

Light efficiency:

90 Lumen/Watt

Light quality:

CRI: 92,8

Color temperature:

2778 K

Output: 1032 lm

Peak: 2022 cd

Power: 11,5 W

PF: 1,0



Product name:

**Jago-2\_510mm\_927\_Inlay-Lens-Wallwasher**

Item number:

**NP/L1C/19B/0510/927/ILWW**

Date and time:

**26.06.2025 09:40:36**

Description:

**Rank: C80-AC-8GB**

**Einschub unten**

**Tolerances:**

**Lumen +/-4%**

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

**Colour Temp +/-35 Kelvin**

**CRI +/-0,7**

**Angular Resolution: 1 Degree Step**

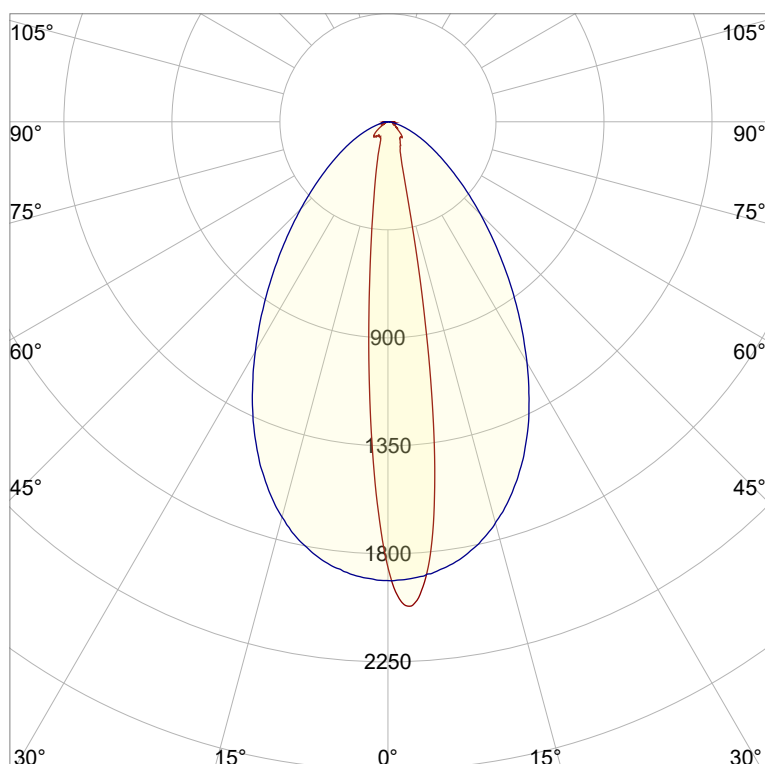
