

Light efficiency:

54 Lumen/Watt

Light quality:

CRI: 84.1

Color temperature:

2928 K

Output: 1192 lm

Peak: 9576 cd

Power: 22.3 W

PF: 0.96

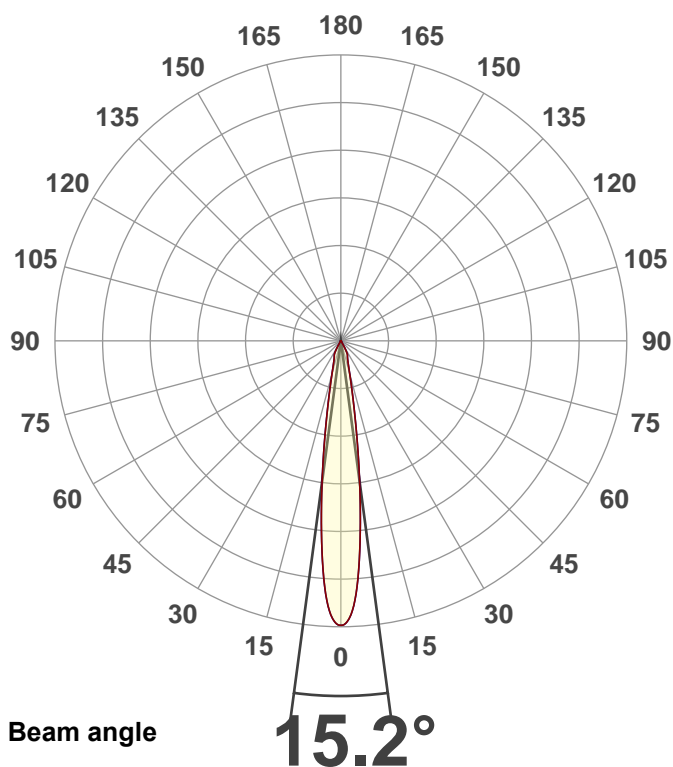


Product name:

NU4-RH-XTM09-13LM-30K-83-WHS15-120-DIM10-NC-WH

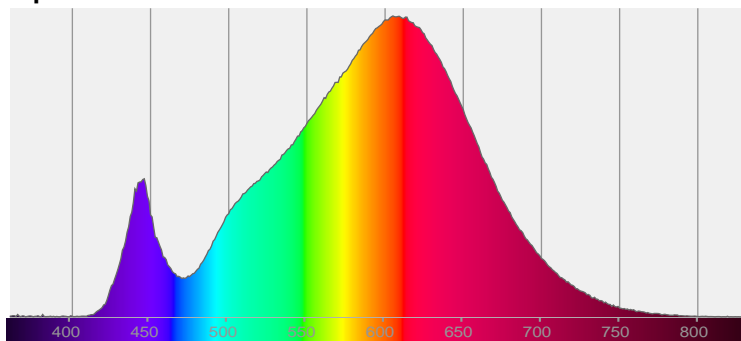
Date and time:

9/24/2018 2:21:41 PM

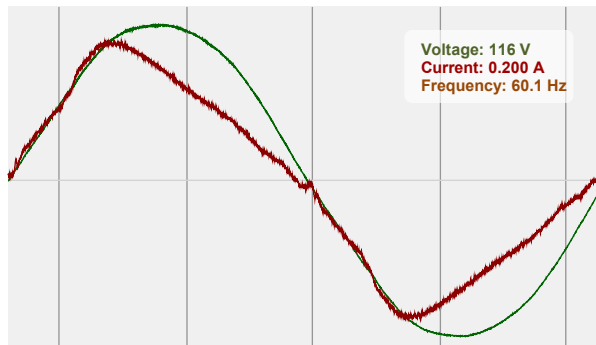


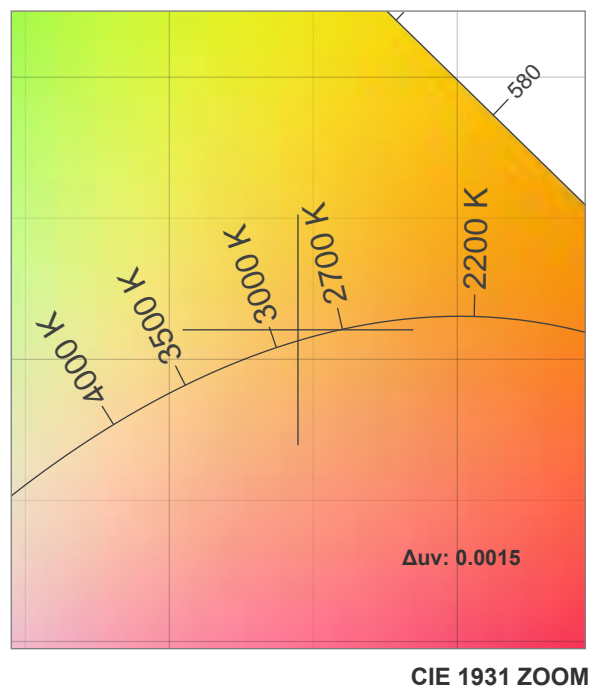
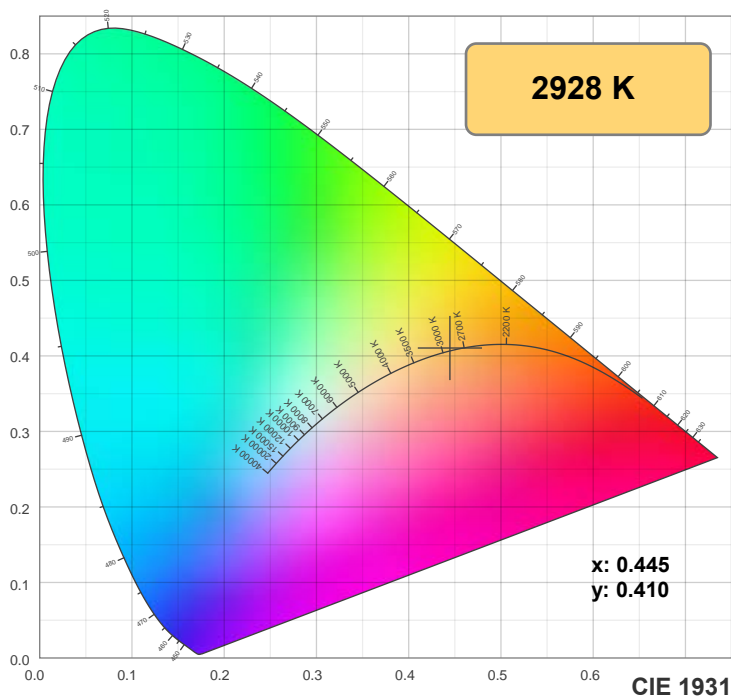
CIE 1931
x: 0.445
y: 0.410

Spectra

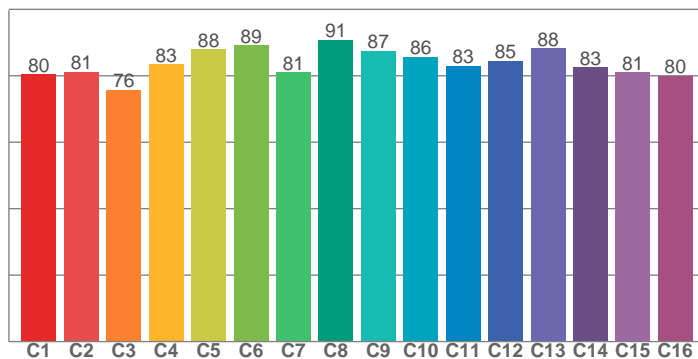


Power

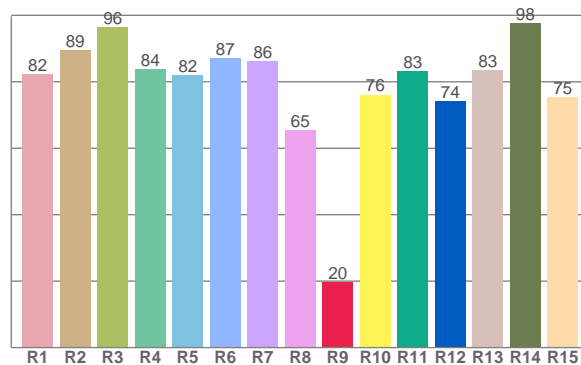




TM30: 83.7



CRI: 84.1 (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
82.2	89.5	96.4	83.8	82.0	87.0	86.3	65.3	19.6	76.1	83.2	74.1	83.4	97.7	75.4

