

Light efficiency:

**72 Lumen/Watt**

Light quality:

**CRI: 83.7**

Color temperature:

**2997 K**

**Output: 1638 lm**

**Peak: 2515 cd**

**Power: 22.7 W**

**PF: 0.97**

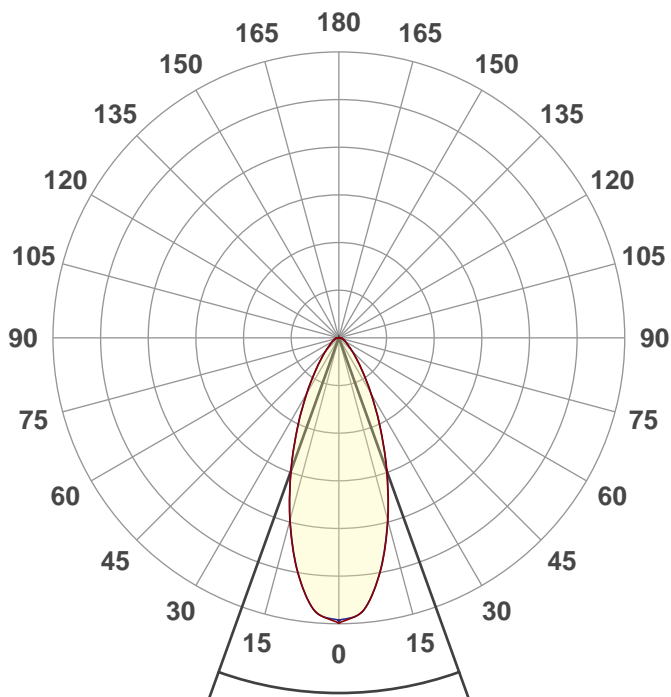


Product name:

**NU3-RD-SW-27LM-30K-80-HE40-120-NC-WH-WH**

Date and time:

**12/15/2018 11:35:26 AM**



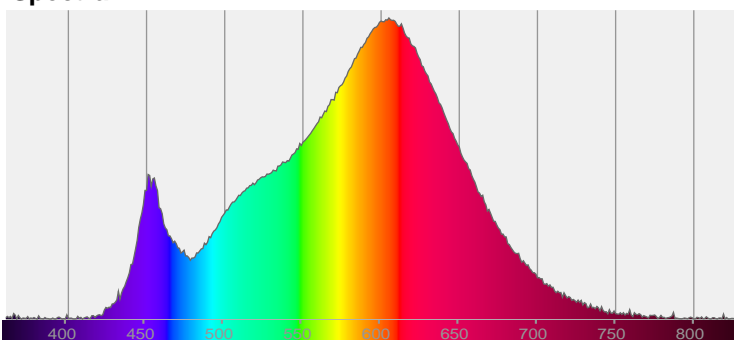
Beam angle

**39.6°**

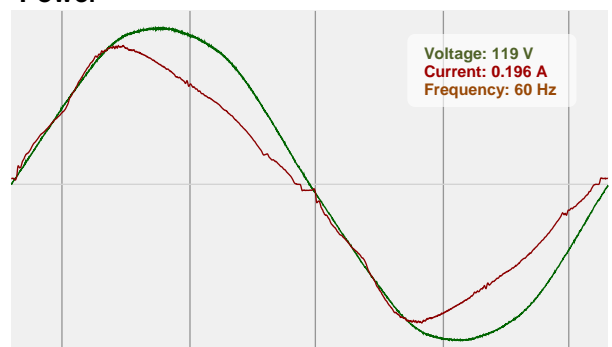


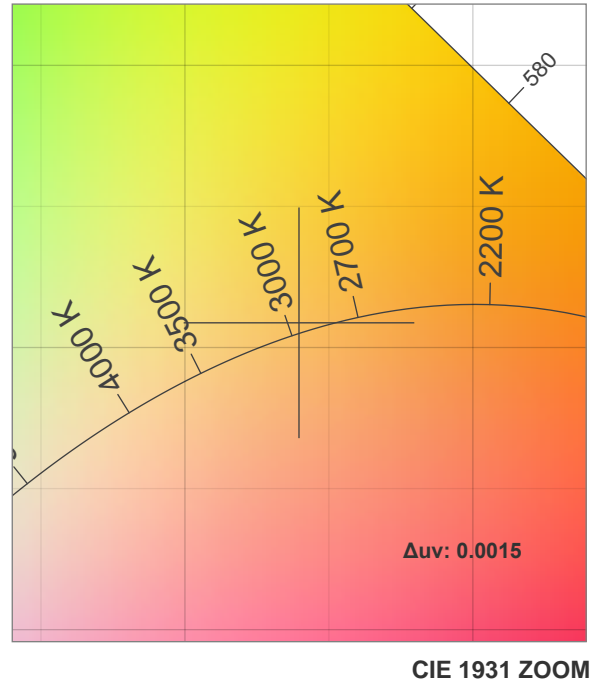
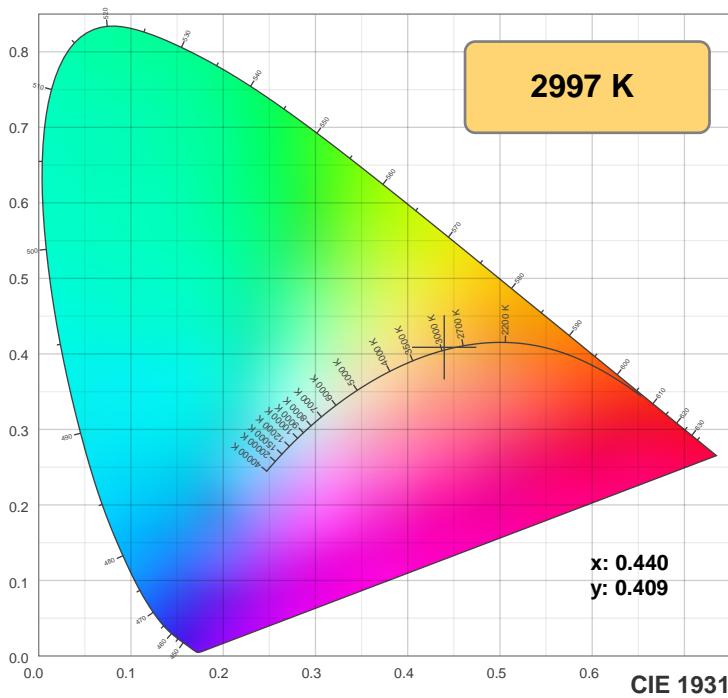
CIE 1931  
x: 0.440  
y: 0.409

Spectra

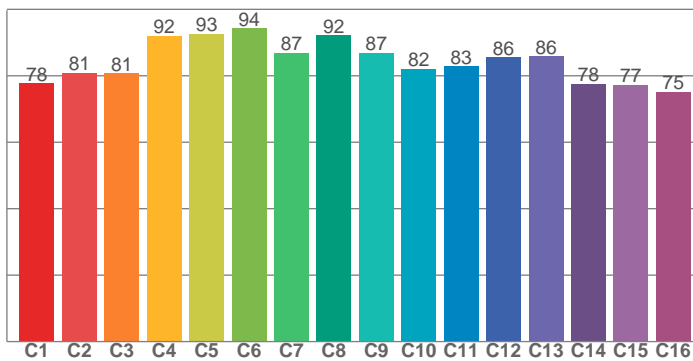


Power

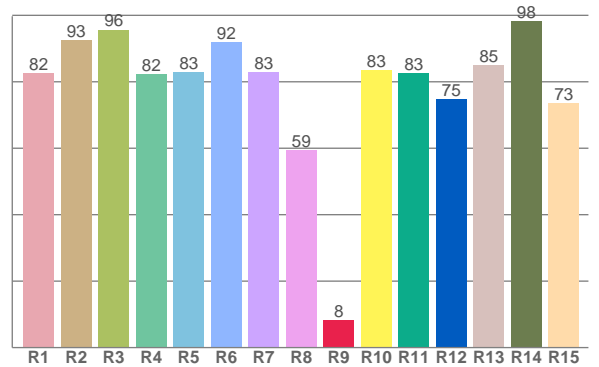




TM30: 84.5



CRI: 83.7 (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
82.5	92.5	95.6	82.3	82.9	91.9	82.8	59.3	8.2	83.4	82.6	74.6	85.1	98.2	73.5

