

Light efficiency:

**105 Lumen/Watt**

Light quality:

**CRI: 85.0**

Color temperature:

**3028 K**

**Output: 1087 lm**

**Peak: 601 cd**

**Power: 10.3 W**

**PF: 0.95**

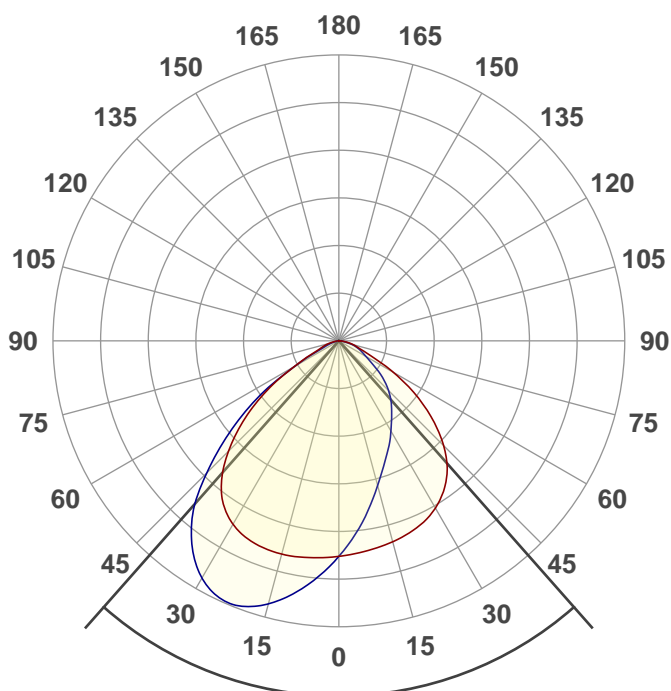


Product name:

**NU4-QW-SW-13LM-30K-80-WW-120-DIM10-NC-WH-WH**

Date and time:

