

Light efficiency:

68 Lumen/Watt

Light quality:

CRI: 82.6

Color temperature:

2939 K

Output: 1322 lm

Peak: 4048 cd

Power: 19.4 W

PF: 0.99



Beam angle

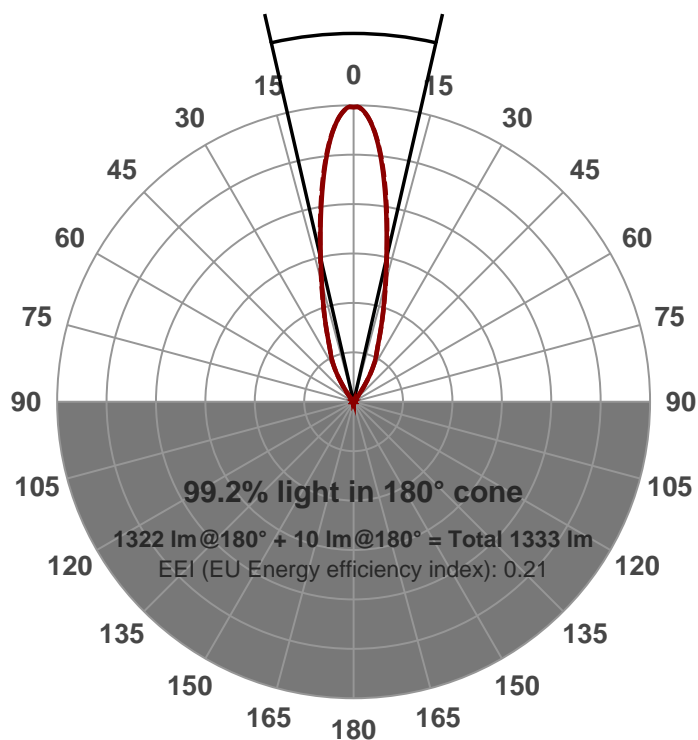
25.8°

Product name:

730-3-XTM19-20LM-30K-83-SSA20-CLR

Date and time:

9/27/2016 10:52:57 AM

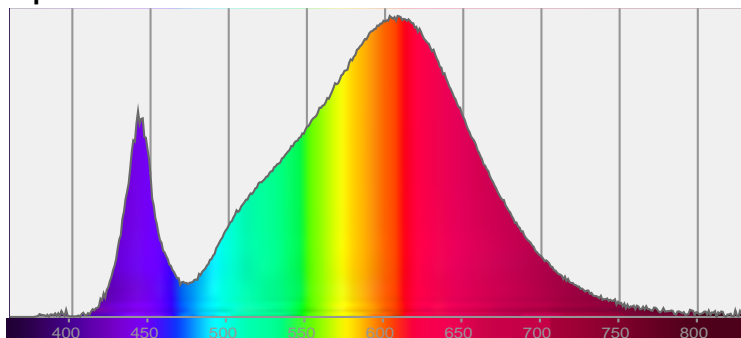


CIE 1931

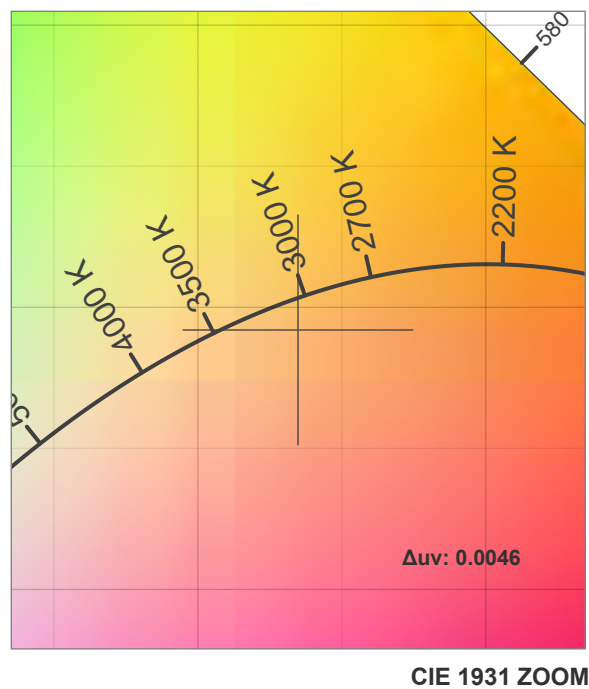
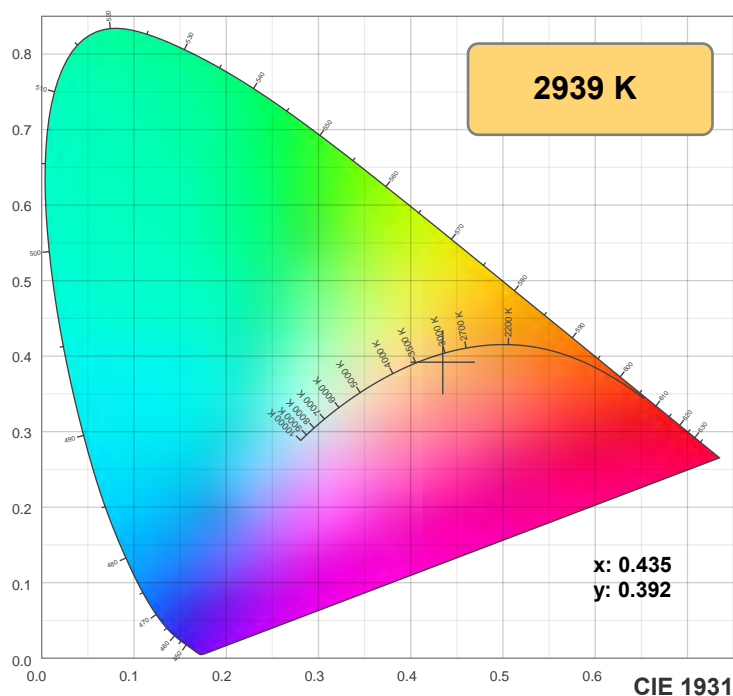
x: 0.435

y: 0.392

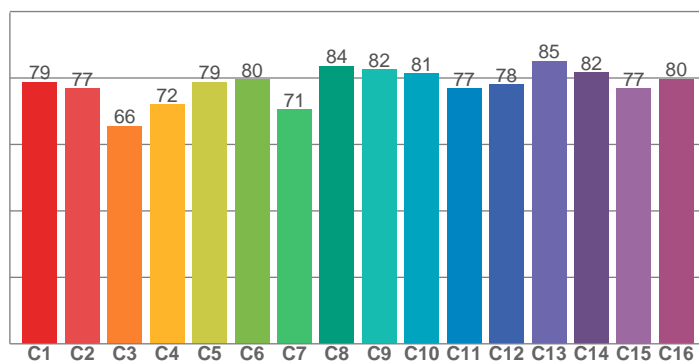
Spectra



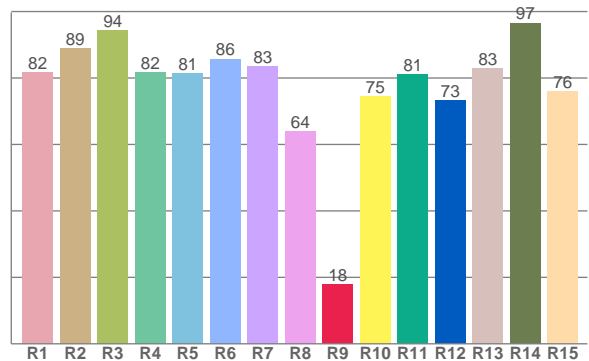
## Color details



TM30: 77.8



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
81.7	89.0	94.5	81.6	81.3	85.8	83.5	63.8	18.0	74.5	81.1	73.2	83.0	96.6	76.1

