Light efficiency:

88 Lumen/Watt

Light quality:

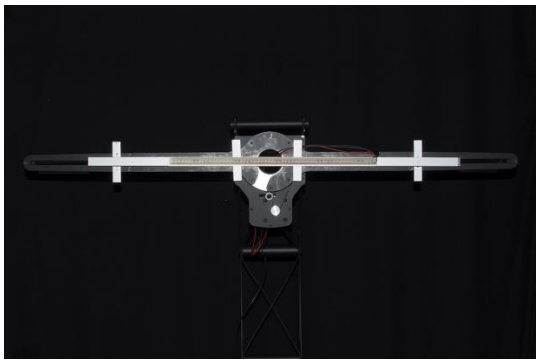
CRI: 92,8

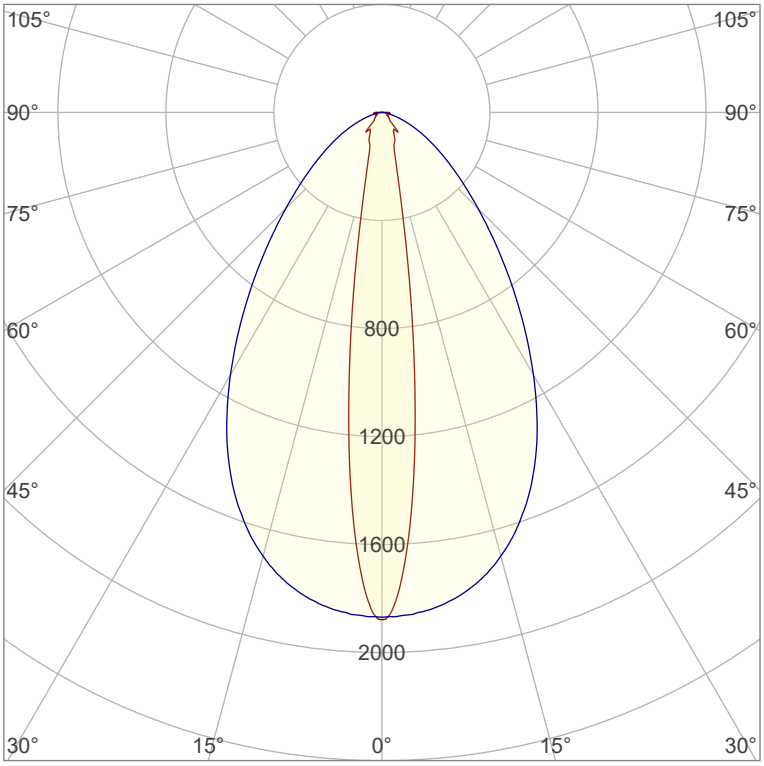
Color temperature:

2700 K

Output: 1011 lm
Peak: 1877 cd

Power: 11,5 W
PF: 1,0





Product name:
Jago-2_510mm_927_Inlay-Lens-15°

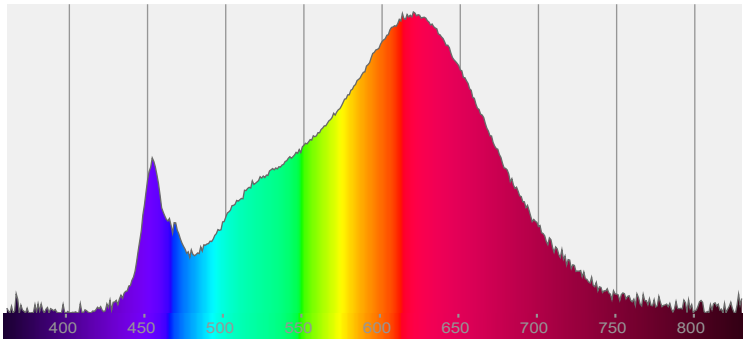
Item number:
NP/L1C/19B/0510/927/IL1F

Date and time:
26.06.2025 11:29:01

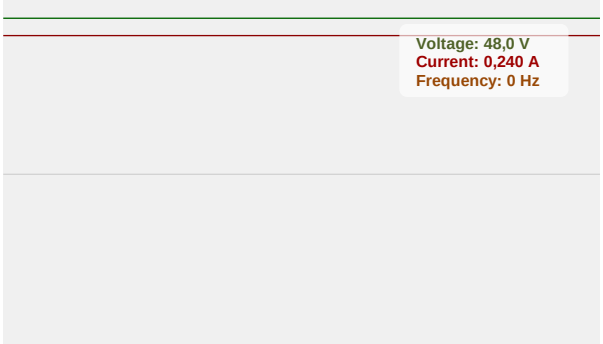
Description:
Tolerances:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 Kelvin
CRI +/-0,7
Angular Resolution: 1 Degree Step
Last Calibration 07.10.2025
Tester: Peter Ulrich
Test Site: Lichtlabor
Gaustrasse 13
55411 Bingen am Rhein

