

Light efficiency:

79 Lumen/Watt

Light quality:

CRI: 81.7

Color temperature:

2896 K

Output: 781 lm

Peak: 1307 cd

Power: 9.9 W

PF: 1.0



Beam angle

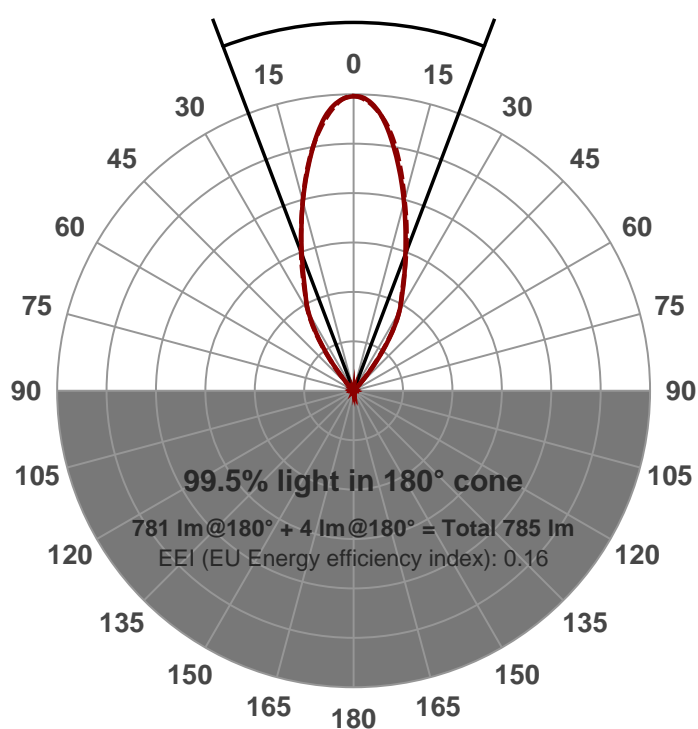
41.5°

Product name:

730-2-411-XTM19-10LM-30K-83-DA20

Date and time:

10/5/2016 1:40:07 PM

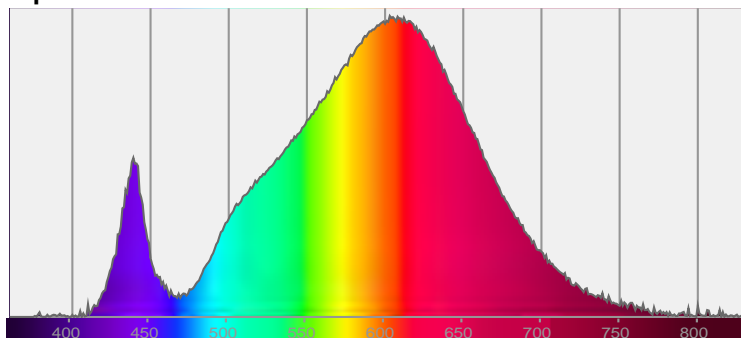


CIE 1931

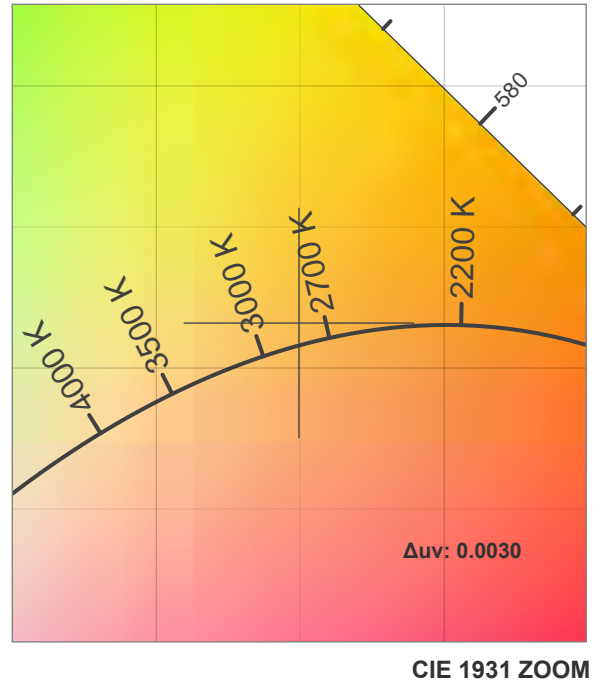
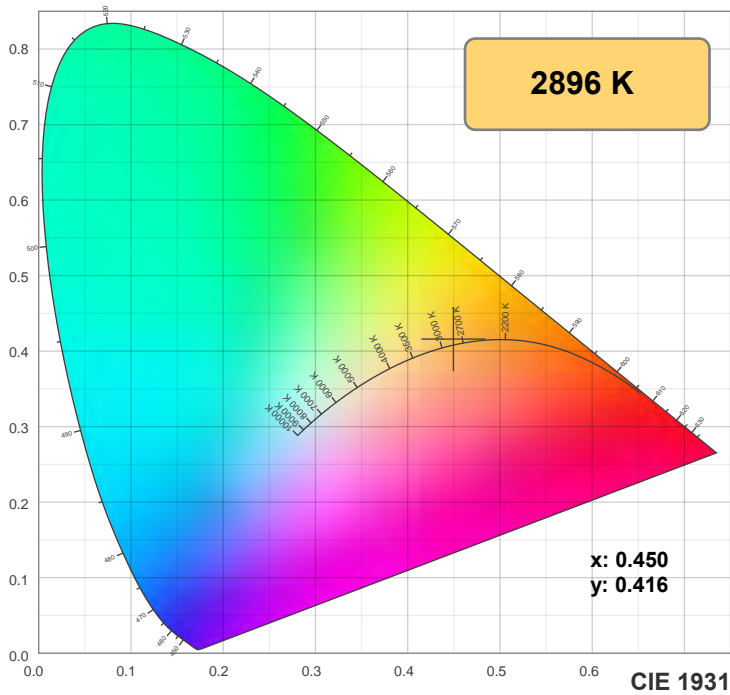
x: 0.450

y: 0.416

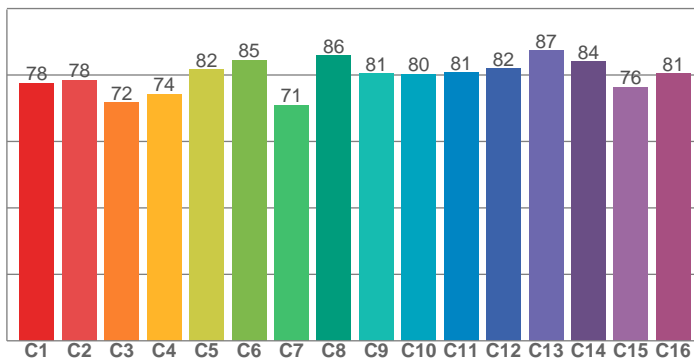
Spectra



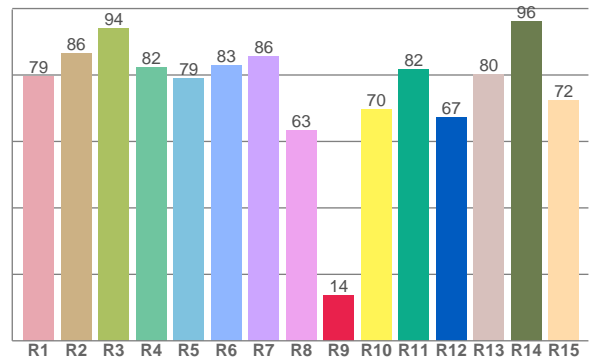
Color details



TM30: 79.6



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
79.5	86.5	93.9	82.4	79.0	82.9	85.6	63.4	13.6	69.8	81.8	67.2	80.3	96.2	72.3

