

Light efficiency:

72 Lumen/Watt

Light quality:

CRI: 82.5

Color temperature:

2937 K

Output: 1406 lm

Peak: 7239 cd

Power: 19.5 W

PF: 0.99



Beam angle

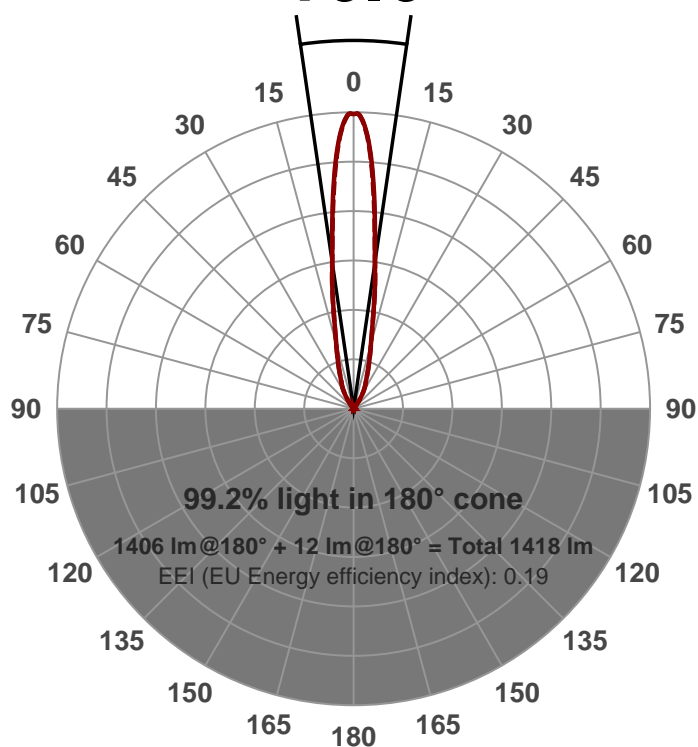
16.6°

Product name:

730-3-XTM19-20LM-30K-83-SA20-CLR

Date and time:

