Light efficiency:

105 Lumen/Watt

Light quality:

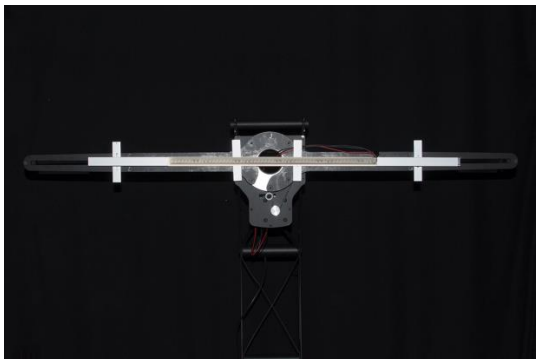
CRI: 82,0

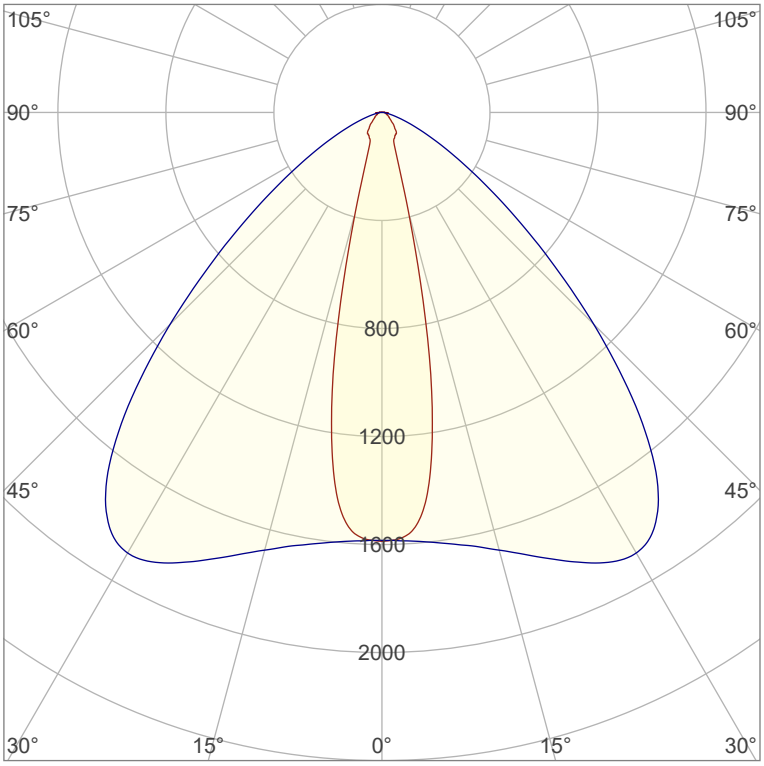
Color temperature:

2700 K

Output: 1213 lm
Peak: 1884 cd

Power: 11,5 W
PF: 1,0





Product name:
Nova-6_510mm_827_Inlay-Lens-30°

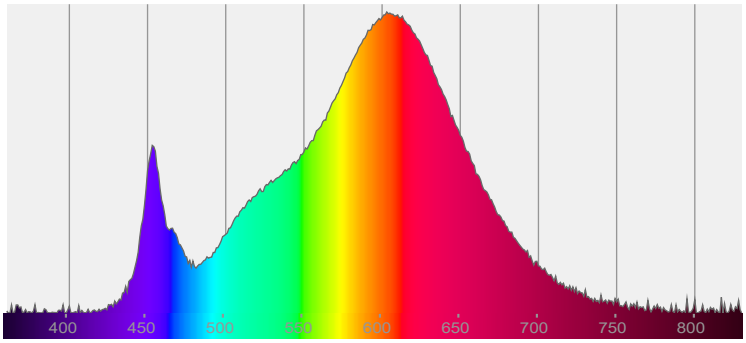
Item number:
NP/L1C/06F/0510/827/IL3F

Date and time:
21.07.2025 14:35:20

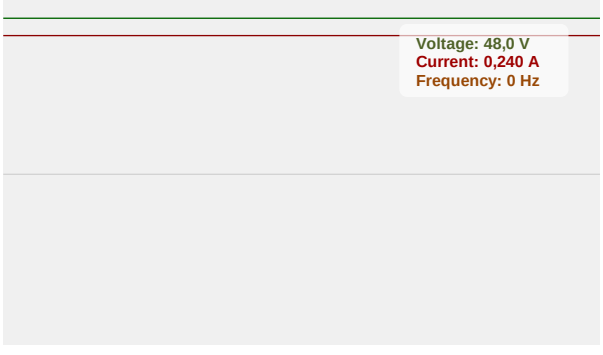
Description:
Tolerances:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 Kelvin
CRI +/-0,7
Angular Resolution: 1 Degree Step
Last Calibration 13.10.2023
Tester: Peter Ulrich
Test Site: Lichtlabor
Gaustrasse 13
55411 Bingen am Rhein

