

**Light efficiency:**

**56 Lumen/Watt**

**Light quality:**

**CRI: 82.6**

**Color temperature:**

**2996 K**

**Output: 726 lm**

**Peak: 769 cd**

**Power: 12.9 W**

**PF: 0.98**

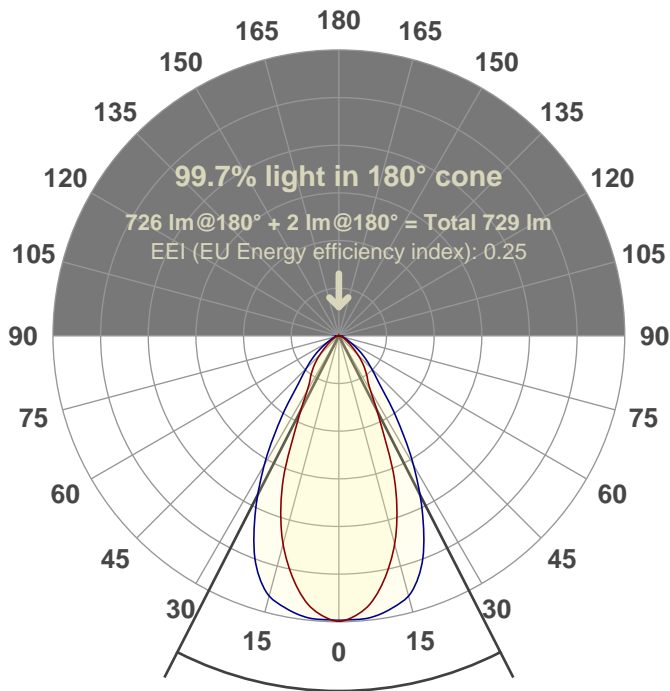


**Product name:**

**137420-XTM19-13LM-30K-83-DA40-120-ELV-MC-900300MC-900320**

**Date and time:**

**3/19/2018 8:50:35 AM**



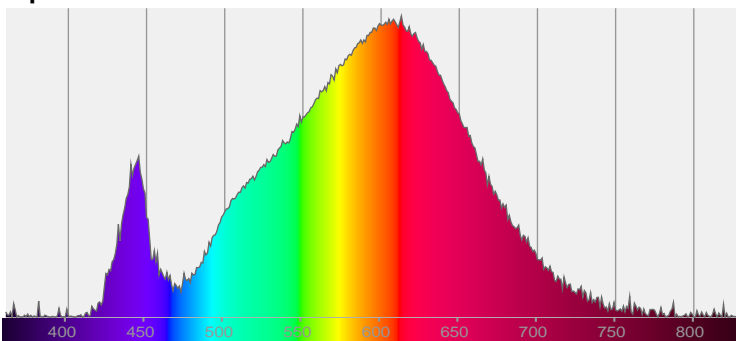
