Light efficiency:

104 Lumen/Watt

Light quality:

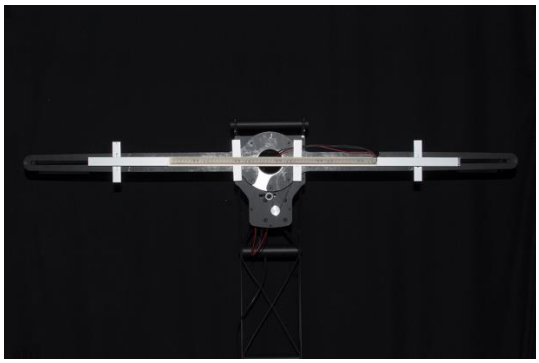
CRI: 81,9

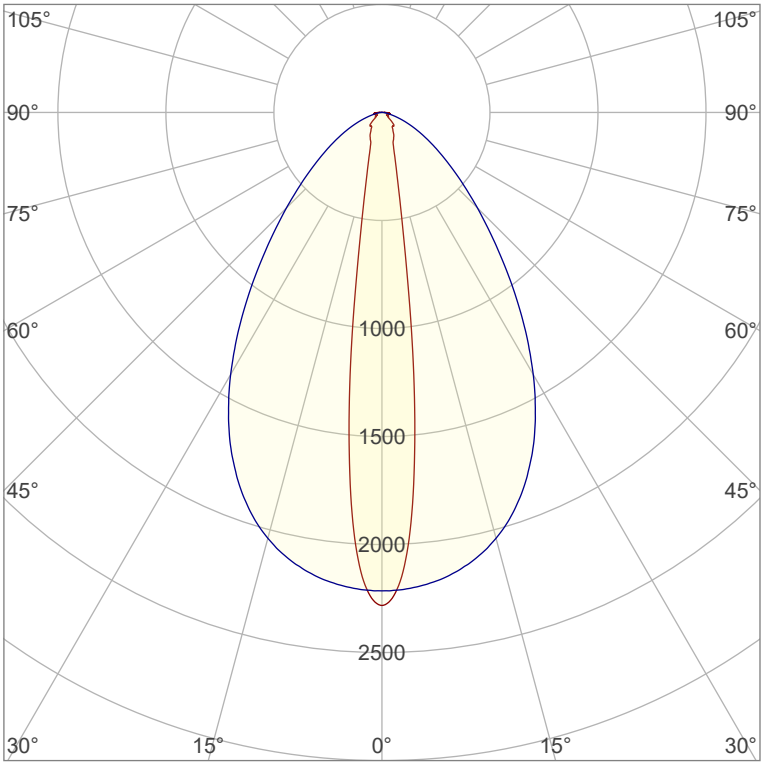
Color temperature:

2700 K

Output: 1194 lm
Peak: 2281 cd

Power: 11,5 W
PF: 1,0





CIE 1931
x: 0,460
y: 0,411

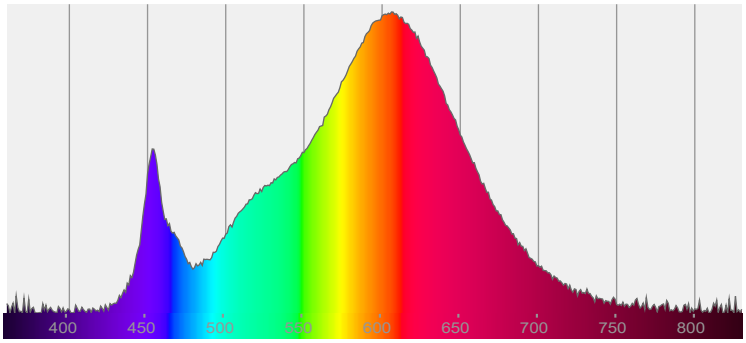
Product name:
Nova-6_510mm_827_Inlay-Lens-15°

