

**Light efficiency:**

**46 Lumen/Watt**

**Light quality:**

**CRI: 82.9**

**Color temperature:**

**2985 K**

**Output: 587 lm**

**Peak: 1176 cd**

**Power: 12.9 W**

**PF: 0.98**

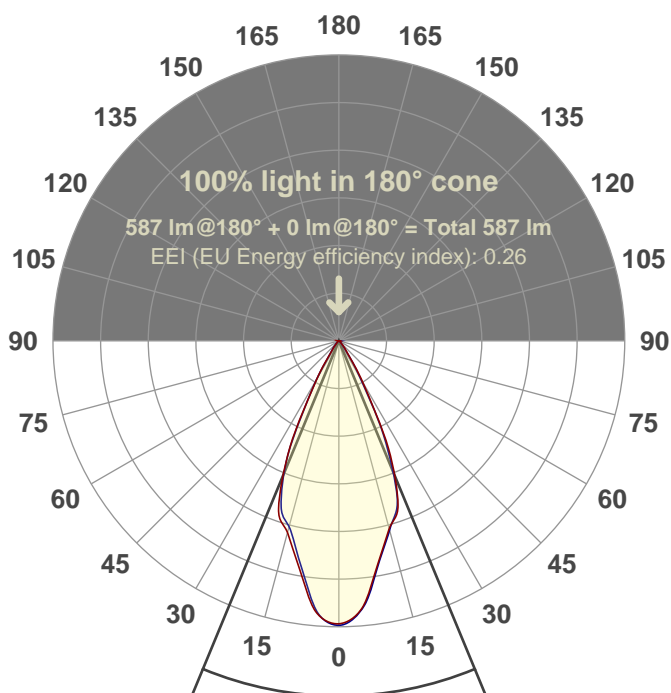


**Product name:**

**137420-XTM19-13LM-30K-83-SA60-120-  
ELV-MC-900300MC-900310**

**Date and time:**

**3/19/2018 9:19:58 AM**



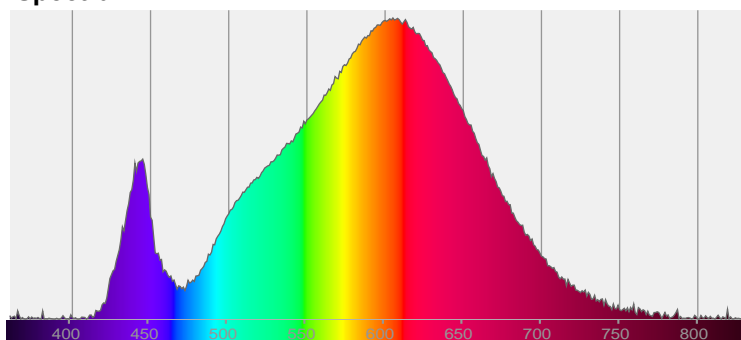
