

Light efficiency:

71 Lumen/Watt

Light quality:

CRI: 80.4

Color temperature:

2938 K

Output: 2898 lm  
Peak: 14936 cd  
Power: 41.0 W  
PF: 0.99



Beam angle

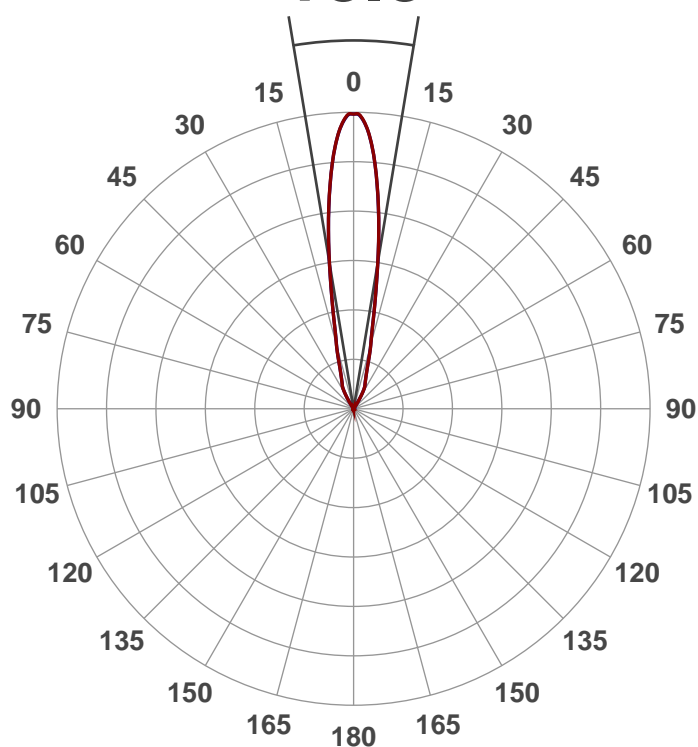
18.8°

Product name:

608-4-XTM19-38LM-30K-83-SA20-CRO

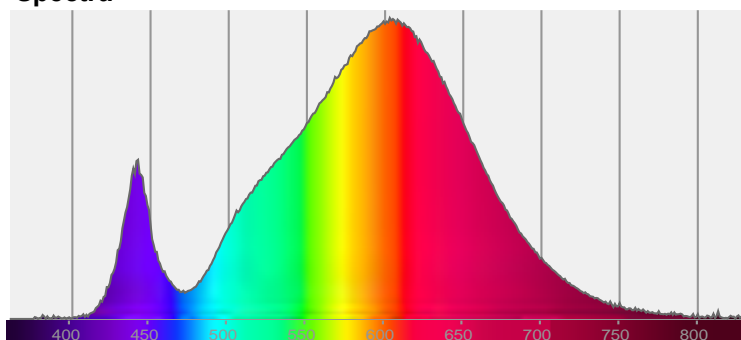
Date and time:

