Light efficiency:

69 Lumen/Watt

Light quality:

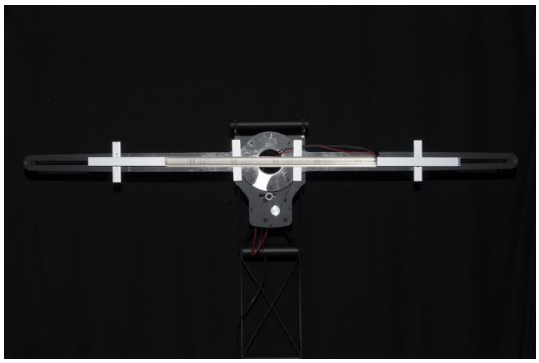
CRI: 94,6

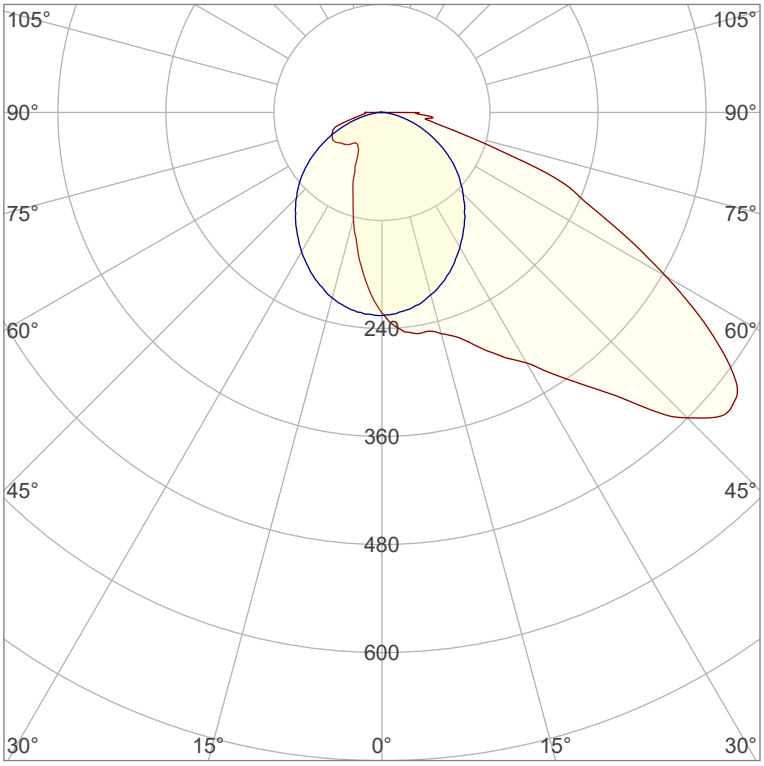
Color temperature:

2700 K

Output: 790 lm
Peak: 508 cd

Power: 11,5 W
PF: 1,0





Product name:
Jago-2_510mm_927_Inlay-Lens-Asymmetric-Frosted_IP65P

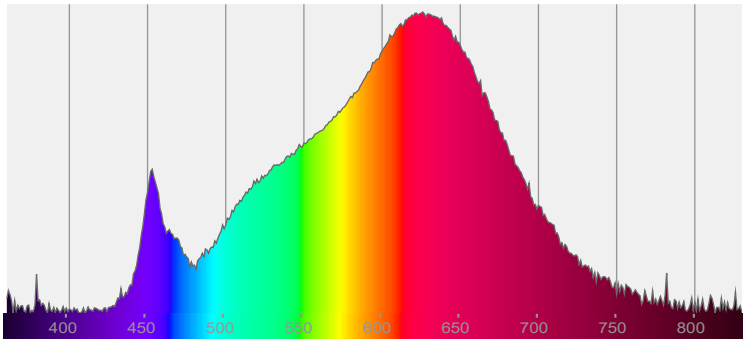
Item number:
NP/L1C/19B/0510/927/ILAF/IP65P

Date and time:
13.09.2022 12:54:56

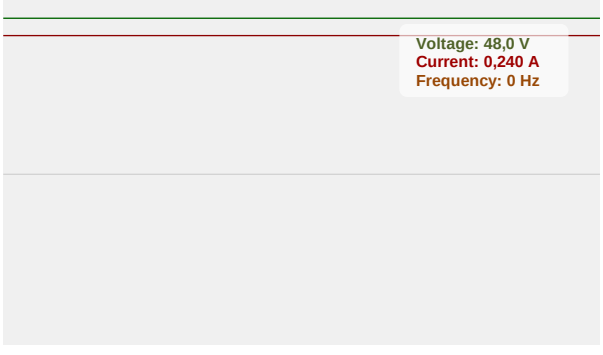
Description:
Tolerances:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 Kelvin
CRI +/-0,7
Angular Resolution: 1 Degree Step
Last Calibration 07.10.2025
Tester: Peter Ulrich
Test Site: Lichtlabor
Gaustrasse 13
55411 Bingen am Rhein