**6/6/2019 4:02:06 PM**



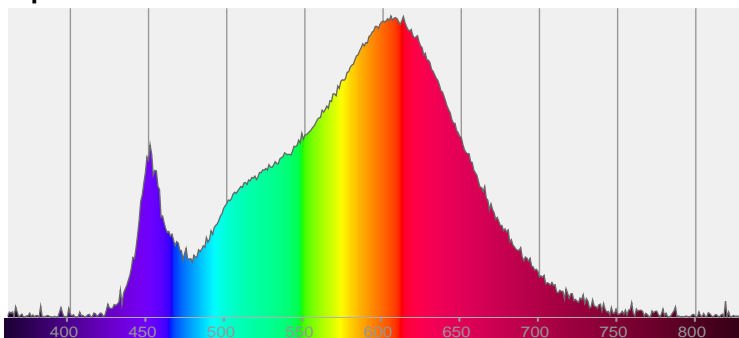
Beam angle

**82.9°**

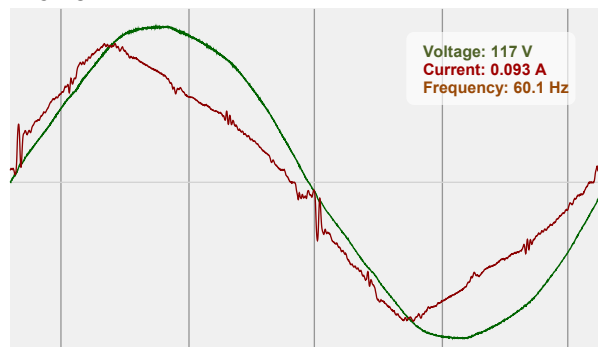


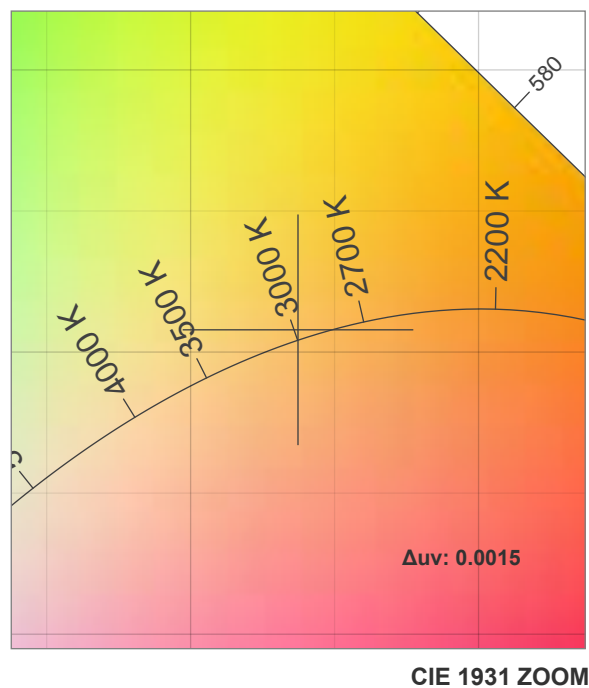
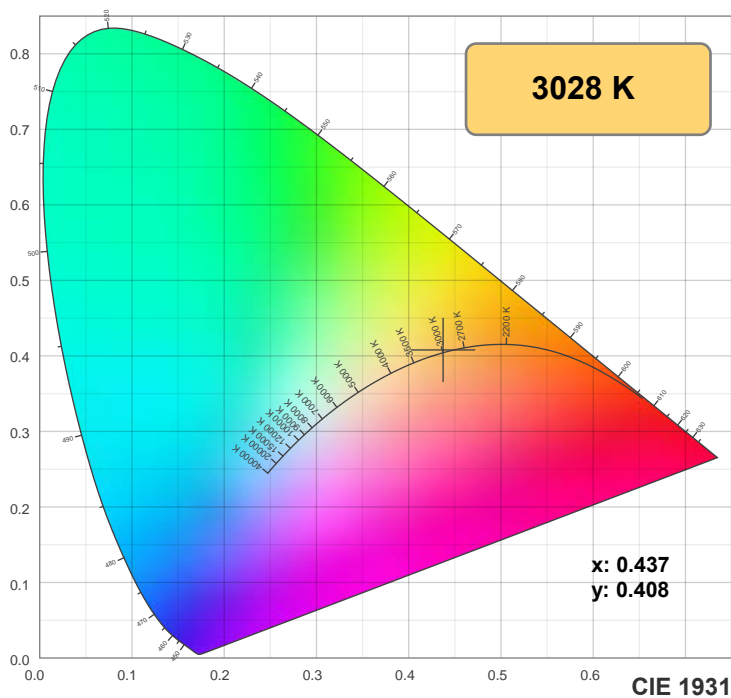
CIE 1931  
x: 0.437  
y: 0.408

Spectra

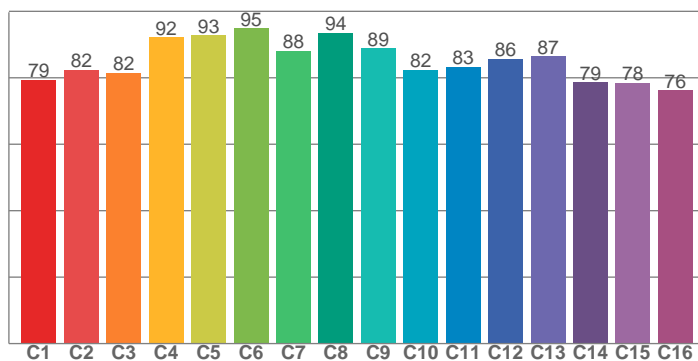


Power

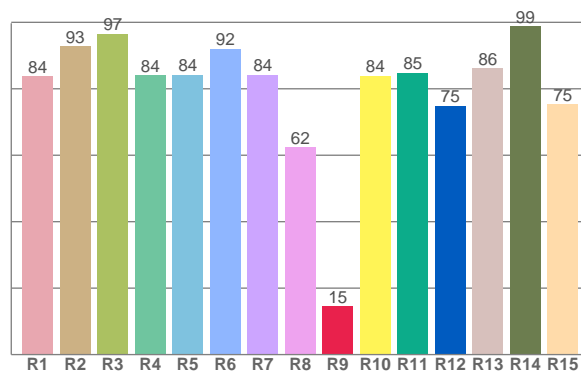




**TM30: 85.5**



**CRI: 85.0 (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
83.8	92.8	96.6	84.1	84.2	92.1	84.2	62.4	14.6	83.9	84.8	74.9	86.1	98.7	75.3

