

Light efficiency:

**59 Lumen/Watt**

Light quality:

**CRI: 82.5**

Color temperature:

**2948 K**

**Output: 1144 lm**

**Peak: 1750 cd**

**Power: 19.3 W**

**PF: 0.99**



Beam angle

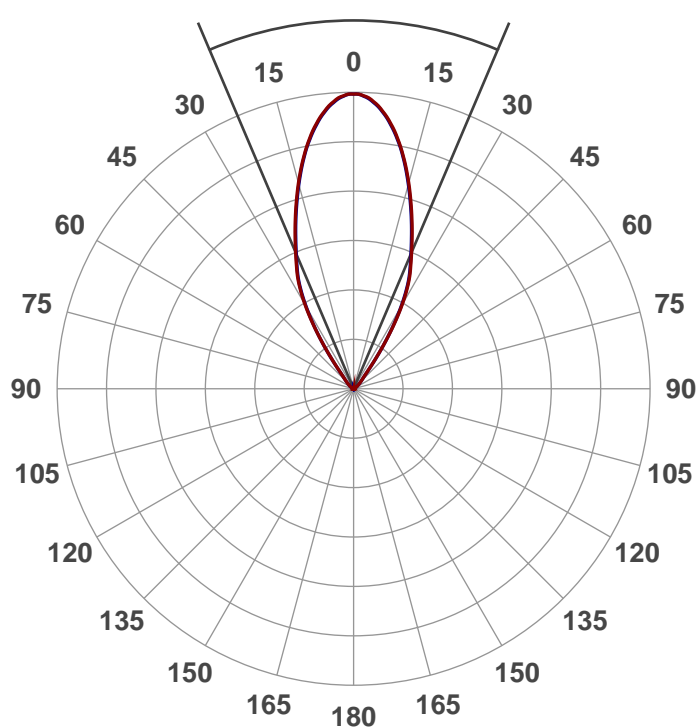
**46.1°**

Product name:

**608-3-XTM19-20LM-30K-83-DA40-CRO**

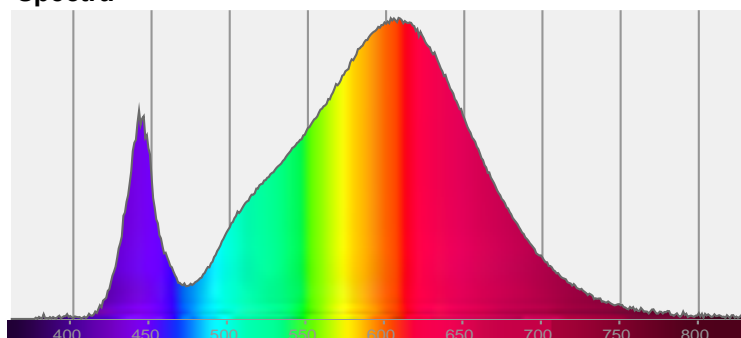
Date and time:

