

### Light efficiency:

**106 Lumen/Watt**

### Light quality:

**CRI: 81,8**

### Color temperature:

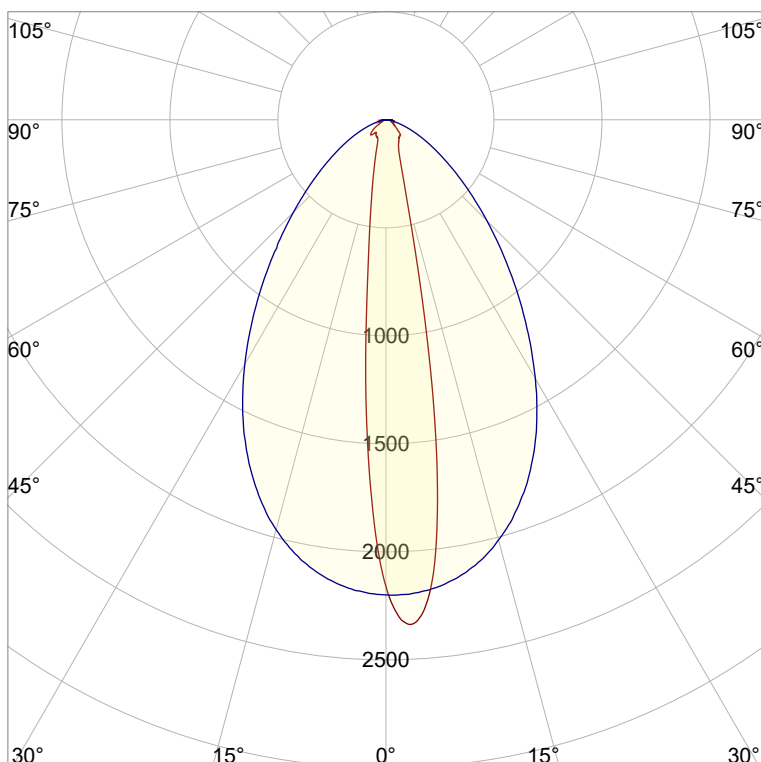
**2771 K**

**Output: 1219 lm**

**Peak: 2338 cd**

**Power: 11,5 W**

**PF: 1,0**



### Product name:

**Nova-6\_510mm\_827\_Inlay-Lens-Wallwasher**

### Item number:

**NP/L1C/06F/0510/827/ILWW**

### Date and time:

**21.07.2025 12:37:48**

### Description:

**Rank: D60-AC-8GB**

**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**

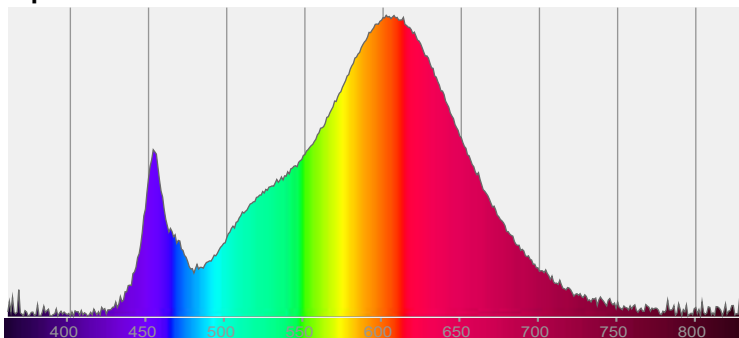


**CIE 1931**

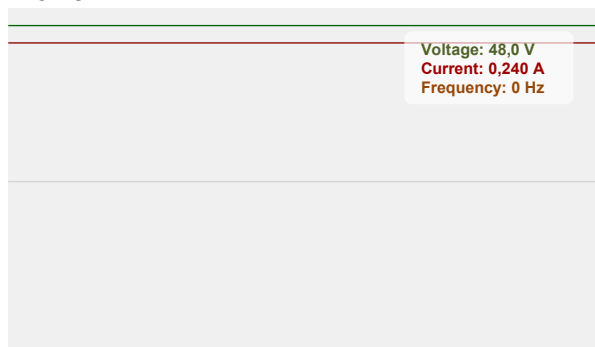
**x: 0,451**

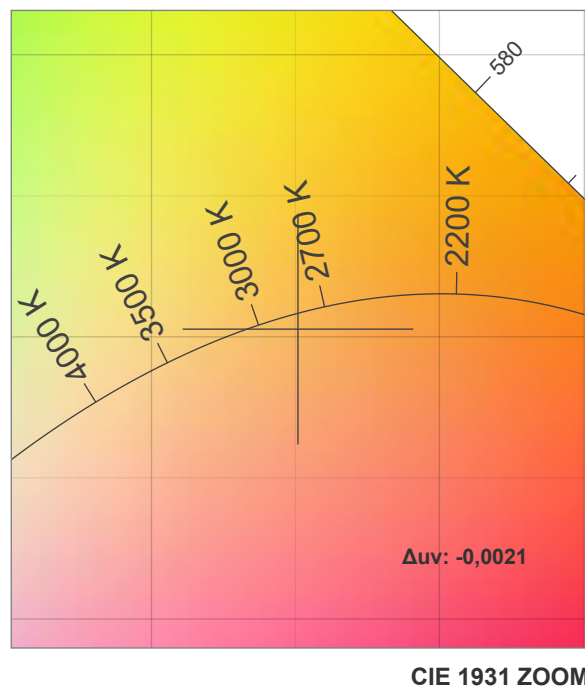
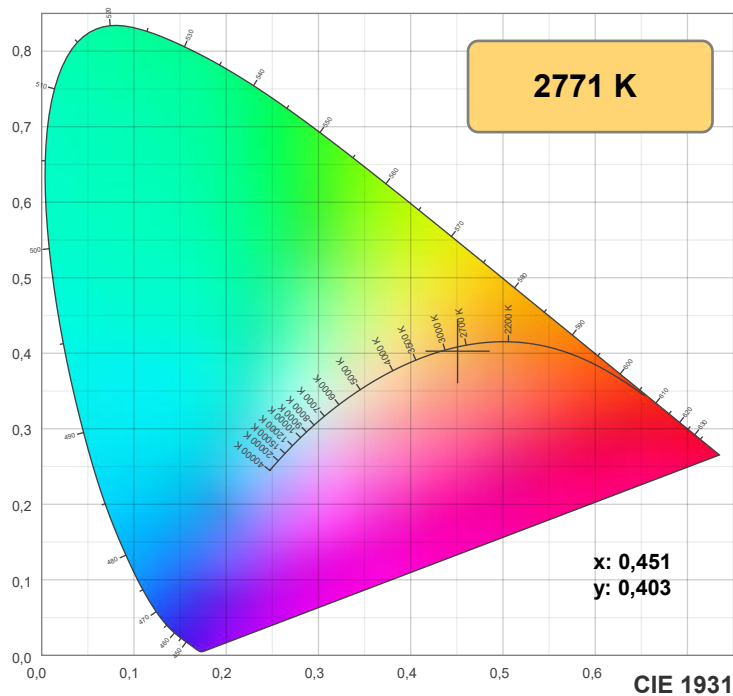
**y: 0,403**

### Spectra



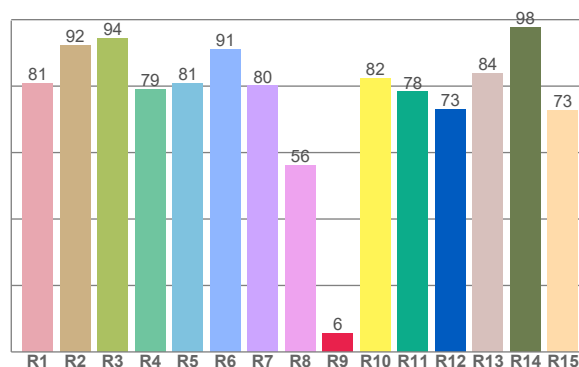
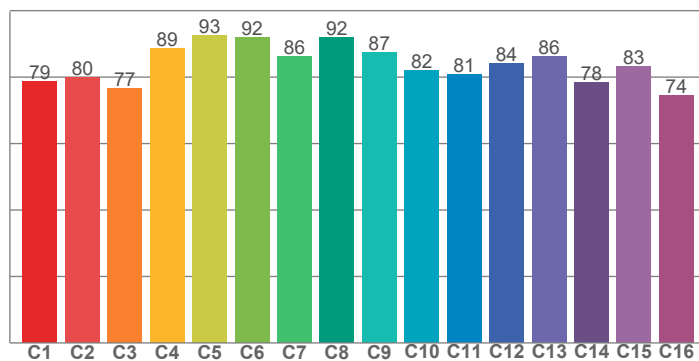
### Power





