

Light efficiency:

**71 Lumen/Watt**

Light quality:

**CRI: 80.7**

Color temperature:

**2928 K**

**Output: 3729 lm**

**Peak: 7035 cd**

**Power: 52.4 W**

**PF: 0.99**

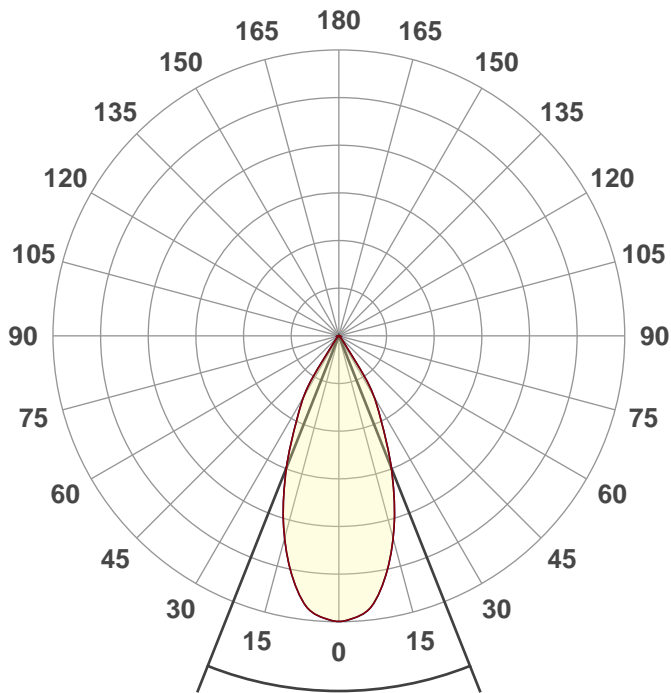


Product name:

**E680-4-XTM19-50LM-30K-83-MS45-DIM10-WH-RP**

Date and time:

**7/2/2019 12:16:49 PM**



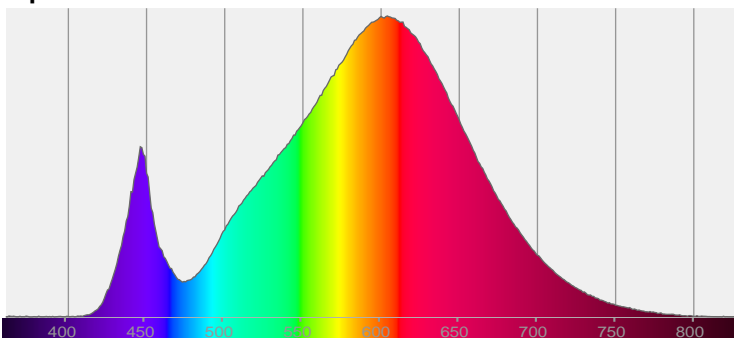
Beam angle

**43.3°**

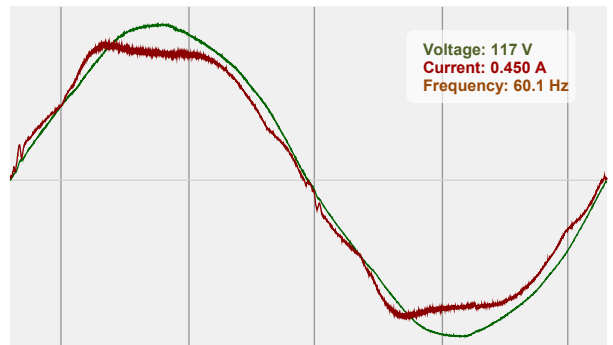


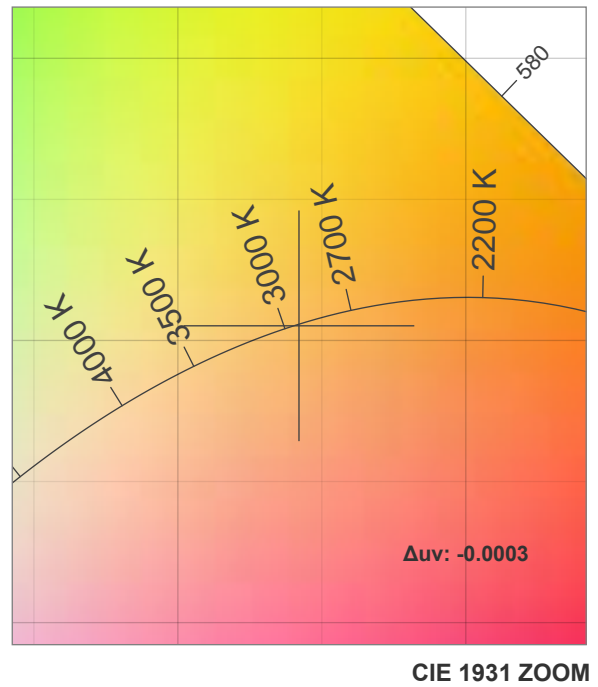
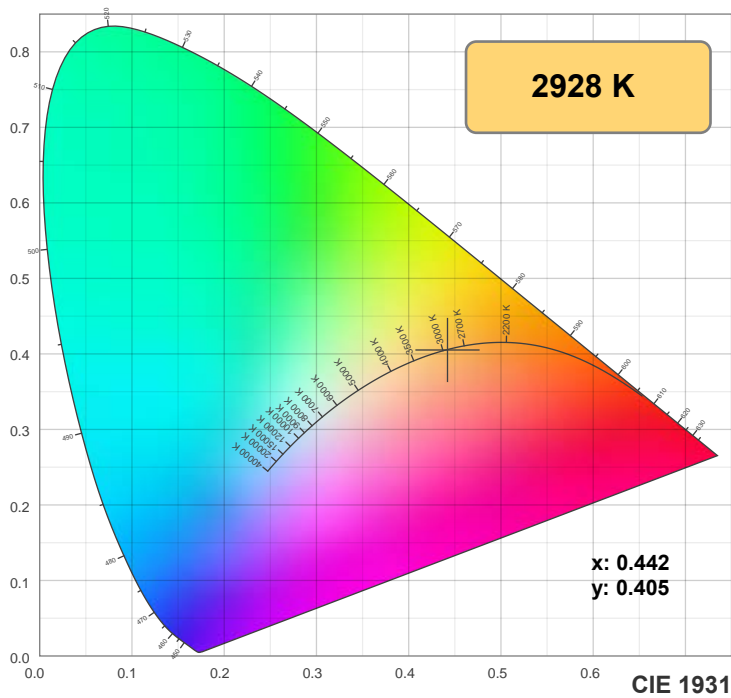
CIE 1931  
x: 0.442  
y: 0.405

Spectra

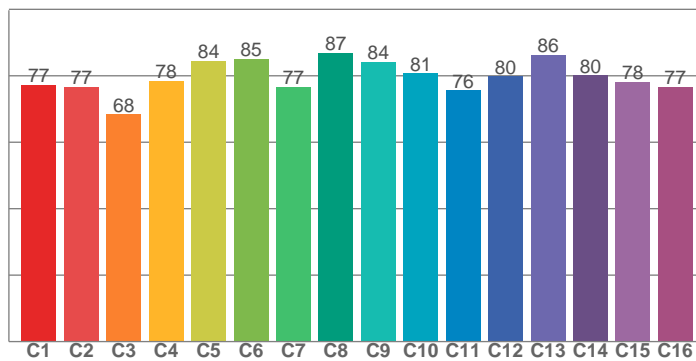


Power

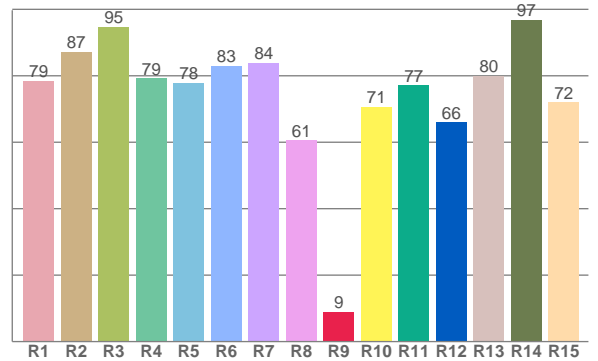




**TM30: 79.5**



**CRI: 80.7 (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
78.5	87.3	94.8	79.3	77.9	83.0	83.9	60.6	9.0	70.7	77.2	66.0	80.1	96.8	72.1

