

Light efficiency:

56 Lumen/Watt

Light quality:

CRI: 83.0

Color temperature:

2922 K

Output: 1081 lm

Peak: 911 cd

Power: 19.3 W

PF: 0.99



Beam angle

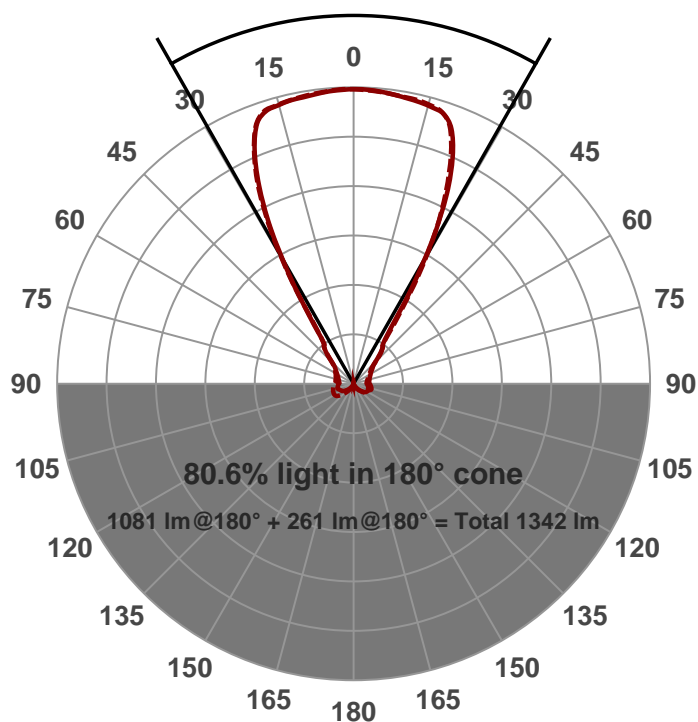
59.3°

Product name:

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

Date and time:

9/26/2016 2:38:48 PM

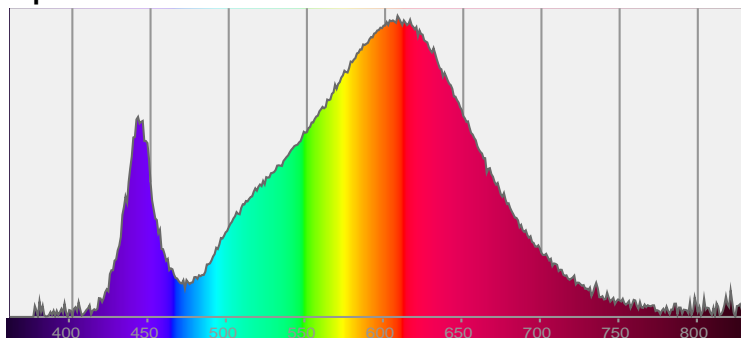


CIE 1931

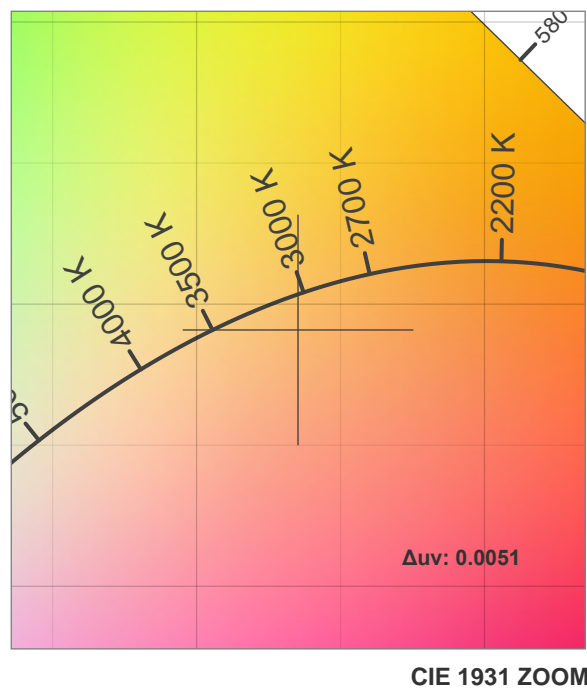
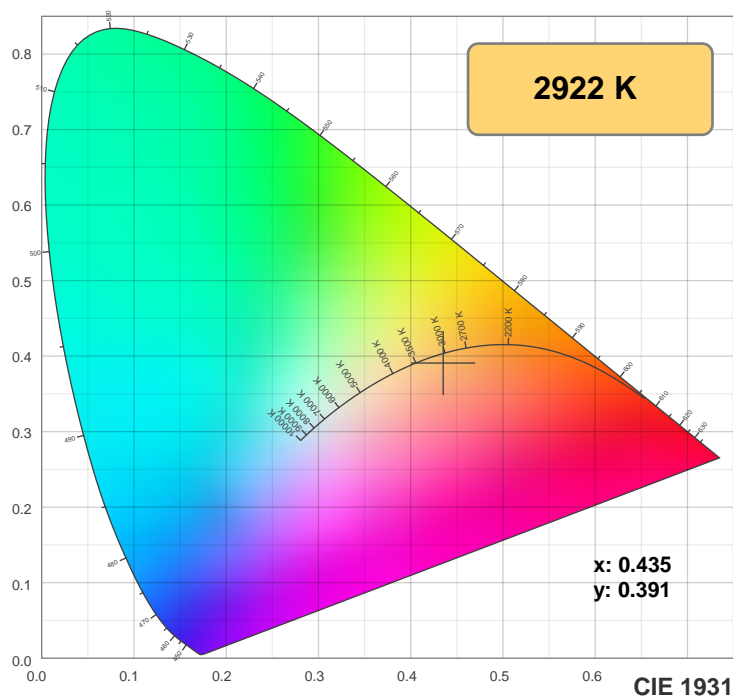
x: 0.435

