

Light efficiency:

50 Lumen/Watt

Light quality:

CRI: 83.1

Color temperature:

2986 K

Output: 647 lm

Peak: 4150 cd

Power: 12.9 W

PF: 0.98

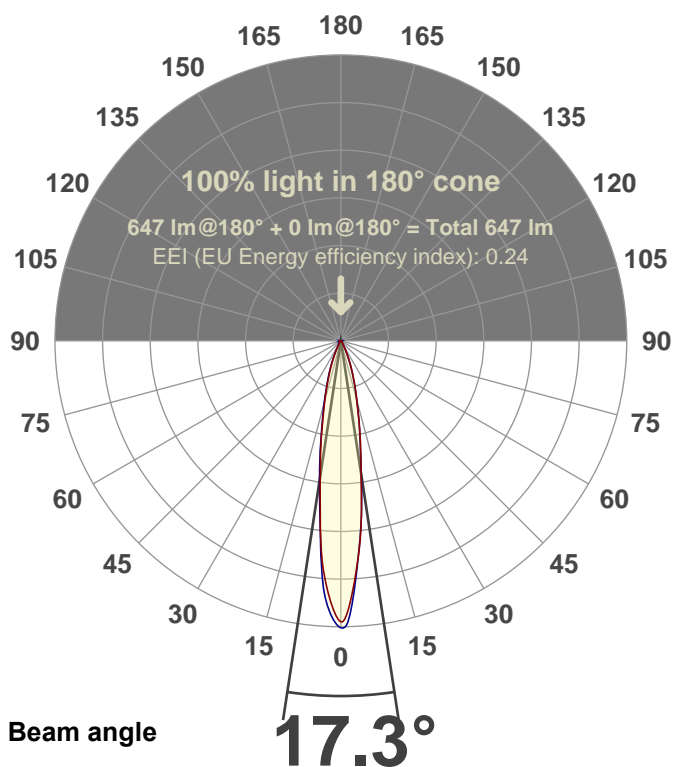


Product name:

**137420-XTM19-13LM-30K-83-SA20-120-
ELV-MC-900300MC-900310**

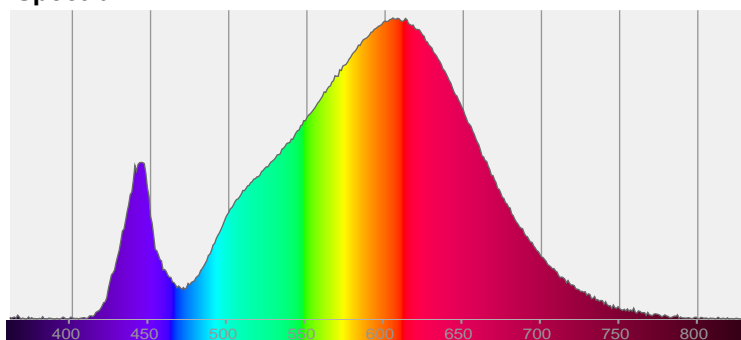
Date and time:

3/19/2018 9:34:55 AM

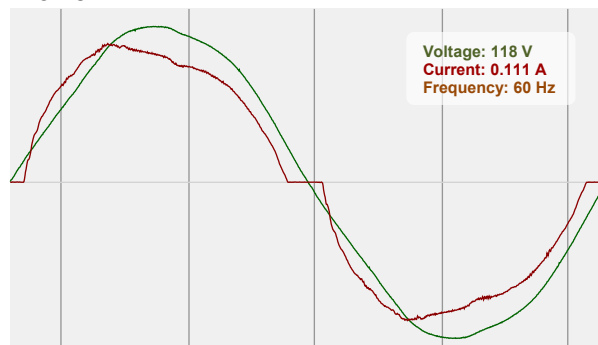


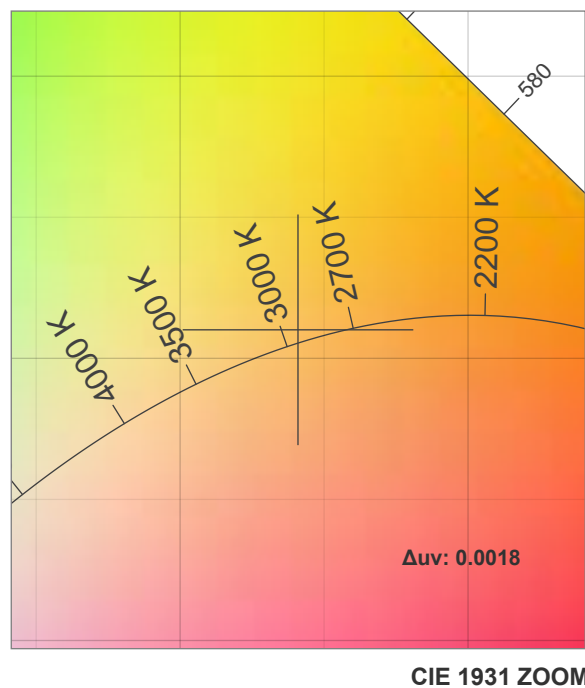
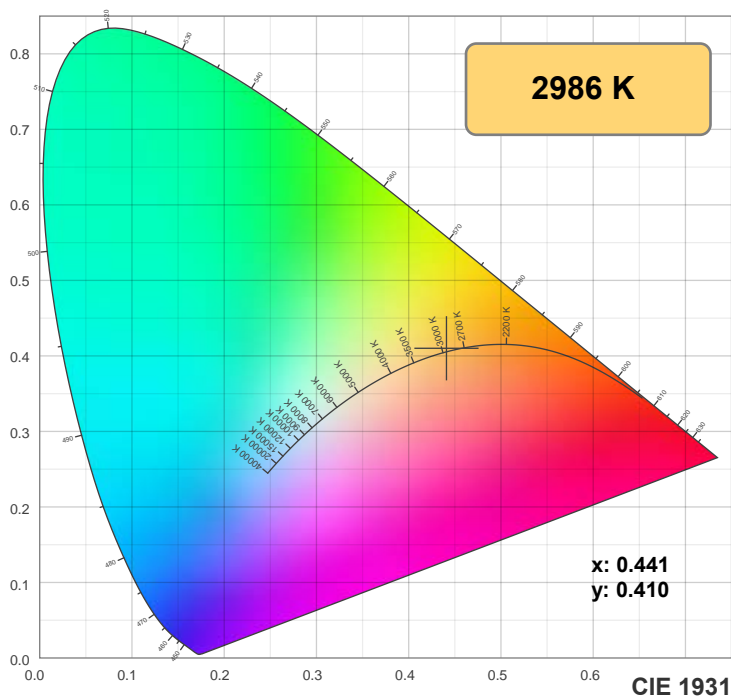
CIE 1931
x: 0.441
y: 0.410

Spectra

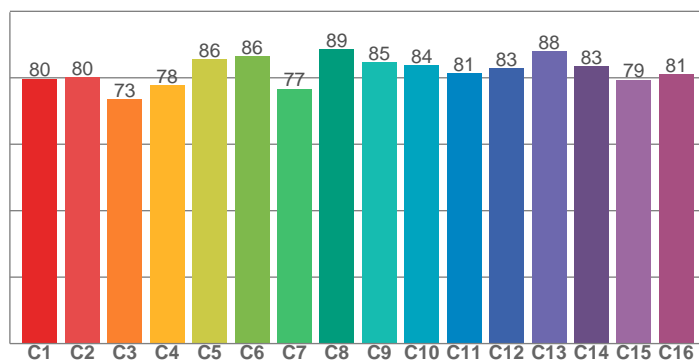


Power

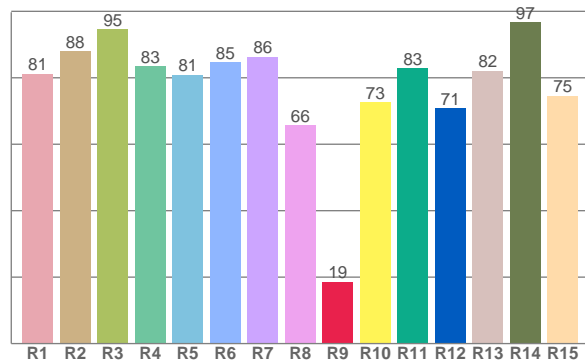




TM30: 81.9



CRI: 83.1 (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
81.2	87.9	94.6	83.4	80.9	84.6	86.3	65.6	18.7	72.7	82.9	70.7	82.1	96.6	74.6

