

Light efficiency:

74 Lumen/Watt

Light quality:

CRI: 82.6

Color temperature:

2935 K

Output: 1431 lm

Peak: 4000 cd

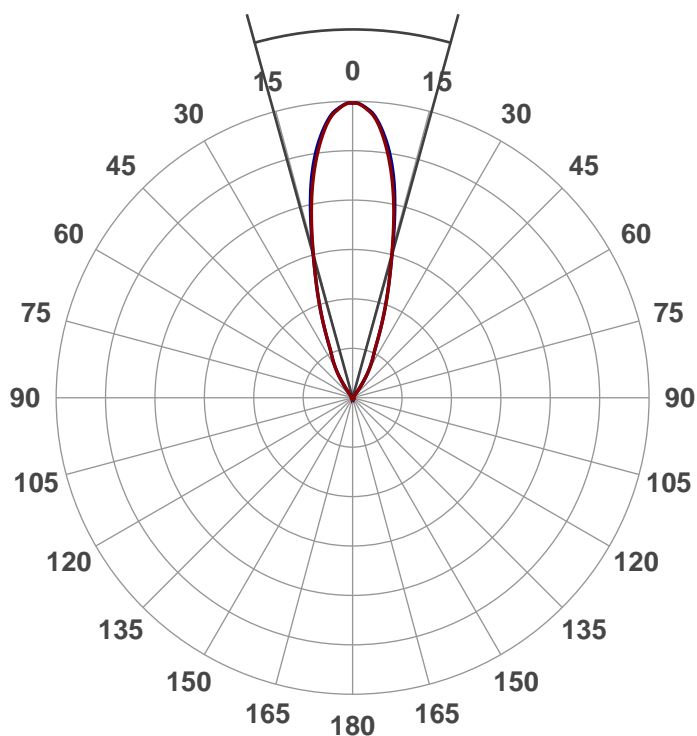
Power: 19.4 W

PF: 0.99



Beam angle

30.8°



Product name:

608-3-XTM19-20LM-30K-83-SA40-CLR

Date and time:

