

Light efficiency:

**58 Lumen/Watt**

Light quality:

**CRI: 82.6**

Color temperature:

**2945 K**

**Output: 1128 lm**

**Peak: 2188 cd**

**Power: 19.4 W**

**PF: 0.99**



Beam angle

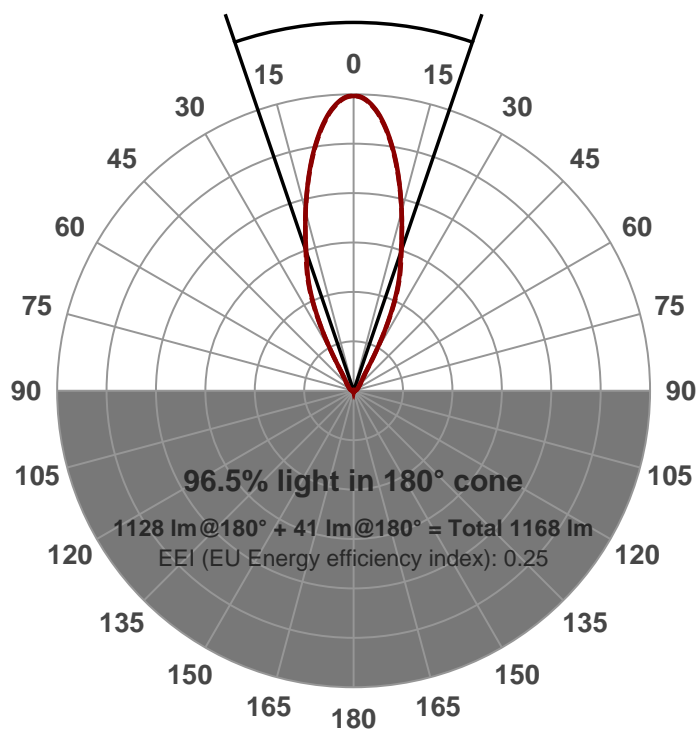
**37.6°**

Product name:

**730-3-XTM19-20LM-30K-83-DA20-CRO**

Date and time:

**9/29/2016 2:57:03 PM**

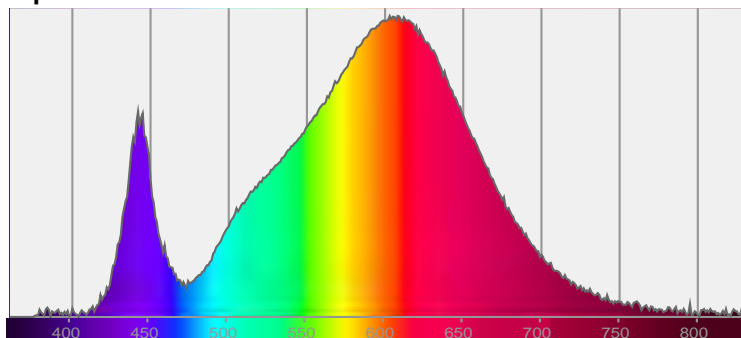


CIE 1931

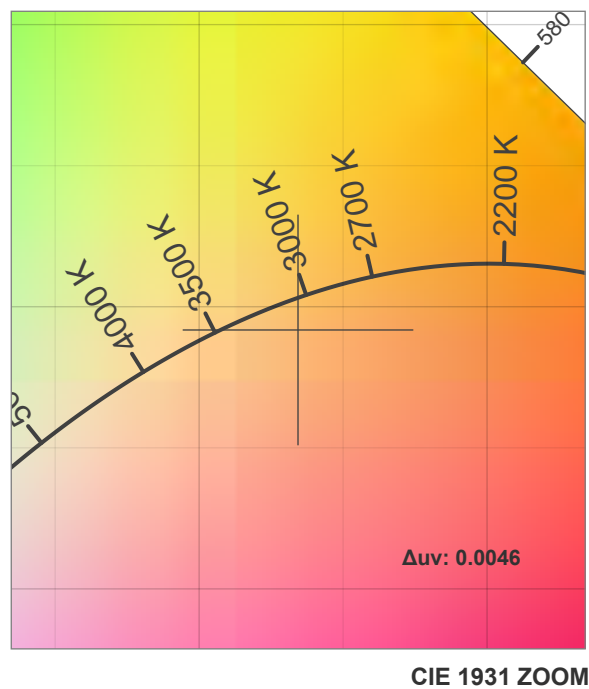
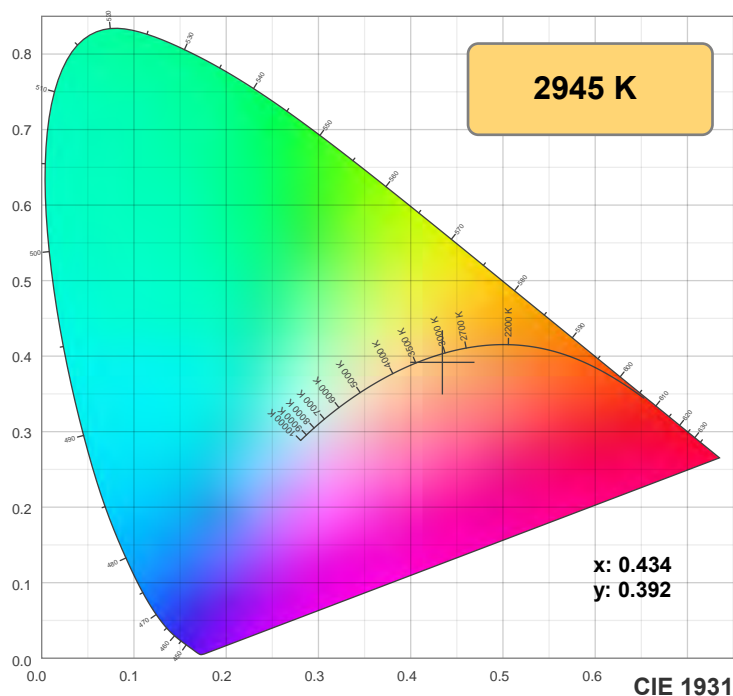
x: 0.434

y: 0.392

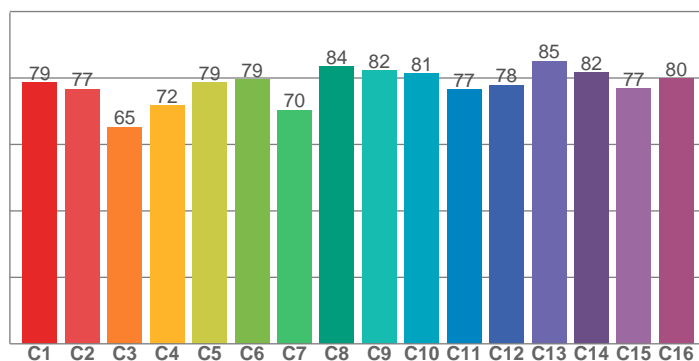
Spectra



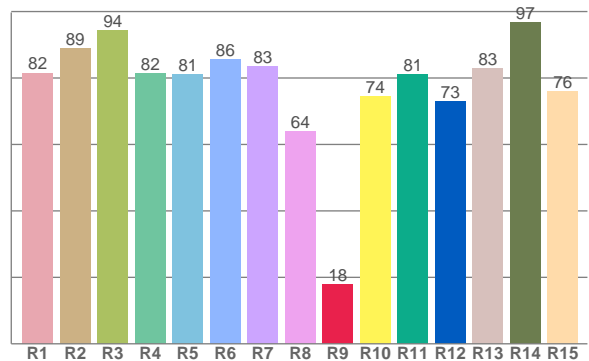
## Color details



**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
81.5	88.9	94.4	81.5	81.2	85.6	83.5	63.8	18.0	74.4	81.0	73.0	82.8	96.6	75.9

