

Light efficiency:

61 Lumen/Watt

Light quality:

CRI: 81.8

Color temperature:

2916 K

Output: 2989 lm

Peak: 9516 cd

Power: 48.9 W

PF: 1.0



Beam angle

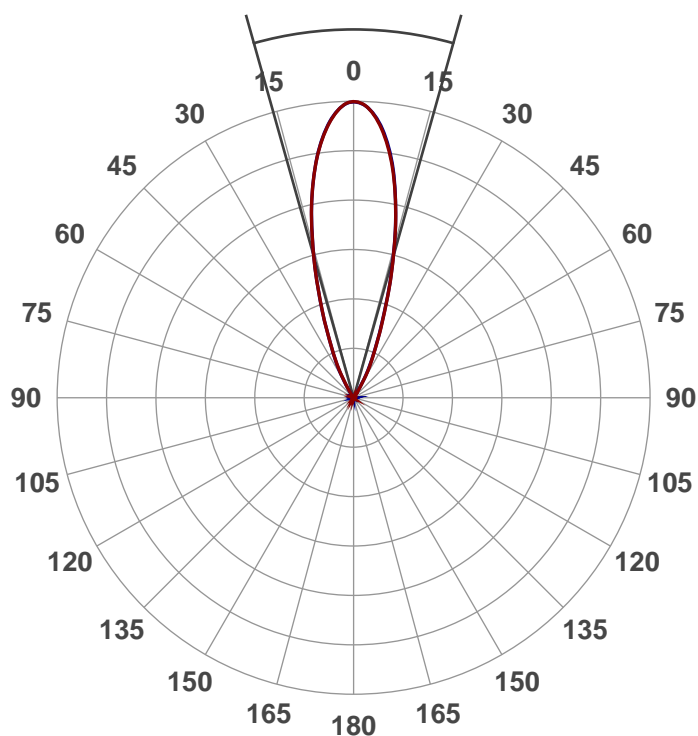
31.4°

Product name:

623-4-XTM19-40LM-30K-83-SA40

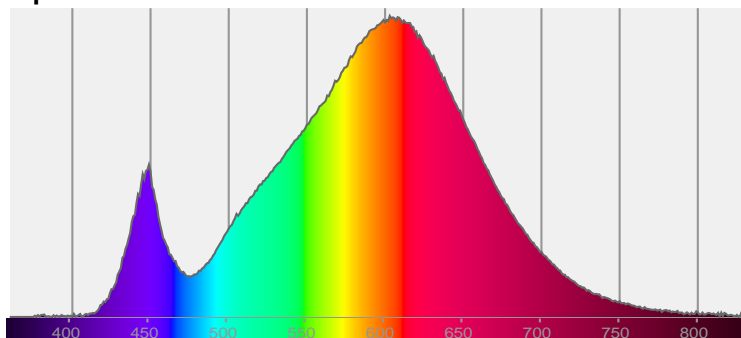
Date and time:

7/21/2016 3:57:36 PM

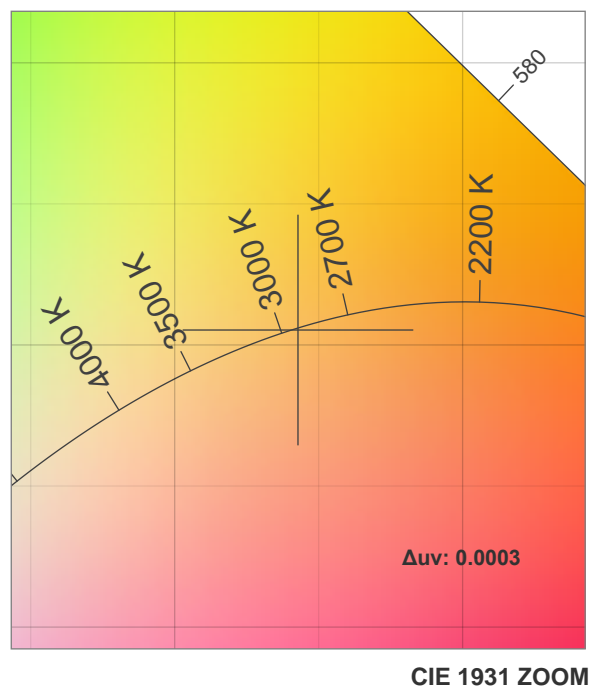
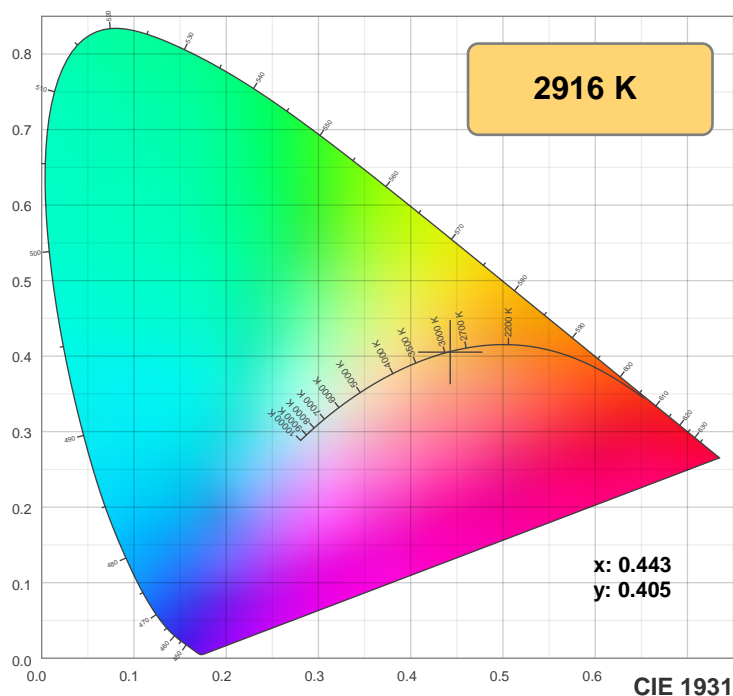


CIE 1931  
x: 0.443  
y: 0.405

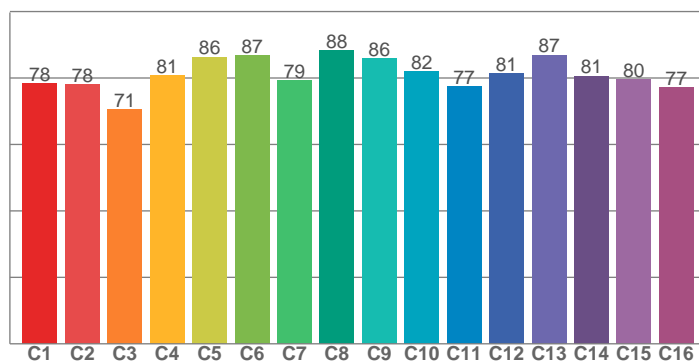
Spectra



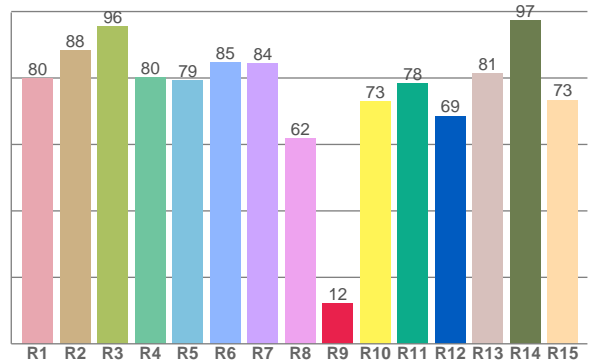
## Color details



TM30: 81.0



CRI: 81.8 (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
79.8	88.4	95.5	80.3	79.2	84.7	84.4	61.8	12.2	73.1	78.4	68.6	81.4	97.2	73.4

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
78.4	78.0	70.6	80.8	86.3	86.8	79.3	88.2	85.8	82.1	77.4	81.4	86.9	80.6	79.6	77.1

## Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	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	x	y	u	v	$\Delta uv$
2916 K	81.8	12.2	81.0	98.3	0.443	0.405	0.254	0.348	0.0003

## TM30 details

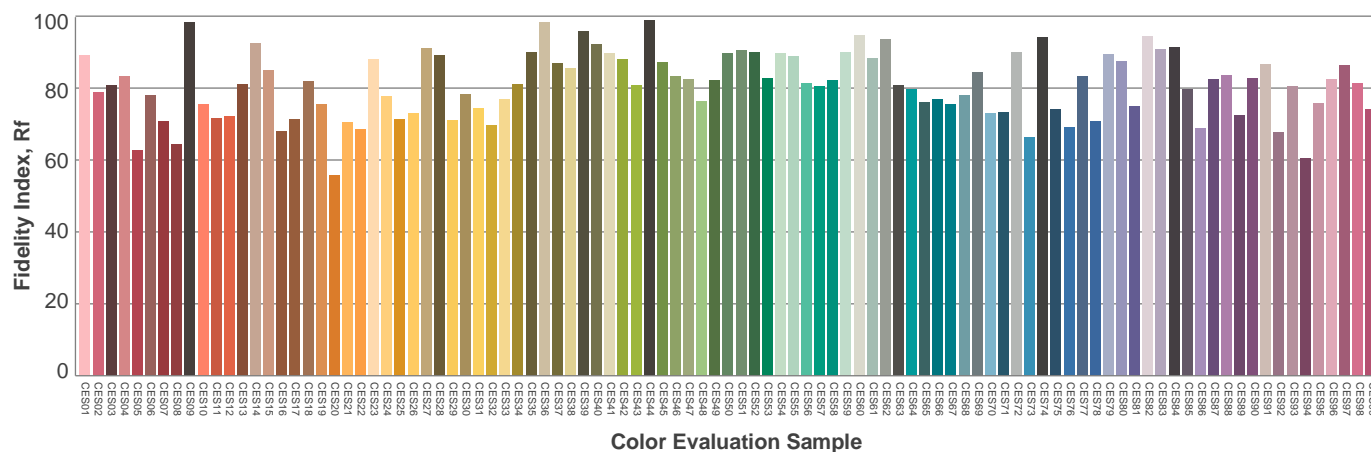