**TM30: 83,7**

**CRI: 81,8 (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
80,8	92,2	94,3	78,9	81,0	90,9	80,1	56,1	5,6	82,4	78,3	73,0	83,7	97,8	72,7

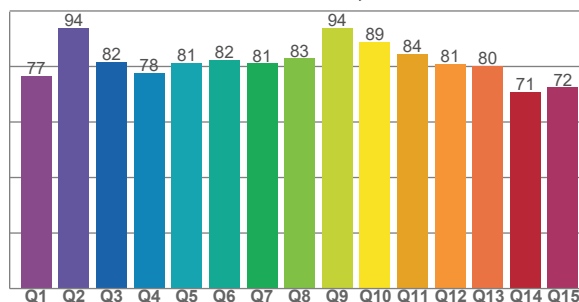
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
78,7	79,8	76,5	88,7	92,7	92,1	86,2	91,9	87,3	82,0	80,7	84,2	86,2	78,5	83,2	74,5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76,6	93,9	81,6	77,6	81,2	82,3	81,1	82,9	94,0	88,8	84,5	80,9	80,1	70,8	72,4

**CQS: 80,7**



## 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	$\Delta uv$
2771 K	81,8	5,6	83,7	95,9	80,7	0,451	0,403	0,260	0,349	-0,0021