9/28/2016 3:47:14 PM

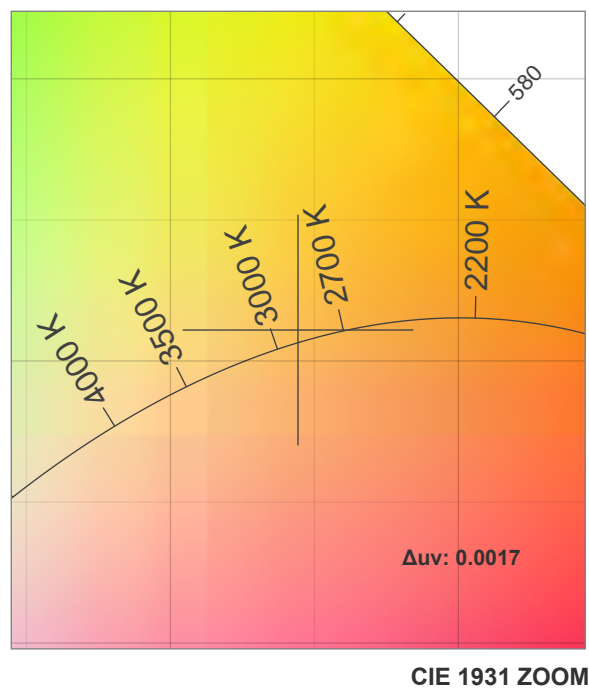
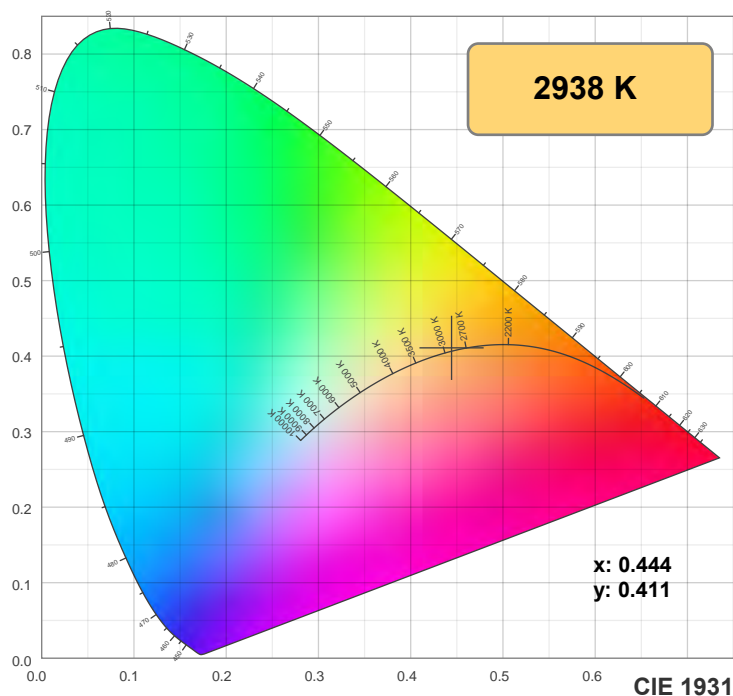


CIE 1931  
x: 0.444  
y: 0.411

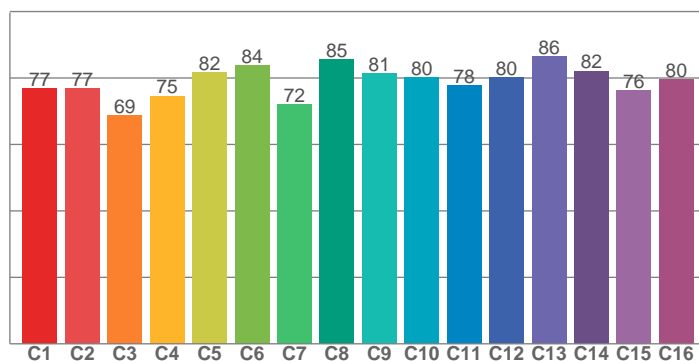
Spectra



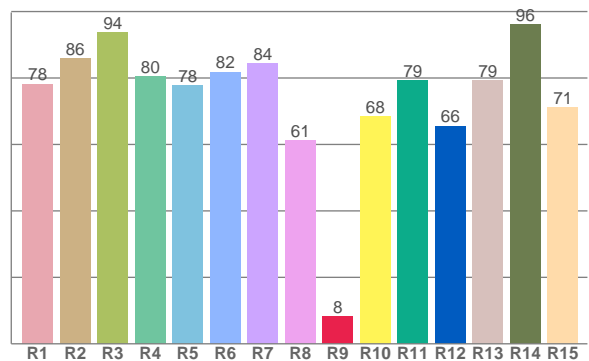
## Color details



**TM30: 78.7**



**CRI: 80.4 (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
78.3	86.0	93.7	80.4	77.7	81.8	84.5	61.1	8.2	68.4	79.2	65.6	79.3	96.1	71.1

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
76.8	76.8	68.8	74.5	81.6	83.7	72.1	85.5	81.4	80.2	77.8	80.1	86.5	82.1	76.3	79.6

