

Light efficiency:

55 Lumen/Watt

Light quality:

CRI: 96.1

Color temperature:

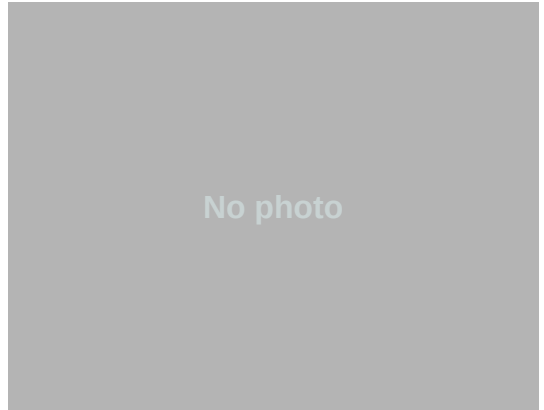
2931 K

Output: 414 lm

Peak: 141 cd

Power: 7.6 W

PF: 1.0



Tracking number: [n/a](#)

Product name:

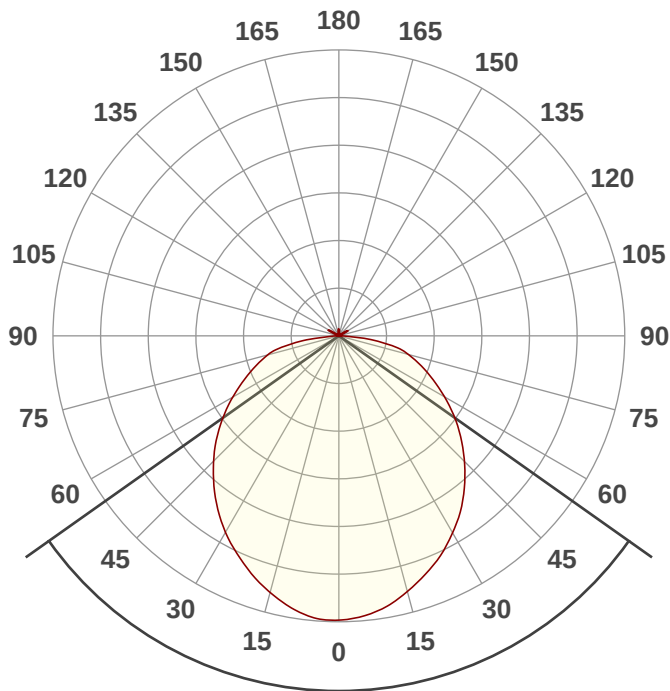
TR0240

Item number:

Date and time:

12/10/2019 3:02:04 PM

Description:

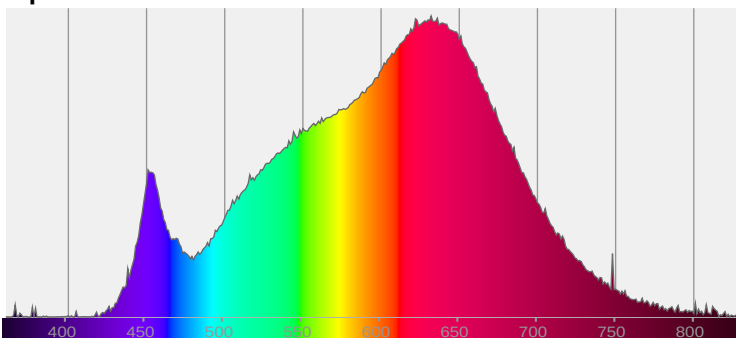


Beam angle **109.4°**

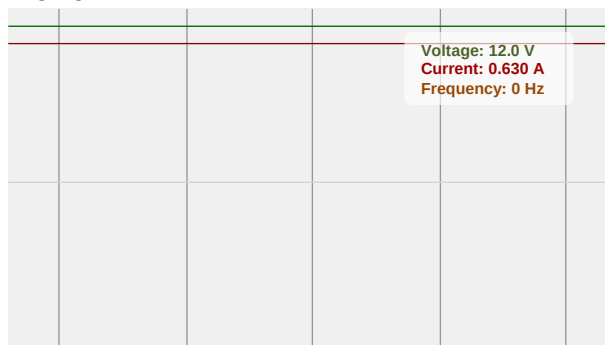


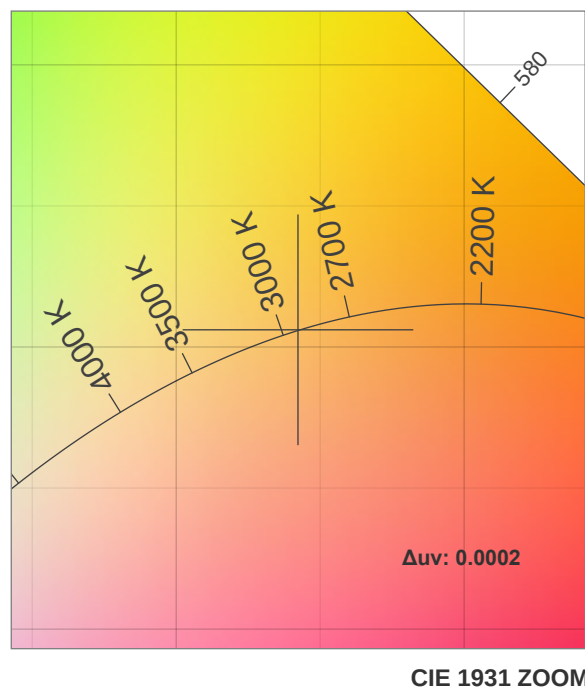
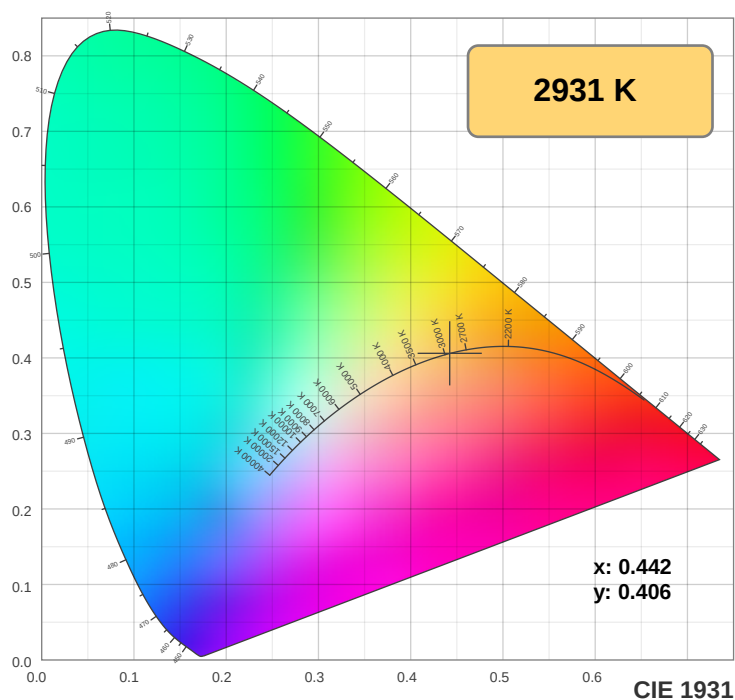
CIE 1931
x: 0.442
y: 0.406

Spectra

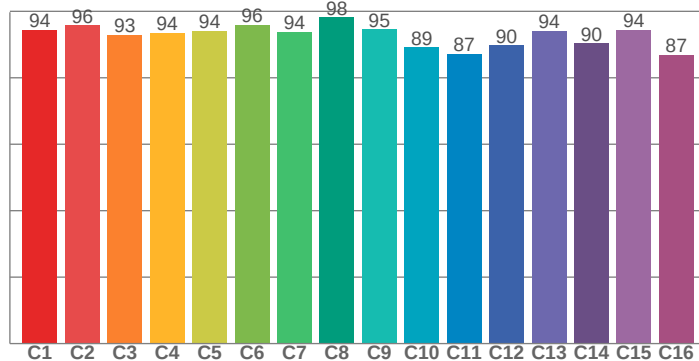


Power

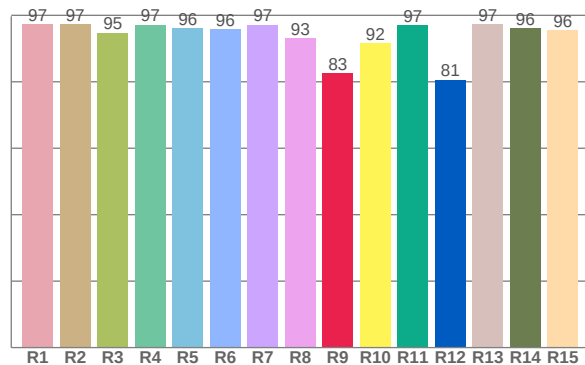




TM30: 92.7



CRI: 96.1 (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
97.3	97.3	94.8	97.2	96.1	95.7	97.2	93.1	82.7	91.6	97.0	80.6	97.3	96.1	95.6

