

Light efficiency:

**66 Lumen/Watt**

Light quality:

**CRI: 97.3**

Color temperature:

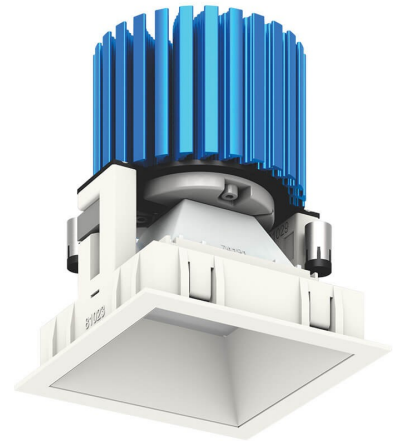
**3059 K**

**Output: 1684 lm**

**Peak: 1057 cd**

**Power: 25.7 W**

**PF: 0.98**

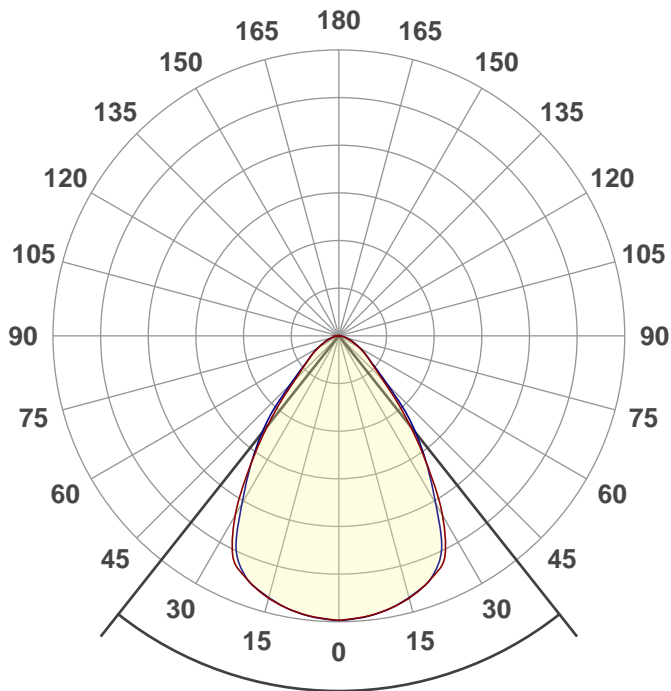


Product name:

**NU3-QD-SUN-20LM-30K-97-WH80-120-DIM10-RET-WH-WH**

Date and time:

**12/19/2018 3:50:14 PM**



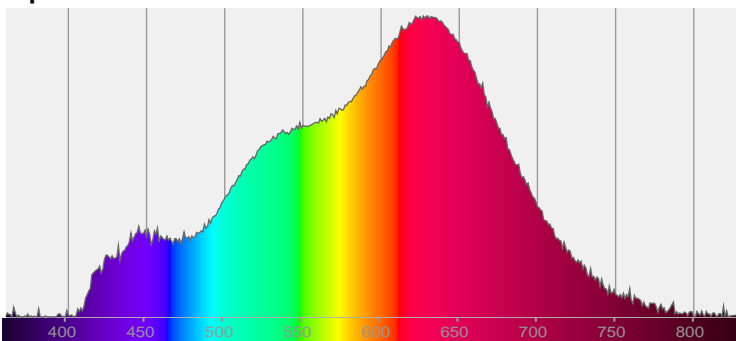
Beam angle

**76.8°**

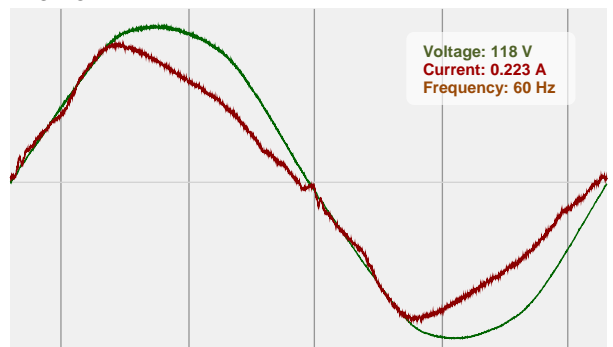


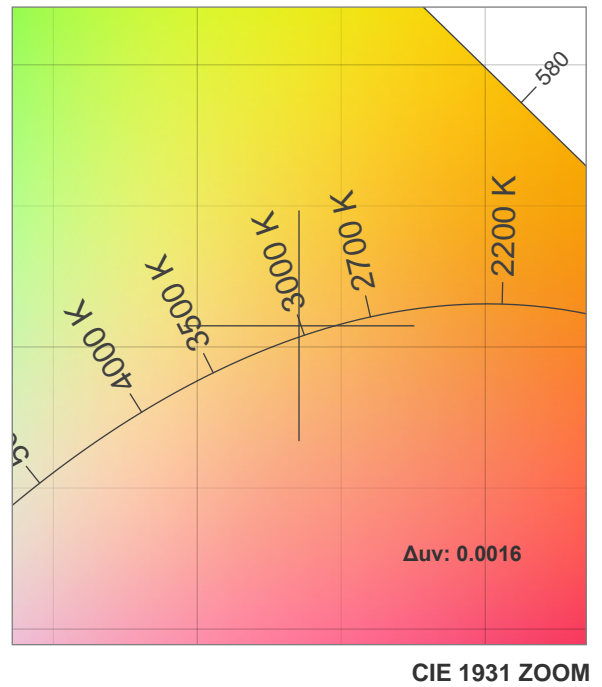
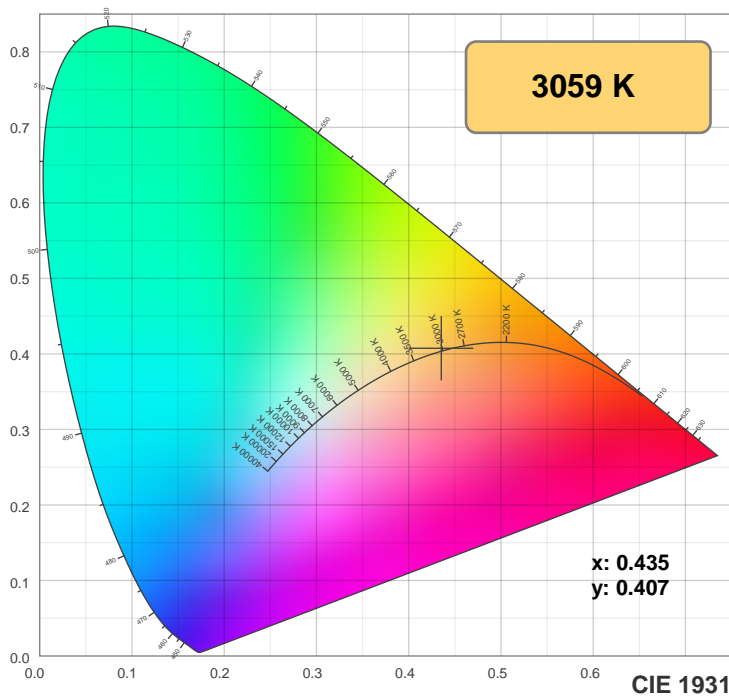
CIE 1931  
x: 0.435  
y: 0.407

Spectra

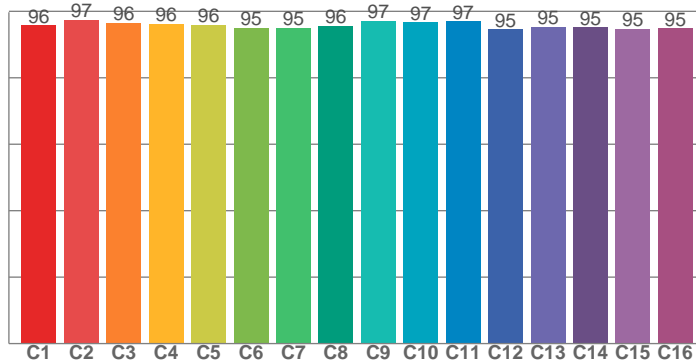


Power

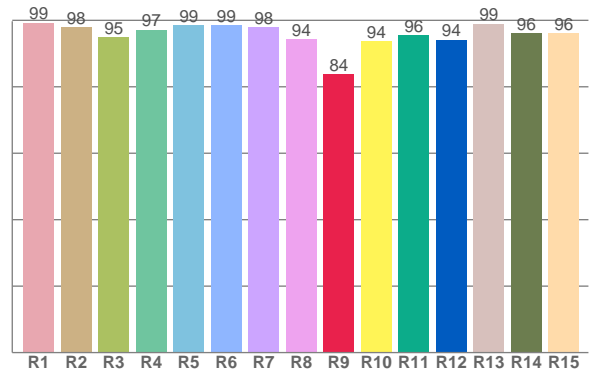




**TM30: 96.0**



**CRI: 97.3 (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
99.3	97.9	95.0	97.2	98.5	98.5	97.8	94.3	83.8	93.7	95.5	94.1	99.0	96.2	96.1

