

Light efficiency:

80 Lumen/Watt

Light quality:

CRI: 84.8

Color temperature:

3028 K

Output: 838 lm

Peak: 1315 cd

Power: 10.4 W

PF: 0.95

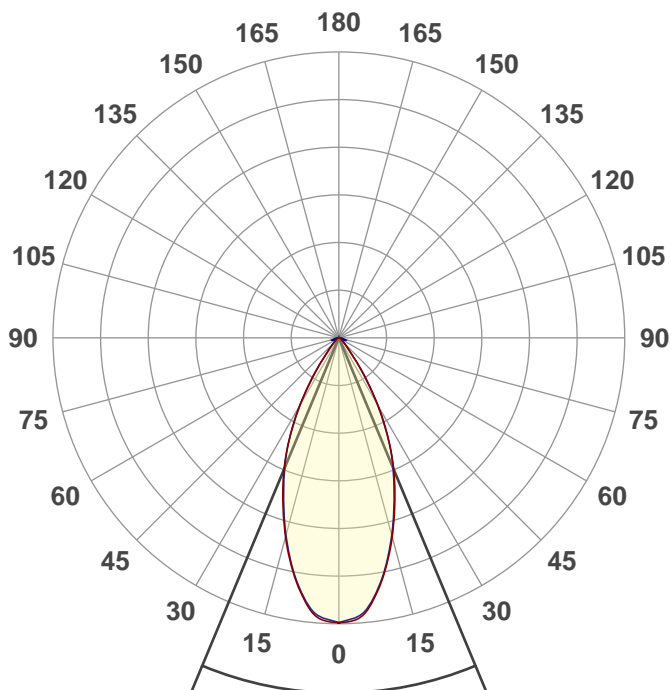


Product name:

**NU3-RD-SW-13LM-30K-80-D45-NL-120-NC-WH-WH**

Date and time:

**2/8/2019 9:33:36 AM**



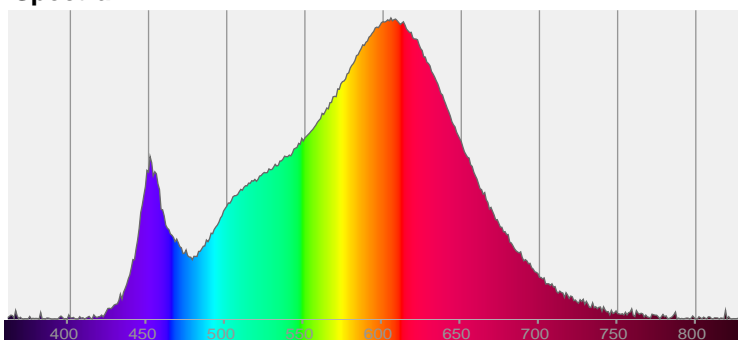
Beam angle

**45.2°**

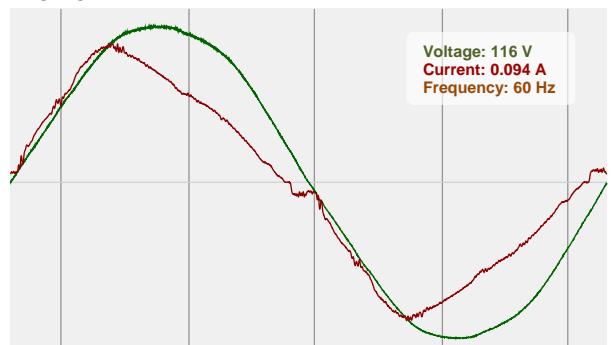


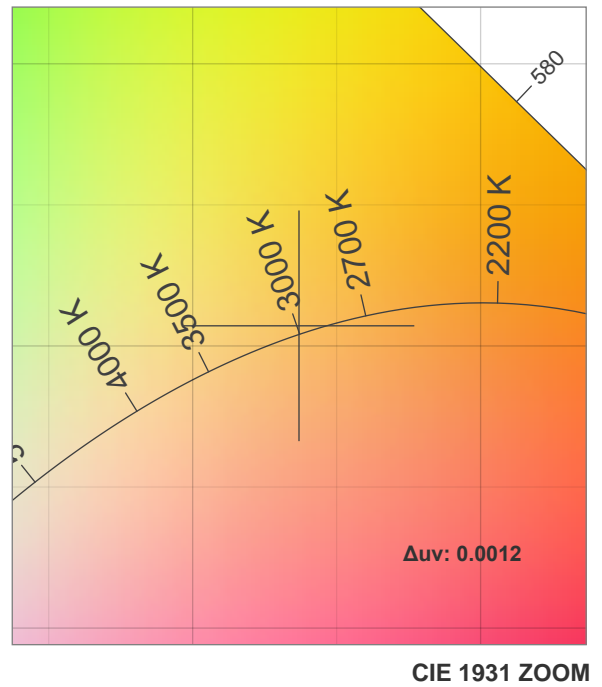
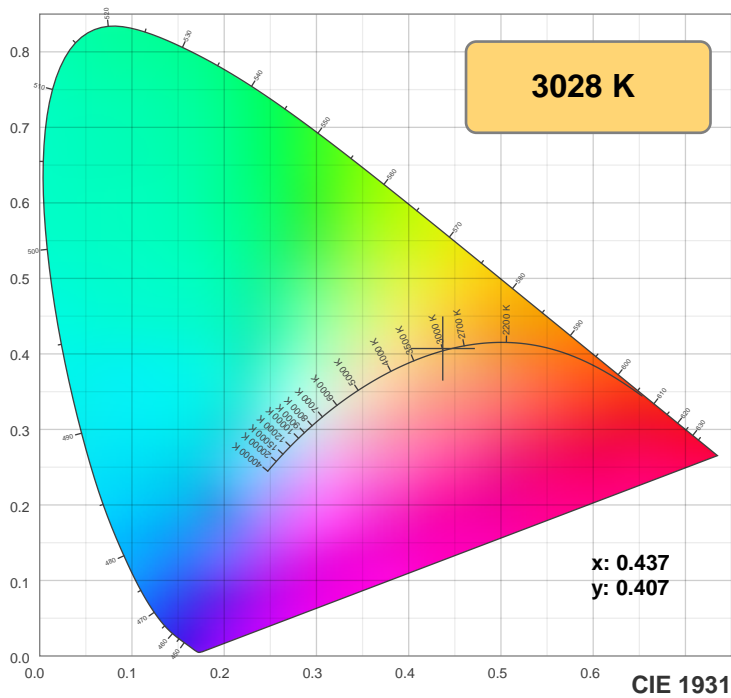
CIE 1931  
x: 0.437  
y: 0.407

