

Light efficiency:

**59 Lumen/Watt**

Light quality:

**CRI: 82.4**

Color temperature:

**2933 K**

**Output: 1147 lm**

**Peak: 1446 cd**

**Power: 19.3 W**

**PF: 0.99**



Beam angle

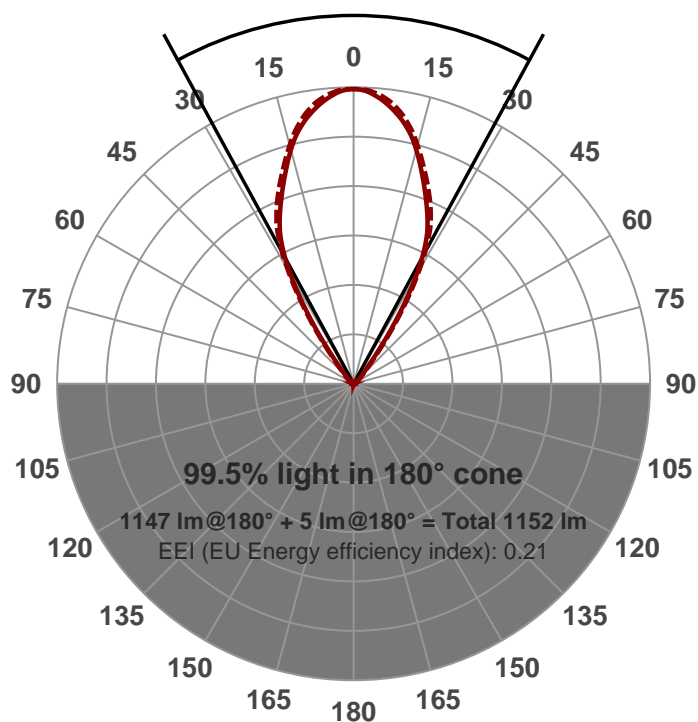
**57°**

Product name:

**730-3-XTM19-20LM-30K-83-SSA60-CRO**

Date and time:

**9/27/2016 10:29:28 AM**

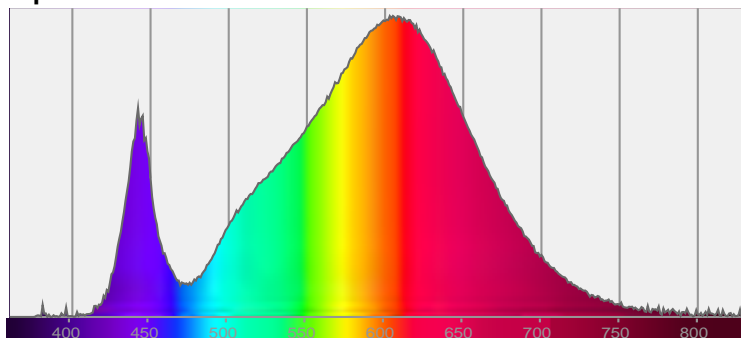


CIE 1931

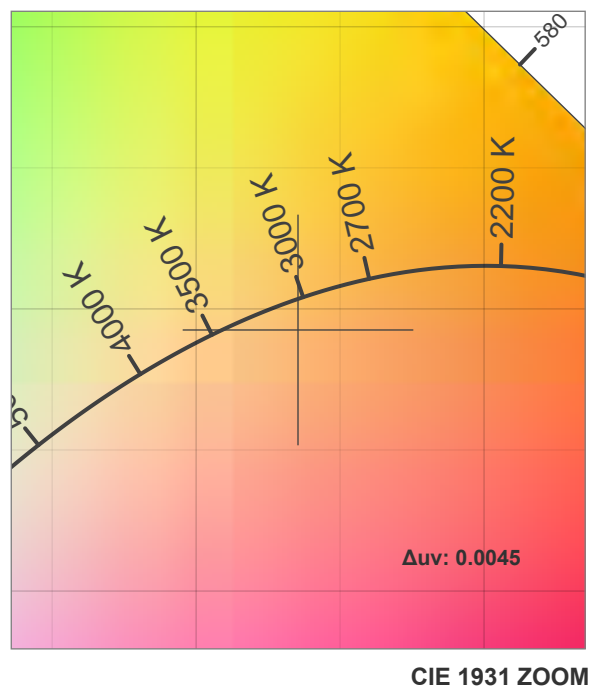
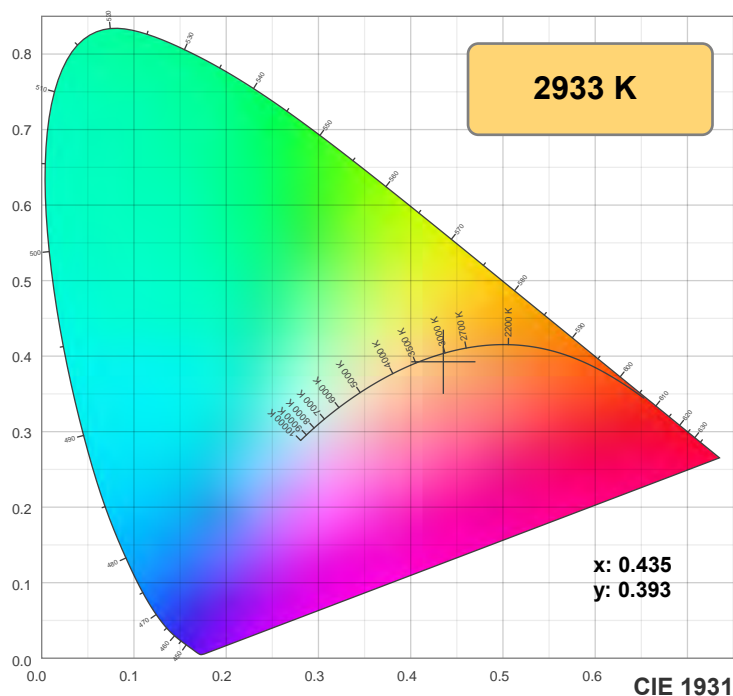
x: 0.435

y: 0.393

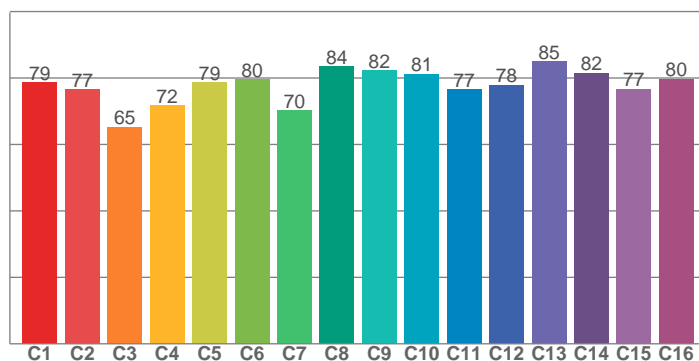
Spectra



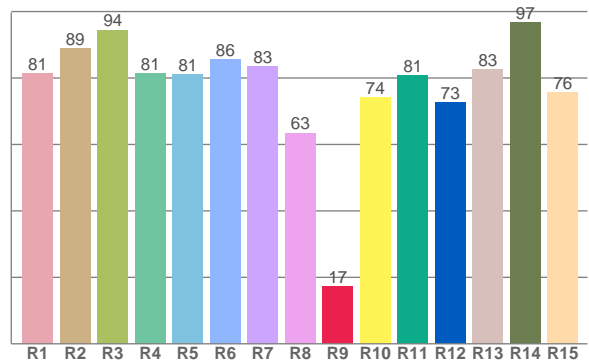
## Color details



**TM30: 77.6**



**CRI: 82.4 (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
81.4	88.8	94.5	81.4	81.0	85.5	83.4	63.5	17.3	74.2	80.8	72.8	82.7	96.6	75.7

