

Light efficiency:

52 Lumen/Watt

Light quality:

CRI: 81.7

Color temperature:

2916 K

Output: 2550 lm

Peak: 5335 cd

Power: 48.8 W

PF: 1.0



Beam angle

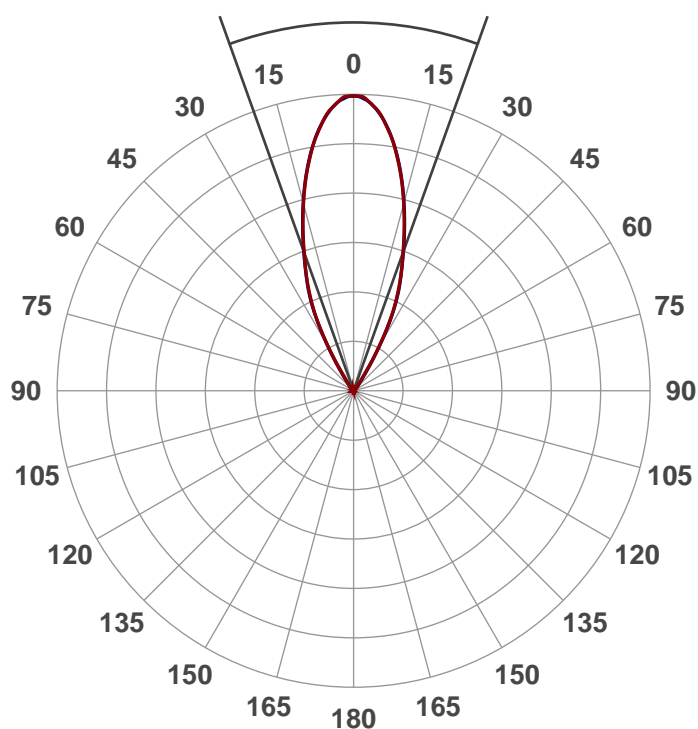
39.4°

Product name:

623-4-XTM19-40LM-30K-83-DA20

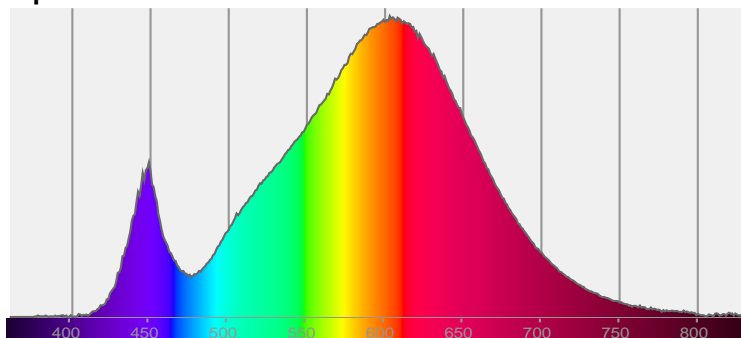
Date and time:

