

### Light efficiency:

**48 Lumen/Watt**

### Light quality:

**CRI: 93,0**

### Color temperature:

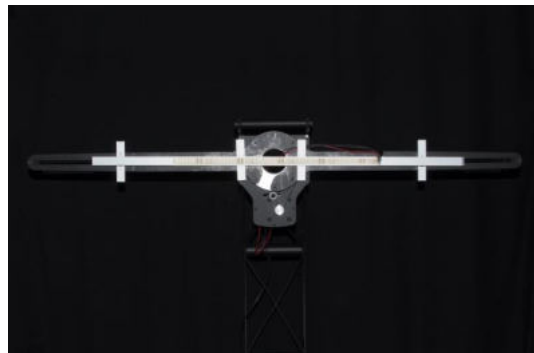
**2657 K**

**Output: 486 lm**

**Peak: 165 cd**

**Power: 10,1 W**

**PF: 1,0**



### Product name:

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

### Item number:

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

### Date and time:

**03.04.2025 15:30:24**

### 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:**

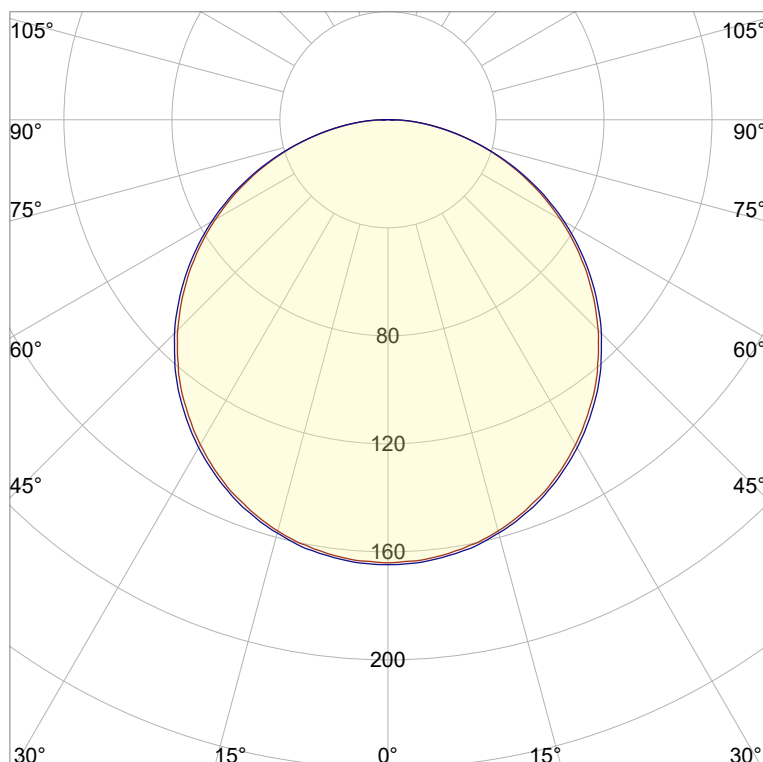
**Peter Ulrich**

**Test Site:**

**Lichtlabor**

**Gaustrasse 13**

**55411 Bingen am Rhein**

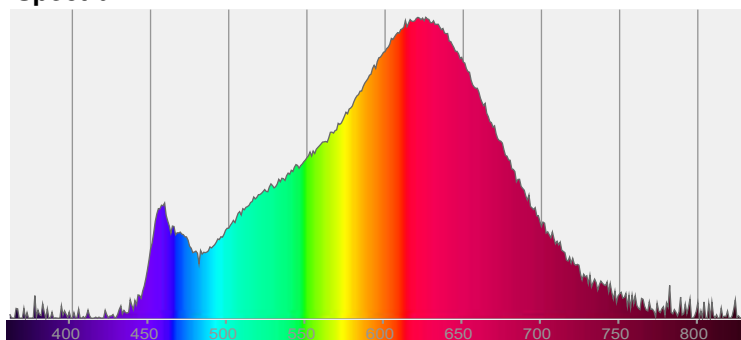