**Last Calibration 13.10.2023**

**Tester: Peter Ulrich**

**Test Site: Lichtlabor**

**Gaustrasse 13**

**55411 Bingen am Rhein**

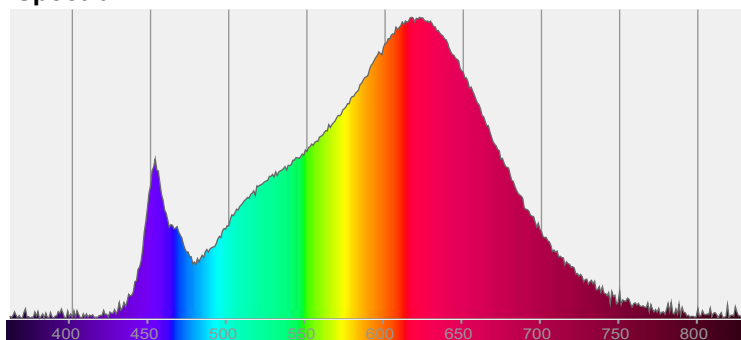


CIE 1931

x: 0,451

y: 0,403

Spectra

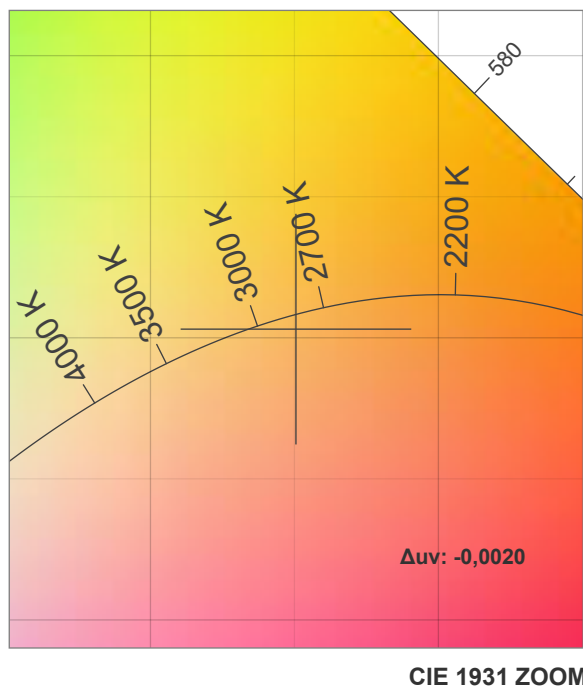
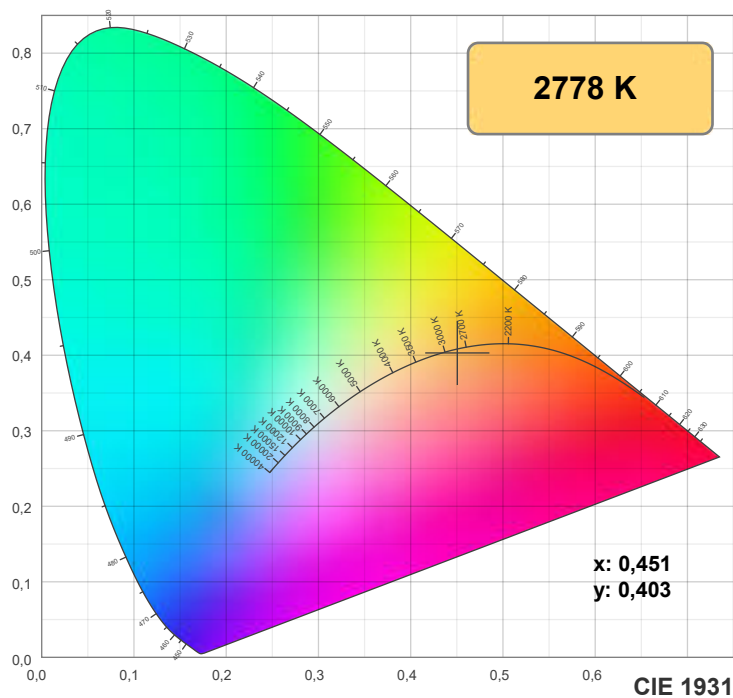


Power

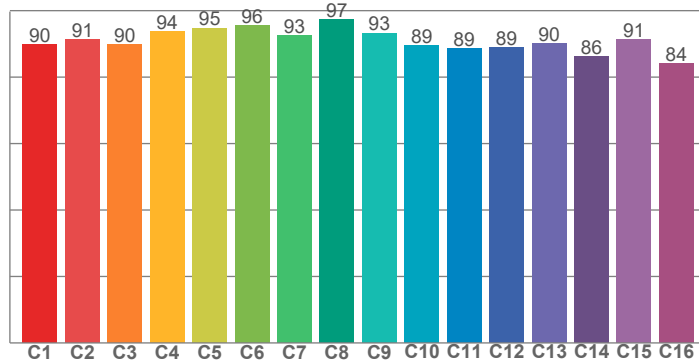
Voltage: 48,0 V

Current: 0,240 A

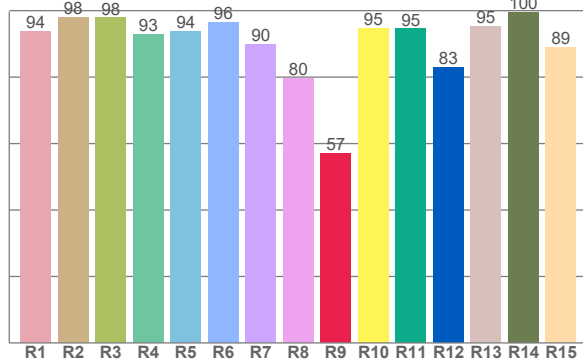
Frequency: 0 Hz



**TM30: 91,0**



**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
93,8	98,0	97,8	92,9	93,8	96,4	89,7	79,6	57,0	94,6	94,5	83,0	95,3	99,6	88,9

