

Light efficiency:

68 Lumen/Watt

Light quality:

CRI: 83.1

Color temperature:

2936 K

Output: 1320 lm

Peak: 2281 cd

Power: 19.4 W

PF: 0.99



Beam angle

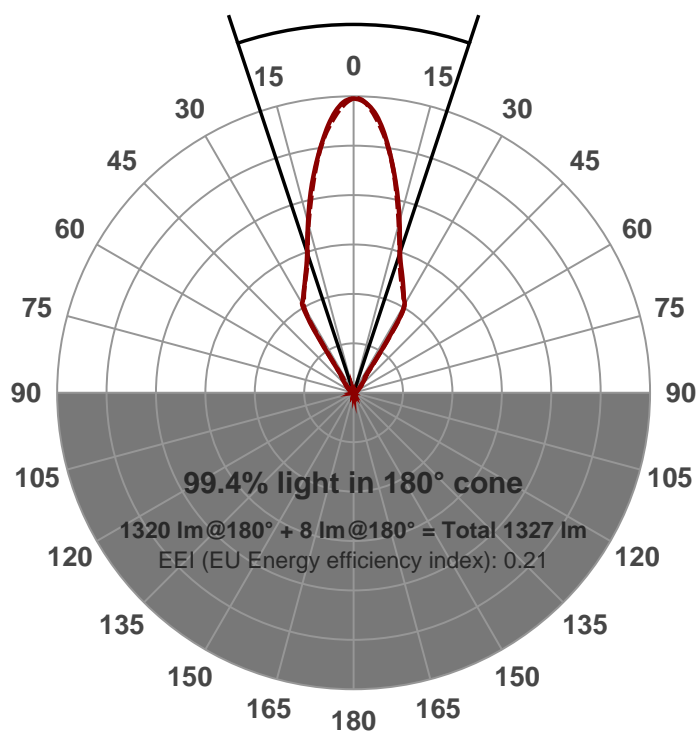
36.7°

Product name:

680-3-XTM19-20LM-30K-83

Date and time:

9/26/2016 3:52:53 PM

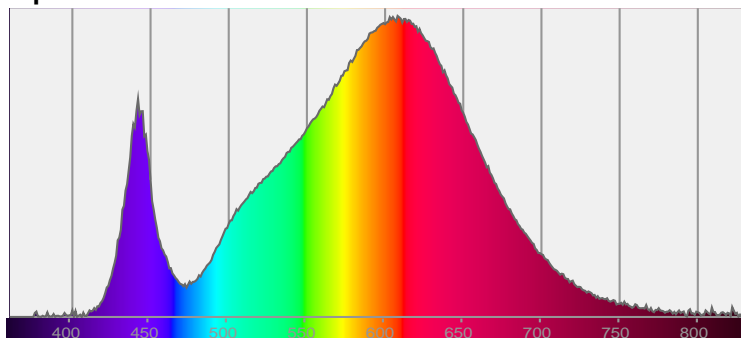


CIE 1931

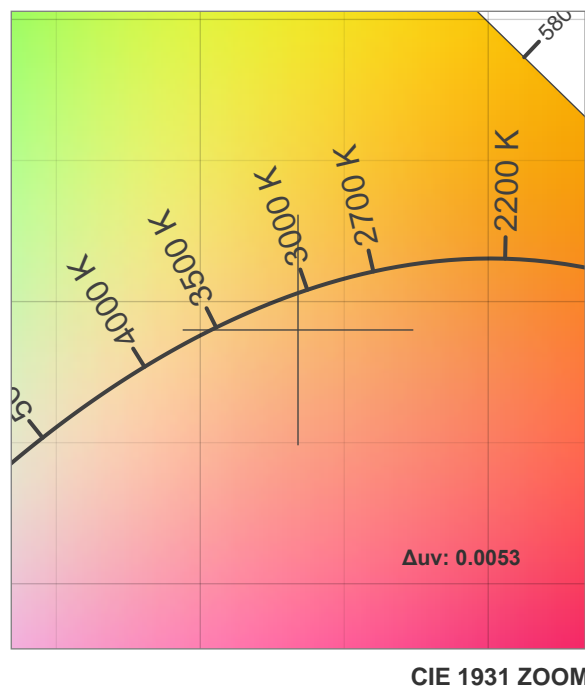
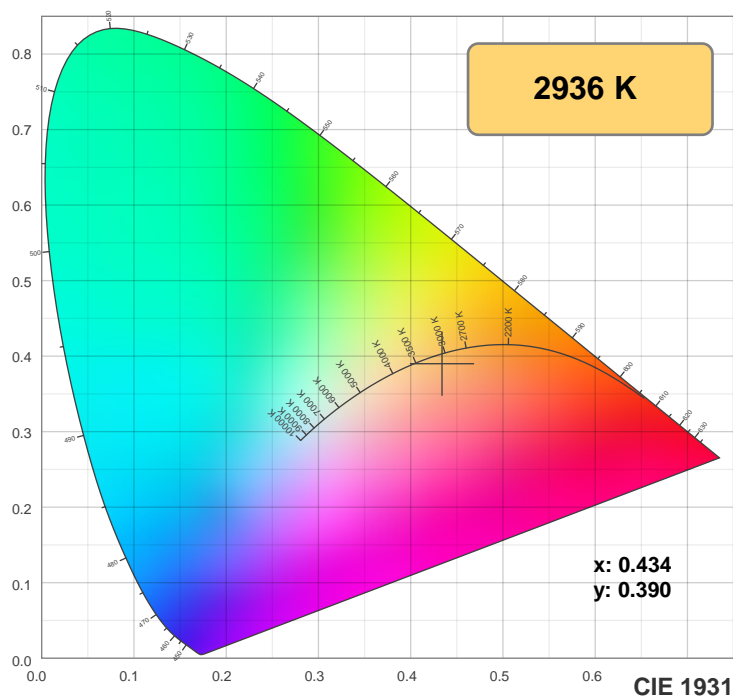
x: 0.434

y: 0.390

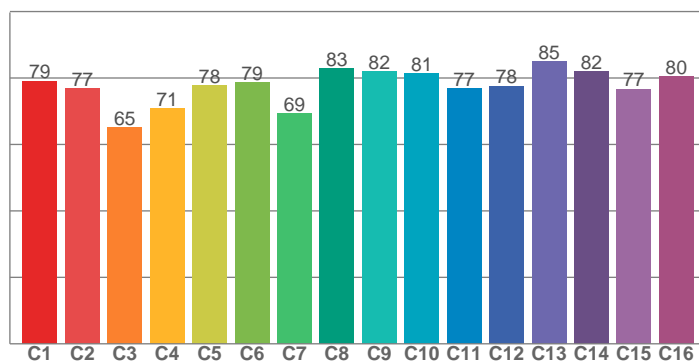
Spectra



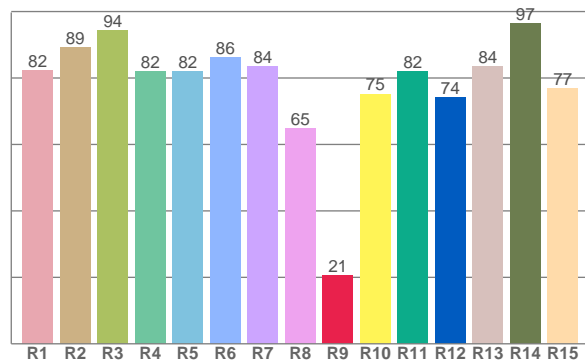
Color Details



TM30: 77.5



CRI: 83.1 (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
82.3	89.2	94.4	82.1	82.0	86.2	83.6	64.8	20.6	75.2	81.9	74.2	83.5	96.6	76.9

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
79.1	76.9	65.1	70.8	77.8	78.6	69.2	82.9	81.9	81.4	76.9	77.6	84.9	82.0	76.7	80.5