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
77.6	78.5	71.8	74.3	81.6	84.5	71.0	85.9	80.5	80.3	80.8	82.0	87.4	84.1	76.4	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
2896 K	81.7	13.6	79.6	98.8	0.450	0.416	0.254	0.352	0.0030

TM30 details

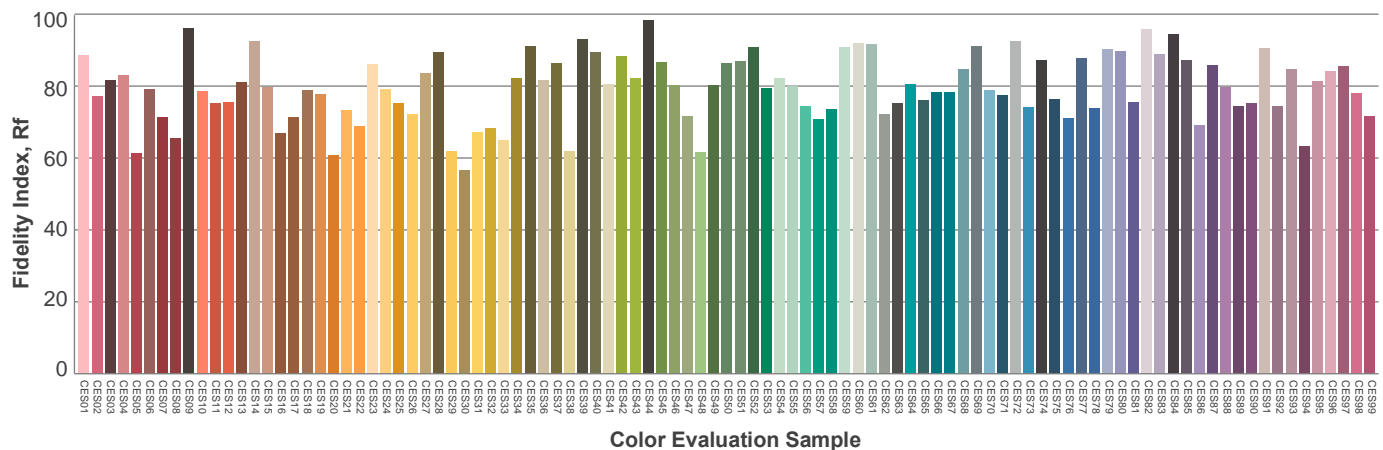
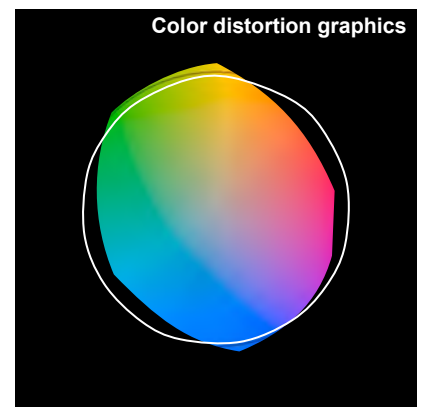
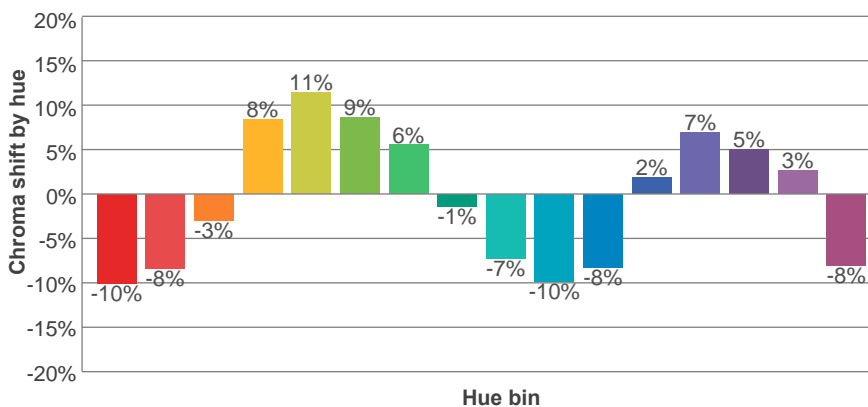
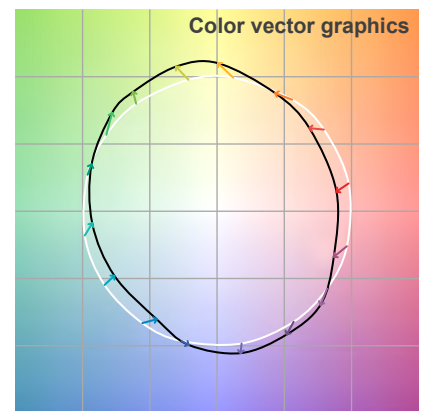
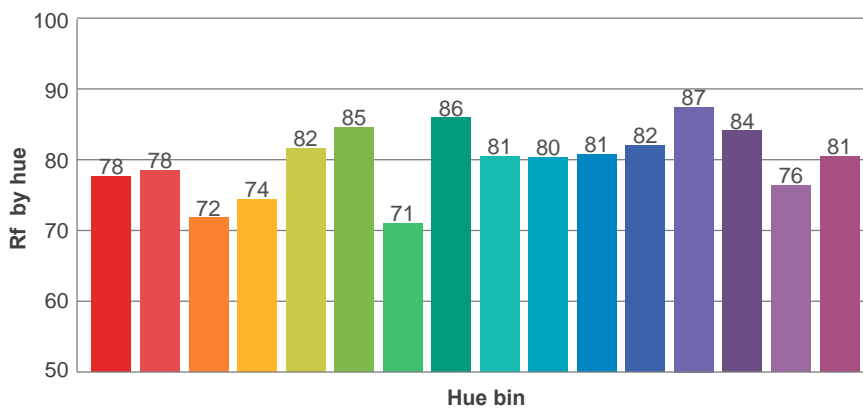
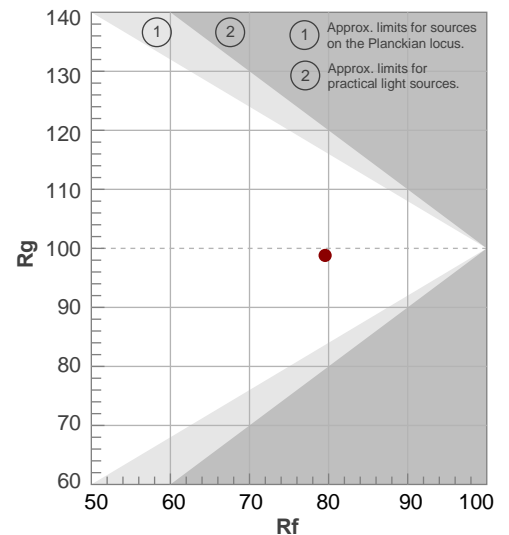
Rf 79.6