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
78.8	76.8	65.5	71.9	78.8	79.6	70.6	83.7	82.5	81.4	76.8	78.0	85.1	81.6	76.9	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
2939 K	82.6	18.0	77.8	101.8	0.435	0.392	0.254	0.344	0.0046

## TM30 details

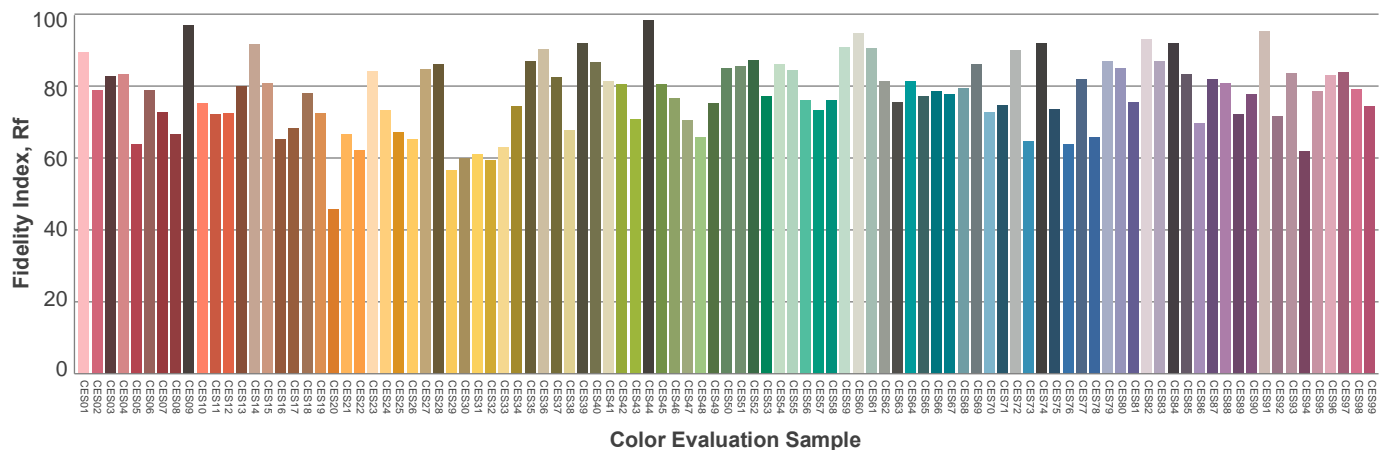
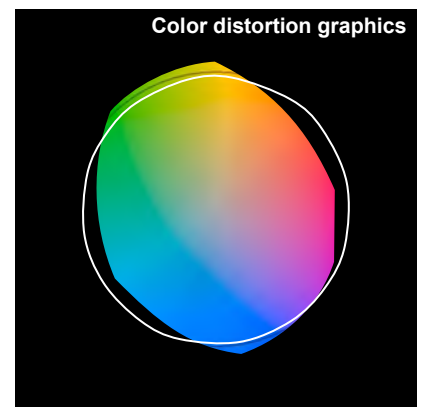
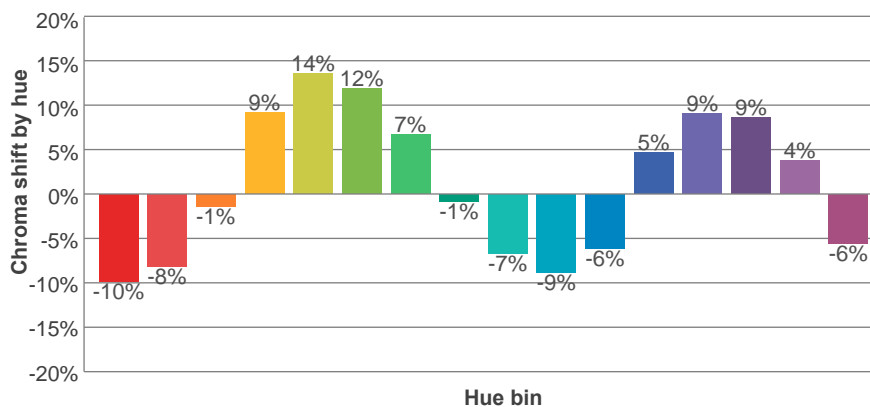
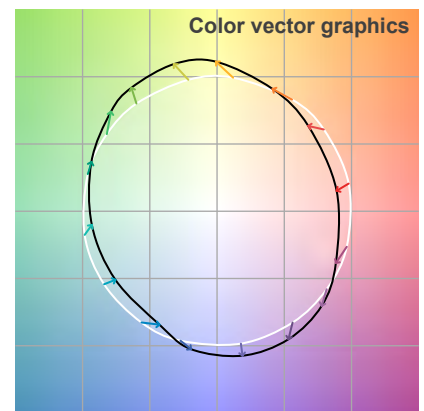
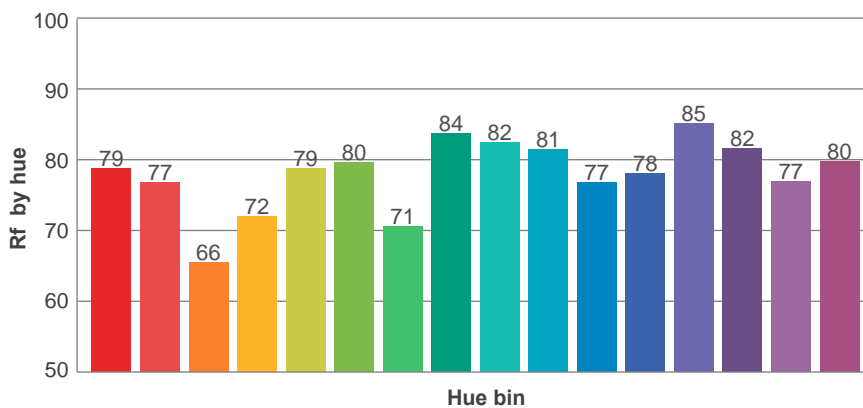
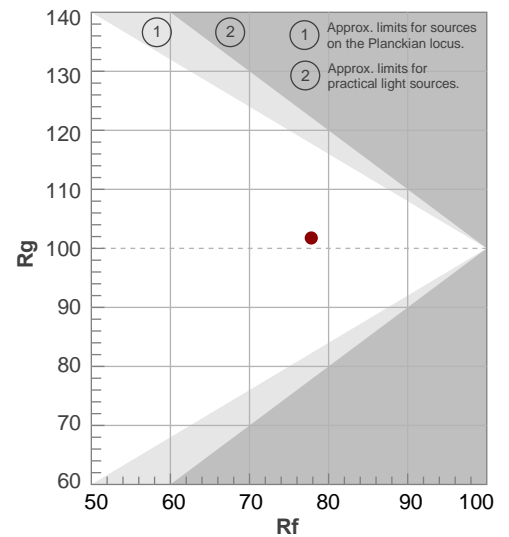
**Rf 77.8**