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

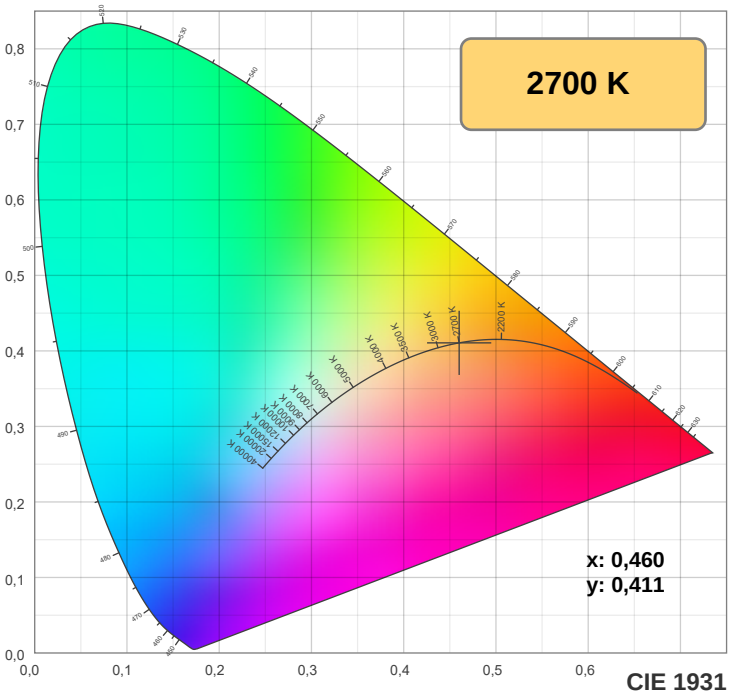
Spectra



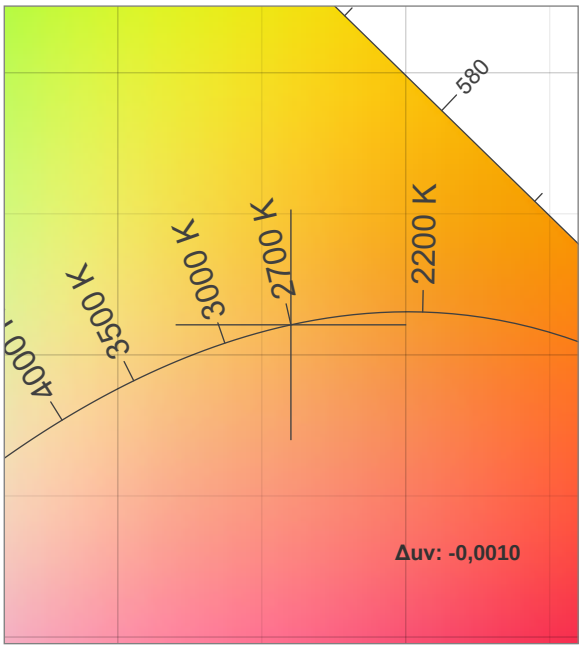
Power



Color details

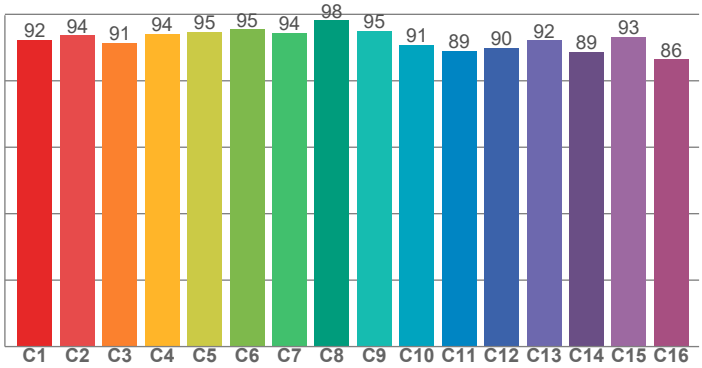


CIE 1931

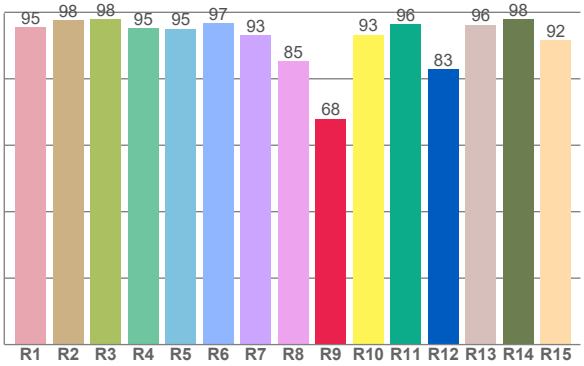


CIE 1931 ZOOM

TM30: 92,3



CRI: 94,6 (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
95,5	97,7	98,0	95,3	95,1	96,7	93,1	85,4	68,0	93,3	96,4	82,9	96,3	98,0	91,7

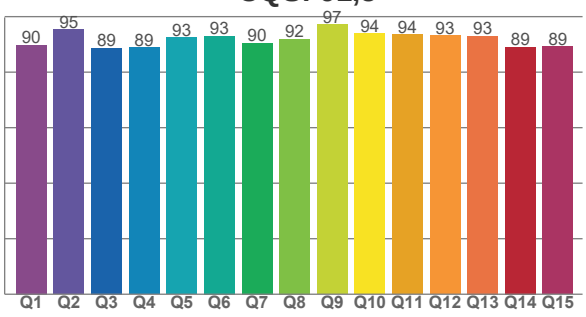
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92,4	93,6	91,4	94,1	94,7	95,4	94,4	98,2	95,0	90,8	89,1	89,9	92,2	88,7	93,2	86,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89,8	95,4	88,7	88,9	92,5	93,0	90,5	92,0	97,2	93,9	93,5	93,1	93,0	89,1	89,2

CQS: 91,5



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	94,6	68,0	92,3	100,2	91,5	0,460	0,411	0,263	0,352	-0,0010