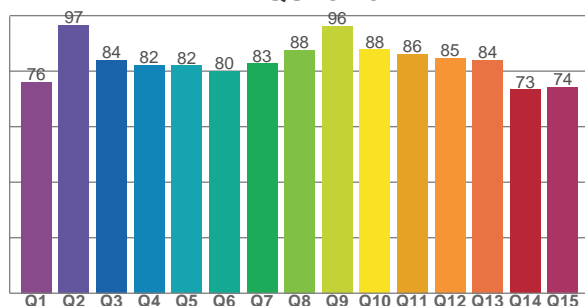
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.7	80.1	73.5	77.7	85.6	86.4	76.7	88.5	84.6	83.7	81.3	82.9	87.9	83.4	79.3	81.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76.1	96.7	84.1	82.2	82.1	80.1	82.8	87.5	96.3	87.8	86.2	84.7	84.1	73.4	74.3

CQS: 82.5



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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
2986 K	83.1	18.7	81.9	99.1	82.5	0.441	0.410	0.251	0.350	0.0018

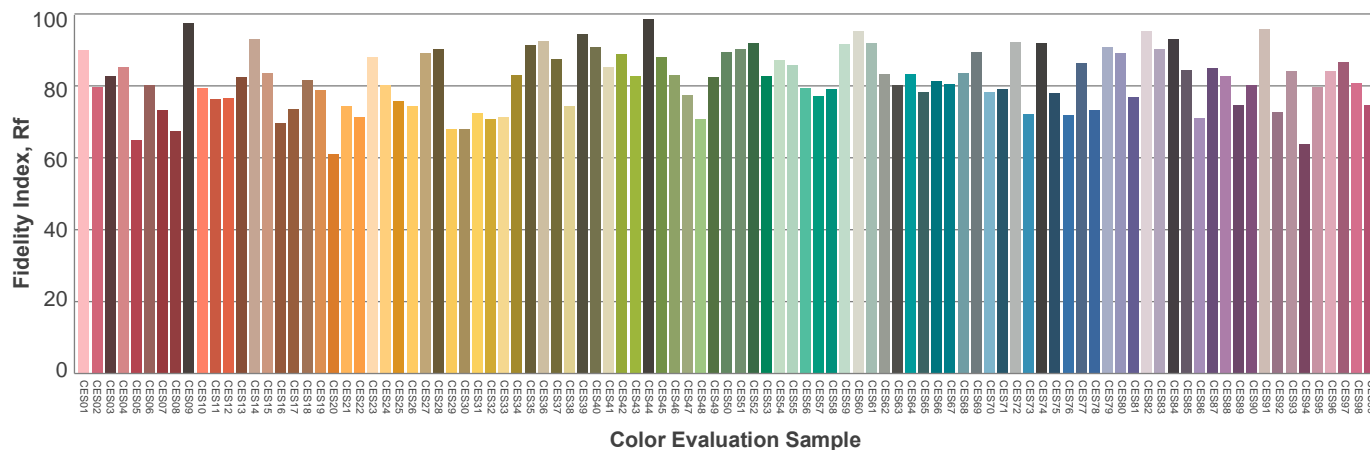
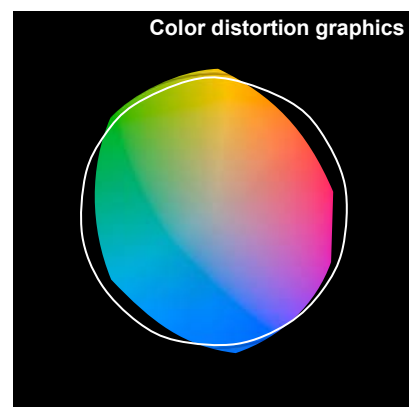
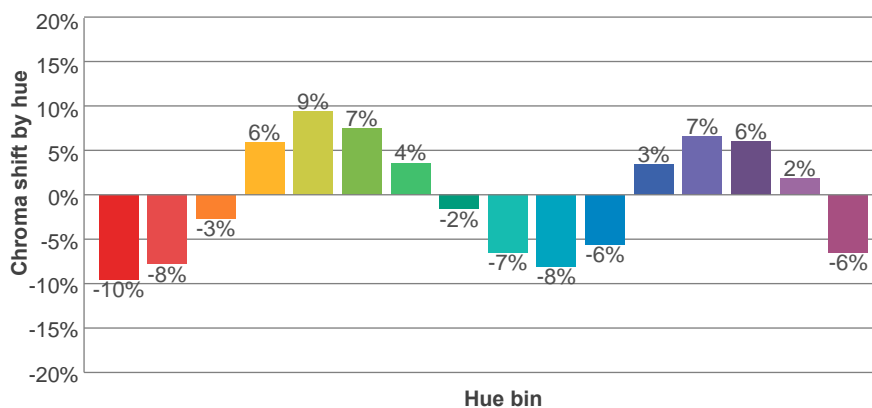
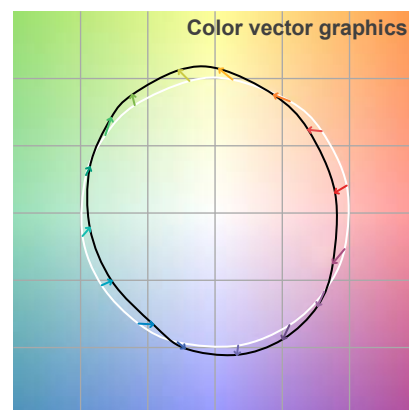
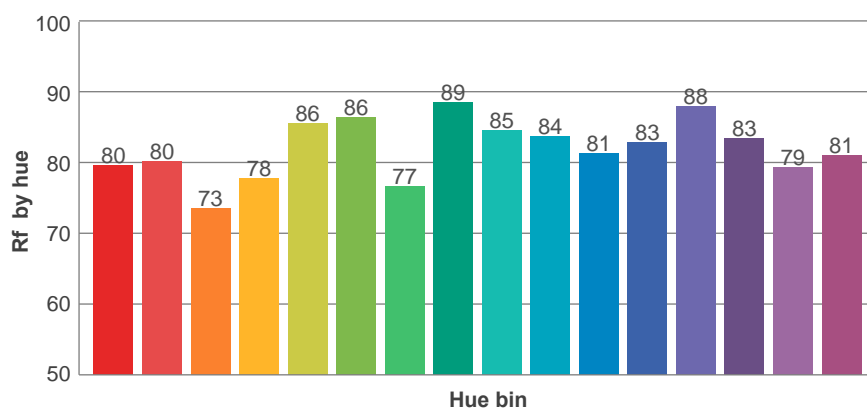
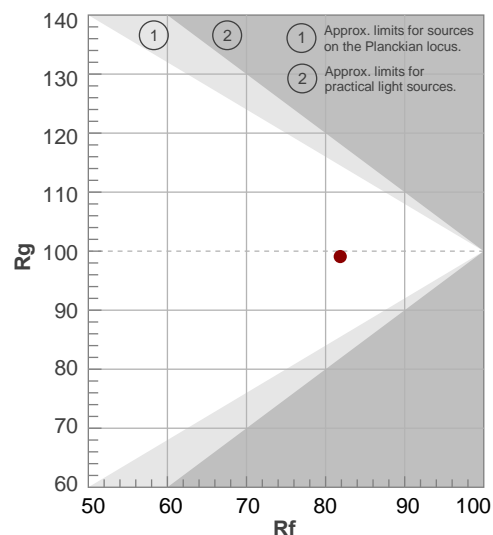
Rf 81.9