**Beam angle**

**45°**

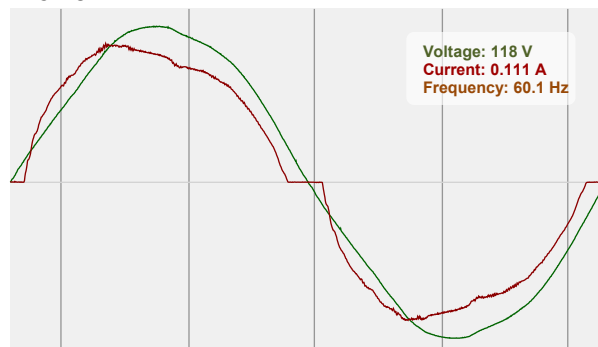


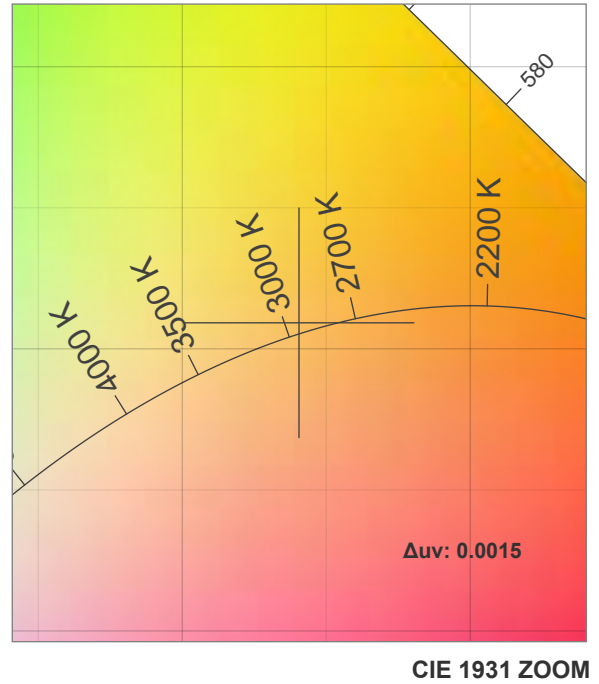
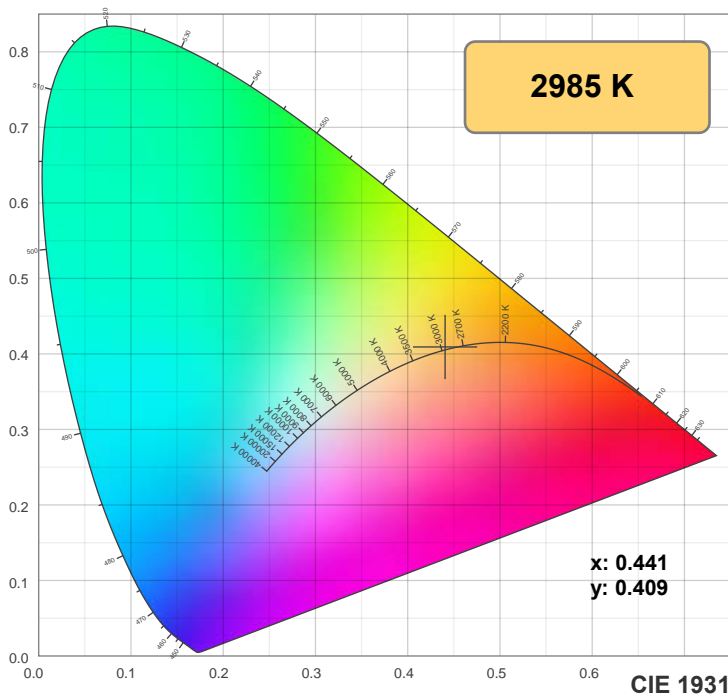
**CIE 1931  
x: 0.441  
y: 0.409**

**Spectra**

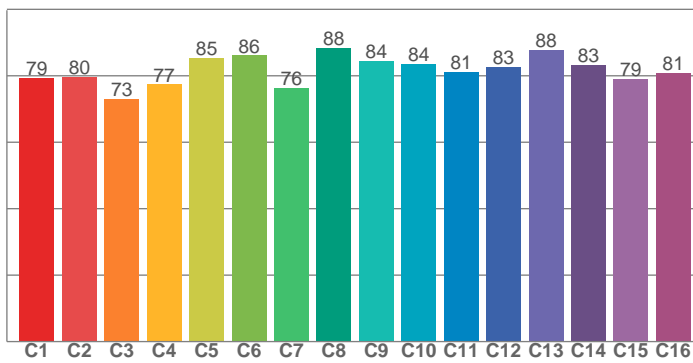


**Power**

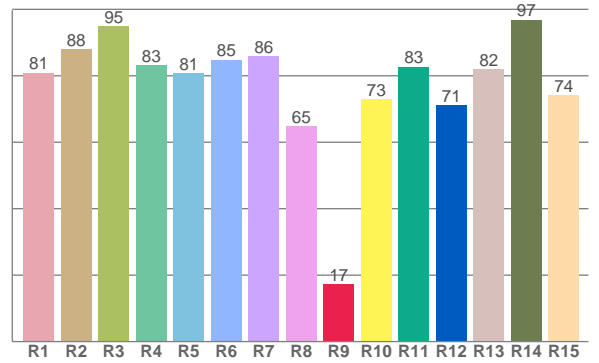




TM30: 81.6



CRI: 82.9 (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
81.0	87.9	94.9	83.2	80.8	84.8	85.9	64.9	17.2	72.9	82.8	71.0	82.0	96.8	74.2