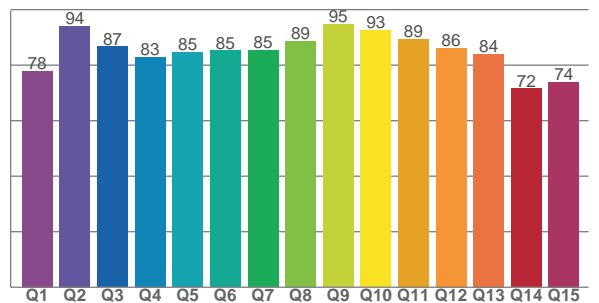
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
77.7	80.9	80.7	91.9	92.6	94.3	87.0	92.1	86.9	82.1	82.8	85.5	85.8	77.6	77.2	75.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.9	94.0	86.7	83.0	84.6	85.2	85.3	88.6	94.7	92.6	89.3	86.2	84.0	71.6	73.9

CQS: 83.7



## 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
2997 K	83.7	8.2	84.5	94.3	83.7	0.440	0.409	0.250	0.349	0.0015

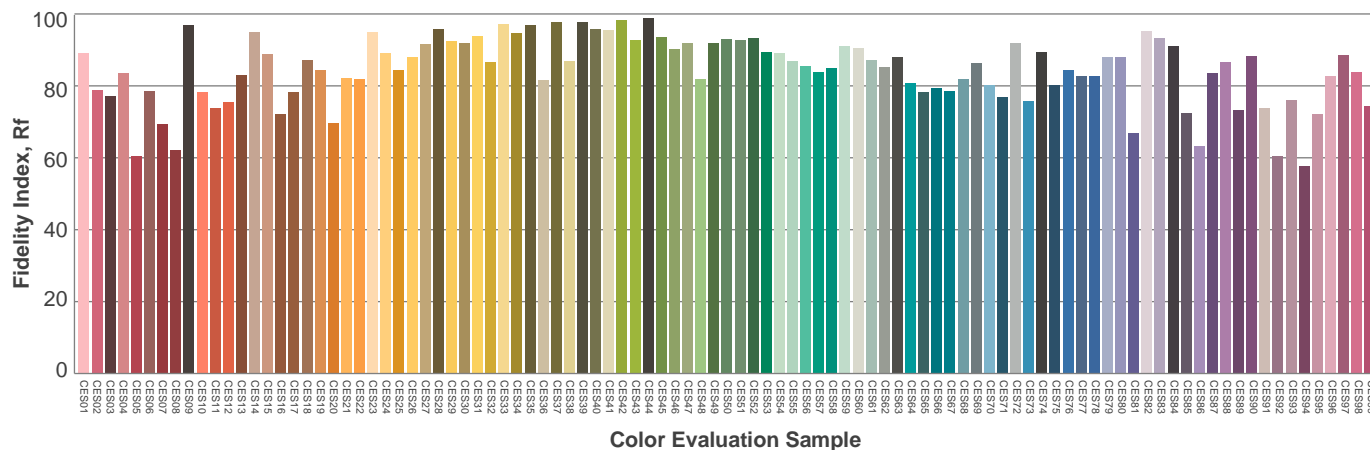
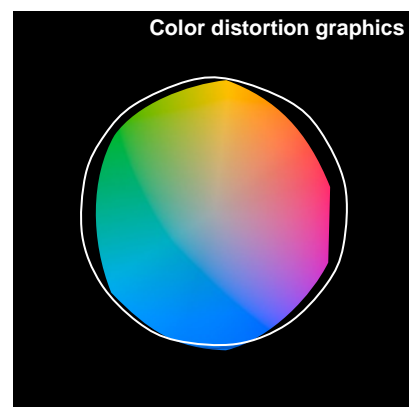
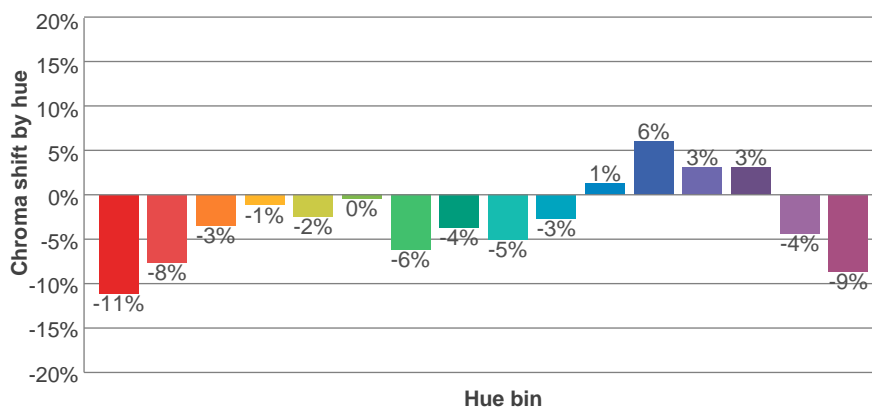
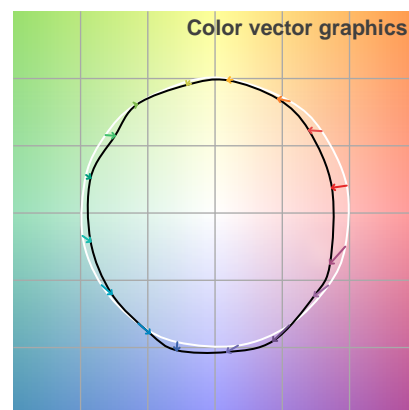
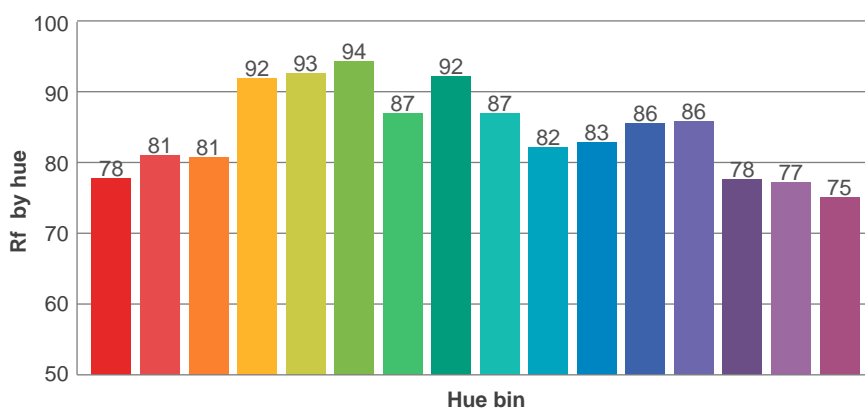
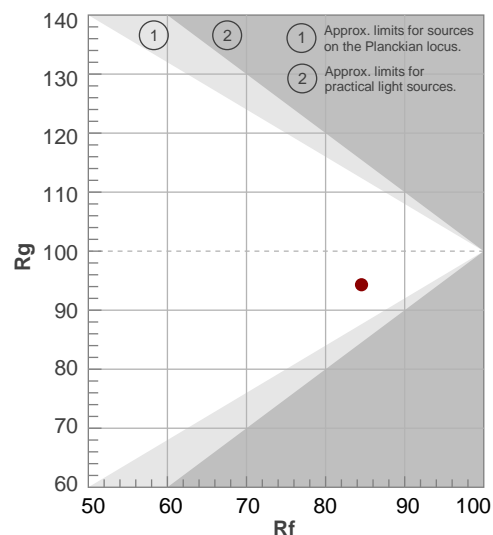
**Rf 84.5**