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
78.6	76.6	65.3	71.7	78.7	79.5	70.2	83.5	82.2	81.2	76.6	77.9	85.1	81.5	76.7	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
2933 K	82.4	17.3	77.6	101.7	0.435	0.393	0.255	0.344	0.0045

## TM30 details

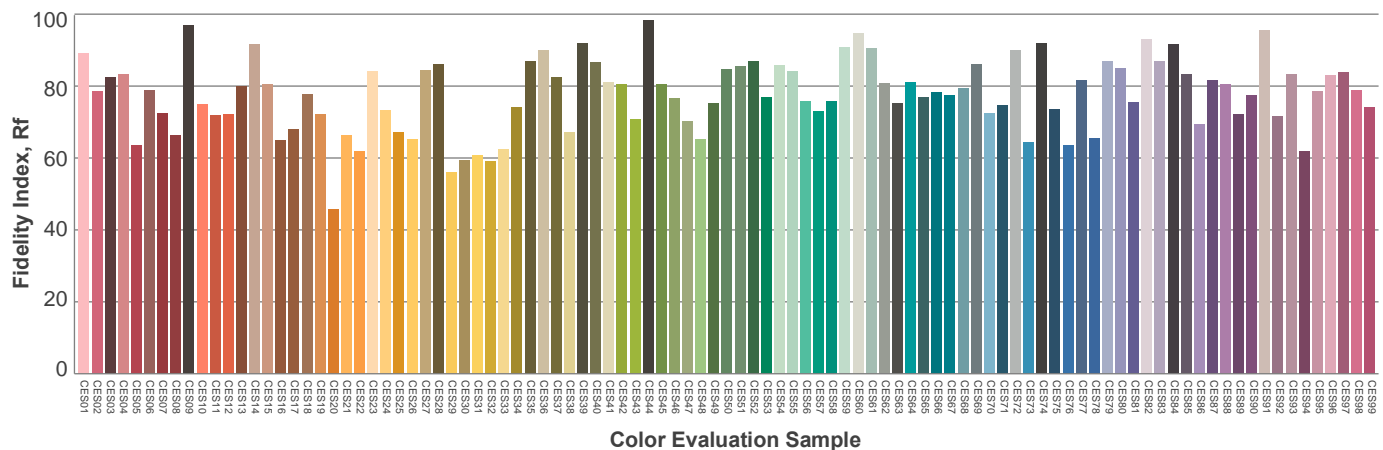
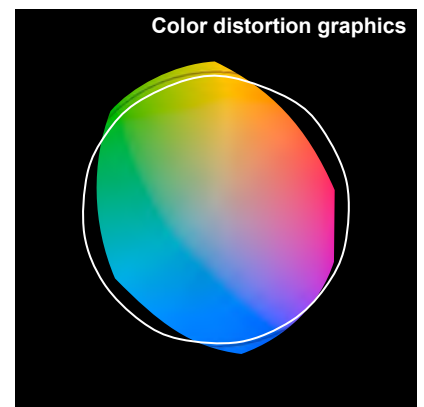
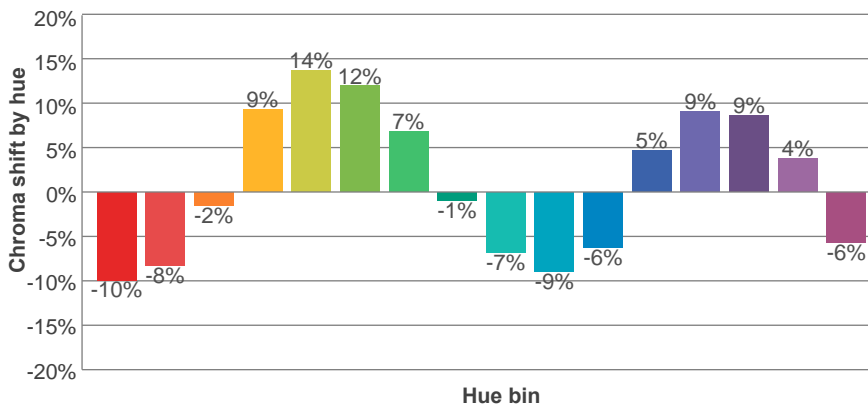
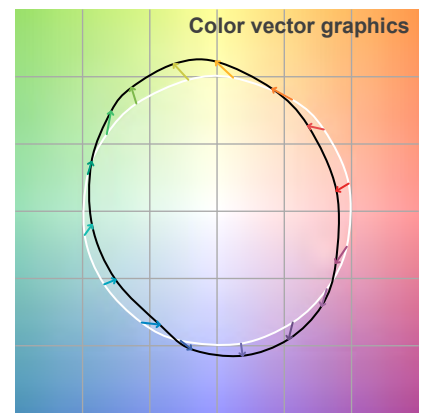
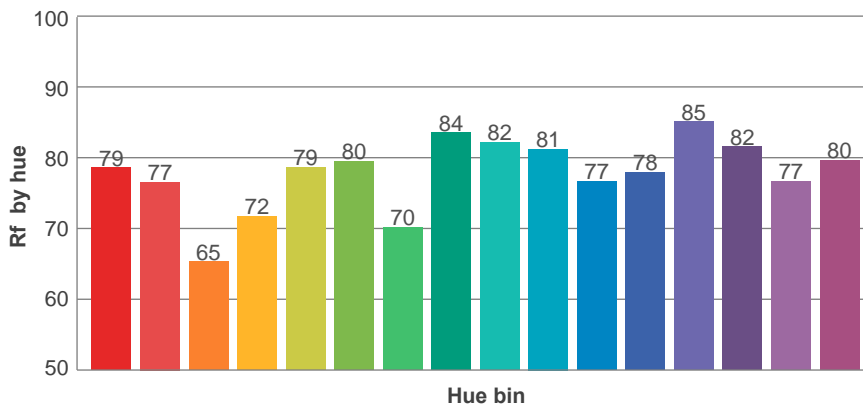
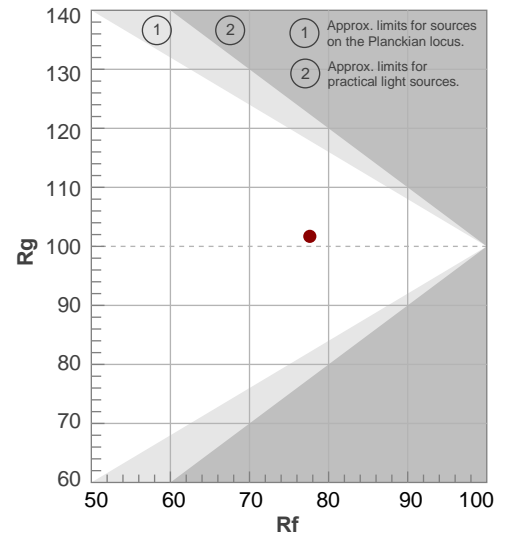
**Rf 77.6**