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

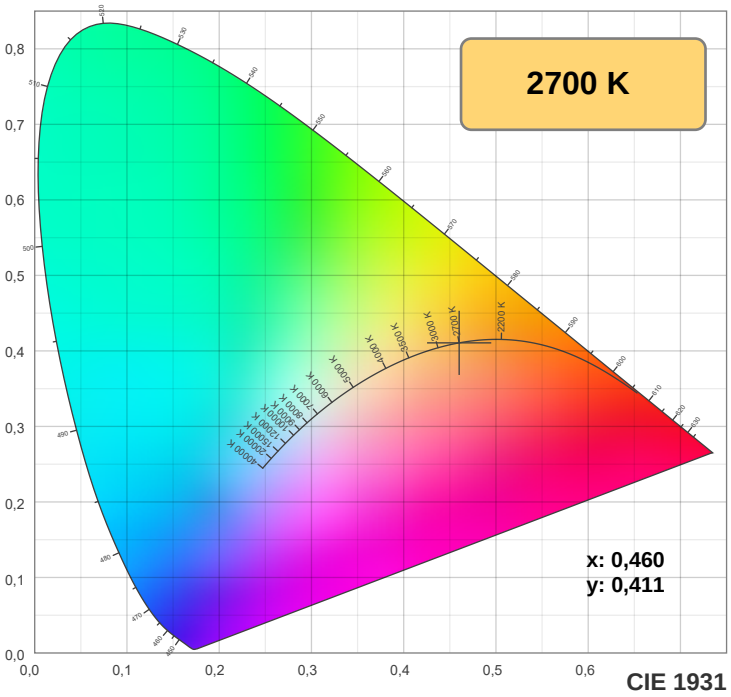
Spectra



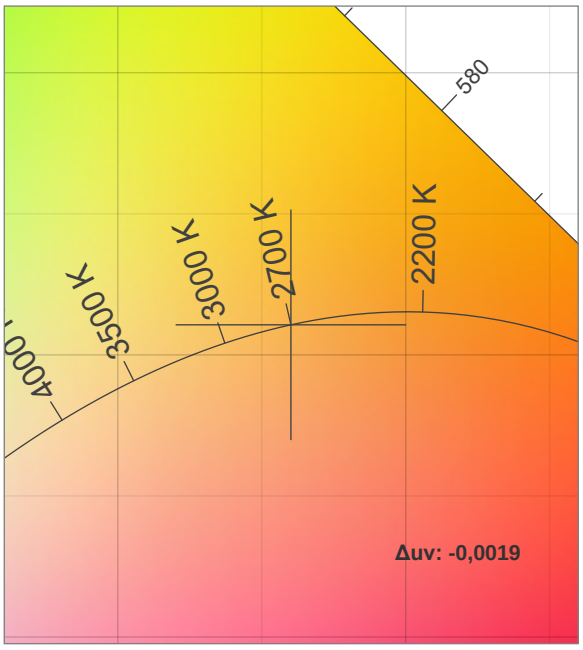
Power



Color details

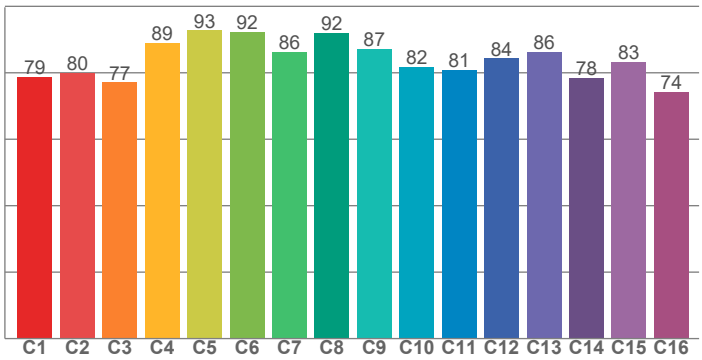


CIE 1931

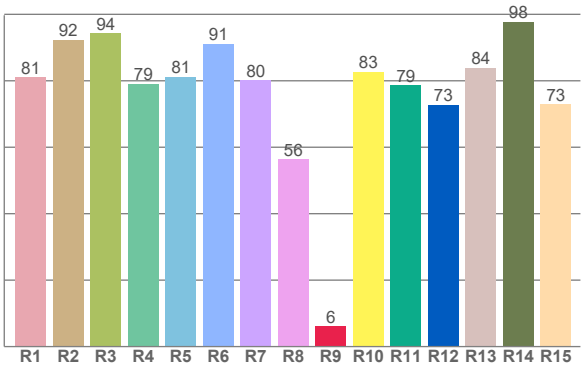


CIE 1931 ZOOM

TM30: 83,8



CRI: 82,0 (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
81,0	92,4	94,3	79,2	81,2	91,1	80,2	56,4	6,1	82,8	78,7	72,8	83,9	97,8	72,9