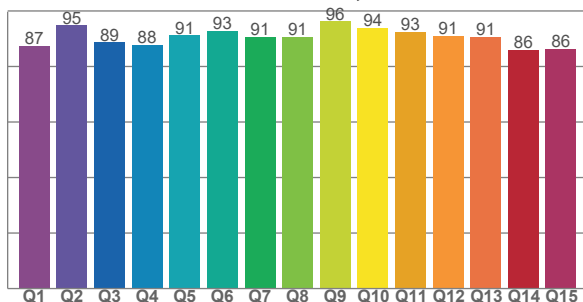
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,8	91,5	89,8	93,8	94,8	95,6	92,5	97,5	93,3	89,5	88,6	89,0	90,1	86,3	91,2	84,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87,3	94,7	88,7	87,8	91,2	92,8	90,6	90,7	96,2	94,0	92,5	91,1	90,6	86,1	86,3

**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
2778 K	92,8	57,0	91,0	99,2	90,1	0,451	0,403	0,260	0,349	-0,0020



## TM30 details



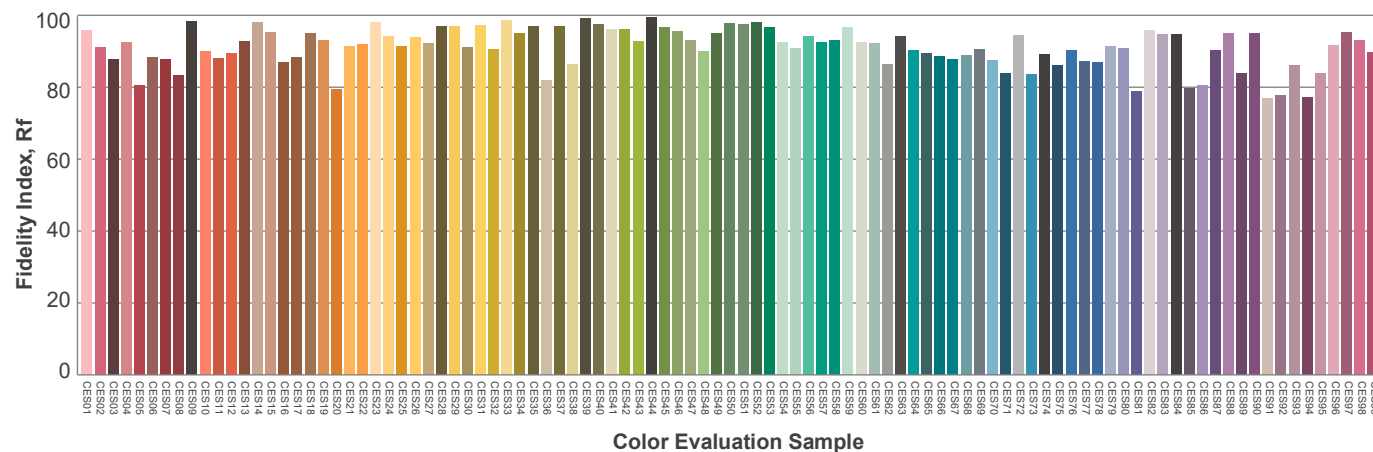
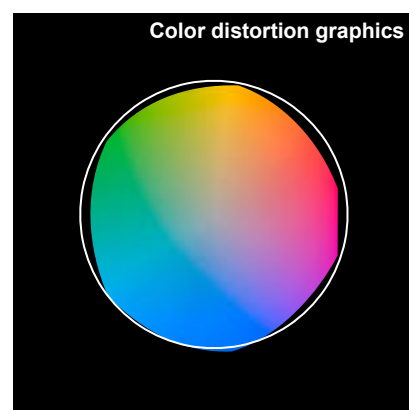
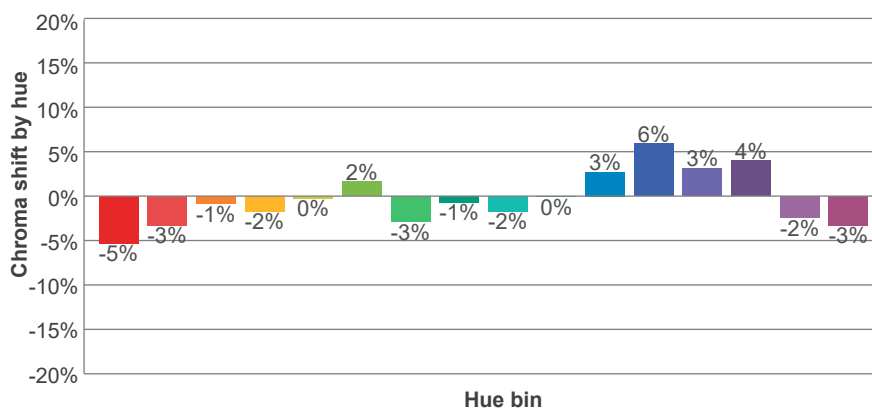
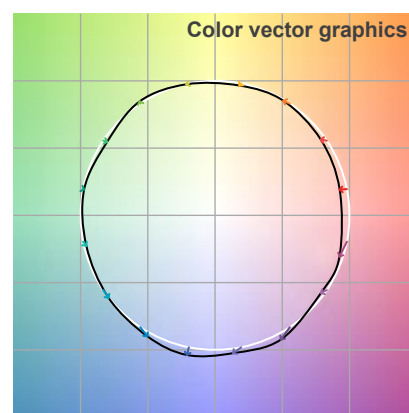
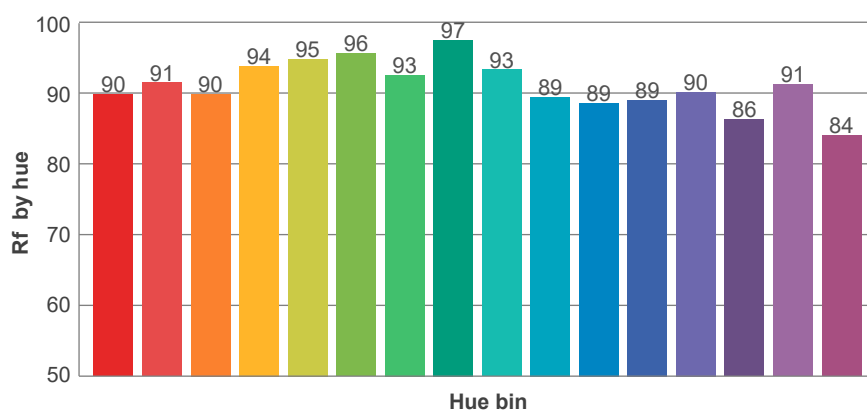
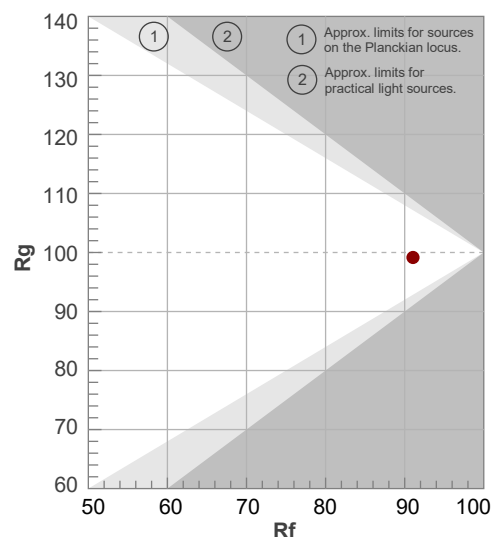
**Rf 91,0**