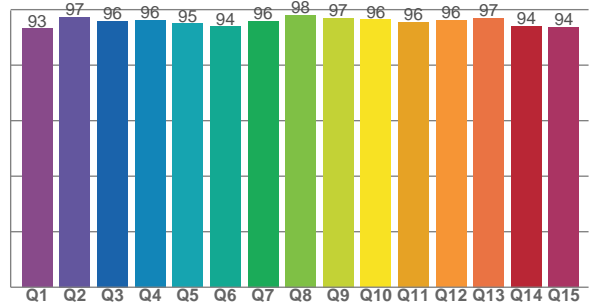
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95.7	97.4	96.5	96.2	95.9	94.9	95.0	95.7	97.1	96.6	96.9	94.6	95.4	95.2	94.8	94.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93.1	97.3	96.0	96.2	95.0	93.9	95.8	96.1	97.0	96.5	95.5	96.1	97.0	94.1	93.6

**CQS: 95.3**



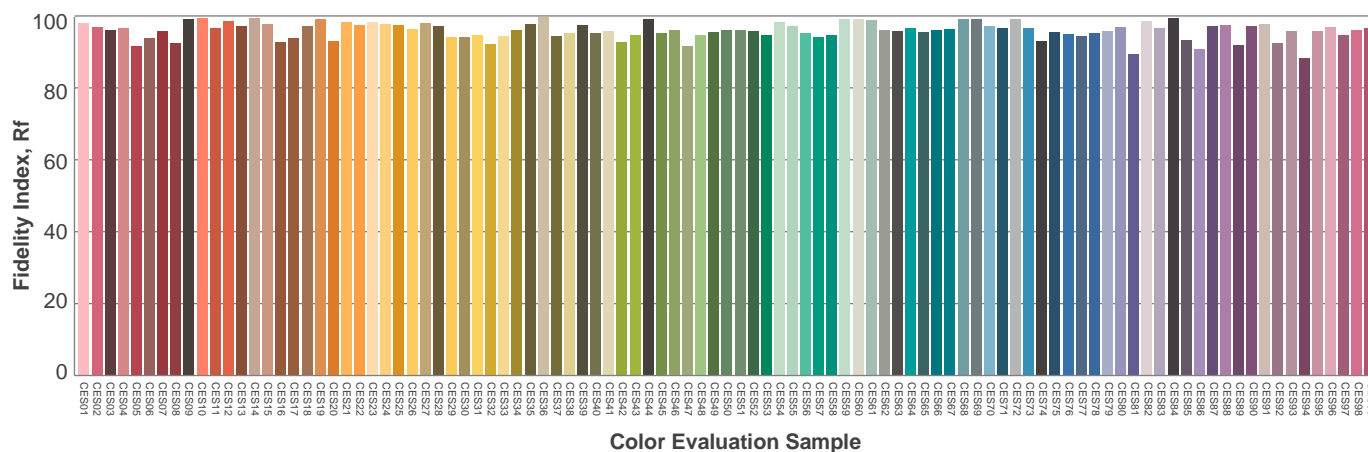
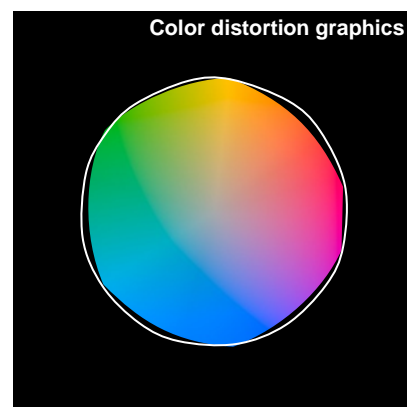
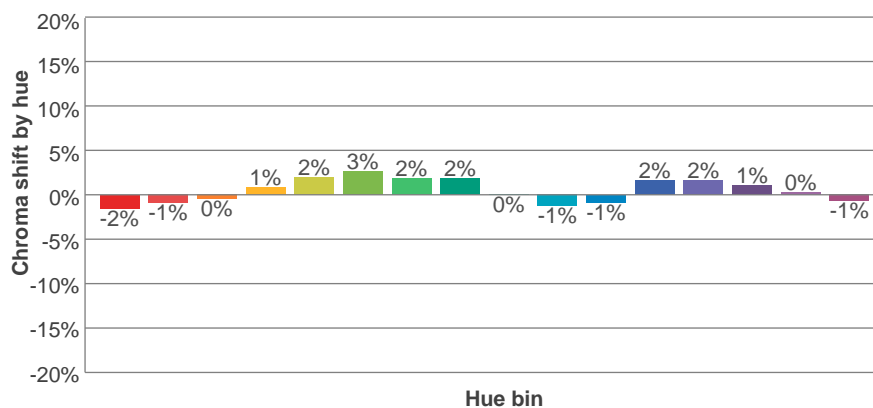
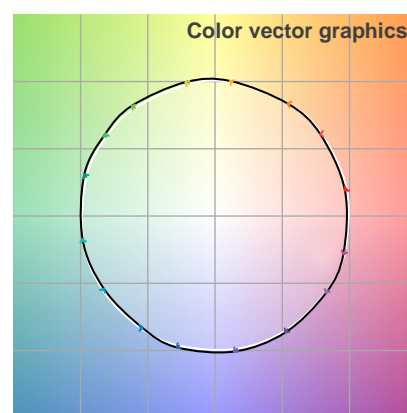
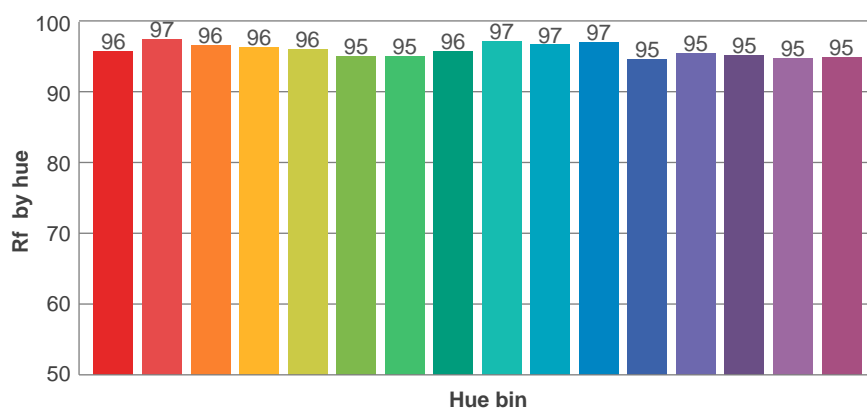
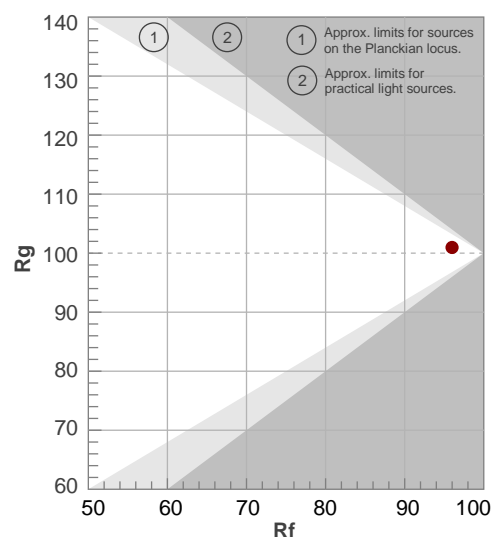
### Color parameters