y: 0.391

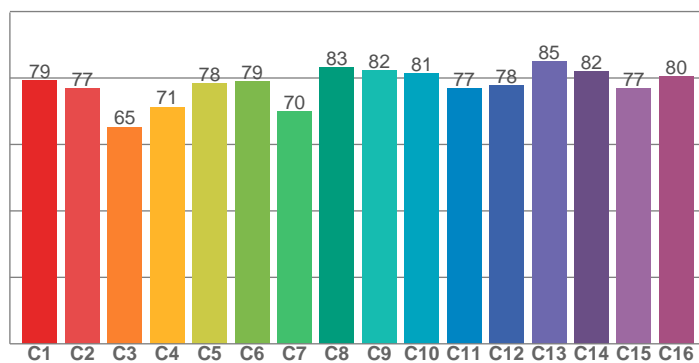
Spectra



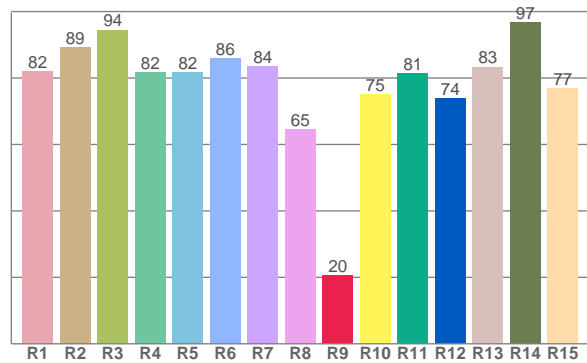
Color Details



TM30: 77.7



CRI: 83.0 (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
82.1	89.2	94.5	81.8	81.7	86.0	83.6	64.7	20.5	75.1	81.3	73.9	83.3	96.6	76.8

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
79.2	76.9	65.2	71.3	78.3	79.0	69.9	83.2	82.2	81.4	76.8	77.8	85.1	81.9	76.9	80.4

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
2922 K	83.0	20.5	77.7	102.2	0.435	0.391	0.255	0.344	0.0051