**9/27/2016 11:10:08 AM**

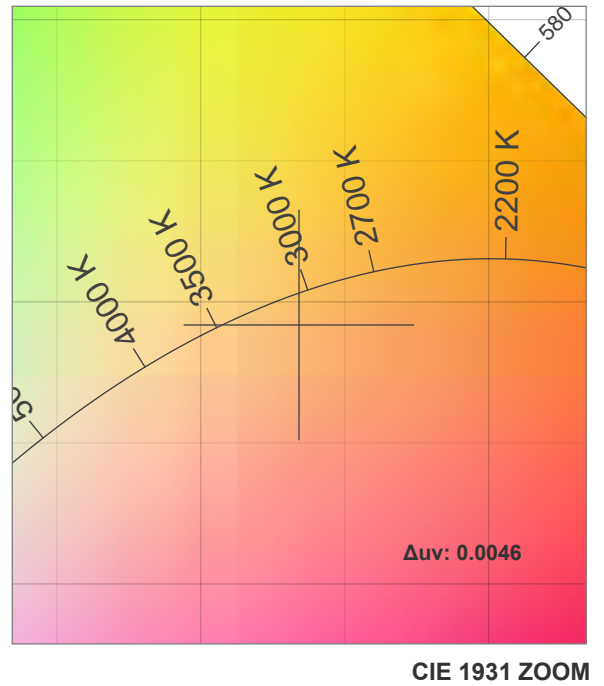
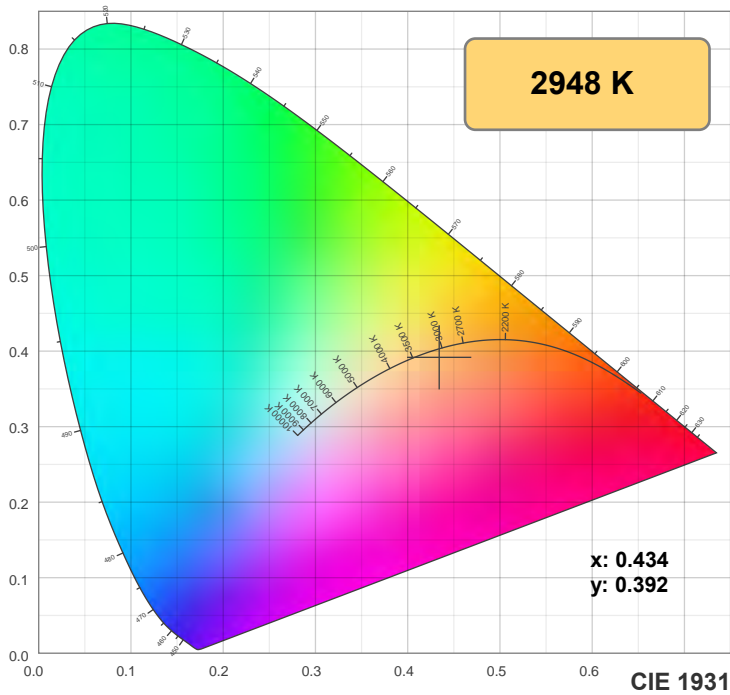


CIE 1931  
x: 0.434  
y: 0.392

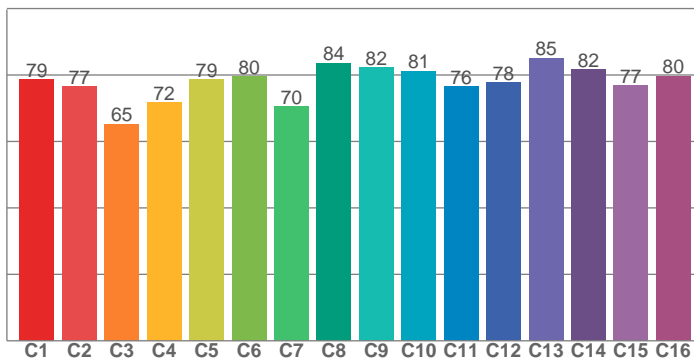
Spectra



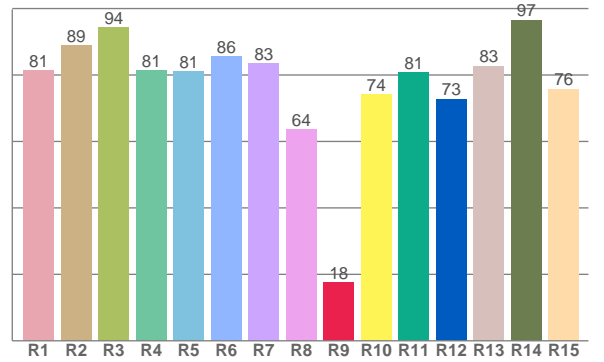
## Color details



**TM30: 77.7**



**CRI: 82.5 (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
81.4	88.8	94.4	81.4	81.1	85.5	83.4	63.7	17.5	74.2	80.9	72.8	82.7	96.6	75.8