TM30 details

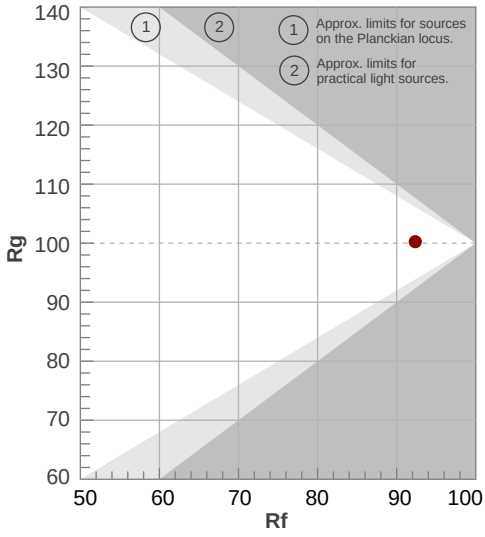
Rf 92,3

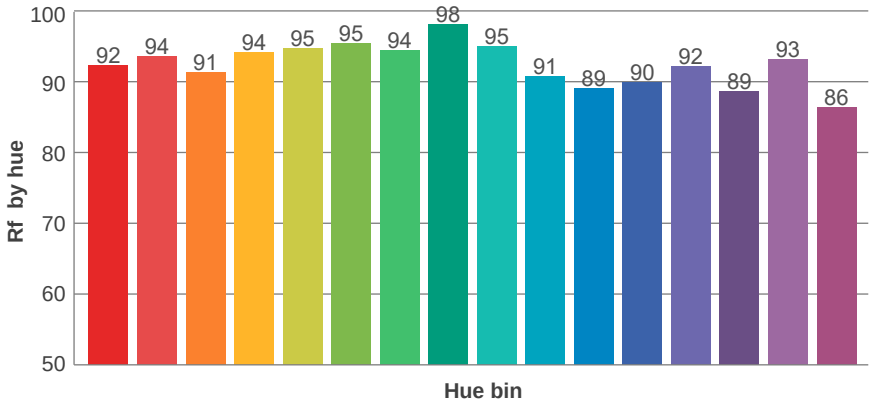
Fidelity index Rf

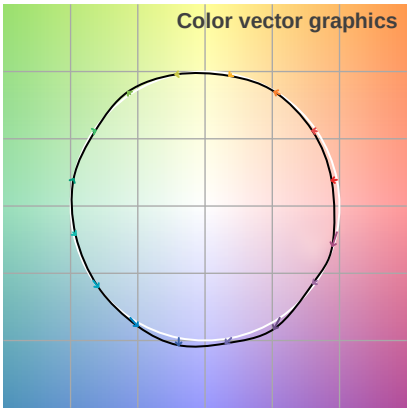
Rg 100,2

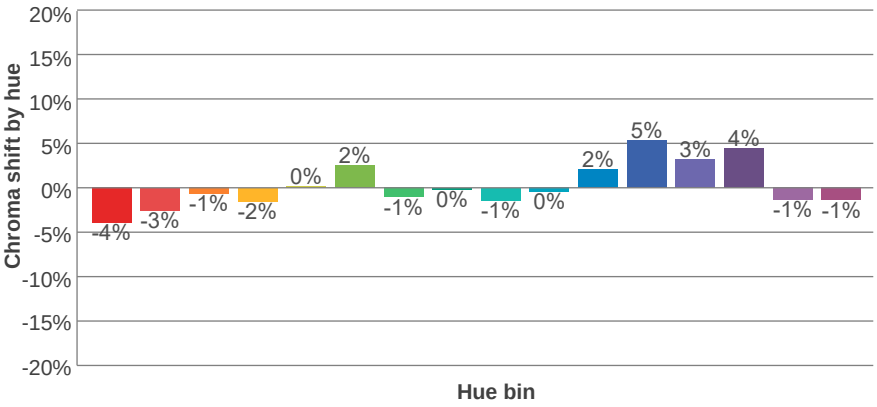
Gammut index Rg

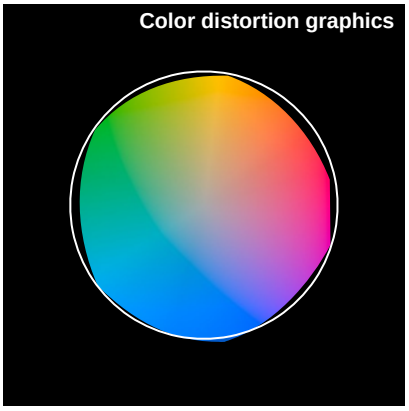
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	92	-4%	0%
2	94	-3%	2%
3	91	-1%	4%
4	94	-2%	1%
5	95	0%	2%
6	95	2%	1%
7	94	-1%	-2%
8	98	0%	-1%
9	95	-1%	2%
10	91	0%	6%
11	89	2%	8%
12	90	5%	1%
13	92	3%	-5%
14	89	4%	-8%
15	93	-1%	-3%
16	86	-1%	-11%

