

Light efficiency:

**67 Lumen/Watt**

Light quality:

**CRI: 82.4**

Color temperature:

**2993 K**

**Output: 855 lm**

**Peak: 902 cd**

**Power: 12.8 W**

**PF: 0.98**

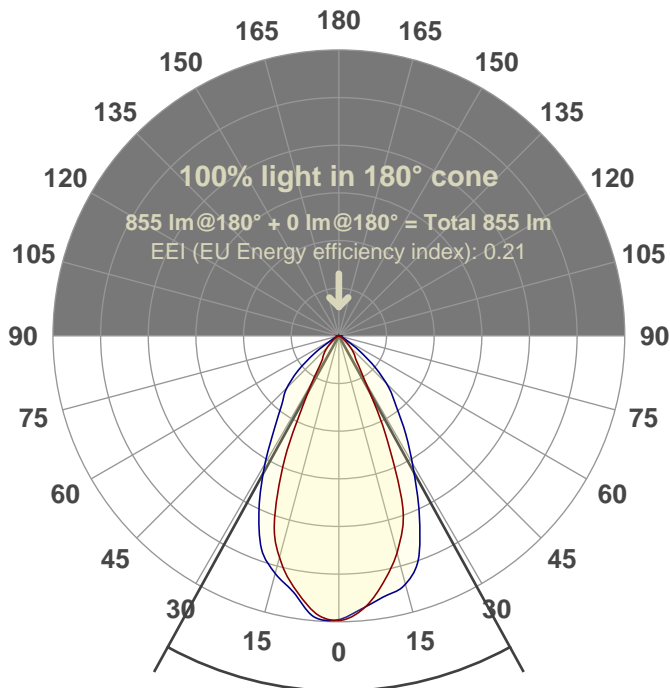


Product name:

**137420-XTM19-13LM-30K-83-SA60-120-  
ELV-MC-900300MC-900320**

Date and time:

**3/19/2018 9:13:57 AM**



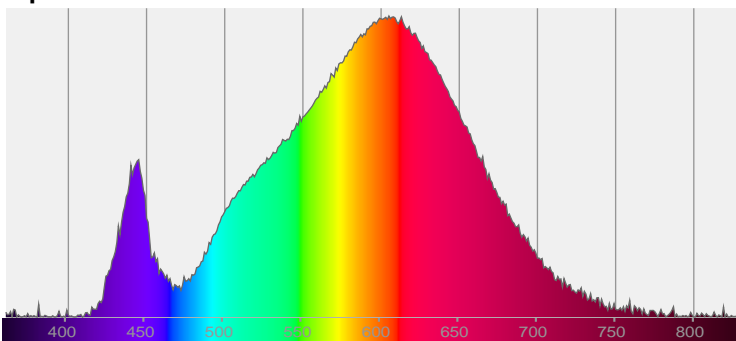
Beam angle

**57.6°**

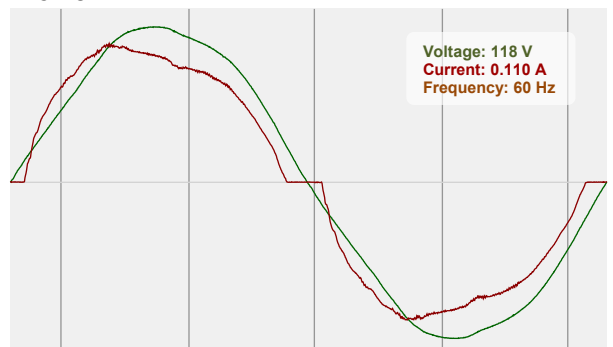


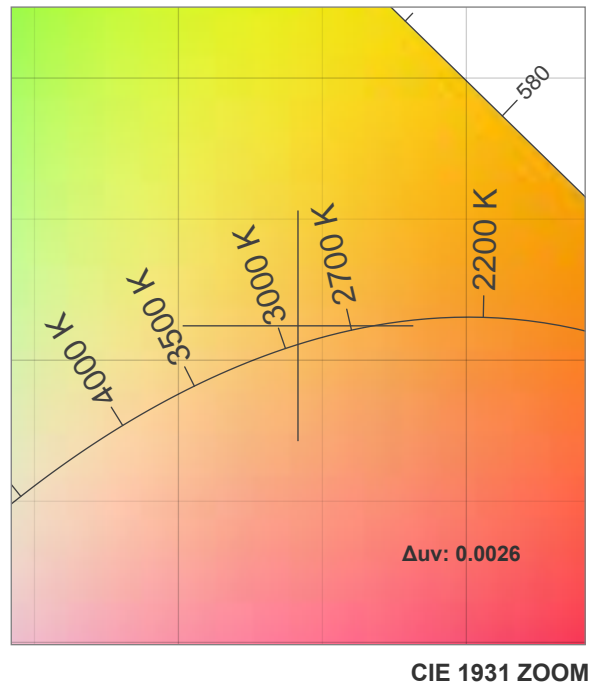
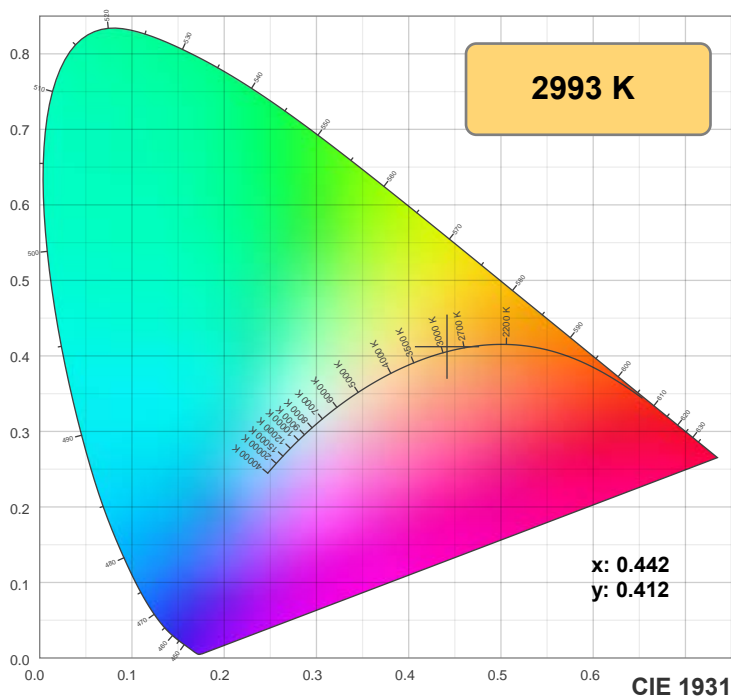
CIE 1931  
x: 0.442  
y: 0.412

Spectra

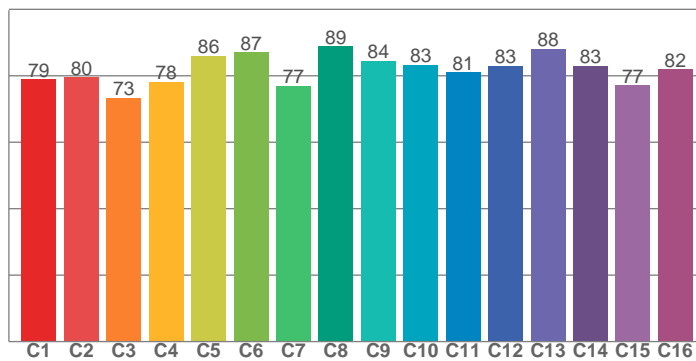


Power

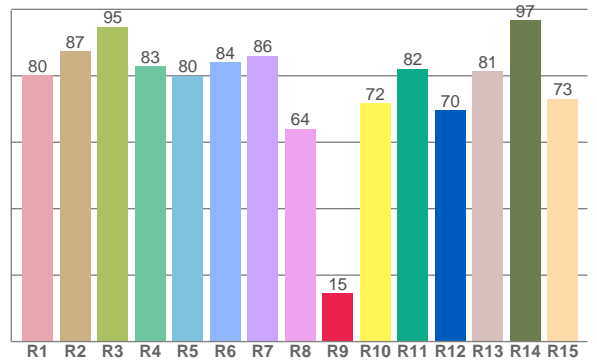




TM30: 81.7



CRI: 82.4 (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
80.2	87.4	94.7	82.8	80.0	84.0	86.0	64.0	14.5	71.7	82.2	69.5	81.3	96.7	73.1