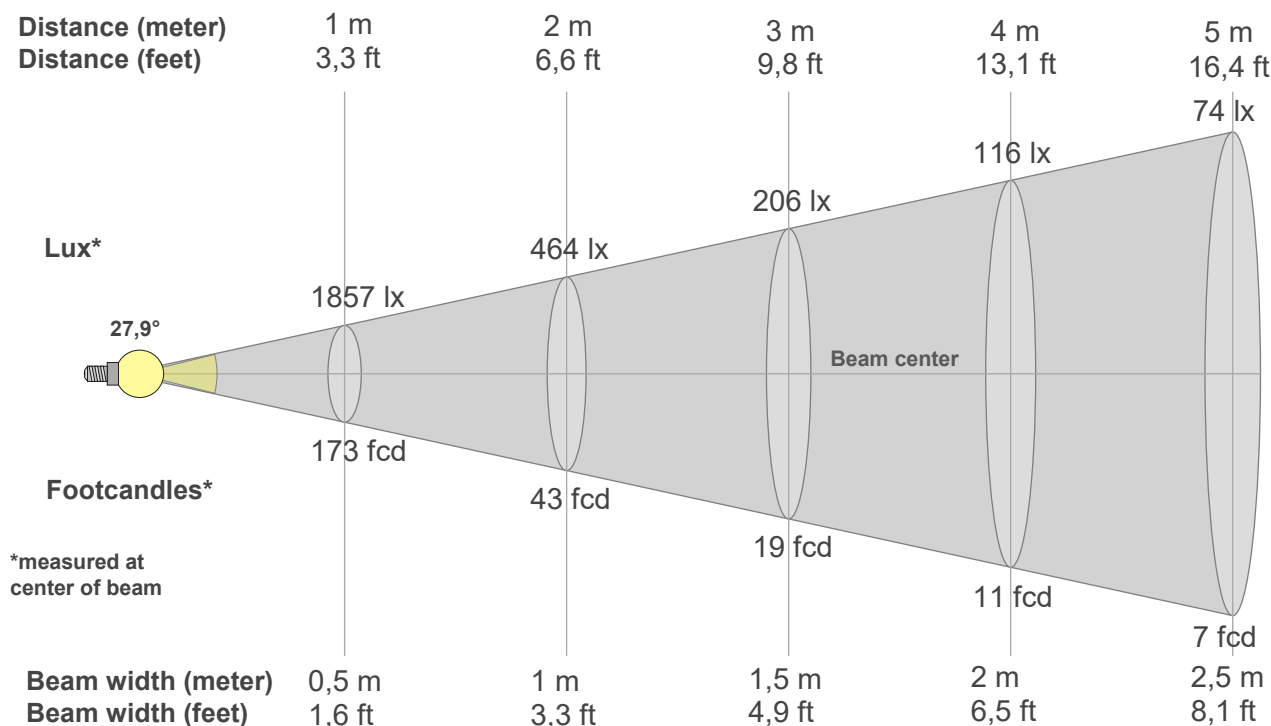
Fidelity index Rf

**Rg 99,2**

Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	1%
2	91	-3%	3%
3	90	-1%	5%
4	94	-2%	1%
5	95	0%	2%
6	96	2%	0%
7	93	-3%	-1%
8	97	-1%	0%
9	93	-2%	3%
10	89	0%	7%
11	89	3%	8%
12	89	6%	0%
13	90	3%	-7%
14	86	4%	-11%
15	91	-2%	-4%
16	84	-3%	-12%





## 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
1857lx	464lx	206lx	116lx	74lx	52lx	38lx	29lx	23lx	19lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	5lx
172,5fcd	43,1fcd	19,2fcd	10,8fcd	6,9fcd	4,8fcd	3,5fcd	2,7fcd	2,1fcd	1,7fcd	1,4fcd	1,2fcd	1fcd	0,9fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd

## 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°
1857	2014	1965	1754	1394	961	595	365	252	192	160	138	125	115	111	101	97	89	84	83
100%	108%	106%	94%	75%	52%	32%	20%	14%	10%	9%	7%	7%	6%	6%	5%	5%	5%	5%	4%

## 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°
1857	1906	1896	1876	1854	1821	1782	1733	1676	1611	1540	1460	1377	1289	1197	1105	1015	925	840	759
100%	103%	102%	101%	100%	98%	96%	93%	90%	87%	83%	79%	74%	69%	64%	59%	55%	50%	45%	41%