9/27/2016 10:11:15 AM

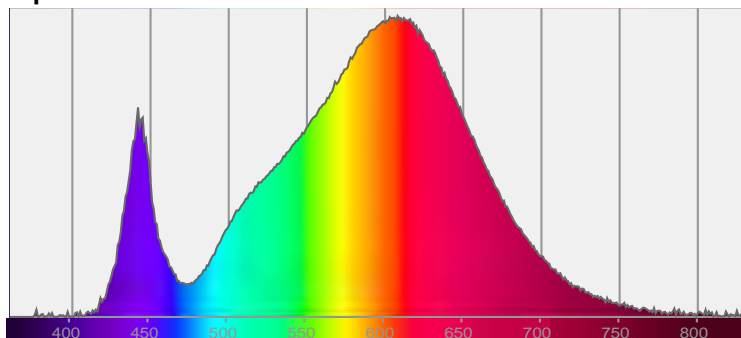


CIE 1931

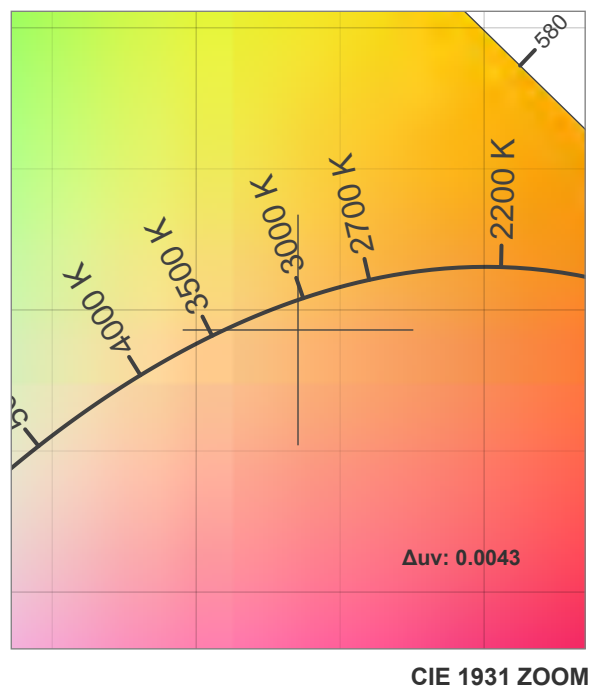
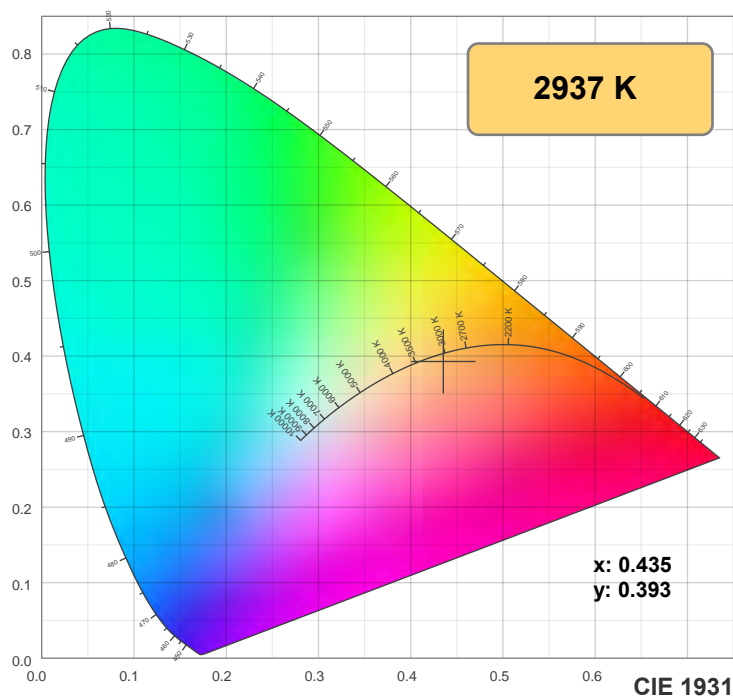
x: 0.435

y: 0.393

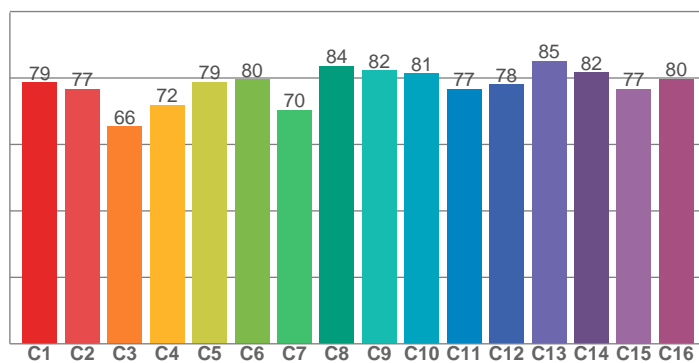
Spectra



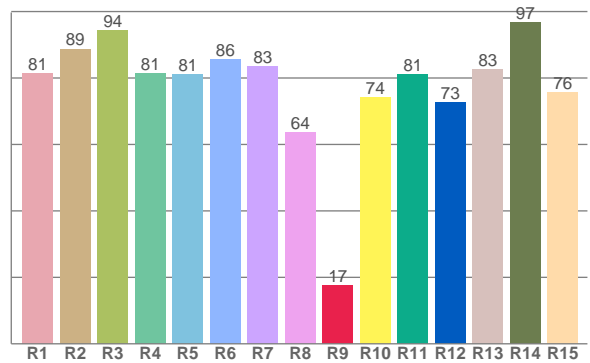
## Color details



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	94.5	81.5	81.1	85.5	83.5	63.6	17.5	74.2	81.0	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	76.7	65.5	71.9	78.8	79.6	70.4	83.6	82.3	81.3	76.7	78.0	85.1	81.6	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
2937 K	82.5	17.5	77.7	101.7	0.435	0.393	0.254	0.344	0.0043