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

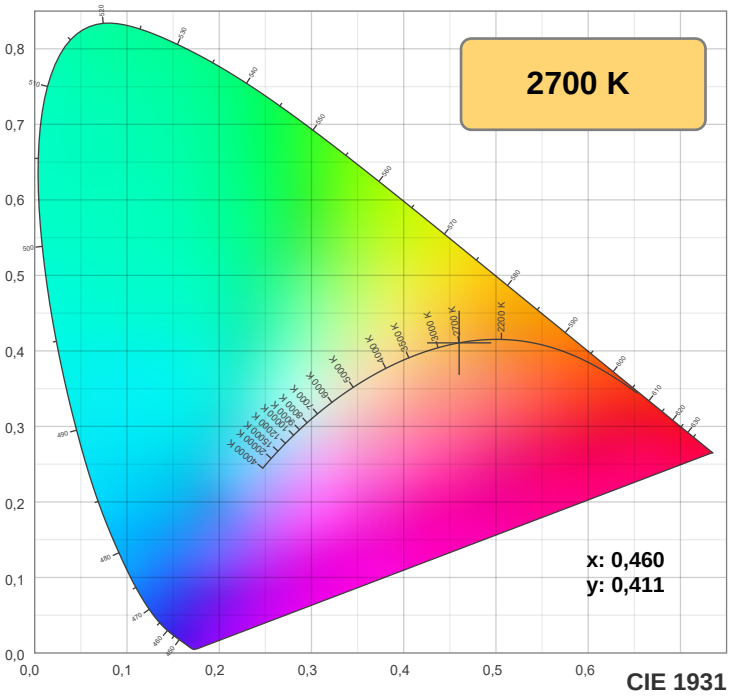
Spectra

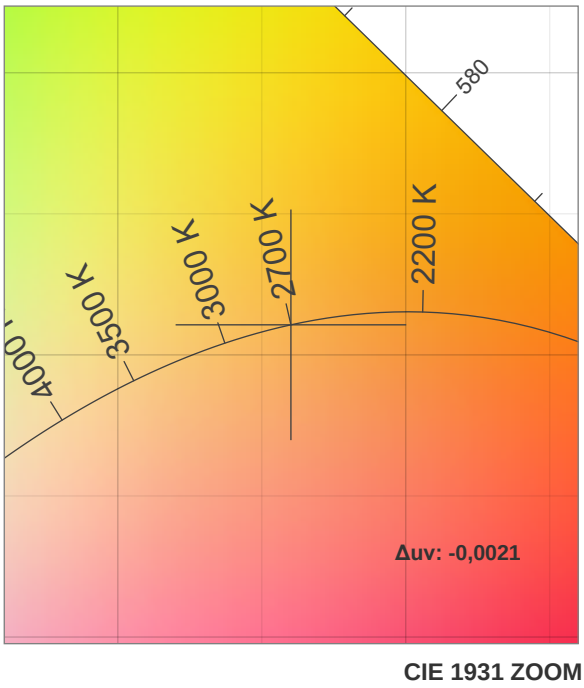


Power

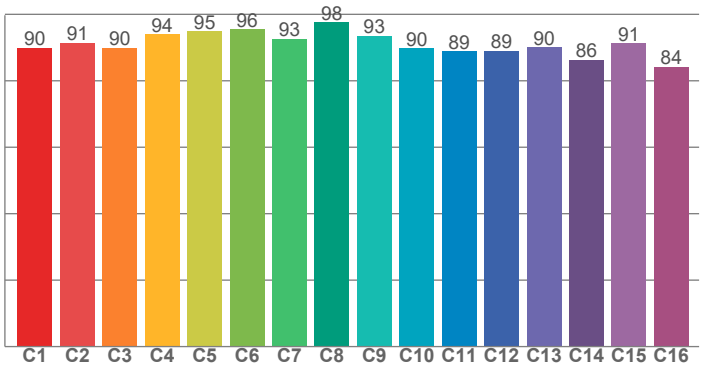


Color details

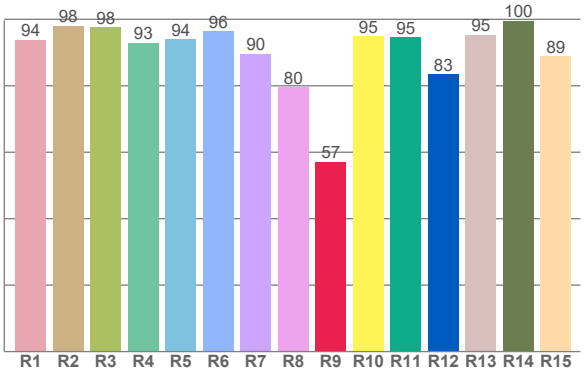




TM30: 91,1



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
93,9	98,1	97,7	93,0	94,0	96,3	89,7	79,6	57,1	94,9	94,7	83,5	95,4	99,6	89,0