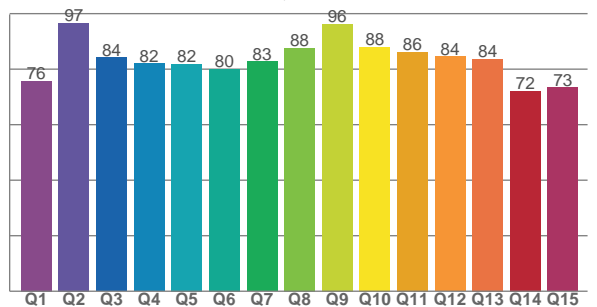
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
78.9	79.6	73.4	78.1	86.0	87.1	77.0	88.8	84.5	83.4	81.1	83.0	88.0	83.0	77.2	81.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
75.7	96.6	84.2	82.0	81.8	80.0	82.8	87.7	96.3	87.9	86.2	84.5	83.7	72.1	73.4

CQS: 82.2



## 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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	$\Delta uv$
2993 K	82.4	14.5	81.7	98.5	82.2	0.442	0.412	0.250	0.350	0.0026

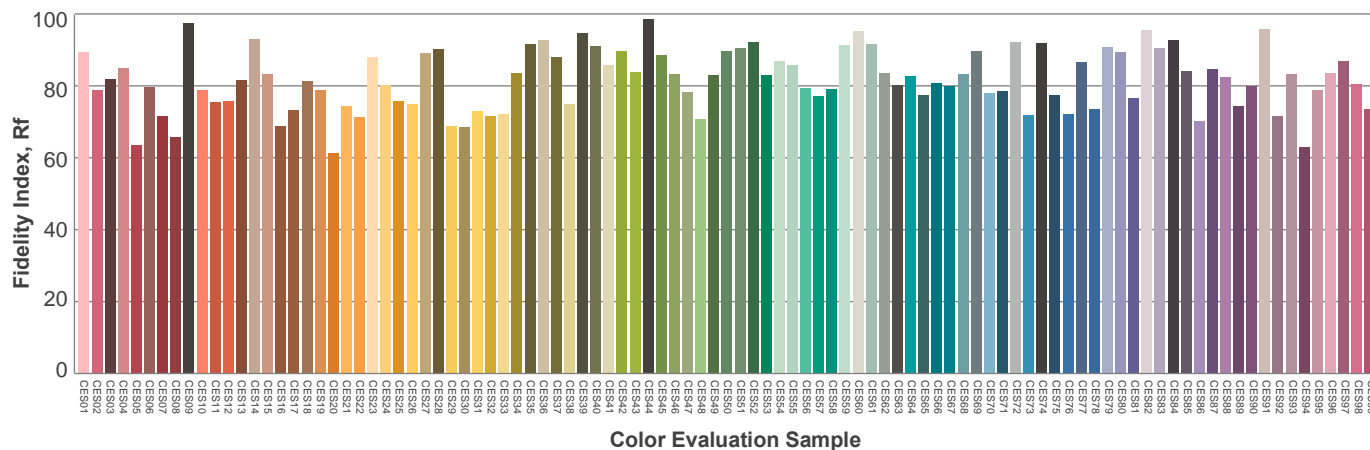
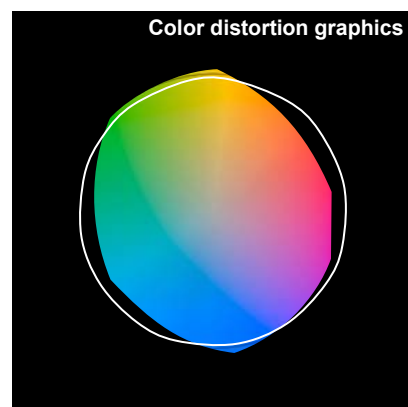
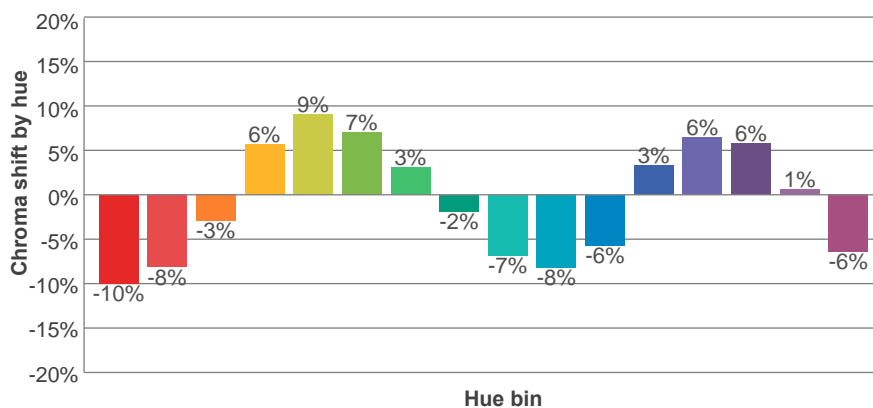
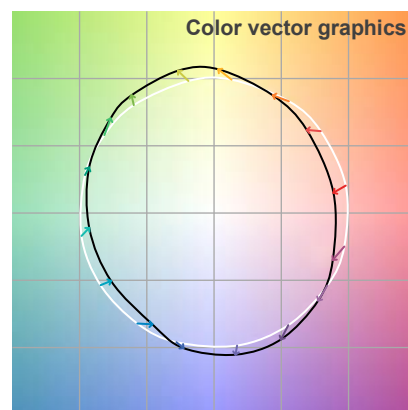
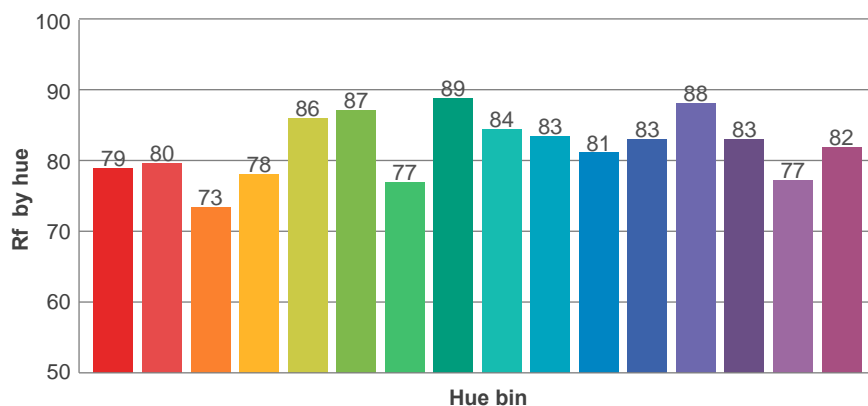
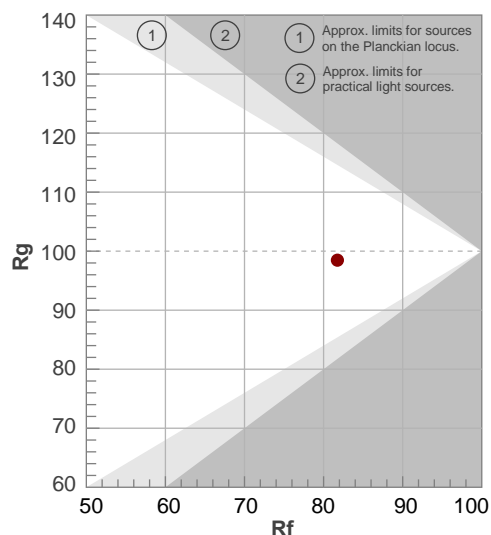
**Rf 81.7**