## Intensities in 180° c-plane

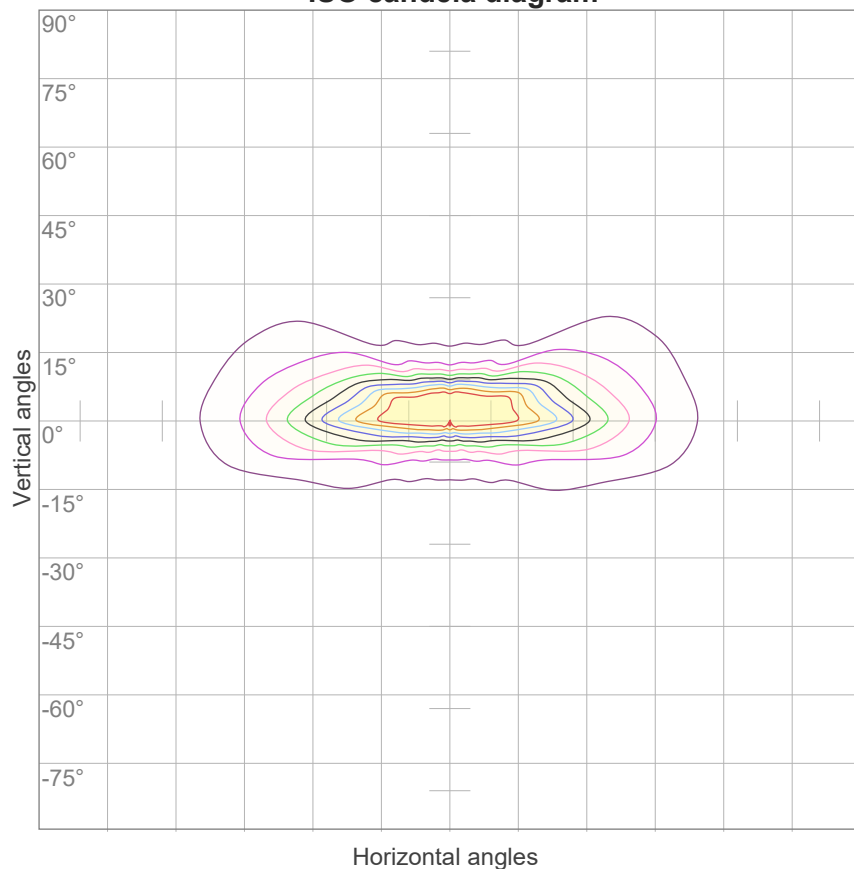
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1857	1512	1106	749	500	347	256	195	153	119	94	80	74	71	71	72	71	69	72	79
100%	81%	60%	40%	27%	19%	14%	10%	8%	6%	5%	4%	4%	4%	4%	4%	4%	4%	4%	4%

## 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°
1857	1909	1900	1885	1864	1837	1801	1756	1703	1645	1580	1507	1426	1340	1250	1159	1067	977	891	805
100%	103%	102%	102%	100%	99%	97%	95%	92%	89%	85%	81%	77%	72%	67%	62%	57%	53%	48%	43%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27,9°	60,8°	121,9°	89,4%	74,7%

## ISO candela diagram



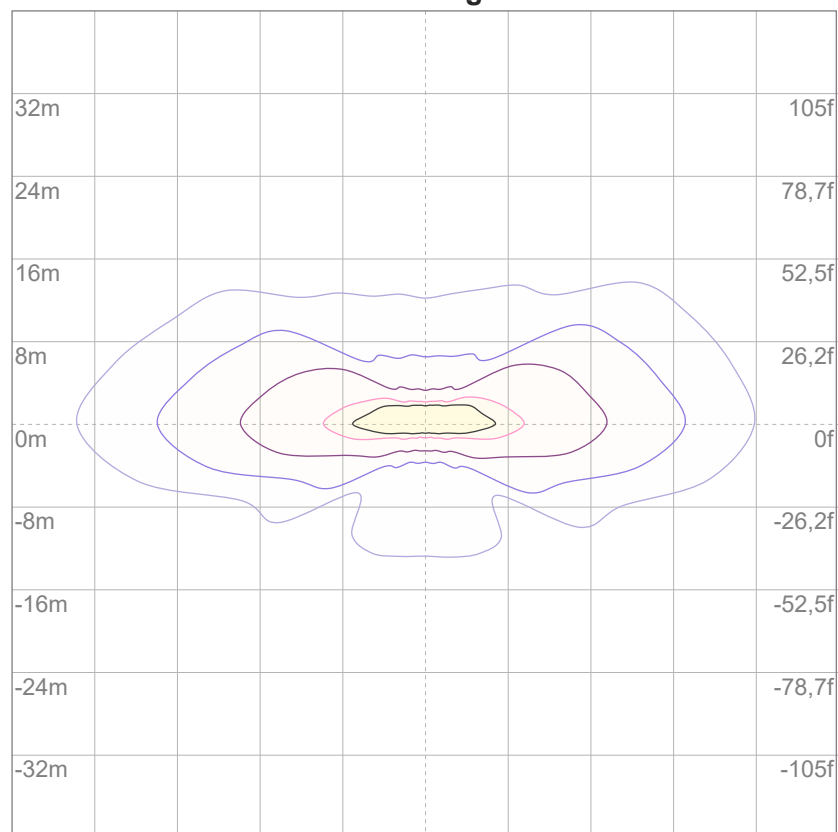
10%	186 cd
20%	371 cd
30%	557 cd
40%	743 cd
50%	929 cd
60%	1114 cd
70%	1300 cd
80%	1486 cd
90%	1671 cd