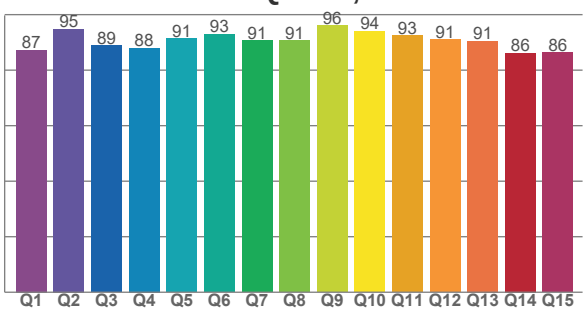
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,9	91,5	89,9	93,9	94,9	95,5	92,6	97,5	93,4	89,7	88,8	89,1	90,1	86,3	91,3	84,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87,3	94,7	88,9	88,0	91,4	92,9	90,6	90,7	96,1	94,0	92,5	91,0	90,5	86,1	86,3

CQS: 90,2



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	92,8	57,1	91,1	99,2	90,2	0,460	0,411	0,263	0,352	-0,0021

TM30 details

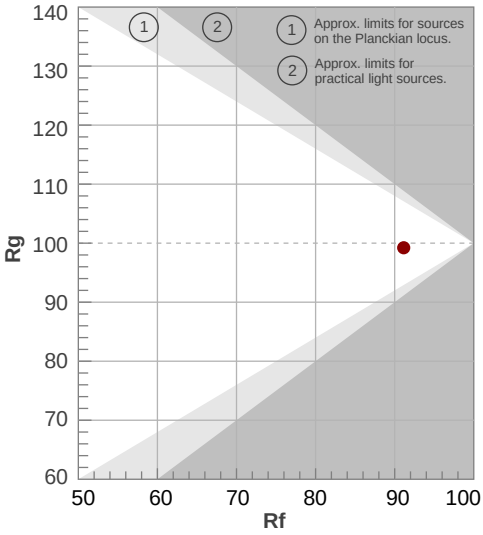
Rf 91,1

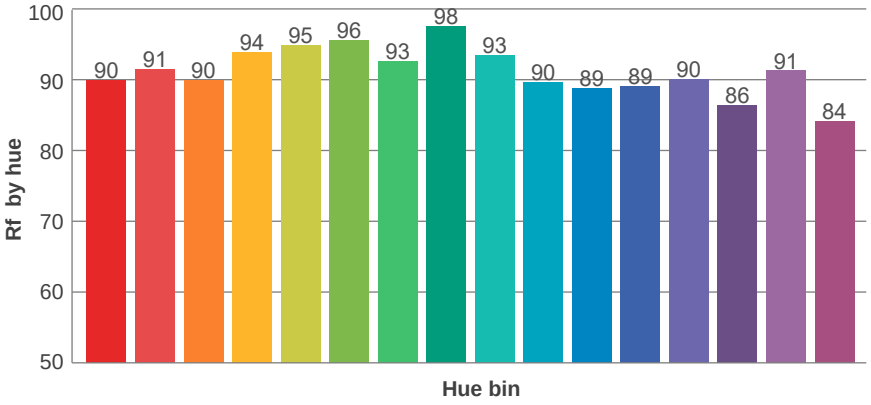
Fidelity index Rf

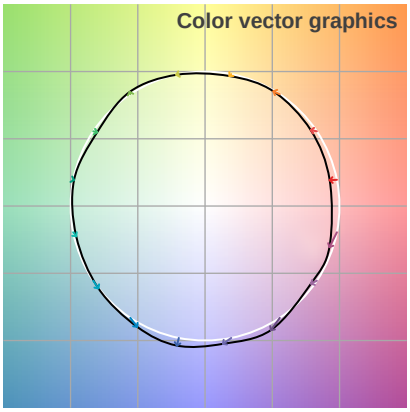
Rg 99,2

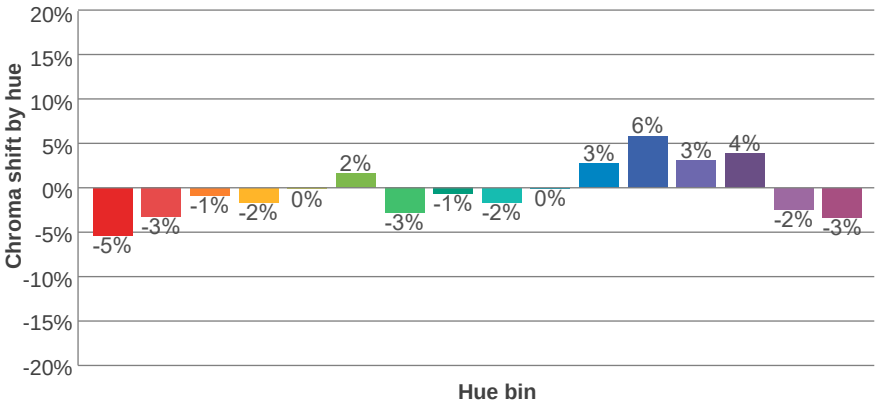
Gammut index Rg

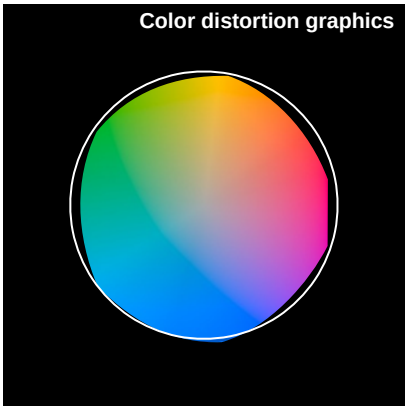
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	90	-5%	1%
2	91	-3%	3%
3	90	-1%	5%
4	94	-2%	1%
5	95	0%	2%
6	96	2%	0%
7	93	-3%	-1%
8	98	-1%	0%
9	93	-2%	3%
10	90	0%	7%
11	89	3%	8%
12	89	6%	0%
13	90	3%	-7%
14	86	4%	-11%
15	91	-2%	-4%
16	84	-3%	-12%