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	71.7	78.7	79.5	70.3	83.6	82.3	81.3	76.6	77.9	85.1	81.7	76.9	79.9

## 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	$\Delta uv$
2945 K	82.6	18.0	77.7	101.8	0.434	0.392	0.254	0.344	0.0046

## TM30 details

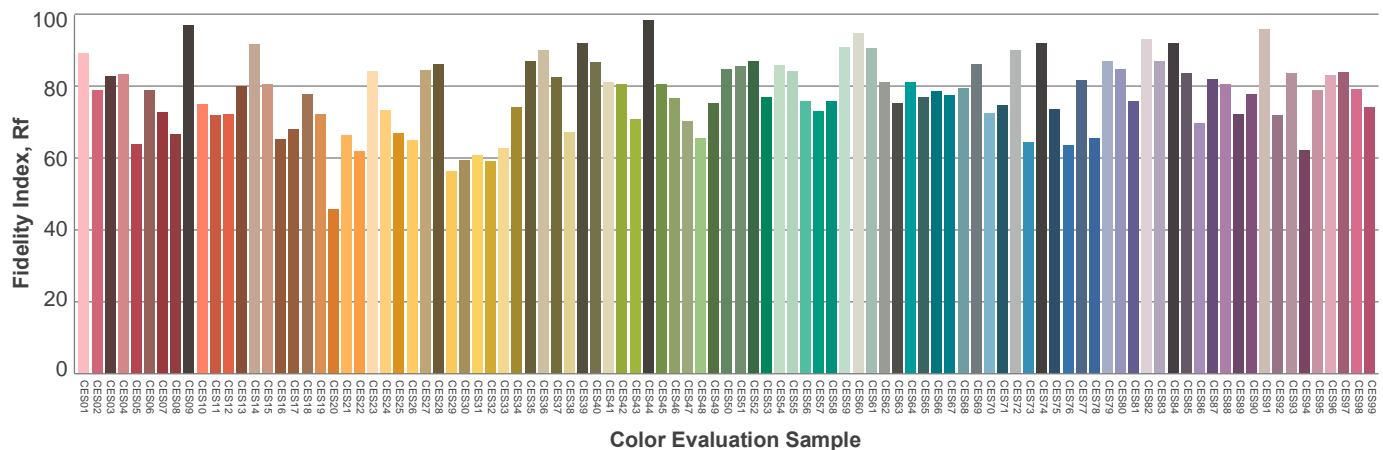
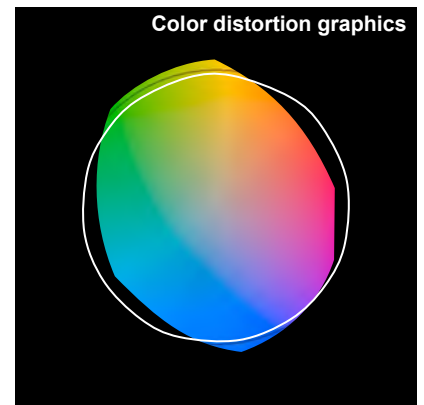
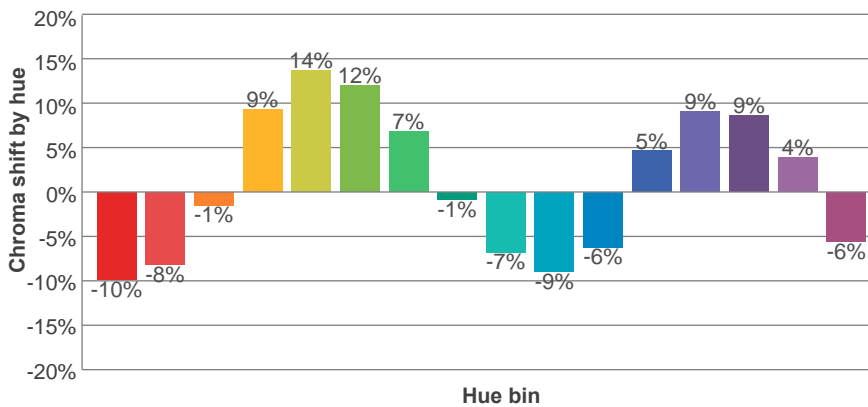
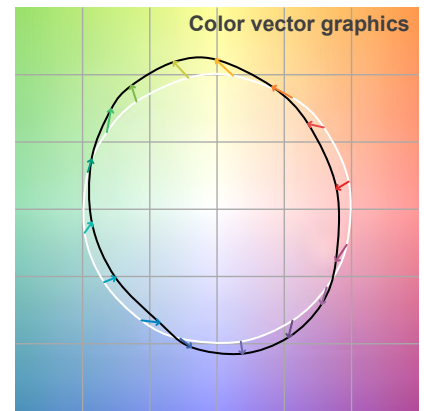
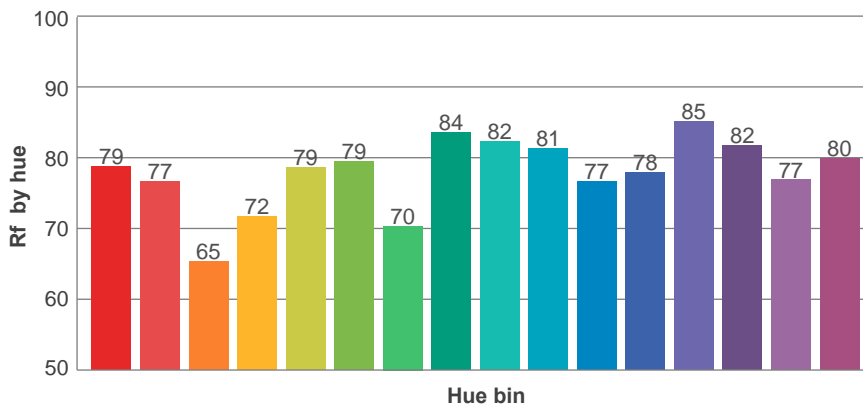
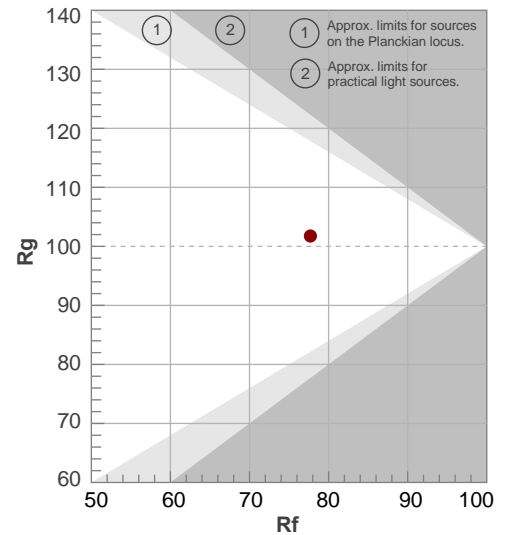
**Rf 77.7**