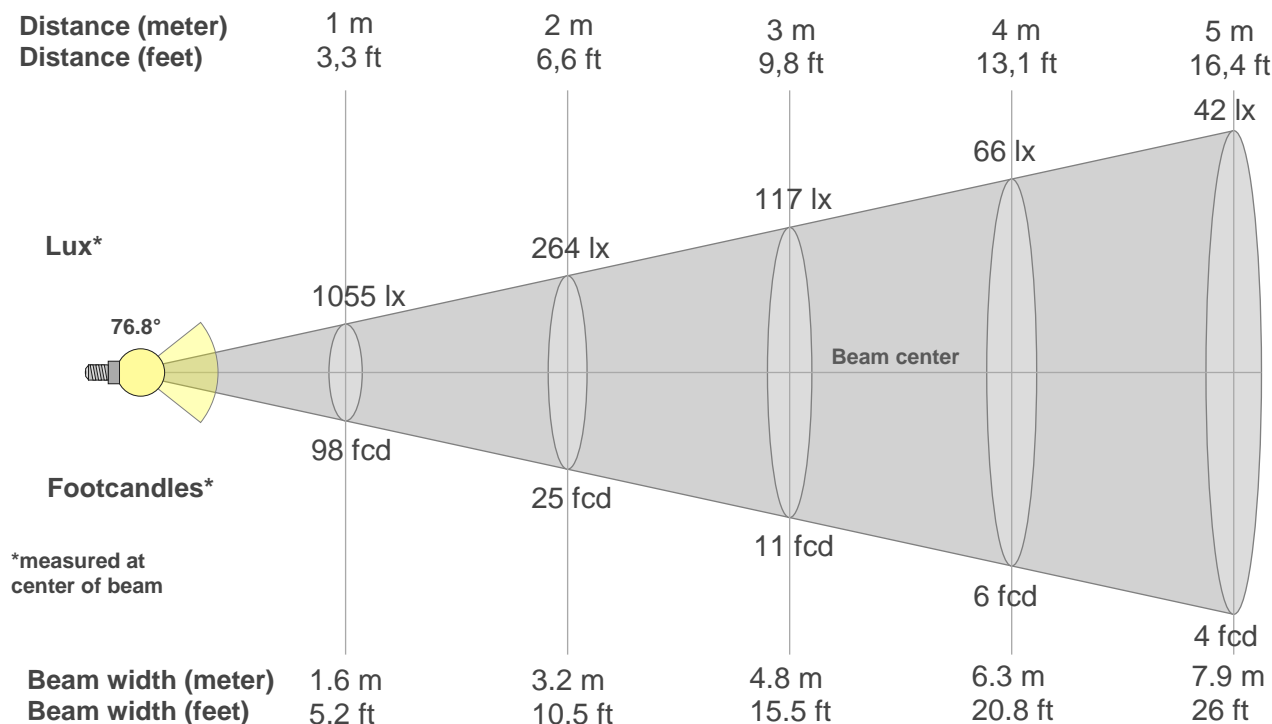
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3059 K	97.3	83.8	96.0	101.0	95.3	0.435	0.407	0.248	0.348	0.0016

### Fidelity index Rf

## Gammut index Rg

		Graphic shifts (%)	
Hue Bin	$R_f$	Chroma	Hue
1	96	-2%	-1%
2	97	-1%	0%
3	96	0%	1%
4	96	1%	2%
5	96	2%	2%
6	95	3%	1%
7	95	2%	-2%
8	96	2%	-2%
9	97	0%	-2%
10	97	-1%	-1%
11	97	-1%	1%
12	95	2%	-2%
13	95	2%	-2%
14	95	1%	-3%
15	95	0%	-3%
16	95	-1%	-3%





**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
1055lx	264lx	117lx	66lx	42lx	29lx	22lx	16lx	13lx	11lx	9lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx	3lx
98fcd	24.5fcd	10.9fcd	6.1fcd	3.9fcd	2.7fcd	2fcd	1.5fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	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°
1055	1049	1034	1009	972	917	767	558	375	232	161	121	88	61	41	26	14	7	3	3
100%	99%	98%	96%	92%	87%	73%	53%	36%	22%	15%	11%	8%	6%	4%	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°
1055	1050	1033	1006	970	891	722	561	414	260	167	124	91	64	43	27	16	9	4	4
100%	99%	98%	95%	92%	84%	68%	53%	39%	25%	16%	12%	9%	6%	4%	3%	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°
1055	1049	1034	1009	972	917	767	558	375	232	161	121	88	61	41	26	14	7	3	3
100%	99%	98%	96%	92%	87%	73%	53%	36%	22%	15%	11%	8%	6%	4%	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°
1055	1050	1033	1006	970	891	722	561	414	260	167	124	91	64	43	27	16	9	4	4
100%	99%	98%	95%	92%	84%	68%	53%	39%	25%	16%	12%	9%	6%	4%	3%	1%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
76.8°	116.5°	150.1°	93.1%	80.2%