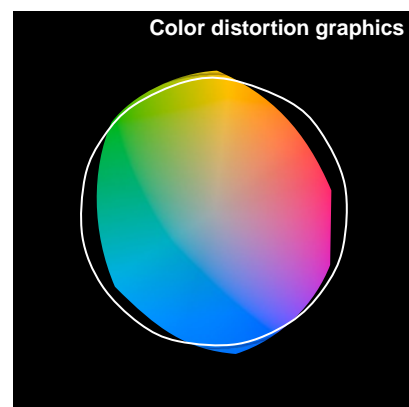
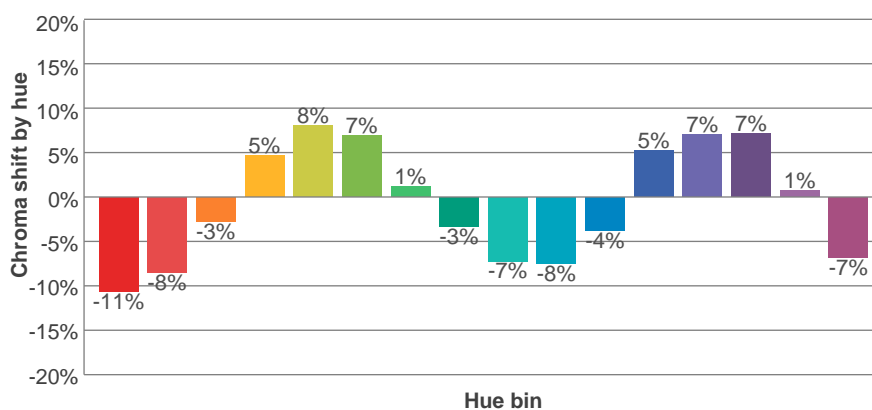
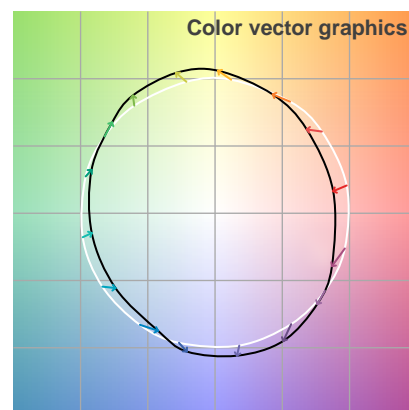
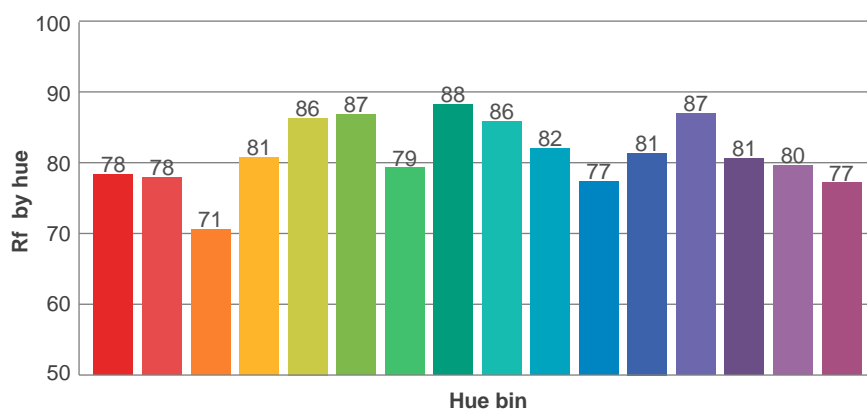
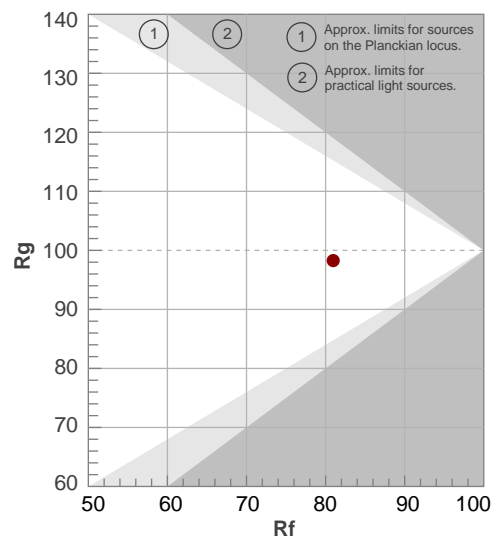
**Rf 81.0**