7/21/2016 4:24:39 PM

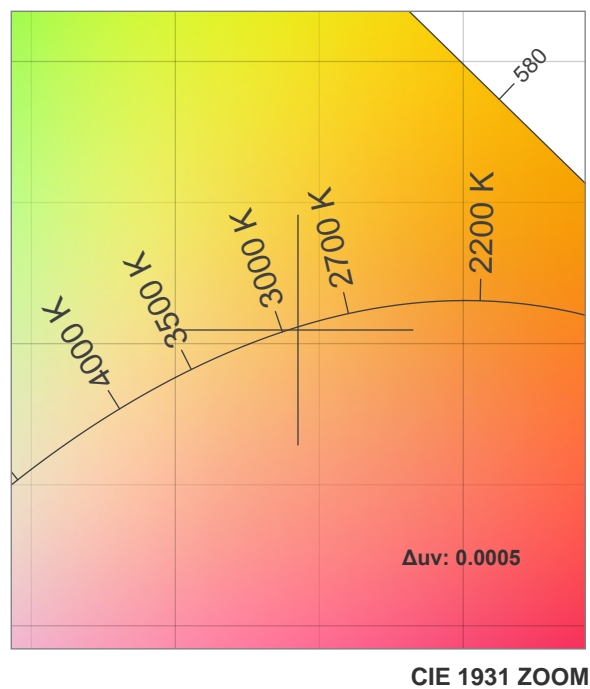
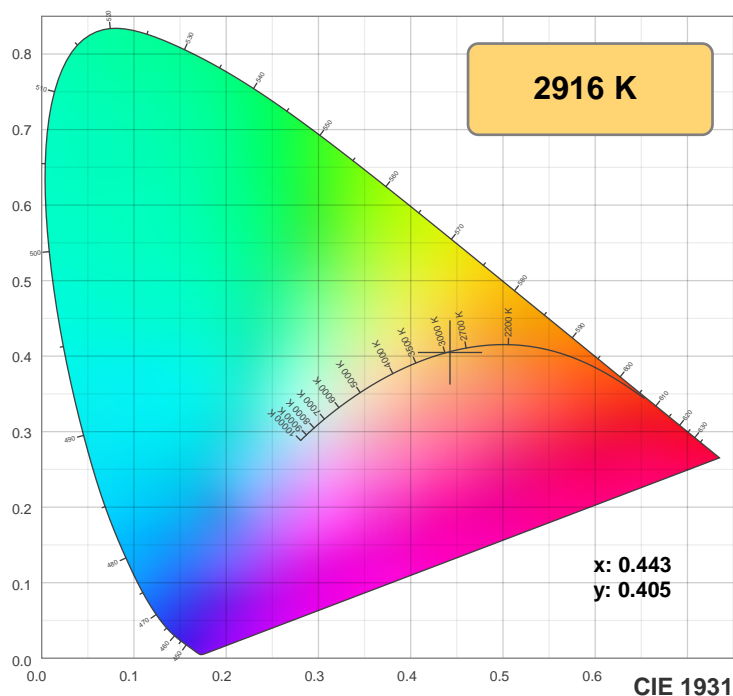


CIE 1931  
x: 0.443  
y: 0.405

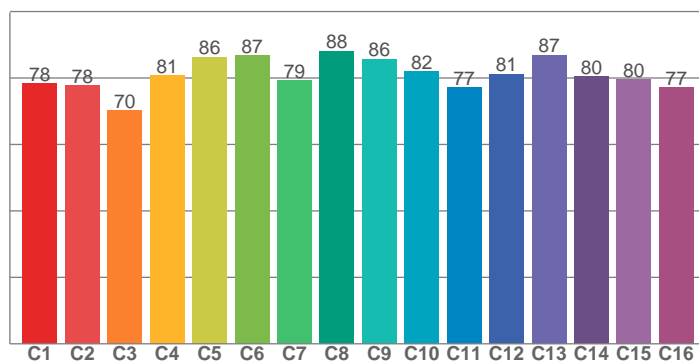
Spectra



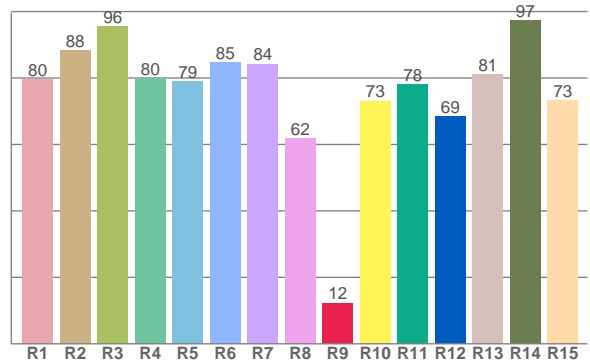
## Color details



**TM30: 80.8**



**CRI: 81.7 (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
79.6	88.3	95.6	80.0	79.1	84.6	84.3	61.7	12.3	73.1	78.1	68.6	81.2	97.3	73.3

