

Light efficiency:

56 Lumen/Watt

Light quality:

CRI: 82.6

Color temperature:

2990 K

Output: 716 lm

Peak: 840 cd

Power: 12.9 W

PF: 0.98

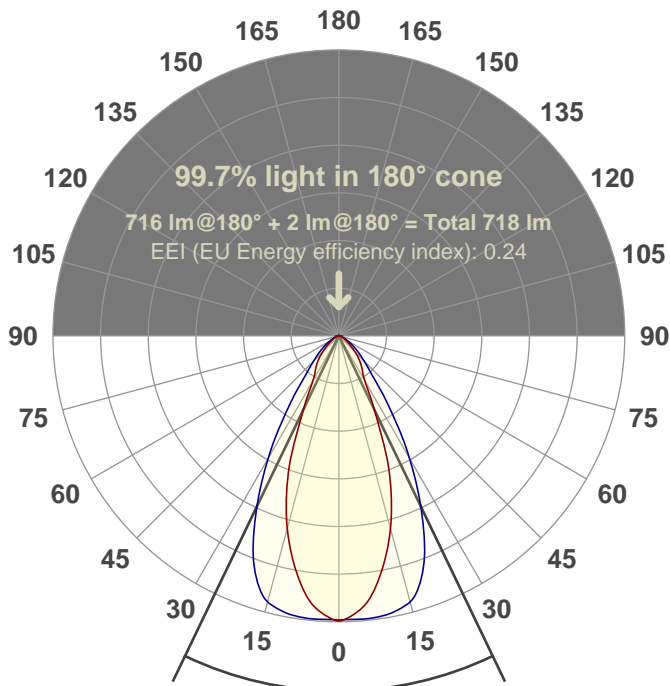


Product name:

137420-XTM19-13LM-30K-83-DA20-120-ELV-MC-900300MC-900320

Date and time:

3/19/2018 8:38:39 AM



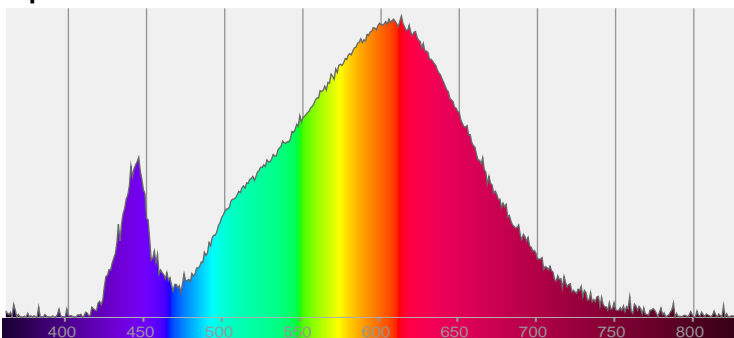
Beam angle

51.3°

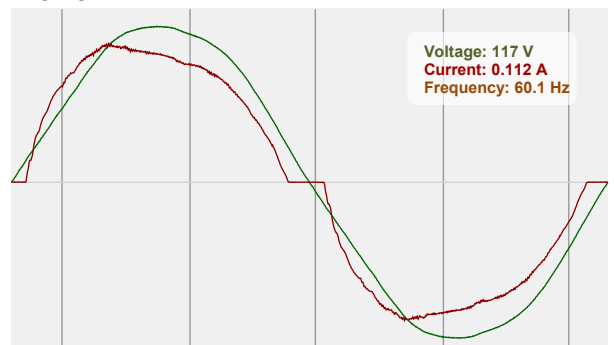


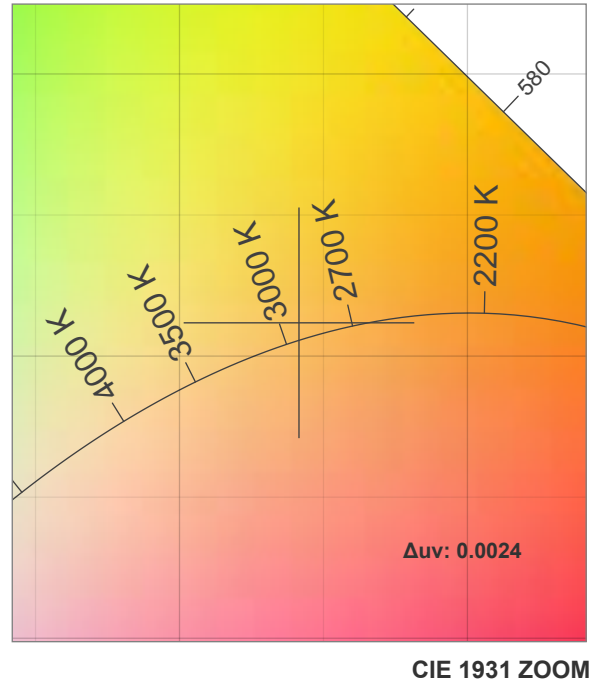
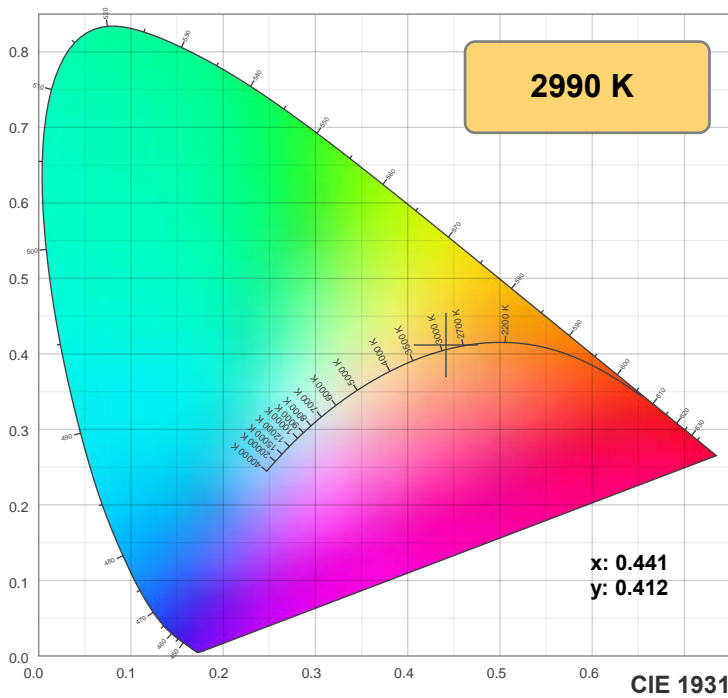
CIE 1931
x: 0.441
y: 0.412