### Conditions:

Number of c-planes: 16

Candela at center: 1857 cd

## ISO lux diagram



3%	0,557 lx
5%	0,929 lx
10%	1,86 lx
30%	5,57 lx
50%	9,29 lx

### Conditions:

Number of c-planes: 16

Lux at center: 18,6 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 1032 lm total luminous flux										

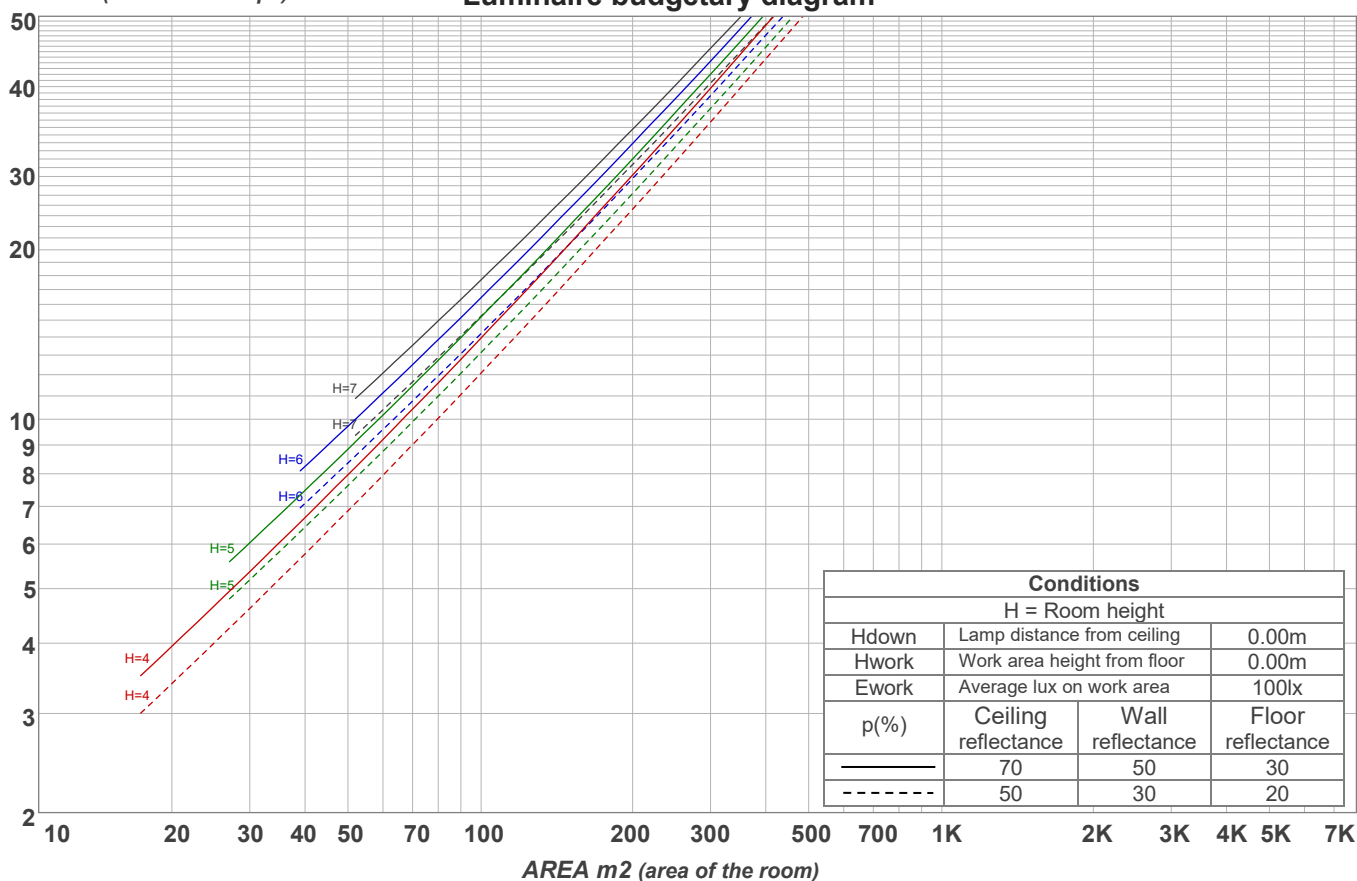
UGR data could not be calculated due to missing/wrong symmetry. Go to Edit -> Photometric -> Corrections and select Correct asymmetry (UGR not defined for asymmetrical distributions)..