Item number:
NP/L1C/06F/0510/827/IL1F

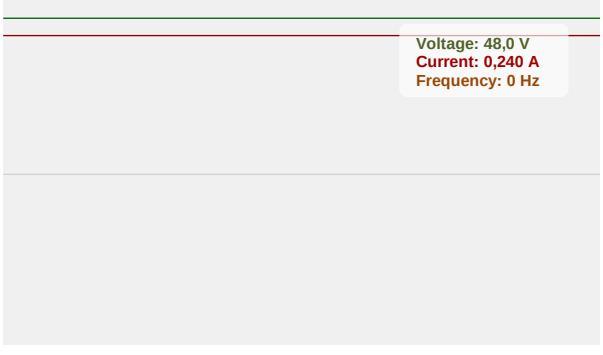
Date and time:
21.07.2025 15:21:39

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

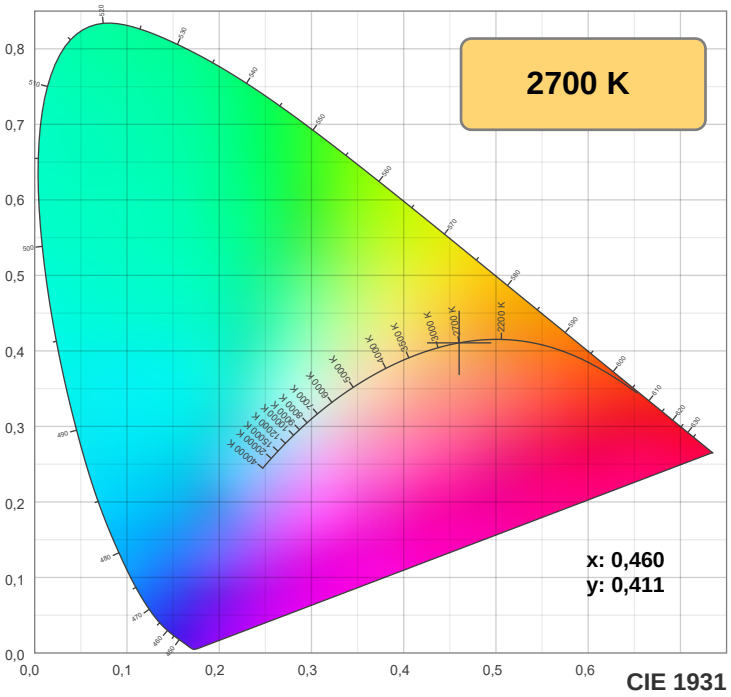
Spectra



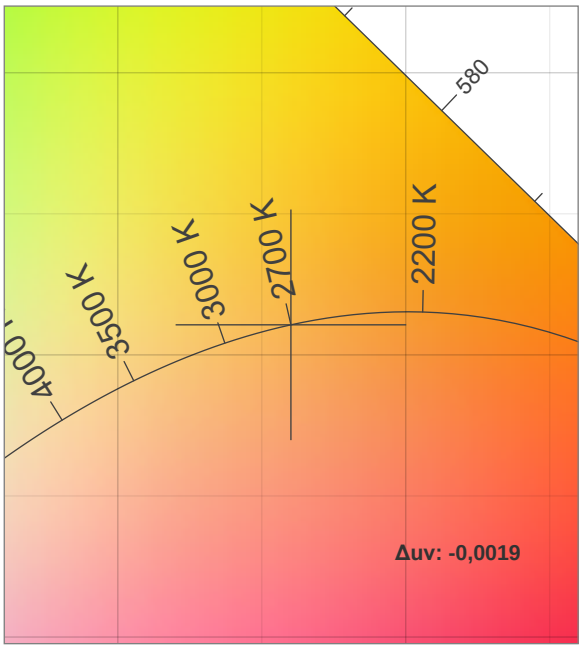
Power



Color details

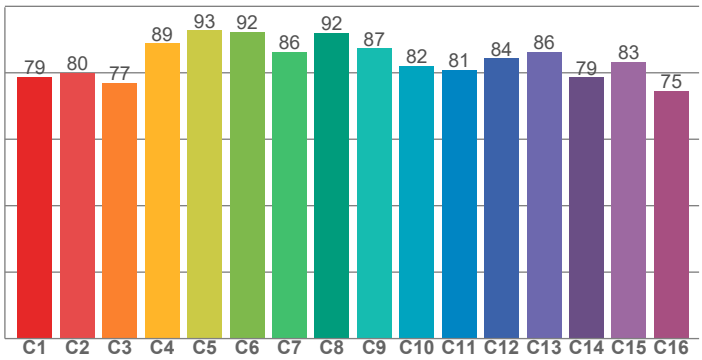


CIE 1931

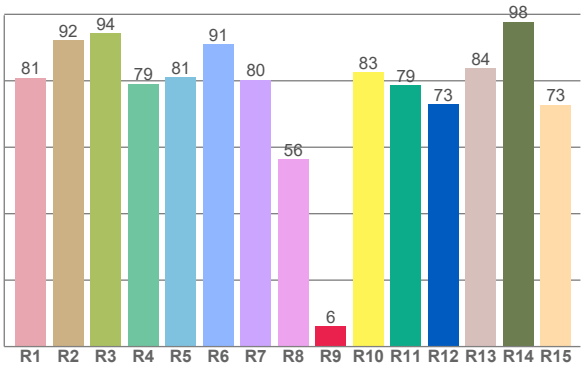


CIE 1931 ZOOM

TM30: 83,9



CRI: 81,9 (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
80,9	92,2	94,4	79,1	81,1	91,0	80,3	56,4	6,2	82,5	78,6	72,9	83,8	97,8	72,8