Spectra

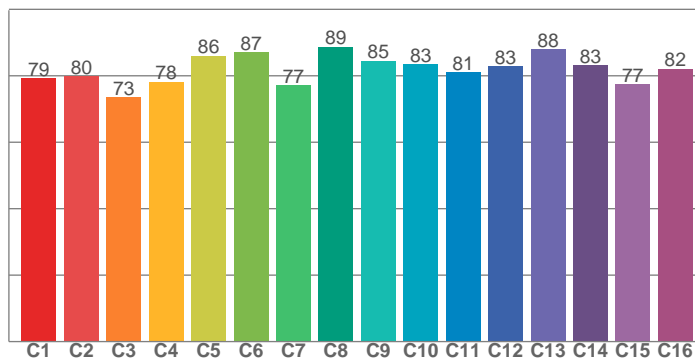


Power

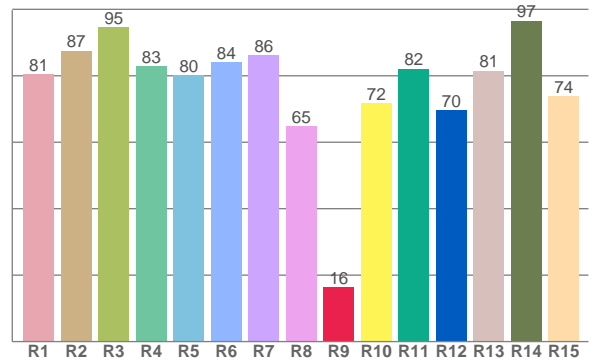




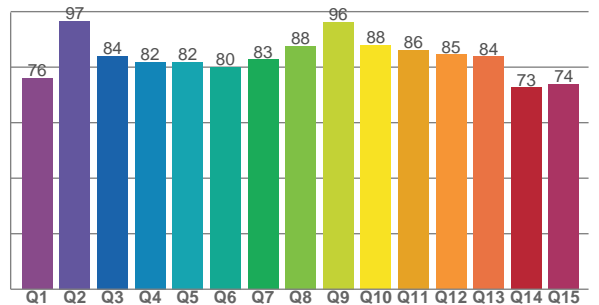
TM30: 81.8



CRI: 82.6 (R1-R8)



CQS: 82.3



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	16.3	71.8	82.1	69.6	81.5	96.6	73.8

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	77.1	88.8	84.5	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	80.0	82.7	87.7	96.3	87.9	86.1	84.5	83.8	72.7	73.8

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
2990 K	82.6	16.3	81.8	98.6	82.3	0.441	0.412	0.250	0.350	0.0024