**Beam angle**

**54.1°**

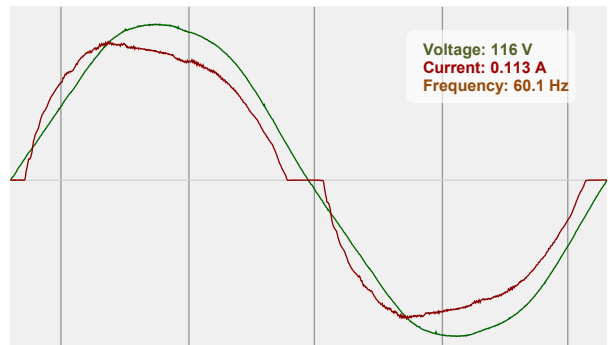


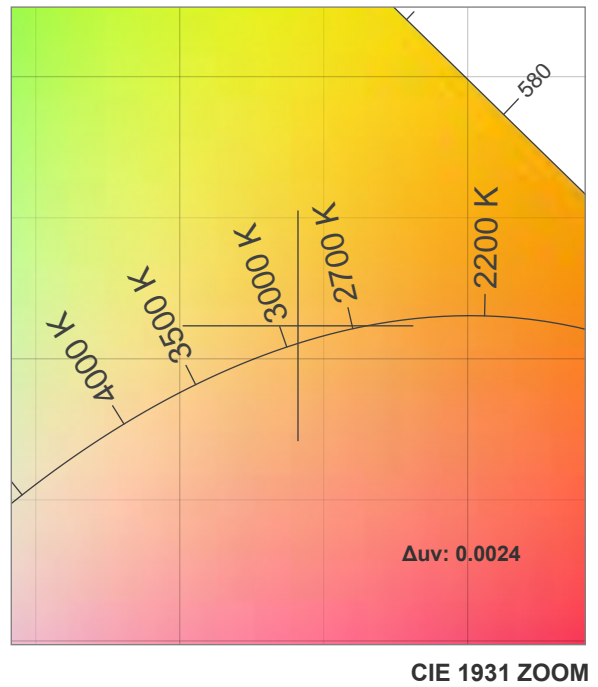
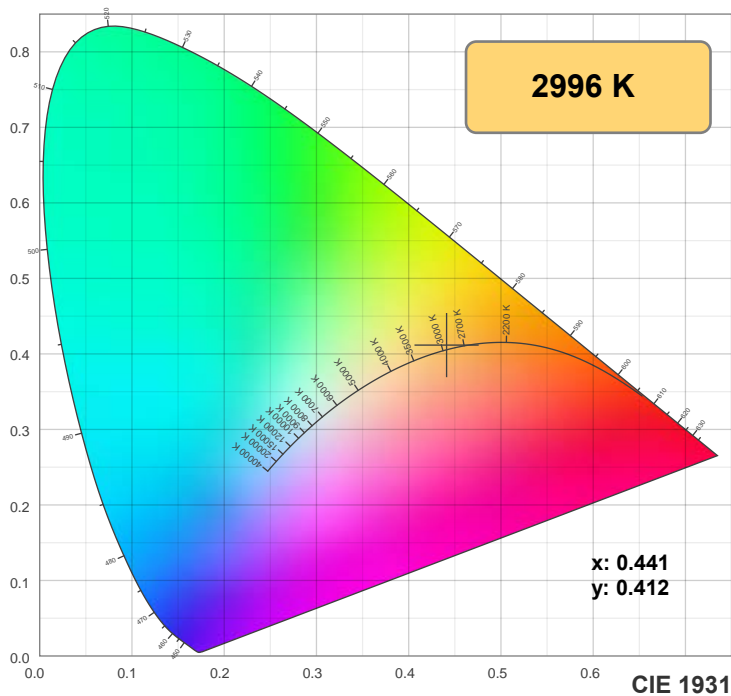
**CIE 1931**  
**x: 0.441**  
**y: 0.412**

**Spectra**

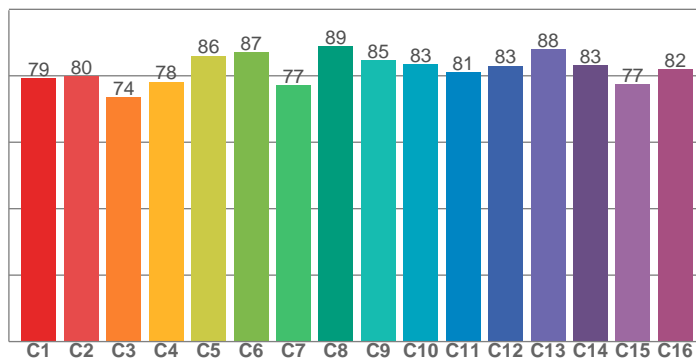


**Power**

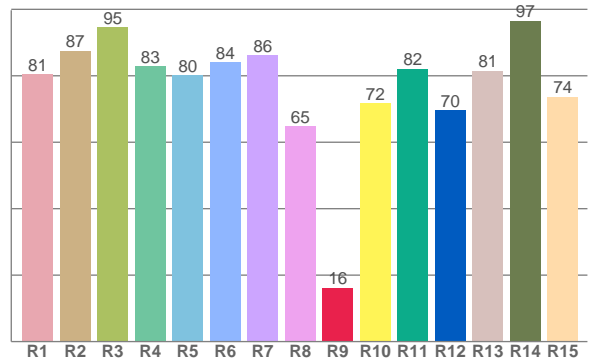




TM30: 81.8



CRI: 82.6 (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
80.5	87.5	94.5	82.9	80.2	84.1	86.2	64.8	16.2	71.8	82.1	69.6	81.5	96.6	73.7