Spectra

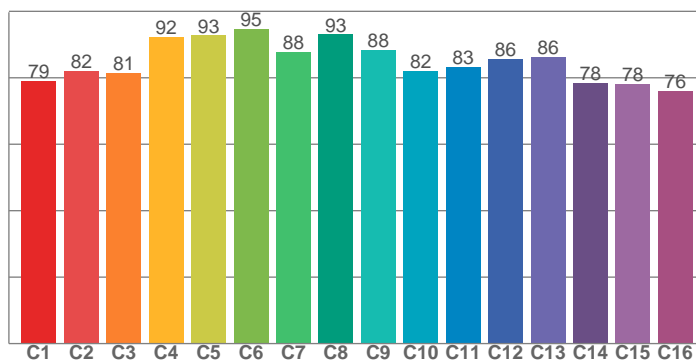


Power

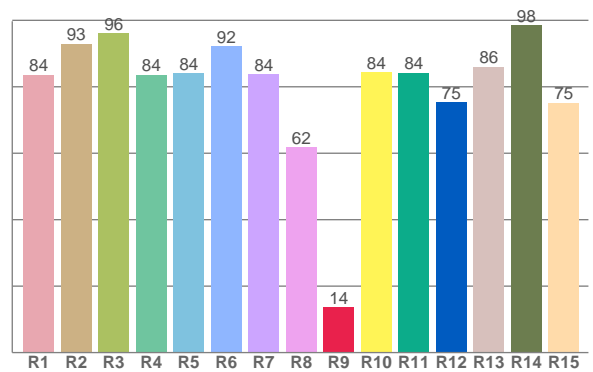




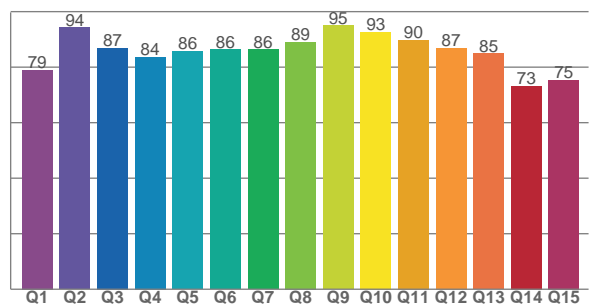
**TM30: 85.3**



**CRI: 84.8 (R1-R8)**



**CQS: 84.5**



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
83.7	93.0	96.1	83.6	84.1	92.3	83.8	61.8	13.7	84.3	84.2	75.4	86.1	98.5	75.2

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
79.1	82.1	81.5	92.2	92.7	94.6	87.9	93.1	88.4	82.0	83.3	85.7	86.3	78.4	78.2	76.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79.0	94.3	86.8	83.7	85.7	86.4	86.4	89.1	95.0	92.7	89.8	86.9	84.9	73.2	75.3