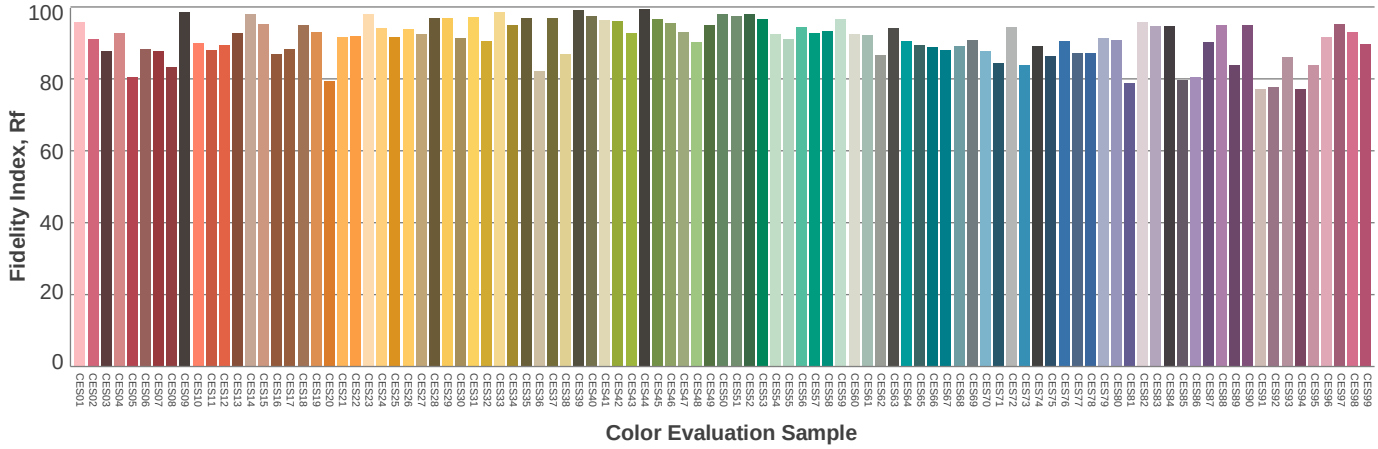




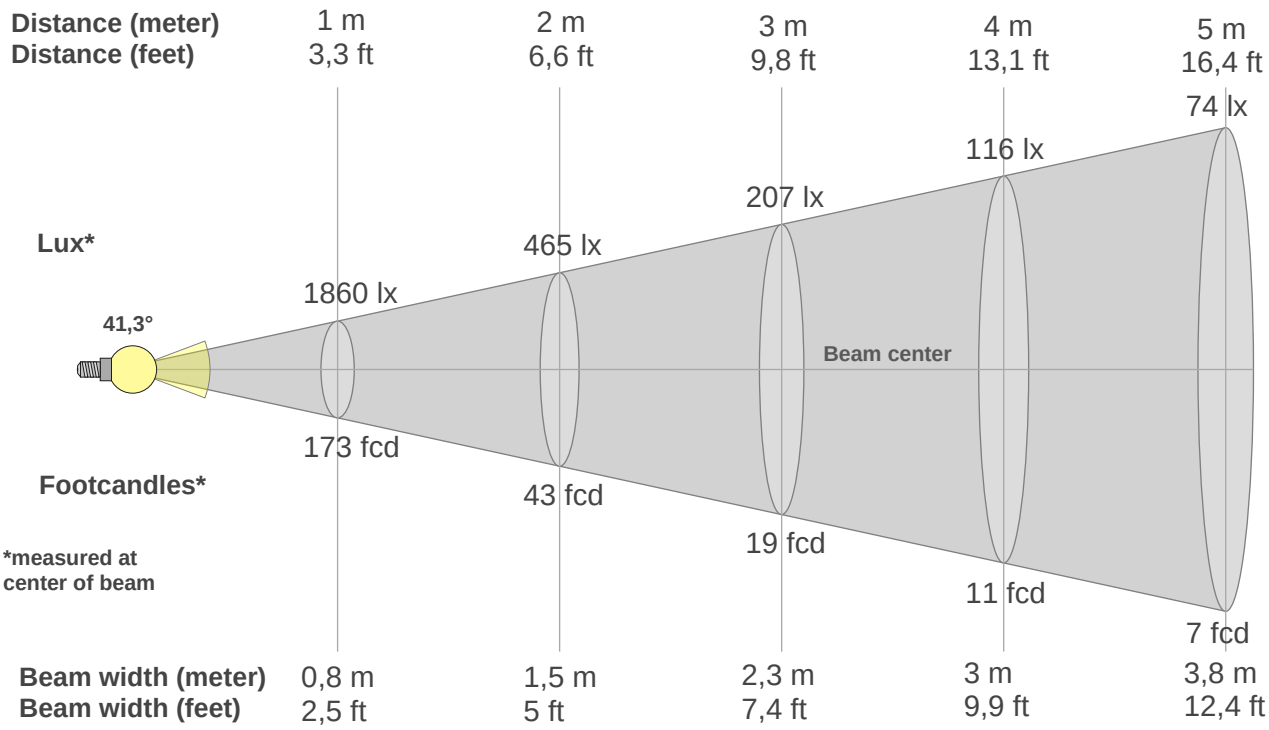








Beam details



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
1860lx	465lx	207lx	116lx	74lx	52lx	38lx	29lx	23lx	19lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	5lx
172,8fc	43,2fcd	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°
1860	1774	1514	1175	825	536	347	242	186	149	131	122	118	108	98	87	81	77	78	89
100%	95%	81%	63%	44%	29%	19%	13%	10%	8%	7%	7%	6%	6%	5%	5%	4%	4%	4%	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°