**CIE 1931**

**x: 0,464**

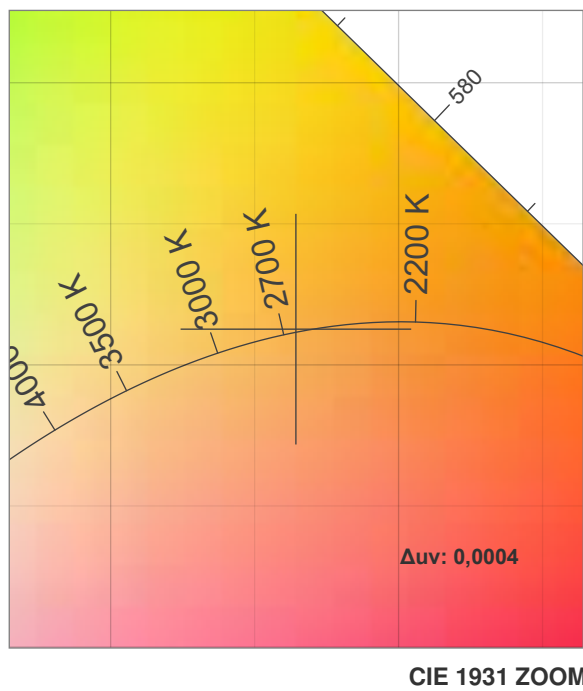
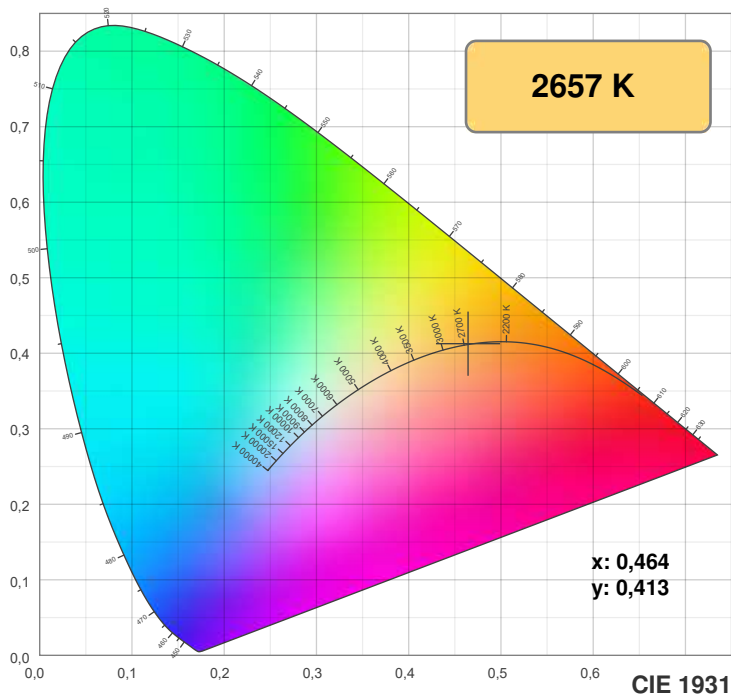
**y: 0,413**

### Spectra



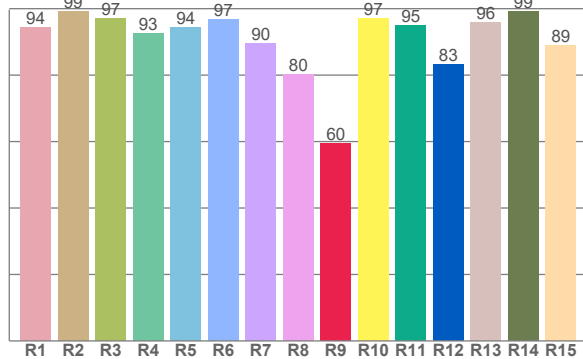
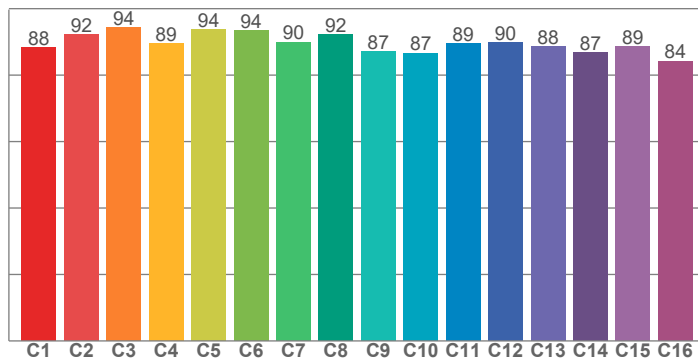
### Power

**Voltage: 48,0 V**  
**Current: 0,210 A**  
**Frequency: 0 Hz**



**TM30: 89,6**

**CRI: 93,0 (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
94,4	99,1	97,0	92,7	94,3	96,9	89,7	80,3	59,6	97,0	95,0	83,3	96,0	99,2	88,9

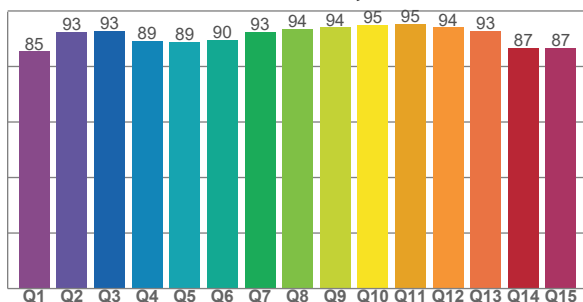
**TM30 C values, 16 binned values out of total of 99 C values**