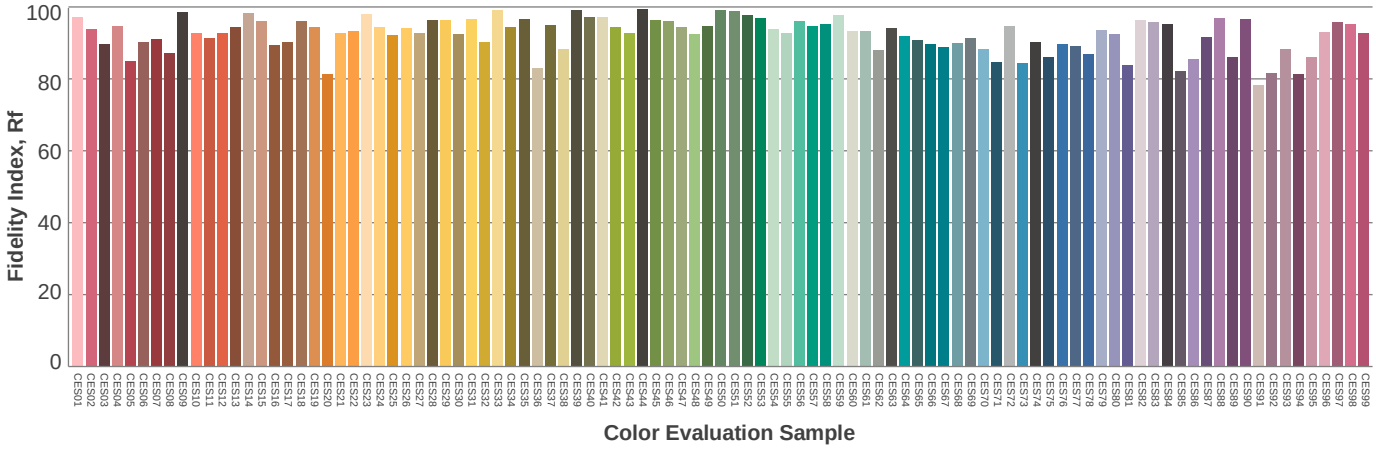




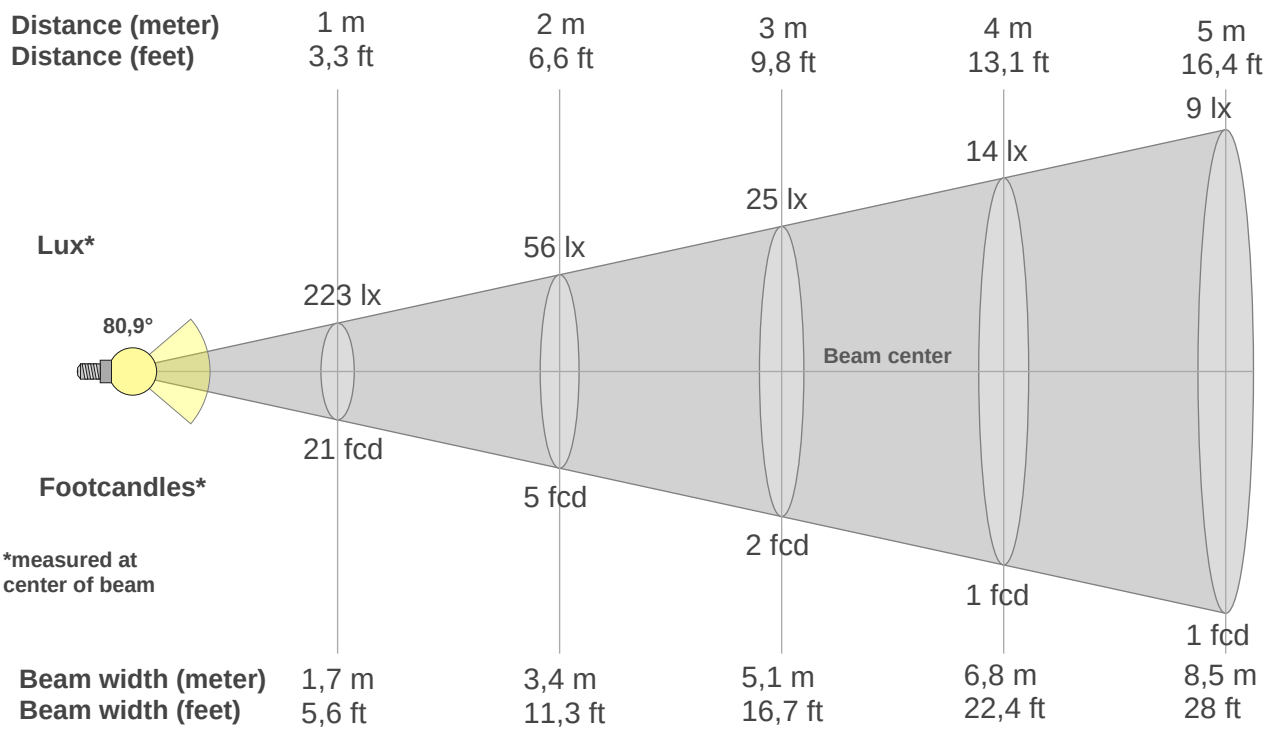








Beam details



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
223lx	56lx	25lx	14lx	9lx	6lx	5lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx
20,7fcd	5,2fcd	2,3fcd	1,3fcd	0,8fcd	0,6fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
223	242	249	254	269	295	322	363	414	480	507	461	365	267	189	93	54	55	13	0
100%	109%	112%	114%	121%	133%	144%	163%	186%	215%	228%	207%	164%	120%	85%	42%	24%	25%	6%	0%

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
223	223	218	210	200	187	173	158	143	127	112	95	77	59	42	26	14	6	3	0
100%	100%	98%	94%	90%	84%	78%	71%	64%	57%	50%	43%	35%	26%	19%	12%	6%	3%	1%	0%