1860	1866	1858	1845	1825	1800	1767	1726	1675	1618	1553	1480	1399	1311	1217	1122	1026	932	841	756
100%	100%	100%	99%	98%	97%	95%	93%	90%	87%	83%	80%	75%	70%	65%	60%	55%	50%	45%	41%

Intensities in 180° c-plane

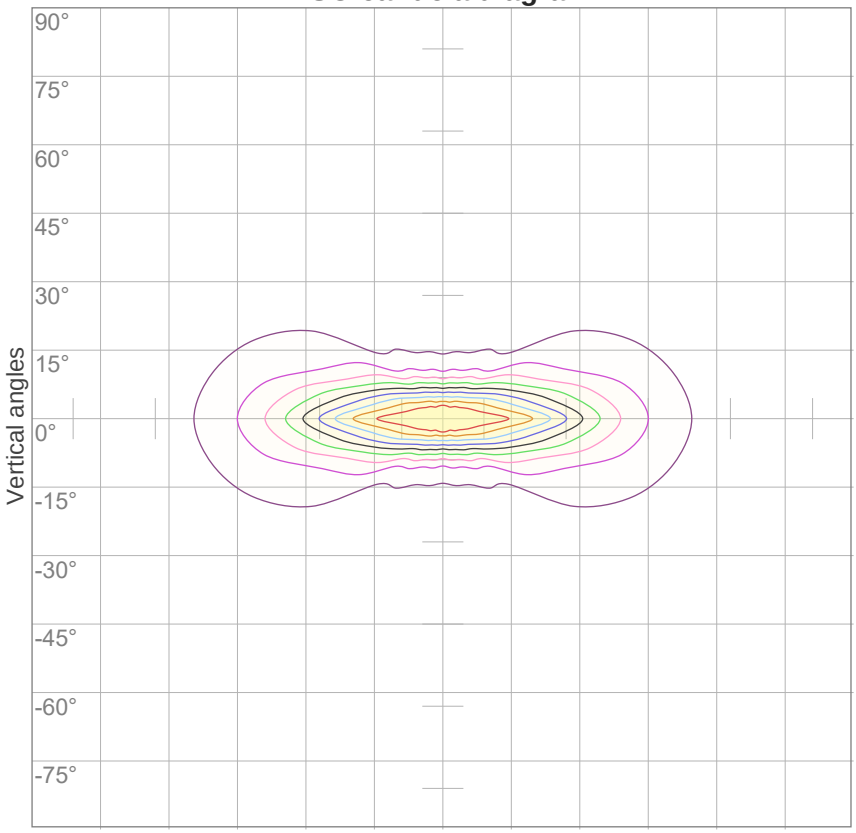
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1860	1774	1514	1175	825	536	347	242	186	149	131	122	118	108	98	87	81	77	78	89
100%	95%	81%	63%	44%	29%	19%	13%	10%	8%	7%	7%	6%	6%	5%	5%	4%	4%	4%	5%