Fidelity index Rf

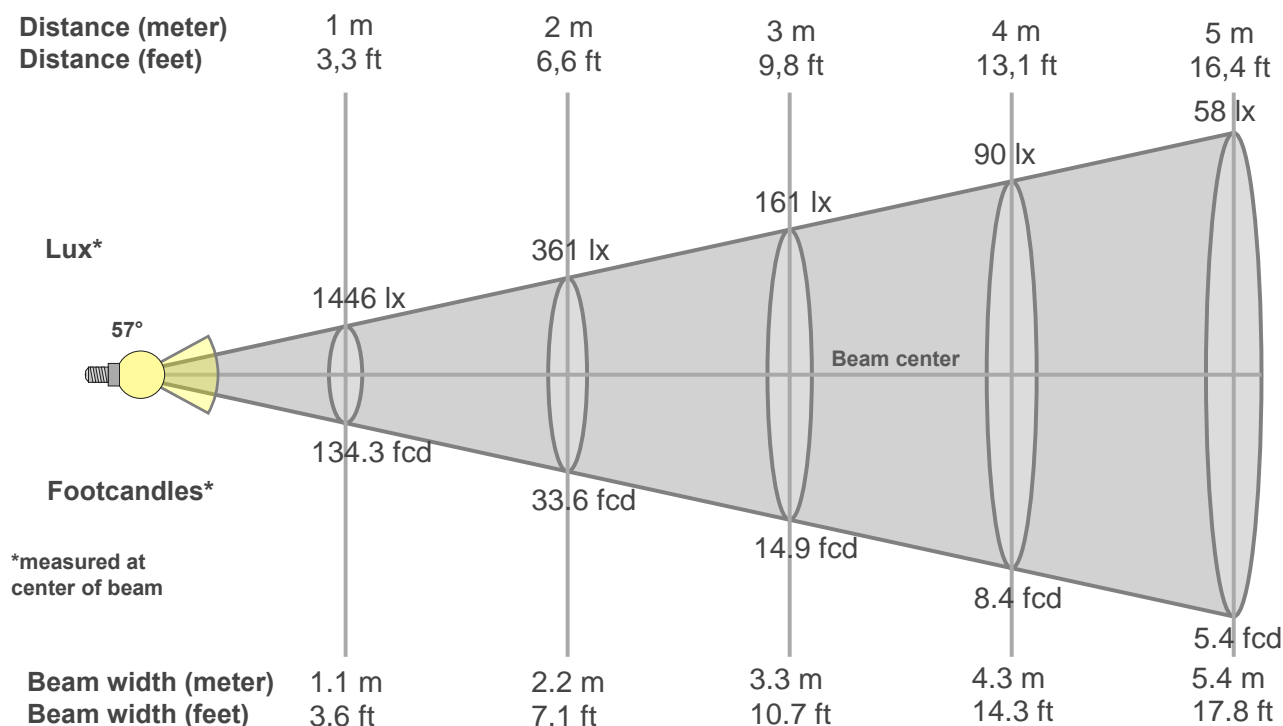
**Rg 101.7**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	-10%	-4%
2	77	-8%	9%
3	65	-2%	17%
4	72	9%	15%
5	79	14%	8%
6	80	12%	-4%
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%	-10%
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
1446lx	361lx	161lx	90lx	58lx	40lx	30lx	23lx	18lx	14lx	12lx	10lx	9lx	7lx	6lx	6lx	5lx	4lx	4lx	4lx
134.3fcd	33.6fcd	14.9fcd	8.4fcd	5.4fcd	3.7fcd	2.7fcd	2.1fcd	1.7fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd

### 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°
1446	1439	1420	1394	1361	1323	1276	1220	1154	1084	1018	954	890	823	731	616	487	357	242	156
100%	100%	98%	96%	94%	92%	88%	84%	80%	75%	70%	66%	62%	57%	51%	43%	34%	25%	17%	11%

### 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°
1446	1444	1432	1413	1386	1348	1299	1243	1179	1115	1053	992	929	860	763	647	521	393	279	189
100%	100%	99%	98%	96%	93%	90%	86%	82%	77%	73%	69%	64%	59%	53%	45%	36%	27%	19%	13%

### 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°
1446	1439	1420	1394	1361	1323	1276	1220	1154	1084	1018	954	890	823	731	616	487	357	242	156
100%	100%	98%	96%	94%	92%	88%	84%	80%	75%	70%	66%	62%	57%	51%	43%	34%	25%	17%	11%

### 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°
1446	1444	1432	1413	1386	1348	1299	1243	1179	1115	1053	992	929	860	763	647	521	393	279	189
100%	100%	99%	98%	96%	93%	90%	86%	82%	77%	73%	69%	64%	59%	53%	45%	36%	27%	19%	13%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
57°	77.7°	98.7°	98.4%	95.2%