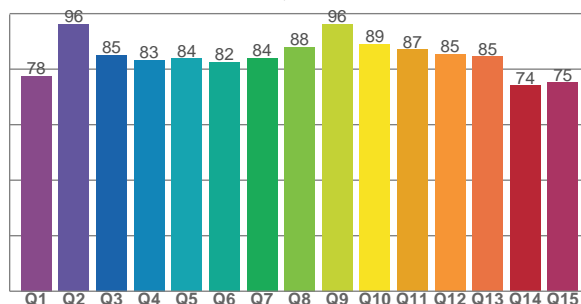
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.4	81.1	75.8	83.4	88.0	89.2	81.0	90.9	87.5	85.8	82.9	84.5	88.2	82.6	81.1	80.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.6	96.2	85.1	83.3	83.8	82.5	84.0	87.9	96.2	89.1	87.1	85.4	84.6	74.0	75.2

CQS: 83.5



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	84.1	19.6	83.7	98.3	83.5	0.445	0.410	0.253	0.350	0.0015

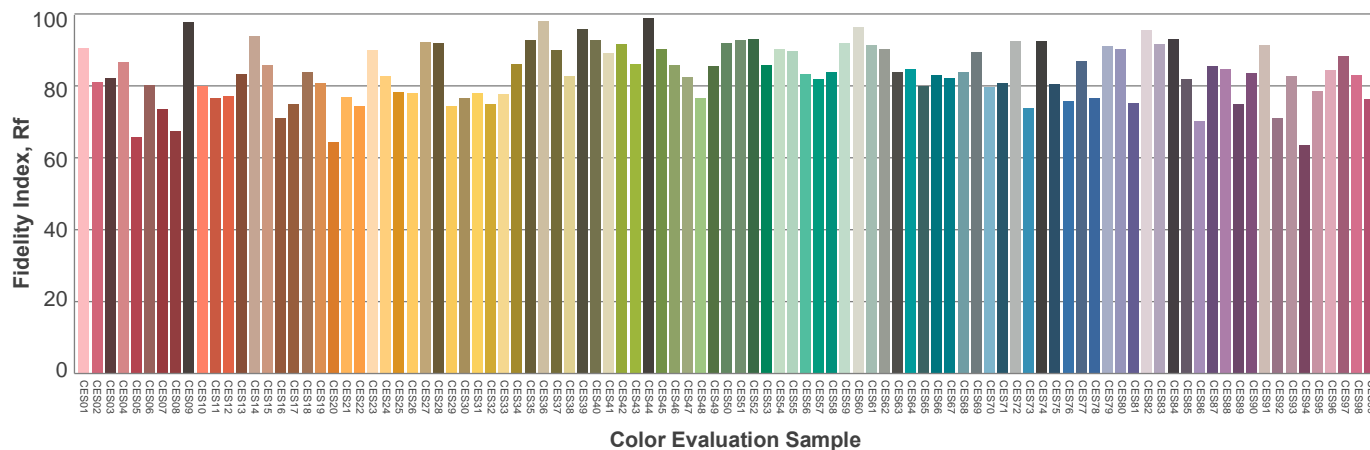
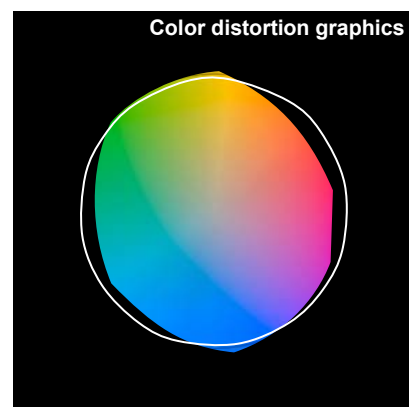
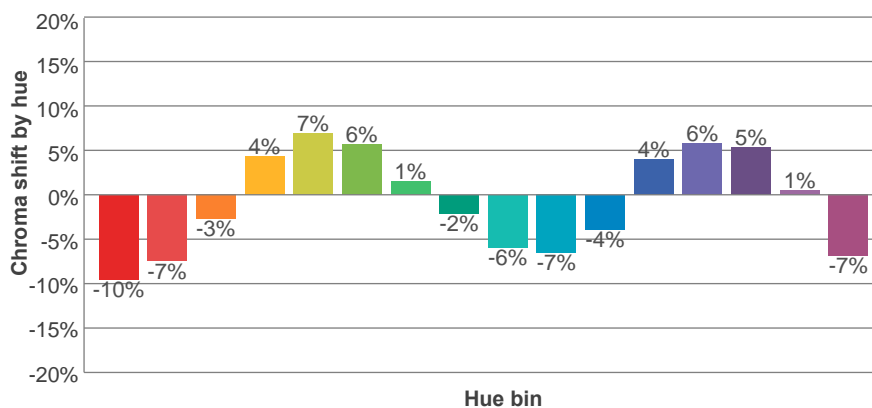
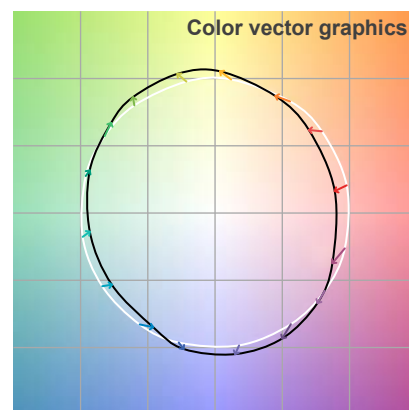
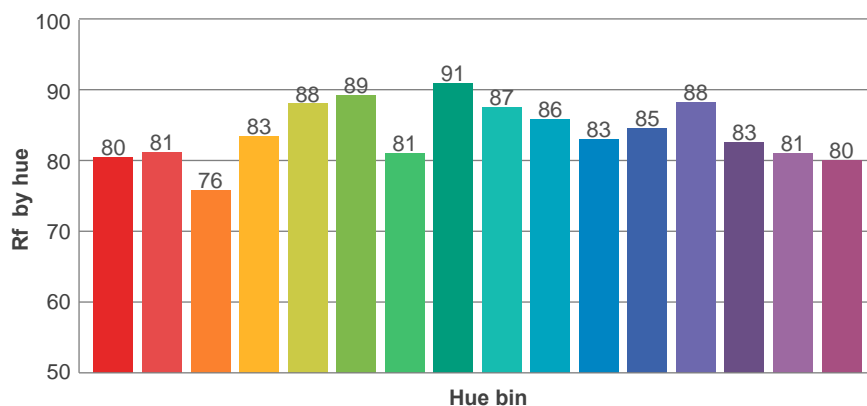
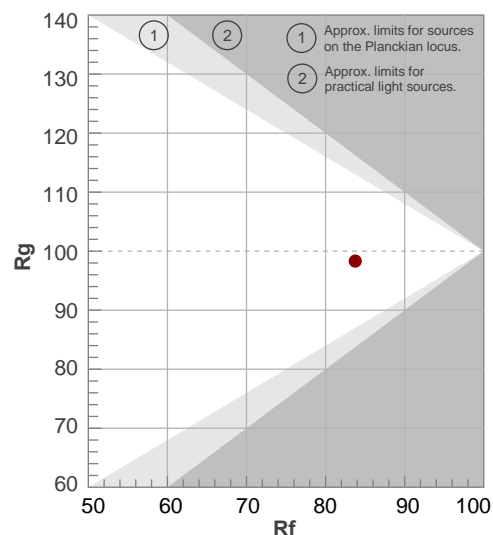
Rf 83.7

