

Light efficiency:

81 Lumen/Watt

Light quality:

CRI: 83.0

Color temperature:

2928 K

Output: 7106 lm

Peak: 9301 cd

Power: 87.8 W

PF: 1.0

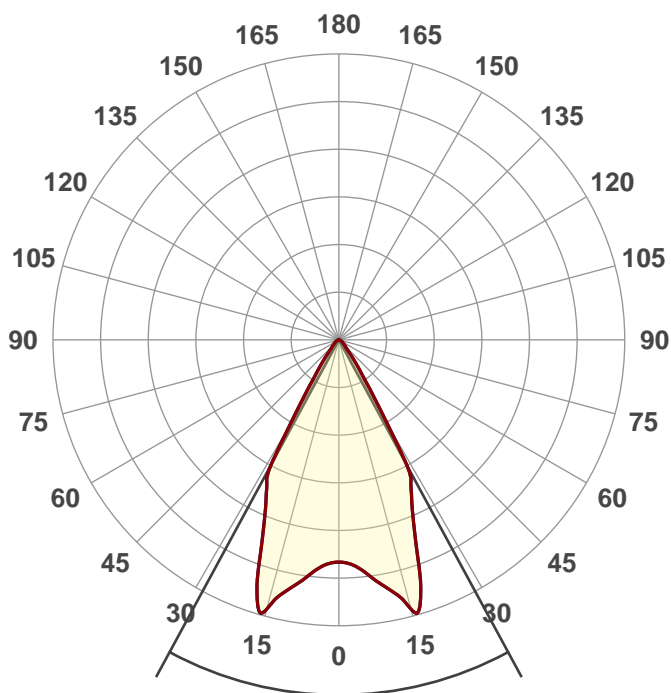


Product name:

680XK-9-CXB-70LM-30K-80-WH60-10V-MC-S-A16

Date and time:

5/23/2018 9:45:26 AM



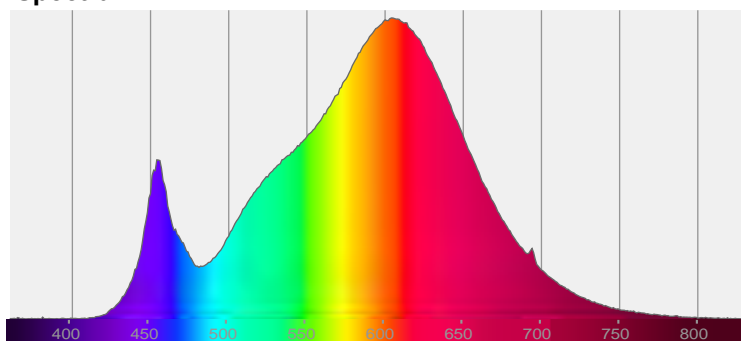
Beam angle

56.9°

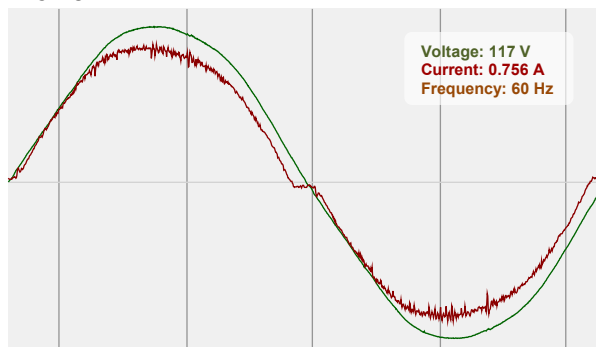


CIE 1931
x: 0.443
y: 0.407

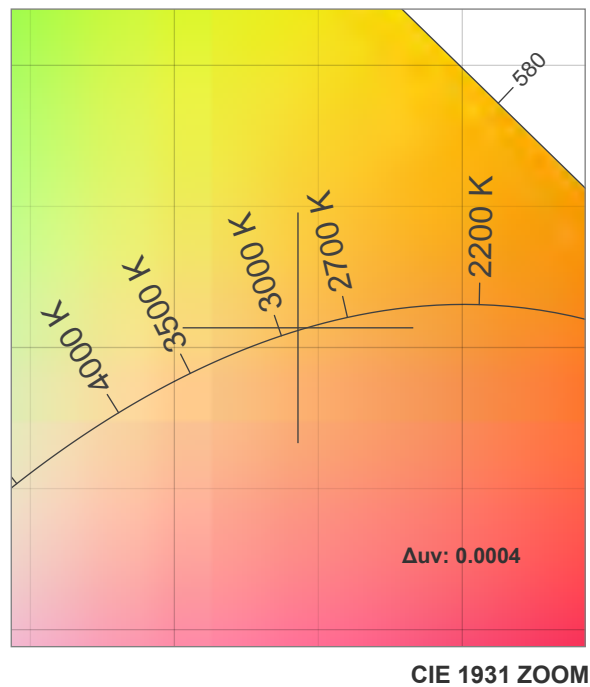
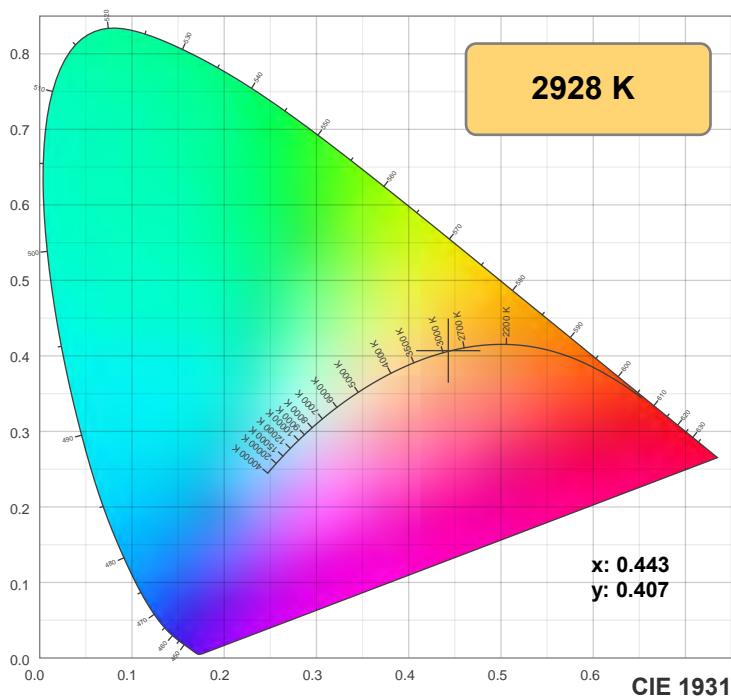
Spectra



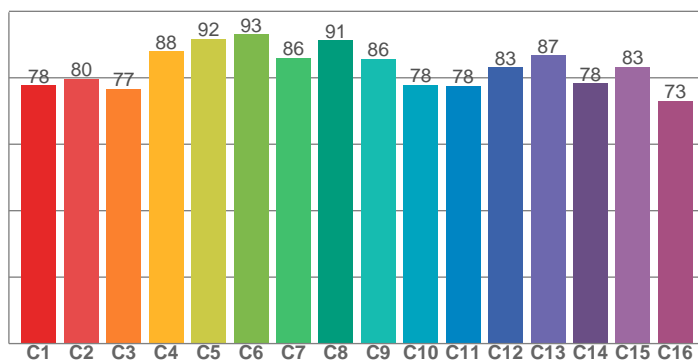
Power



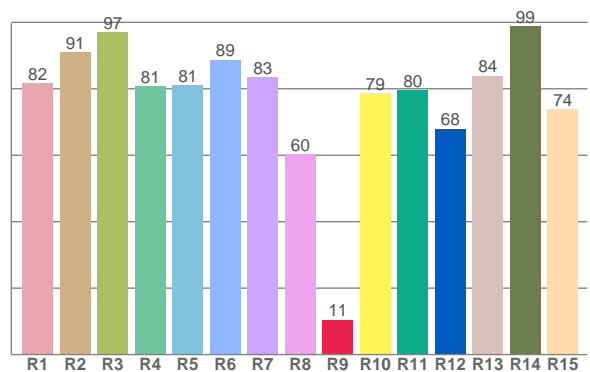
Color details



TM30: 82.8



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
81.6	91.0	97.0	80.7	81.0	88.8	83.4	60.4	10.5	78.7	79.5	68.0	83.9	98.8	73.9

