

Light efficiency:

84 Lumen/Watt

Light quality:

CRI: 81.7

Color temperature:

2961 K

Output: 1661 lm

Peak: 4209 cd

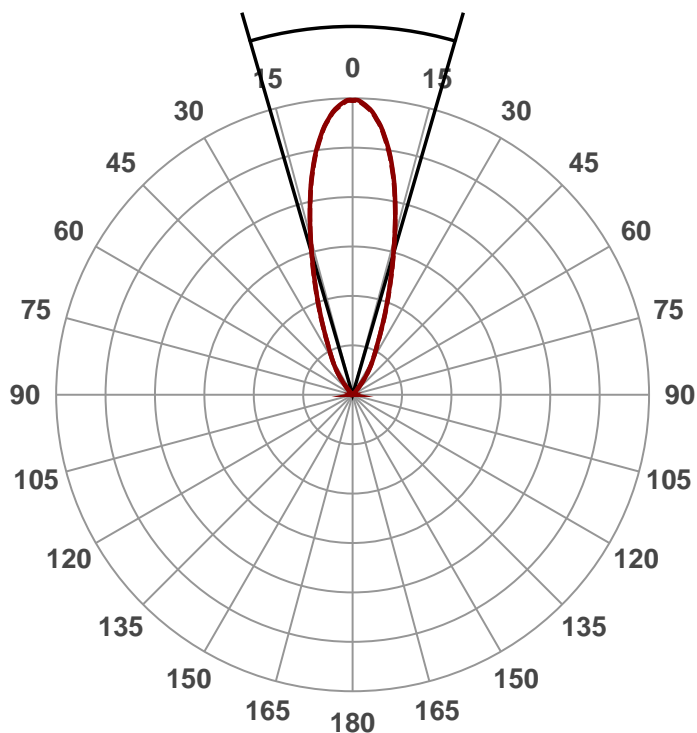
Power: 19.8 W

PF: 0.99



Beam angle

32.3°



Product name:

731-3-XTM19-20LM-30K-83-SA40

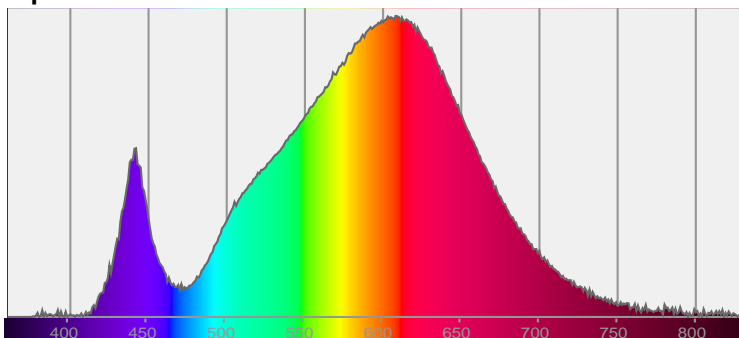
Date and time:

11/29/2016 10:33:52 AM

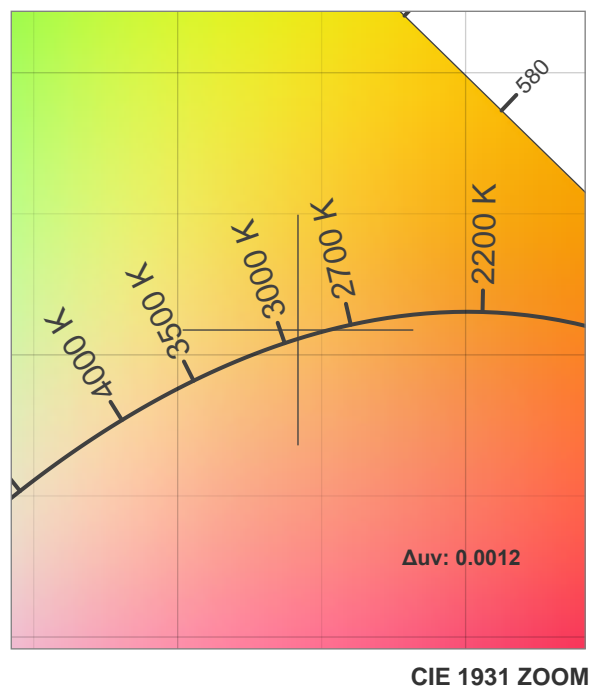
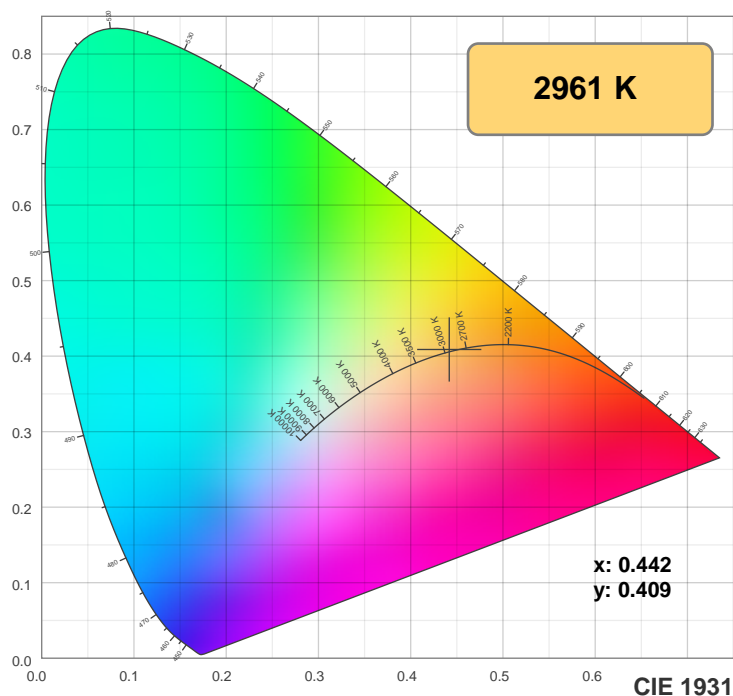


CIE 1931  
x: 0.442  
y: 0.409

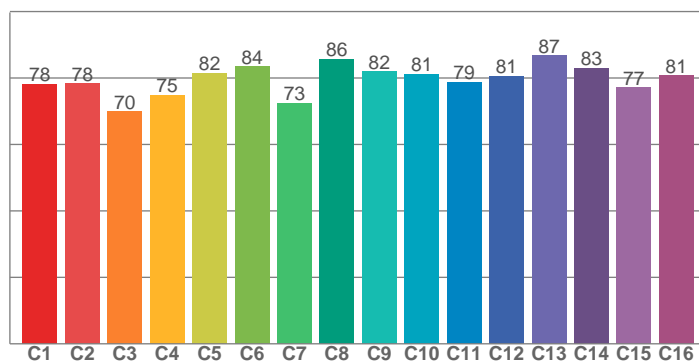
Spectra



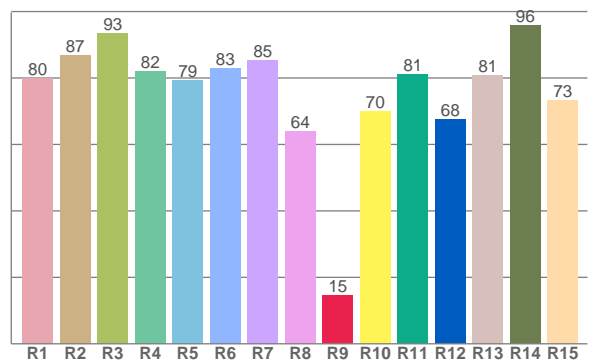
## Color details



**TM30: 79.5**



**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
79.9	86.8	93.4	82.0	79.3	82.9	85.3	63.9	14.7	69.9	81.1	67.6	80.8	95.9	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
78.2	78.3	70.0	74.9	81.6	83.5	72.5	85.7	82.0	81.2	78.8	80.6	86.8	83.0	77.2	80.7