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,3	92,3	94,3	89,5	93,7	93,5	90,0	92,1	87,2	86,7	89,5	89,7	88,5	86,8	88,6	84,2

**CQS Q values**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85,4	92,5	92,8	89,3	88,8	89,7	92,5	93,6	94,0	94,8	95,4	94,1	92,7	86,7	86,7

**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
2657 K	93,0	59,6	89,6	95,6	90,5	0,464	0,413	0,264	0,353	0,0004

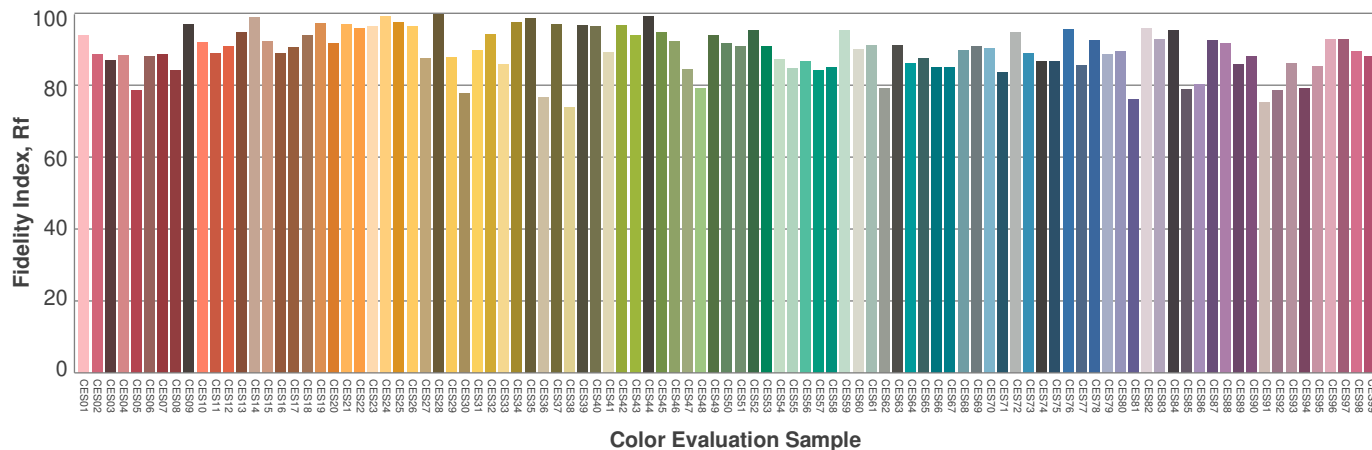
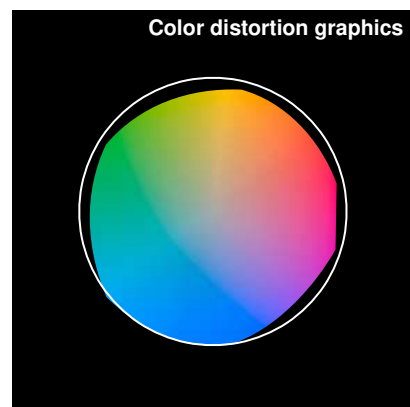
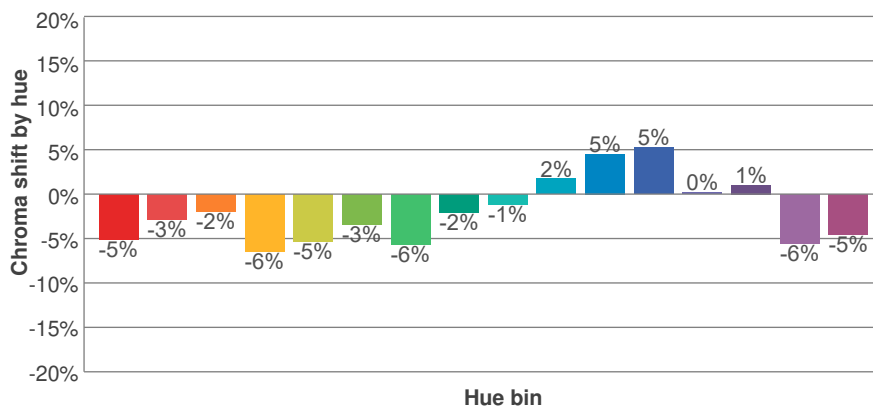
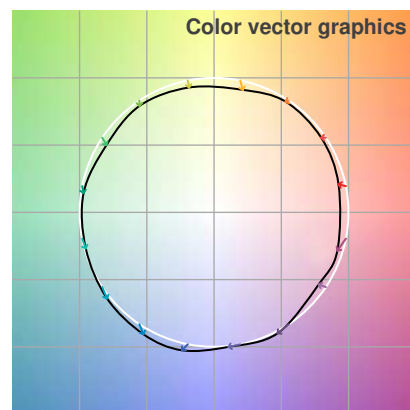
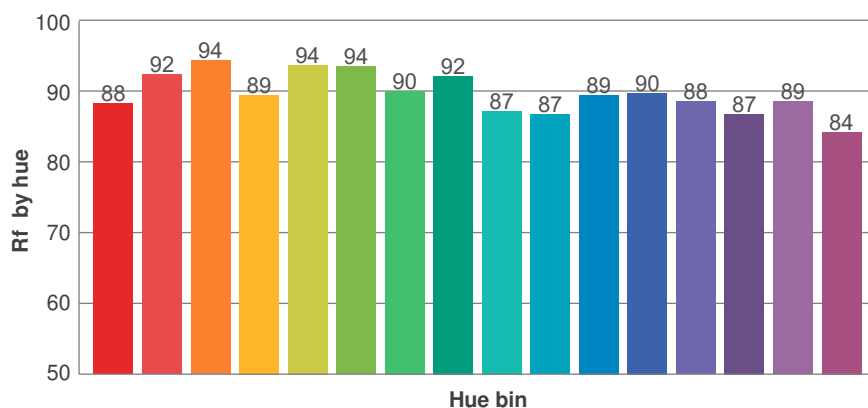
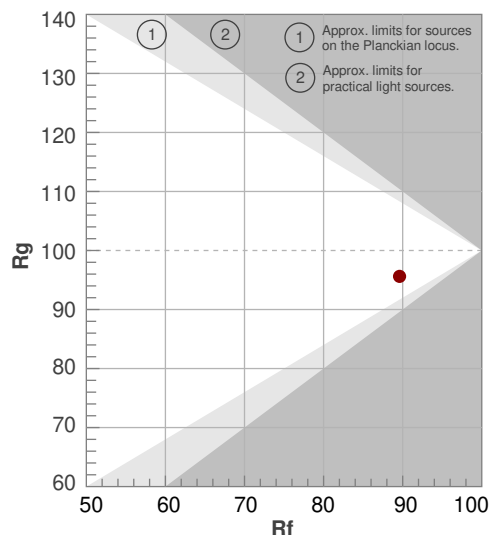
**Rf 89,6**