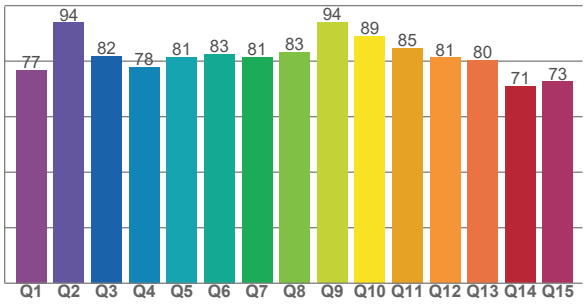
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
78,8	80,0	76,9	88,9	92,8	92,3	86,3	92,0	87,4	82,1	80,9	84,3	86,3	78,6	83,3	74,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76,8	93,8	81,9	77,9	81,4	82,5	81,4	83,2	94,0	89,1	84,8	81,2	80,4	70,9	72,6

CQS: 80,9



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
2700 K	81,9	6,2	83,9	95,8	80,9	0,460	0,411	0,263	0,352	-0,0019

TM30 details

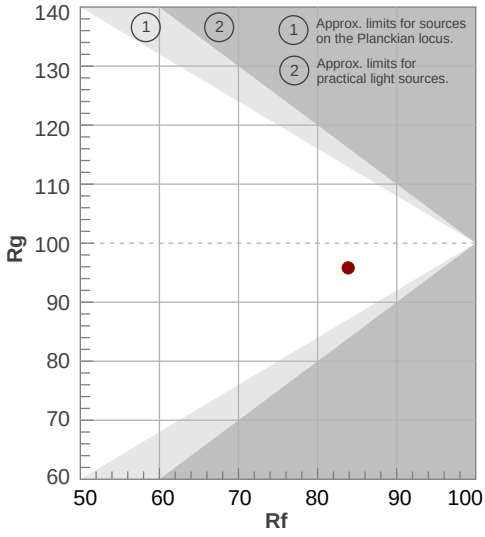
Rf 83,9

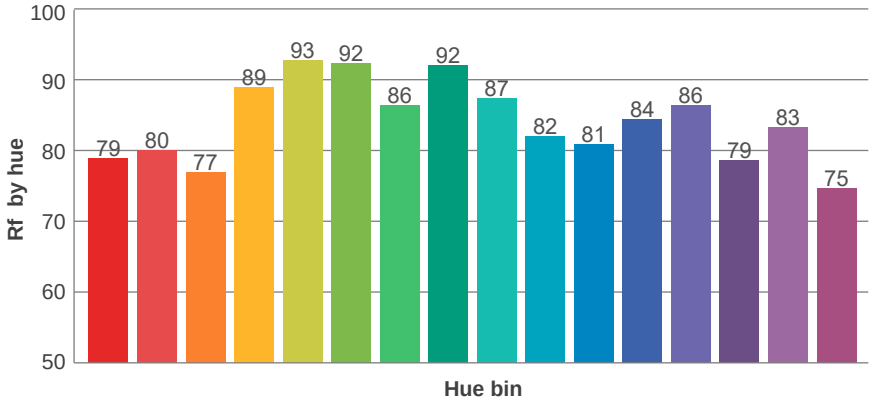
Fidelity index Rf

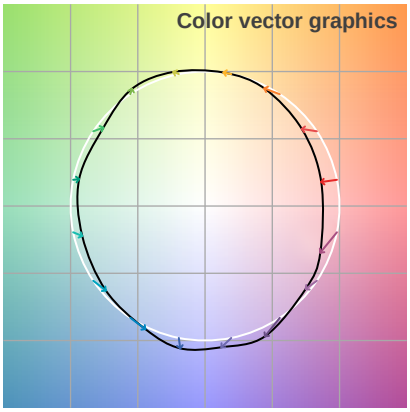
Rg 95,8

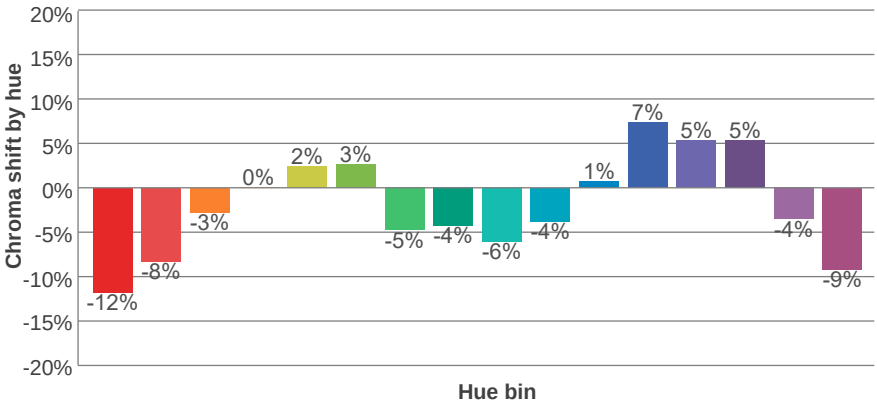
Gammut index Rg

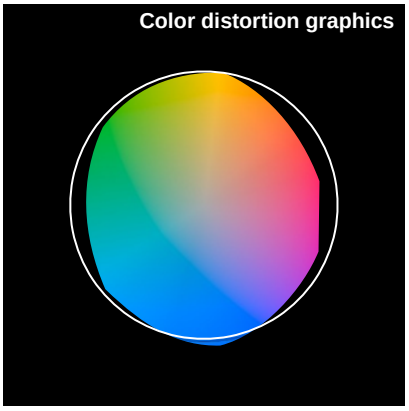
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	79	-12%	1%
2	80	-8%	8%
3	77	-3%	12%
4	89	0%	6%
5	93	2%	4%
6	92	3%	-3%
7	86	-5%	-6%
8	92	-4%	-1%
9	87	-6%	4%
10	82	-4%	11%
11	81	1%	14%
12	84	7%	3%
13	86	5%	-9%
14	79	5%	-17%
15	83	-4%	-10%
16	75	-9%	-17%