9/27/2016 9:58:10 AM

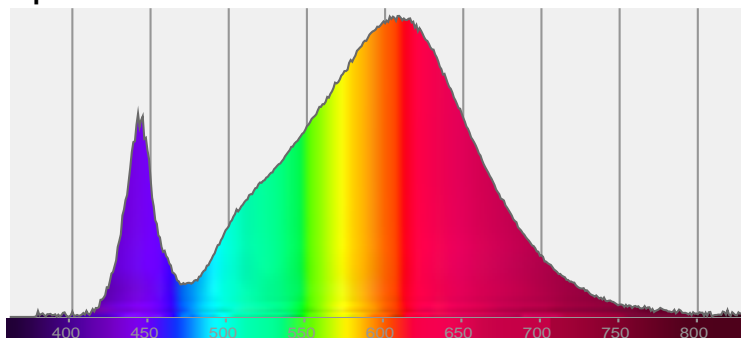


CIE 1931

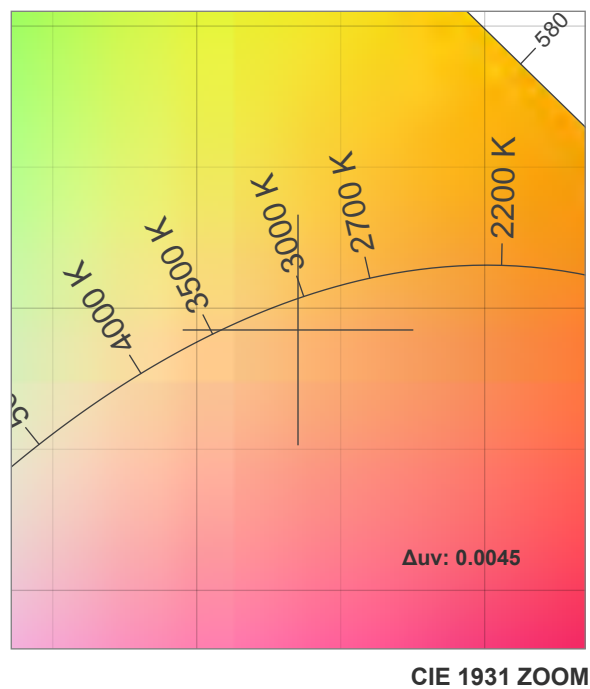
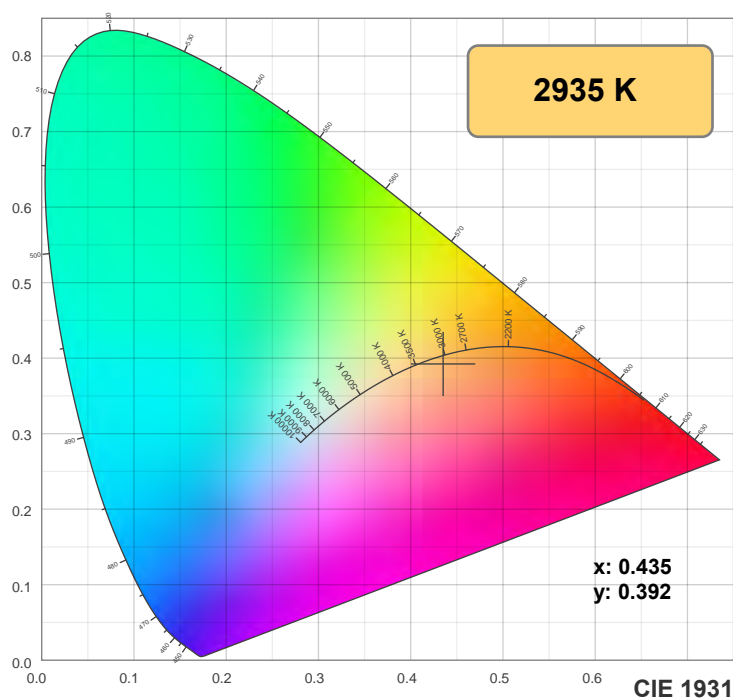
x: 0.435

y: 0.392

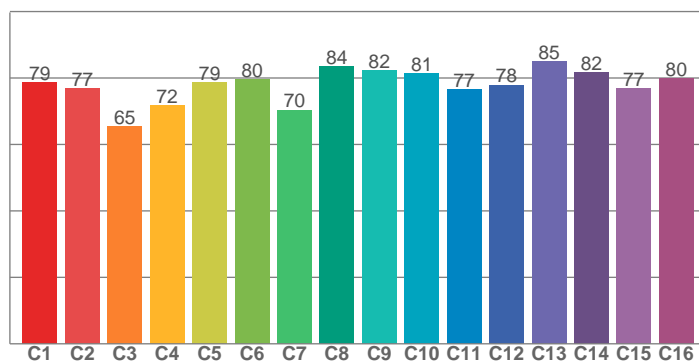
Spectra



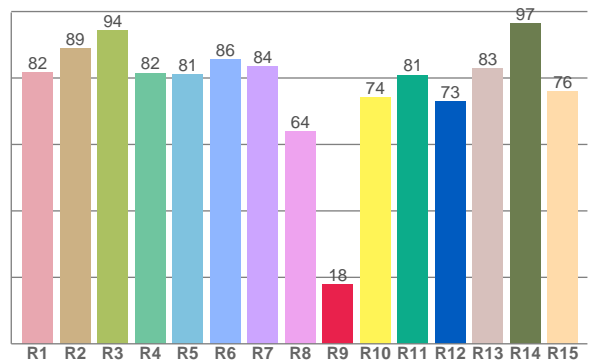
## Color details



TM30: 77.7



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
81.6	88.9	94.4	81.5	81.2	85.6	83.5	63.8	18.0	74.3	81.0	72.9	82.9	96.5	76.0

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
78.7	76.8	65.4	71.8	78.7	79.5	70.3	83.5	82.3	81.3	76.6	77.9	85.1	81.6	76.8	79.8