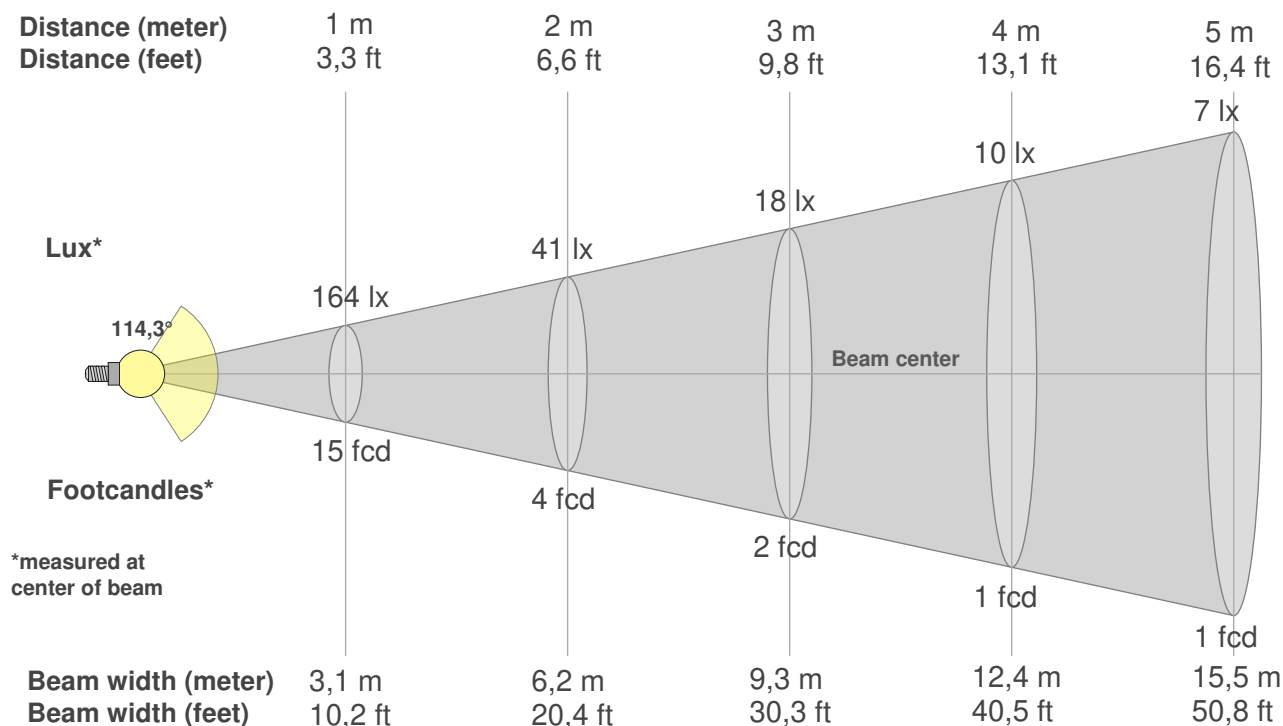
Fidelity index Rf

**Rg 95,6**

Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	88	-5%	2%
2	92	-3%	2%
3	94	-2%	2%
4	89	-6%	-3%
5	94	-5%	0%
6	94	-3%	2%
7	90	-6%	3%
8	92	-2%	5%
9	87	-1%	8%
10	87	2%	9%
11	89	5%	7%
12	90	5%	-3%
13	88	0%	-9%
14	87	1%	-11%
15	89	-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
164lx	41lx	18lx	10lx	7lx	5lx	3lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx
15,3fcd	3,8fcd	1,7fcd	1fcd	0,6fcd	0,4fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0fcd	0fcd	0fcd

## 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°
164	163	161	158	153	146	139	130	121	110	99	87	74	61	47	34	22	11	1	0
100%	99%	98%	96%	93%	89%	85%	79%	74%	67%	60%	53%	45%	37%	29%	21%	13%	7%	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°
164	164	162	158	154	147	140	132	122	112	100	88	75	62	48	34	22	11	1	0
100%	100%	99%	96%	94%	90%	85%	80%	74%	68%	61%	54%	46%	38%	29%	21%	13%	7%	1%	0%

## Intensities in 180° c-plane

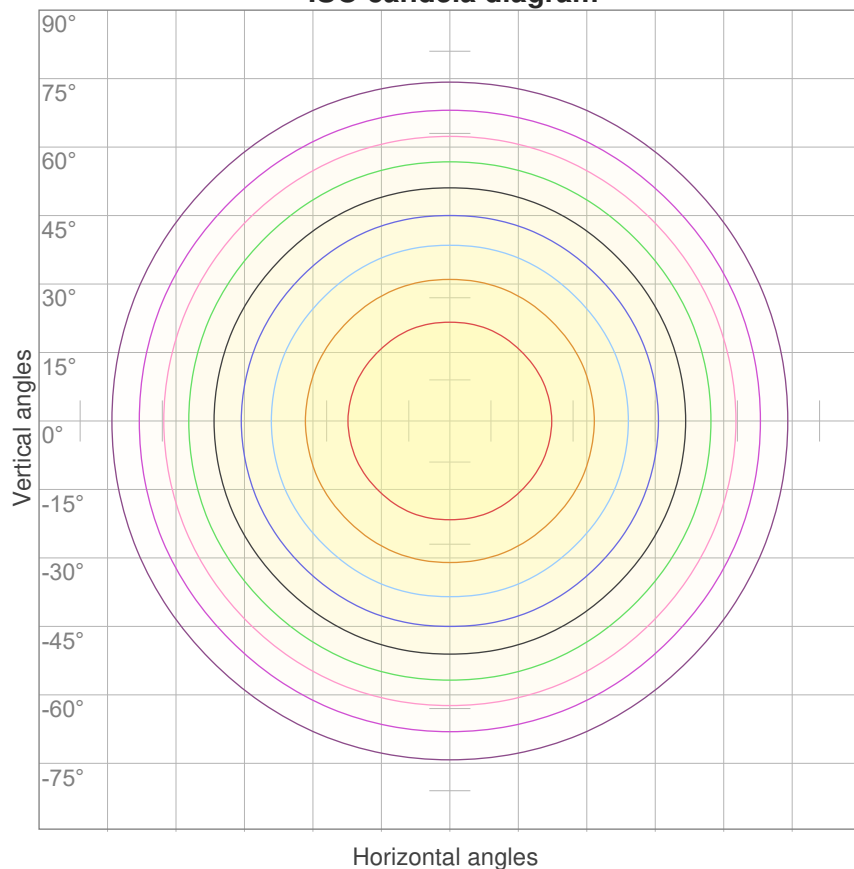
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
164	163	161	158	153	146	139	130	121	110	99	87	74	61	47	34	22	11	1	0
100%	99%	98%	96%	93%	89%	85%	79%	74%	67%	60%	53%	45%	37%	29%	21%	13%	7%	1%	0%

