

Light efficiency:

71 Lumen/Watt

Light quality:

CRI: 81.7

Color temperature:

2955 K

Output: 1412 lm

Peak: 2140 cd

Power: 19.8 W

PF: 0.99



Beam angle

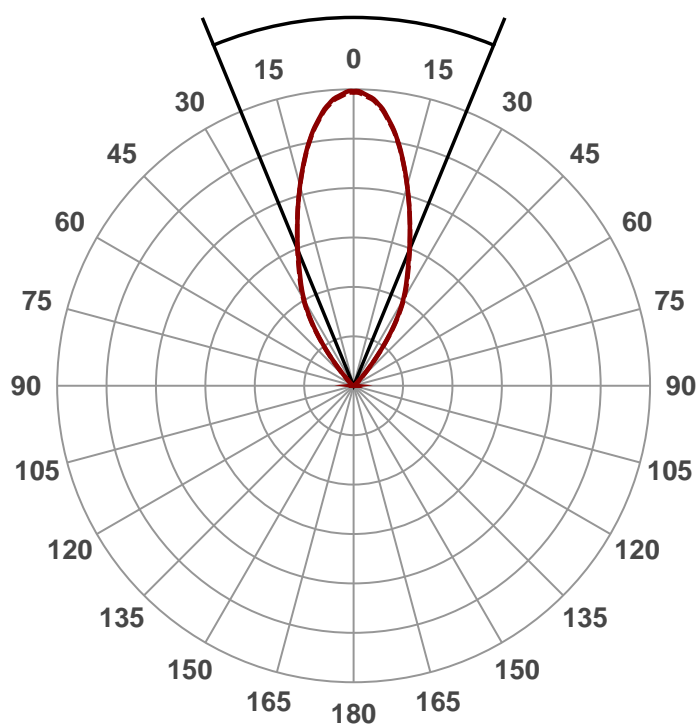
44.7°

Product name:

731-3-XTM19-20LM-30K-83-SSA40

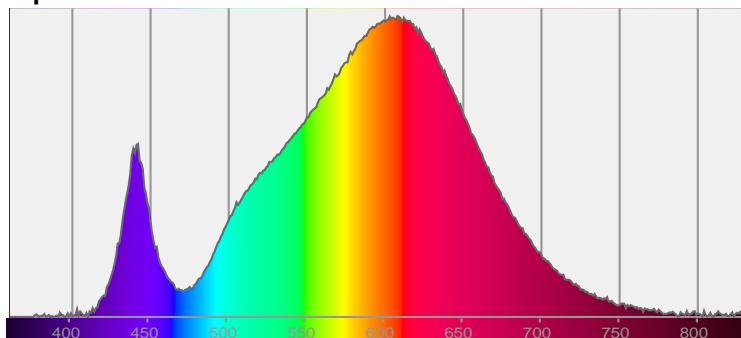
Date and time:

11/29/2016 10:16:05 AM

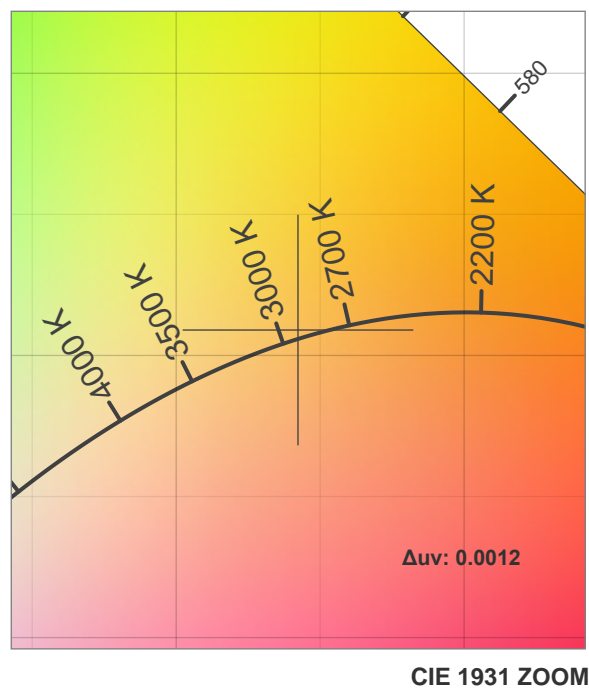
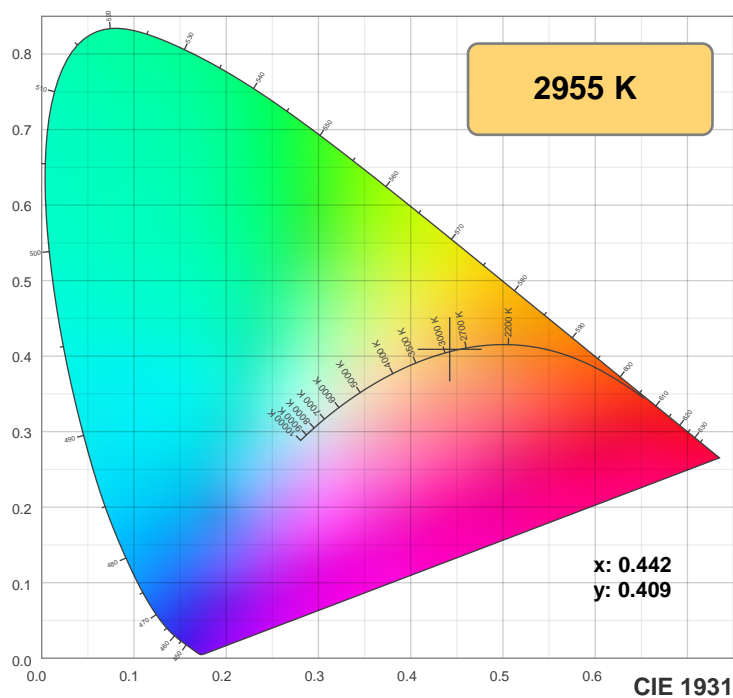


CIE 1931
x: 0.442
y: 0.409

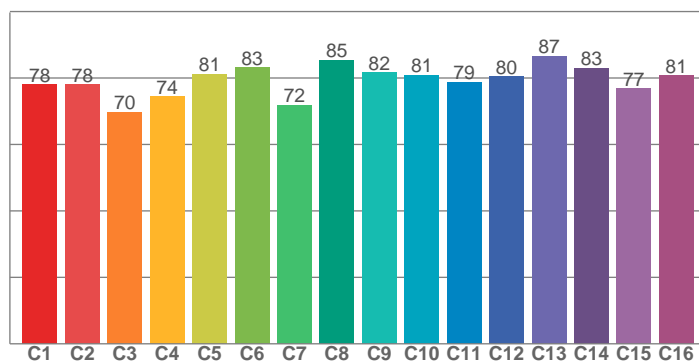
Spectra



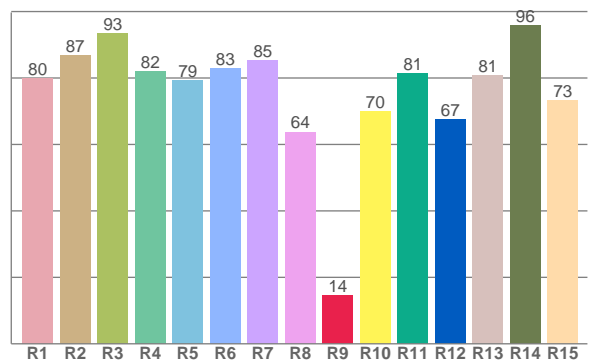
Color details



TM30: 79.2



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	86.7	93.4	82.0	79.3	82.9	85.2	63.8	14.5	69.9	81.4	67.5	80.7	95.9	73.1

