

Light efficiency:

92 Lumen/Watt

Light quality:

CRI: 83.2

Color temperature:

3010 K

Output: 9016 lm

Peak: 21190 cd

Power: 98.3 W

PF: 1.0

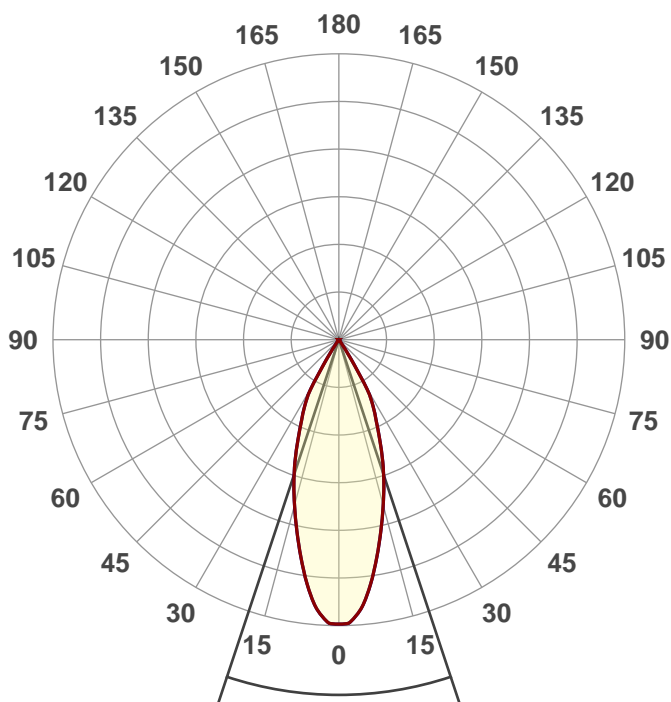


Product name:

680XK-9-CXB-90LM-30K-80-
SA40-10V-MC-S-M16

Date and time:

5/31/2018 12:25:20 PM



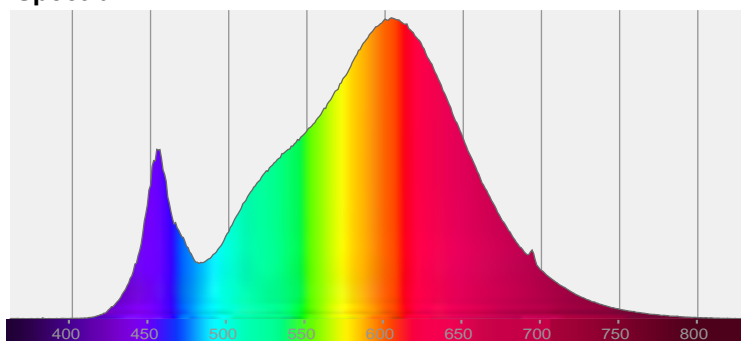
Beam angle

36.7°

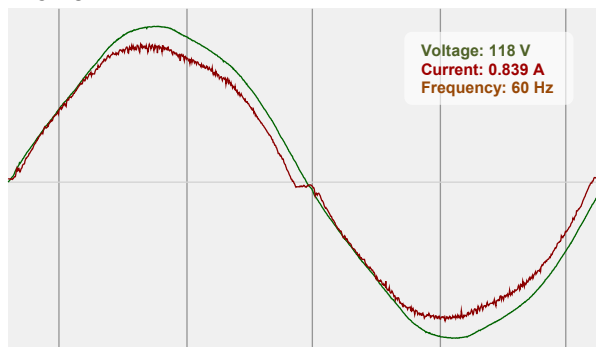


CIE 1931
x: 0.437
y: 0.405

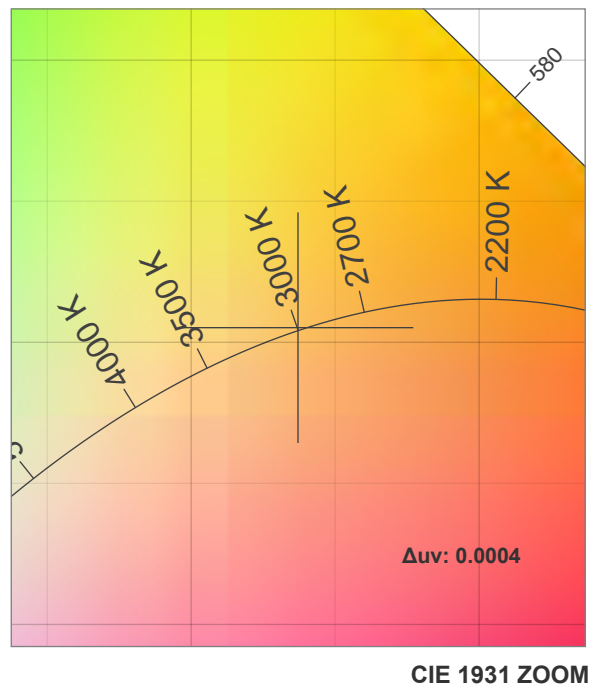
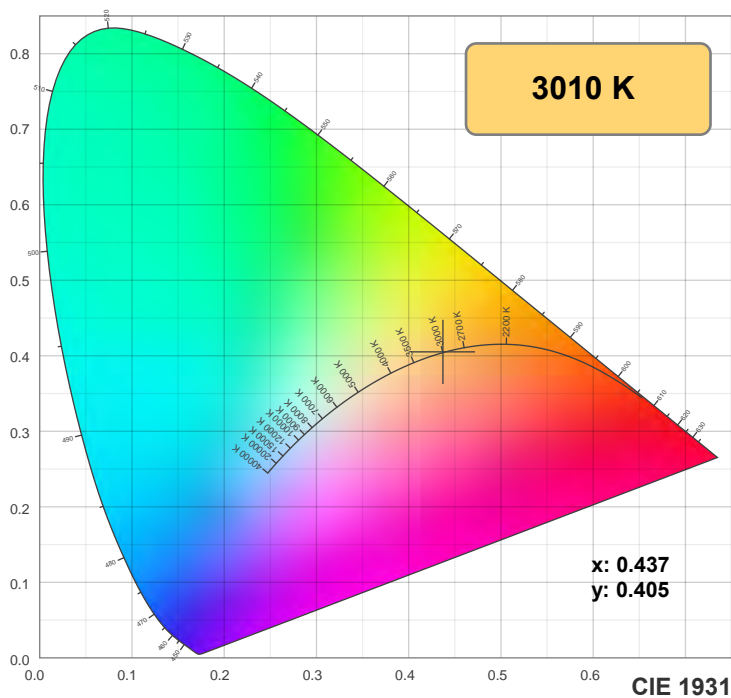
Spectra



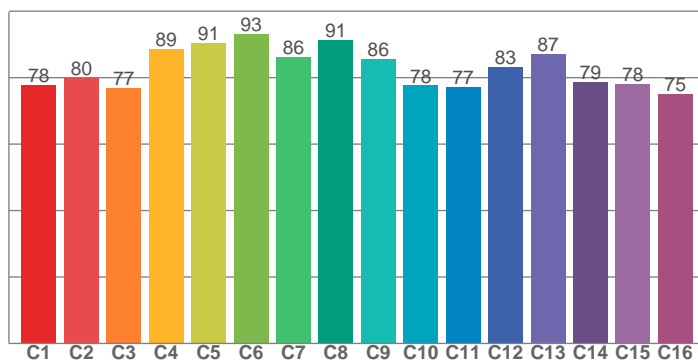
Power



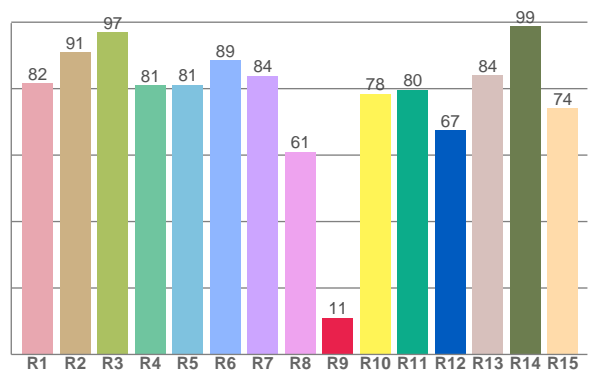
Color details



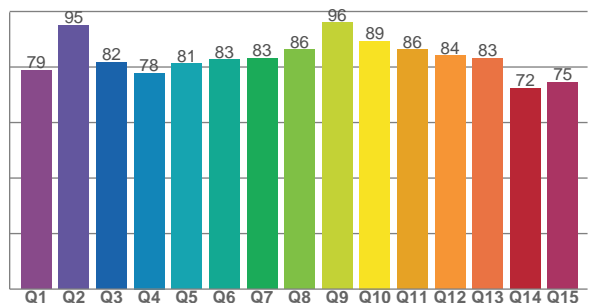
TM30: 82.9



CRI: 83.2 (R1-R8)