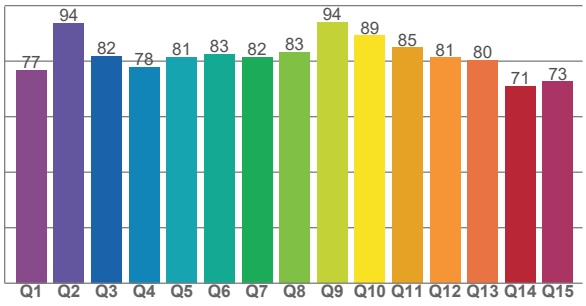
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
78,8	80,0	77,1	89,0	92,8	92,4	86,4	92,0	87,2	81,8	80,8	84,3	86,2	78,4	83,3	74,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76,8	93,8	81,9	77,8	81,4	82,6	81,5	83,3	94,0	89,2	84,9	81,3	80,4	70,9	72,7

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	82,0	6,1	83,8	95,7	80,9	0,460	0,411	0,263	0,352	-0,0019

TM30 details

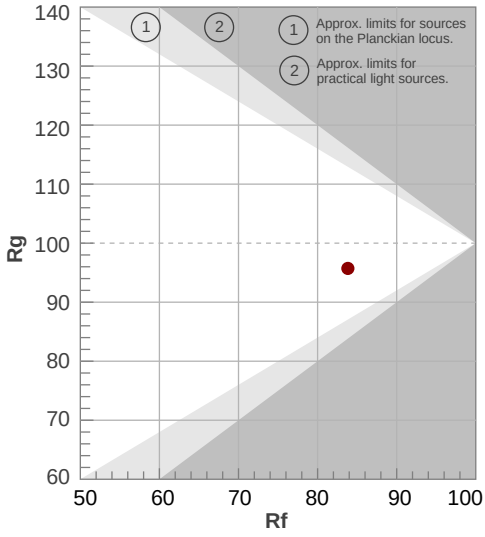
Rf 83,8

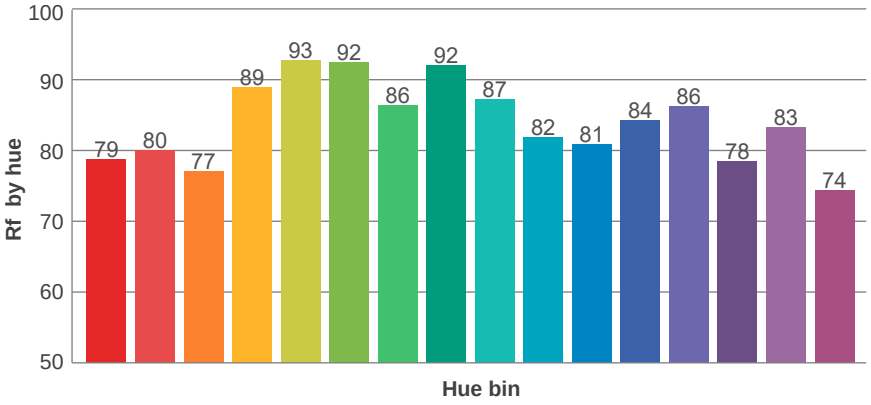
Fidelity index Rf

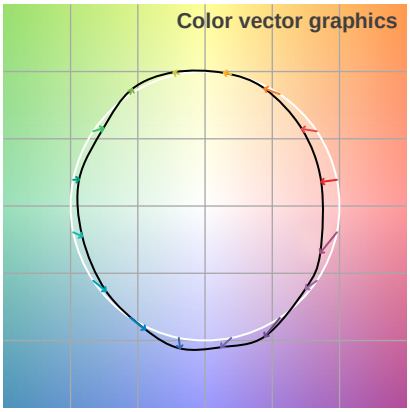
Rg 95,7

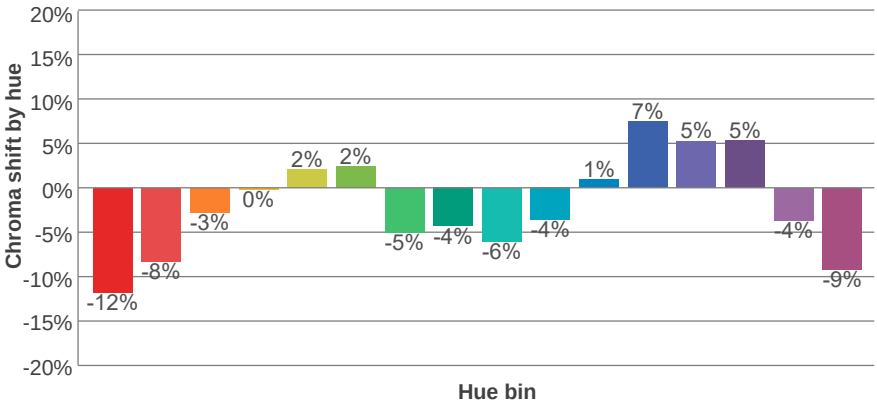
Gammut index Rg

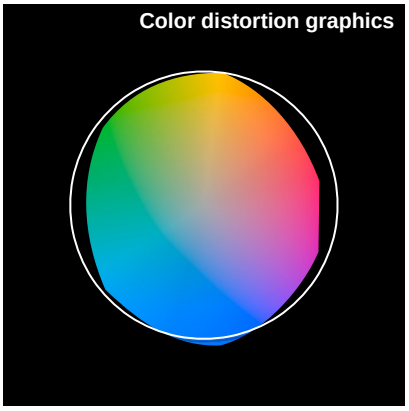
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	79	-12%	1%
2	80	-8%	8%
3	77	-3%	12%
4	89	0%	6%
5	93	2%	4%
6	92	2%	-3%
7	86	-5%	-6%
8	92	-4%	-1%
9	87	-6%	4%
10	82	-4%	11%
11	81	1%	14%
12	84	7%	2%
13	86	5%	-9%
14	78	5%	-17%
15	83	-4%	-10%
16	74	-9%	-17%