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°
1860	1866	1858	1845	1825	1800	1767	1726	1675	1618	1553	1480	1399	1311	1217	1122	1026	932	841	756
100%	100%	100%	99%	98%	97%	95%	93%	90%	87%	83%	80%	75%	70%	65%	60%	55%	50%	45%	41%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
41,3°	**76,4°**	**117,7°**	**87,0%**	**72,8%**

ISO candela diagram



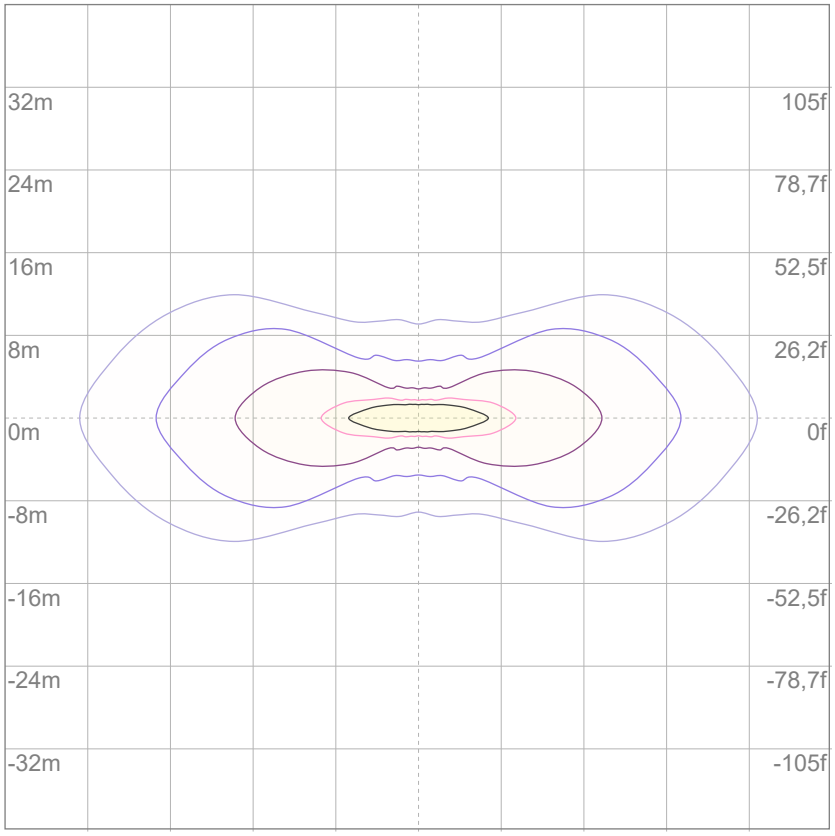
10%	186 cd
20%	372 cd
30%	558 cd
40%	744 cd
50%	930 cd
60%	1116 cd
70%	1302 cd
80%	1488 cd
90%	1674 cd

Conditions:

Number of c-planes: 16

Candela at center: 1860 cd

ISO lux diagram



Mounting height: 10 meters (33 feet)

3%	0,558 lx
5%	0,930 lx
10%	1,86 lx
30%	5,58 lx
50%	9,30 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				
2H	2H	12,2	13,1	12,4	13,4	13,6	24,2	25,1	24,4	25,4	25,6
	3H	13,3	14,3	13,7	14,5	14,7	24,9	25,9	25,3	26,1	26,3
	4H	14,4	15,4	14,9	15,6	15,9	25,1	26,0	25,5	26,3	26,5
	6H	16,0	16,8	16,3	17,1	17,5	25,3	26,1	25,6	26,4	26,7
	8H	16,7	17,5	17,1	17,9	18,2	25,3	26,1	25,6	26,4	26,8
	12H	17,5	18,2	17,8	18,6	19,0	25,3	26,0	25,6	26,4	26,8
4H	2H	13,9	14,9	14,3	15,1	15,4	23,9	24,9	24,3	25,1	25,4
	3H	15,1	15,9	15,5	16,3	16,7	24,8	25,6	25,2	26,0	26,4
	4H	16,2	16,9	16,6	17,3	17,8	25,1	25,8	25,5	26,2	26,7
	6H	17,7	18,4	18,2	18,7	19,1	25,2	25,9	25,7	26,3	26,6
	8H	18,5	19,1	19,0	19,5	19,9	25,3	25,9	25,8	26,3	26,7
	12H	19,3	19,8	19,8	20,2	20,7	25,3	25,8	25,8	26,2	26,7
8H	4H	16,9	17,5	17,4	17,9	18,3	25,0	25,6	25,5	26,0	26,4
	6H	18,6	19,1	19,1	19,6	20,1	25,3	25,7	25,8	26,2	26,7
	8H	19,6	20,0	20,1	20,6	21,2	25,4	25,8	25,9	26,3	26,9
	12H	20,6	20,9	21,2	21,4	22,0	25,4	25,8	26,0	26,3	26,9
12H	4H	17,0	17,5	17,5	18,0	18,4	25,0	25,5	25,5	25,9	26,4
	6H	18,9	19,3	19,4	19,8	20,4	25,3	25,7	25,8	26,2	26,8
	8H	19,9	20,3	20,5	20,8	21,4	25,4	25,7	26,0	26,2	26,8