TM30 Details

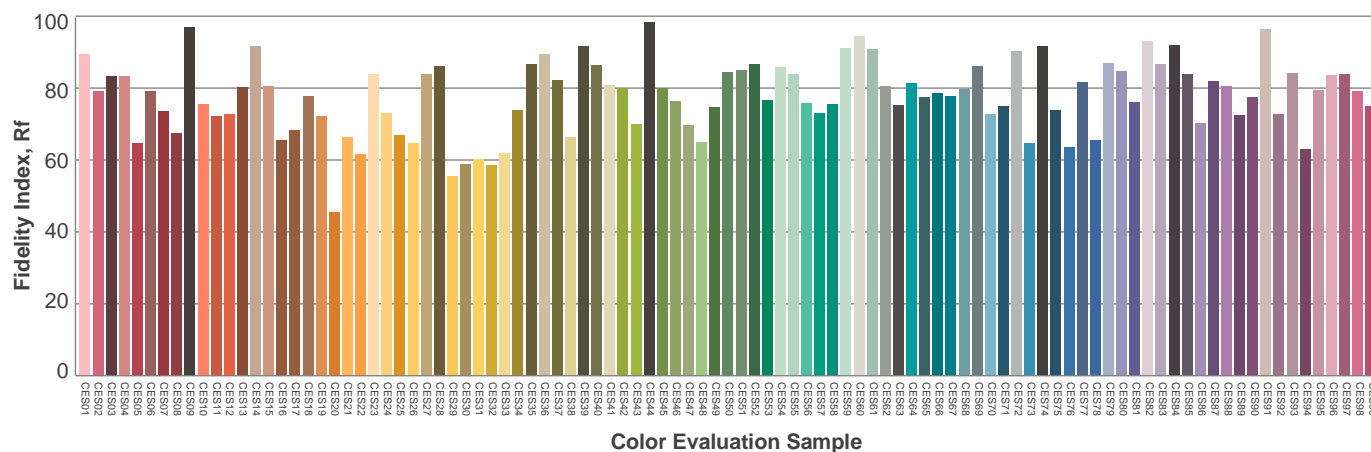
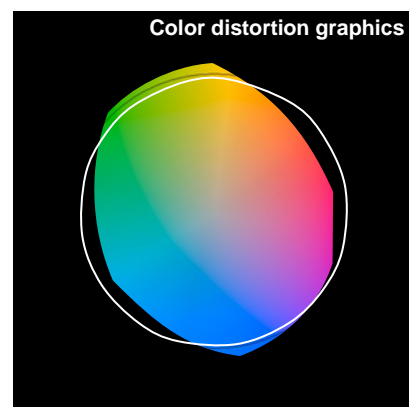
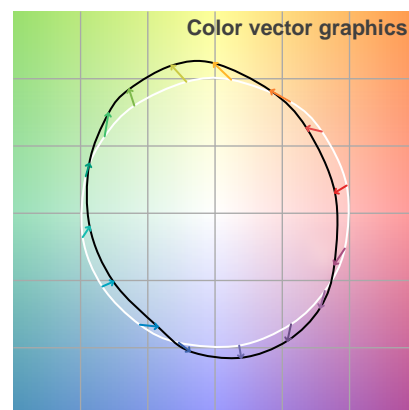
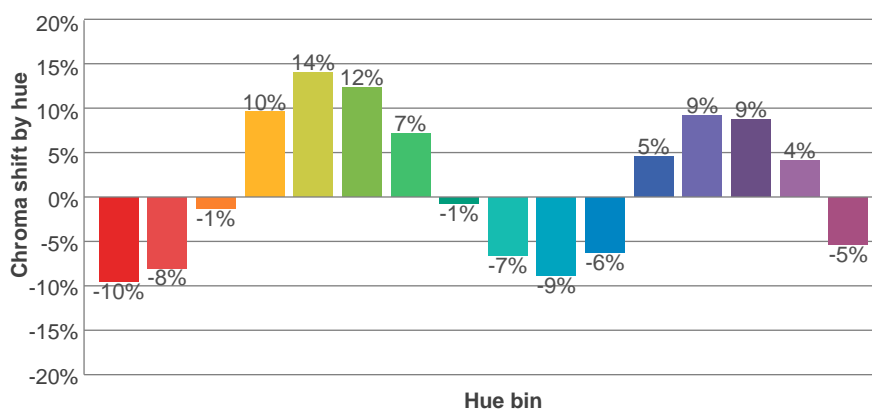
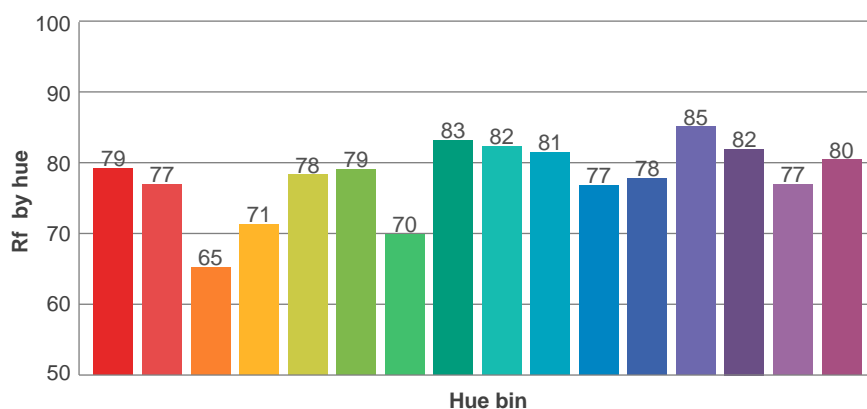
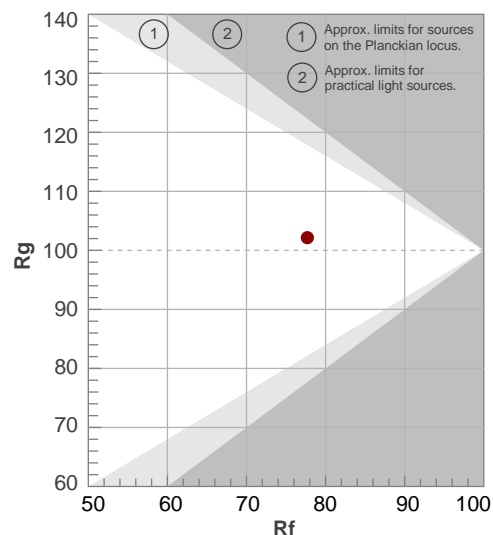
Rf 77.7