## 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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88
2	104	97	92	87	101	95	91	86	92	88	85	89	86	83	86	83	81	79
3	97	89	82	77	95	87	81	77	85	80	75	82	78	74	80	76	73	71
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55
7	76	66	59	54	75	65	58	53	64	58	53	62	57	53	61	56	53	51
8	73	62	55	50	71	61	54	50	60	54	50	59	53	49	58	53	49	48
9	69	58	51	47	68	57	51	47	56	51	46	56	50	46	55	50	46	45
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42

LAMPS (number of lamps)

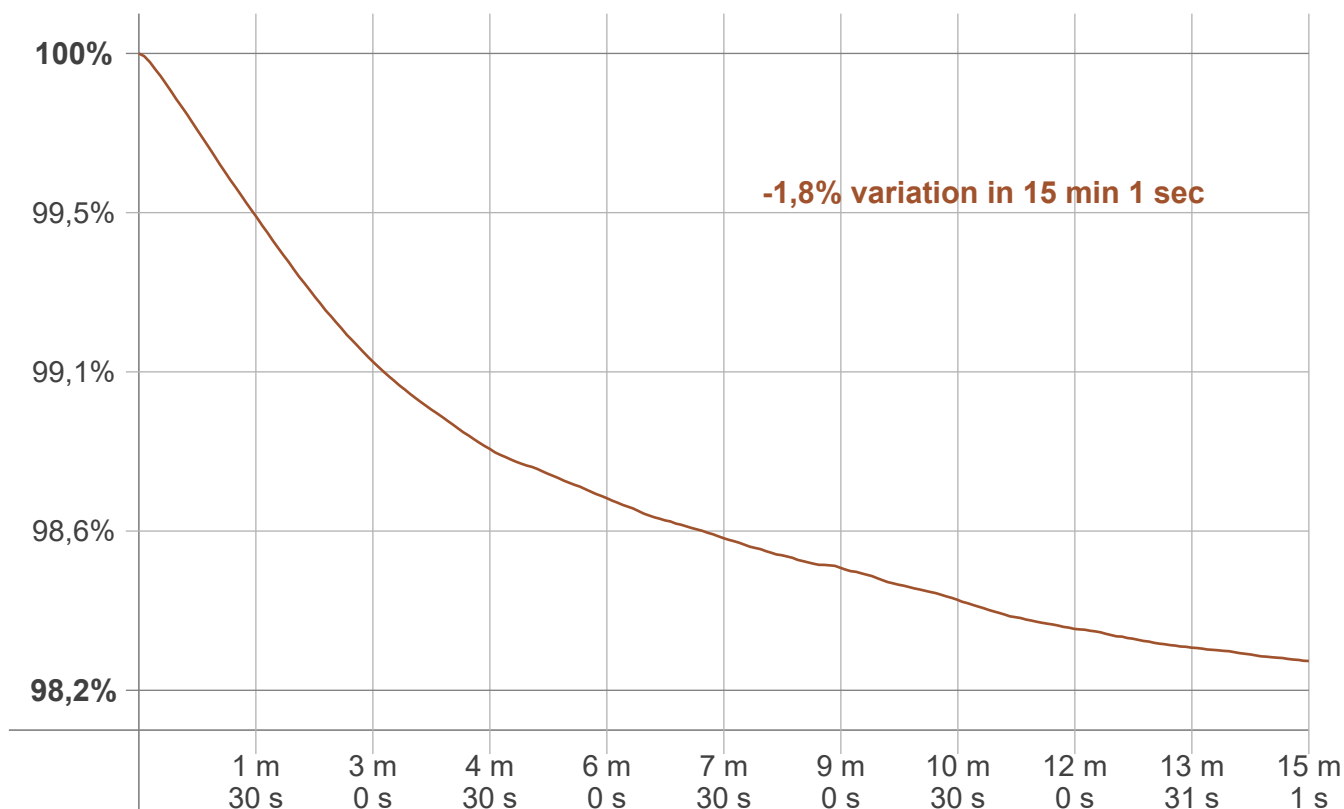
## Luminaire budgetary diagram



## Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
139 lm	215 lm	189 lm	160 lm	130 lm	90,5 lm	53,4 lm	32,4 lm	23,5 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,051 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 1 sec
Warmup variation	-1,8%

## Warmup conditions

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

## Color temperature change

CCT start	CCT change	CCT end
2781 K	-3 K	2778 K

## Output change

Output start	Output change	Output end
1050 lm	-18 lm	1032 lm