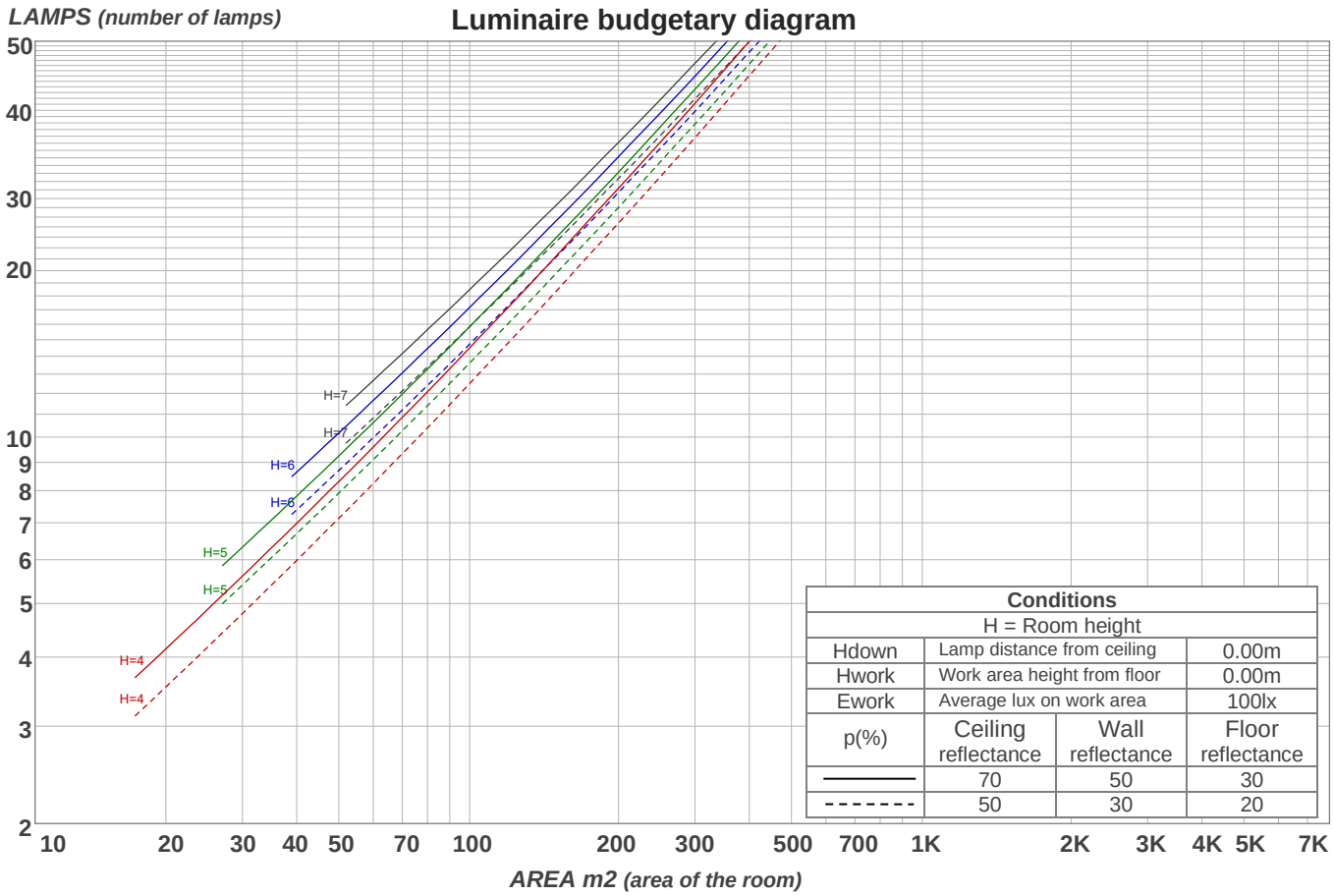
Variation of the observer position for the luminaire distance S		
S = 1.0H	0,2 / -0,2	1,0 / -0,9
S = 1.5H	0,3 / -0,2	2,3 / -2,1
S = 2.0H	0,6 / -0,4	3,6 / -3,3
Standard table	n/a	n/a
Correction summand	n/a	n/a