Fidelity index Rf

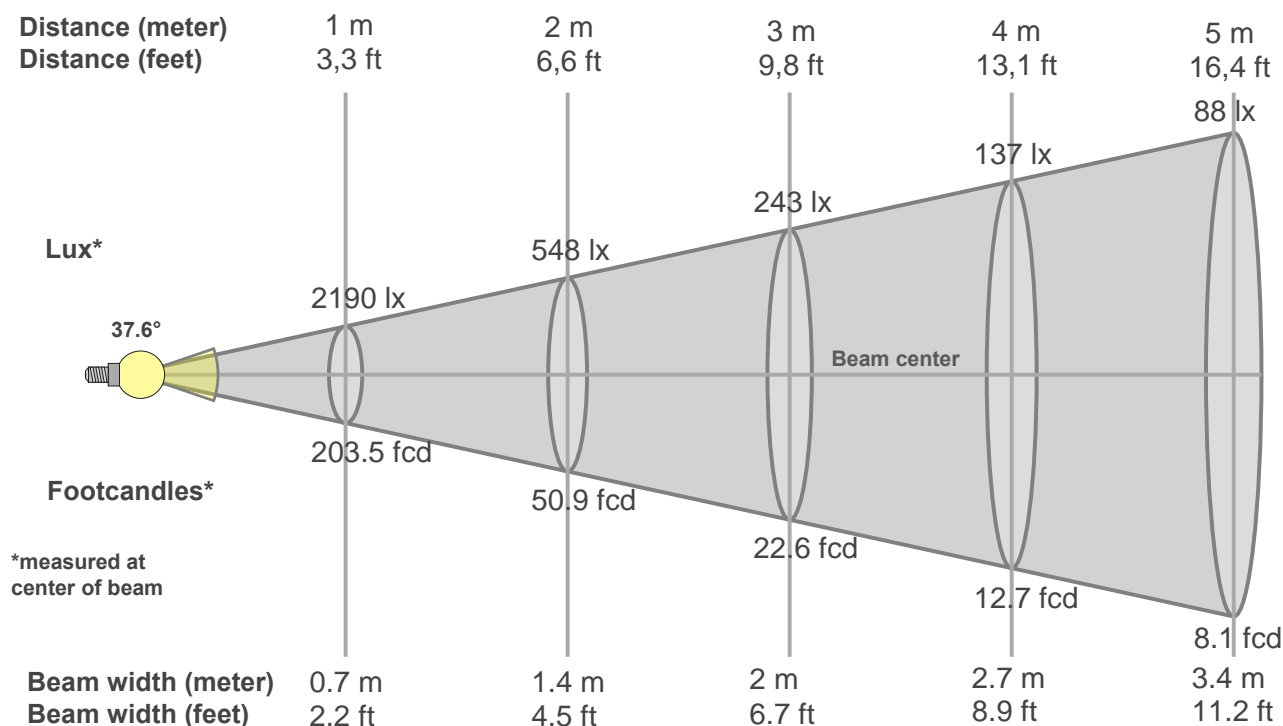
**Rg 101.8**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	-10%	-4%
2	77	-8%	9%
3	65	-1%	17%
4	72	9%	15%
5	79	14%	8%
6	79	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%	0%
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
2190lx	548lx	243lx	137lx	88lx	61lx	45lx	34lx	27lx	22lx	18lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx	5lx
203.5fcd	50.9fcd	22.6fcd	12.7fcd	8.1fcd	5.7fcd	4.2fcd	3.2fcd	2.5fcd	2fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd

### 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°
2190	2170	2111	2019	1899	1762	1610	1453	1299	1148	1016	902	765	611	454	312	204	147	122	104
100%	99%	96%	92%	87%	80%	74%	66%	59%	52%	46%	41%	35%	28%	21%	14%	9%	7%	6%	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°
2190	2166	2106	2012	1893	1756	1605	1451	1300	1155	1028	915	783	625	461	315	210	154	129	110
100%	99%	96%	92%	86%	80%	73%	66%	59%	53%	47%	42%	36%	29%	21%	14%	10%	7%	6%	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°
2190	2170	2111	2019	1899	1762	1610	1453	1299	1148	1016	902	765	611	454	312	204	147	122	104
100%	99%	96%	92%	87%	80%	74%	66%	59%	52%	46%	41%	35%	28%	21%	14%	9%	7%	6%	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°
2190	2166	2106	2012	1893	1756	1605	1451	1300	1155	1028	915	783	625	461	315	210	154	129	110
100%	99%	96%	92%	86%	80%	73%	66%	59%	53%	47%	42%	36%	29%	21%	14%	10%	7%	6%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37.6°	63.5°	98.4°	90.8%	85.4%