

**Light efficiency:**

**98 Lumen/Watt**

**Light quality:**

**CRI: 92,9**

**Color temperature:**

**2749 K**

**Output: 991 lm**

**Peak: 360 cd**

**Power: 10,1 W**

**PF: 1,0**



**Product name:**

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

**Item number:**

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

**Date and time:**

**09.04.2025 11:57:36**

**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:**

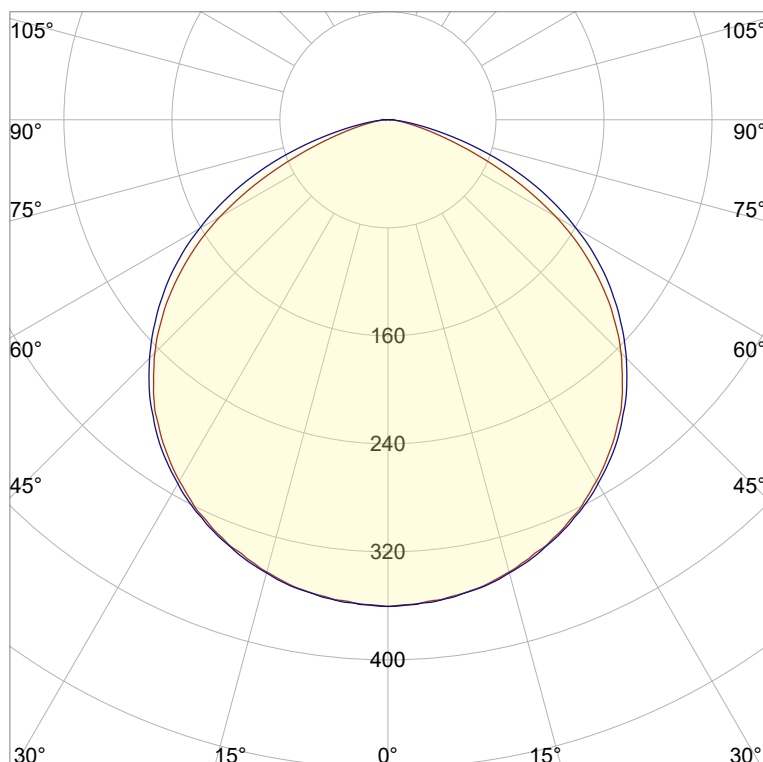
**Peter Ulrich**

**Test Site:**

**Lichtlabor**

**Gaustrasse 13**

**55411 Bingen am Rhein**

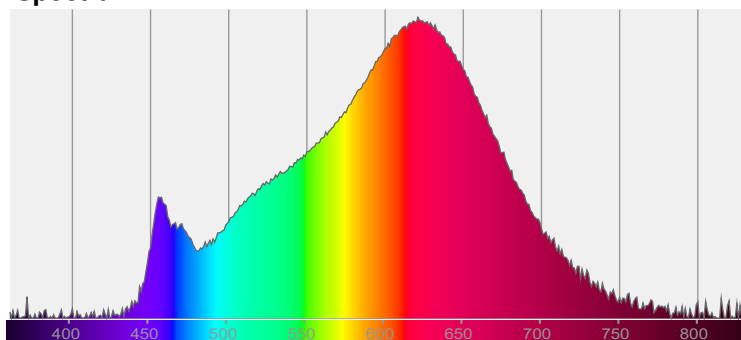


