

Light efficiency:

83 Lumen/Watt

Light quality:

CRI: 84.3

Color temperature:

2976 K

Output: 1334 lm

Peak: 905 cd

Power: 16.0 W

PF: 0.96

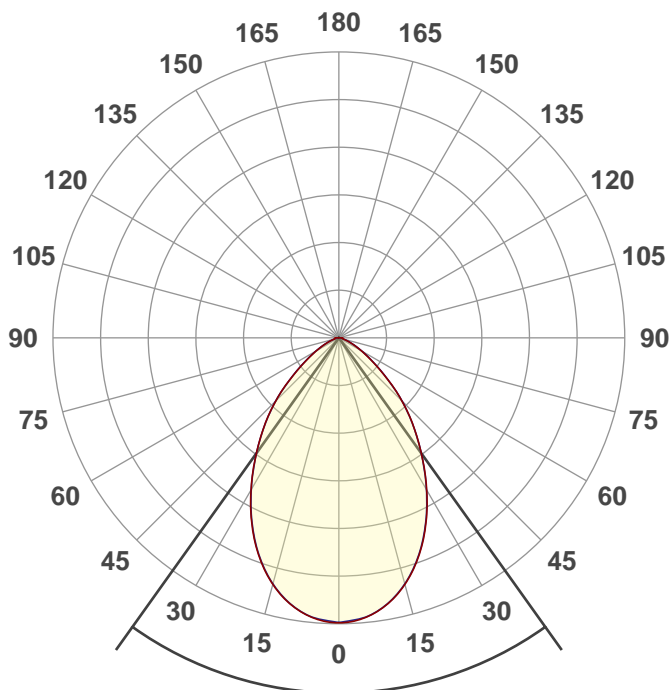


Product name:

**NU3-RD-SW-20LM-30K-80-HE70-120-NC-WH-WH**

Date and time:

**2/6/2019 2:19:42 PM**



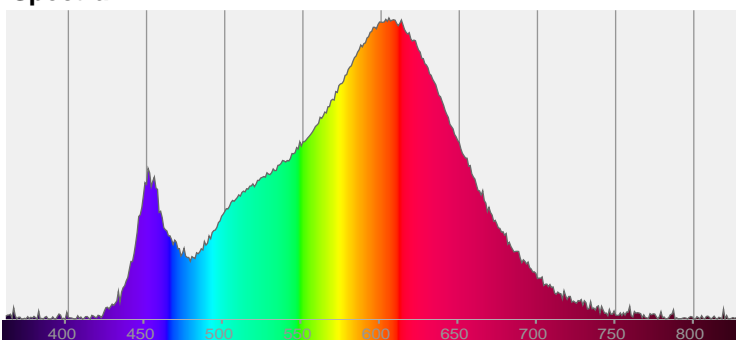
Beam angle

**71.1°**

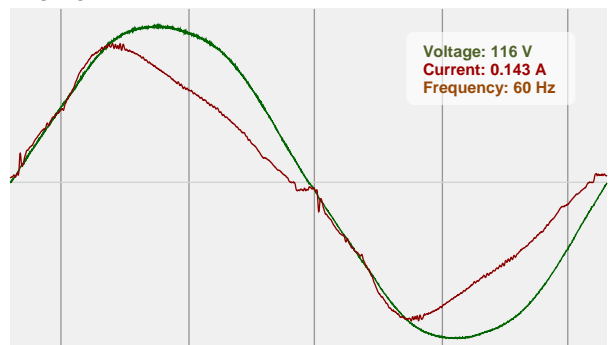


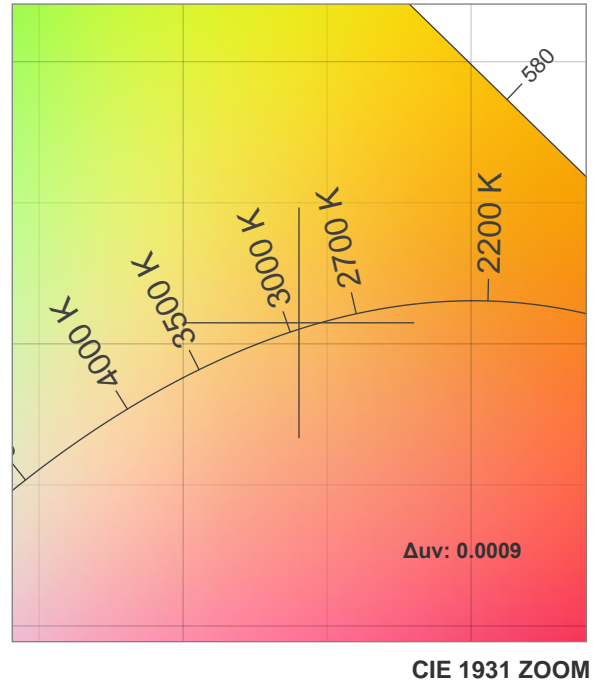
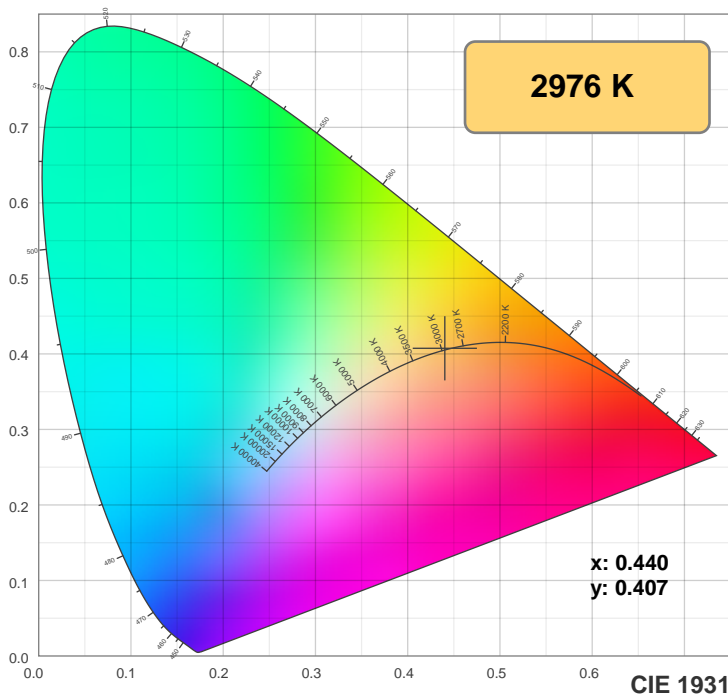
CIE 1931  
x: 0.440  
y: 0.407

Spectra

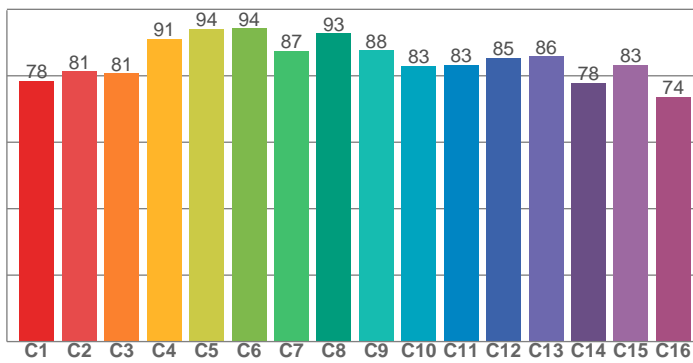


Power

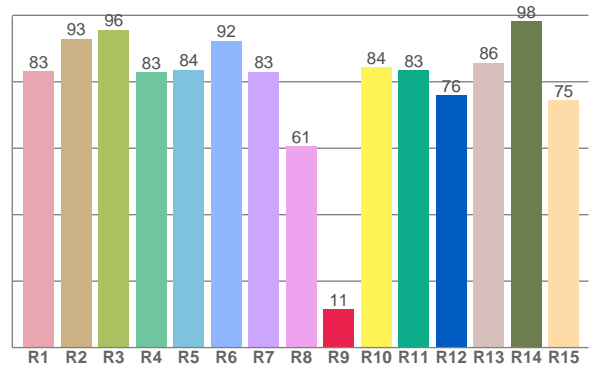




**TM30: 84.9**



**CRI: 84.3 (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
83.2	92.9	95.6	82.9	83.7	92.4	83.0	60.5	11.5	84.3	83.4	75.9	85.7	98.2	74.5