## 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
2938 K	80.4	8.2	78.7	98.8	0.444	0.411	0.252	0.350	0.0017

## TM30 details

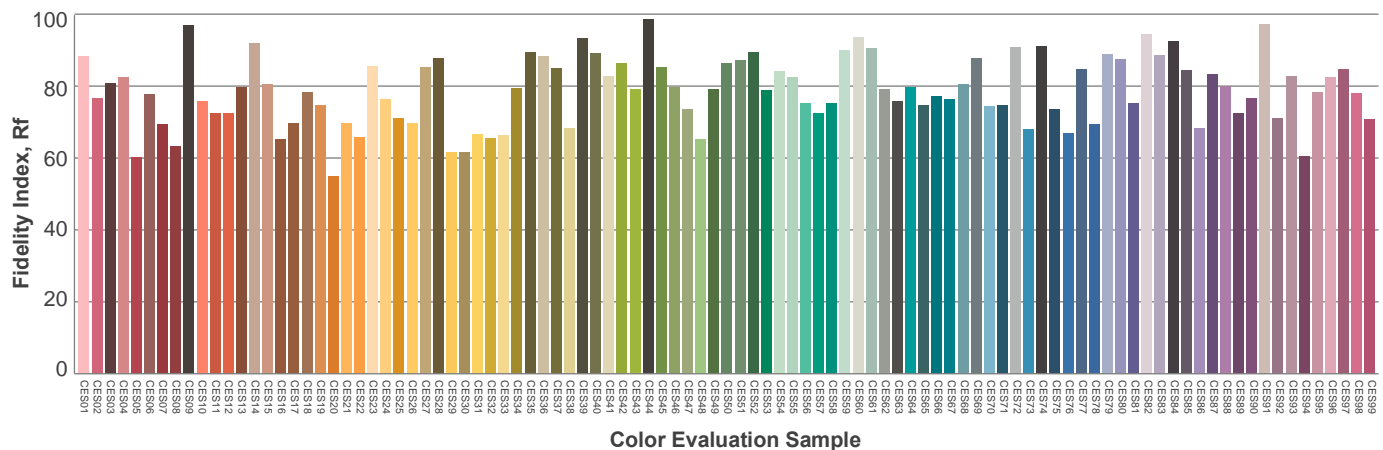
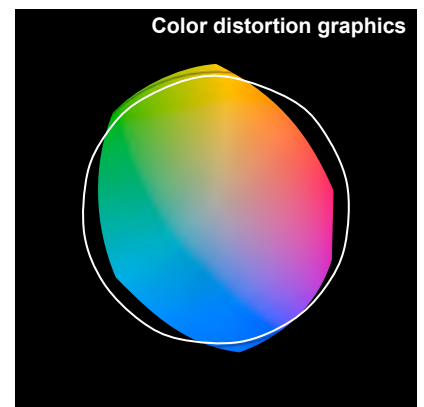