**CIE 1931**

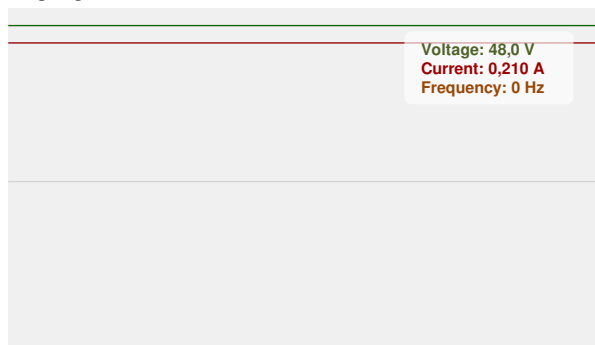
**x: 0,458**

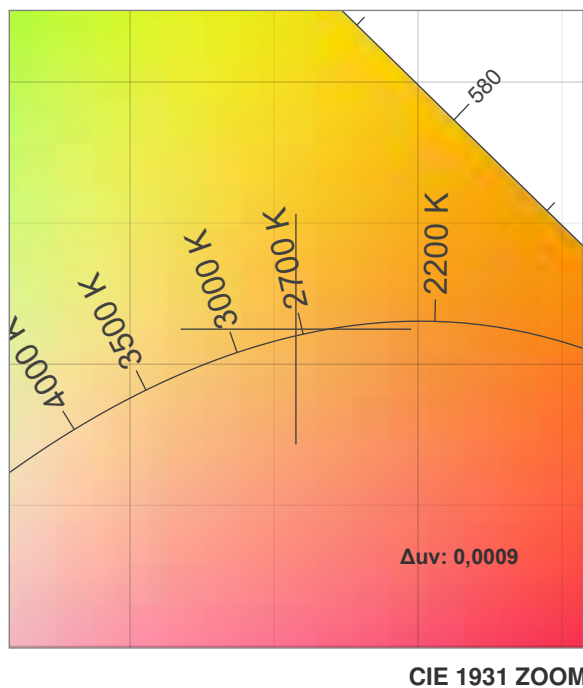
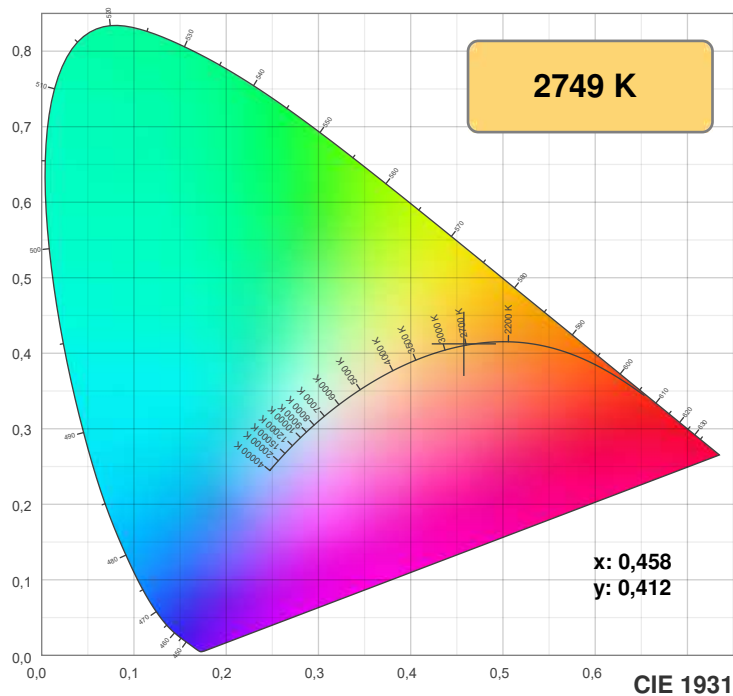
**y: 0,412**

**Spectra**

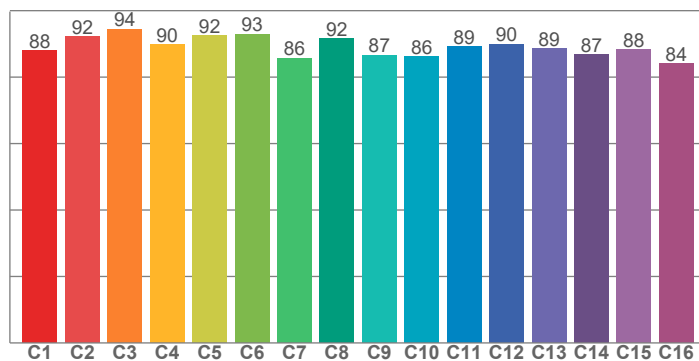


**Power**

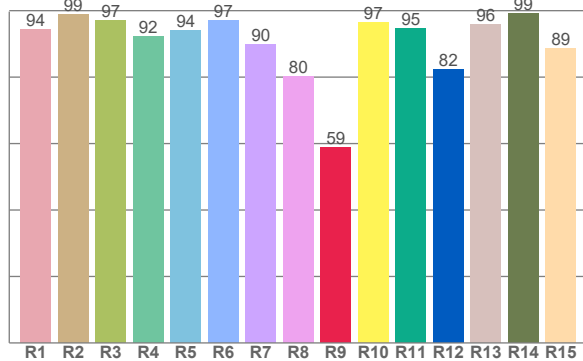




**TM30: 89,3**



**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
94,2	98,9	97,1	92,3	93,9	97,1	89,8	80,3	59,0	96,6	94,6	82,3	95,8	99,2	88,7

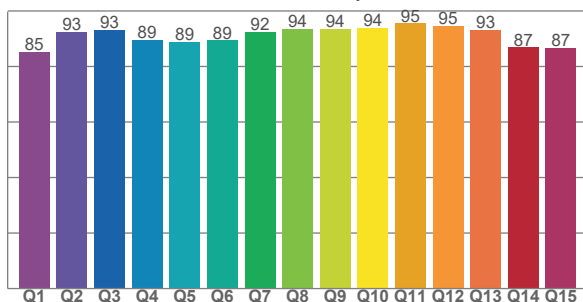
**TM30 C values, 16 binned values out of total of 99 C values**

