

Light efficiency:

80 Lumen/Watt

Light quality:

CRI: 81.5

Color temperature:

2953 K

Output: 1588 lm

Peak: 2058 cd

Power: 19.7 W

PF: 0.99



Beam angle

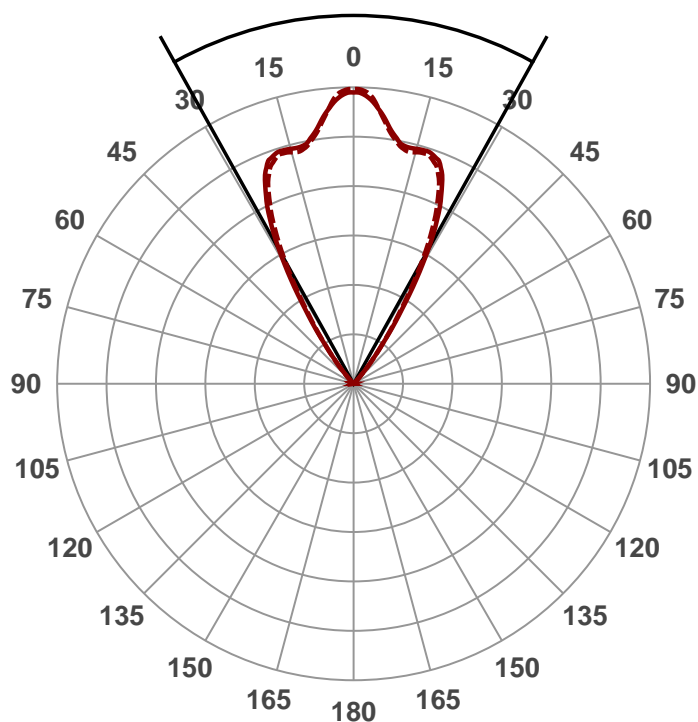
58.2°

Product name:

731-3-XTM19-20LM-30K-83-SA60

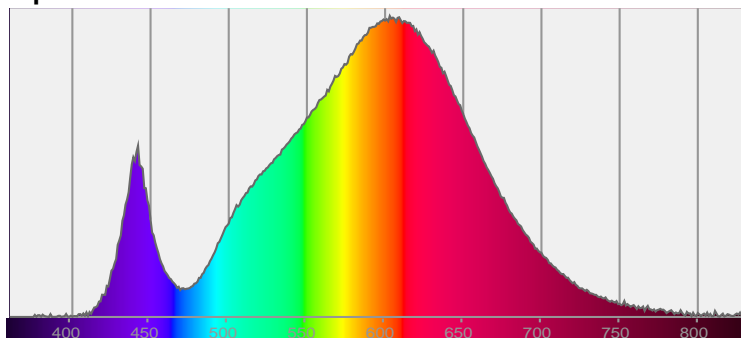
Date and time:

11/29/2016 10:38:16 AM

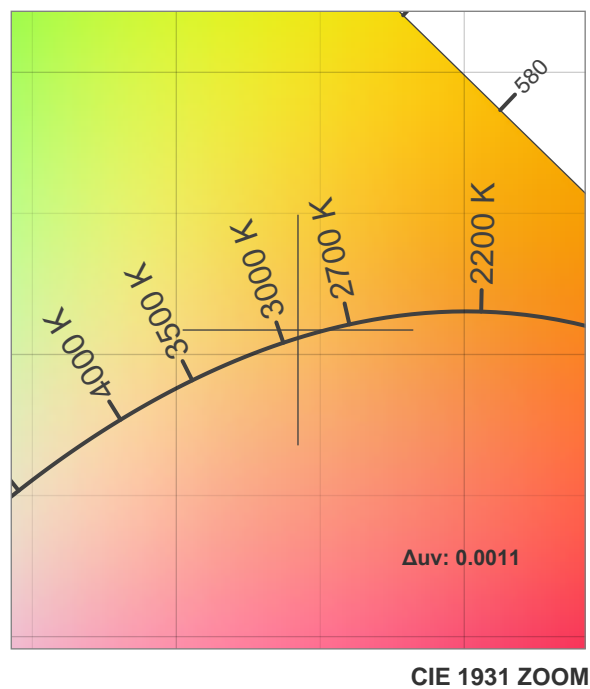
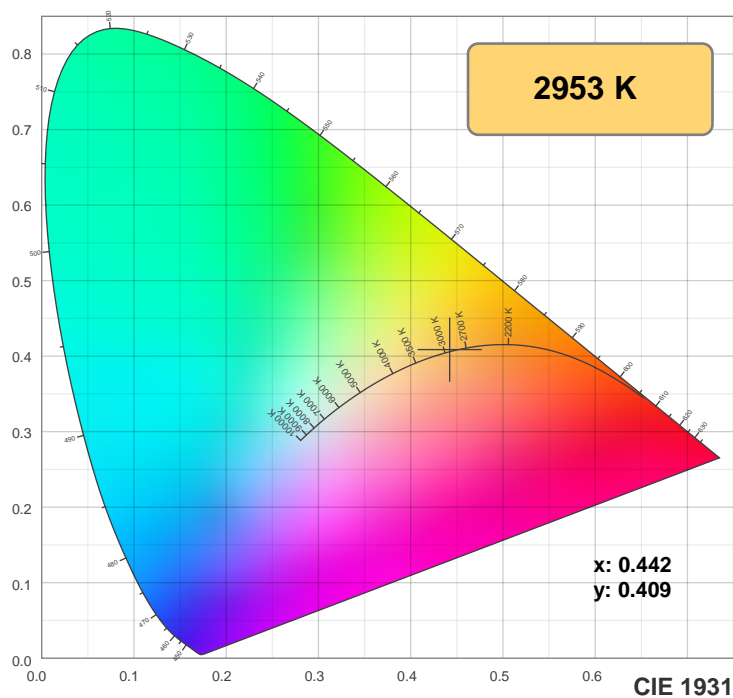


CIE 1931
x: 0.442
y: 0.409

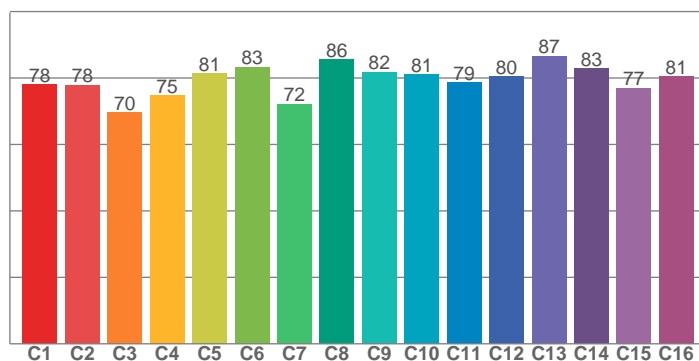
Spectra



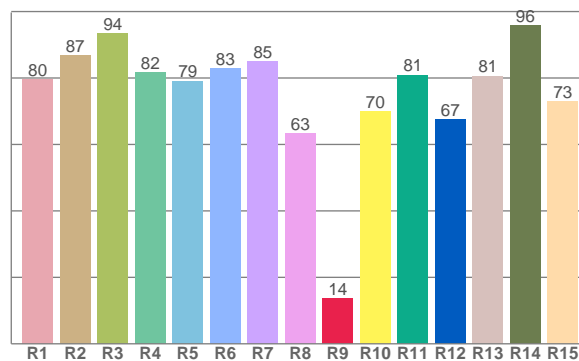
Color details



TM30: 79.2



CRI: 81.5 (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
79.7	86.7	93.5	81.8	79.1	82.9	85.1	63.4	13.6	69.9	81.0	67.5	80.6	96.0	72.9