## 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
2935 K	82.6	18.0	77.7	101.8	0.435	0.392	0.255	0.344	0.0045

## TM30 details

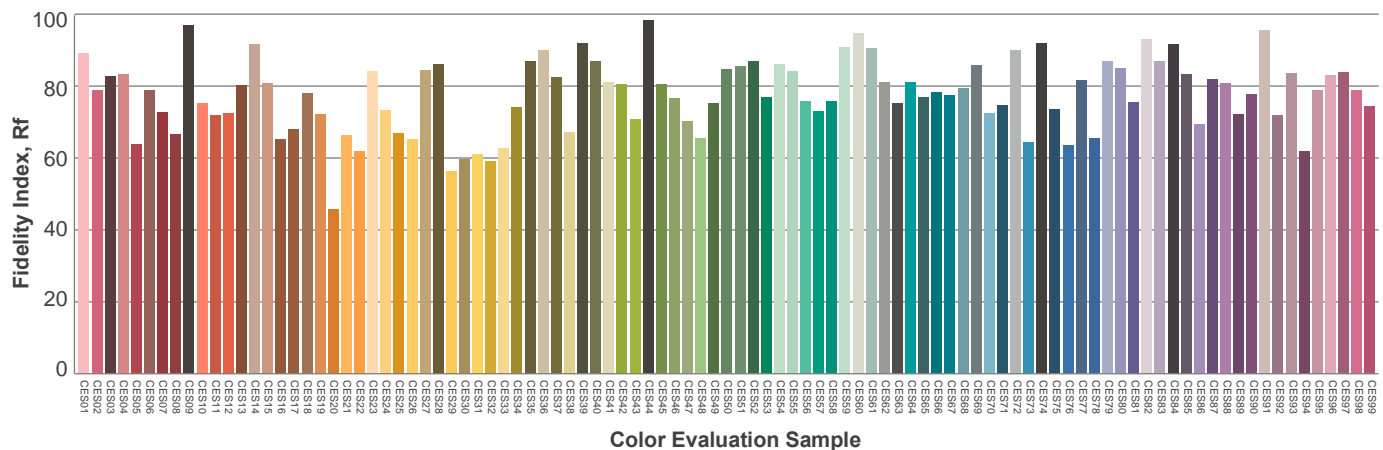
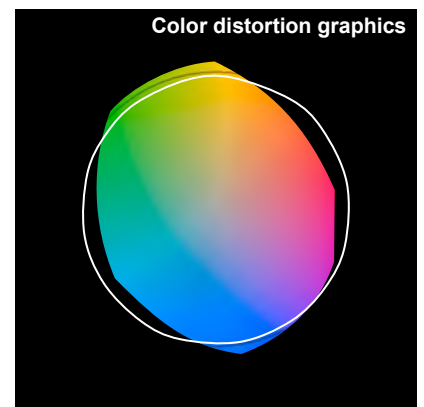