Fidelity index Rf

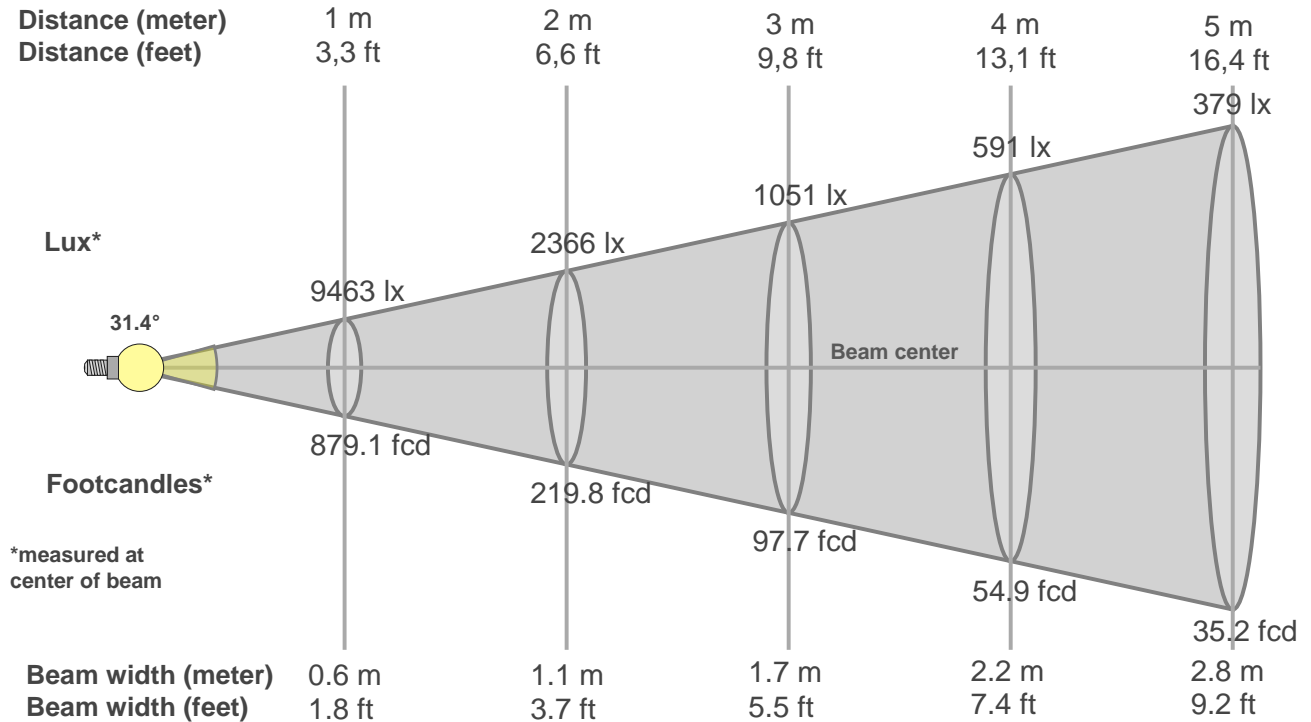
**Rg 98.3**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	78	-11%	-2%
2	78	-8%	8%
3	71	-3%	14%
4	81	5%	11%
5	86	8%	6%
6	87	7%	-3%
7	79	1%	-12%
8	88	-3%	-6%
9	86	-7%	-2%
10	82	-8%	6%
11	77	-4%	14%
12	81	5%	7%
13	87	7%	-3%
14	81	7%	-12%
15	80	1%	-11%
16	77	-7%	-15%



## 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
9463lx	2366lx	1051lx	591lx	379lx	263lx	193lx	148lx	117lx	95lx	78lx	66lx	56lx	48lx	42lx	37lx	33lx	29lx	26lx	24lx
879.1fcd	219.8fcd	97.7fcd	54.9fcd	35.2fcd	24.4fcd	17.9fcd	13.7fcd	10.9fcd	8.8fcd	7.3fcd	6.1fcd	5.2fcd	4.5fcd	3.9fcd	3.4fcd	3fcd	2.7fcd	2.4fcd	2.2fcd

### 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°
9463	9394	9057	8609	8013	7289	6474	5566	4625	3759	2913	2276	1688	1283	896	541	281	105	37	19
100%	99%	96%	91%	85%	77%	68%	59%	49%	40%	31%	24%	18%	14%	9%	6%	3%	1%	0%	0%

### 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°
9463	9379	9076	8620	8033	7287	6473	5551	4613	3758	2936	2282	1713	1323	954	609	345	127	56	22
100%	99%	96%	91%	85%	77%	68%	59%	49%	40%	31%	24%	18%	14%	10%	6%	4%	1%	1%	0%

### 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°
9463	9432	9087	8689	8034	7336	6465	5568	4625	3740	2911	2263	1705	1322	977	649	344	176	51	31
100%	100%	96%	92%	85%	78%	68%	59%	49%	40%	31%	24%	18%	14%	10%	7%	4%	2%	1%	0%

### 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°
9463	9412	9108	8730	8082	7392	6478	5556	4611	3714	2887	2221	1683	1272	912	582	264	140	37	24
100%	99%	96%	92%	85%	78%	68%	59%	49%	39%	31%	23%	18%	13%	10%	6%	3%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31.4°	55.8°	65.4°	99.3%	99.0%