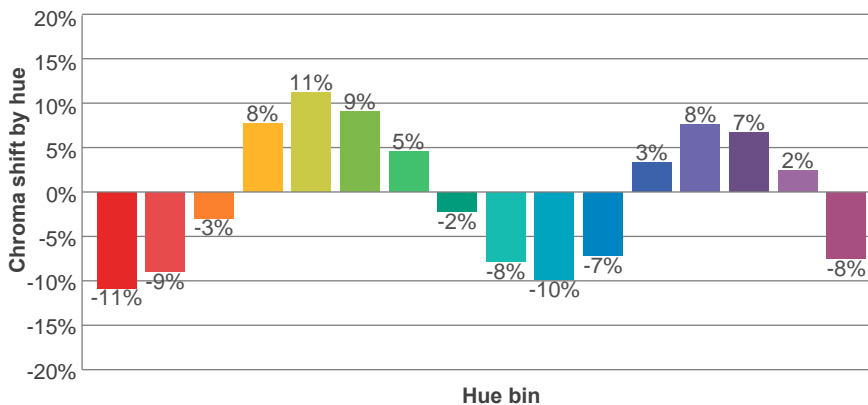
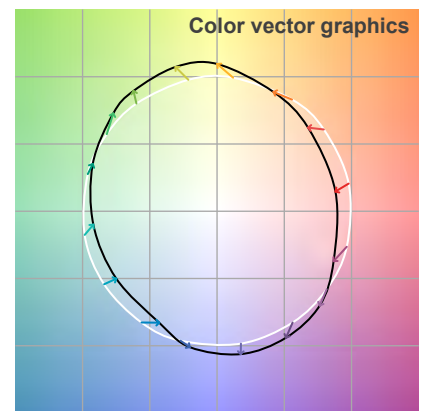
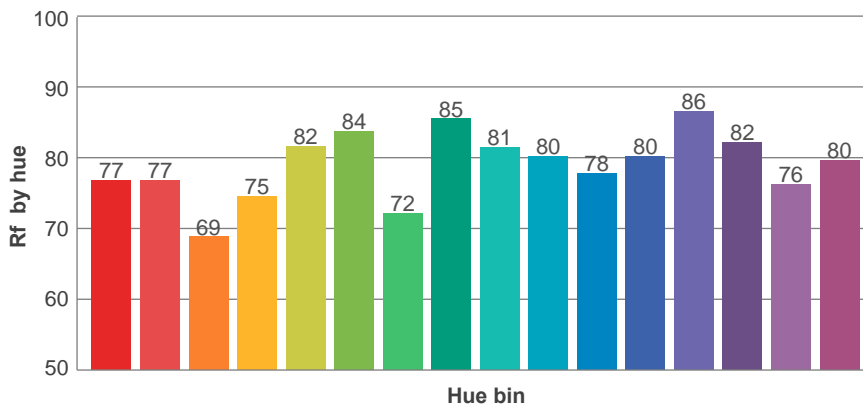
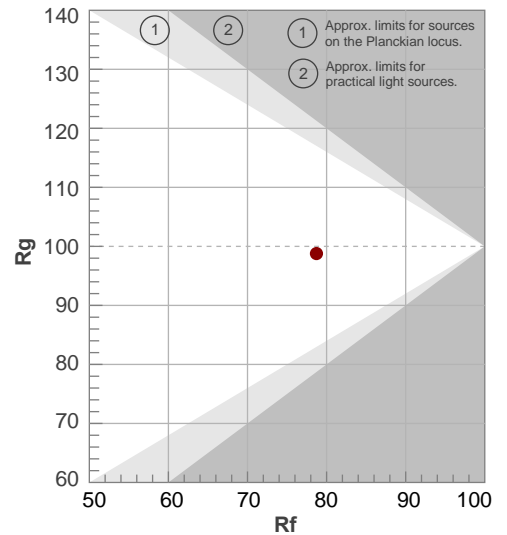
**Rf 78.7**