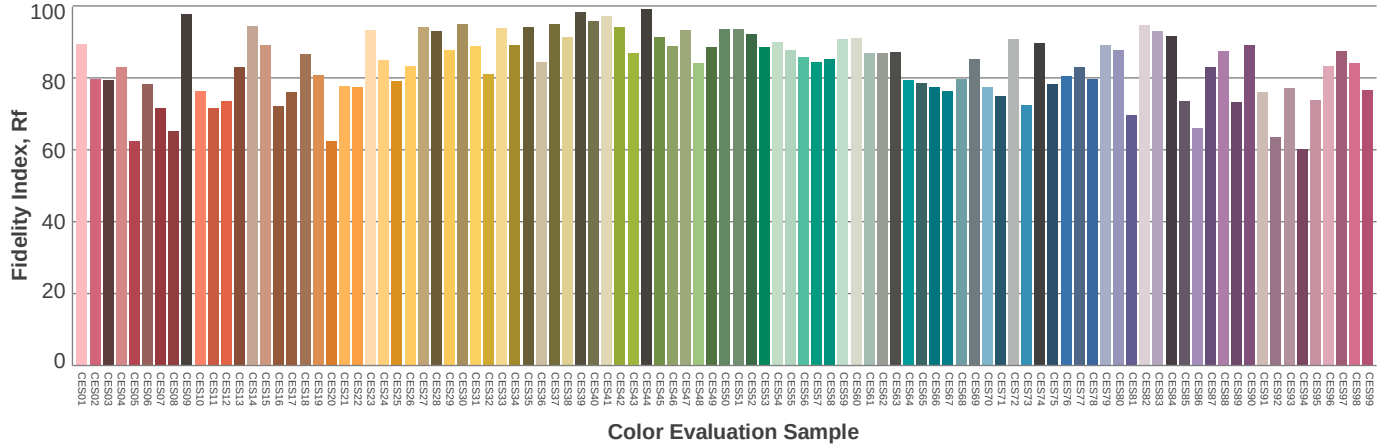




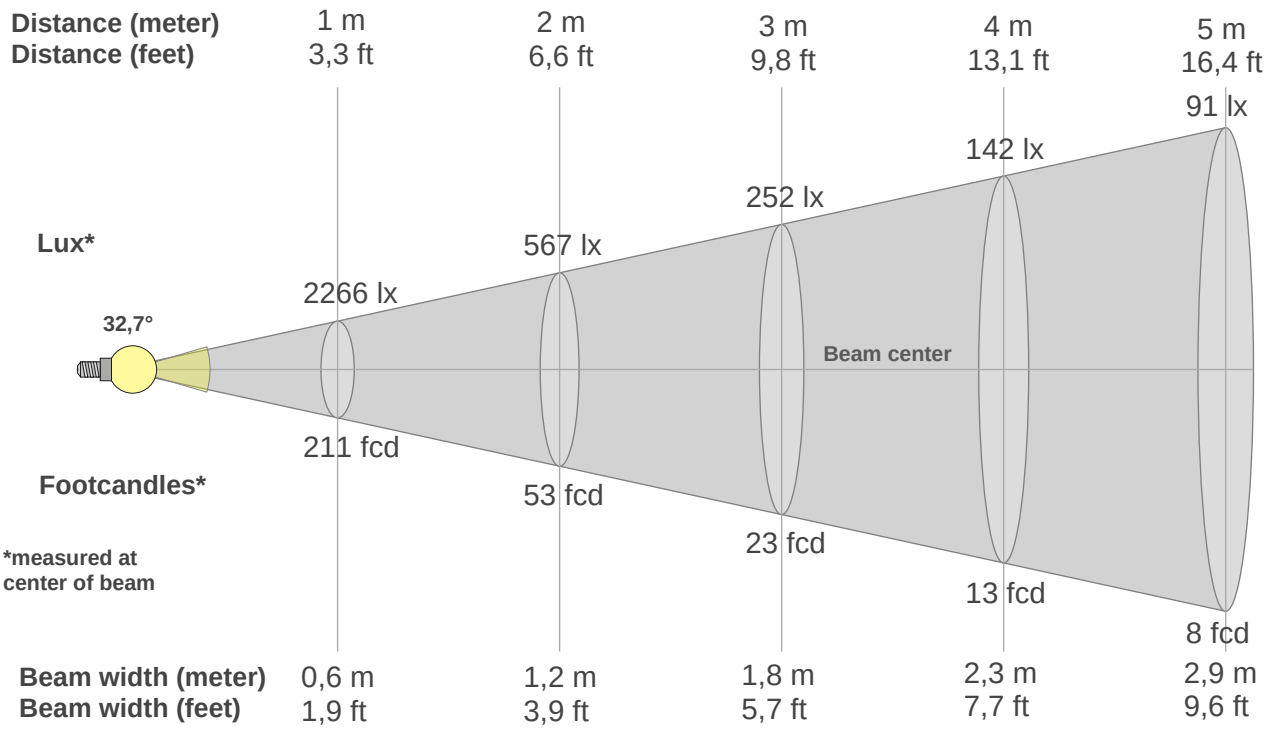








Beam details



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
2266lx	567lx	252lx	142lx	91lx	63lx	46lx	35lx	28lx	23lx	19lx	16lx	13lx	12lx	10lx	9lx	8lx	7lx	6lx	6lx
210,5fc	52,6fcd	23,4fcd	13,2fcd	8,4fcd	5,8fcd	4,3fcd	3,3fcd	2,6fcd	2,1fcd	1,7fcd	1,5fcd	1,2fcd	1,1fcd	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°
2266	2192	1912	1457	948	574	382	280	219	177	152	140	133	125	116	105	96	87	81	81