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,1	92,3	94,5	89,9	92,5	92,9	85,7	91,5	86,6	86,3	89,2	90,0	88,6	86,7	88,4	84,0

**CQS Q values**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85,2	92,5	93,2	89,5	88,8	89,4	92,3	93,6	93,5	93,8	95,5	94,5	93,1	86,8	86,8

**CQS: 90,5**



## 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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
2749 K	92,9	59,0	89,3	95,1	90,5	0,458	0,412	0,260	0,352	0,0009

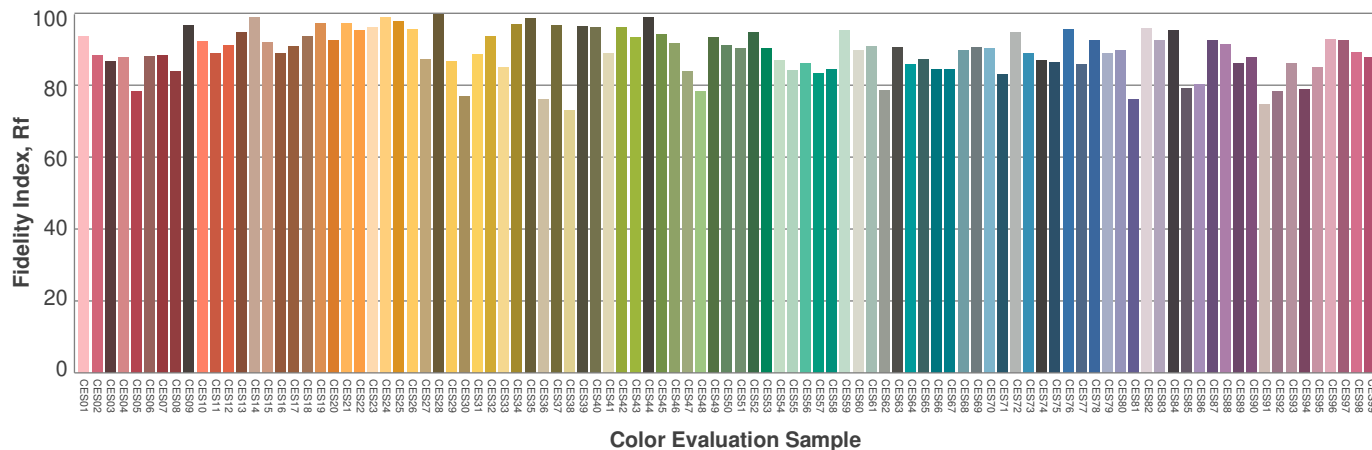
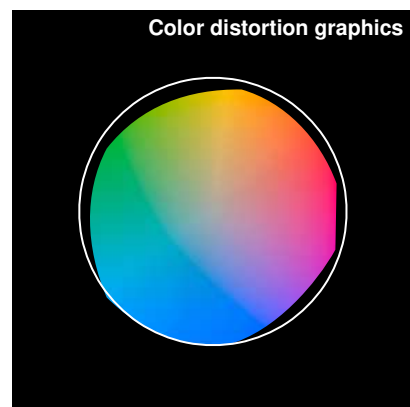
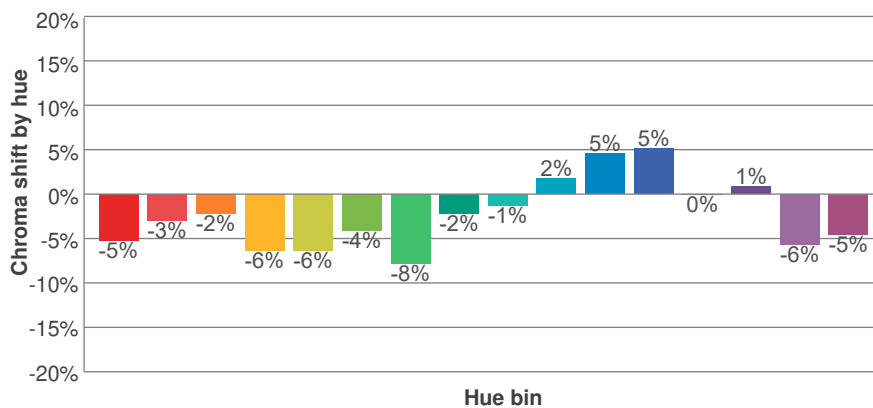
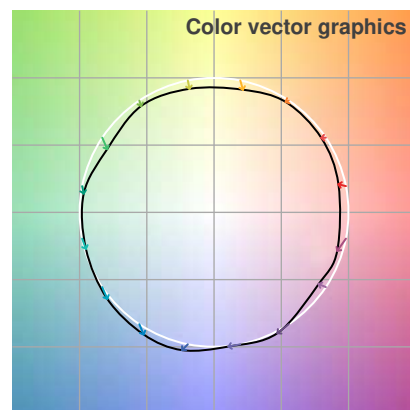
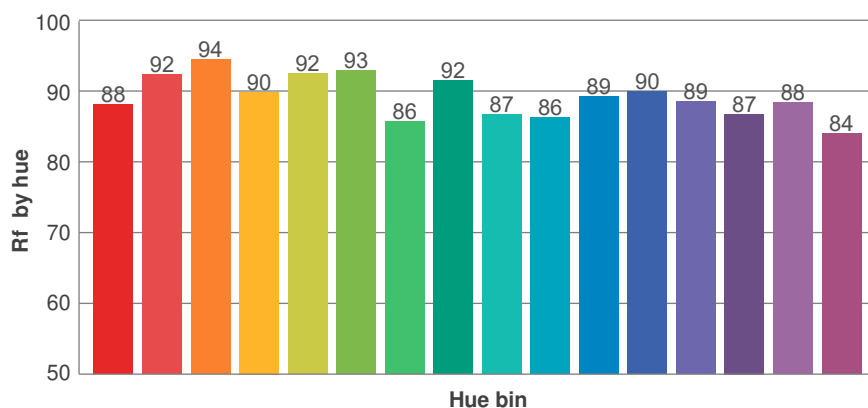
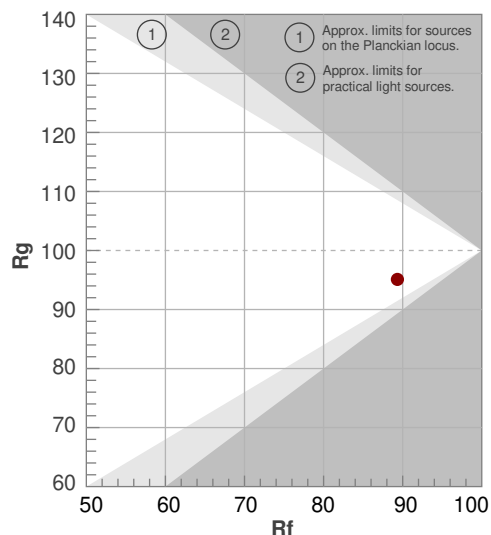
## Rf 89,3