## 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
3028 K	84.8	13.7	85.3	95.1	84.5	0.437	0.407	0.249	0.348	0.0012

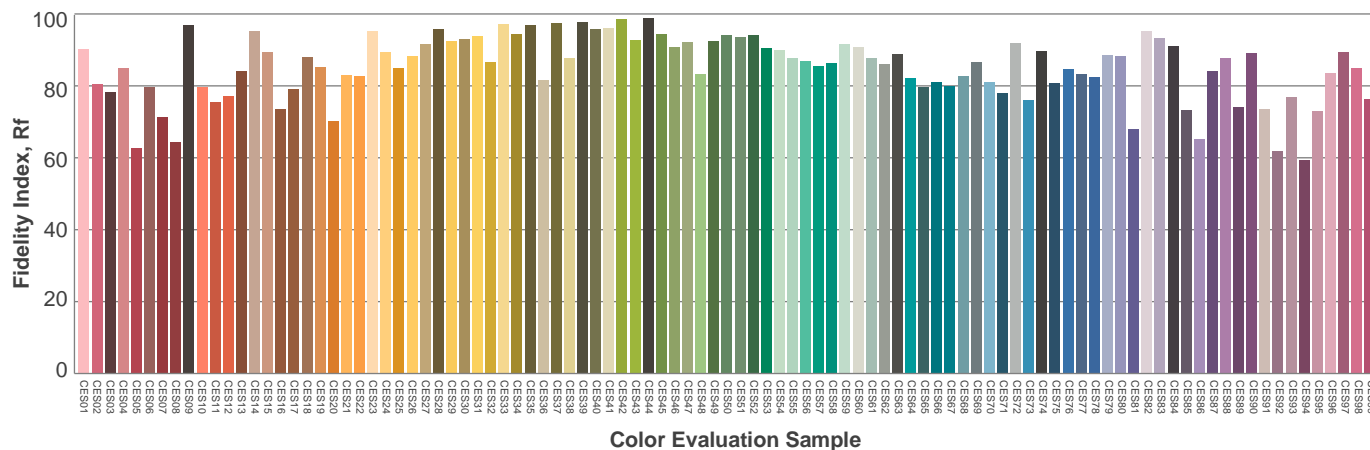
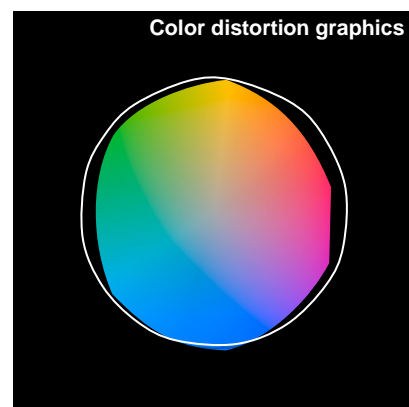
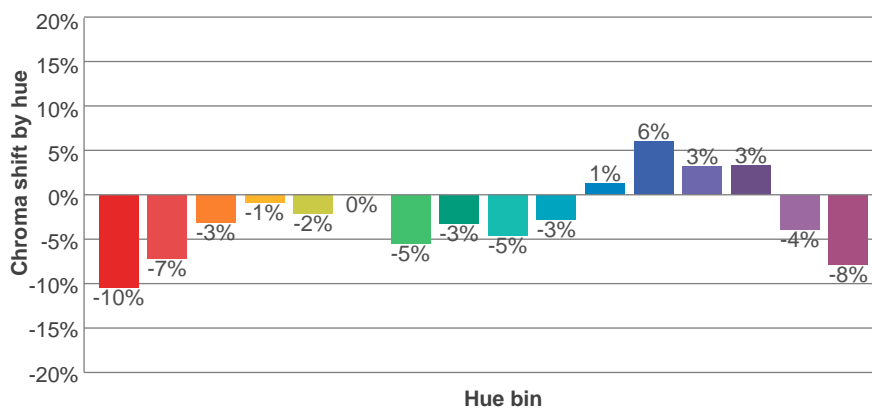
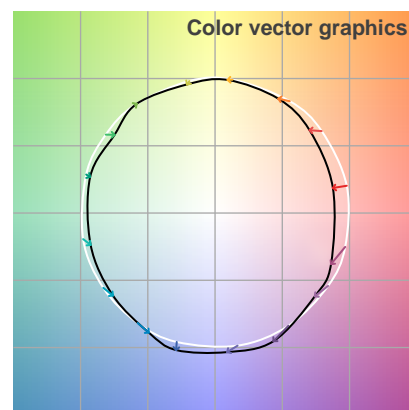
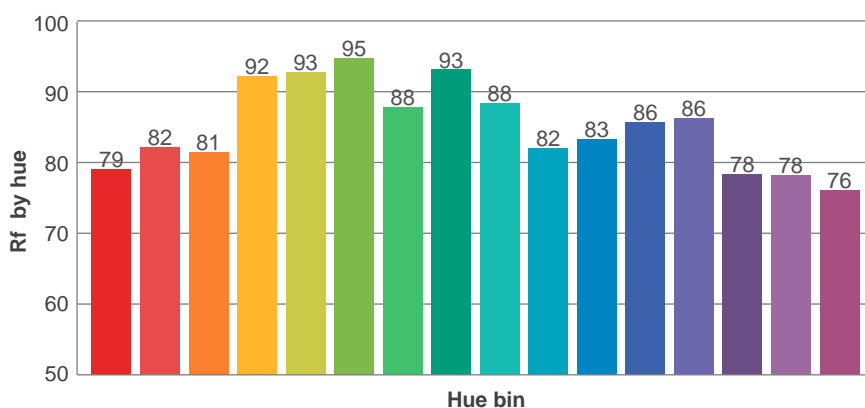
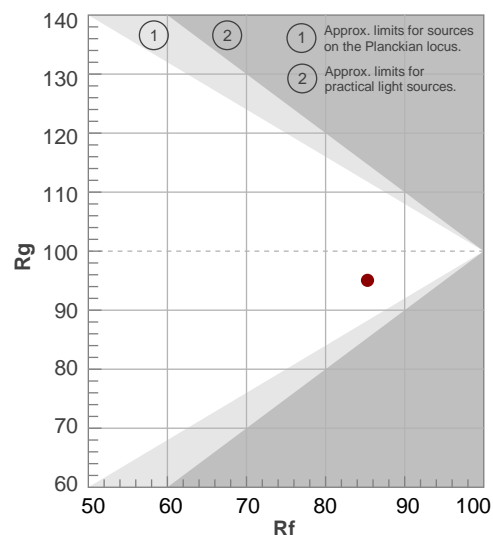
**Rf 85.3**