CQS: 82.2



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
81.7	91.0	97.0	81.0	81.1	88.5	83.8	61.0	11.0	78.4	79.7	67.5	84.0	98.7	74.2

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
77.9	79.9	76.9	88.7	90.6	93.3	86.2	91.3	85.6	77.7	77.3	83.3	87.2	78.7	78.1	75.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78.9	95.0	81.7	77.8	81.3	82.6	83.2	86.2	96.0	89.3	86.2	84.1	83.1	72.3	74.5

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
3010 K	83.2	11.0	82.9	95.4	82.2	0.437	0.405	0.250	0.348	0.0004

TM30 details

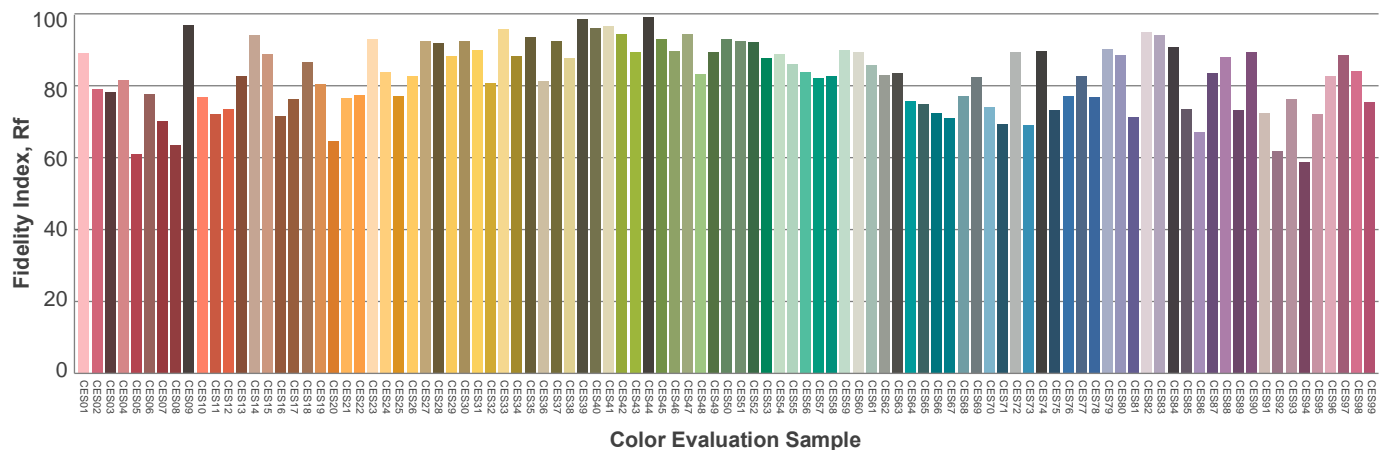
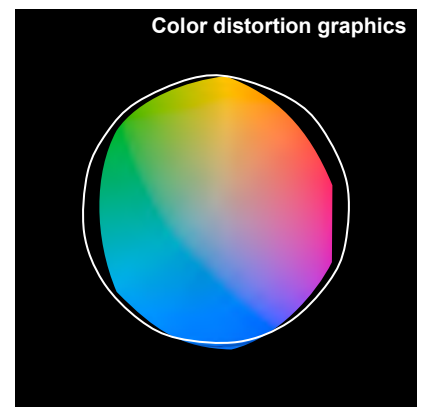
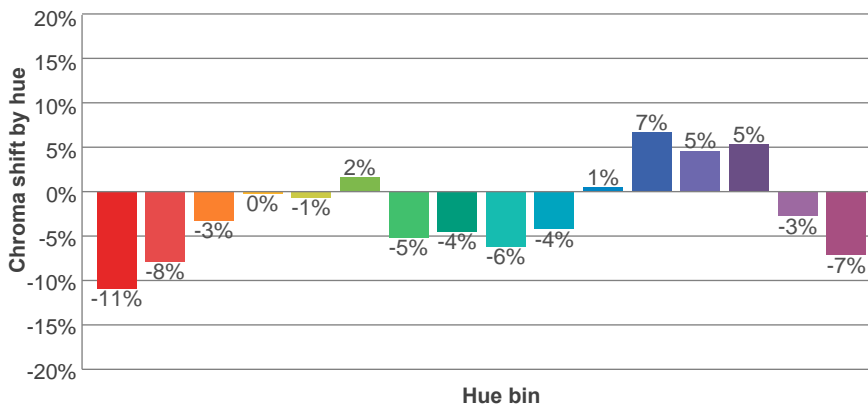
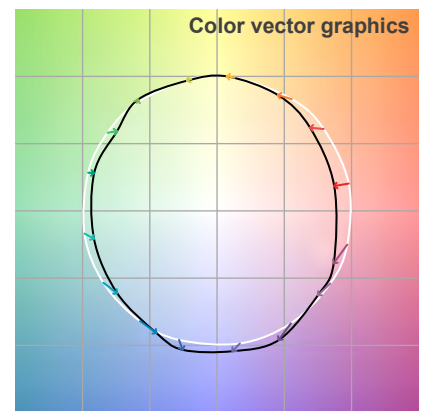
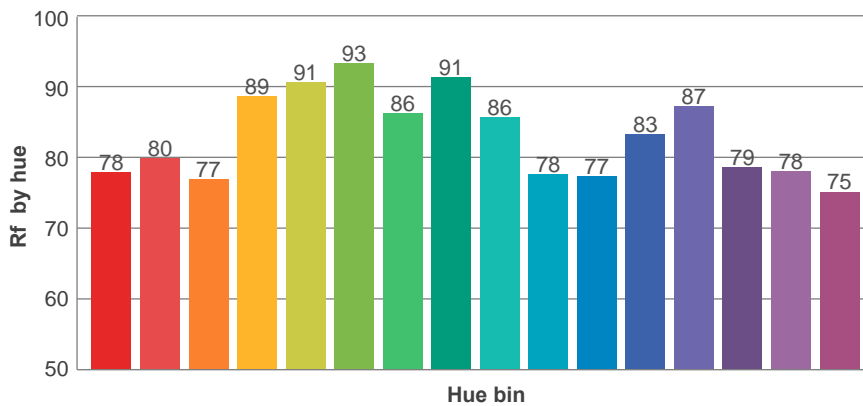
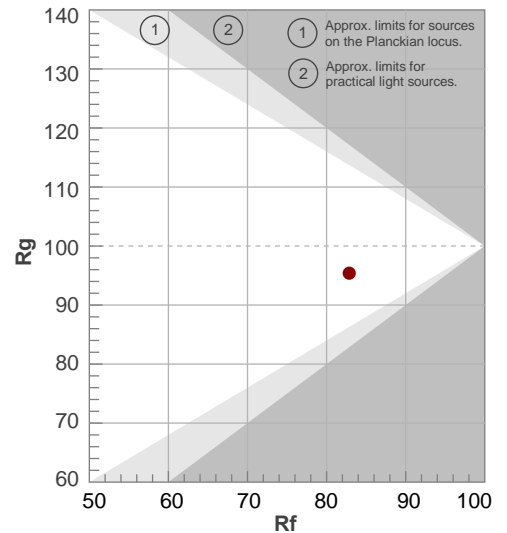
Rf 82.9