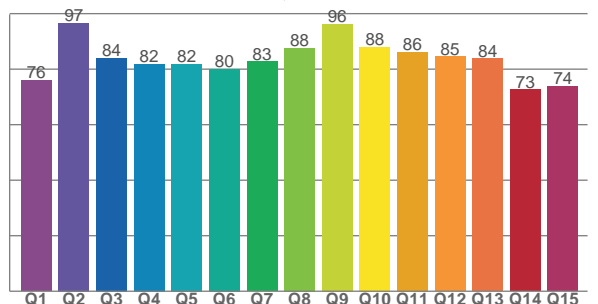
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.2	79.9	73.5	78.1	86.0	87.0	77.2	88.8	84.6	83.4	81.0	82.9	88.0	83.1	77.4	82.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76.0	96.6	84.1	81.9	81.8	80.1	82.8	87.7	96.3	87.9	86.1	84.5	83.8	72.6	73.8

CQS: 82.3



## 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	$\Delta uv$
2996 K	82.6	16.2	81.8	98.6	82.3	0.441	0.412	0.250	0.350	0.0024

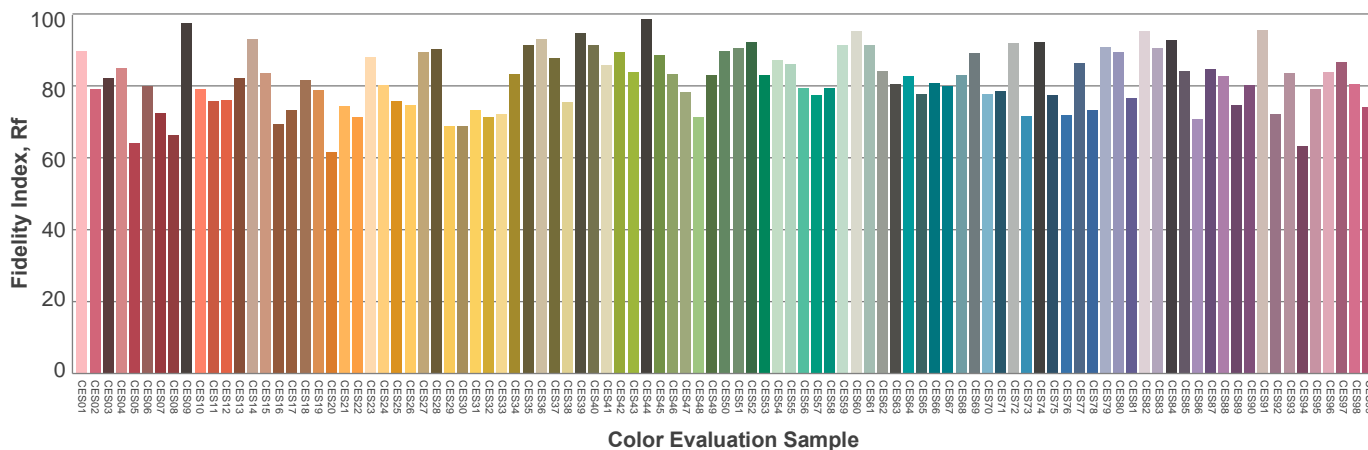
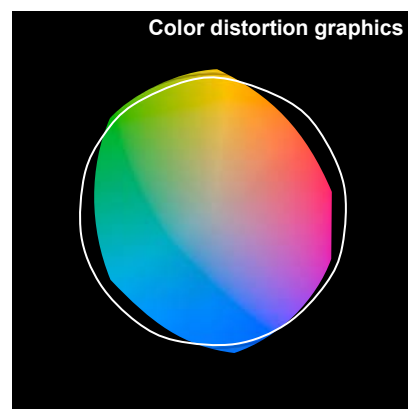
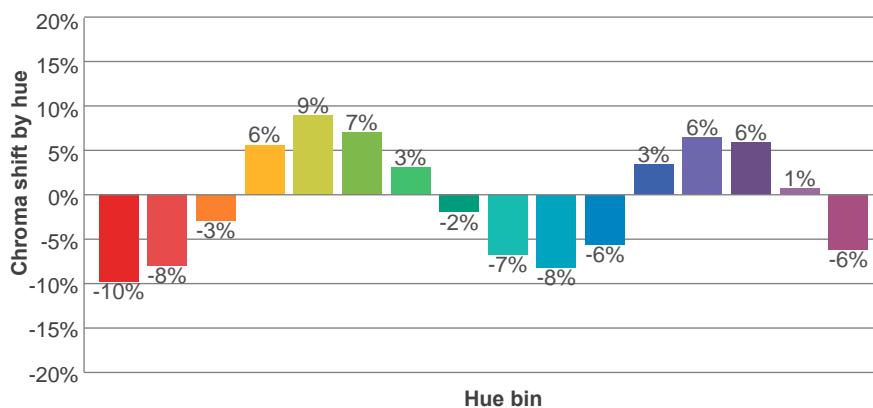
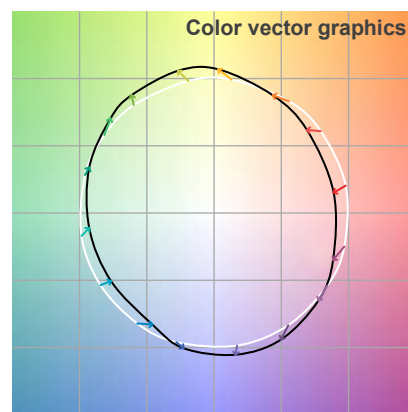
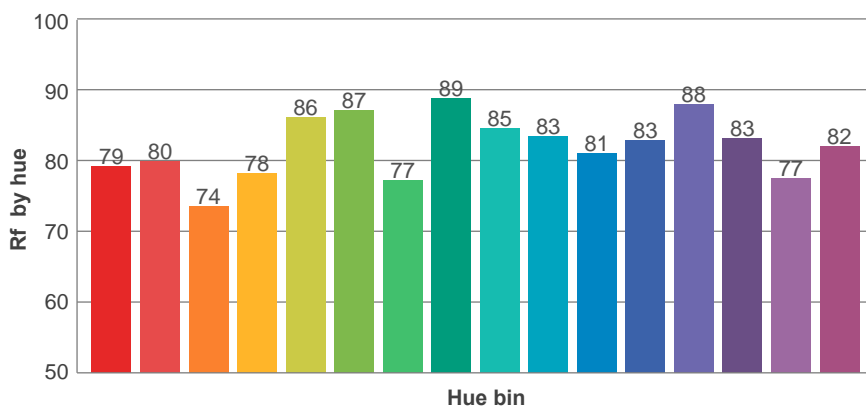
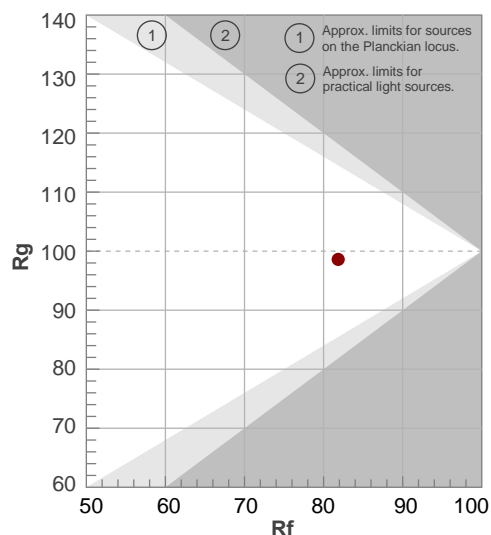
**Rf 81.8**