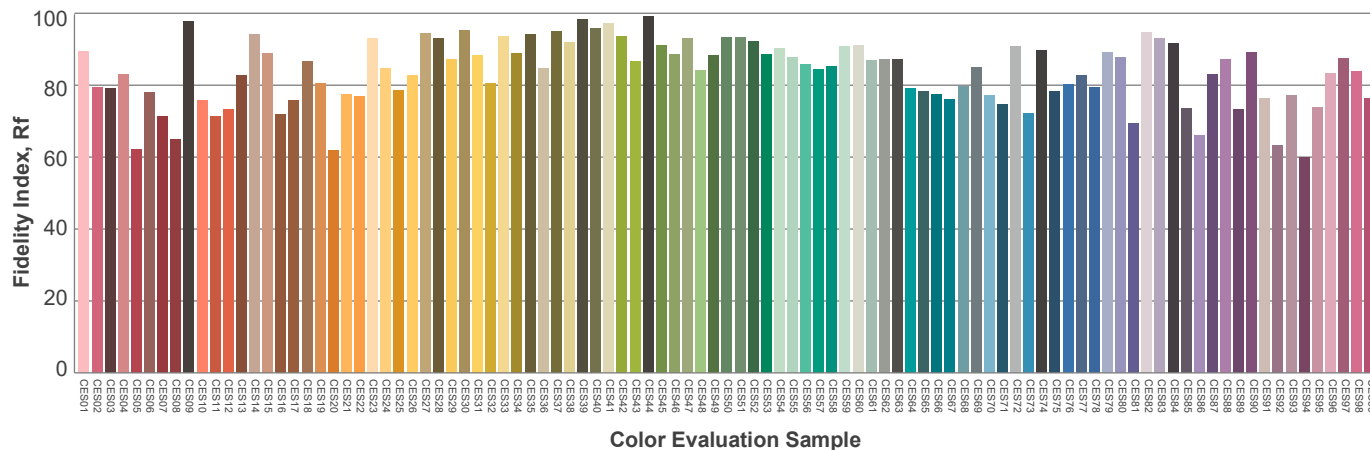
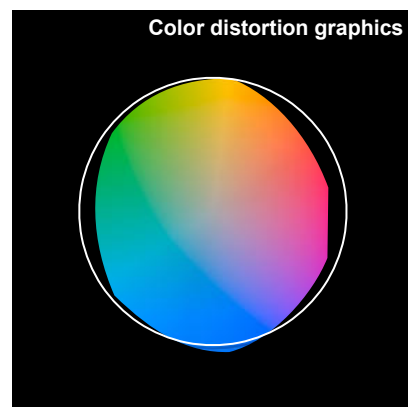
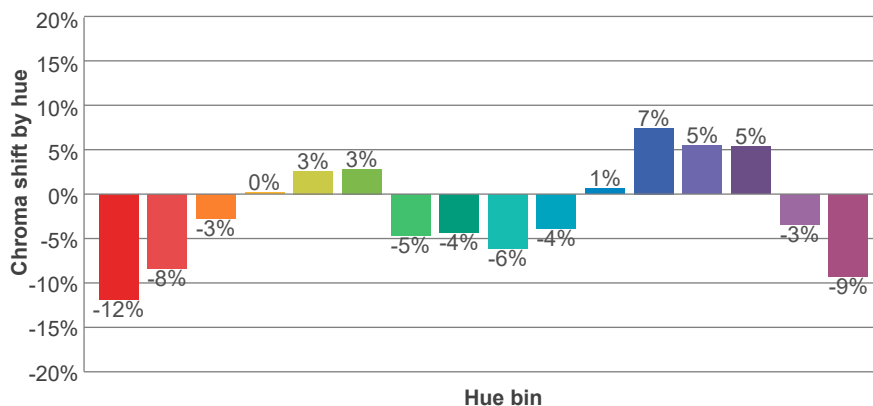
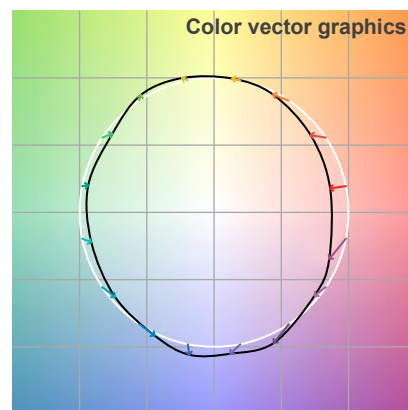
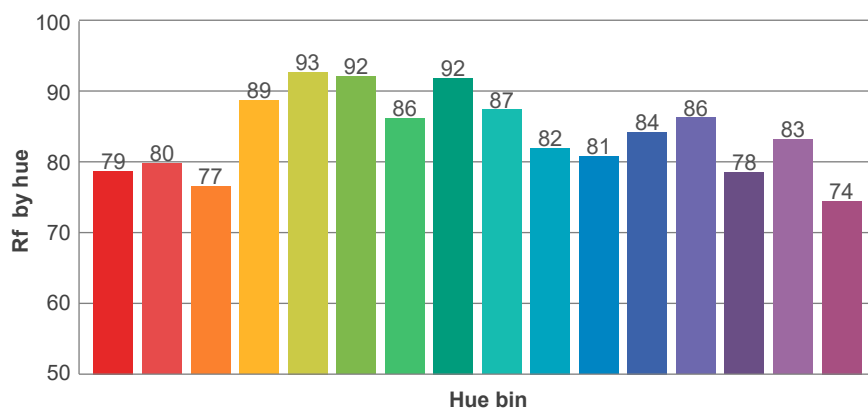
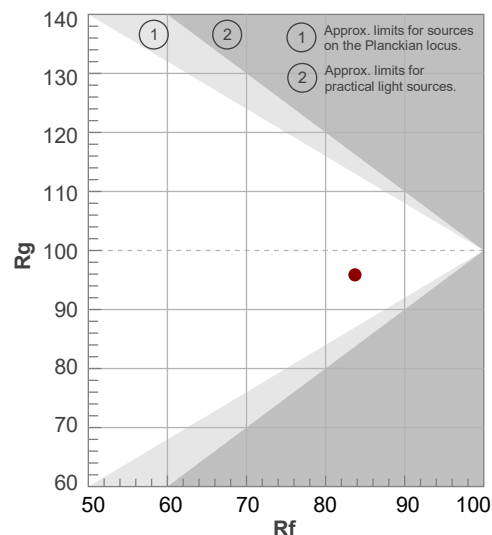
**Rf 83,7**