Fidelity index Rf

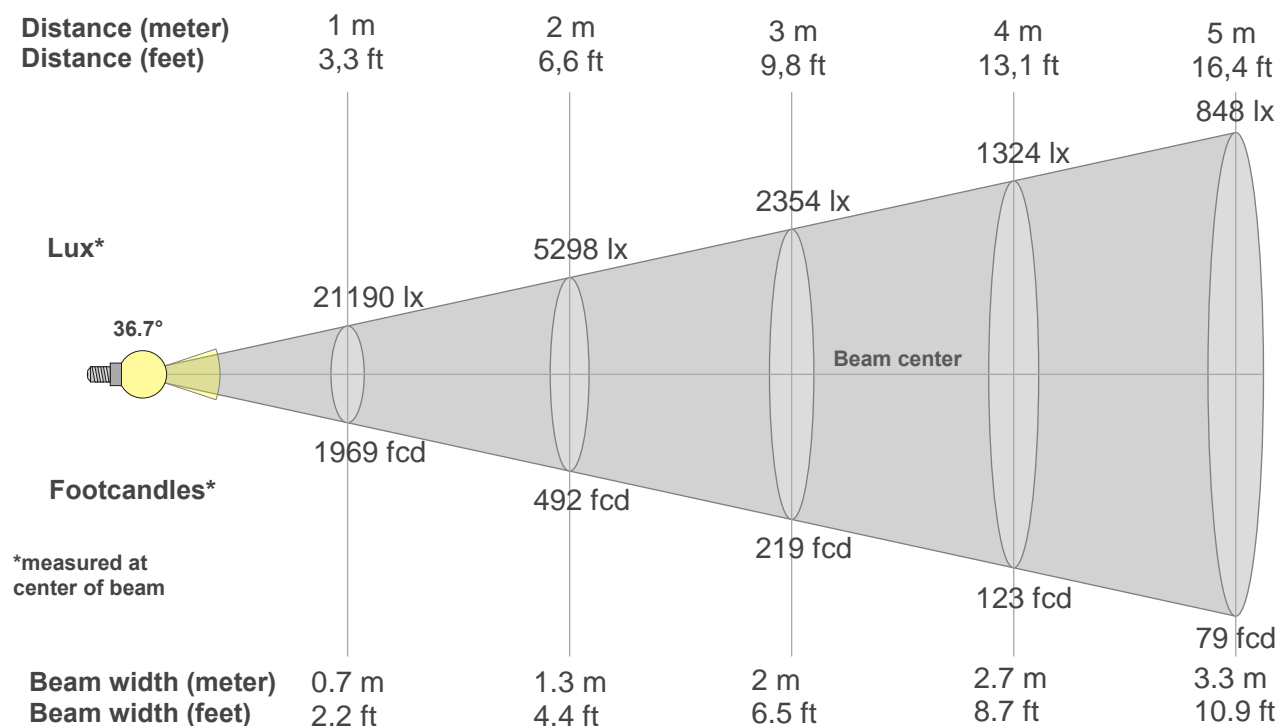
Rg 95.4

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	78	-11%	0%
2	80	-8%	6%
3	77	-3%	10%
4	89	0%	6%
5	91	-1%	4%
6	93	2%	-2%
7	86	-5%	-5%
8	91	-4%	0%
9	86	-6%	5%
10	78	-4%	12%
11	77	1%	15%
12	83	7%	4%
13	87	5%	-6%
14	79	5%	-14%
15	78	-3%	-12%
16	75	-7%	-16%



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
21190lx	5298lx	2354lx	1324lx	848lx	589lx	432lx	331lx	262lx	212lx	175lx	147lx	125lx	108lx	94lx	83lx	73lx	65lx	59lx	53lx
1968.6fcd	492.2fcd	218.7fcd	123fcd	78.7fcd	54.7fcd	40.2fcd	30.8fcd	24.3fcd	19.7fcd	16.3fcd	13.7fcd	11.6fcd	10fcd	8.7fcd	7.7fcd	6.8fcd	6.1fcd	5.5fcd	4.9fcd

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°
21.2K	21.1K	20.4K	19.3K	17.9K	16.4K	14.9K	13.5K	12.1K	10.8K	9.5K	8.2K	7.1K	6.1K	5.2K	3.9K	1.9K	0.7K	0.3K	0.2K
100%	99%	96%	91%	85%	77%	70%	64%	57%	51%	45%	39%	33%	29%	24%	19%	9%	3%	1%	1%

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°
21.2K	21.1K	20.4K	19.3K	17.9K	16.4K	14.9K	13.5K	12.1K	10.8K	9.5K	8.2K	7.1K	6.1K	5.2K	3.9K	1.9K	0.7K	0.3K	0.2K
100%	99%	96%	91%	85%	77%	70%	64%	57%	51%	45%	39%	33%	29%	24%	19%	9%	3%	1%	1%

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°
21.2K	21.1K	20.4K	19.3K	17.9K	16.4K	14.9K	13.5K	12.1K	10.8K	9.5K	8.2K	7.1K	6.1K	5.2K	3.9K	1.9K	0.7K	0.3K	0.2K
100%	99%	96%	91%	85%	77%	70%	64%	57%	51%	45%	39%	33%	29%	24%	19%	9%	3%	1%	1%

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°
21.2K	21.1K	20.4K	19.3K	17.9K	16.4K	14.9K	13.5K	12.1K	10.8K	9.5K	8.2K	7.1K	6.1K	5.2K	3.9K	1.9K	0.7K	0.3K	0.2K
100%	99%	96%	91%	85%	77%	70%	64%	57%	51%	45%	39%	33%	29%	24%	19%	9%	3%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36.7°	63.5°	68.7°	99.6%	99.2%