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
78.1	78.1	69.8	74.4	81.2	83.1	71.8	85.5	81.6	81.0	78.8	80.4	86.7	83.0	76.9	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
2955 K	81.7	14.5	79.2	99.7	0.442	0.409	0.252	0.349	0.0012

TM30 details

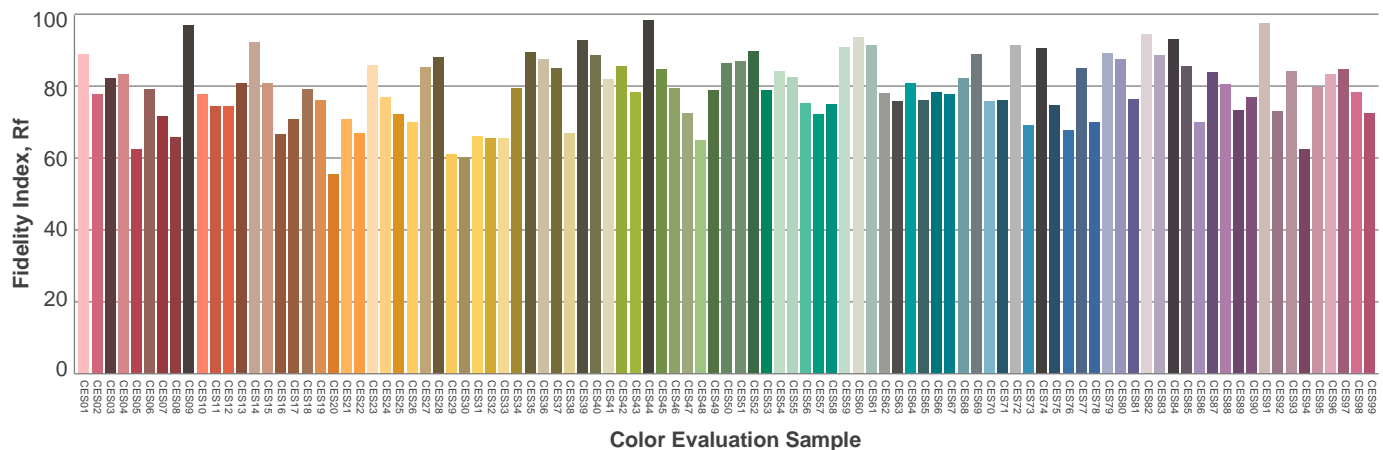
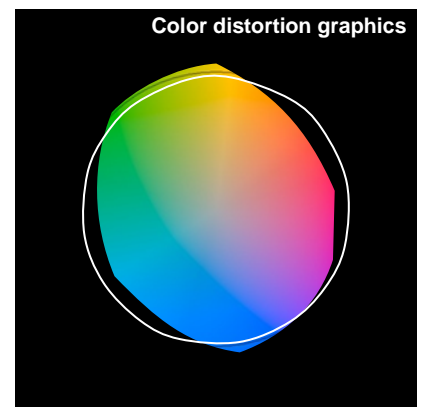
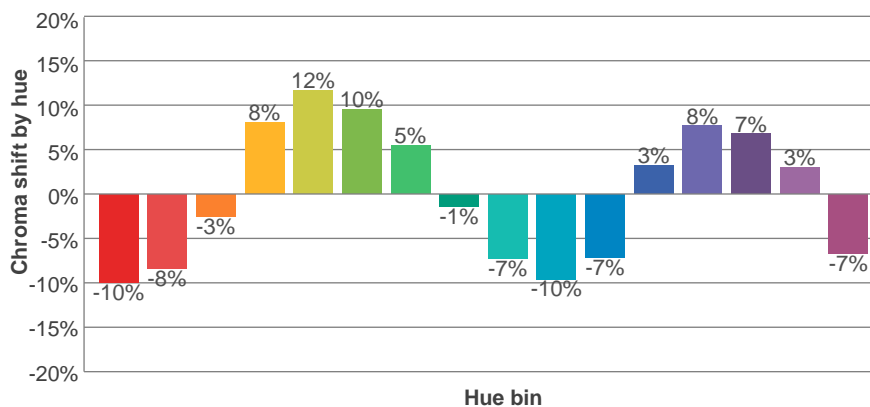
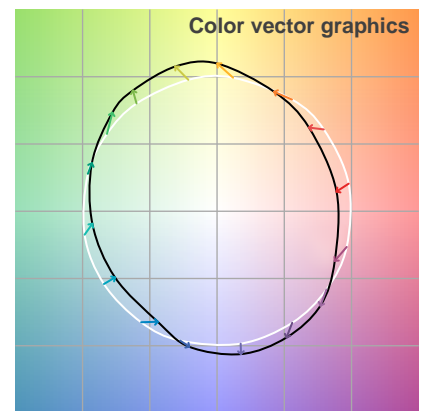
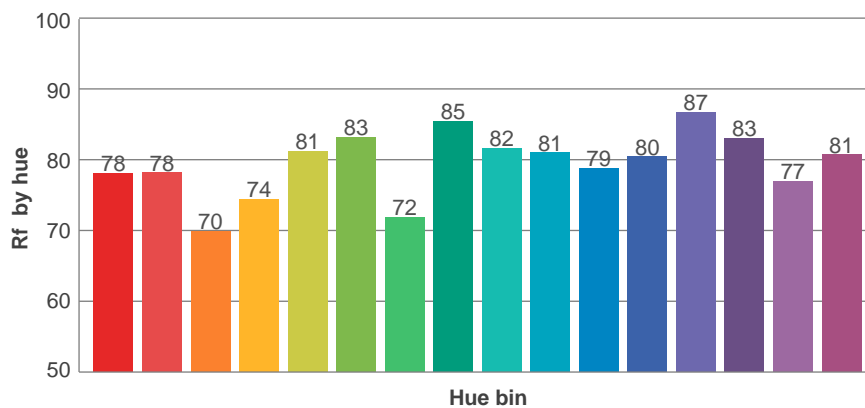
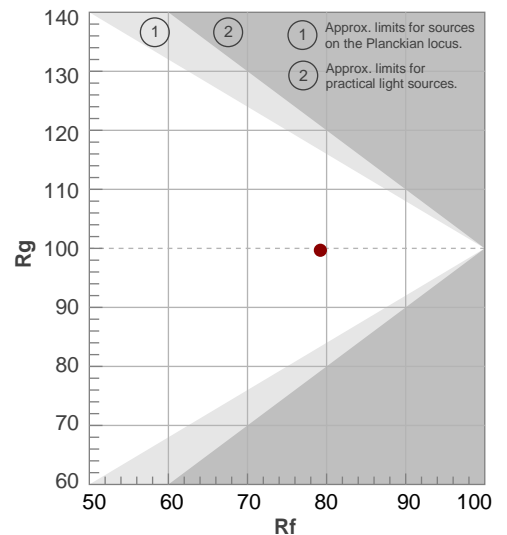
Rf 79.2