## TM30 details

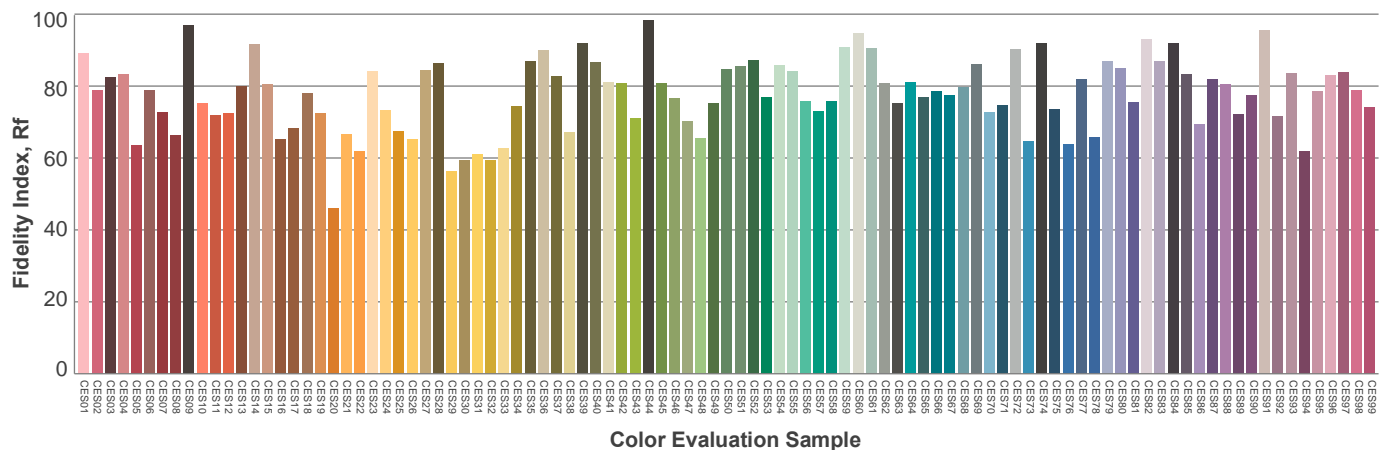
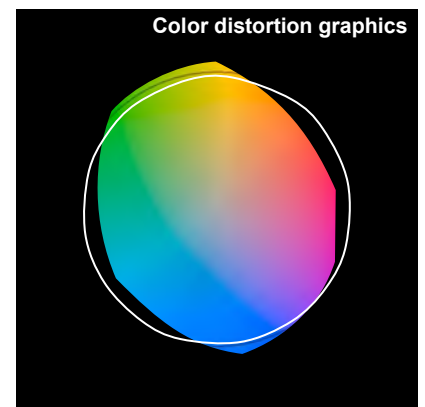
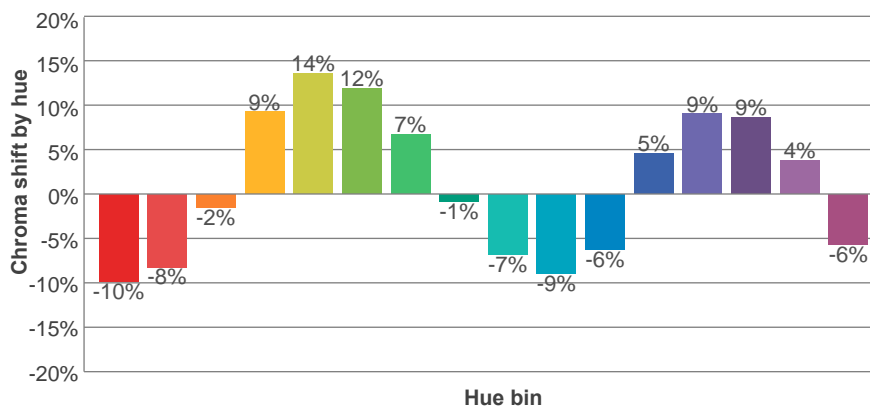