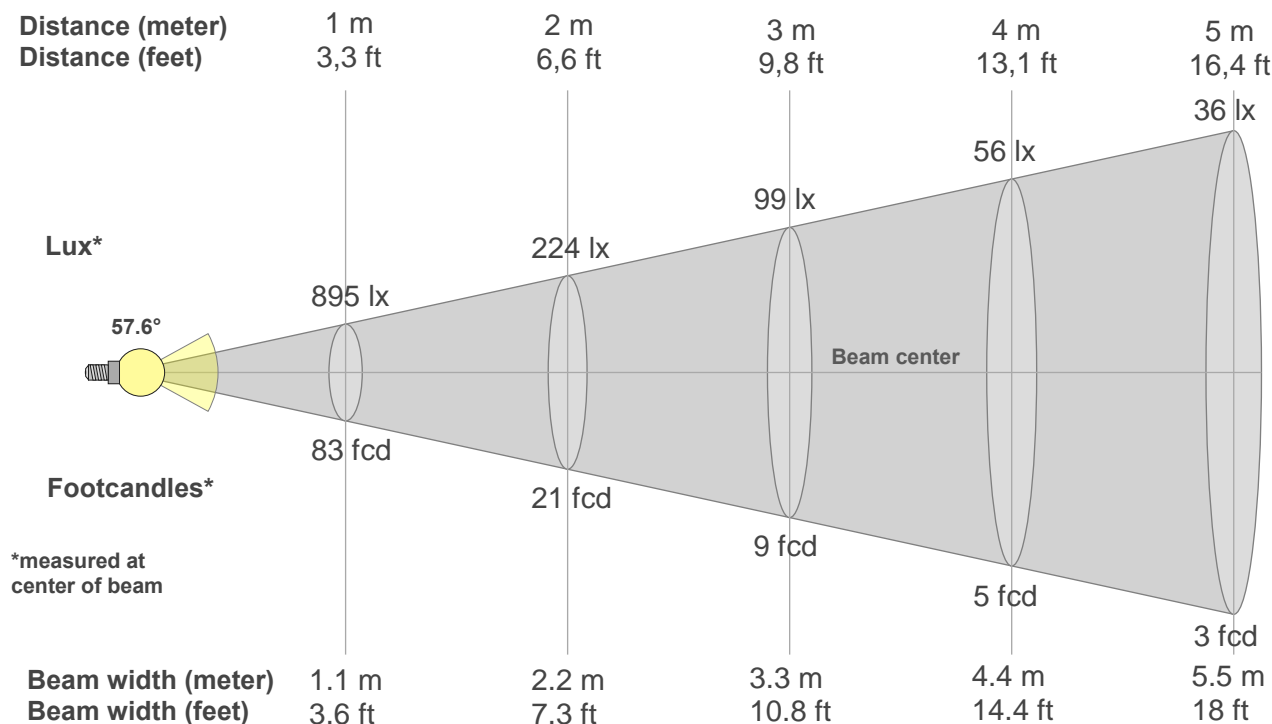
Fidelity index Rf

**Rg 98.5**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	-10%	-3%
2	80	-8%	7%
3	73	-3%	12%
4	78	6%	11%
5	86	9%	6%
6	87	7%	-3%
7	77	3%	-13%
8	89	-2%	-6%
9	84	-7%	-5%
10	83	-8%	2%
11	81	-6%	10%
12	83	3%	6%
13	88	6%	-2%
14	83	6%	-10%
15	77	1%	-13%
16	82	-6%	-11%





### 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
895lx	224lx	99lx	56lx	36lx	25lx	18lx	14lx	11lx	9lx	7lx	6lx	5lx	5lx	4lx	3lx	3lx	3lx	2lx	2lx
83.2fcd	20.8fcd	9.2fcd	5.2fcd	3.3fcd	2.3fcd	1.7fcd	1.3fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd

### 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°
895	888	872	854	824	794	761	725	687	637	588	504	409	320	246	172	138	112	92	84
100%	99%	97%	95%	92%	89%	85%	81%	77%	71%	66%	56%	46%	36%	27%	19%	15%	13%	10%	9%

### 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°
895	883	870	858	846	835	827	818	797	771	737	681	625	570	516	465	423	381	344	308
100%	99%	97%	96%	95%	93%	92%	91%	89%	86%	82%	76%	70%	64%	58%	52%	47%	43%	38%	34%

### 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°
895	890	886	861	835	807	775	743	697	651	583	498	413	323	233	175	134	99	90	81
100%	99%	99%	96%	93%	90%	87%	83%	78%	73%	65%	56%	46%	36%	26%	20%	15%	11%	10%	9%

### 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°
895	894	892	878	851	823	804	786	764	740	715	667	620	570	518	467	421	374	338	308
100%	100%	100%	98%	95%	92%	90%	88%	85%	83%	80%	75%	69%	64%	58%	52%	47%	42%	38%	34%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
57.6°	91.5°	115.8°	98.0%	89.1%