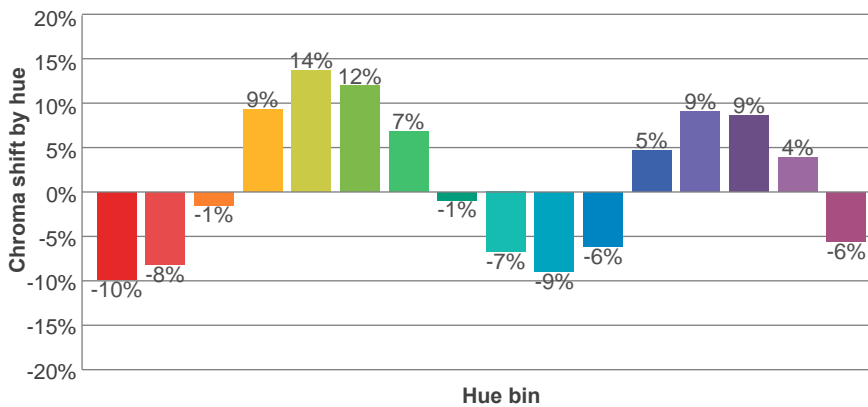
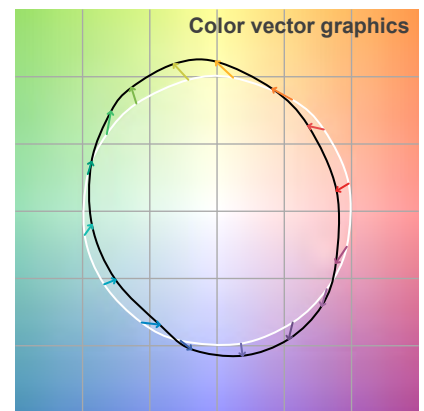
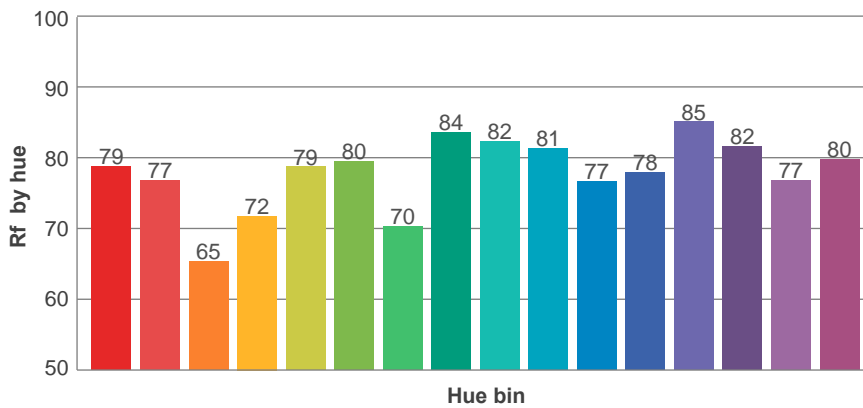
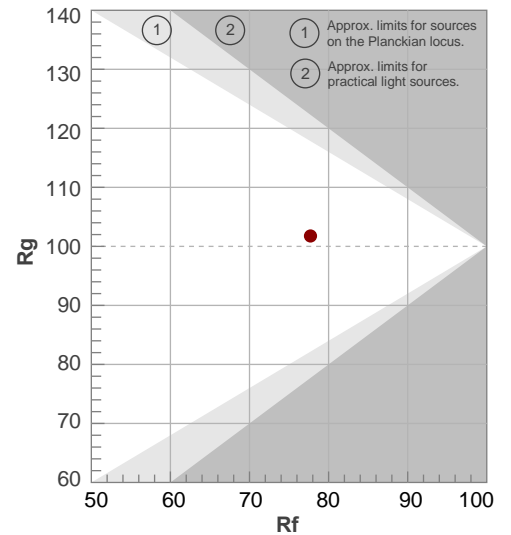
**Rf 77.7**