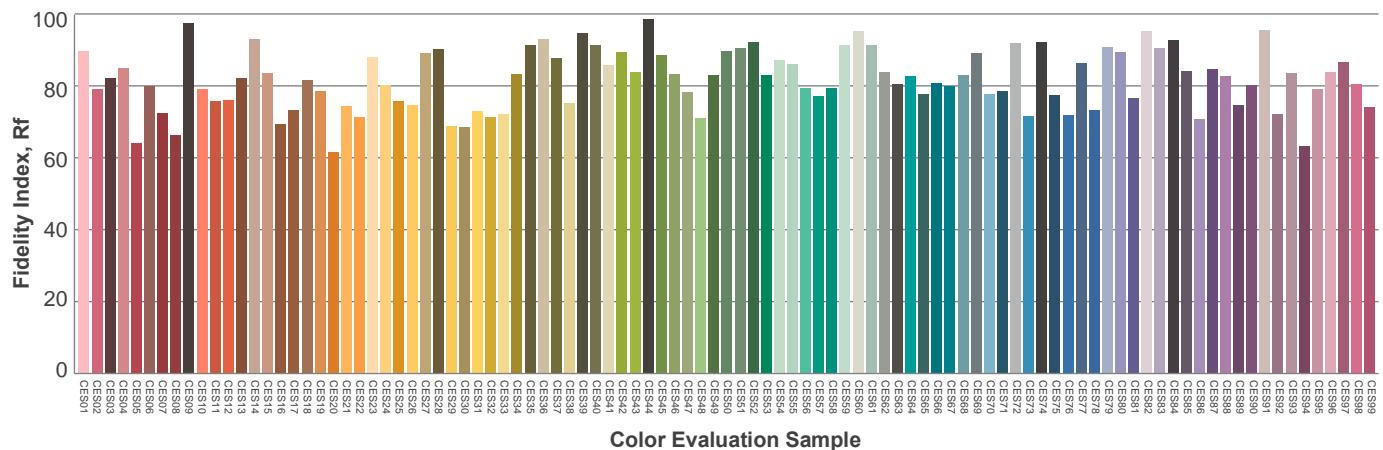
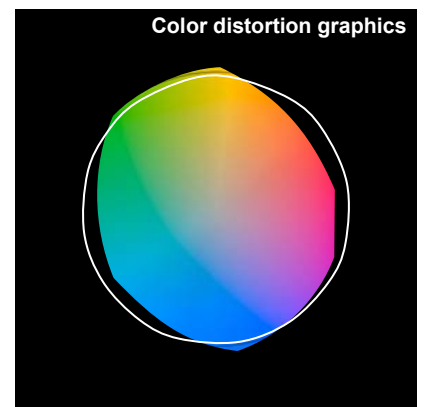
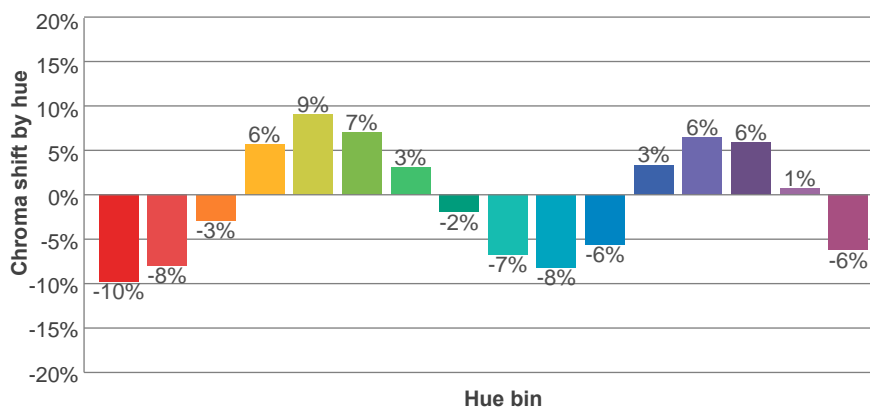
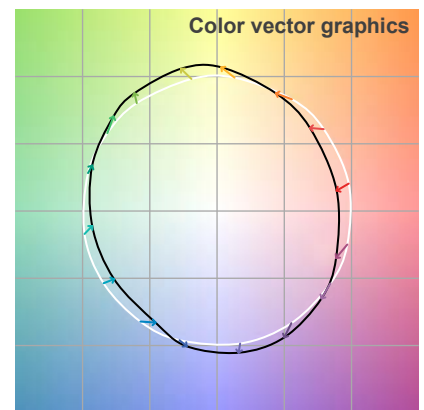
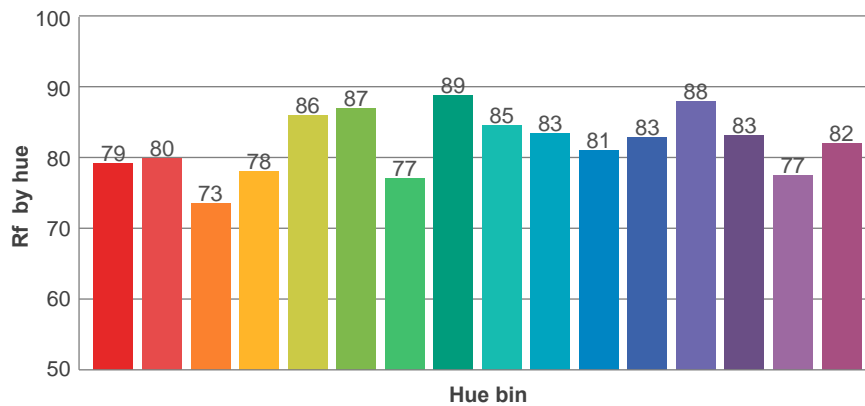
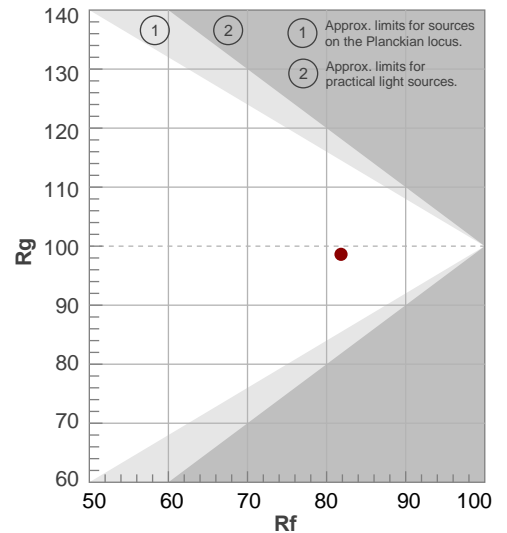
Rf 81.8