## 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
2961 K	81.7	14.7	79.5	99.5	0.442	0.409	0.252	0.349	0.0012

## TM30 details

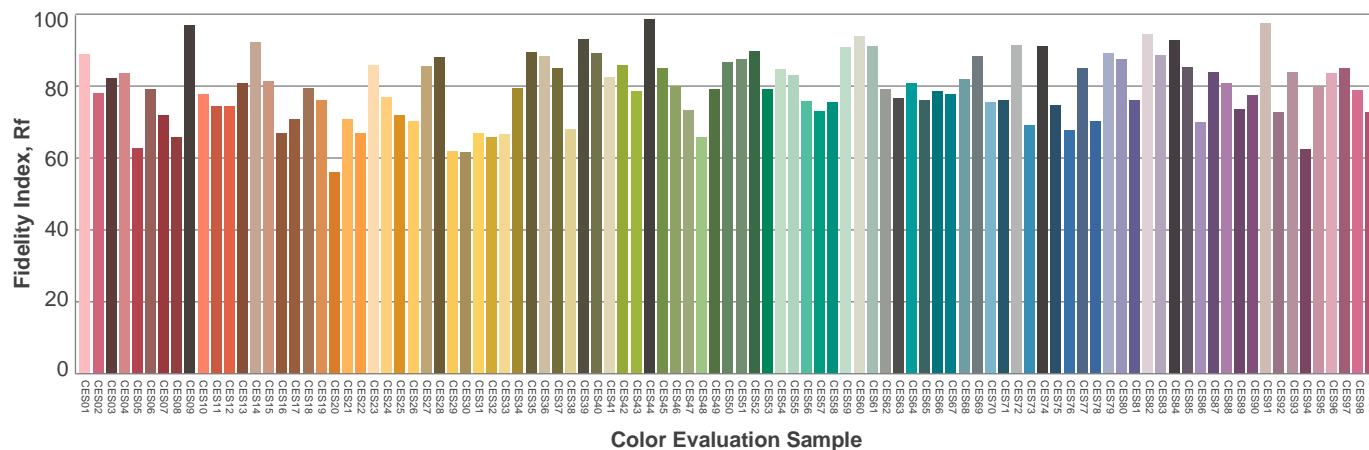
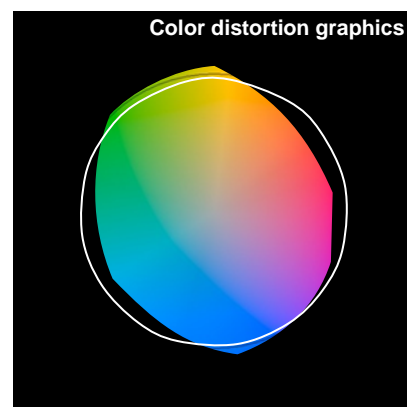