## 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°
164	164	162	158	154	147	140	132	122	112	100	88	75	62	48	34	22	11	1	0
100%	100%	99%	96%	94%	90%	85%	80%	74%	68%	61%	54%	46%	38%	29%	21%	13%	7%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114,3°	165°	176,8°	76,6%	51,9%

## ISO candela diagram



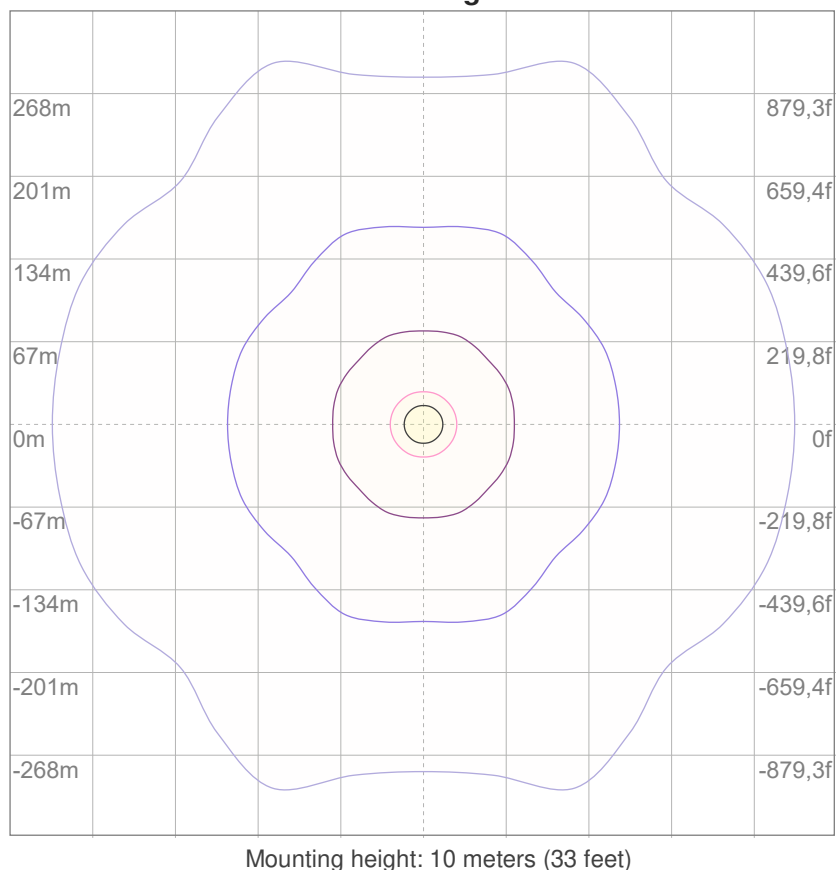
10%	16 cd
20%	33 cd
30%	49 cd
40%	66 cd
50%	82 cd
60%	99 cd
70%	115 cd
80%	131 cd
90%	148 cd