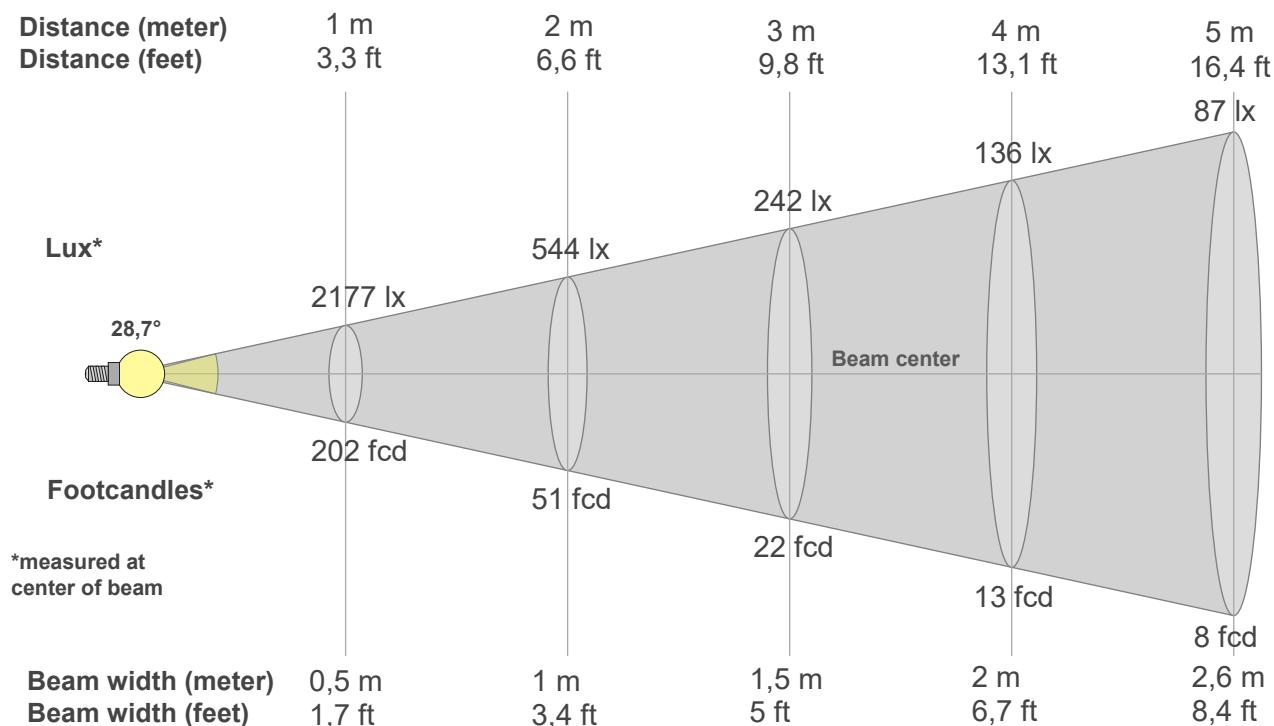
Fidelity index Rf

**Rg 95,9**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	-12%	1%
2	80	-8%	8%
3	77	-3%	12%
4	89	0%	6%
5	93	3%	4%
6	92	3%	-3%
7	86	-5%	-7%
8	92	-4%	-1%
9	87	-6%	4%
10	82	-4%	11%
11	81	1%	14%
12	84	7%	3%
13	86	5%	-9%
14	78	5%	-17%
15	83	-3%	-10%
16	74	-9%	-17%





## 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
2177lx	544lx	242lx	136lx	87lx	60lx	44lx	34lx	27lx	22lx	18lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx	5lx
202,3fcd	50,6fcd	22,5fcd	12,6fcd	8,1fcd	5,6fcd	4,1fcd	3,2fcd	2,5fcd	2fcd	1,7fcd	1,4fcd	1,2fcd	1fcd	0,9fcd	0,8fcd	0,7fcd	0,6fcd	0,6fcd	0,5fcd

## 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°
2177	2323	2303	2106	1712	1205	728	444	307	233	188	161	144	133	125	118	112	108	103	101
100%	107%	106%	97%	79%	55%	33%	20%	14%	11%	9%	7%	7%	6%	6%	5%	5%	5%	5%	5%

## 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°
2177	2194	2180	2159	2129	2092	2048	1994	1933	1862	1783	1699	1608	1512	1410	1306	1202	1099	997	898
100%	101%	100%	99%	98%	96%	94%	92%	89%	86%	82%	78%	74%	69%	65%	60%	55%	50%	46%	41%