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
78.7	76.6	65.3	71.8	78.7	79.5	70.4	83.6	82.3	81.3	76.5	77.8	85.1	81.6	76.8	79.7

## 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
2948 K	82.5	17.5	77.7	101.7	0.434	0.392	0.254	0.344	0.0046

## TM30 details

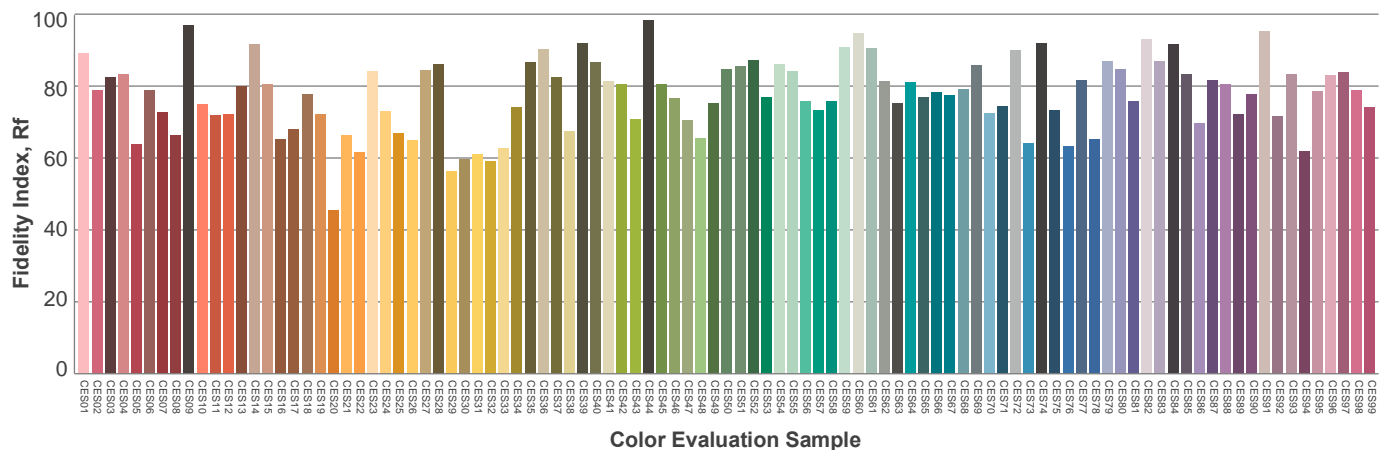
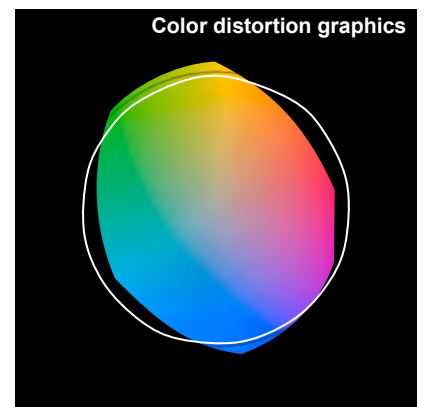
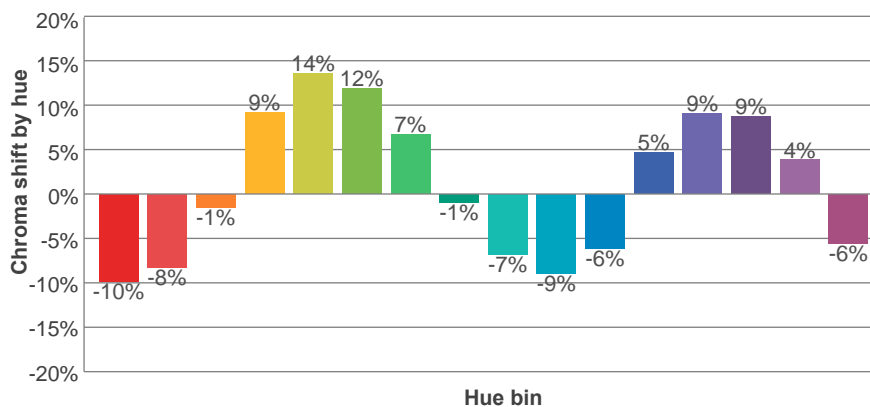
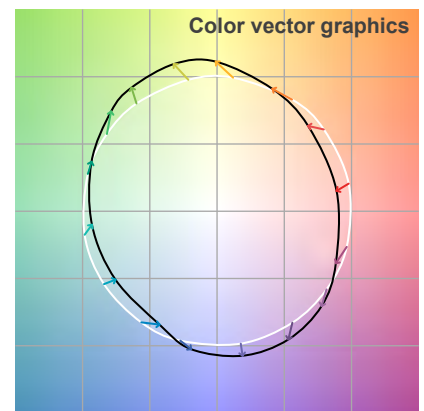
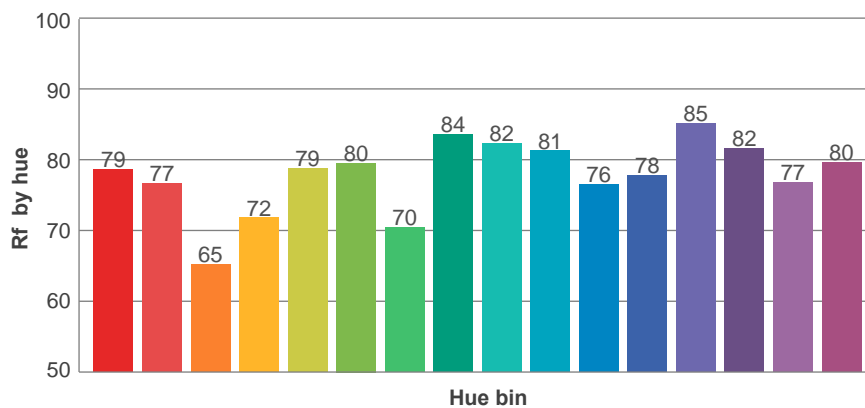
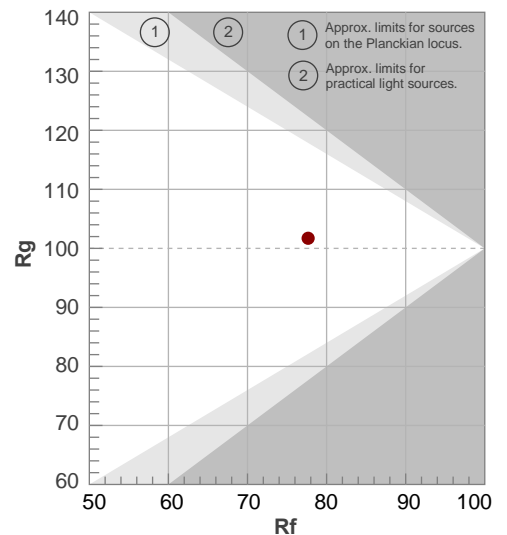
**Rf 77.7**