Intensities in 180° c-plane

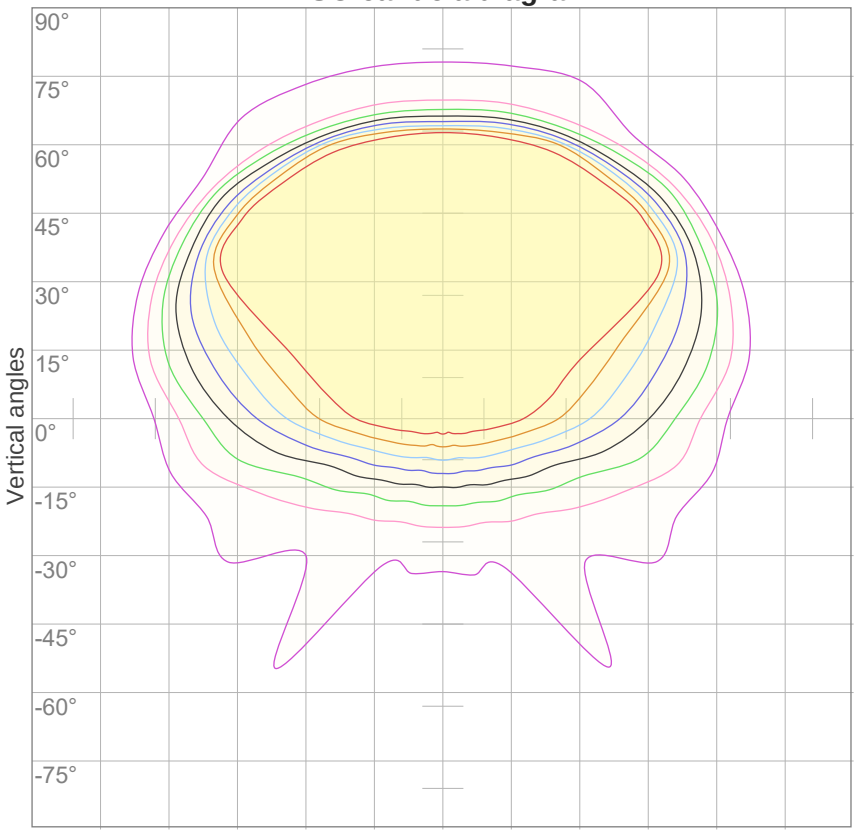
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
223	191	155	122	94	71	53	47	45	50	55	59	62	61	58	45	29	20	17	0
100%	86%	70%	55%	42%	32%	24%	21%	20%	22%	25%	26%	28%	27%	26%	20%	13%	9%	8%	0%

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
223	225	220	213	203	192	179	164	149	134	119	101	83	64	46	29	16	7	1	0
100%	101%	99%	96%	91%	86%	80%	74%	67%	60%	53%	46%	37%	29%	21%	13%	7%	3%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
80,9°	**161,7°**	**178,9°**	**71,4%**	**41,9%**

ISO candela diagram



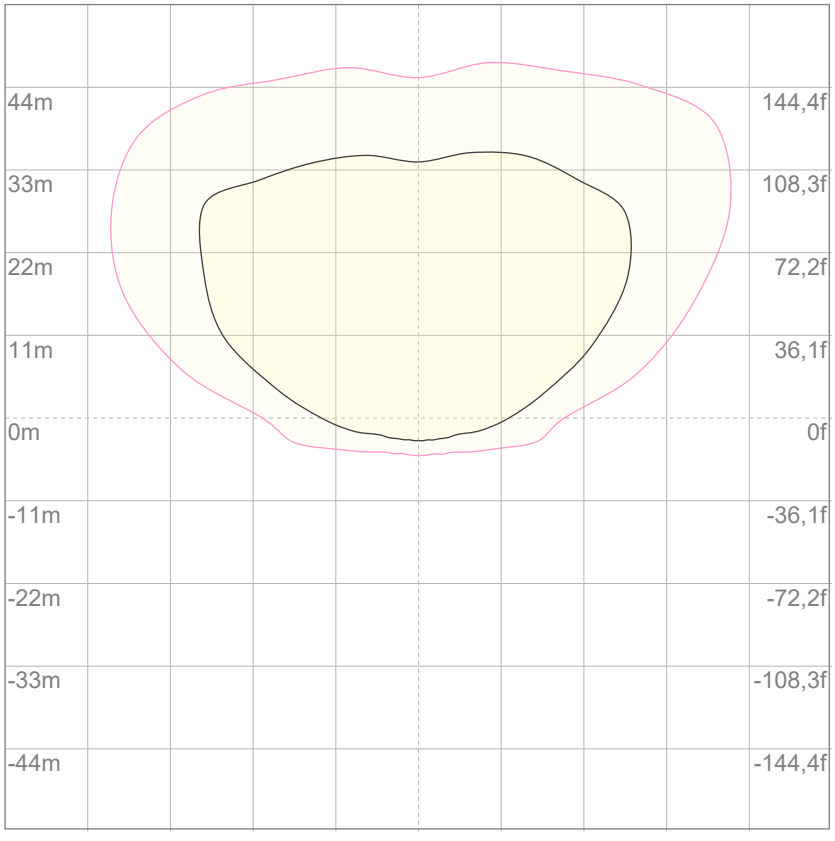
10%	22 cd
20%	45 cd
30%	67 cd
40%	89 cd
50%	111 cd
60%	134 cd
70%	156 cd
80%	178 cd
90%	200 cd

Conditions:

Number of c-planes: 16

Candela at center: 223 cd

ISO lux diagram



Mounting height: 10 meters (33 feet)

3%	66,8m lx
5%	0,111 lx
10%	0,223 lx
30%	0,668 lx
50%	1,11 lx

Conditions:

Number of c-planes: 16

Lux at center: 2,23 lx

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

Glare Evaluation According to UGR

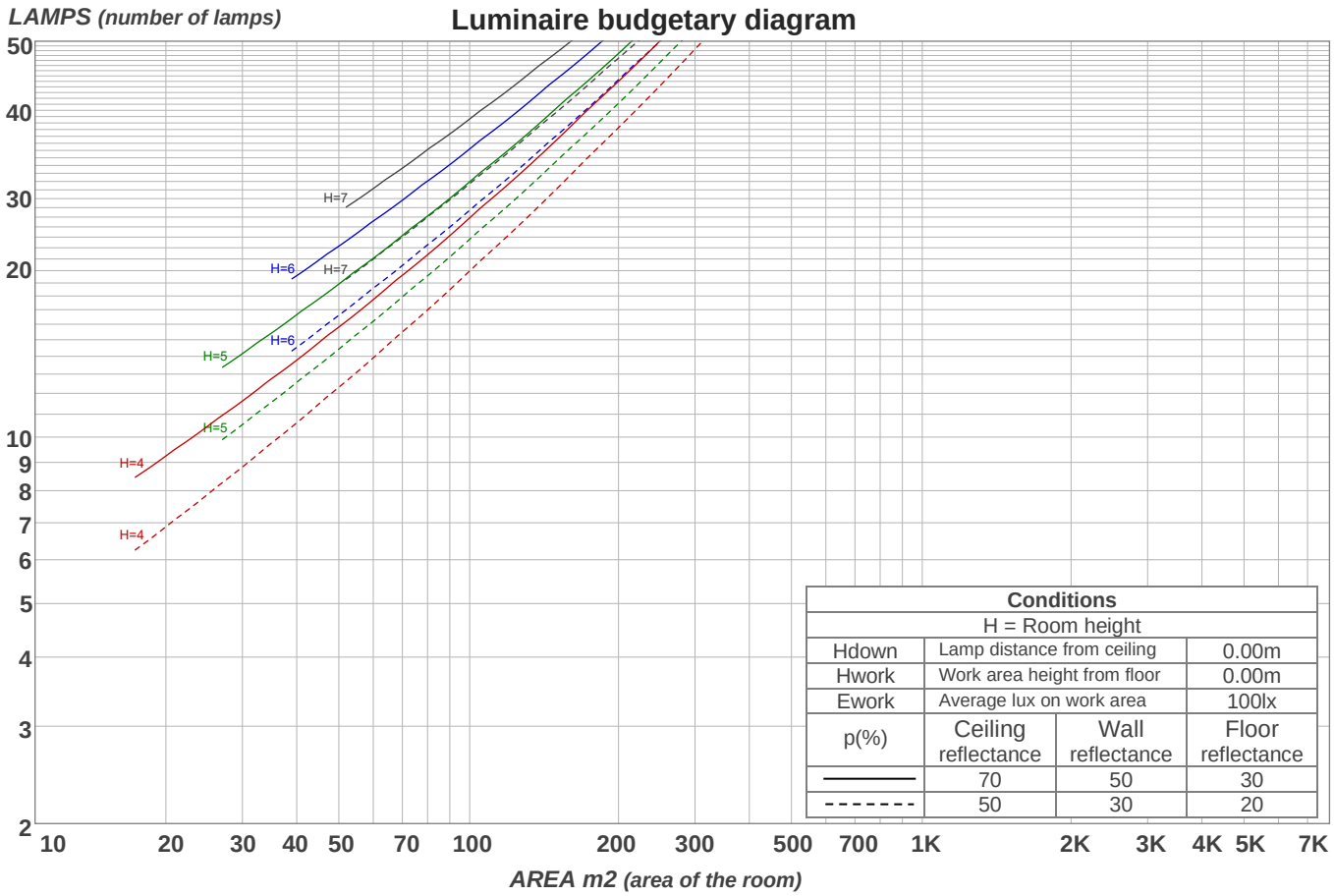
p Ceiling	70	70	50	50	30	70	70	50	50	30
p Walls	50	30	50	30	30	50	30	50	30	30
p Floor	20	20	20	20	20	20	20	20	20	20
Room size X Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	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
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 790 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	107	102	97	92	104	99	95	91	95	91	88	91	88	85	87	85	82	80
2	96	87	79	73	93	85	78	72	81	75	70	78	73	68	75	71	67	65
3	87	75	66	59	84	73	65	58	70	63	57	67	61	56	65	59	55	53
4	79	65	56	48	76	64	55	48	61	54	47	59	52	47	57	51	46	44
5	72	58	48	41	70	57	47	40	54	46	40	52	45	39	50	44	39	37
6	66	51	42	35	64	50	41	35	49	40	34	47	40	34	45	39	34	31
7	61	46	37	30	59	45	36	30	44	36	30	42	35	30	41	34	29	27
8	56	42	33	27	55	41	33	26	40	32	26	39	31	26	37	31	26	24
9	53	38	30	24	51	38	29	24	36	29	23	35	28	23	34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21	33	26	21	32	25	21	19