## Intensities in 180° c-plane

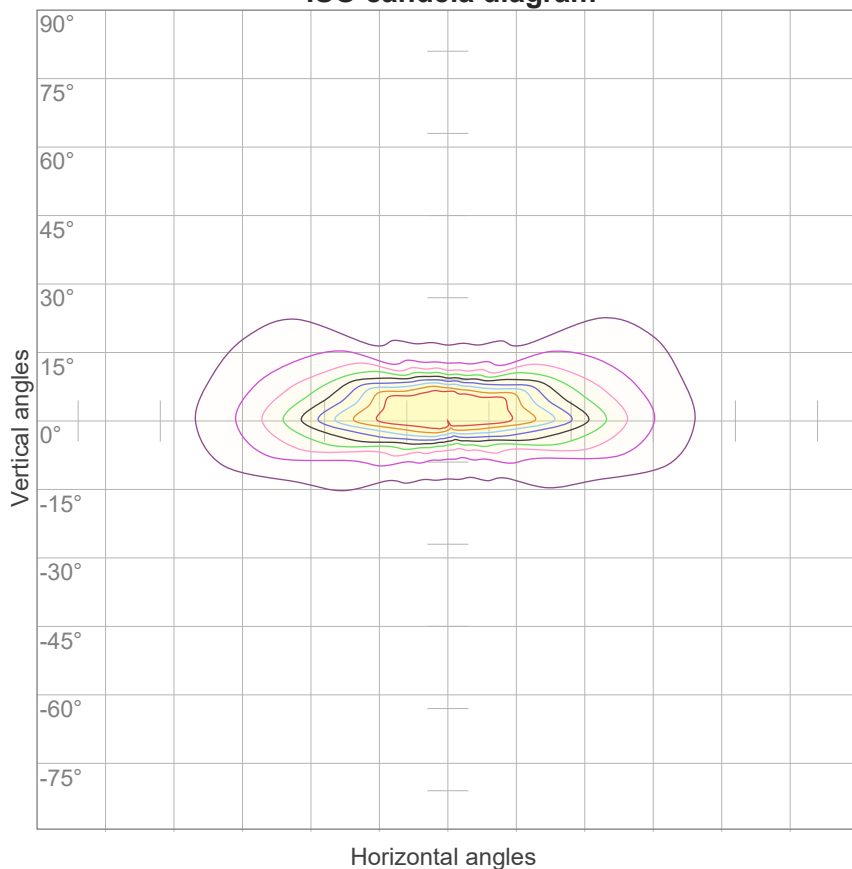
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2177	1791	1317	846	556	394	292	222	173	137	114	100	93	91	89	88	86	81	77	74
100%	82%	60%	39%	26%	18%	13%	10%	8%	6%	5%	5%	4%	4%	4%	4%	4%	4%	4%	3%

## 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°
2177	2199	2193	2178	2156	2128	2089	2042	1986	1921	1849	1771	1684	1590	1487	1383	1275	1169	1068	968
100%	101%	101%	100%	99%	98%	96%	94%	91%	88%	85%	81%	77%	73%	68%	64%	59%	54%	49%	44%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28,7°	61,2°	122,6°	89,2%	74,5%

### ISO candela diagram



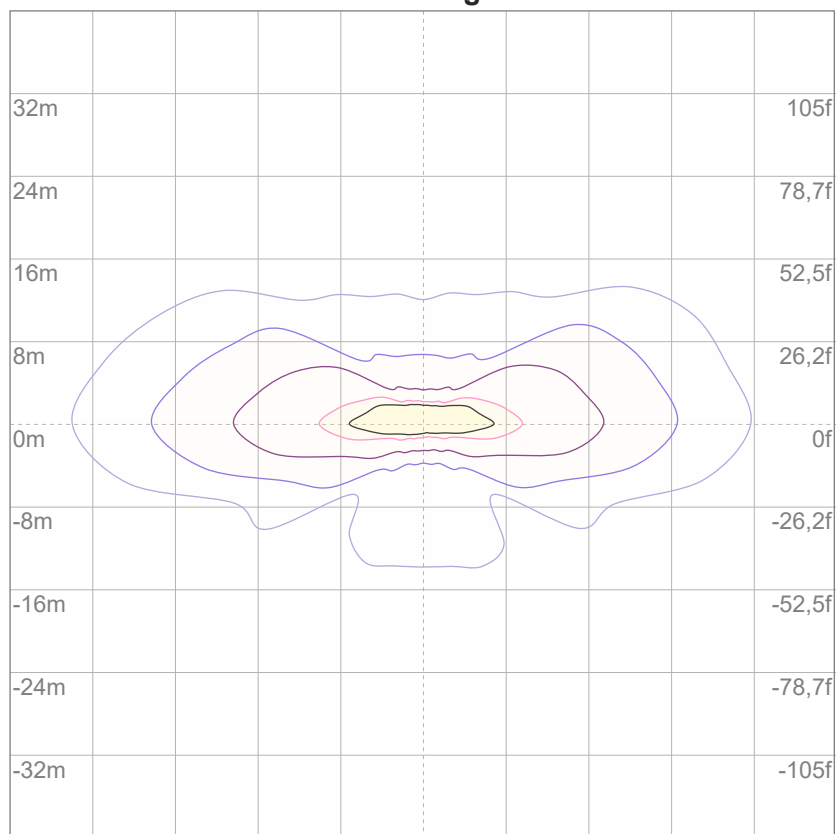
10%	218 cd
20%	435 cd
30%	653 cd
40%	871 cd
50%	1089 cd
60%	1306 cd
70%	1524 cd
80%	1742 cd
90%	1960 cd