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
78.3	77.8	70.3	80.7	86.3	86.8	79.2	88.1	85.7	81.9	77.2	81.2	86.9	80.5	79.5	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	Δuv
2916 K	81.7	12.3	80.8	98.3	0.443	0.405	0.254	0.348	0.0005

## TM30 details

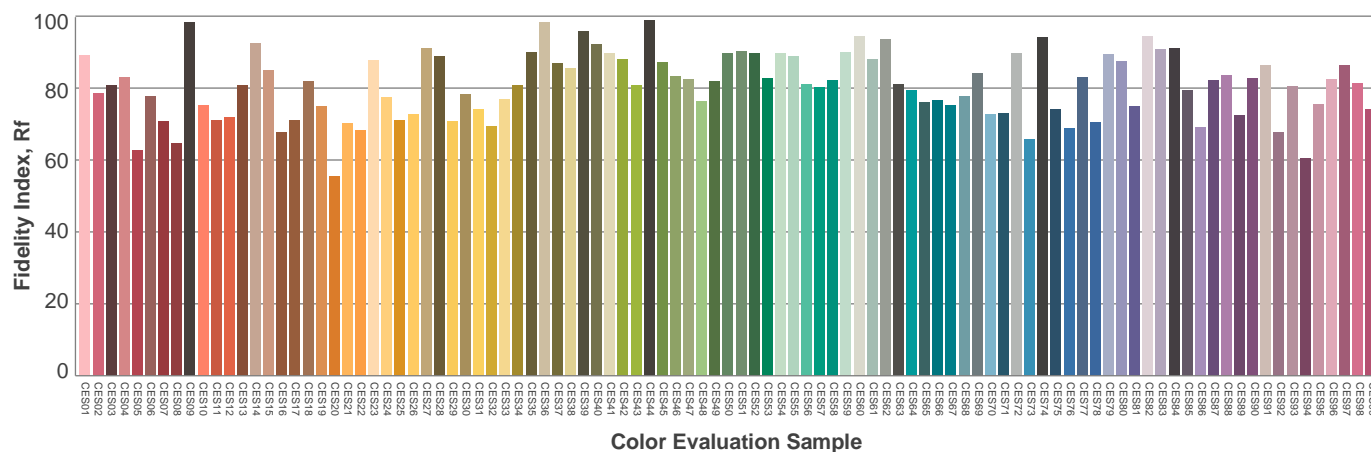
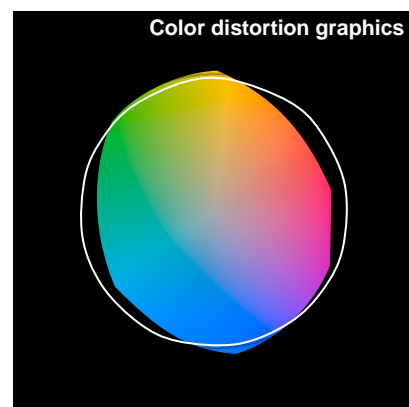
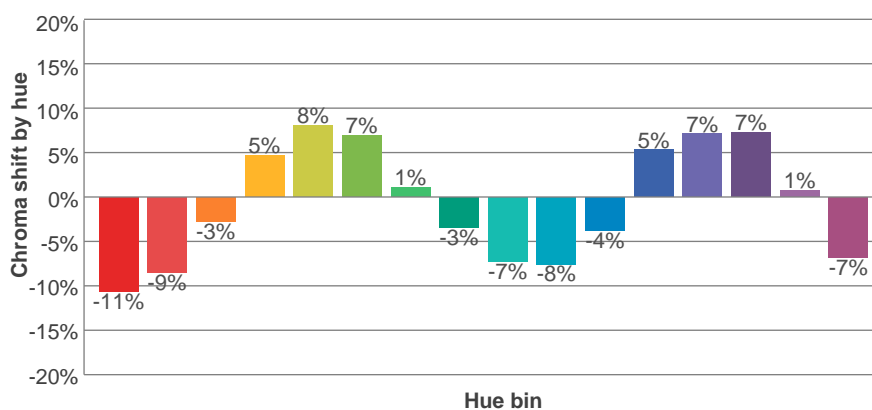
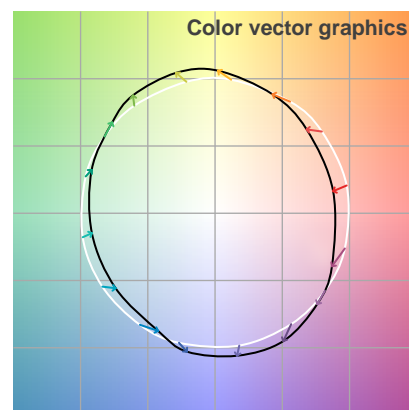
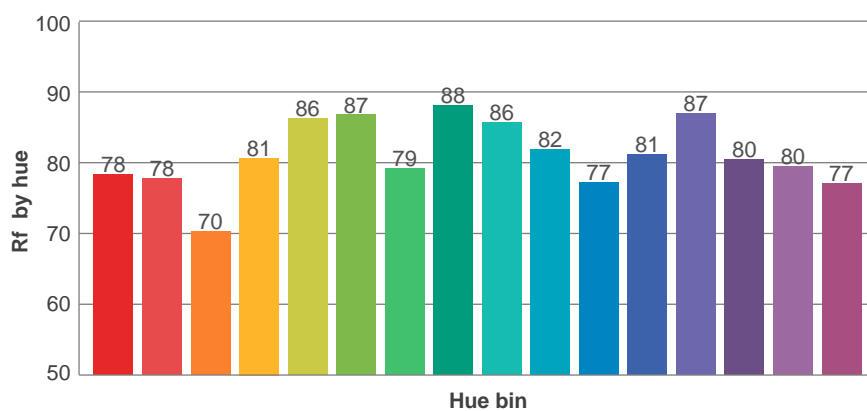
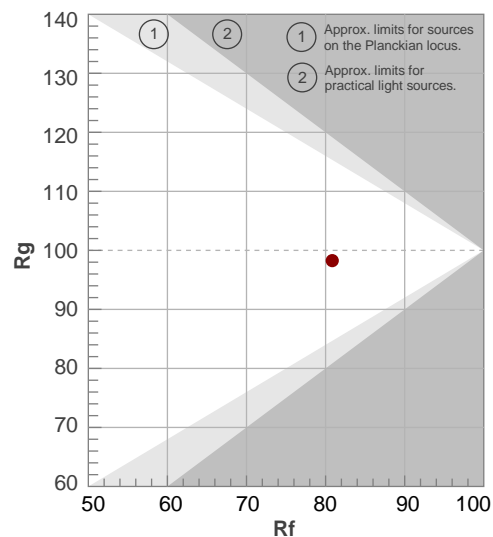
**Rf 80.8**