Fidelity index Rf

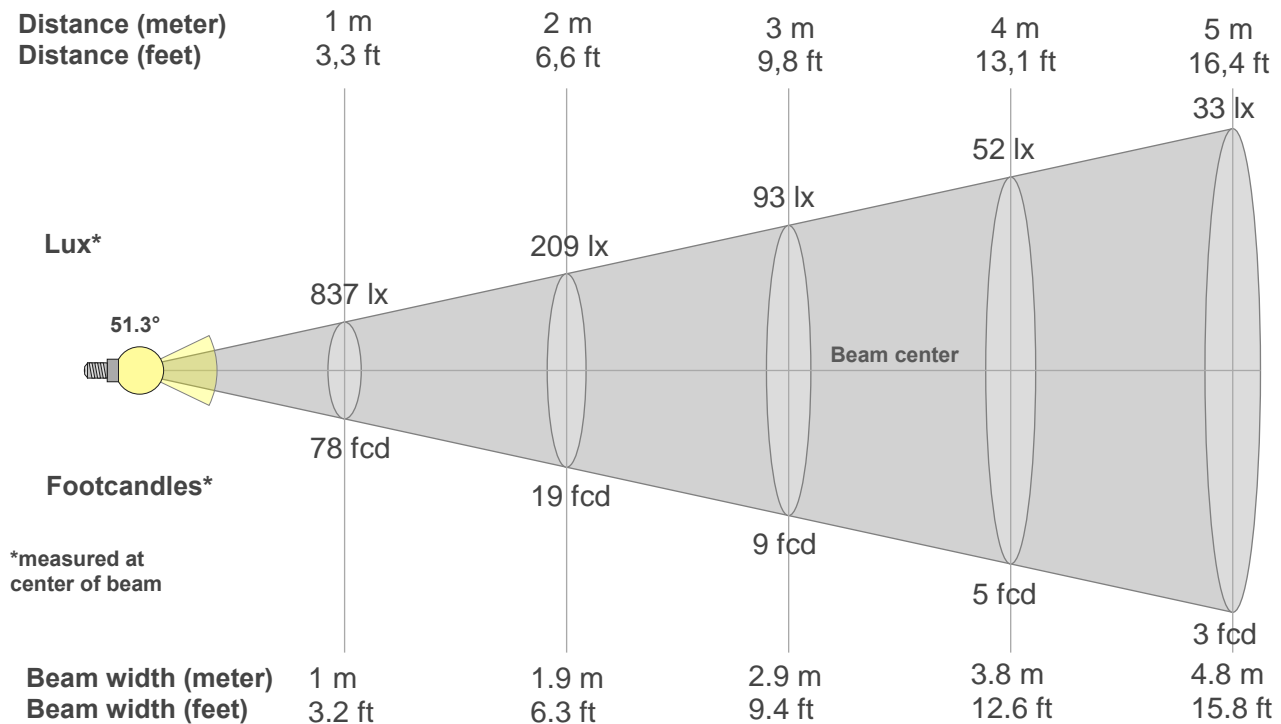
Rg 98.6

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	79	-10%	-3%
2	80	-8%	6%
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	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 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
837lx	209lx	93lx	52lx	33lx	23lx	17lx	13lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx	2lx
77.8fcd	19.4fcd	8.6fcd	4.9fcd	3.1fcd	2.2fcd	1.6fcd	1.2fcd	1fcd	0.8fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	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°
837	831	811	791	753	711	665	613	561	499	437	370	300	235	196	157	138	126	115	105
100%	99%	97%	94%	90%	85%	79%	73%	67%	60%	52%	44%	36%	28%	23%	19%	17%	15%	14%	13%

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°
837	839	839	840	837	834	828	815	801	766	724	674	611	548	483	418	357	297	241	200
100%	100%	100%	100%	100%	100%	99%	97%	96%	91%	87%	81%	73%	65%	58%	50%	43%	36%	29%	24%

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°
837	831	811	791	753	711	665	613	561	499	437	370	300	235	196	157	138	126	115	105
100%	99%	97%	94%	90%	85%	79%	73%	67%	60%	52%	44%	36%	28%	23%	19%	17%	15%	14%	13%

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°
837	839	839	840	837	834	828	815	801	766	724	674	611	548	483	418	357	297	241	200
100%	100%	100%	100%	100%	100%	99%	97%	96%	91%	87%	81%	73%	65%	58%	50%	43%	36%	29%	24%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51.3°	90.5°	124.2°	96.3%	87.1%