Fidelity index Rf

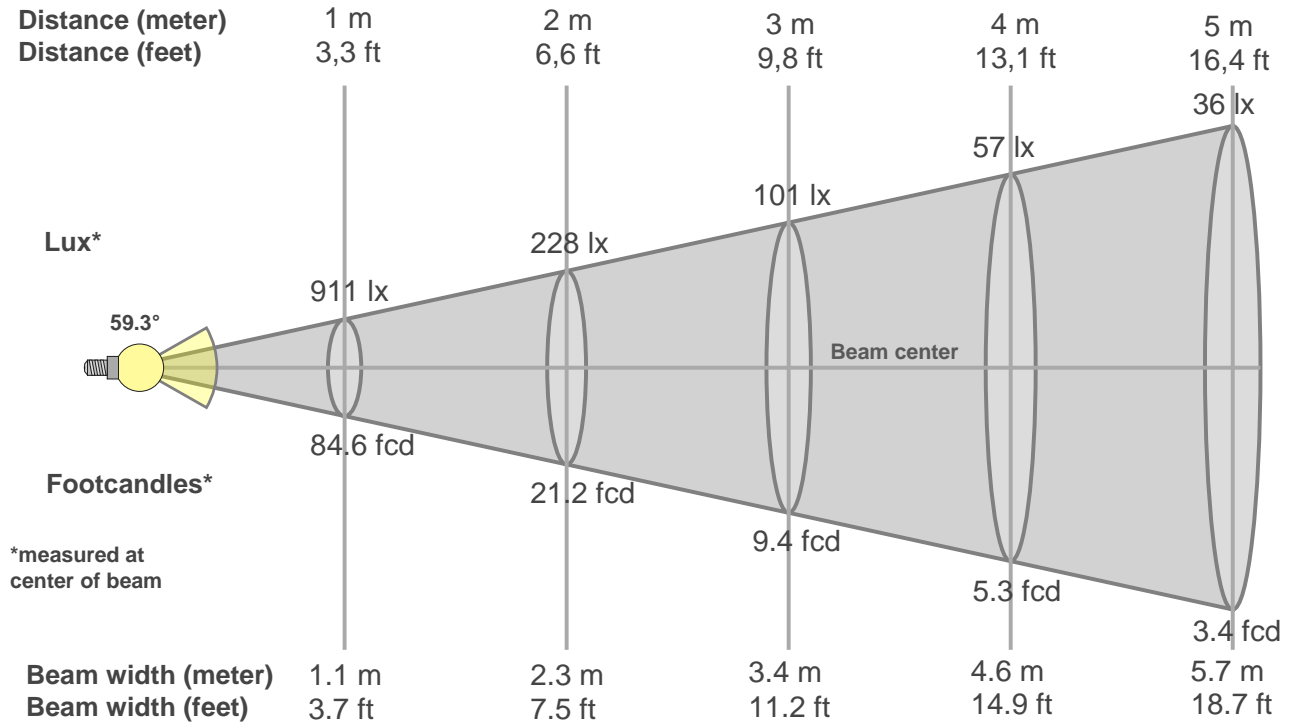
Rg 102.2

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	79	-10%	-4%
2	77	-8%	9%
3	65	-1%	17%
4	71	10%	15%
5	78	14%	8%
6	79	12%	-3%
7	70	7%	-16%
8	83	-1%	-10%
9	82	-7%	-7%
10	81	-9%	2%
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
911lx	228lx	101lx	57lx	36lx	25lx	19lx	14lx	11lx	9lx	8lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx
84.6fcd	21.2fcd	9.4fcd	5.3fcd	3.4fcd	2.4fcd	1.7fcd	1.3fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd

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°
911	910	908	906	902	900	898	895	890	883	862	812	741	653	550	428	313	220	160	149
100%	100%	100%	99%	99%	99%	99%	98%	98%	97%	95%	89%	81%	72%	60%	47%	34%	24%	18%	16%

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°
911	911	910	907	905	902	900	896	892	887	863	817	750	668	559	438	315	205	165	150
100%	100%	100%	100%	99%	99%	99%	98%	98%	97%	95%	90%	82%	73%	61%	48%	35%	23%	18%	16%

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°
911	911	909	906	903	899	896	893	888	881	858	814	748	661	549	427	306	200	163	147
100%	100%	100%	99%	99%	99%	98%	98%	97%	97%	94%	89%	82%	73%	60%	47%	34%	22%	18%	16%

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°
911	909	908	905	903	901	900	897	891	883	856	802	729	644	549	440	330	233	163	148
100%	100%	100%	99%	99%	99%	99%	98%	98%	97%	94%	88%	80%	71%	60%	48%	36%	26%	18%	16%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59.3°	91.5°	285°	68.6%	61.7%