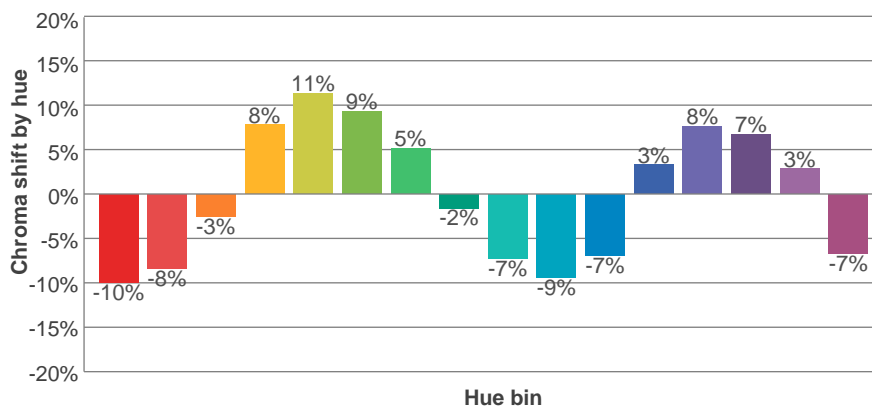
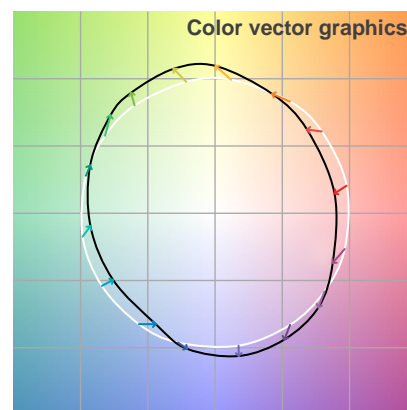
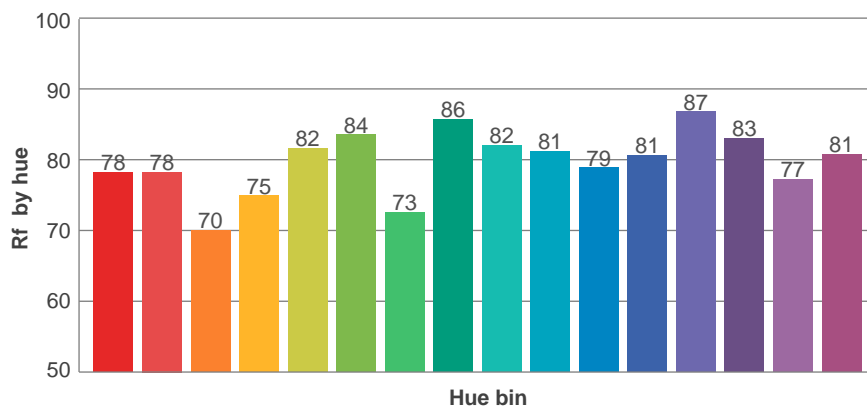
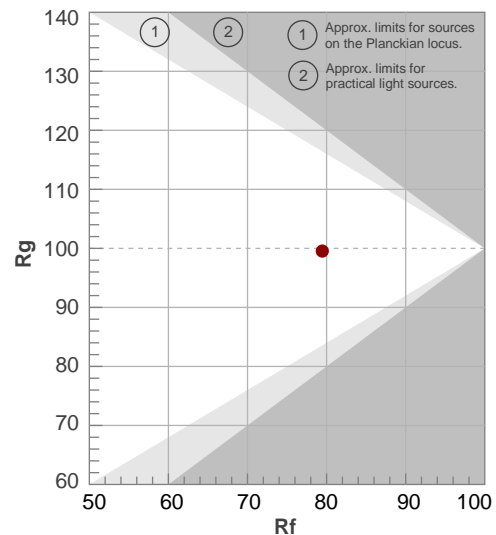
**Rf 79.5**