Fidelity index Rf

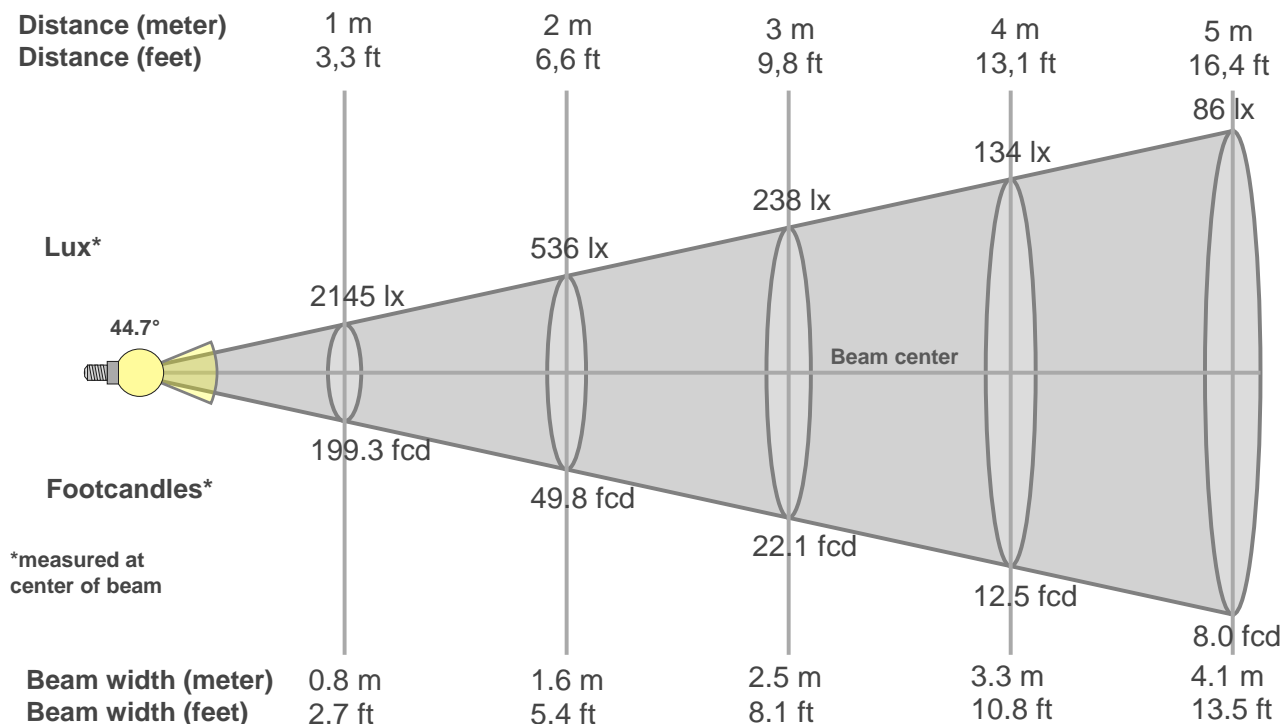
Rg 99.7

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	78	-10%	-4%
2	78	-8%	7%
3	70	-3%	14%
4	74	8%	13%
5	81	12%	8%
6	83	10%	-3%
7	72	5%	-15%
8	85	-1%	-8%
9	82	-7%	-7%
10	81	-10%	1%
11	79	-7%	10%
12	80	3%	8%
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
2145lx	536lx	238lx	134lx	86lx	60lx	44lx	34lx	26lx	21lx	18lx	15lx	13lx	11lx	10lx	8lx	7lx	7lx	6lx	5lx
199.3fcd	49.8fcd	22.1fcd	12.5fcd	8fcd	5.5fcd	4.1fcd	3.1fcd	2.5fcd	2fcd	1.6fcd	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°
2145	2129	2093	2027	1931	1825	1702	1574	1444	1319	1198	1087	981	889	806	720	622	518	405	293
100%	99%	98%	94%	90%	85%	79%	73%	67%	61%	56%	51%	46%	41%	38%	34%	29%	24%	19%	14%

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°
2145	2128	2094	2028	1934	1829	1706	1578	1450	1327	1209	1100	996	905	823	737	638	532	417	304
100%	99%	98%	95%	90%	85%	80%	74%	68%	62%	56%	51%	46%	42%	38%	34%	30%	25%	19%	14%

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°
2145	2129	2093	2027	1931	1825	1702	1574	1444	1319	1198	1087	981	889	806	720	622	518	405	293
100%	99%	98%	94%	90%	85%	79%	73%	67%	61%	56%	51%	46%	41%	38%	34%	29%	24%	19%	14%

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°
2145	2128	2094	2028	1934	1829	1706	1578	1450	1327	1209	1100	996	905	823	737	638	532	417	304
100%	99%	98%	95%	90%	85%	80%	74%	68%	62%	56%	51%	46%	42%	38%	34%	30%	25%	19%	14%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
44.7°	79.2°	91.8°	99.1%	96.6%