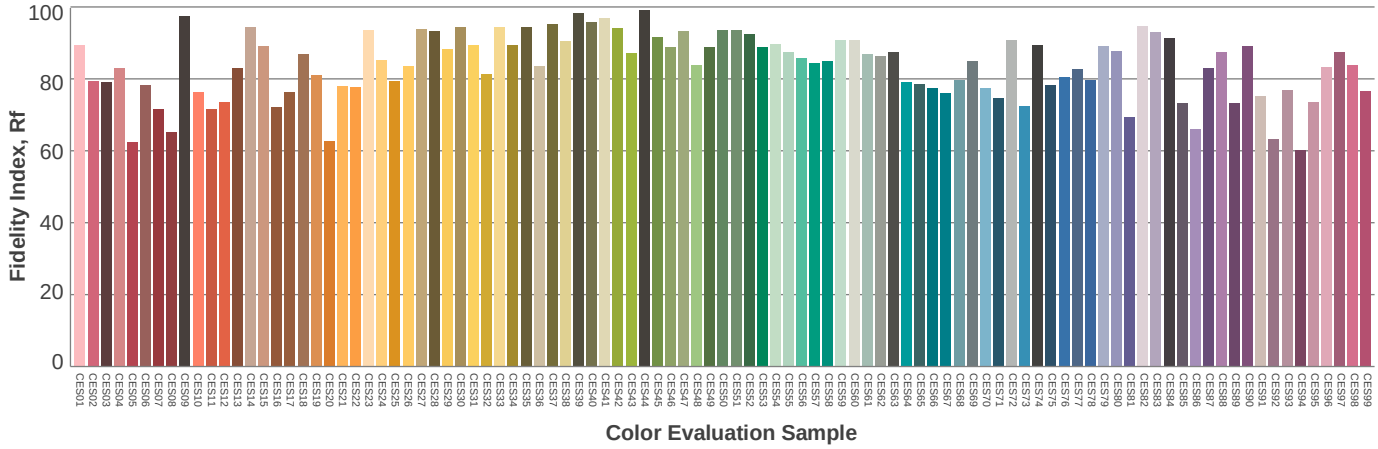




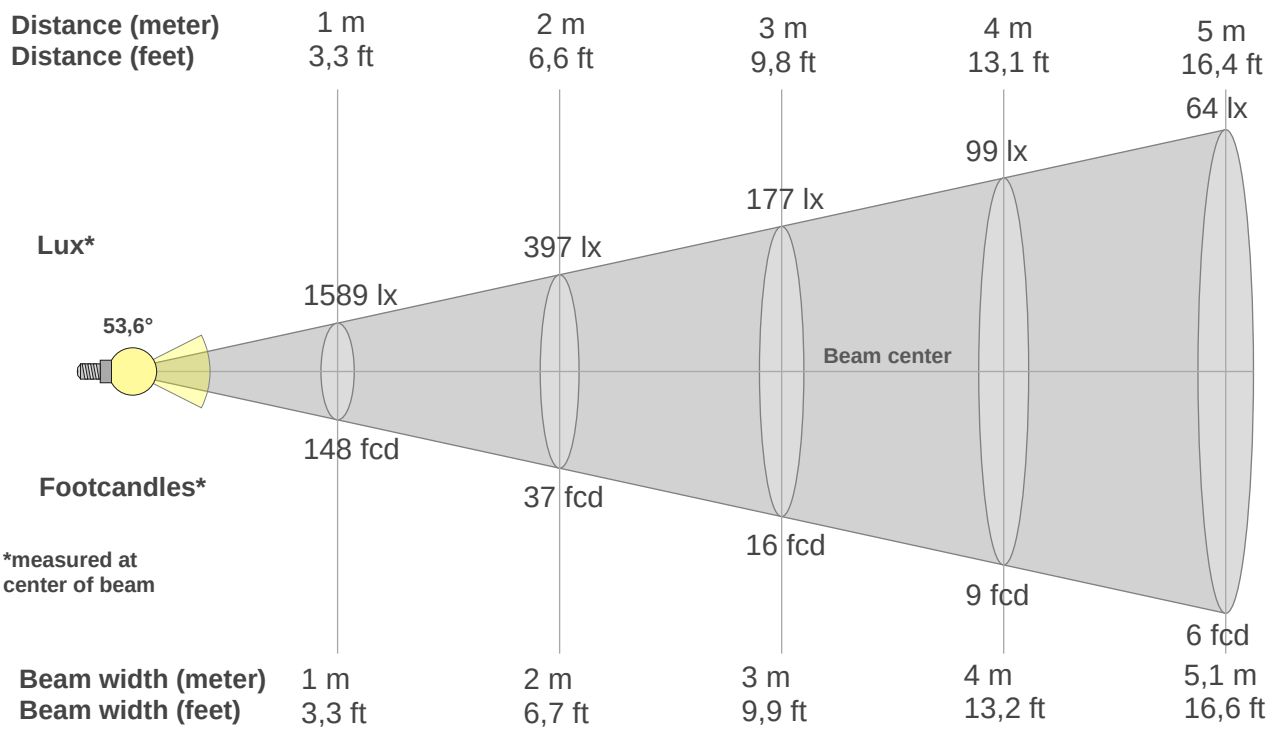








Beam details



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
1589lx	397lx	177lx	99lx	64lx	44lx	32lx	25lx	20lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx
147,6fc	36,9fcd	16,4fcd	9,2fcd	5,9fcd	4,1fcd	3fcd	2,3fcd	1,8fcd	1,5fcd	1,2fcd	1fcd	0,9fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd	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°
1589	1582	1556	1474	1307	1063	763	484	294	192	142	118	109	106	101	98	95	96	91	81