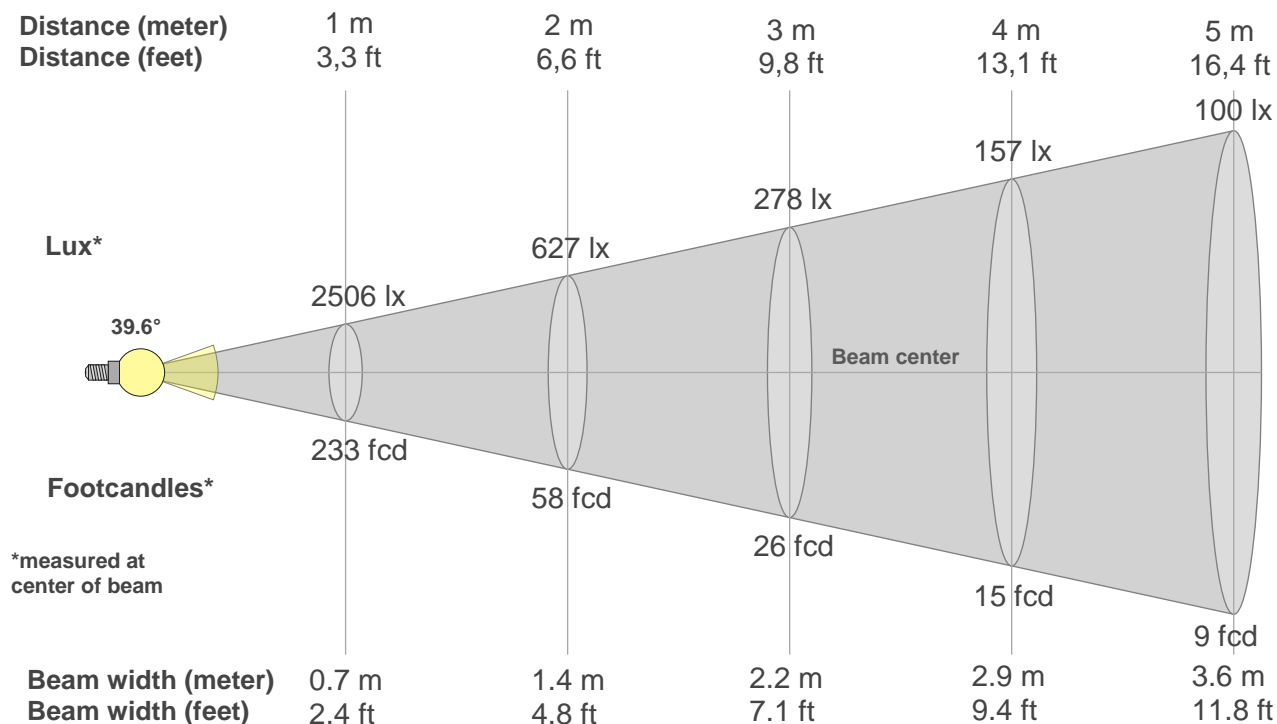
Fidelity index Rf

**Rg 94.3**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	78	-11%	1%
2	81	-8%	6%
3	81	-3%	8%
4	92	-1%	4%
5	93	-2%	2%
6	94	0%	-2%
7	87	-6%	-4%
8	92	-4%	2%
9	87	-5%	5%
10	82	-3%	10%
11	83	1%	11%
12	86	6%	1%
13	86	3%	-9%
14	78	3%	-16%
15	77	-4%	-12%
16	75	-9%	-15%





**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
2506lx	627lx	278lx	157lx	100lx	70lx	51lx	39lx	31lx	25lx	21lx	17lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx
232.8fcd	58.2fcd	25.9fcd	14.6fcd	9.3fcd	6.5fcd	4.8fcd	3.6fcd	2.9fcd	2.3fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd

**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°
2506	2482	2440	2370	2235	2100	1933	1760	1586	1412	1238	1086	936	801	686	572	490	412	346	296
100%	99%	97%	95%	89%	84%	77%	70%	63%	56%	49%	43%	37%	32%	27%	23%	20%	16%	14%	12%

**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°
2506	2470	2441	2364	2231	2099	1927	1754	1581	1406	1233	1081	928	797	680	567	486	405	342	291
100%	99%	97%	94%	89%	84%	77%	70%	63%	56%	49%	43%	37%	32%	27%	23%	19%	16%	14%	12%

**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°
2506	2482	2440	2370	2235	2100	1933	1760	1586	1412	1238	1086	936	801	686	572	490	412	346	296
100%	99%	97%	95%	89%	84%	77%	70%	63%	56%	49%	43%	37%	32%	27%	23%	20%	16%	14%	12%

**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°
2506	2470	2441	2364	2231	2099	1927	1754	1581	1406	1233	1081	928	797	680	567	486	405	342	291
100%	99%	97%	94%	89%	84%	77%	70%	63%	56%	49%	43%	37%	32%	27%	23%	19%	16%	14%	12%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39.6°	79.4°	122.8°	92.9%	84.7%