Fidelity index Rf

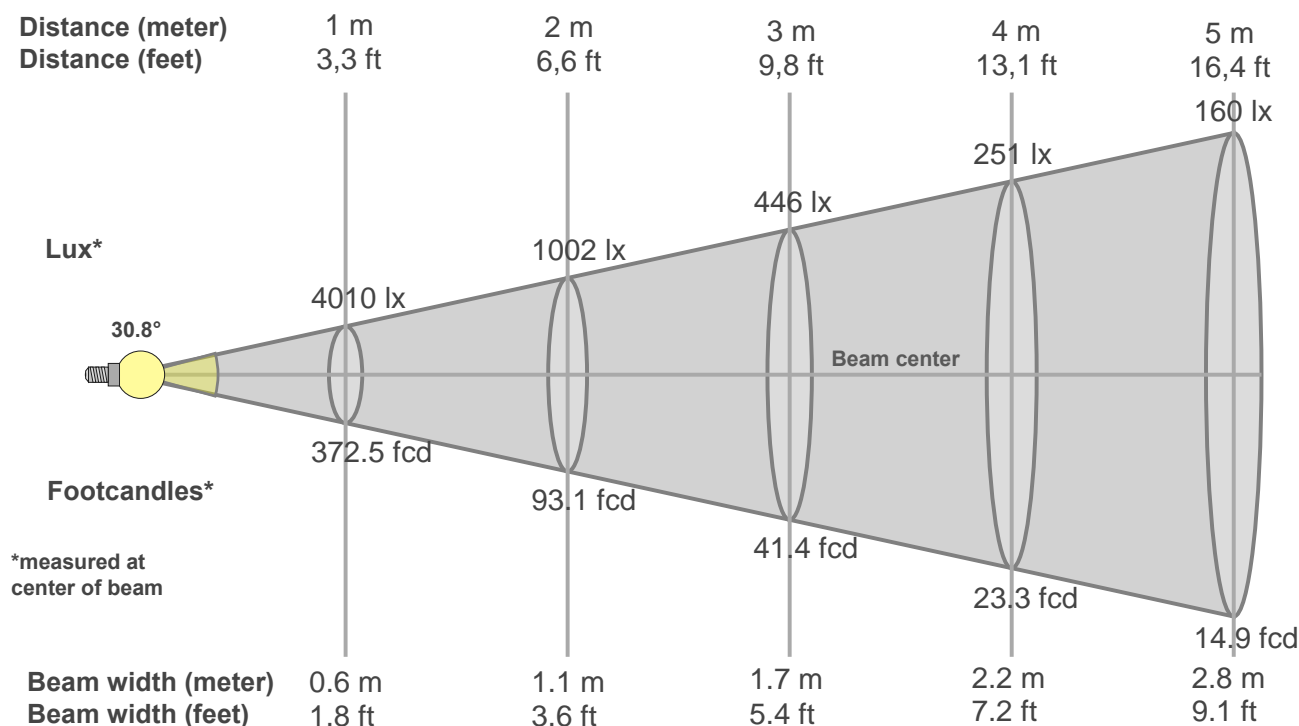
**Rg 101.8**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	-10%	-4%
2	77	-8%	9%
3	65	-1%	16%
4	72	9%	15%
5	79	14%	8%
6	80	12%	-3%
7	70	7%	-16%
8	84	-1%	-9%
9	82	-7%	-6%
10	81	-9%	2%
11	77	-6%	12%
12	78	5%	9%
13	85	9%	-1%
14	82	9%	-9%
15	77	4%	-12%
16	80	-6%	-13%



## 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
4010lx	1002lx	446lx	251lx	160lx	111lx	82lx	63lx	50lx	40lx	33lx	28lx	24lx	20lx	18lx	16lx	14lx	12lx	11lx	10lx
372.5fcd	93.1fcd	41.4fcd	23.3fcd	14.9fcd	10.3fcd	7.6fcd	5.8fcd	4.6fcd	3.7fcd	3.1fcd	2.6fcd	2.2fcd	1.9fcd	1.7fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.9fcd

### 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°
4010	3961	3855	3654	3379	3054	2683	2277	1892	1574	1286	1021	793	652	559	462	356	245	144	72
100%	99%	96%	91%	84%	76%	67%	57%	47%	39%	32%	25%	20%	16%	14%	12%	9%	6%	4%	2%

### 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°
4010	3969	3875	3691	3446	3136	2753	2315	1901	1568	1278	1021	800	655	556	456	354	249	153	78
100%	99%	97%	92%	86%	78%	69%	58%	47%	39%	32%	25%	20%	16%	14%	11%	9%	6%	4%	2%

### 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°
4010	3961	3855	3654	3379	3054	2683	2277	1892	1574	1286	1021	793	652	559	462	356	245	144	72
100%	99%	96%	91%	84%	76%	67%	57%	47%	39%	32%	25%	20%	16%	14%	12%	9%	6%	4%	2%

### 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°
4010	3969	3875	3691	3446	3136	2753	2315	1901	1568	1278	1021	800	655	556	456	354	249	153	78
100%	99%	97%	92%	86%	78%	69%	58%	47%	39%	32%	25%	20%	16%	14%	11%	9%	6%	4%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30.8°	62.3°	74.4°	98.3%	97.5%