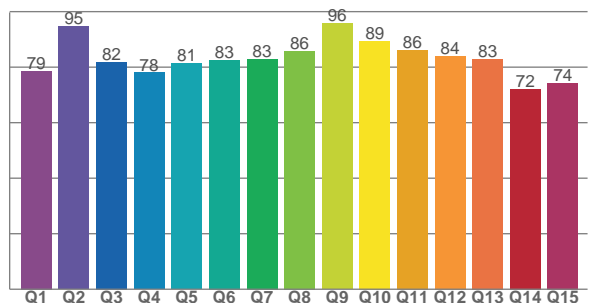
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
77.7	79.6	76.7	88.0	91.8	93.1	86.0	91.3	85.7	77.9	77.6	83.2	86.8	78.3	83.2	73.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78.6	94.7	81.9	78.0	81.4	82.6	82.9	85.9	95.8	89.4	86.2	84.0	83.0	72.2	74.3

CQS: 82.1



Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	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	CQS	x	y	u	v	Δuv
2928 K	83.0	10.5	82.8	95.3	82.1	0.443	0.407	0.253	0.349	0.0004

TM30 details

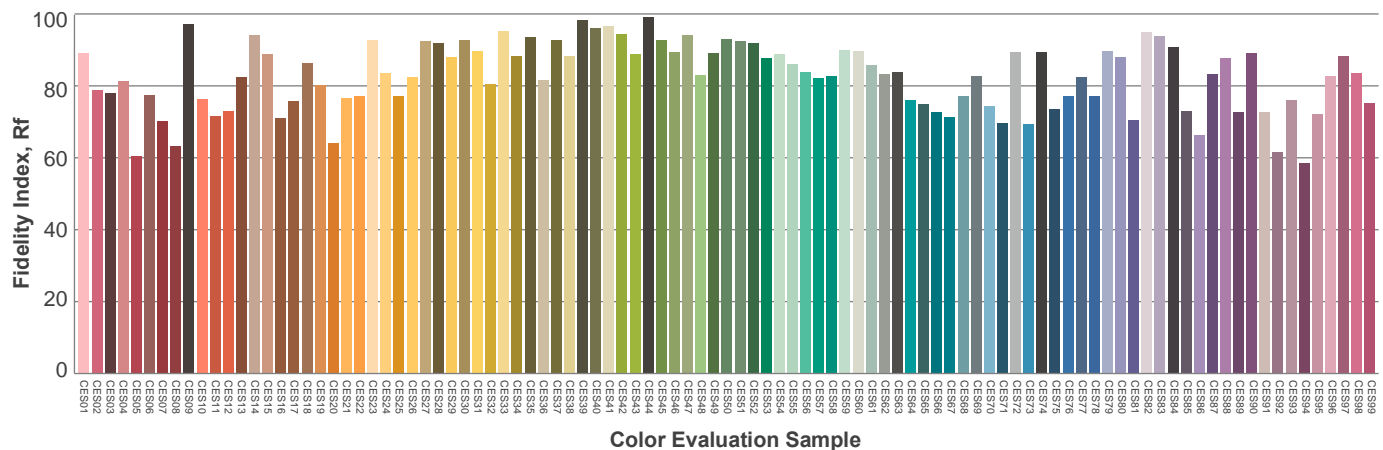
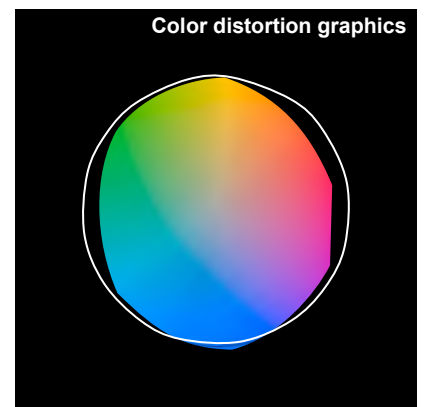
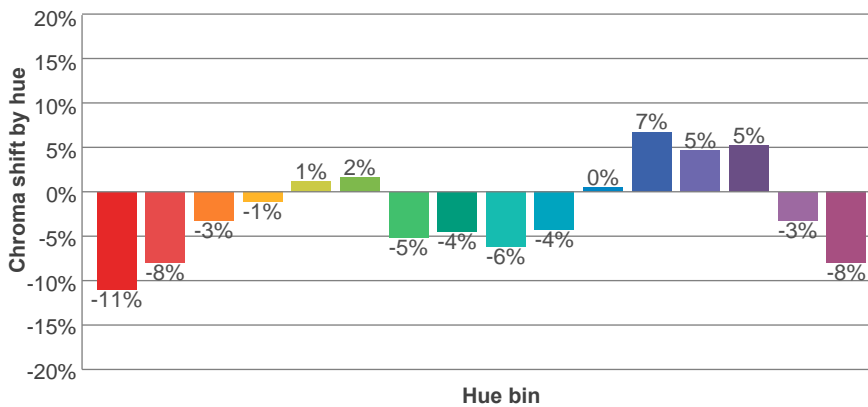
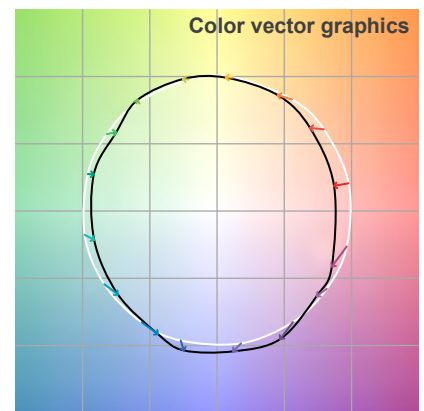
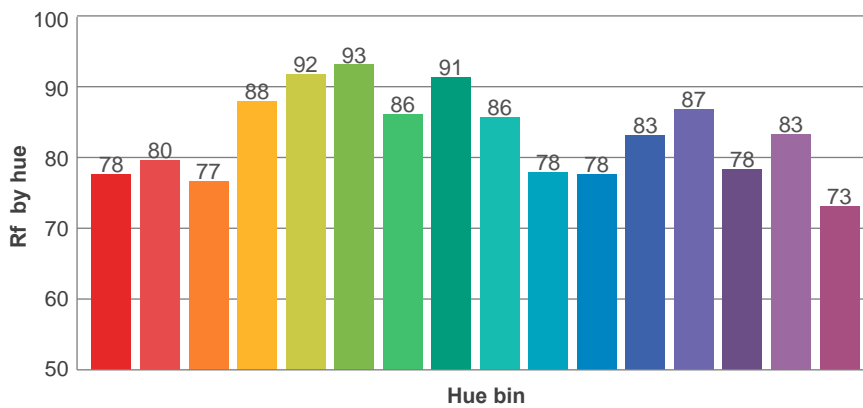
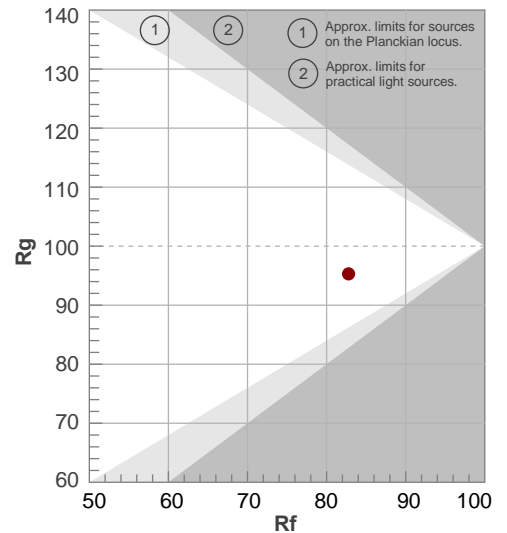
Rf 82.8