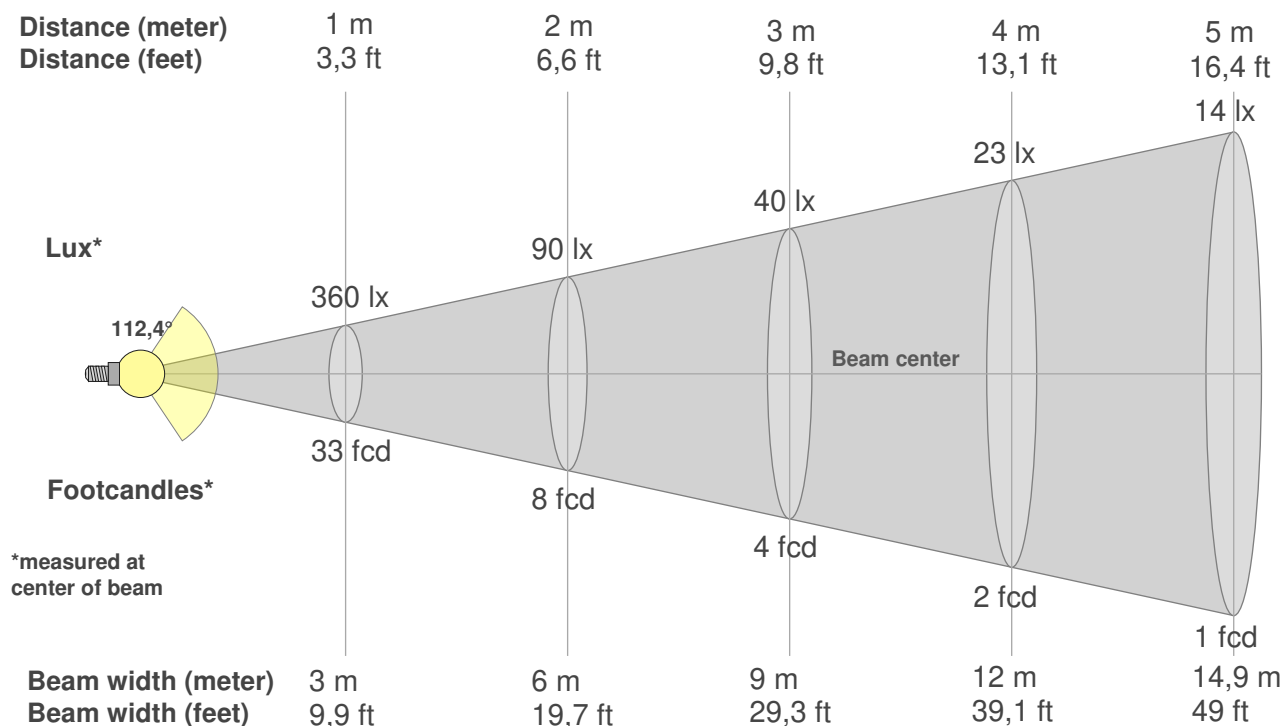
Fidelity index Rf

## Rg 95,1

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	90	-6%	-3%
5	92	-6%	0%
6	93	-4%	1%
7	86	-8%	5%
8	92	-2%	5%
9	87	-1%	8%
10	86	2%	9%
11	89	5%	7%
12	90	5%	-3%
13	89	0%	-9%
14	87	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
360lx	90lx	40lx	23lx	14lx	10lx	7lx	6lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx
33,5fcd	8,4fcd	3,7fcd	2,1fcd	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°
360	358	354	347	337	324	309	291	270	244	215	181	143	100	59	31	14	6	2	0
100%	99%	98%	96%	94%	90%	86%	81%	75%	68%	60%	50%	40%	28%	17%	9%	4%	2%	0%	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°
360	359	354	347	338	326	311	294	273	250	223	194	161	126	88	51	23	8	1	1
100%	100%	98%	96%	94%	90%	86%	82%	76%	69%	62%	54%	45%	35%	24%	14%	6%	2%	0%	0%

## Intensities in 180° c-plane

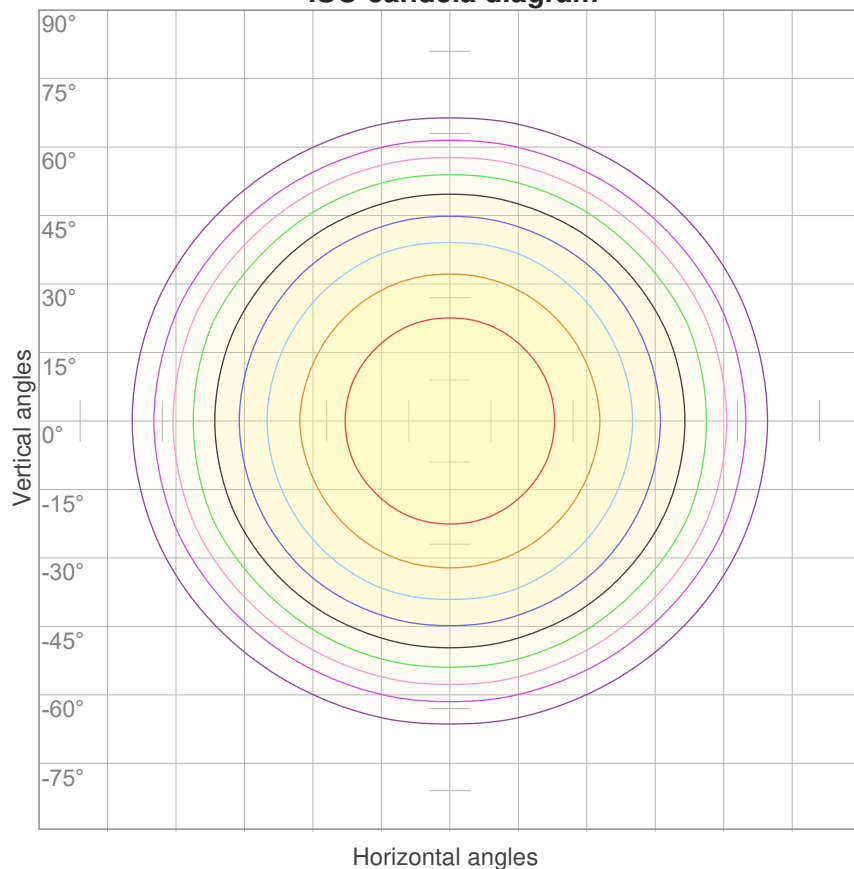
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
360	358	354	347	337	324	309	291	270	244	215	181	143	100	59	31	14	6	2	0
100%	99%	98%	96%	94%	90%	86%	81%	75%	68%	60%	50%	40%	28%	17%	9%	4%	2%	0%	0%