Fidelity index Rf

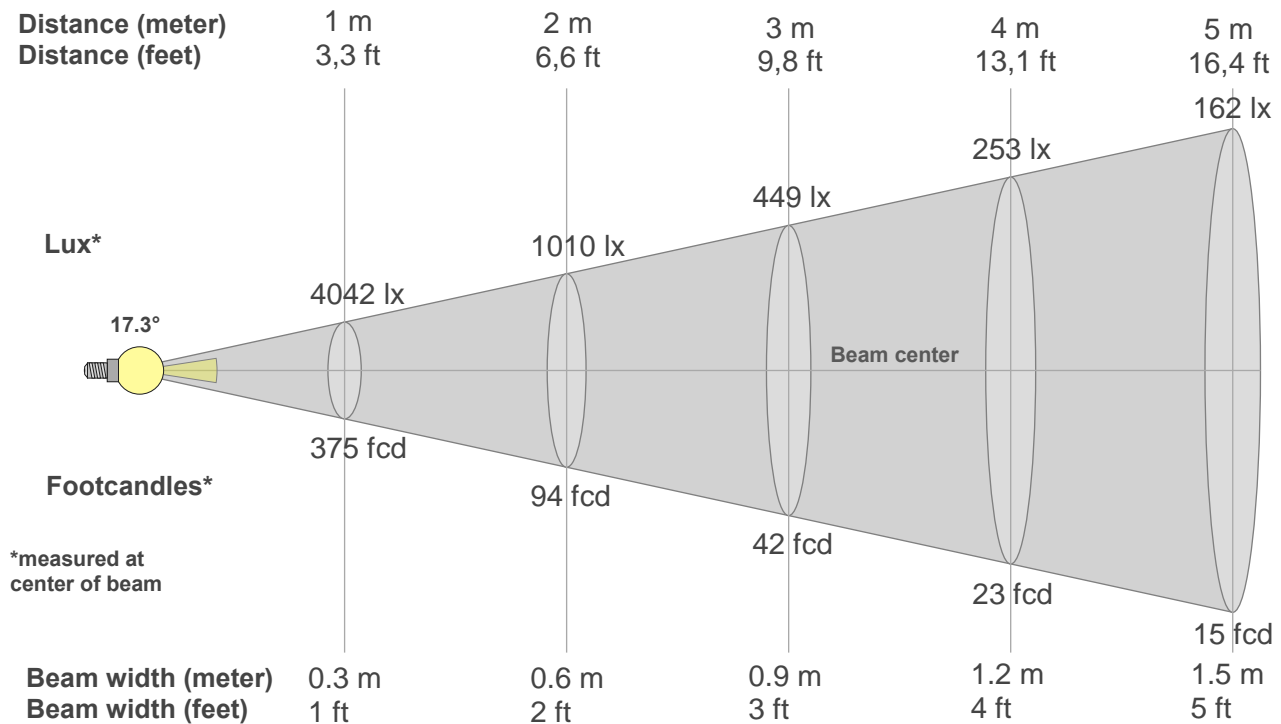
Rg 99.1

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	80	-10%	-3%
2	80	-8%	6%
3	73	-3%	12%
4	78	6%	11%
5	86	9%	6%
6	86	7%	-3%
7	77	4%	-13%
8	89	-2%	-6%
9	85	-7%	-5%
10	84	-8%	1%
11	81	-6%	9%
12	83	3%	6%
13	88	7%	-2%
14	83	6%	-10%
15	79	2%	-11%
16	81	-6%	-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
4042lx	1010lx	449lx	253lx	162lx	112lx	82lx	63lx	50lx	40lx	33lx	28lx	24lx	21lx	18lx	16lx	14lx	12lx	11lx	10lx
375.5fcd	93.9fcd	41.7fcd	23.5fcd	15fcd	10.4fcd	7.7fcd	5.9fcd	4.6fcd	3.8fcd	3.1fcd	2.6fcd	2.2fcd	1.9fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd	1fcd	0.9fcd

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°
4042	3732	3281	2794	2243	1691	1363	1060	818	653	488	379	272	191	133	79	67	55	46	37
100%	92%	81%	69%	55%	42%	34%	26%	20%	16%	12%	9%	7%	5%	3%	2%	2%	1%	1%	1%

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°
4042	3909	3338	2767	2242	1719	1324	1055	791	635	479	355	253	159	116	73	53	45	36	29
100%	97%	83%	68%	55%	43%	33%	26%	20%	16%	12%	9%	6%	4%	3%	2%	1%	1%	1%	1%

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°
4042	3719	3396	2868	2262	1727	1384	1041	823	634	470	354	238	171	109	68	57	45	37	28
100%	92%	84%	71%	56%	43%	34%	26%	20%	16%	12%	9%	6%	4%	3%	2%	1%	1%	1%	1%

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°
4042	3855	3612	2949	2286	1807	1423	1074	864	654	507	381	269	192	114	85	66	51	44	36
100%	95%	89%	73%	57%	45%	35%	27%	21%	16%	13%	9%	7%	5%	3%	2%	2%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17.3°	42.2°	57°	99.5%	98.7%