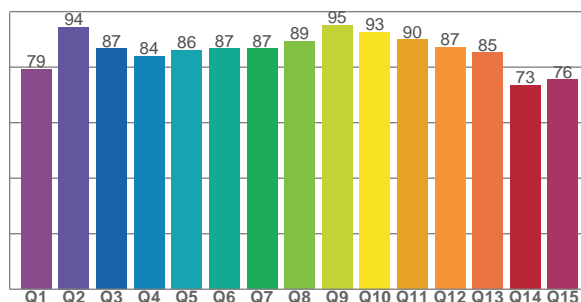
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.4	82.4	81.5	92.2	92.7	94.8	88.1	93.6	88.8	82.5	83.3	85.6	86.5	78.6	78.5	76.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79.2	94.4	86.7	84.0	86.1	86.7	86.7	89.3	95.2	92.7	90.0	87.2	85.2	73.5	75.5

**CQS: 84.8**



## 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	85.0	14.6	85.5	95.3	84.8	0.437	0.408	0.249	0.349	0.0015

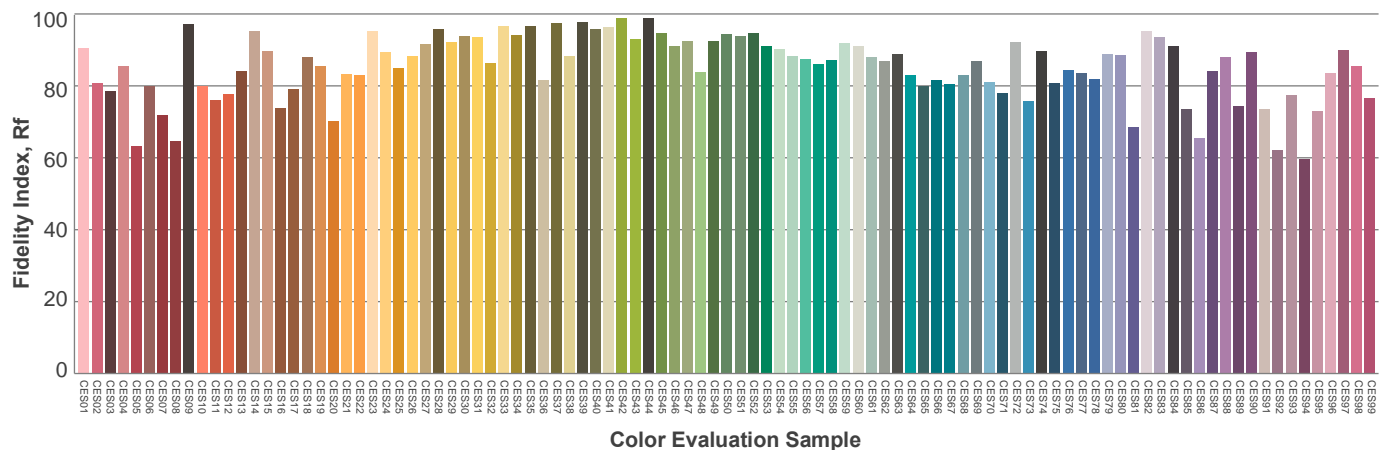
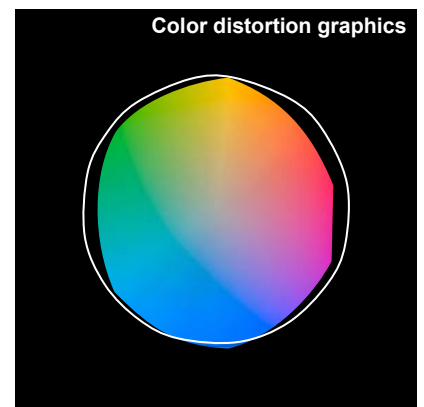
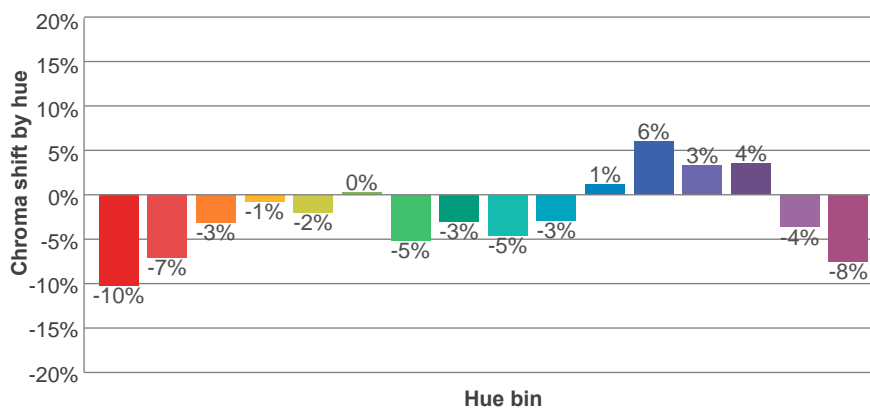
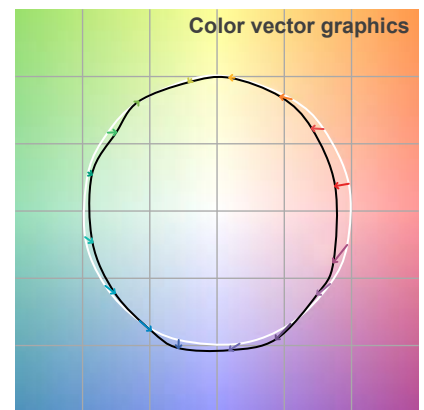
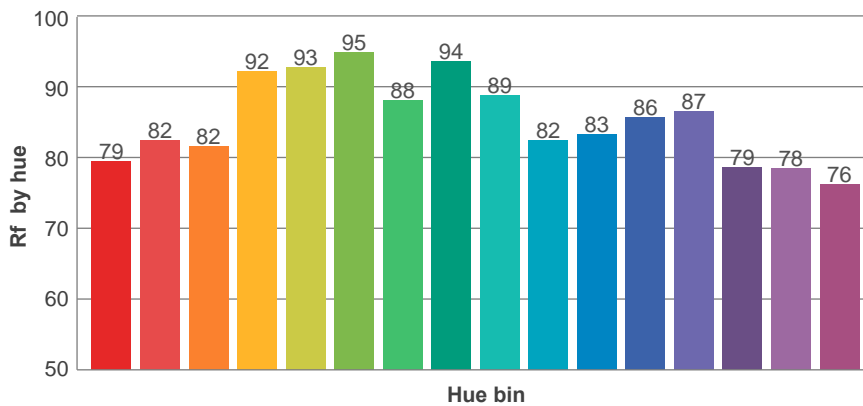
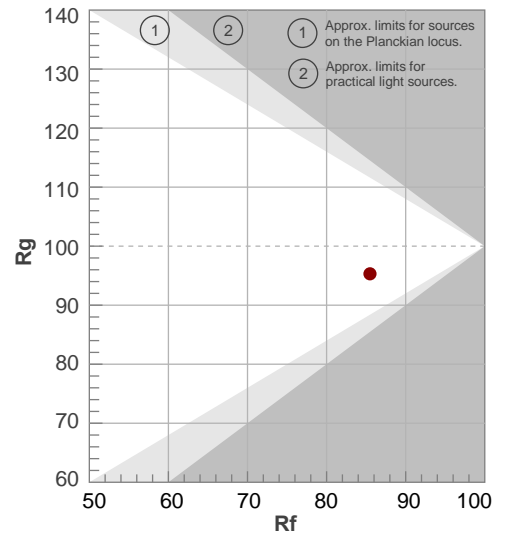
**Rf 85.5**