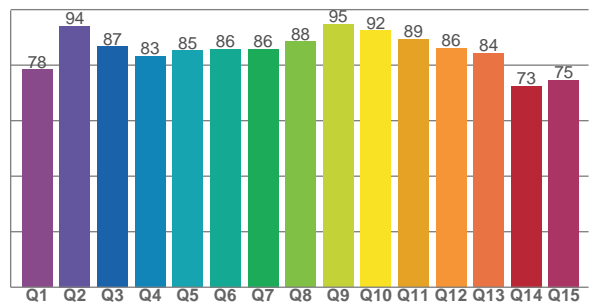
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
78.5	81.4	80.7	91.1	94.1	94.3	87.5	92.8	87.7	83.0	83.2	85.5	85.8	77.9	83.2	73.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78.4	94.1	86.7	83.3	85.2	85.9	85.8	88.5	94.7	92.4	89.3	86.2	84.2	72.5	74.6

**CQS: 84.1**



### 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
2976 K	84.3	11.5	84.9	94.8	84.1	0.440	0.407	0.251	0.349	0.0009

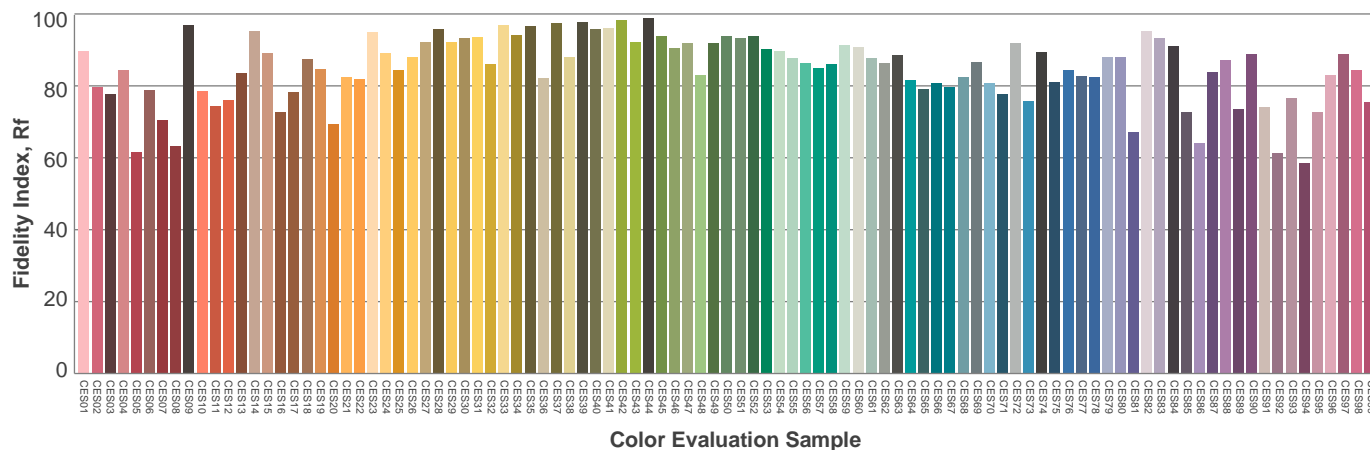
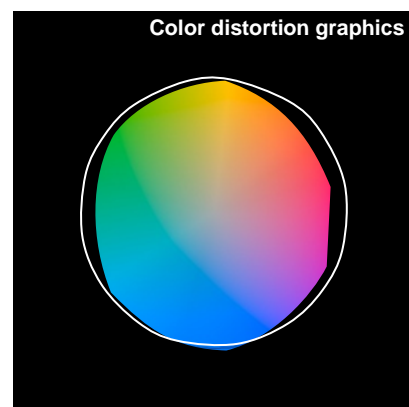
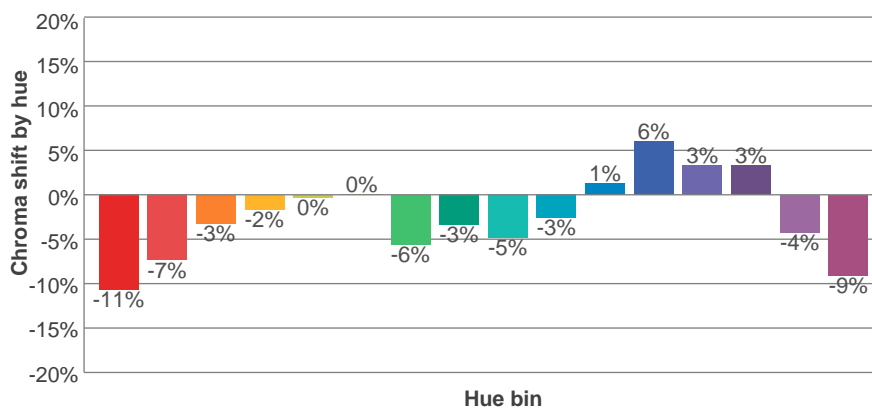
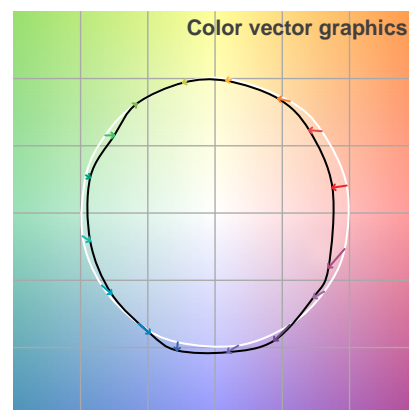
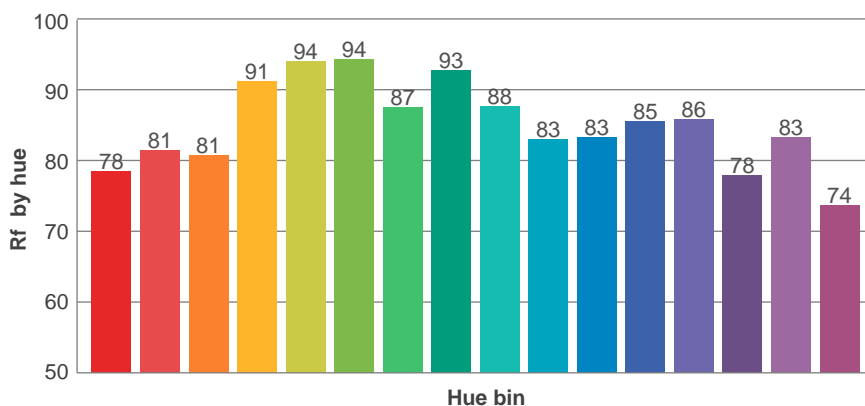
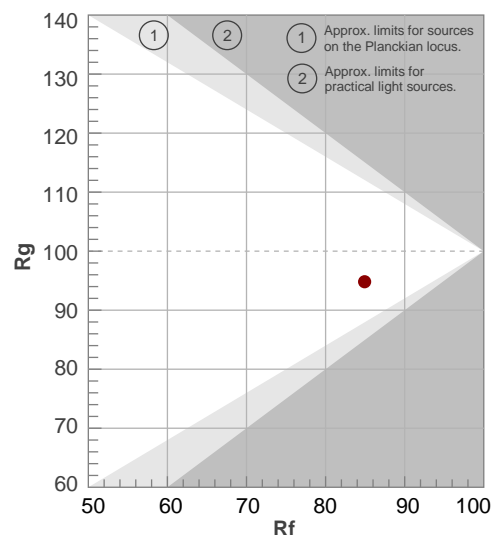
**Rf 84.9**