100%	97%	84%	64%	42%	25%	17%	12%	10%	8%	7%	6%	6%	6%	5%	5%	4%	4%	4%	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°
2266	2212	2203	2189	2169	2141	2107	2064	2014	1953	1883	1802	1715	1616	1511	1401	1284	1169	1055	945
100%	98%	97%	97%	96%	94%	93%	91%	89%	86%	83%	80%	76%	71%	67%	62%	57%	52%	47%	42%

Intensities in 180° c-plane

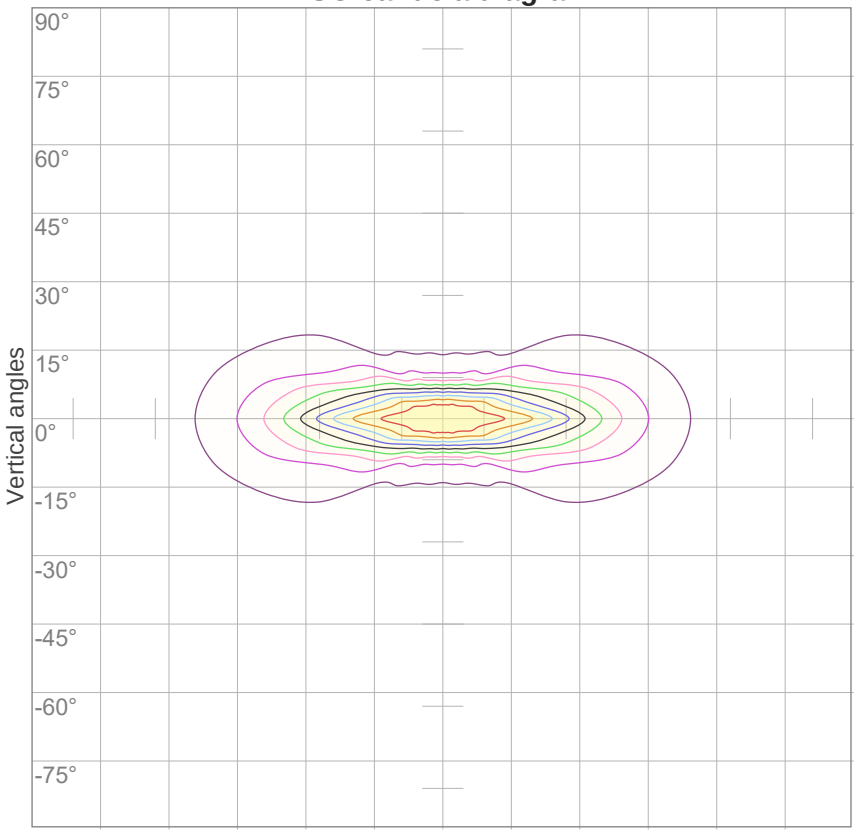
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2266	2192	1912	1457	948	574	382	280	219	177	152	140	133	125	116	105	96	87	81	81
100%	97%	84%	64%	42%	25%	17%	12%	10%	8%	7%	6%	6%	6%	5%	5%	4%	4%	4%	4%