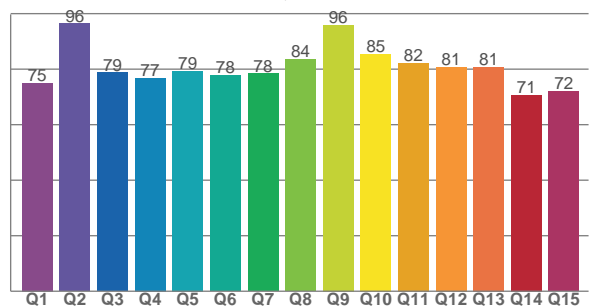
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
77.3	76.7	68.4	78.4	84.4	85.2	76.7	86.9	84.2	80.7	75.6	79.8	86.3	80.1	78.1	76.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
75.0	96.5	78.8	76.9	79.3	77.8	78.5	83.6	95.8	85.4	82.3	80.7	80.7	70.7	72.0

**CQS: 79.5**



## 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
2928 K	80.7	9.0	79.5	98.5	79.5	0.442	0.405	0.253	0.348	-0.0003

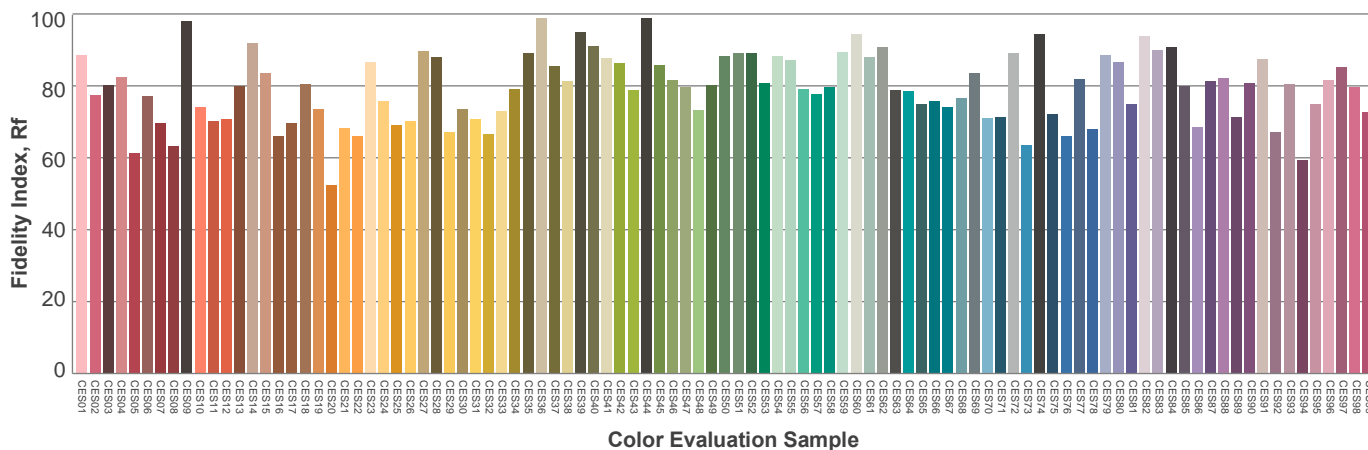
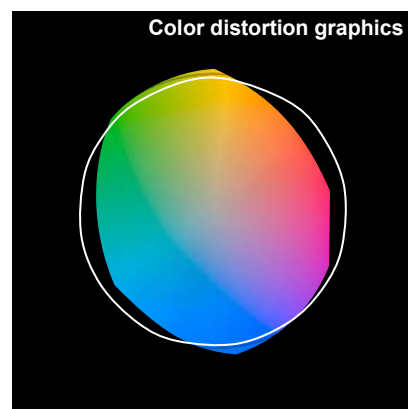
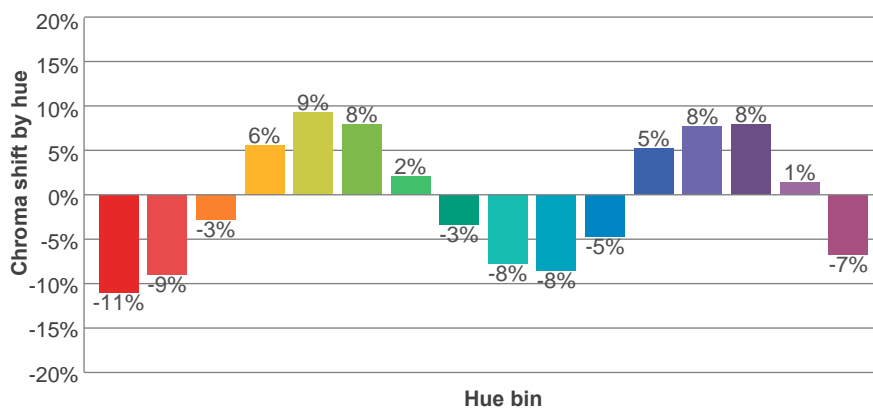
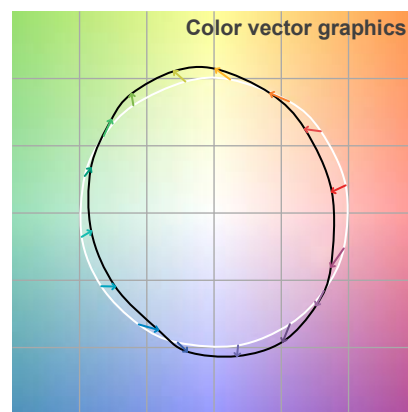
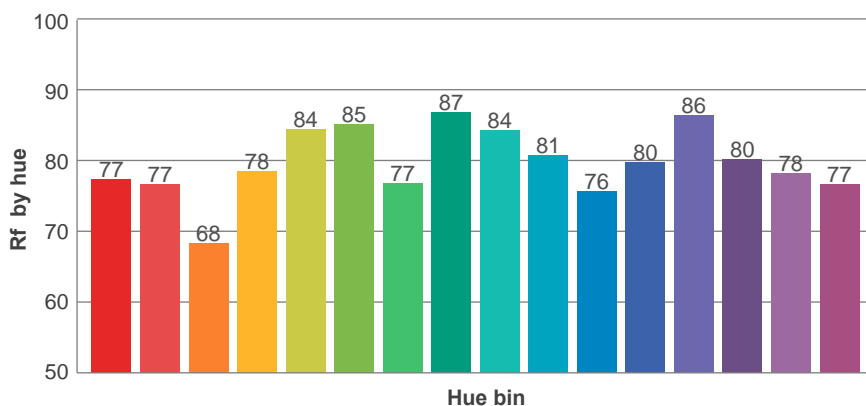
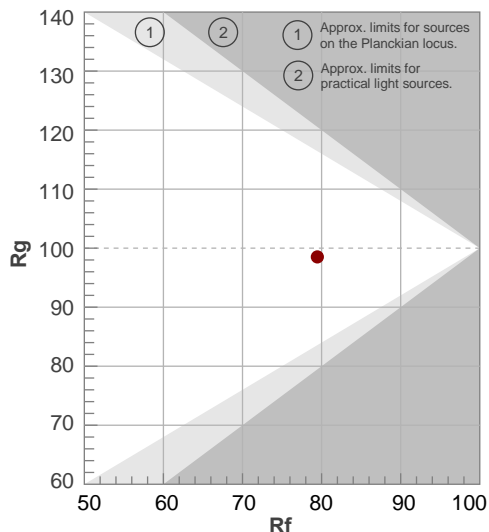
**Rf 79.5**