### Conditions:

Number of c-planes: 16

Candela at center: 164 cd

## ISO lux diagram



3%	49,3m lx
5%	82,1m lx
10%	0,164 lx
30%	0,493 lx
50%	0,821 lx

### Conditions:

Number of c-planes: 16

Lux at center: 1,64 lx

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

### Glare Evaluation According to UGR

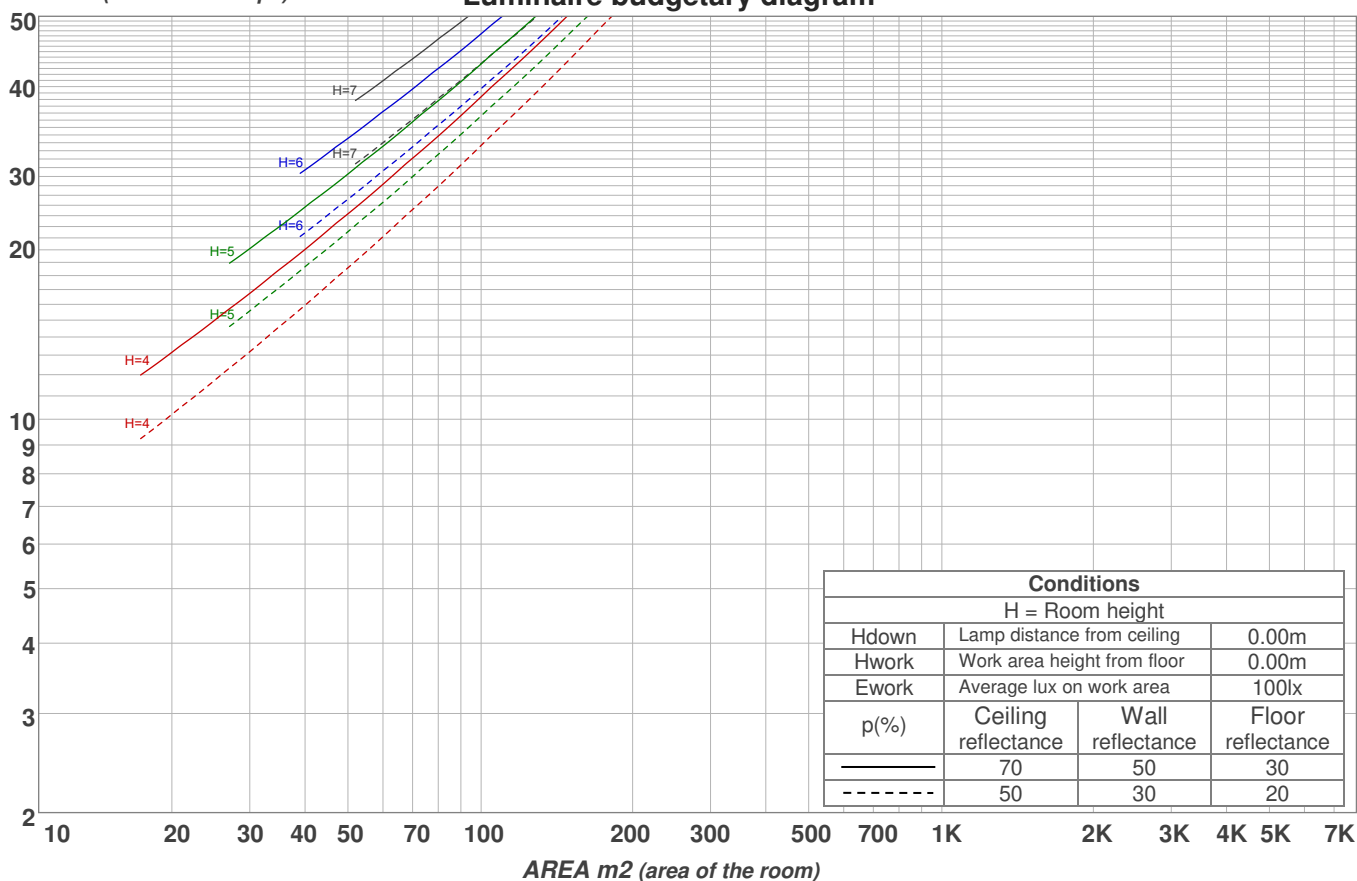
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X      Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	23,3	24,5	23,5	24,8	25,1	24,1	25,3	24,3	25,6	25,9
	3H	24,5	25,8	25,0	26,1	26,3	25,6	26,9	26,0	27,2	27,4
	4H	25,1	26,3	25,5	26,6	26,8	26,3	27,5	26,7	27,8	28,1
	6H	25,5	26,6	25,8	26,8	27,2	26,9	28,0	27,2	28,3	28,6
	8H	25,6	26,6	25,9	26,9	27,3	27,1	28,1	27,4	28,4	28,8
	12H	25,6	26,6	26,0	27,0	27,4	27,2	28,2	27,6	28,6	29,0
4H	2H	23,9	25,1	24,3	25,4	25,7	24,5	25,8	24,9	26,0	26,3
	3H	25,5	26,5	25,8	26,8	27,3	26,4	27,4	26,7	27,7	28,2
	4H	26,0	27,0	26,5	27,4	27,9	27,1	28,0	27,5	28,4	29,0
	6H	26,5	27,4	27,0	27,7	28,1	27,7	28,6	28,2	29,0	29,4
	8H	26,6	27,4	27,1	27,8	28,2	28,0	28,8	28,5	29,2	29,5
	12H	26,7	27,4	27,2	27,8	28,3	28,1	28,8	28,6	29,2	29,7
8H	4H	26,3	27,1	26,8	27,5	27,9	27,3	28,1	27,8	28,5	28,9
	6H	26,9	27,6	27,4	28,0	28,6	28,0	28,7	28,5	29,1	29,7
	8H	27,2	27,7	27,7	28,2	28,9	28,4	28,9	28,9	29,4	30,1
	12H	27,3	27,8	27,9	28,3	28,9	28,6	29,1	29,2	29,6	30,2
12H	4H	26,3	27,0	26,8	27,5	27,9	27,3	28,0	27,8	28,4	28,9
	6H	27,0	27,6	27,5	28,1	28,7	28,1	28,6	28,6	29,2	29,8
	8H	27,2	27,7	27,8	28,2	28,8	28,4	28,9	29,0	29,4	30,0
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,1					0,0 / -0,1				
S = 1.5H		0,2 / -0,3					0,1 / -0,2				
S = 2.0H		0,5 / -0,7					0,5 / -0,6				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 486 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	108	103	99	95	105	101	97	93	96	93	90	92	90	87	89	86	84	82
2	98	90	83	77	95	88	81	76	84	78	74	81	76	72	77	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	63	59	57
4	82	69	60	53	79	68	60	53	65	58	52	63	57	51	61	55	51	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