Corrected glare indices referring to 1011 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	110	107	103	100	108	104	101	98	100	97	95	95	93	92	92	90	88	86
2	103	97	91	87	100	95	90	85	91	87	83	87	84	81	84	81	79	77
3	96	88	82	76	94	86	80	76	83	78	74	80	76	73	78	74	71	69
4	90	81	74	68	88	79	73	68	77	71	67	74	70	66	72	68	65	63
5	85	75	67	62	83	73	67	62	71	65	61	69	64	60	67	63	59	58
6	80	69	62	57	78	68	62	57	66	60	56	65	59	55	63	58	55	53
7	76	65	58	53	74	64	57	52	62	56	52	61	55	51	59	55	51	49
8	72	61	54	49	70	60	53	49	58	53	48	57	52	48	56	51	48	46
9	68	57	50	46	67	56	50	46	55	49	45	54	49	45	53	48	45	43
10	65	54	47	43	64	53	47	43	52	47	43	51	46	42	50	46	42	41

Luminaire budgetary diagram

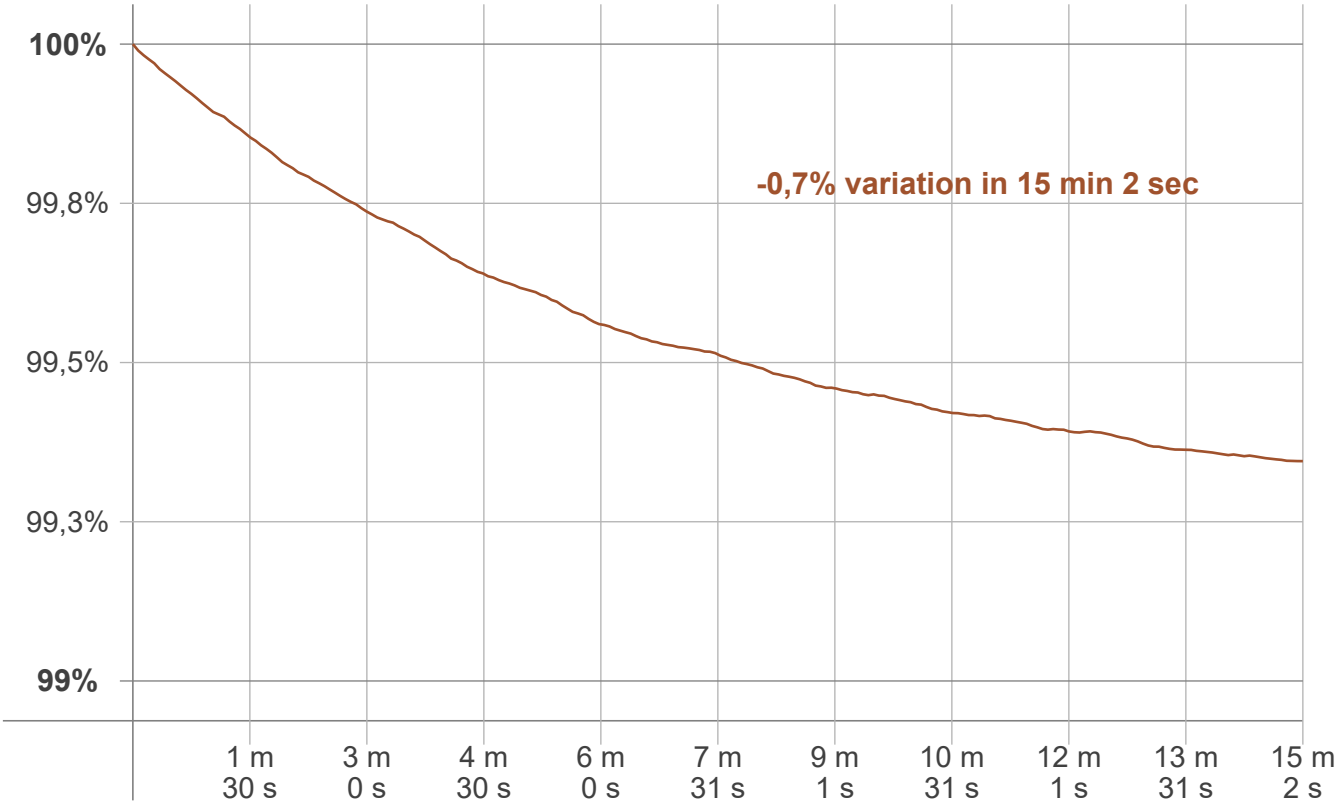


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
129 lm	201 lm	183 lm	157 lm	123 lm	86,1 lm	53,9 lm	32,8 lm	22,6 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
2,06 lm	5,88 lm	1,87 lm	1,69 lm	0,684 lm	0,000 lm	0,000 lm	0,000 lm	9,80 lm

Warmup curve



Warmup result

Warmup time:	**Lamp stabilized in 15 min 2 sec**
Warmup variation	**-0,7%**

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2700 K	0 K	2700 K

Output change

Output start	Output change	Output end
1018 lm	-7 lm	1011 lm