Fidelity index Rf

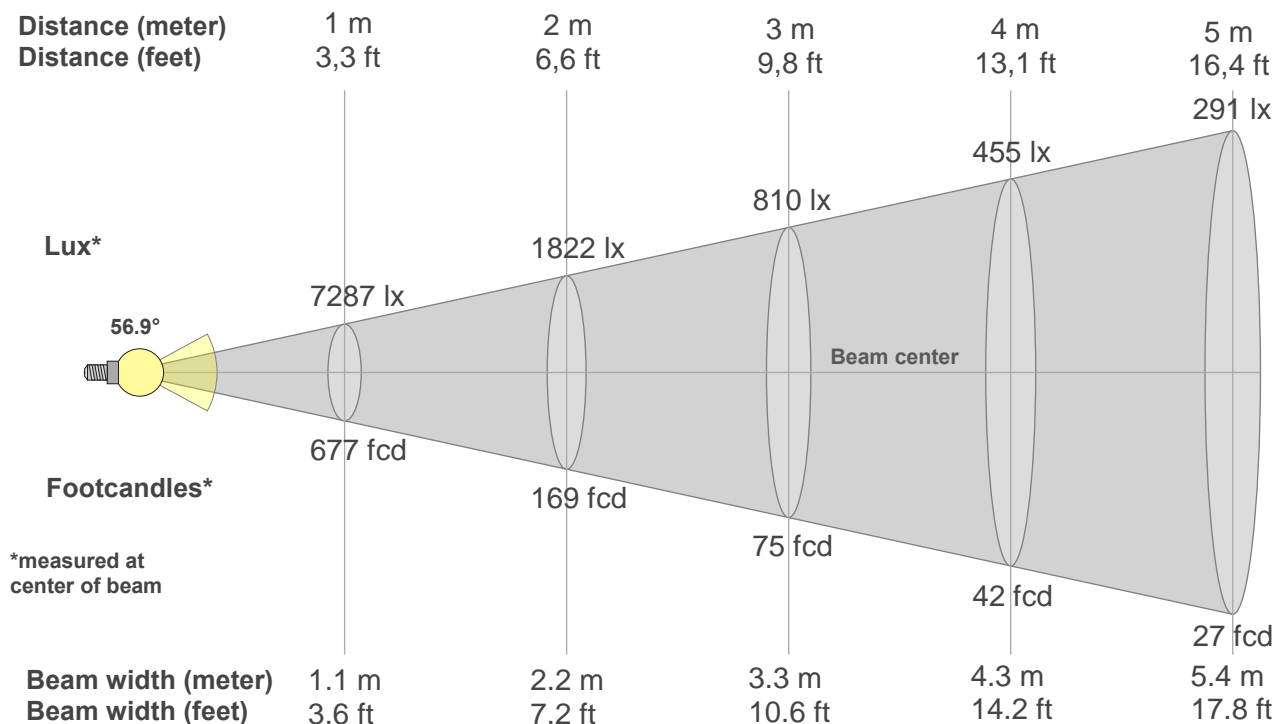
Rg 95.3

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	78	-11%	0%
2	80	-8%	7%
3	77	-3%	10%
4	88	-1%	5%
5	92	1%	4%
6	93	2%	-2%
7	86	-5%	-5%
8	91	-4%	-1%
9	86	-6%	5%
10	78	-4%	12%
11	78	0%	15%
12	83	7%	4%
13	87	5%	-7%
14	78	5%	-15%
15	83	-3%	-8%
16	73	-8%	-17%



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
7287lx	1822lx	810lx	455lx	291lx	202lx	149lx	114lx	90lx	73lx	60lx	51lx	43lx	37lx	32lx	28lx	25lx	22lx	20lx	18lx
676.9fc	169.2fc	75.2fcd	42.3fcd	27.1fcd	18.8fcd	13.8fcd	10.6fcd	8.4fcd	6.8fcd	5.6fcd	4.7fcd	4fcd	3.5fcd	3fcd	2.6fcd	2.3fcd	2.1fcd	1.9fcd	1.7fcd

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°
7287	7319	7420	7607	7875	8142	8433	8796	9296	8615	7568	6604	5896	5378	4844	3303	2056	1335	952	662
100%	100%	102%	104%	108%	112%	116%	121%	128%	118%	104%	91%	81%	74%	66%	45%	28%	18%	13%	9%

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°
7287	7319	7420	7607	7875	8142	8433	8796	9296	8615	7568	6604	5896	5378	4844	3303	2056	1335	952	662
100%	100%	102%	104%	108%	112%	116%	121%	128%	118%	104%	91%	81%	74%	66%	45%	28%	18%	13%	9%

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°
7287	7319	7420	7607	7875	8142	8433	8796	9296	8615	7568	6604	5896	5378	4844	3303	2056	1335	952	662
100%	100%	102%	104%	108%	112%	116%	121%	128%	118%	104%	91%	81%	74%	66%	45%	28%	18%	13%	9%

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°
7287	7319	7420	7607	7875	8142	8433	8796	9296	8615	7568	6604	5896	5378	4844	3303	2056	1335	952	662
100%	100%	102%	104%	108%	112%	116%	121%	128%	118%	104%	91%	81%	74%	66%	45%	28%	18%	13%	9%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
56.9°	72.3°	96.4°	97.4%	94.0%