Fidelity index Rf

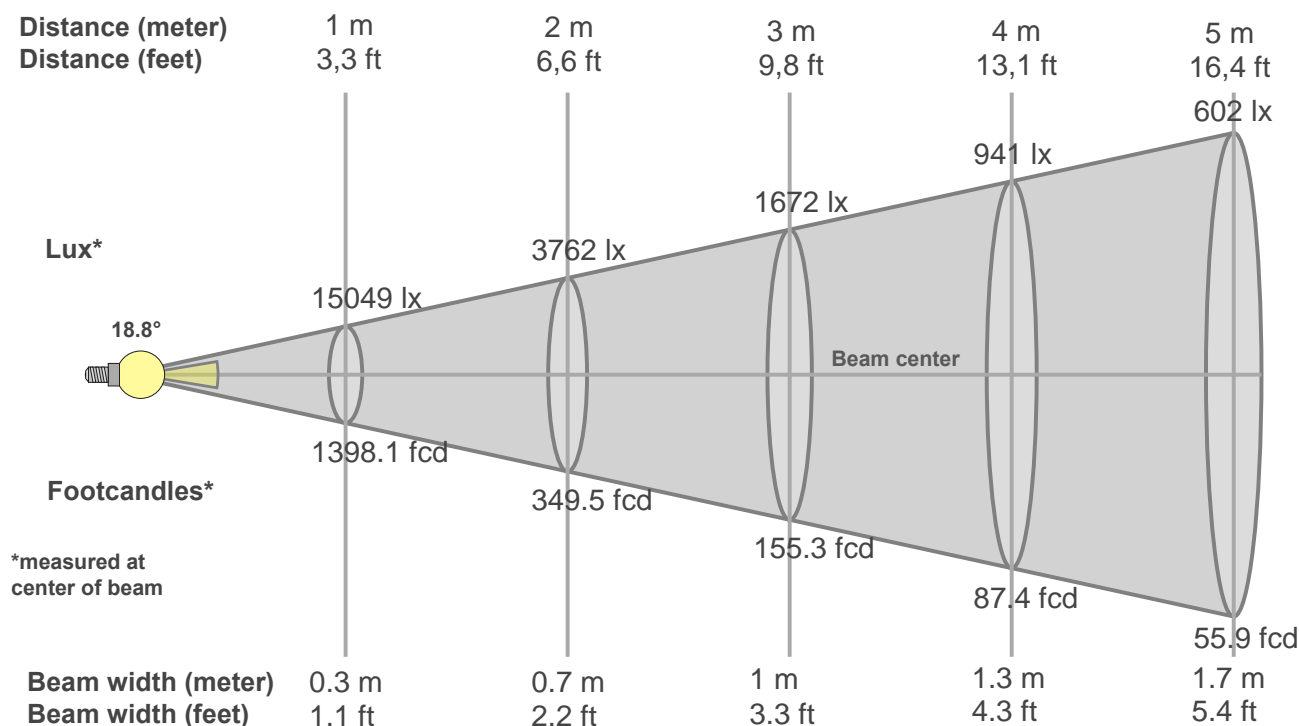
**Rg 98.8**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	77	-11%	-4%
2	77	-9%	8%
3	69	-3%	15%
4	75	8%	14%
5	82	11%	8%
6	84	9%	-3%
7	72	5%	-15%
8	85	-2%	-8%
9	81	-8%	-6%
10	80	-10%	2%
11	78	-7%	11%
12	80	3%	8%
13	86	8%	-2%
14	82	7%	-10%
15	76	2%	-13%
16	80	-8%	-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
15049lx	3762lx	1672lx	941lx	602lx	418lx	307lx	235lx	186lx	150lx	124lx	105lx	89lx	77lx	67lx	59lx	52lx	46lx	42lx	38lx
1398.1fcd	349.5fcd	155.3fcd	87.4fcd	55.9fcd	38.8fcd	28.5fcd	21.8fcd	17.3fcd	14fcd	11.6fcd	9.7fcd	8.3fcd	7.1fcd	6.2fcd	5.5fcd	4.8fcd	4.3fcd	3.9fcd	3.5fcd

### 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°
15.0K	14.6K	13.4K	11.4K	9.2K	6.8K	5.0K	3.7K	3.0K	2.3K	1.9K	1.6K	1.4K	1.3K	1.1K	0.8K	0.4K	0.2K	0.1K	0.1K
100%	97%	89%	76%	61%	45%	33%	25%	20%	15%	13%	11%	10%	9%	7%	5%	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°
15.0K	14.6K	13.3K	11.4K	9.2K	6.8K	5.0K	3.7K	3.0K	2.3K	1.9K	1.6K	1.4K	1.3K	1.1K	0.8K	0.4K	0.2K	0.1K	0.1K
100%	97%	89%	76%	61%	45%	33%	25%	20%	15%	13%	11%	10%	9%	7%	5%	3%	1%	0%	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°
15.0K	14.6K	13.4K	11.4K	9.2K	6.8K	5.0K	3.7K	3.0K	2.3K	1.9K	1.6K	1.4K	1.3K	1.1K	0.8K	0.4K	0.2K	0.1K	0.1K
100%	97%	89%	76%	61%	45%	33%	25%	20%	15%	13%	11%	10%	9%	7%	5%	3%	1%	0%	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°
15.0K	14.6K	13.3K	11.4K	9.2K	6.8K	5.0K	3.7K	3.0K	2.3K	1.9K	1.6K	1.4K	1.3K	1.1K	0.8K	0.4K	0.2K	0.1K	0.1K
100%	97%	89%	76%	61%	45%	33%	25%	20%	15%	13%	11%	10%	9%	7%	5%	3%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18.8°	46.6°	64.4°	95.9%	94.0%