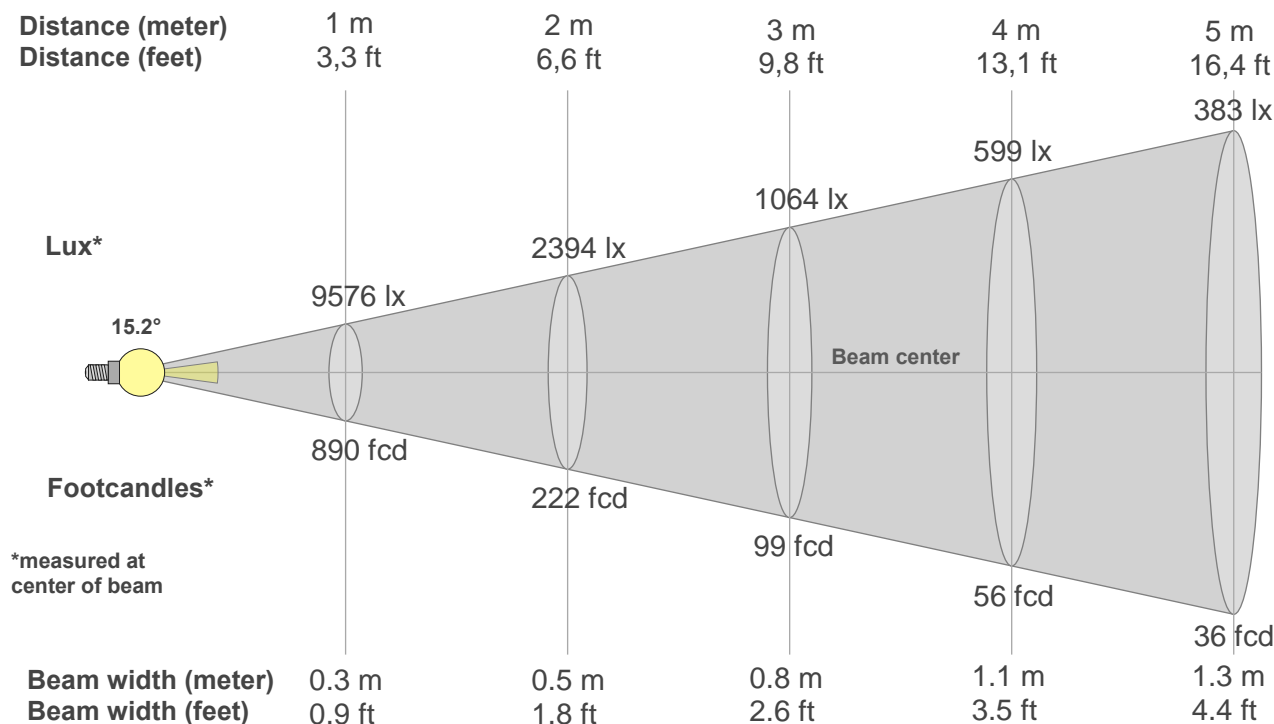
Fidelity index Rf

Rg 98.3

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	80	-10%	-2%
2	81	-7%	6%
3	76	-3%	11%
4	83	4%	9%
5	88	7%	5%
6	89	6%	-2%
7	81	1%	-11%
8	91	-2%	-5%
9	87	-6%	-3%
10	86	-7%	3%
11	83	-4%	9%
12	85	4%	4%
13	88	6%	-4%
14	83	5%	-11%
15	81	1%	-10%
16	80	-7%	-13%





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
9576lx	2394lx	1064lx	599lx	383lx	266lx	195lx	150lx	118lx	96lx	79lx	67lx	57lx	49lx	43lx	37lx	33lx	30lx	27lx	24lx
889.7fcd	222.4fcd	98.9fcd	55.6fcd	35.6fcd	24.7fcd	18.2fcd	13.9fcd	11fcd	8.9fcd	7.4fcd	6.2fcd	5.3fcd	4.5fcd	4fcd	3.5fcd	3.1fcd	2.7fcd	2.5fcd	2.2fcd

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
9576	9511	9261	8806	8108	7228	6273	5323	4428	3617	2931	2372	1947	1613	1357	1156	1004	885	796	726
100%	99%	97%	92%	85%	75%	66%	56%	46%	38%	31%	25%	20%	17%	14%	12%	10%	9%	8%	8%

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
9576	9511	9261	8806	8108	7228	6273	5323	4428	3617	2931	2372	1947	1613	1357	1156	1004	885	796	726
100%	99%	97%	92%	85%	75%	66%	56%	46%	38%	31%	25%	20%	17%	14%	12%	10%	9%	8%	8%

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
9576	9511	9261	8806	8108	7228	6273	5323	4428	3617	2931	2372	1947	1613	1357	1156	1004	885	796	726
100%	99%	97%	92%	85%	75%	66%	56%	46%	38%	31%	25%	20%	17%	14%	12%	10%	9%	8%	8%

Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
9576	9511	9261	8806	8108	7228	6273	5323	4428	3617	2931	2372	1947	1613	1357	1156	1004	885	796	726
100%	99%	97%	92%	85%	75%	66%	56%	46%	38%	31%	25%	20%	17%	14%	12%	10%	9%	8%	8%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
15.2°	32.7°	58°	99.1%	96.5%