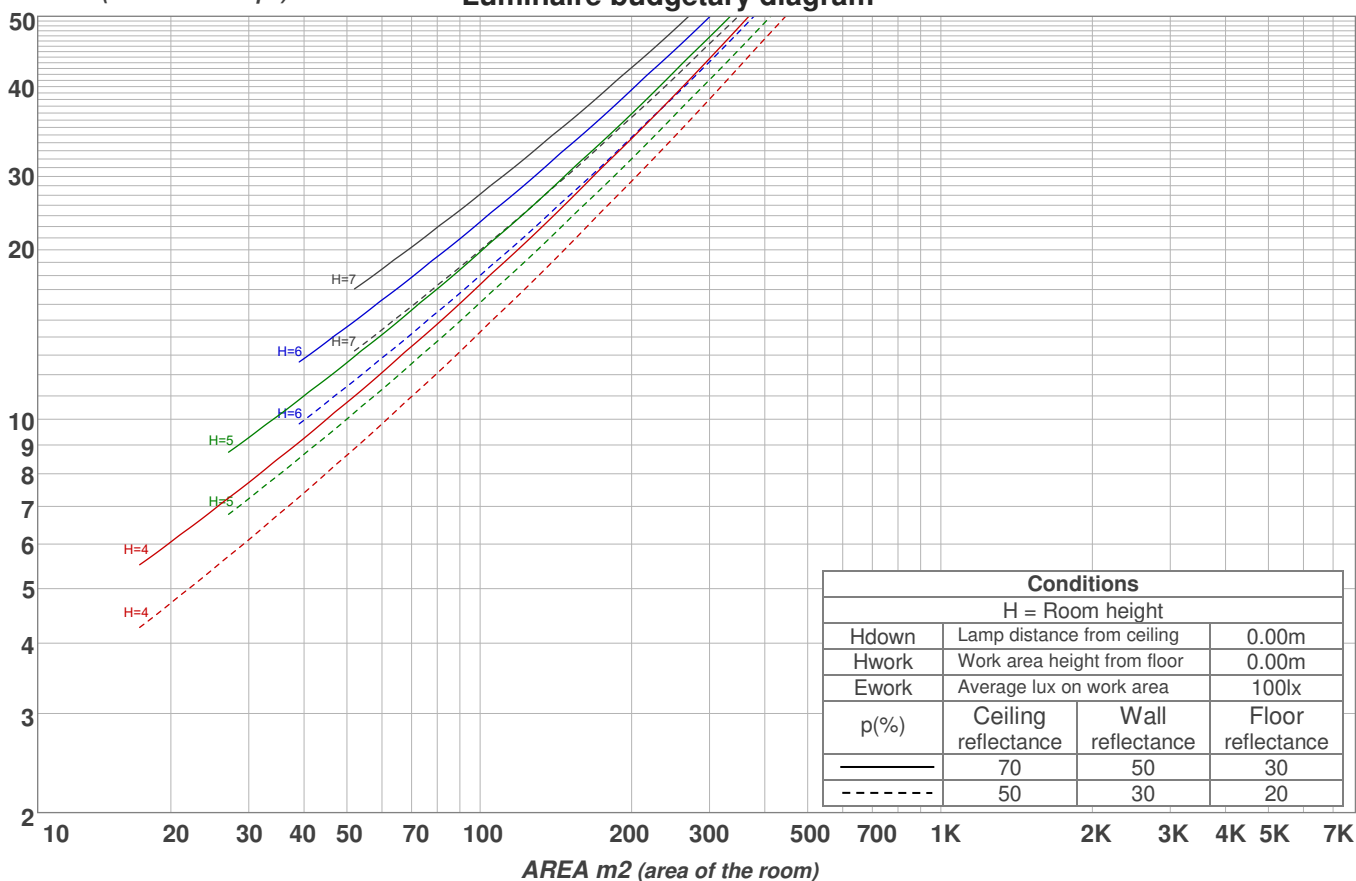
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X      Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	25,9	27,2	26,2	27,5	27,7	26,7	27,9	26,9	28,2	28,5
	3H	27,4	28,7	27,8	29,0	29,2	27,9	29,1	28,3	29,4	29,6
	4H	27,9	29,1	28,3	29,3	29,6	28,2	29,5	28,6	29,7	30,0
	6H	28,2	29,3	28,5	29,5	29,9	28,6	29,6	28,9	29,9	30,3
	8H	28,3	29,3	28,6	29,6	30,0	28,6	29,6	28,9	29,9	30,3
	12H	28,3	29,3	28,6	29,6	30,0	28,6	29,6	28,9	29,9	30,4
4H	2H	26,5	27,7	26,9	27,9	28,2	27,1	28,3	27,5	28,5	28,8
	3H	28,3	29,3	28,7	29,6	30,1	28,6	29,5	28,9	29,9	30,3
	4H	28,8	29,7	29,2	30,1	30,7	28,9	29,8	29,4	30,3	30,8
	6H	29,2	30,0	29,7	30,4	30,8	29,3	30,2	29,8	30,5	30,9
	8H	29,3	30,1	29,8	30,4	30,8	29,4	30,2	29,9	30,5	30,9
	12H	29,3	29,9	29,8	30,4	30,8	29,4	30,1	29,9	30,5	31,0
8H	4H	29,0	29,8	29,5	30,2	30,6	29,2	30,0	29,7	30,3	30,7
	6H	29,5	30,1	30,0	30,6	31,1	29,7	30,3	30,2	30,7	31,3
	8H	29,7	30,2	30,2	30,8	31,4	29,8	30,4	30,3	30,9	31,5
	12H	29,8	30,2	30,3	30,7	31,3	29,9	30,3	30,5	30,8	31,5
12H	4H	29,0	29,7	29,5	30,1	30,6	29,2	29,8	29,6	30,2	30,7
	6H	29,6	30,1	30,1	30,6	31,3	29,7	30,3	30,2	30,8	31,4
	8H	29,8	30,2	30,4	30,7	31,3	29,9	30,3	30,5	30,8	31,4
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,3 / -0,3					0,1 / -0,2				
S = 1.5H		0,6 / -0,7					0,3 / -0,5				
S = 2.0H		0,9 / -0,7					0,7 / -0,9				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1024 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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	87	85	83
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	78	75	72	69
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