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
2936 K	83.1	20.6	77.5	102.4	0.434	0.390	0.255	0.343	0.0053

TM30 Details

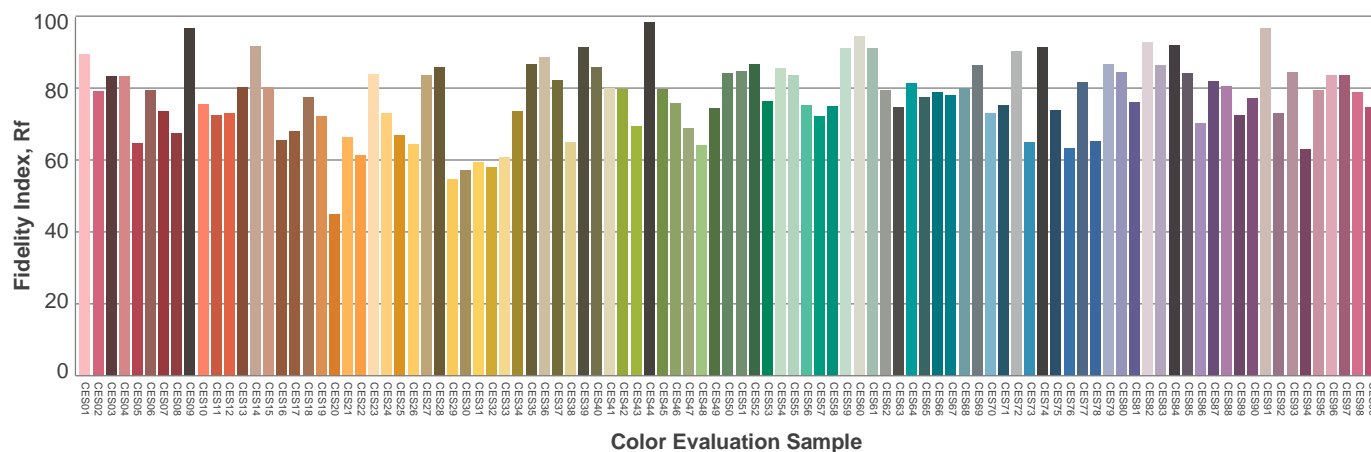
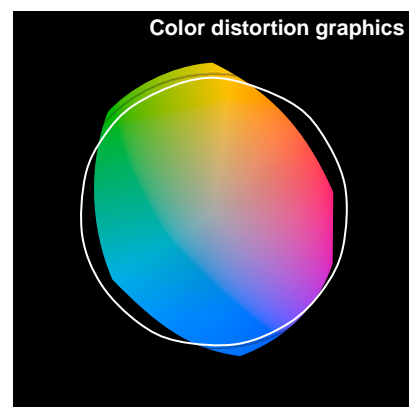