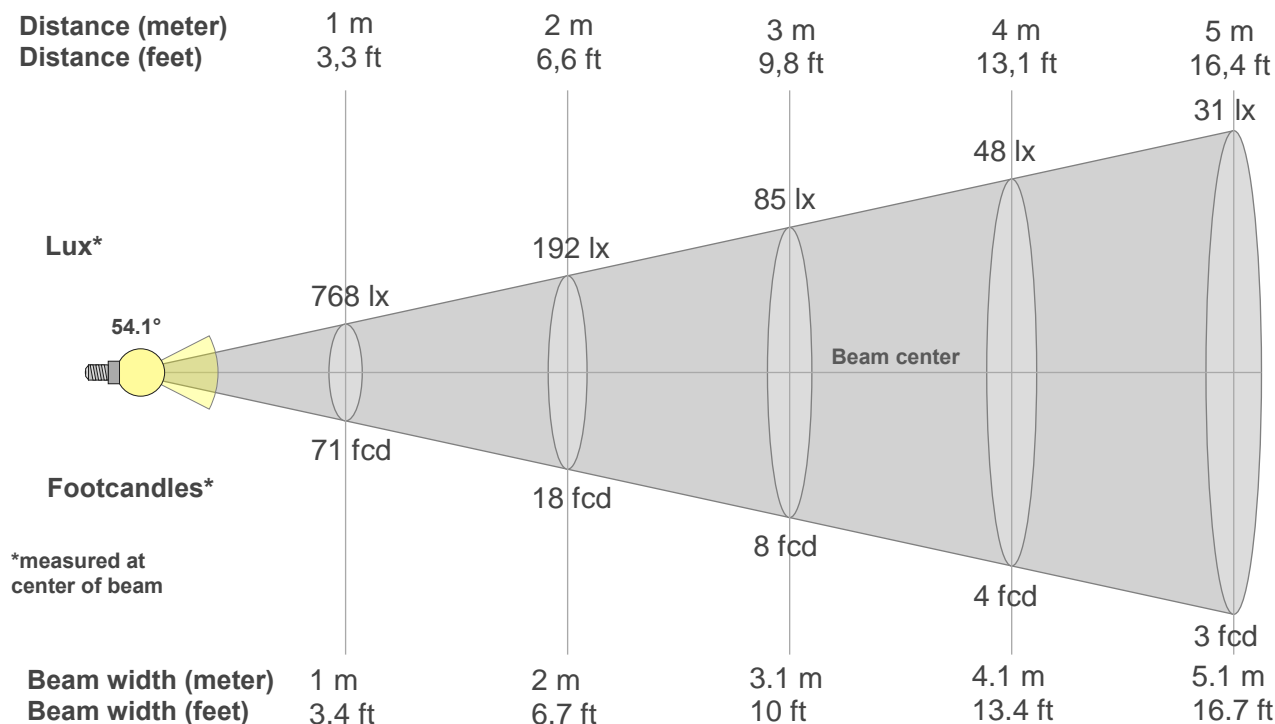
Fidelity index Rf

**Rg 98.6**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	-10%	-3%
2	80	-8%	6%
3	74	-3%	12%
4	78	6%	11%
5	86	9%	6%
6	87	7%	-3%
7	77	3%	-13%
8	89	-2%	-6%
9	85	-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
768lx	192lx	85lx	48lx	31lx	21lx	16lx	12lx	9lx	8lx	6lx	5lx	5lx	4lx	3lx	3lx	3lx	2lx	2lx	2lx
71.3fcd	17.8fcd	7.9fcd	4.5fcd	2.9fcd	2fcd	1.5fcd	1.1fcd	0.9fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	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°
768	766	751	736	709	677	643	601	559	506	450	389	320	252	214	178	153	140	127	115
100%	100%	98%	96%	92%	88%	84%	78%	73%	66%	59%	51%	42%	33%	28%	23%	20%	18%	17%	15%

### 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°
768	769	768	768	761	755	745	732	718	686	654	611	561	511	457	404	352	300	253	214
100%	100%	100%	100%	99%	98%	97%	95%	94%	89%	85%	80%	73%	67%	60%	53%	46%	39%	33%	28%

### 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°
768	766	751	736	709	677	643	601	559	506	450	389	320	252	214	178	153	140	127	115
100%	100%	98%	96%	92%	88%	84%	78%	73%	66%	59%	51%	42%	33%	28%	23%	20%	18%	17%	15%

### 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°
768	769	768	768	761	755	745	732	718	686	654	611	561	511	457	404	352	300	253	214
100%	100%	100%	100%	99%	98%	97%	95%	94%	89%	85%	80%	73%	67%	60%	53%	46%	39%	33%	28%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
54.1°	97.3°	129.7°	95.8%	85.4%