Fidelity index Rf

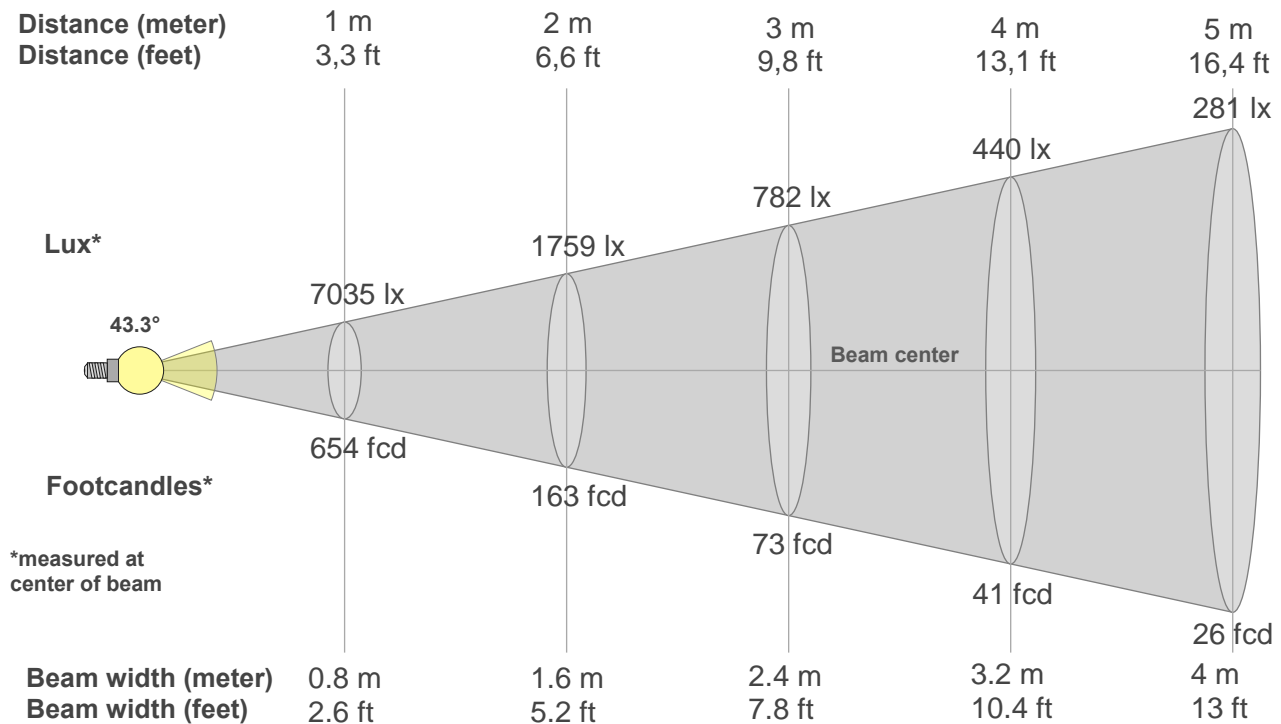
**Rg 98.5**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	77	-11%	-3%
2	77	-9%	8%
3	68	-3%	15%
4	78	6%	12%
5	84	9%	7%
6	85	8%	-4%
7	77	2%	-13%
8	87	-3%	-7%
9	84	-8%	-3%
10	81	-8%	6%
11	76	-5%	14%
12	80	5%	8%
13	86	8%	-2%
14	80	8%	-12%
15	78	1%	-12%
16	77	-7%	-15%



## 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
7035lx	1759lx	782lx	440lx	281lx	195lx	144lx	110lx	87lx	70lx	58lx	49lx	42lx	36lx	31lx	27lx	24lx	22lx	19lx	18lx
653.6fcd	163.4fcd	72.6fcd	40.8fcd	26.1fcd	18.2fcd	13.3fcd	10.2fcd	8.1fcd	6.5fcd	5.4fcd	4.5fcd	3.9fcd	3.3fcd	2.9fcd	2.6fcd	2.3fcd	2fcd	1.8fcd	1.6fcd

### 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°
7035	7031	6916	6801	6553	6209	5851	5397	4942	4451	3941	3436	2950	2464	2072	1710	1307	808	309	163
100%	100%	98%	97%	93%	88%	83%	77%	70%	63%	56%	49%	42%	35%	29%	24%	19%	11%	4%	2%

### 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°
7035	7031	6916	6801	6553	6209	5851	5397	4942	4451	3941	3436	2950	2464	2072	1710	1307	808	309	163
100%	100%	98%	97%	93%	88%	83%	77%	70%	63%	56%	49%	42%	35%	29%	24%	19%	11%	4%	2%

### 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°
7035	7031	6916	6801	6553	6209	5851	5397	4942	4451	3941	3436	2950	2464	2072	1710	1307	808	309	163
100%	100%	98%	97%	93%	88%	83%	77%	70%	63%	56%	49%	42%	35%	29%	24%	19%	11%	4%	2%

### 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°
7035	7031	6916	6801	6553	6209	5851	5397	4942	4451	3941	3436	2950	2464	2072	1710	1307	808	309	163
100%	100%	98%	97%	93%	88%	83%	77%	70%	63%	56%	49%	42%	35%	29%	24%	19%	11%	4%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
43.3°	68.8°	75.3°	99.8%	99.5%