Luminaire budgetary diagram

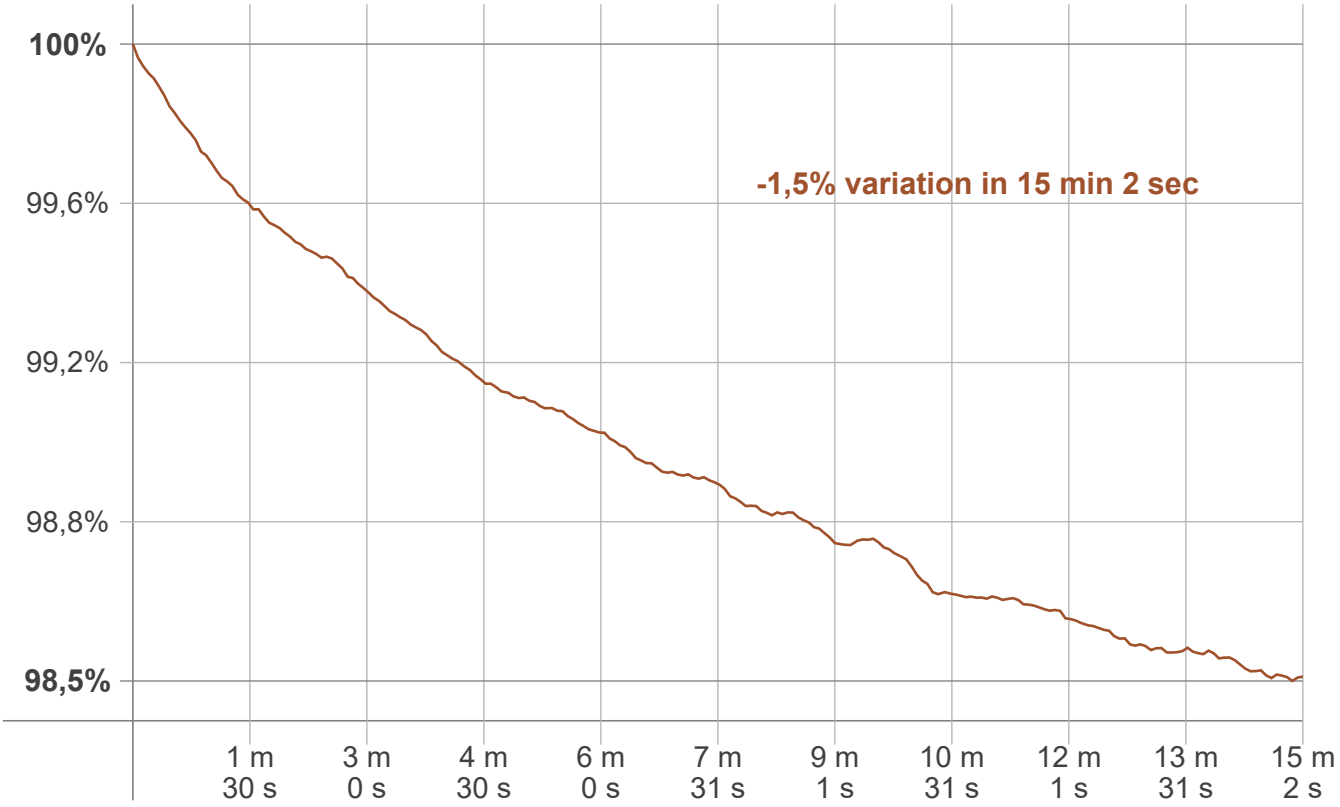


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
20,6 lm	55,4 lm	82,3 lm	107 lm	140 lm	159 lm	128 lm	69,0 lm	28,9 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,052 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 2 sec**
Warmup variation	**-1,5%**

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2706 K	-6 K	2700 K

Output change

Output start	Output change	Output end
803 lm	-13 lm	790 lm