100%	100%	98%	93%	82%	67%	48%	30%	18%	12%	9%	7%	7%	7%	6%	6%	6%	6%	6%	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°
1589	1587	1591	1599	1611	1625	1642	1666	1691	1722	1755	1790	1824	1855	1878	1883	1865	1816	1740	1632
100%	100%	100%	101%	101%	102%	103%	105%	106%	108%	110%	113%	115%	117%	118%	119%	117%	114%	110%	103%

Intensities in 180° c-plane

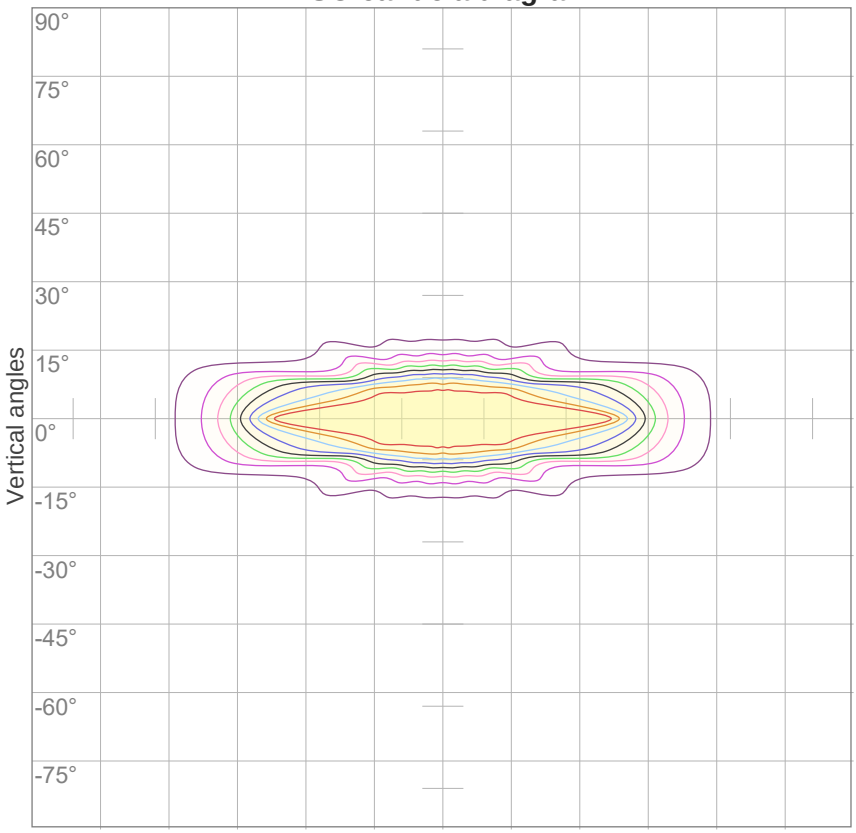
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1589	1582	1556	1474	1307	1063	763	484	294	192	142	118	109	106	101	98	95	96	91	81
100%	100%	98%	93%	82%	67%	48%	30%	18%	12%	9%	7%	7%	7%	6%	6%	6%	6%	6%	5%