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°
2266	2212	2203	2189	2169	2141	2107	2064	2014	1953	1883	1802	1715	1616	1511	1401	1284	1169	1055	945
100%	98%	97%	97%	96%	94%	93%	91%	89%	86%	83%	80%	76%	71%	67%	62%	57%	52%	47%	42%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32,7°	**71,6°**	**126,5°**	**87,5%**	**73,1%**

ISO candela diagram



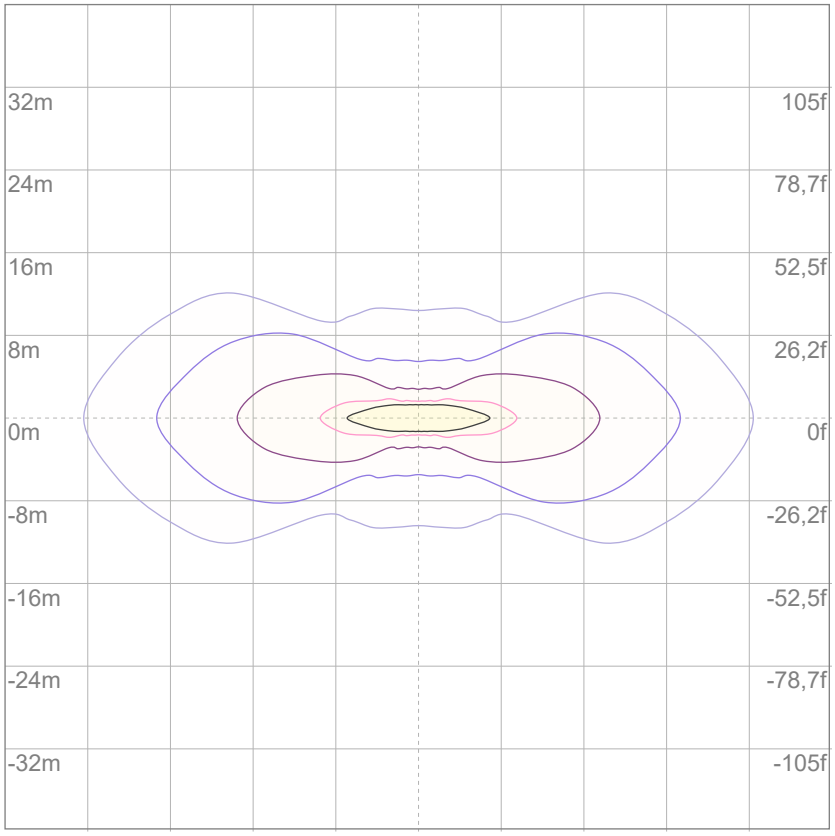
10%	227 cd
20%	453 cd
30%	680 cd
40%	907 cd
50%	1133 cd
60%	1360 cd
70%	1586 cd
80%	1813 cd
90%	2040 cd

Conditions:

Number of c-planes: 16

Candela at center: 2266 cd

ISO lux diagram



Mounting height: 10 meters (33 feet)

3%	0,680 lx
5%	1,13 lx
10%	2,27 lx
30%	6,80 lx
50%	11,3 lx

Conditions:

Number of c-planes: 16

Lux at center: 22,7 lx

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

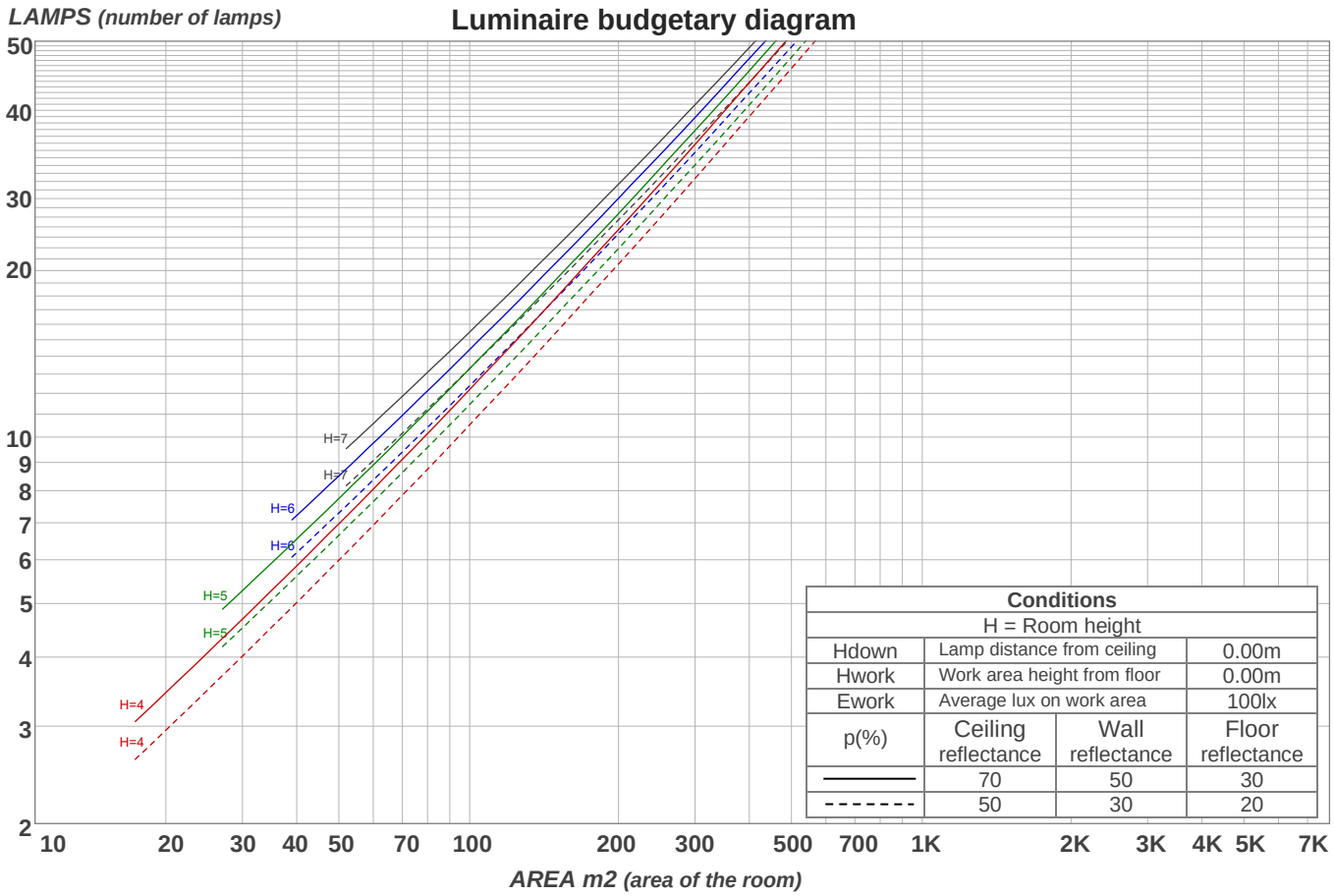
Glare Evaluation According to UGR

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	12,9	13,8	13,1	14,0	14,2	24,8	25,7	25,0	26,0	26,2
	3H	14,0	15,0	14,4	15,3	15,5	25,5	26,5	25,9	26,7	26,9
	4H	15,2	16,1	15,6	16,4	16,6	25,7	26,7	26,1	26,9	27,2
	6H	16,6	17,5	16,9	17,7	18,1	25,9	26,7	26,2	27,0	27,4
	8H	17,4	18,1	17,7	18,5	18,9	25,9	26,7	26,2	27,0	27,4
	12H	18,0	18,8	18,4	19,1	19,6	25,9	26,6	26,2	27,0	27,4
4H	2H	14,7	15,6	15,1	15,9	16,1	24,5	25,5	24,9	25,7	26,0
	3H	16,0	16,7	16,3	17,1	17,5	25,5	26,2	25,8	26,6	27,0
	4H	16,9	17,7	17,4	18,1	18,6	25,7	26,4	26,1	26,8	27,4
	6H	18,4	19,1	18,9	19,4	19,8	25,9	26,6	26,4	26,9	27,3
	8H	19,1	19,8	19,6	20,1	20,5	25,9	26,6	26,4	26,9	27,3
	12H	19,8	20,4	20,3	20,8	21,3	25,9	26,5	26,4	26,9	27,3
8H	4H	17,7	18,3	18,2	18,7	19,0	25,6	26,3	26,1	26,6	27,0
	6H	19,3	19,8	19,8	20,2	20,8	25,9	26,4	26,4	26,8	27,4
	8H	20,3	20,7	20,8	21,2	21,8	26,0	26,4	26,5	26,9	27,6
	12H	21,2	21,5	21,7	22,0	22,6	26,1	26,4	26,7	26,9	27,5
12H	4H	17,8	18,3	18,3	18,7	19,2	25,6	26,1	26,1	26,5	27,0
	6H	19,6	20,0	20,1	20,5	21,1	25,9	26,3	26,4	26,8	27,5
	8H	20,5	20,9	21,1	21,4	22,0	26,0	26,4	26,6	26,9	27,5
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,2					1,1 / -1,0				
S = 1.5H		0,3 / -0,2					2,4 / -2,1				
S = 2.0H		0,5 / -0,4					3,7 / -3,4				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1194 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	110	110	110	105	105	105	100	100	100	98
1	111	107	103	100	108	104	101	99	100	97	95	96	94	92	92	90	89	87
2	103	97	91	87	101	95	90	86	91	87	84	88	84	82	85	82	80	78
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	78	75	72	70
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	65	63
5	85	75	68	63	83	74	67	62	72	66	61	70	65	61	68	63	60	58
6	80	70	62	57	79	69	62	57	67	61	57	65	60	56	64	59	55	54
7	76	65	58	53	74	64	58	53	63	57	52	61	56	52	60	55	52	50
8	72	61	54	49	71	60	54	49	59	53	49	58	52	49	57	52	48	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	46	54	49	45	44
10	65	54	48	44	64	54	48	43	53	47	43	52	47	43	51	46	43	41