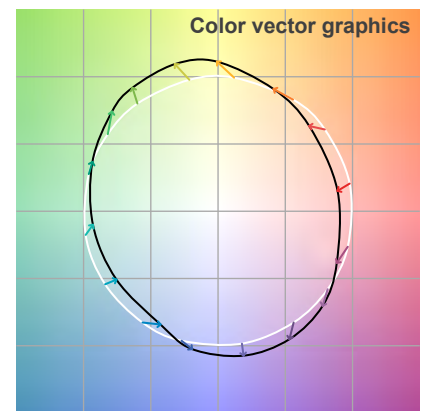
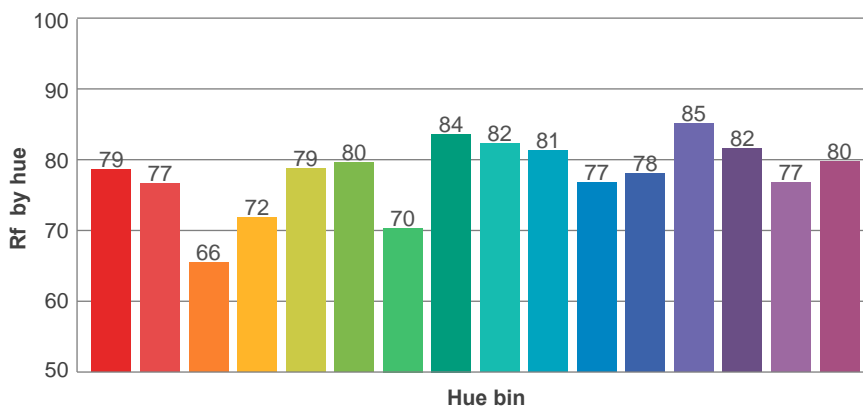
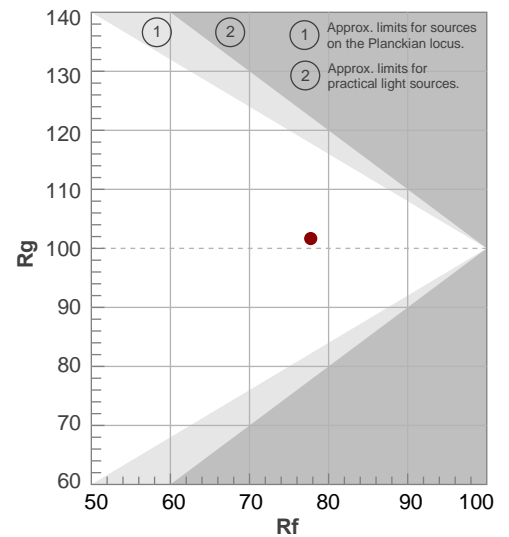
**Rf 77.7**