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°
1589	1587	1591	1599	1611	1625	1642	1666	1691	1722	1755	1790	1824	1855	1878	1883	1865	1816	1740	1632
100%	100%	100%	101%	101%	102%	103%	105%	106%	108%	110%	113%	115%	117%	118%	119%	117%	114%	110%	103%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53,6°	**78,9°**	**134,2°**	**90,4%**	**76,7%**

ISO candela diagram



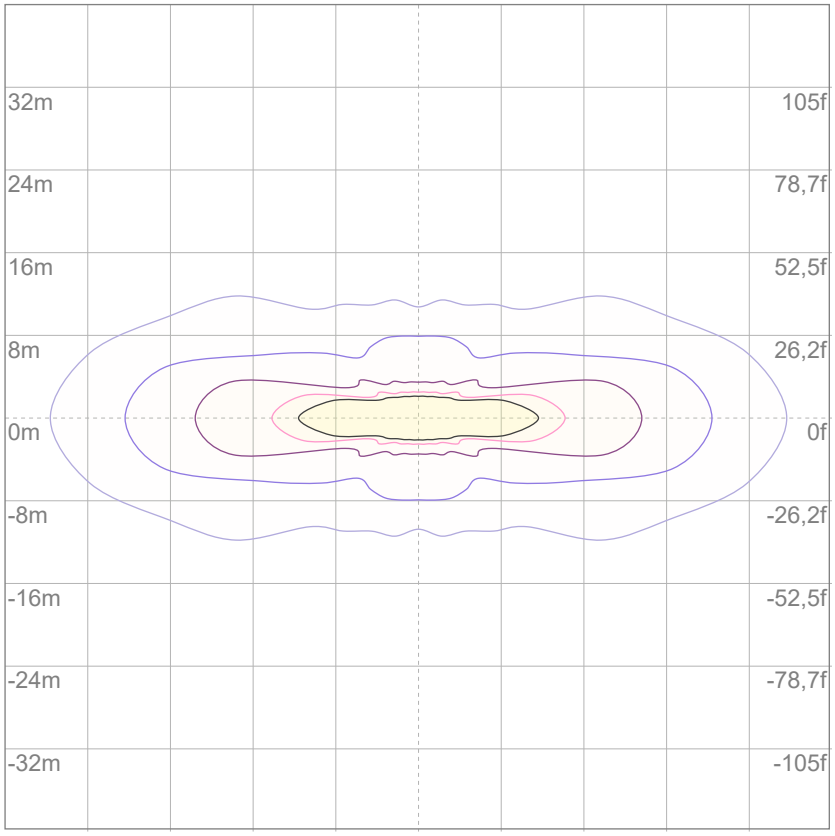
10%	159 cd
20%	318 cd
30%	477 cd
40%	636 cd
50%	795 cd
60%	953 cd
70%	1112 cd
80%	1271 cd
90%	1430 cd

Conditions:

Number of c-planes: 16

Candela at center: 1589 cd

ISO lux diagram



Mounting height: 10 meters (33 feet)

3%	0,477 lx
5%	0,795 lx
10%	1,59 lx
30%	4,77 lx
50%	7,95 lx

Conditions:

Number of c-planes: 16

Lux at center: 15,9 lx

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

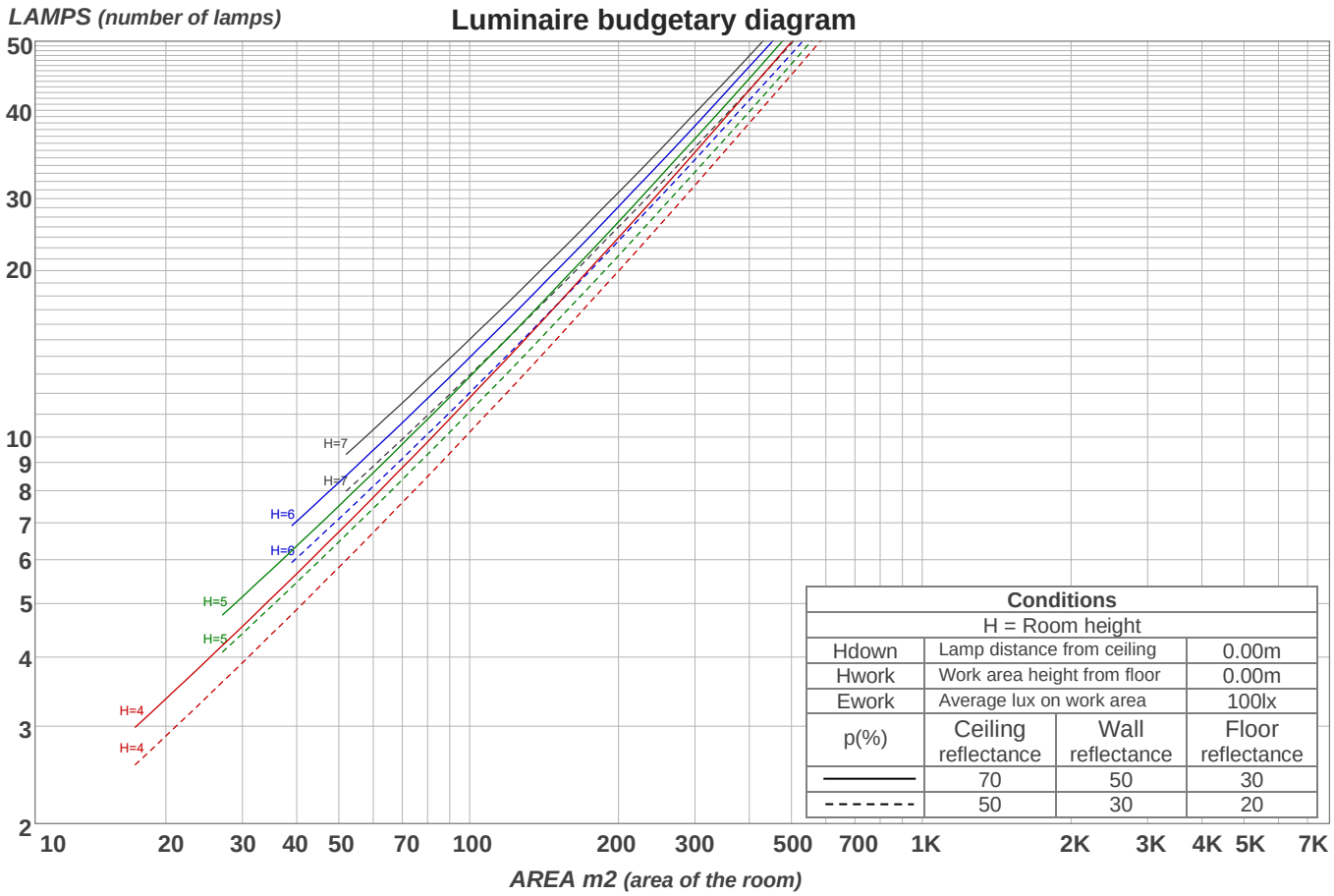
Glare Evaluation According to UGR

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	11,7	12,5	11,8	12,8	13,0	26,0	26,9	26,2	27,1	27,3
	3H	12,4	13,4	12,8	13,6	13,8	26,3	27,2	26,7	27,5	27,7
	4H	13,0	14,0	13,4	14,2	14,4	26,4	27,3	26,8	27,5	27,8
	6H	14,1	14,9	14,4	15,1	15,5	26,5	27,3	26,8	27,5	27,9
	8H	14,7	15,5	15,0	15,8	16,2	26,5	27,2	26,8	27,5	27,9
	12H	15,4	16,1	15,7	16,4	16,9	26,4	27,2	26,8	27,5	27,9
4H	2H	12,9	13,8	13,3	14,1	14,3	25,7	26,6	26,1	26,9	27,1
	3H	13,9	14,7	14,3	15,0	15,4	26,2	26,9	26,5	27,3	27,7
	4H	14,5	15,2	15,0	15,6	16,2	26,2	26,9	26,7	27,3	27,9
	6H	15,6	16,3	16,1	16,6	17,0	26,3	27,0	26,8	27,3	27,7
	8H	16,3	16,9	16,8	17,2	17,6	26,3	26,9	26,8	27,3	27,7
	12H	17,0	17,5	17,5	17,9	18,4	26,3	26,8	26,8	27,2	27,7
8H	4H	15,3	15,9	15,8	16,3	16,6	26,1	26,8	26,6	27,1	27,5
	6H	16,5	17,0	17,0	17,4	18,0	26,3	26,7	26,8	27,2	27,7
	8H	17,4	17,7	17,9	18,3	18,9	26,3	26,7	26,8	27,2	27,9
	12H	18,3	18,6	18,8	19,1	19,7	26,3	26,7	26,9	27,2	27,8
12H	4H	15,4	15,9	15,9	16,3	16,8	26,1	26,6	26,6	27,0	27,5
	6H	16,8	17,2	17,3	17,7	18,3	26,3	26,6	26,8	27,2	27,8
	8H	17,7	18,0	18,3	18,5	19,1	26,3	26,6	26,9	27,1	27,7
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,2					2,3 / -3,0				
S = 1.5H		0,3 / -0,3					4,3 / -4,4				
S = 2.0H		0,4 / -0,5					6,1 / -5,2				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1213 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	101	101	101	99
1	111	108	104	101	108	105	102	100	101	99	96	97	95	93	93	92	90	88
2	104	98	93	88	102	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	89	83	78	95	88	82	78	85	80	76	82	78	75	80	76	73	71
4	91	82	75	70	89	81	75	70	78	73	69	76	72	68	74	70	67	65
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	69	65	61	60
6	81	71	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	52	51
8	73	62	55	50	71	61	54	50	60	54	50	58	53	49	57	53	49	47
9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	54	49	46	44
10	65	55	48	44	64	54	48	44	53	47	44	52	47	43	51	47	43	42