## 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°
360	359	354	347	338	326	311	294	273	250	223	194	161	126	88	51	23	8	1	1
100%	100%	98%	96%	94%	90%	86%	82%	76%	69%	62%	54%	45%	35%	24%	14%	6%	2%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
112,4°	151,1°	167,3°	82,6%	56,2%

**ISO candela diagram**



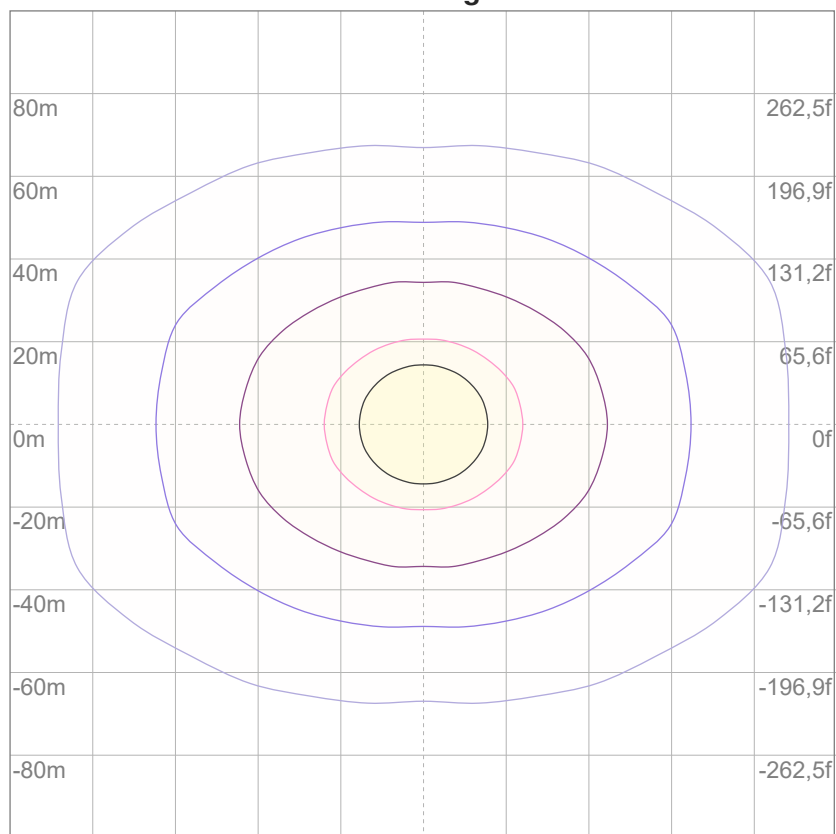
10%	36 cd
20%	72 cd
30%	108 cd
40%	144 cd
50%	180 cd
60%	216 cd
70%	252 cd
80%	288 cd
90%	324 cd

Conditions:

Number of c-planes: 16

Candela at center: 360 cd

**ISO lux diagram**



3%	0,108 lx
5%	0,180 lx
10%	0,360 lx
30%	1,08 lx
50%	1,80 lx

Conditions:

Number of c-planes: 16

Lux at center: 3,60 lx

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

### Glare Evaluation According to UGR

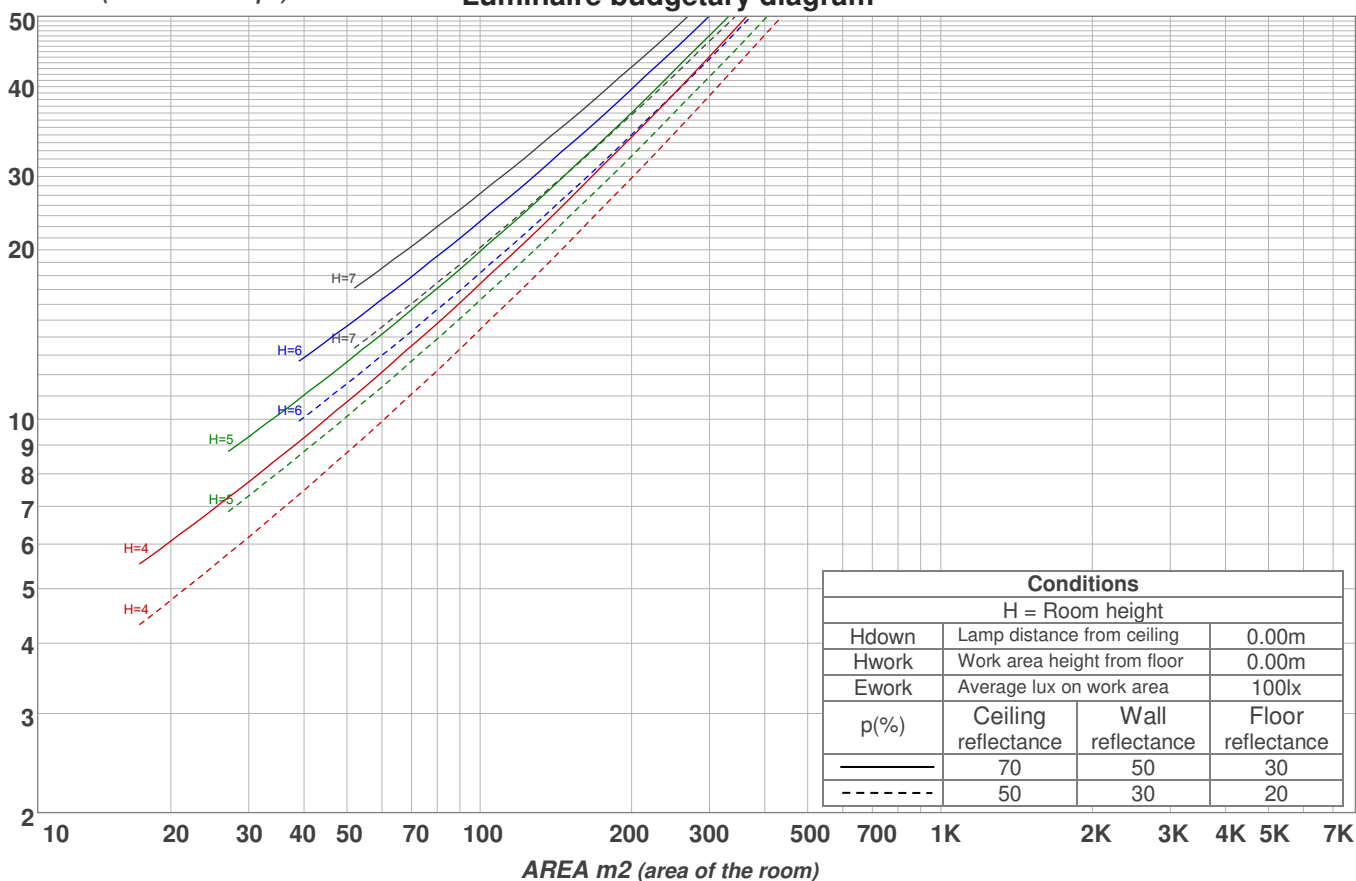
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X      Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	25,9	27,0	26,1	27,4	27,6	27,0	28,2	27,2	28,5	28,7
	3H	26,4	27,7	26,9	27,9	28,1	28,2	29,4	28,6	29,7	29,9
	4H	26,6	27,7	27,0	28,0	28,2	28,5	29,7	29,0	30,0	30,2
	6H	26,6	27,6	26,9	27,9	28,3	28,8	29,8	29,1	30,1	30,4
	8H	26,6	27,6	26,9	27,9	28,3	28,8	29,7	29,1	30,1	30,5
	12H	26,5	27,5	26,9	27,8	28,3	28,7	29,7	29,1	30,0	30,5
4H	2H	26,4	27,5	26,8	27,8	28,1	27,3	28,5	27,7	28,7	29,0
	3H	27,2	28,1	27,6	28,5	28,9	28,7	29,7	29,1	30,0	30,5
	4H	27,3	28,1	27,7	28,6	29,1	29,1	29,9	29,5	30,4	30,9
	6H	27,3	28,1	27,8	28,5	28,9	29,3	30,1	29,8	30,5	30,8
	8H	27,3	28,0	27,8	28,4	28,8	29,3	30,1	29,8	30,4	30,8
	12H	27,2	27,9	27,7	28,3	28,8	29,3	29,9	29,8	30,4	30,8
8H	4H	27,4	28,1	27,9	28,5	28,9	29,1	29,8	29,6	30,2	30,6
	6H	27,5	28,0	28,0	28,5	29,0	29,3	29,9	29,8	30,4	30,9
	8H	27,5	28,0	28,0	28,5	29,1	29,4	29,9	29,9	30,4	31,1
	12H	27,5	27,9	28,0	28,4	29,0	29,5	29,9	30,0	30,4	31,0
12H	4H	27,3	28,0	27,8	28,4	28,9	29,0	29,7	29,5	30,1	30,6
	6H	27,5	28,0	28,0	28,5	29,1	29,3	29,8	29,9	30,4	31,0
	8H	27,5	27,9	28,1	28,4	29,0	29,4	29,8	30,0	30,3	30,9
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,2 / -0,3					0,1 / -0,1				
S = 1.5H		0,5 / -0,9					0,3 / -0,5				
S = 2.0H		1,2 / -2,1					1,0 / -1,3				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 991 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	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