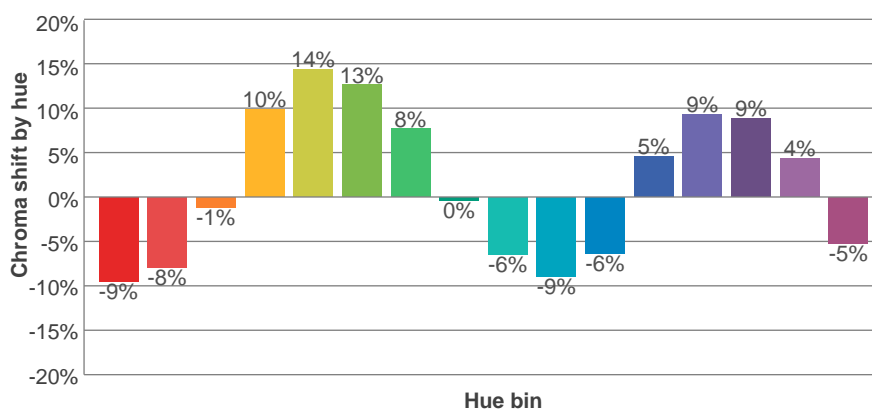
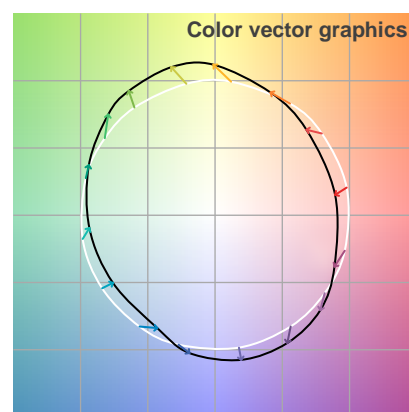
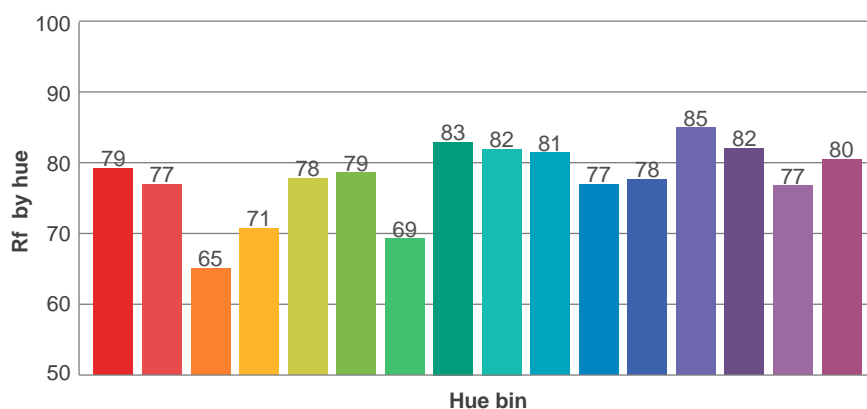
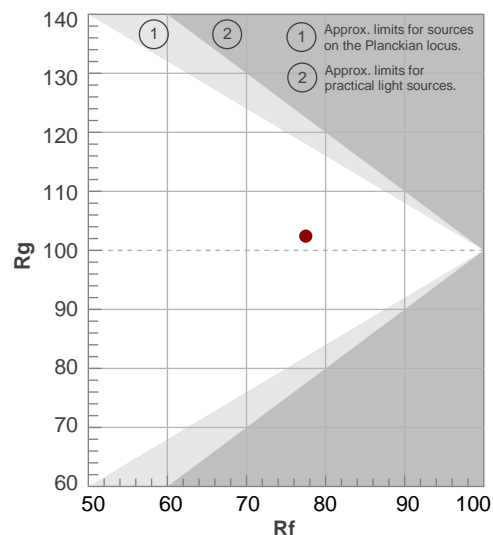
Rf 77.5