Luminaire budgetary diagram

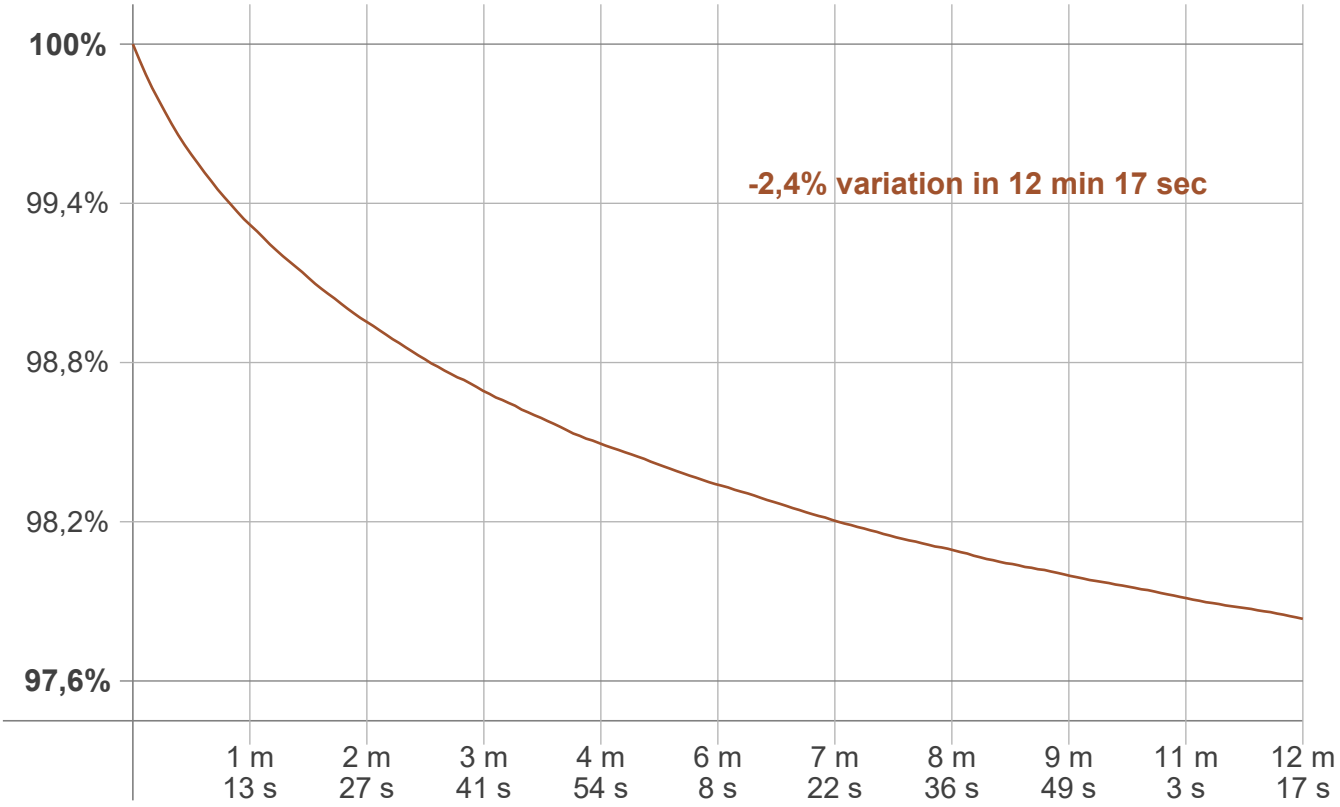


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
164 lm	235 lm	213 lm	184 lm	147 lm	102 lm	65,2 lm	38,9 lm	24,2 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
6,10 lm	3,85 lm	1,58 lm	1,43 lm	1,11 lm	0,814 lm	0,600 lm	0,368 lm	5,57 lm

Warmup curve



Warmup result

Warmup time:	**Not completed**
Warmup variation	**-2,4%**

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2693 K	**+7 K**	**2700 K**

Output change

Output start	Output change	Output end
1221 lm	**-27 lm**	**1194 lm**