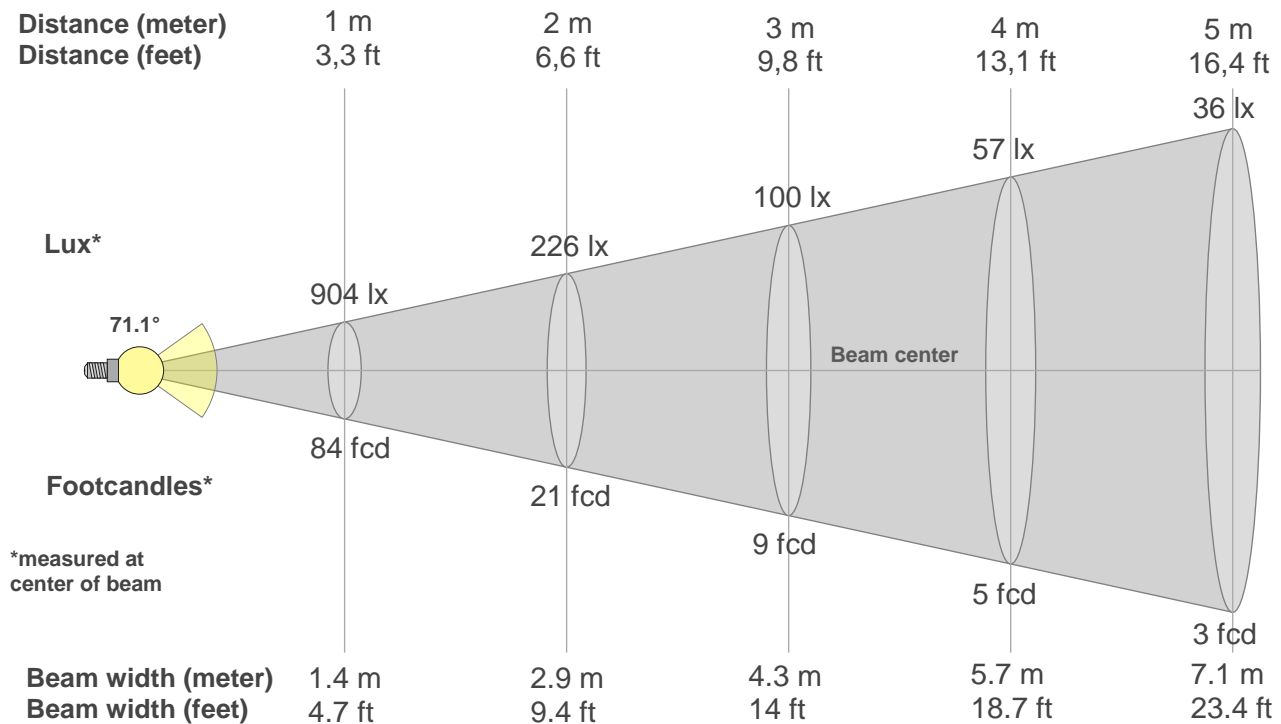
Fidelity index Rf

**Rg 94.8**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	78	-11%	0%
2	81	-7%	6%
3	81	-3%	8%
4	91	-2%	3%
5	94	0%	2%
6	94	0%	-2%
7	87	-6%	-4%
8	93	-3%	1%
9	88	-5%	5%
10	83	-3%	9%
11	83	1%	11%
12	85	6%	1%
13	86	3%	-9%
14	78	3%	-16%
15	83	-4%	-8%
16	74	-9%	-16%





**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
904lx	226lx	100lx	57lx	36lx	25lx	18lx	14lx	11lx	9lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx
84fcd	21fcd	9.3fcd	5.3fcd	3.4fcd	2.3fcd	1.7fcd	1.3fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd

**Intensities in 0° c-plane**

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
904	894	862	811	740	654	560	463	372	285	200	132	85	52	29	15	12	13	4	4
100%	99%	95%	90%	82%	72%	62%	51%	41%	31%	22%	15%	9%	6%	3%	2%	1%	1%	0%	0%

**Intensities in 90° c-plane**

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
904	894	862	810	739	652	558	462	371	284	199	132	84	51	28	15	10	10	3	3
100%	99%	95%	90%	82%	72%	62%	51%	41%	31%	22%	15%	9%	6%	3%	2%	1%	1%	0%	0%

**Intensities in 180° c-plane**

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
904	894	862	811	740	654	560	463	372	285	200	132	85	52	29	15	12	13	4	4
100%	99%	95%	90%	82%	72%	62%	51%	41%	31%	22%	15%	9%	6%	3%	2%	1%	1%	0%	0%

**Intensities in 270° c-plane**

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
904	894	862	810	739	652	558	462	371	284	199	132	84	51	28	15	10	10	3	3
100%	99%	95%	90%	82%	72%	62%	51%	41%	31%	22%	15%	9%	6%	3%	2%	1%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
71.1°	118.6°	143.7°	92.8%	76.5%