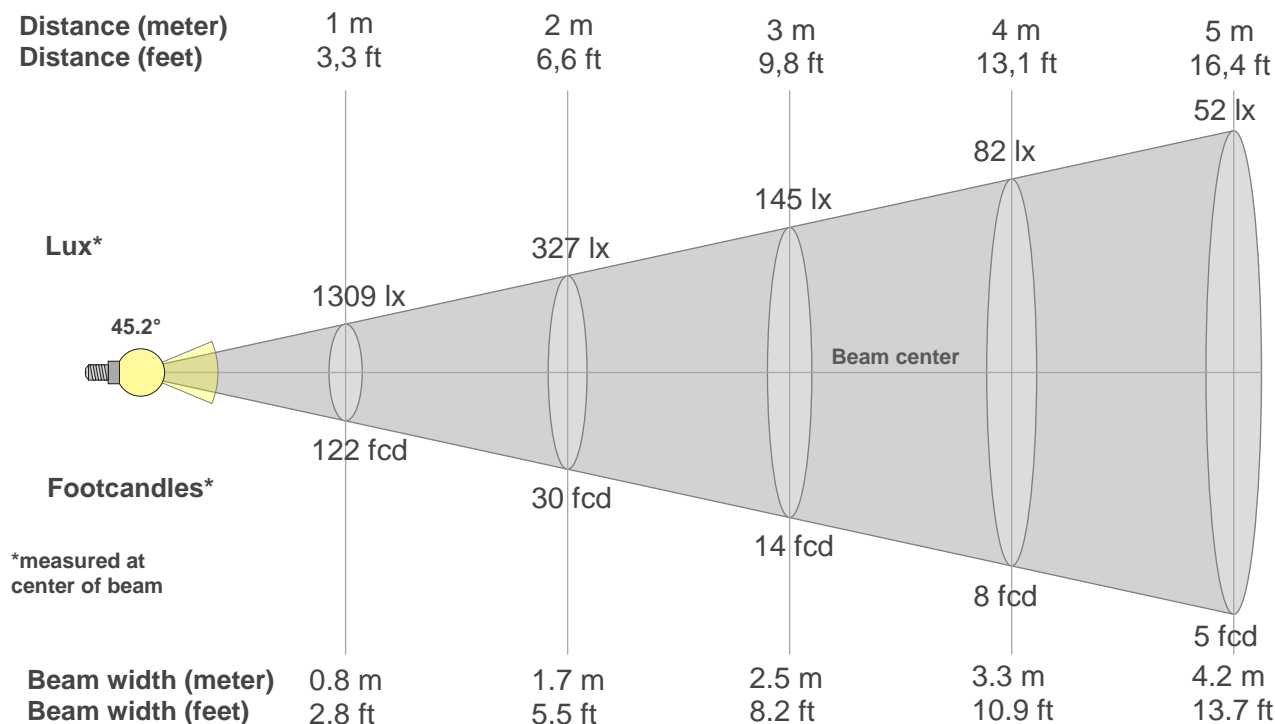
Fidelity index Rf

**Rg 95.1**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	-10%	0%
2	82	-7%	6%
3	81	-3%	8%
4	92	-1%	4%
5	93	-2%	2%
6	95	0%	-2%
7	88	-5%	-4%
8	93	-3%	1%
9	88	-5%	5%
10	82	-3%	9%
11	83	1%	11%
12	86	6%	1%
13	86	3%	-9%
14	78	3%	-16%
15	78	-4%	-12%
16	76	-8%	-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
1309lx	327lx	145lx	82lx	52lx	36lx	27lx	20lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx
121.6fcd	30.4fcd	13.5fcd	7.6fcd	4.9fcd	3.4fcd	2.5fcd	1.9fcd	1.5fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd

### 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°
1309	1304	1299	1251	1202	1139	1066	993	914	835	758	683	606	526	445	367	290	219	161	104
100%	100%	99%	96%	92%	87%	81%	76%	70%	64%	58%	52%	46%	40%	34%	28%	22%	17%	12%	8%

### 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°
1309	1301	1284	1253	1194	1135	1060	983	905	826	746	673	600	522	440	358	283	209	152	106
100%	99%	98%	96%	91%	87%	81%	75%	69%	63%	57%	51%	46%	40%	34%	27%	22%	16%	12%	8%

### 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°
1309	1304	1299	1251	1202	1139	1066	993	914	835	758	683	606	526	445	367	290	219	161	104
100%	100%	99%	96%	92%	87%	81%	76%	70%	64%	58%	52%	46%	40%	34%	28%	22%	17%	12%	8%

### 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°
1309	1301	1284	1253	1194	1135	1060	983	905	826	746	673	600	522	440	358	283	209	152	106
100%	99%	98%	96%	91%	87%	81%	75%	69%	63%	57%	51%	46%	40%	34%	27%	22%	16%	12%	8%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
45.2°	74°	119.2°	94.7%	91.8%