Fidelity index Rf

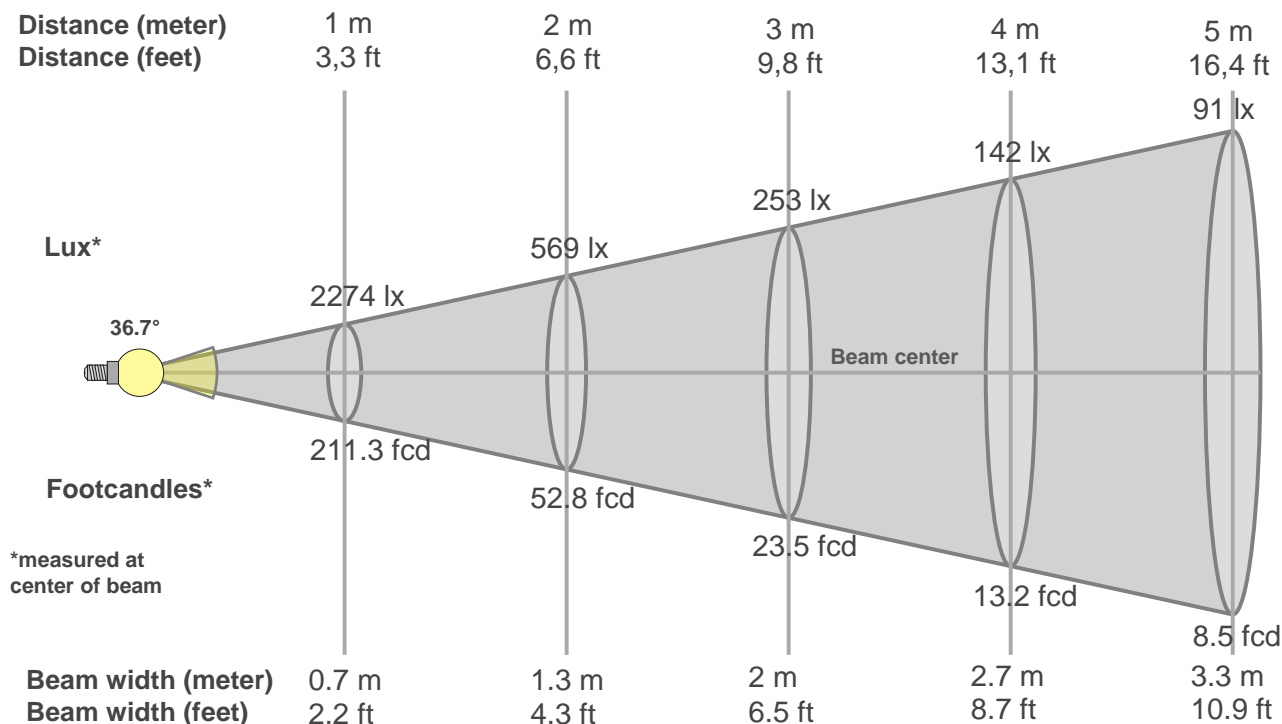
Rg 102.4

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	79	-9%	-4%
2	77	-8%	9%
3	65	-1%	17%
4	71	10%	15%
5	78	14%	9%
6	79	13%	-3%
7	69	8%	-16%
8	83	0%	-10%
9	82	-6%	-7%
10	81	-9%	1%
11	77	-6%	12%
12	78	5%	9%
13	85	9%	0%
14	82	9%	-9%
15	77	4%	-12%
16	80	-5%	-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
2274lx	569lx	253lx	142lx	91lx	63lx	46lx	36lx	28lx	23lx	19lx	16lx	13lx	12lx	10lx	9lx	8lx	7lx	6lx	6lx
211.3fcd	52.8fcd	23.5fcd	13.2fcd	8.5fcd	5.9fcd	4.3fcd	3.3fcd	2.6fcd	2.1fcd	1.7fcd	1.5fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.7fcd	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°
2274	2250	2164	2038	1892	1743	1593	1437	1292	1165	1065	992	930	878	832	786	604	275	163	145
100%	99%	95%	90%	83%	77%	70%	63%	57%	51%	47%	44%	41%	39%	37%	35%	27%	12%	7%	6%

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°
2274	2224	2135	2024	1887	1726	1566	1419	1283	1153	1054	984	928	875	821	764	554	262	158	136
100%	98%	94%	89%	83%	76%	69%	62%	56%	51%	46%	43%	41%	38%	36%	34%	24%	12%	7%	6%

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°
2274	2251	2185	2072	1924	1765	1607	1451	1297	1161	1067	999	937	881	829	781	611	302	168	145
100%	99%	96%	91%	85%	78%	71%	64%	57%	51%	47%	44%	41%	39%	36%	34%	27%	13%	7%	6%

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°
2274	2258	2169	2052	1916	1760	1590	1428	1282	1154	1051	975	918	872	825	780	632	311	165	144
100%	99%	95%	90%	84%	77%	70%	63%	56%	51%	46%	43%	40%	38%	36%	34%	28%	14%	7%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36.7°	69.2°	101.5°	96.7%	91.6%