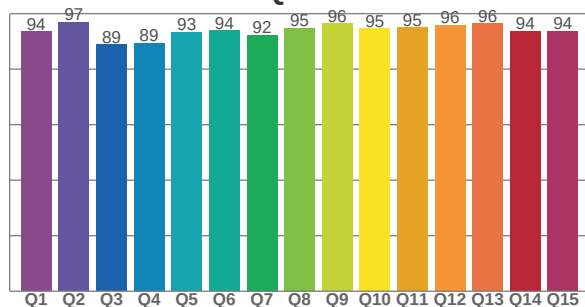
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94.4	95.7	92.9	93.5	94.1	96.0	93.7	98.1	94.6	89.1	87.3	89.7	94.1	90.3	94.4	86.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93.6	96.9	88.9	89.5	93.3	93.9	92.3	94.8	96.5	94.6	95.0	95.9	96.4	93.7	93.6

CQS: 93.4



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	Δuv
2931 K	96.1	82.7	92.7	100.6	93.4	0.442	0.406	0.253	0.349	0.0002

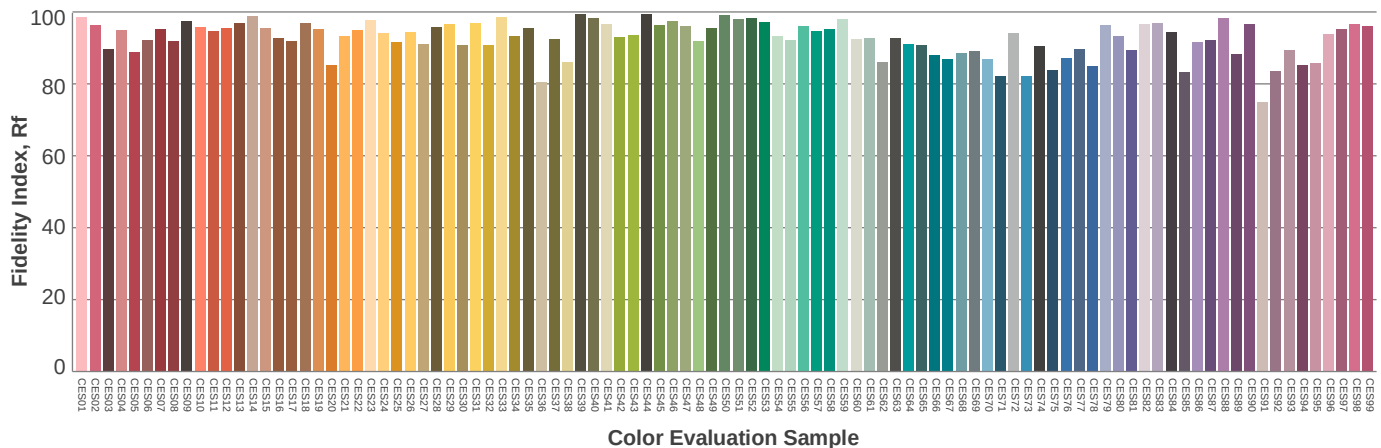
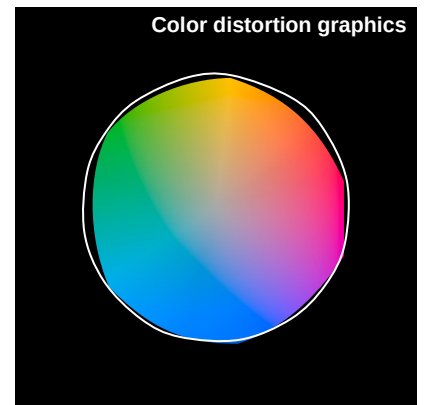
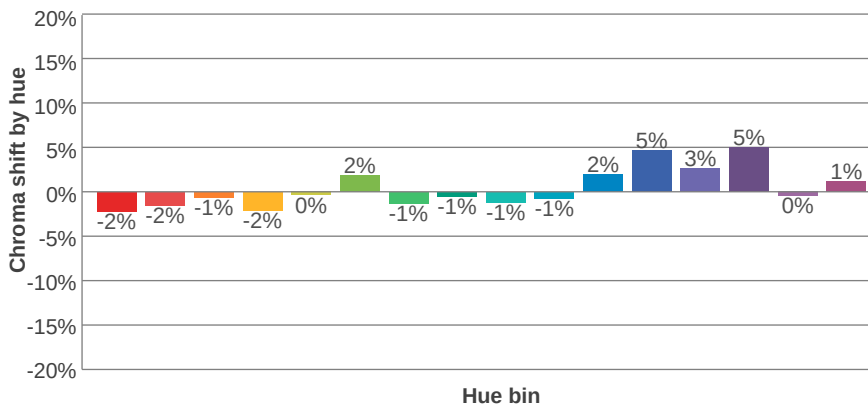
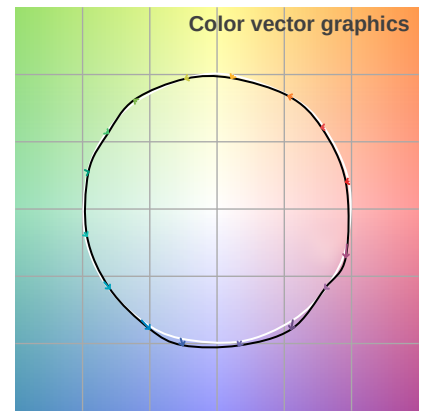
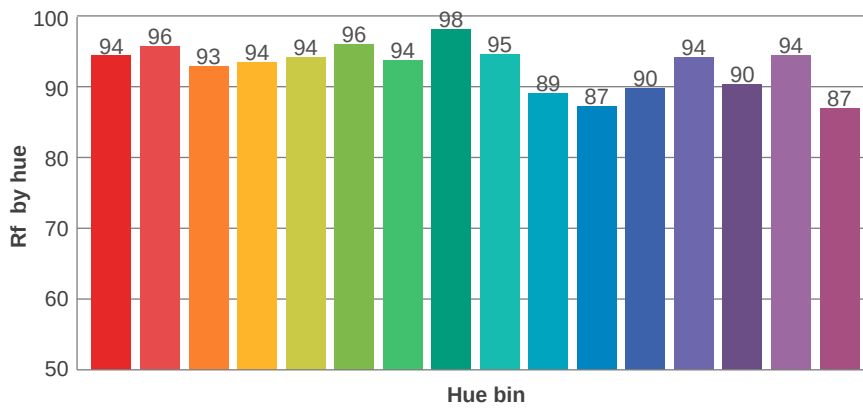
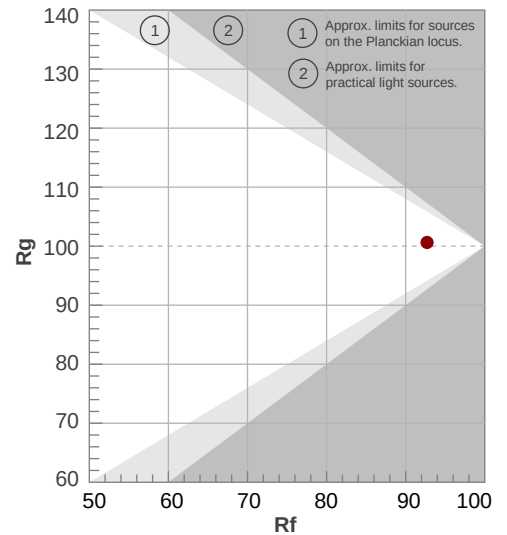
Rf 92.7