LAMPS (number of lamps)

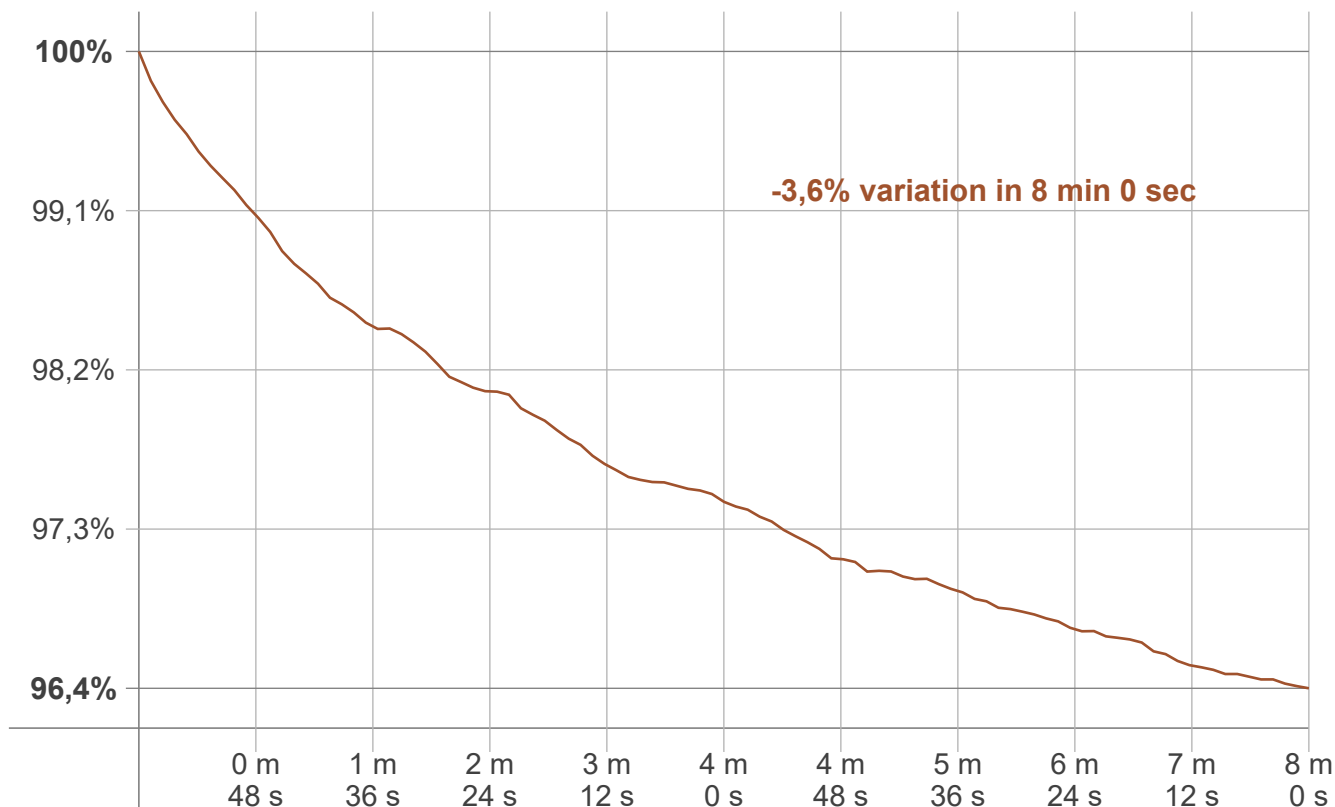
Luminaire budgetary diagram



## Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
14,9 lm	44,8 lm	66,8 lm	83,0 lm	84,8 lm	77,6 lm	61,8 lm	36,6 lm	12,5 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,933 lm	0,510 lm	0,238 lm	0,215 lm	0,185 lm	0,150 lm	0,111 lm	0,068 lm	0,504 lm

### Warmup curve



### Warmup result

Warmup time:	Not completed
Warmup variation	-3,6%

### Warmup conditions

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

### Color temperature change

CCT start	CCT change	CCT end
2660 K	-3 K	2657 K

### Output change

Output start	Output change	Output end
502 lm	-16 lm	486 lm