Fidelity index Rf

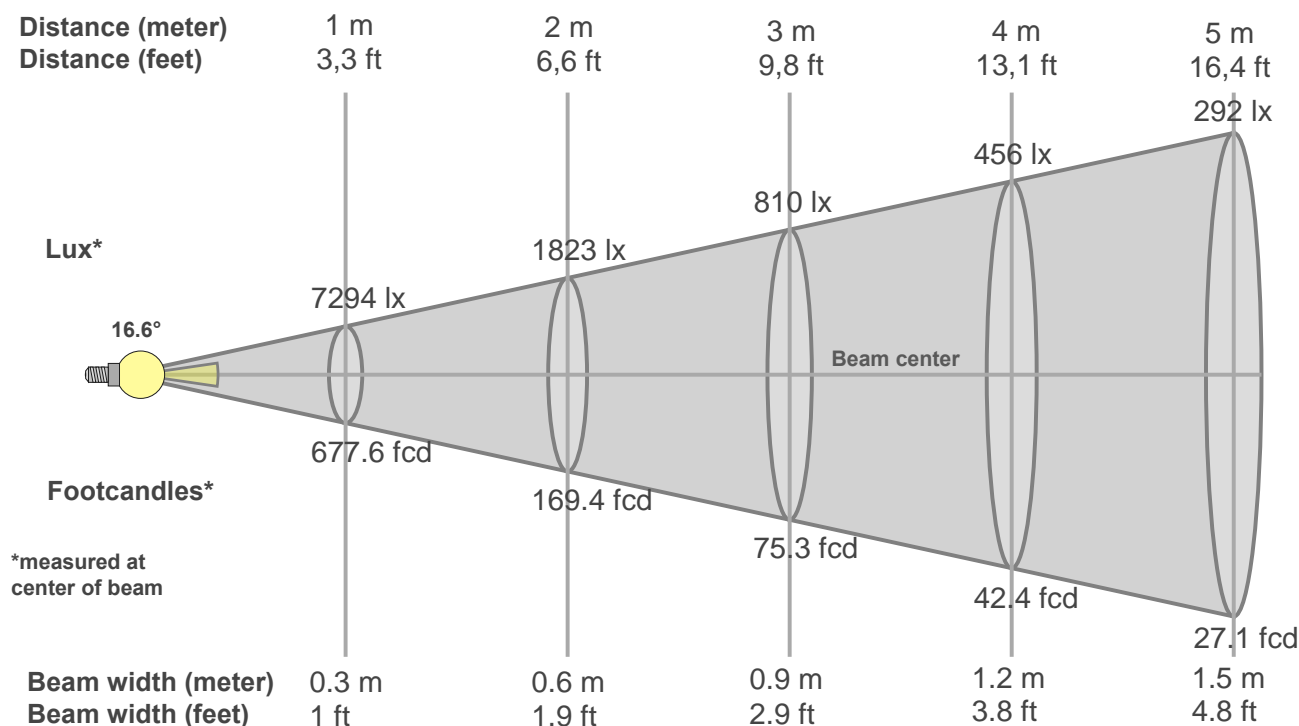
**Rg 101.7**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	-10%	-4%
2	77	-8%	9%
3	66	-2%	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%	-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
7294lx	1823lx	810lx	456lx	292lx	203lx	149lx	114lx	90lx	73lx	60lx	51lx	43lx	37lx	32lx	28lx	25lx	23lx	20lx	18lx
677.6fcd	169.4fcd	75.3fcd	42.4fcd	27.1fcd	18.8fcd	13.8fcd	10.6fcd	8.4fcd	6.8fcd	5.6fcd	4.7fcd	4fcd	3.5fcd	3fcd	2.6fcd	2.3fcd	2.1fcd	1.9fcd	1.7fcd

### 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°
7294	7024	6172	4936	3759	3003	2302	1821	1495	1256	1057	884	751	662	571	466	348	234	134	60
100%	96%	85%	68%	52%	41%	32%	25%	21%	17%	14%	12%	10%	9%	8%	6%	5%	3%	2%	1%

### 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°
7294	7005	6108	4861	3764	3024	2317	1830	1504	1253	1048	875	744	657	563	456	344	237	142	68
100%	96%	84%	67%	52%	41%	32%	25%	21%	17%	14%	12%	10%	9%	8%	6%	5%	3%	2%	1%

### 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°
7294	7024	6172	4936	3759	3003	2302	1821	1495	1256	1057	884	751	662	571	466	348	234	134	60
100%	96%	85%	68%	52%	41%	32%	25%	21%	17%	14%	12%	10%	9%	8%	6%	5%	3%	2%	1%

### 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°
7294	7005	6108	4861	3764	3024	2317	1830	1504	1253	1048	875	744	657	563	456	344	237	142	68
100%	96%	84%	67%	52%	41%	32%	25%	21%	17%	14%	12%	10%	9%	8%	6%	5%	3%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16.6°	48.8°	70.2°	98.3%	96.6%