Fidelity index Rf

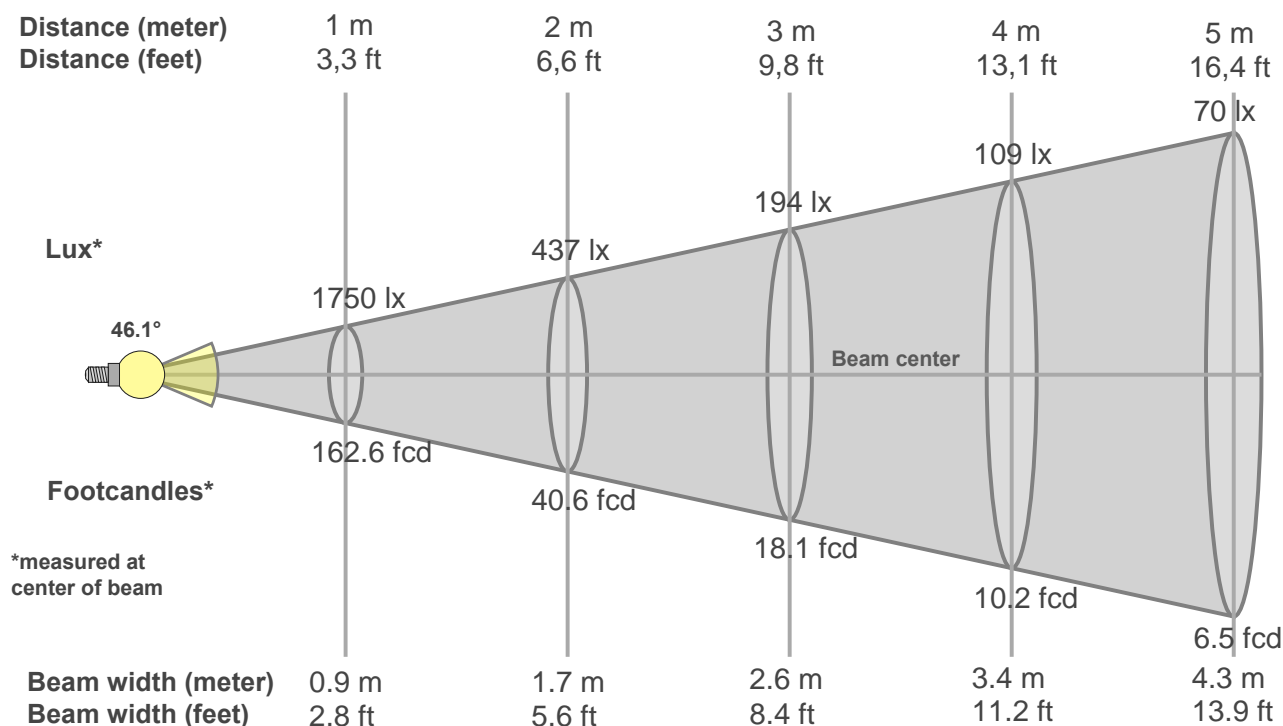
**Rg 101.7**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	-10%	-4%
2	77	-8%	9%
3	65	-1%	17%
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	76	-6%	12%
12	78	5%	9%
13	85	9%	0%
14	82	9%	-9%
15	77	4%	-12%
16	80	-6%	-14%



## 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
1750lx	437lx	194lx	109lx	70lx	49lx	36lx	27lx	22lx	17lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx
162.6fcd	40.6fcd	18.1fcd	10.2fcd	6.5fcd	4.5fcd	3.3fcd	2.5fcd	2fcd	1.6fcd	1.3fcd	1.1fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd

### 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°
1750	1740	1708	1656	1589	1507	1415	1316	1213	1112	1016	924	841	766	680	576	459	339	231	151
100%	99%	98%	95%	91%	86%	81%	75%	69%	64%	58%	53%	48%	44%	39%	33%	26%	19%	13%	9%

### 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°
1750	1737	1703	1651	1583	1501	1409	1308	1204	1103	1006	914	832	757	669	565	451	338	236	154
100%	99%	97%	94%	90%	86%	81%	75%	69%	63%	57%	52%	48%	43%	38%	32%	26%	19%	13%	9%

### 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°
1750	1740	1708	1656	1589	1507	1415	1316	1213	1112	1016	924	841	766	680	576	459	339	231	151
100%	99%	98%	95%	91%	86%	81%	75%	69%	64%	58%	53%	48%	44%	39%	33%	26%	19%	13%	9%

### 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°
1750	1737	1703	1651	1583	1501	1409	1308	1204	1103	1006	914	832	757	669	565	451	338	236	154
100%	99%	97%	94%	90%	86%	81%	75%	69%	63%	57%	52%	48%	43%	38%	32%	26%	19%	13%	9%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
46.1°	74.8°	97.3°	98.1%	94.4%