Fidelity index Rf

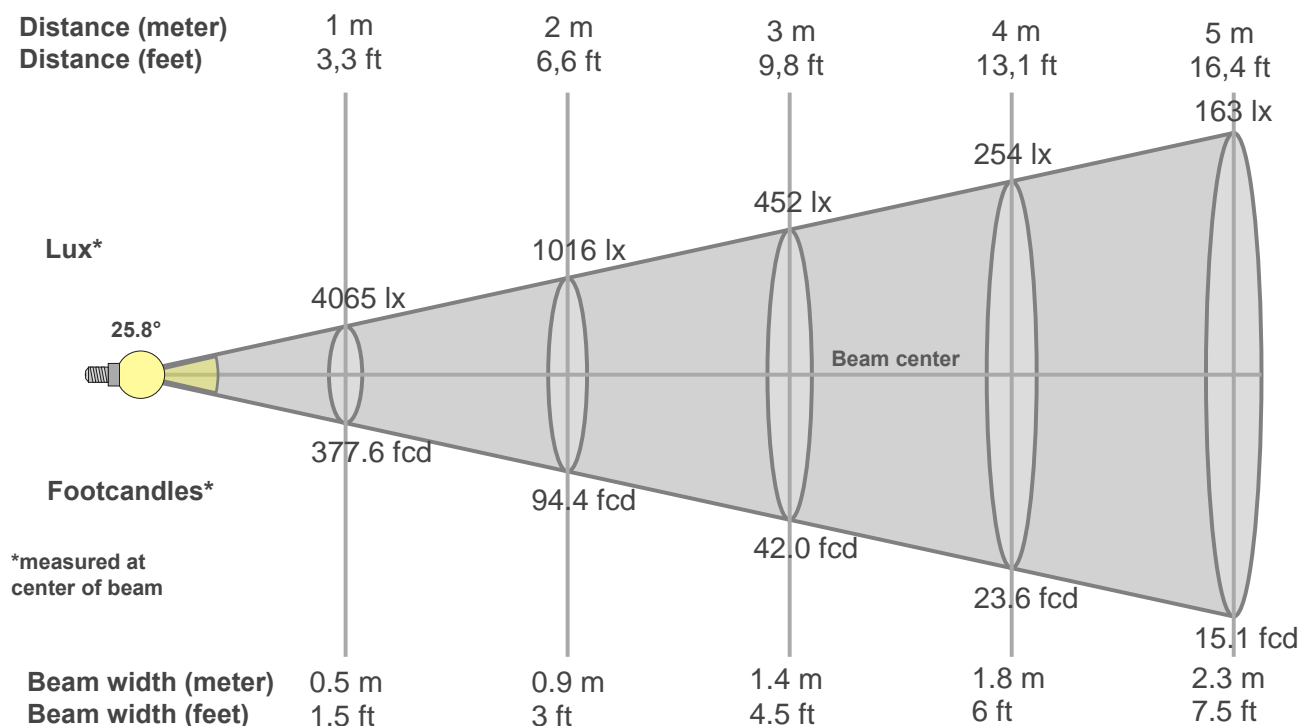
**Rg 101.8**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	-10%	-3%
2	77	-8%	9%
3	66	-1%	16%
4	72	9%	15%
5	79	14%	8%
6	80	12%	-3%
7	71	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%	-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
4065lx	1016lx	452lx	254lx	163lx	113lx	83lx	64lx	50lx	41lx	34lx	28lx	24lx	21lx	18lx	16lx	14lx	13lx	11lx	10lx
377.6fcd	94.4fcd	42fcd	23.6fcd	15.1fcd	10.5fcd	7.7fcd	5.9fcd	4.7fcd	3.8fcd	3.1fcd	2.6fcd	2.2fcd	1.9fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd	1fcd	0.9fcd

### 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°
4065	3995	3781	3444	3027	2591	2186	1840	1554	1316	1114	940	804	709	613	502	378	257	152	77
100%	98%	93%	85%	74%	64%	54%	45%	38%	32%	27%	23%	20%	17%	15%	12%	9%	6%	4%	2%

### 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°
4065	3991	3786	3464	3061	2625	2215	1863	1573	1328	1120	942	805	710	611	499	380	264	162	84
100%	98%	93%	85%	75%	65%	54%	46%	39%	33%	28%	23%	20%	17%	15%	12%	9%	6%	4%	2%

### 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°
4065	3995	3781	3444	3027	2591	2186	1840	1554	1316	1114	940	804	709	613	502	378	257	152	77
100%	98%	93%	85%	74%	64%	54%	45%	38%	32%	27%	23%	20%	17%	15%	12%	9%	6%	4%	2%

### 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°
4065	3991	3786	3464	3061	2625	2215	1863	1573	1328	1120	942	805	710	611	499	380	264	162	84
100%	98%	93%	85%	75%	65%	54%	46%	39%	33%	28%	23%	20%	17%	15%	12%	9%	6%	4%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25.8°	63.1°	74.8°	98.2%	96.4%