Fidelity index Rf

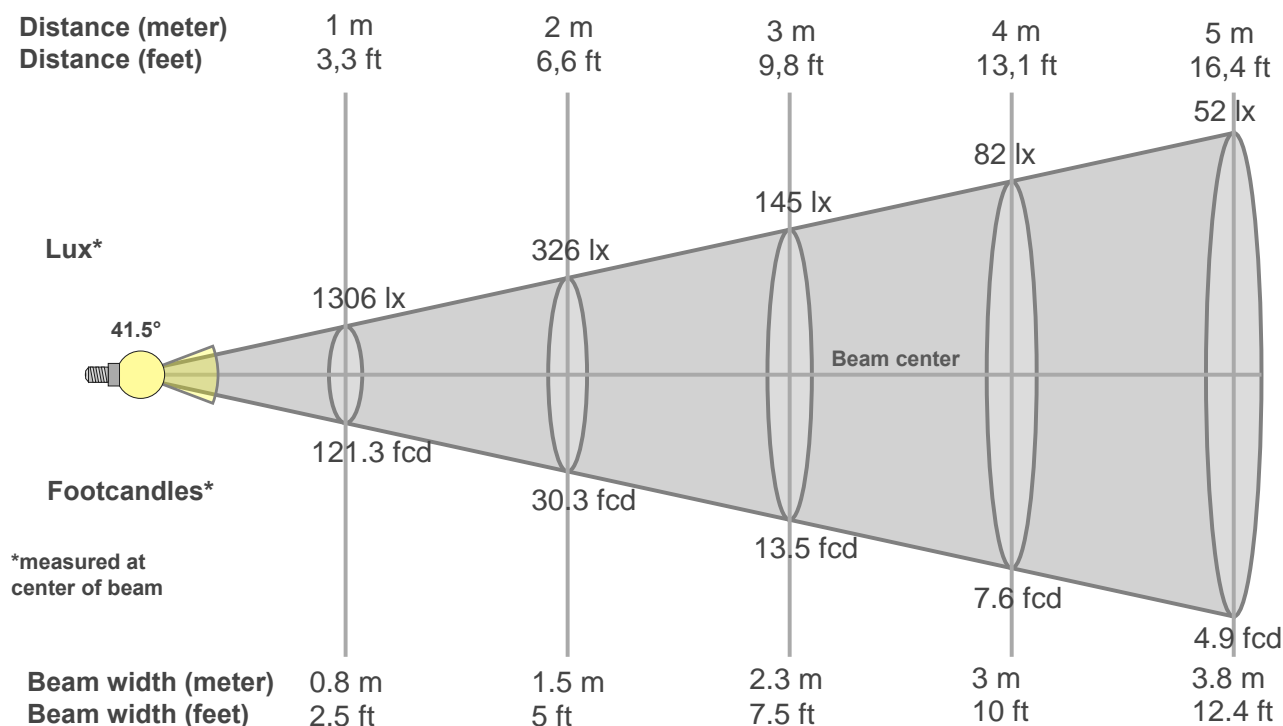
Rg 98.8

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	78	-10%	-4%
2	78	-8%	7%
3	72	-3%	13%
4	74	8%	13%
5	82	11%	7%
6	85	9%	-3%
7	71	6%	-16%
8	86	-1%	-8%
9	81	-7%	-8%
10	80	-10%	-2%
11	81	-8%	7%
12	82	2%	6%
13	87	7%	-2%
14	84	5%	-10%
15	76	3%	-13%
16	81	-8%	-10%



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
1306lx	326lx	145lx	82lx	52lx	36lx	27lx	20lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx
121.3fcd	30.3fcd	13.5fcd	7.6fcd	4.9fcd	3.4fcd	2.5fcd	1.9fcd	1.5fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd

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°
1306	1296	1269	1221	1153	1074	991	911	830	750	676	607	544	491	446	397	337	272	205	140
100%	99%	97%	94%	88%	82%	76%	70%	64%	57%	52%	46%	42%	38%	34%	30%	26%	21%	16%	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°
1306	1295	1260	1209	1148	1076	997	913	831	753	684	617	554	497	448	402	345	281	213	149
100%	99%	96%	93%	88%	82%	76%	70%	64%	58%	52%	47%	42%	38%	34%	31%	26%	21%	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°
1306	1299	1269	1217	1148	1069	987	905	824	746	675	611	553	499	451	405	351	289	224	159
100%	99%	97%	93%	88%	82%	76%	69%	63%	57%	52%	47%	42%	38%	35%	31%	27%	22%	17%	12%

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°
1306	1294	1264	1219	1160	1087	1004	917	836	760	686	615	549	493	448	404	349	284	215	151
100%	99%	97%	93%	89%	83%	77%	70%	64%	58%	53%	47%	42%	38%	34%	31%	27%	22%	16%	12%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
41.5°	77.3°	87°	99.1%	97.4%