#### Conditions:

Number of c-planes: 16

Candela at center: 2177 cd

### ISO lux diagram



3%	0,653 lx
5%	1,09 lx
10%	2,18 lx
30%	6,53 lx
50%	10,9 lx

#### Conditions:

Number of c-planes: 16

Lux at center: 21,8 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 1219 lm total luminous flux										

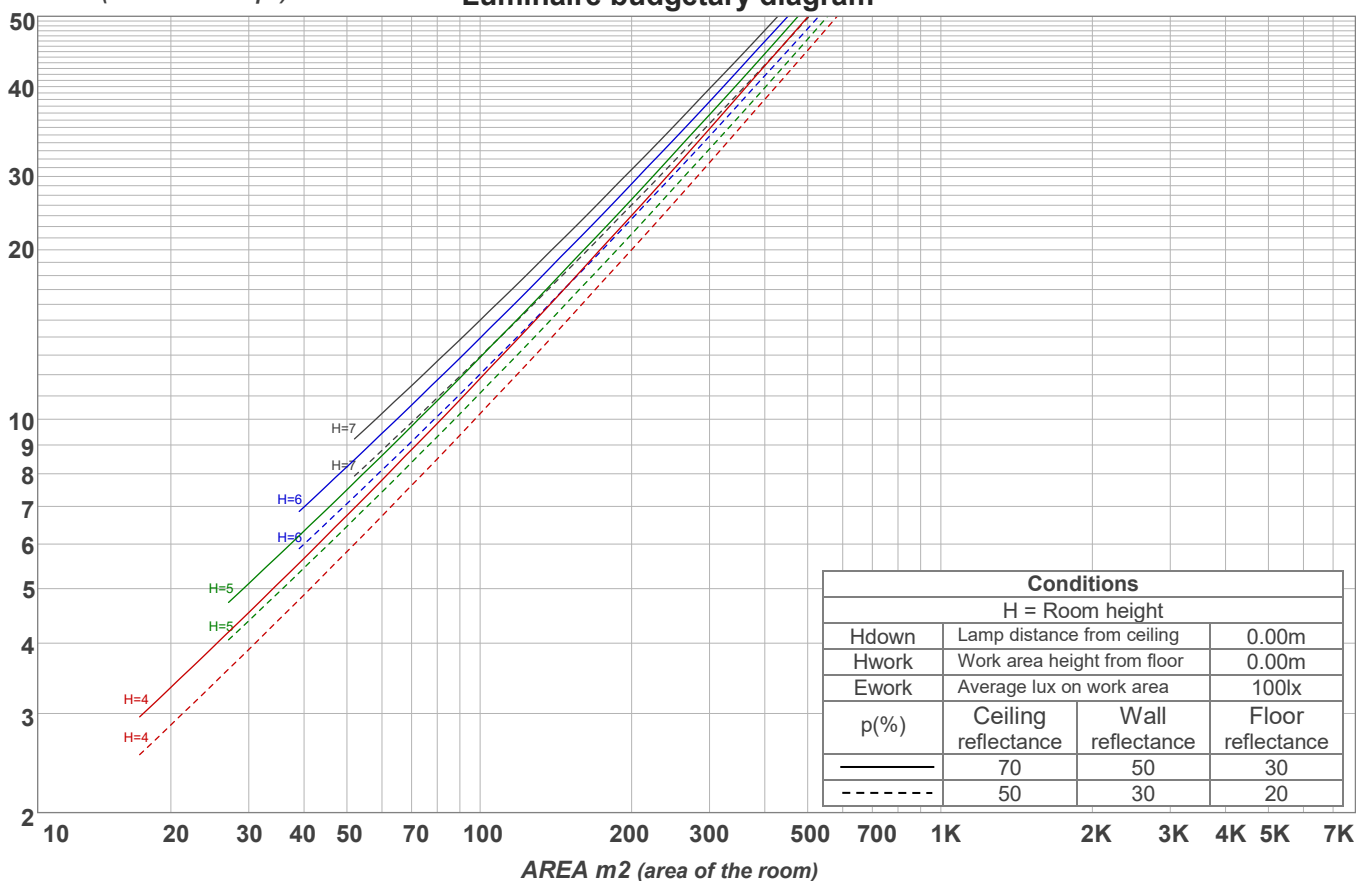
UGR data could not be calculated due to missing/wrong symmetry. Go to Edit -> Photometric -> Corrections and select Correct asymmetry (UGR not defined for asymmetrical distributions)..