Fidelity index Rf

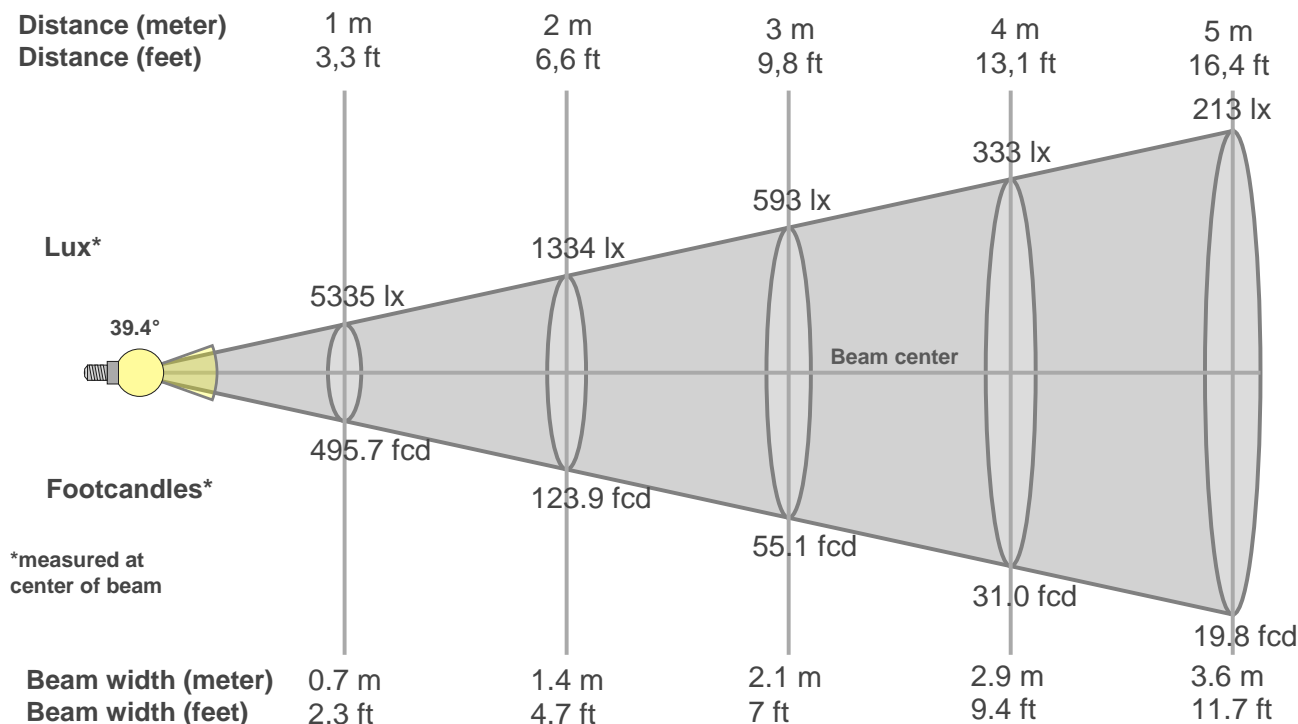
**Rg 98.3**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	78	-11%	-2%
2	78	-9%	8%
3	70	-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	80	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
5335lx	1334lx	593lx	333lx	213lx	148lx	109lx	83lx	66lx	53lx	44lx	37lx	32lx	27lx	24lx	21lx	18lx	16lx	15lx	13lx
495.7fcd	123.9fcd	55.1fcd	31fcd	19.8fcd	13.8fcd	10.1fcd	7.7fcd	6.1fcd	5fcd	4.1fcd	3.4fcd	2.9fcd	2.5fcd	2.2fcd	1.9fcd	1.7fcd	1.5fcd	1.4fcd	1.2fcd

### 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°
5335	5319	5165	4975	4706	4399	4058	3693	3319	2956	2603	2299	1990	1672	1309	909	597	312	225	152
100%	100%	97%	93%	88%	82%	76%	69%	62%	55%	49%	43%	37%	31%	25%	17%	11%	6%	4%	3%

### 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°
5335	5290	5168	4970	4715	4411	4071	3711	3340	2975	2627	2308	2022	1701	1322	937	594	367	233	166
100%	99%	97%	93%	88%	83%	76%	70%	63%	56%	49%	43%	38%	32%	25%	18%	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°
5335	5319	5165	4975	4706	4399	4058	3693	3319	2956	2603	2299	1990	1672	1309	909	597	312	225	152
100%	100%	97%	93%	88%	82%	76%	69%	62%	55%	49%	43%	37%	31%	25%	17%	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°
5335	5290	5168	4970	4715	4411	4071	3711	3340	2975	2627	2308	2022	1701	1322	937	594	367	233	166
100%	99%	97%	93%	88%	83%	76%	70%	63%	56%	49%	43%	38%	32%	25%	18%	11%	7%	4%	3%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39.4°	64.8°	78.6°	99.3%	98.0%