Fidelity index Rf

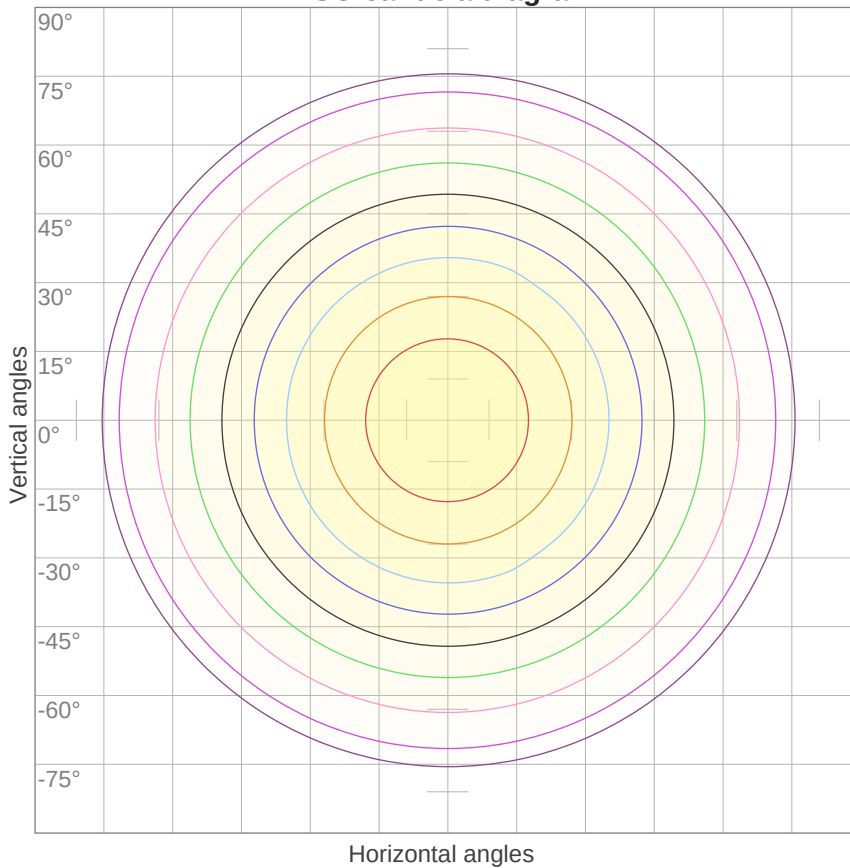
Rg 100.6

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	-2%	0%
2	96	-2%	1%
3	93	-1%	3%
4	94	-2%	1%
5	94	0%	2%
6	96	2%	1%
7	94	-1%	0%
8	98	-1%	0%
9	95	-1%	3%
10	89	-1%	6%
11	87	2%	8%
12	90	5%	3%
13	94	3%	-2%
14	90	5%	-5%
15	94	0%	-2%
16	87	1%	-9%



ISO candela diagram



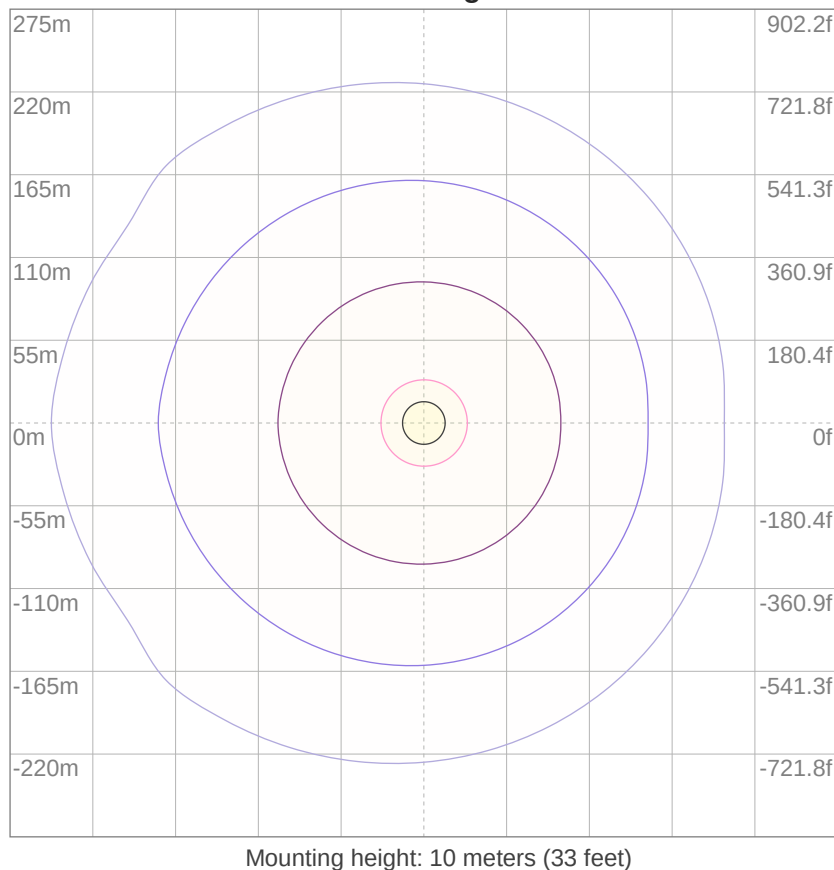
10%	14 cd
20%	28 cd
30%	42 cd
40%	56 cd
50%	71 cd
60%	85 cd
70%	99 cd
80%	113 cd
90%	127 cd