## 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	93	92	90	88
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	80	76	73	71
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65
5	86	75	68	63	84	74	68	63	72	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	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51
8	72	61	55	50	71	61	54	50	60	54	49	59	53	49	57	53	49	47
9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	54	50	46	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42

LAMPS (number of lamps)

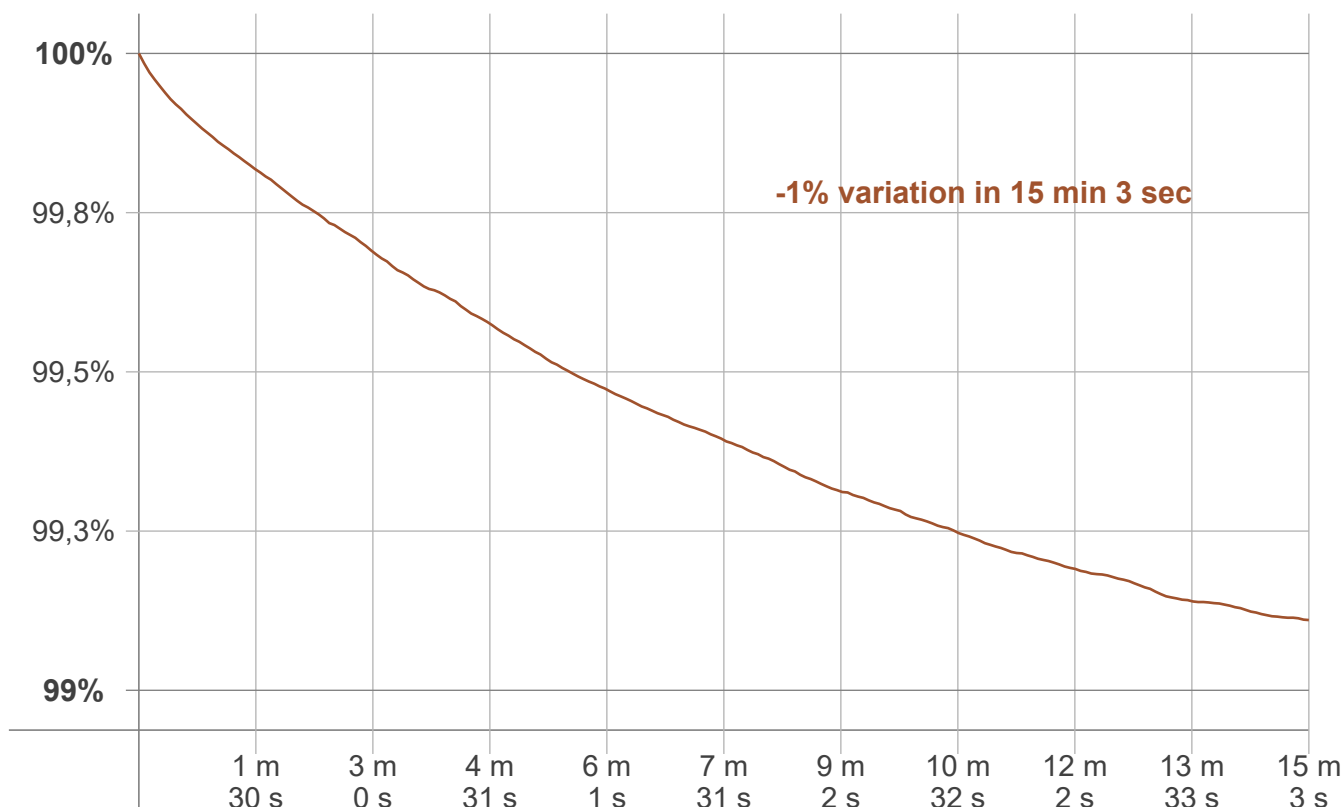
## Luminaire budgetary diagram



## Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
164 lm	253 lm	223 lm	188 lm	152 lm	108 lm	64,1 lm	39,0 lm	28,2 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,075 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	-1,0%

## Warmup conditions

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

## Color temperature change

CCT start	CCT change	CCT end
2770 K	+1 K	2771 K

## Output change

Output start	Output change	Output end
1231 lm	-11 lm	1219 lm