LAMPS (number of lamps)

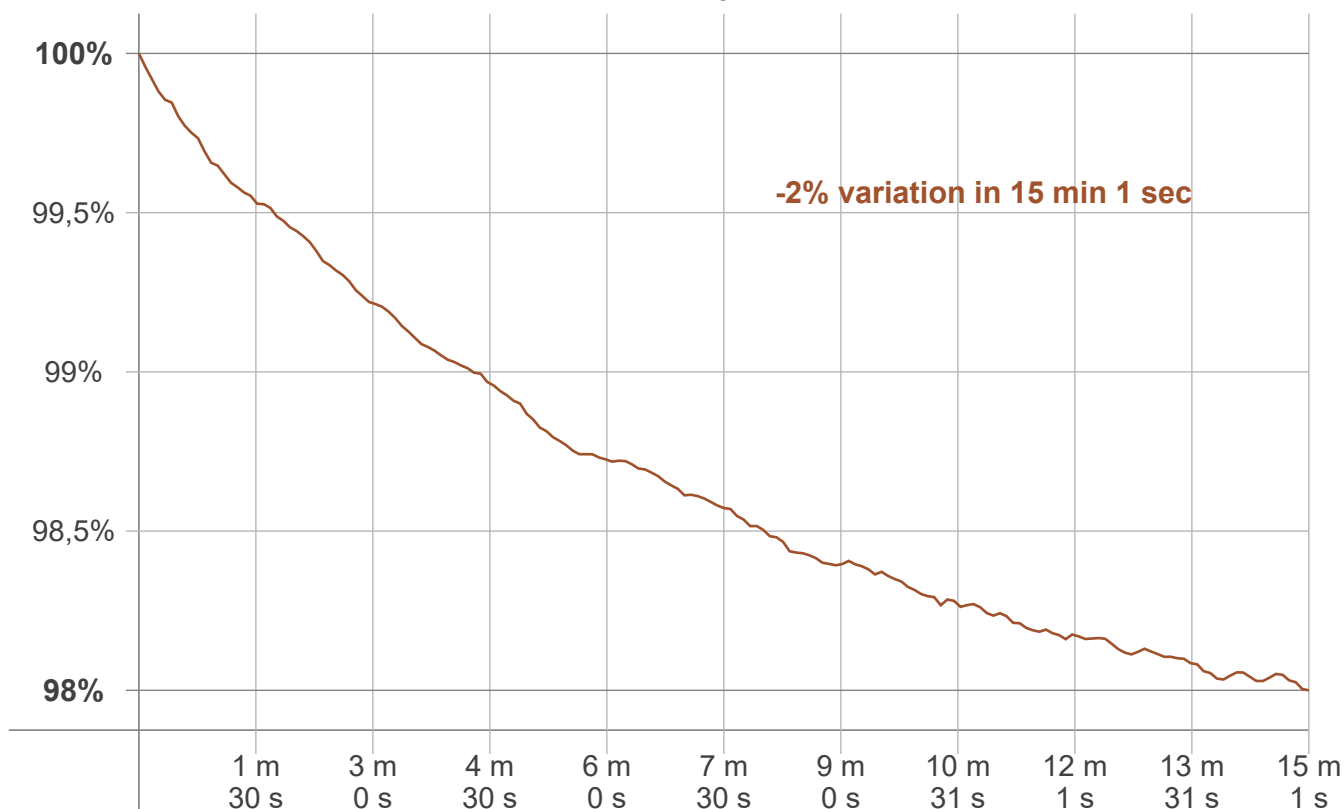
## Luminaire budgetary diagram



## Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
33,1 lm	94,9 lm	149 lm	182 lm	191 lm	169 lm	114 lm	45,8 lm	9,06 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,511 lm	0,852 lm	0,221 lm	0,200 lm	0,128 lm	0,070 lm	0,051 lm	0,031 lm	1,44 lm

## Warmup curve



## Warmup result

Warmup time:	Lamp stabilized in 15 min 1 sec
Warmup variation	-2,0%

## Warmup conditions

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

## Color temperature change

CCT start	CCT change	CCT end
2751 K	-2 K	2749 K

## Output change

Output start	Output change	Output end
1008 lm	-17 lm	991 lm