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
78.0	77.9	69.6	74.7	81.4	83.3	72.2	85.6	81.9	81.0	78.6	80.4	86.7	82.8	77.0	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
2953 K	81.5	13.6	79.2	99.5	0.442	0.409	0.252	0.349	0.0011

TM30 details

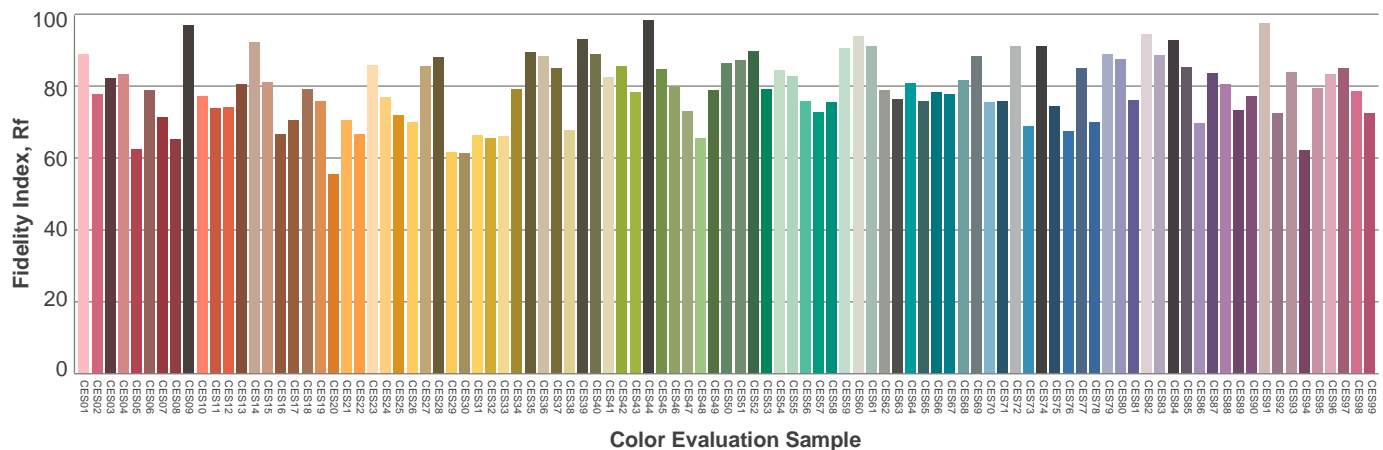
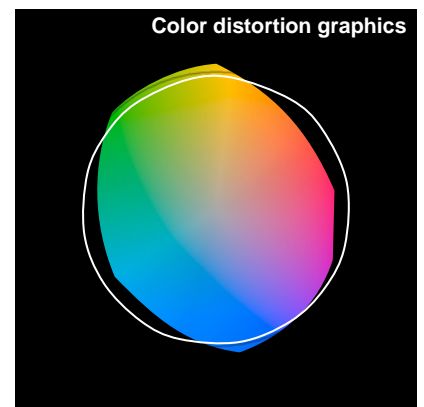
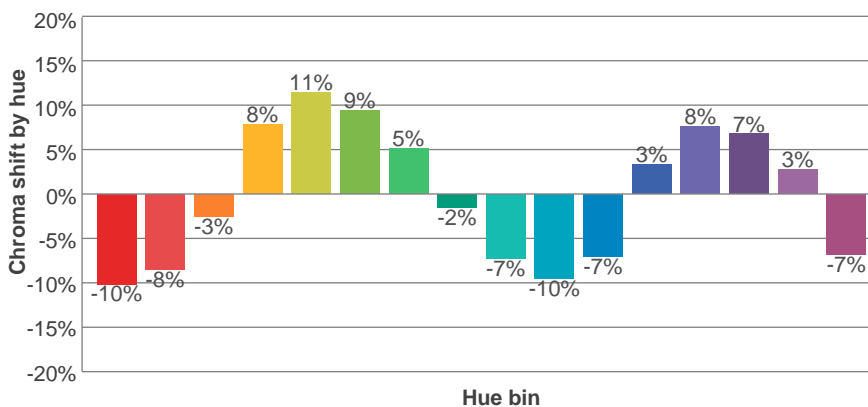
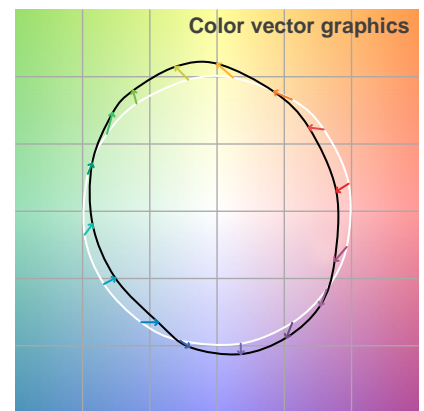
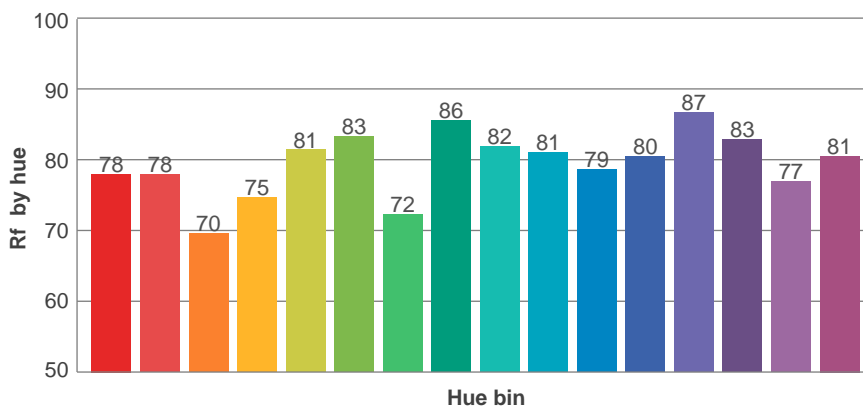
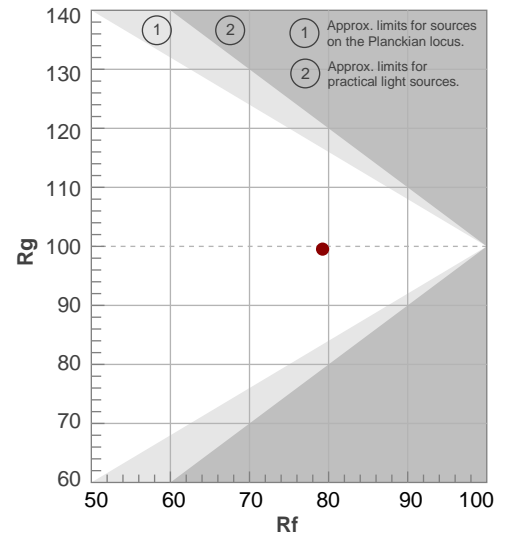
Rf 79.2