Fidelity index Rf

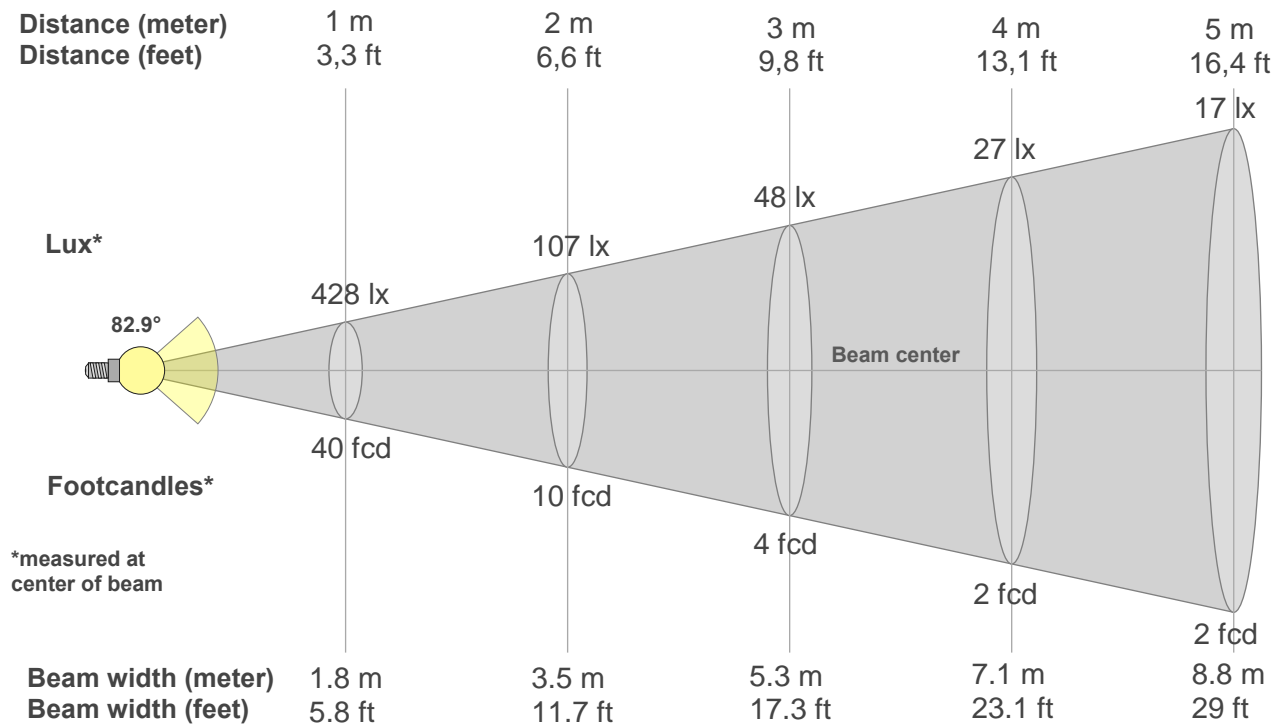
**Rg 95.3**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	-10%	0%
2	82	-7%	5%
3	82	-3%	8%
4	92	-1%	4%
5	93	-2%	2%
6	95	0%	-1%
7	88	-5%	-4%
8	94	-3%	1%
9	89	-5%	5%
10	82	-3%	8%
11	83	1%	11%
12	86	6%	1%
13	87	3%	-8%
14	79	4%	-15%
15	78	-4%	-12%
16	76	-8%	-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
428lx	107lx	48lx	27lx	17lx	12lx	9lx	7lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx
39.8fcd	9.9fcd	4.4fcd	2.5fcd	1.6fcd	1.1fcd	0.8fcd	0.6fcd	0.5fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd

### 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°
428	423	418	413	406	397	383	363	334	294	243	186	125	70	43	30	18	7	0	0
100%	99%	98%	96%	95%	93%	89%	85%	78%	69%	57%	43%	29%	16%	10%	7%	4%	2%	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°
428	384	340	298	263	234	207	183	162	139	113	84	63	50	38	25	13	5	0	0
100%	90%	79%	70%	61%	55%	48%	43%	38%	33%	26%	20%	15%	12%	9%	6%	3%	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°
428	432	436	438	437	432	419	397	361	309	247	178	107	55	34	22	10	3	1	0
100%	101%	102%	102%	102%	101%	98%	93%	84%	72%	58%	42%	25%	13%	8%	5%	2%	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°
428	470	508	540	559	561	542	505	450	371	284	196	104	44	23	12	5	1	1	0
100%	110%	119%	126%	131%	131%	127%	118%	105%	87%	66%	46%	24%	10%	5%	3%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
82.9°	132.8°	157.4°	90.2%	64.6%