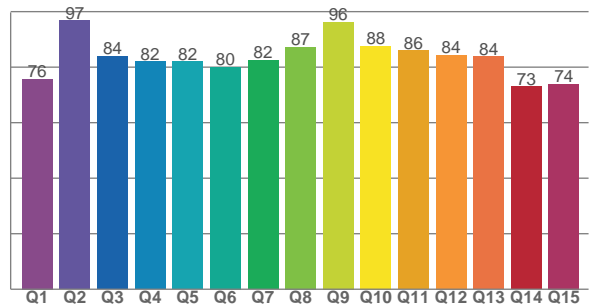
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.4	79.7	73.0	77.4	85.4	86.2	76.4	88.3	84.5	83.6	81.2	82.8	87.9	83.2	79.0	80.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
75.8	96.7	83.9	82.1	82.0	80.0	82.5	87.2	96.3	87.7	86.0	84.4	83.7	73.0	73.9

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	$\Delta uv$
2985 K	82.9	17.2	81.6	99.1	82.2	0.441	0.409	0.251	0.349	0.0015

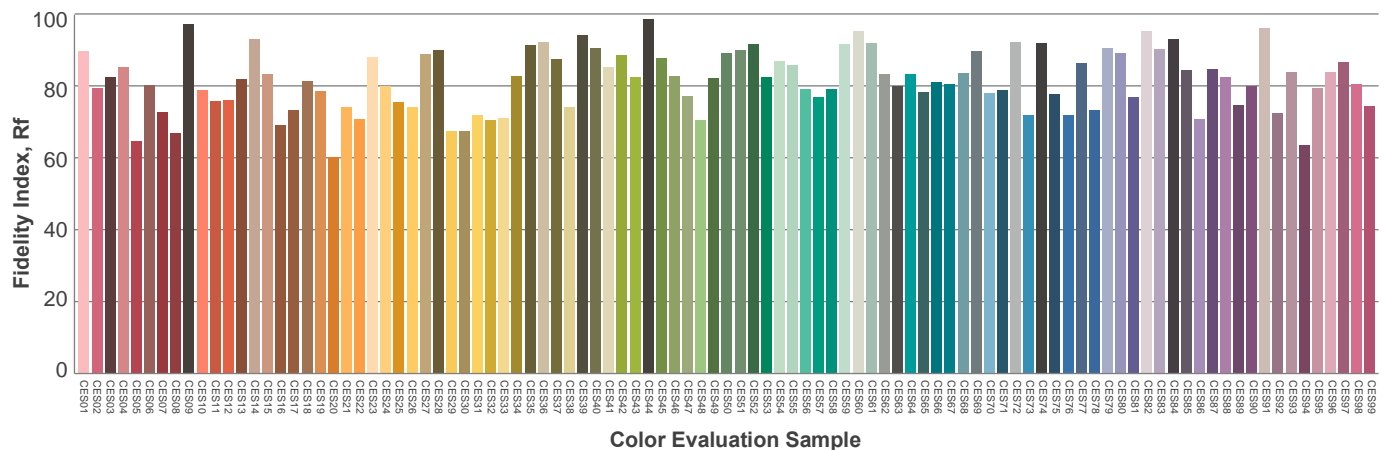
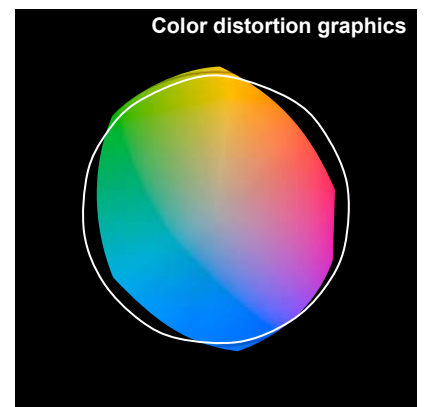
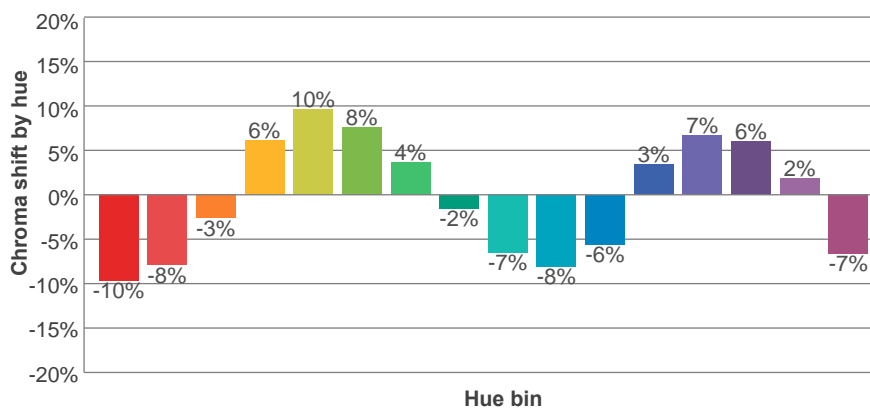
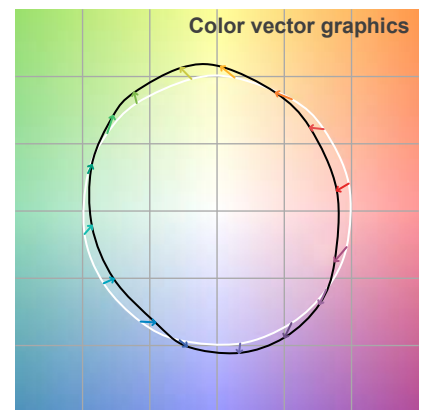
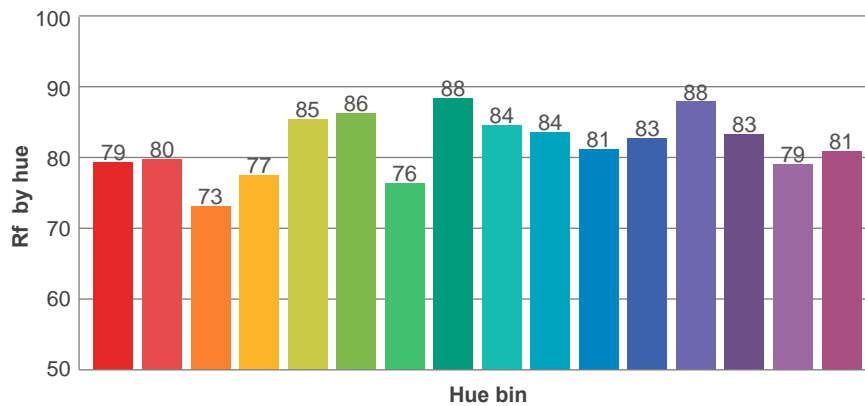
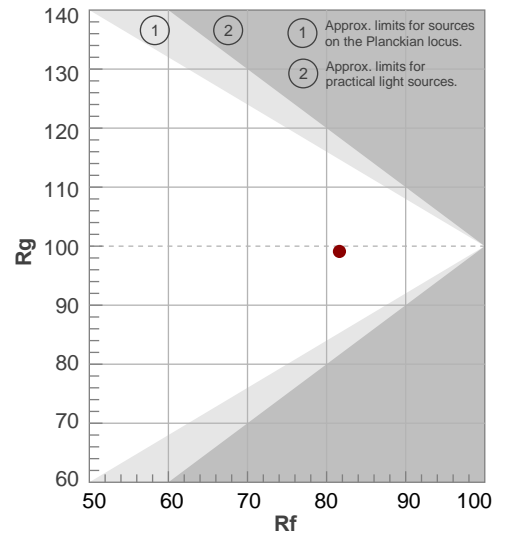
**Rf 81.6**