Luminaire budgetary diagram

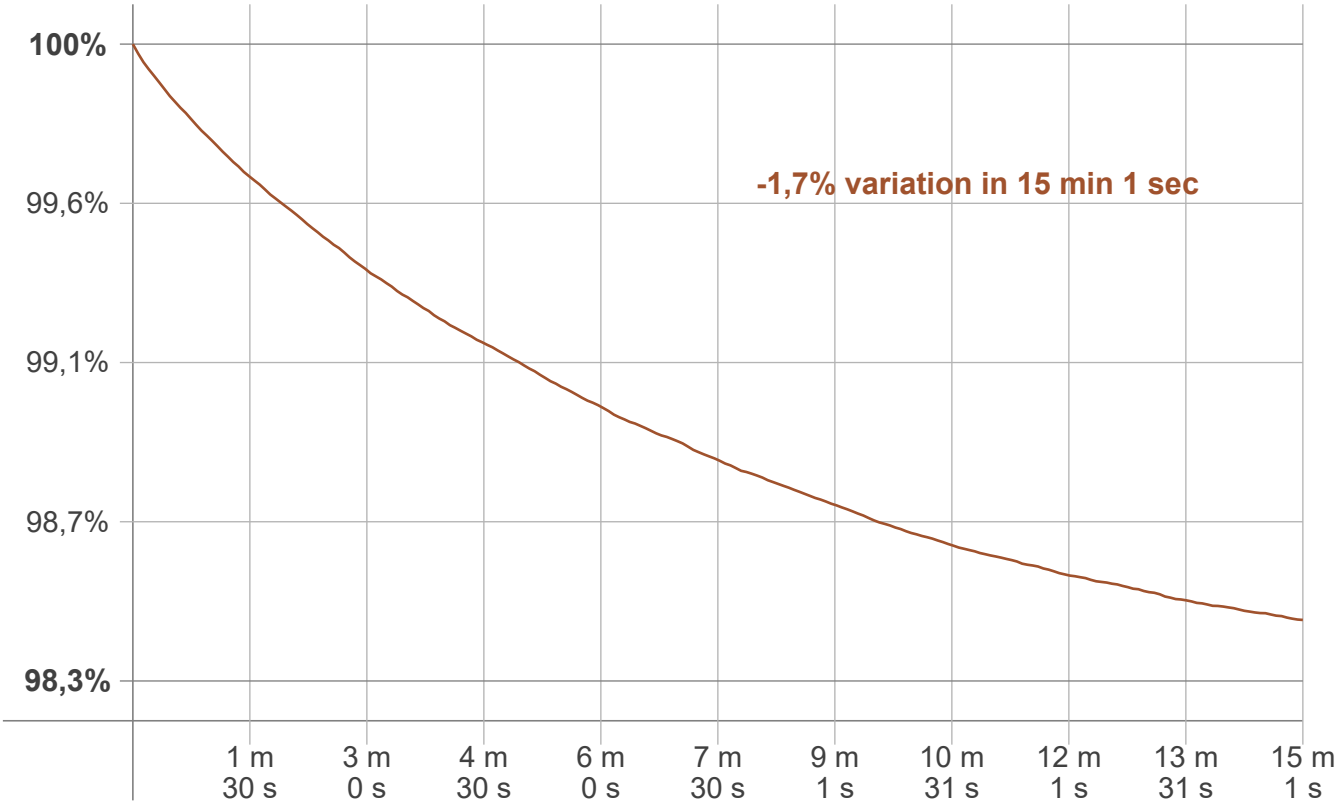


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
136 lm	275 lm	226 lm	205 lm	160 lm	95,5 lm	53,1 lm	29,2 lm	16,7 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
2,39 lm	4,13 lm	0,648 lm	0,585 lm	0,428 lm	0,294 lm	0,217 lm	0,133 lm	8,28 lm

Warmup curve



Warmup result

Warmup time:	**Lamp stabilized in 15 min 1 sec**
Warmup variation	**-1,7%**

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2697 K	+3 K	2700 K

Output change

Output start	Output change	Output end
1233 lm	-20 lm	1213 lm