Fidelity index Rf

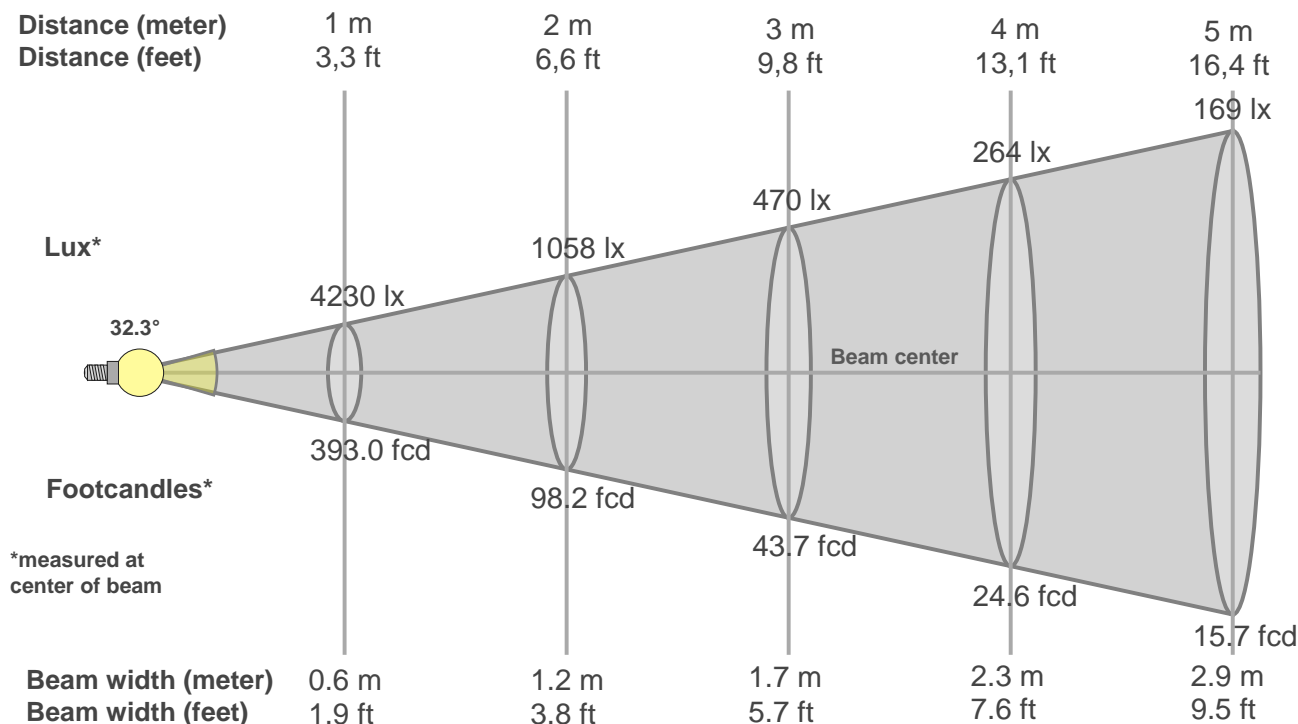
**Rg 99.5**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	78	-10%	-4%
2	78	-8%	7%
3	70	-3%	14%
4	75	8%	13%
5	82	11%	7%
6	84	9%	-3%
7	73	5%	-15%
8	86	-2%	-8%
9	82	-7%	-6%
10	81	-9%	1%
11	79	-7%	10%
12	81	3%	7%
13	87	8%	-1%
14	83	7%	-10%
15	77	3%	-12%
16	81	-7%	-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
4230lx	1058lx	470lx	264lx	169lx	118lx	86lx	66lx	52lx	42lx	35lx	29lx	25lx	22lx	19lx	17lx	15lx	13lx	12lx	11lx
393fcd	98.2fcd	43.7fcd	24.6fcd	15.7fcd	10.9fcd	8fcd	6.1fcd	4.9fcd	3.9fcd	3.2fcd	2.7fcd	2.3fcd	2fcd	1.7fcd	1.5fcd	1.4fcd	1.2fcd	1.1fcd	1fcd

### 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°
4230	4190	4071	3876	3612	3291	2922	2524	2130	1787	1487	1224	997	815	690	586	491	396	299	204
100%	99%	96%	92%	85%	78%	69%	60%	50%	42%	35%	29%	24%	19%	16%	14%	12%	9%	7%	5%

### 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°
4230	4185	4069	3876	3602	3283	2918	2529	2143	1806	1505	1242	1008	821	693	585	488	393	294	197
100%	99%	96%	92%	85%	78%	69%	60%	51%	43%	36%	29%	24%	19%	16%	14%	12%	9%	7%	5%

### 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°
4230	4190	4071	3876	3612	3291	2922	2524	2130	1787	1487	1224	997	815	690	586	491	396	299	204
100%	99%	96%	92%	85%	78%	69%	60%	50%	42%	35%	29%	24%	19%	16%	14%	12%	9%	7%	5%

### 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°
4230	4185	4069	3876	3602	3283	2918	2529	2143	1806	1505	1242	1008	821	693	585	488	393	294	197
100%	99%	96%	92%	85%	78%	69%	60%	51%	43%	36%	29%	24%	19%	16%	14%	12%	9%	7%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32.3°	66.9°	80.8°	99.6%	99.3%