Fidelity index Rf

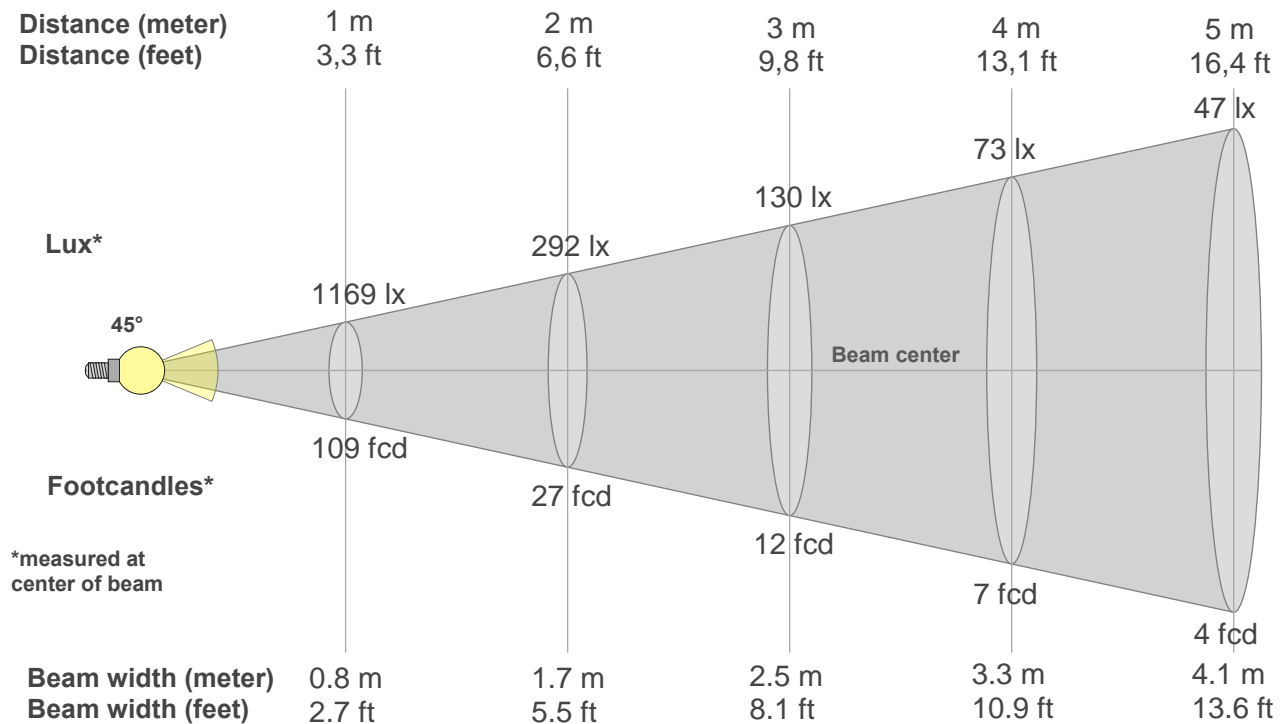
**Rg 99.1**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	-10%	-3%
2	80	-8%	7%
3	73	-3%	13%
4	77	6%	11%
5	85	10%	6%
6	86	8%	-3%
7	76	4%	-13%
8	88	-2%	-6%
9	84	-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	-7%	-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
1169lx	292lx	130lx	73lx	47lx	32lx	24lx	18lx	14lx	12lx	10lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx
108.6fcd	27.2fcd	12.1fcd	6.8fcd	4.3fcd	3fcd	2.2fcd	1.7fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.6fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd

### 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°
1169	1145	1121	1073	1003	934	882	830	787	753	713	619	525	419	304	197	141	85	57	42
100%	98%	96%	92%	86%	80%	75%	71%	67%	64%	61%	53%	45%	36%	26%	17%	12%	7%	5%	4%

### 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°
1169	1153	1122	1082	1012	942	886	836	788	744	700	608	503	396	288	179	124	78	45	33
100%	99%	96%	93%	87%	81%	76%	72%	67%	64%	60%	52%	43%	34%	25%	15%	11%	7%	4%	3%

### 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°
1169	1151	1132	1086	1018	951	899	846	804	768	725	623	520	407	290	183	128	73	47	34
100%	98%	97%	93%	87%	81%	77%	72%	69%	66%	62%	53%	44%	35%	25%	16%	11%	6%	4%	3%

### 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°
1169	1152	1134	1071	999	932	874	816	780	746	691	604	518	399	279	186	125	64	50	37
100%	98%	97%	92%	85%	80%	75%	70%	67%	64%	59%	52%	44%	34%	24%	16%	11%	5%	4%	3%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
45°	64.9°	78.5°	99.4%	98.4%