Conditions:

Number of c-planes: 2

Candela at center: 141 cd

ISO lux diagram



3%	42.3m lx
5%	70.5m lx
10%	0.141 lx
30%	0.423 lx
50%	0.705 lx

Conditions:

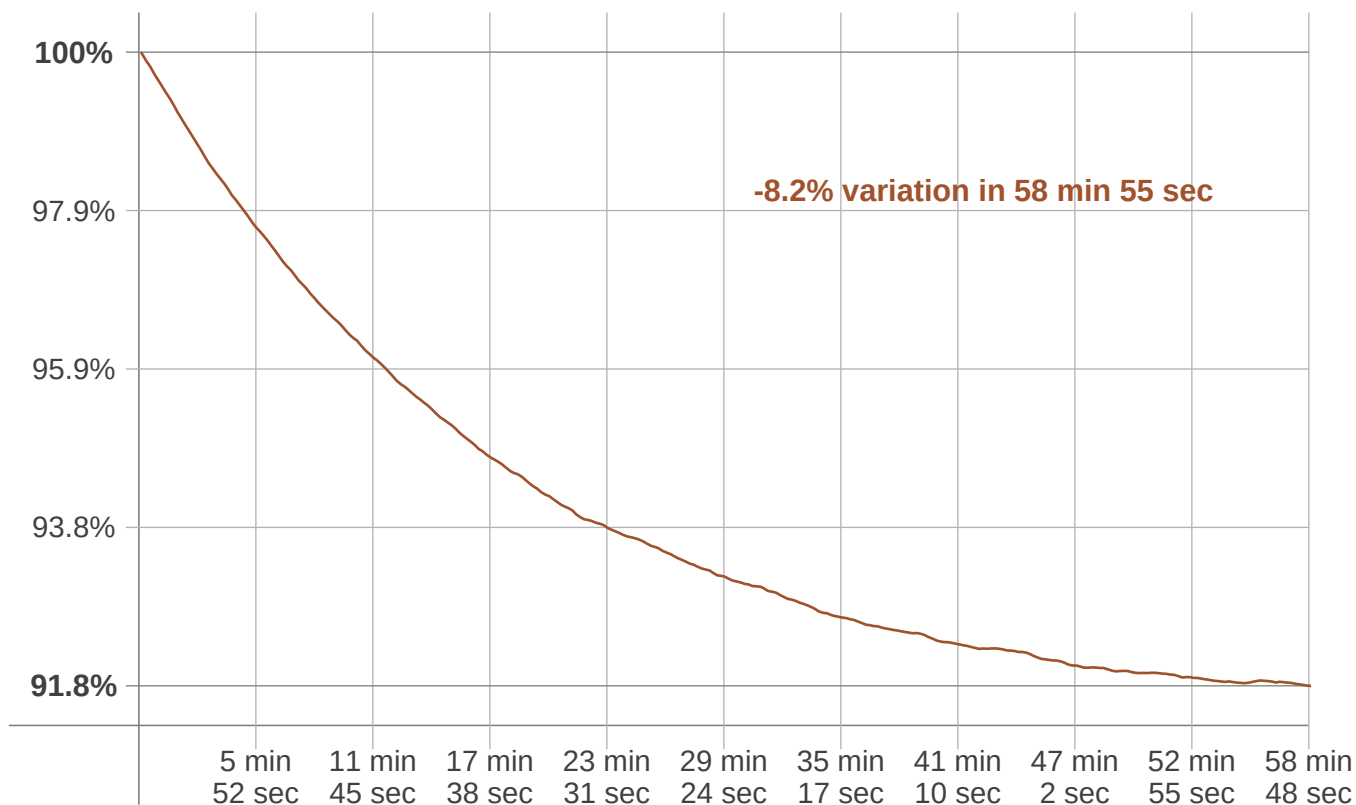
Number of c-planes: 2

Lux at center: 1.41 lx

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

Stabilization

Warmup curve



Warmup result

Warmup time:	58 min 57 sec
Warmup variation	-8.3%

Warmup conditions

Stable period:	15 min
Stable change max:	0.5%
Minimum time:	30 min

Color temperature change

CCT start	CCT change	CCT end
2948 K	-17 K	2931 K

Output change

Output start	Output change	Output end
449 lm	-35 lm	414 lm