LAMPS (number of lamps)

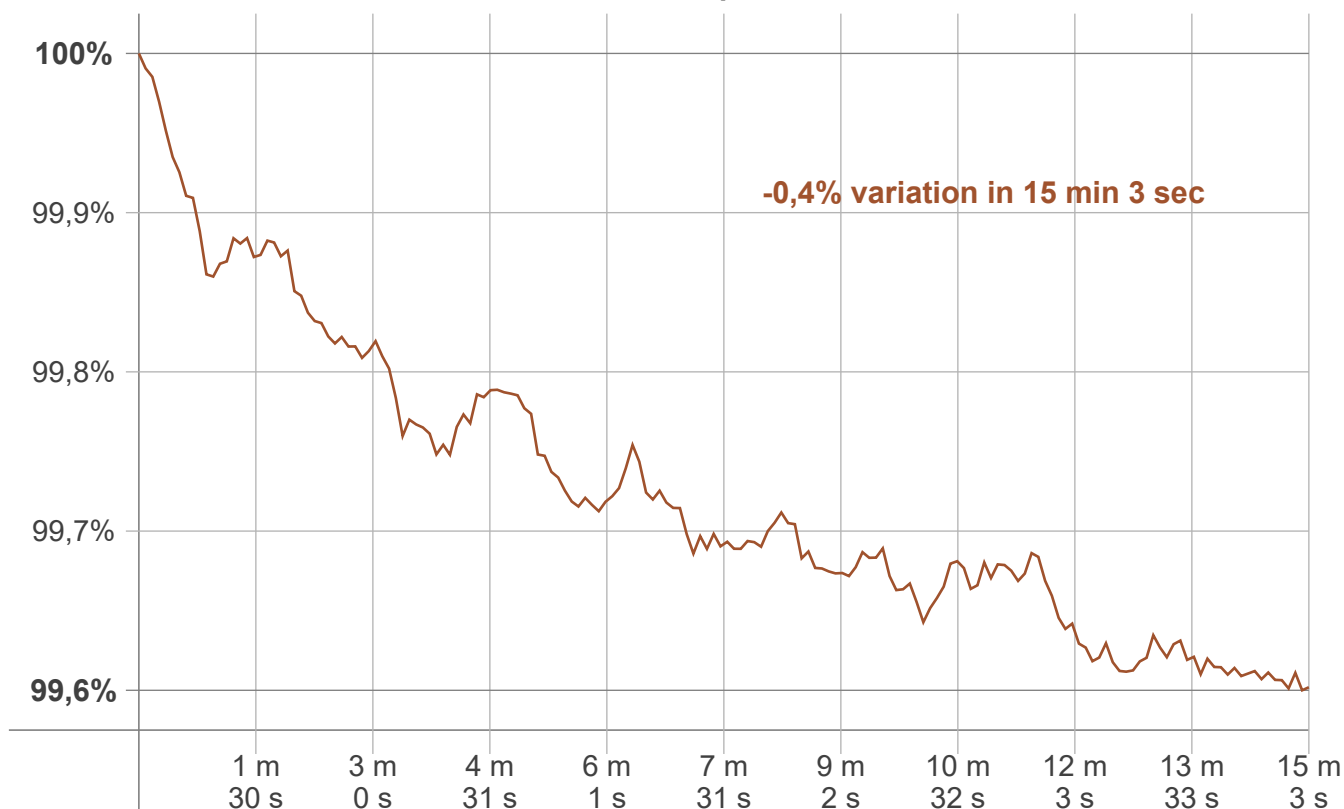
## Luminaire budgetary diagram



## Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
33,3 lm	95,7 lm	146 lm	178 lm	191 lm	162 lm	124 lm	69,8 lm	18,4 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1,63 lm	0,878 lm	0,729 lm	0,659 lm	0,424 lm	0,226 lm	0,167 lm	0,102 lm	0,034 lm

### Warmup curve



### Warmup result

Warmup time:	Lamp stabilized in 15 min 3 sec
Warmup variation	-0,4%

### Warmup conditions

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

### Color temperature change

CCT start	CCT change	CCT end
2741 K	+1 K	2742 K

### Output change

Output start	Output change	Output end
1027 lm	-3 lm	1024 lm