Fidelity index Rf

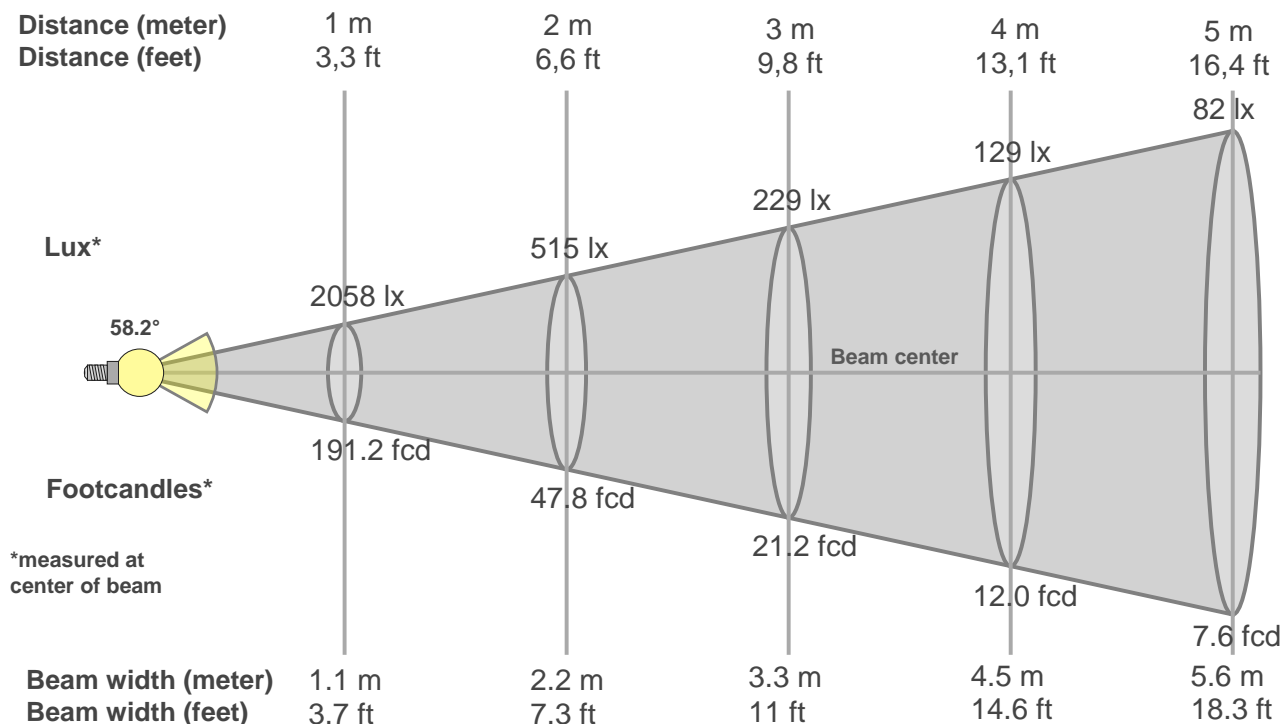
Rg 99.5

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	78	-10%	-4%
2	78	-8%	7%
3	70	-3%	14%
4	75	8%	13%
5	81	11%	8%
6	83	9%	-3%
7	72	5%	-15%
8	86	-2%	-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
2058lx	515lx	229lx	129lx	82lx	57lx	42lx	32lx	25lx	21lx	17lx	14lx	12lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx
191.2fcd	47.8fcd	21.2fcd	12fcd	7.6fcd	5.3fcd	3.9fcd	3fcd	2.4fcd	1.9fcd	1.6fcd	1.3fcd	1.1fcd	1fcd	0.8fcd	0.7fcd	0.7fcd	0.6fcd	0.5fcd	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°
2058	2045	1994	1919	1828	1761	1720	1715	1722	1723	1699	1645	1536	1391	1203	975	743	533	352	222
100%	99%	97%	93%	89%	86%	84%	83%	84%	84%	83%	80%	75%	68%	58%	47%	36%	26%	17%	11%

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°
2058	2048	1994	1885	1787	1721	1677	1667	1681	1683	1645	1578	1458	1304	1110	892	678	494	339	223
100%	99%	97%	92%	87%	84%	81%	81%	82%	82%	80%	77%	71%	63%	54%	43%	33%	24%	16%	11%

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°
2058	2045	1994	1919	1828	1761	1720	1715	1722	1723	1699	1645	1536	1391	1203	975	743	533	352	222
100%	99%	97%	93%	89%	86%	84%	83%	84%	84%	83%	80%	75%	68%	58%	47%	36%	26%	17%	11%

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°
2058	2048	1994	1885	1787	1721	1677	1667	1681	1683	1645	1578	1458	1304	1110	892	678	494	339	223
100%	99%	97%	92%	87%	84%	81%	81%	82%	82%	80%	77%	71%	63%	54%	43%	33%	24%	16%	11%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
58.2°	76.8°	84.9°	99.8%	99.5%