

Light efficiency:

**68 Lumen/Watt**

Light quality:

**CRI: 98.0**

Color temperature:

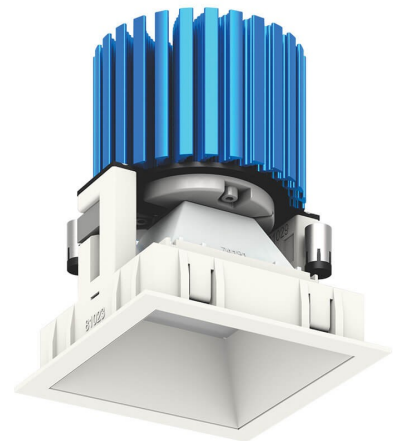
**3032 K**

**Output: 868 lm**

**Peak: 750 cd**

**Power: 12.7 W**

**PF: 0.96**

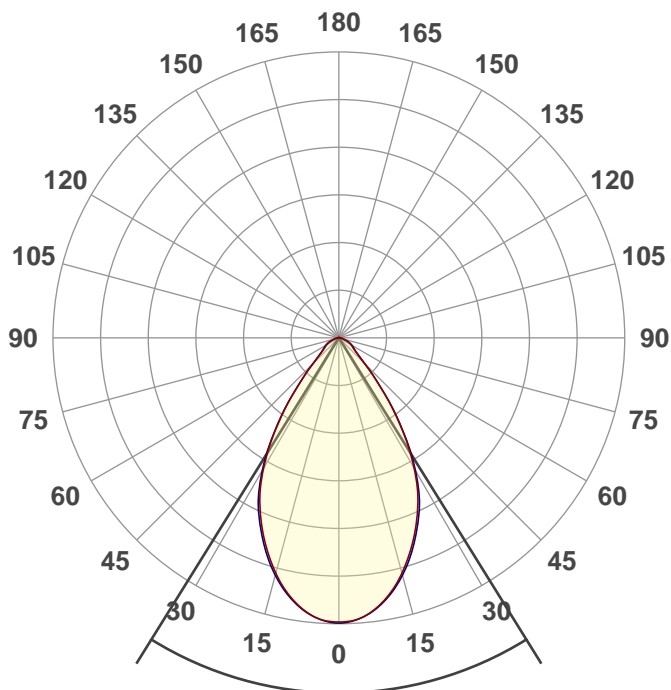


Product name:

**NU3-QD-SUN-10LM-30K-97-HE60-120-DIM10-RET-WH-WH**

Date and time:

**12/21/2018 8:28:05 AM**



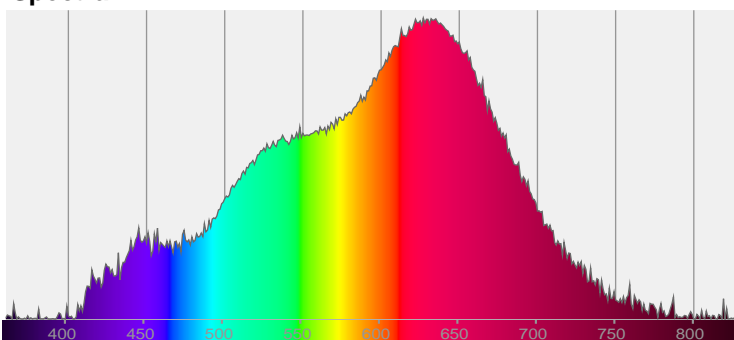
Beam angle

**63.7°**

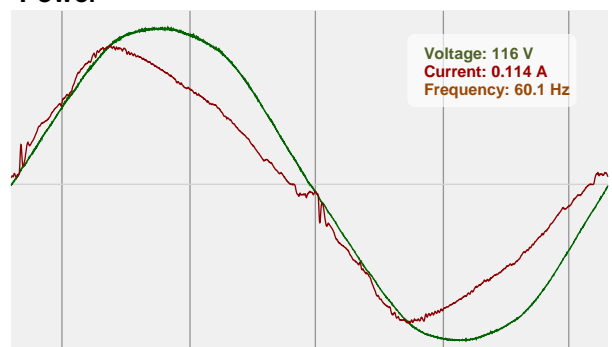


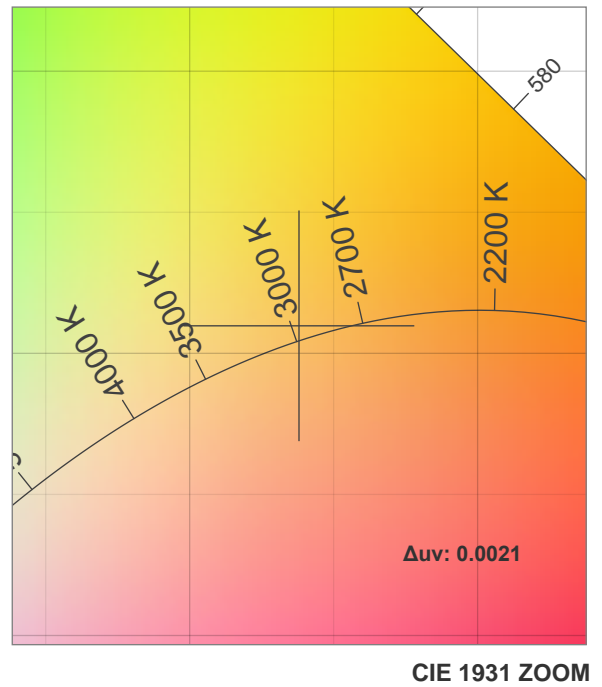
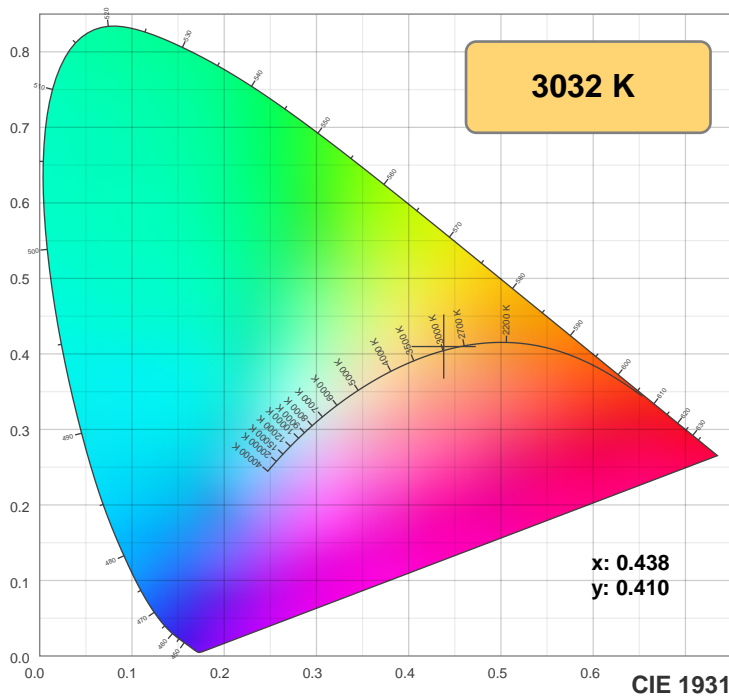
CIE 1931  
x: 0.438  
y: 0.410

Spectra

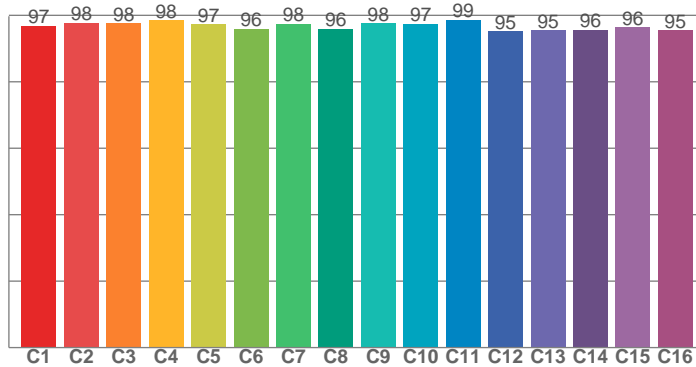


Power

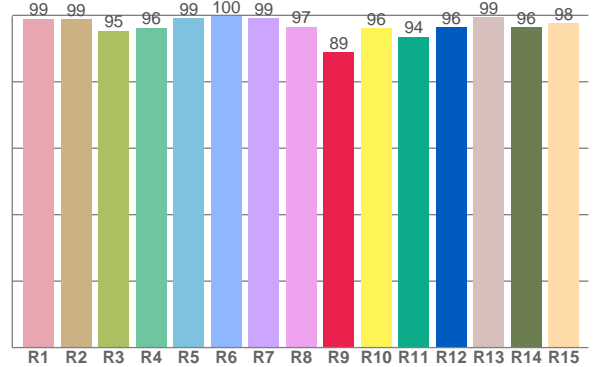




**TM30: 97.0**



**CRI: 98.0 (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
99.0	98.9	95.4	96.3	99.1	99.6	99.1	96.6	88.8	96.1	93.6	96.4	99.3	96.4	97.7

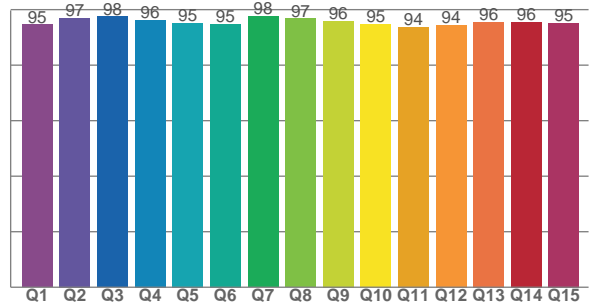
**TM30 C values, 16 binned values out of total of 99 C values**

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96.9	97.8	97.5	98.4	97.3	95.9	97.5	95.9	97.6	97.4	98.6	95.2	95.4	95.7	96.3	95.5

**CQS Q values**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94.6	97.0	97.5	96.3	95.2	94.8	97.6	96.7	95.9	94.8	93.8	94.4	95.6	95.6	95.3

**CQS: 95.5**



## 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	$\Delta uv$
3032 K	98.0	88.8	97.0	100.6	95.5	0.438	0.410	0.249	0.349	0.0021

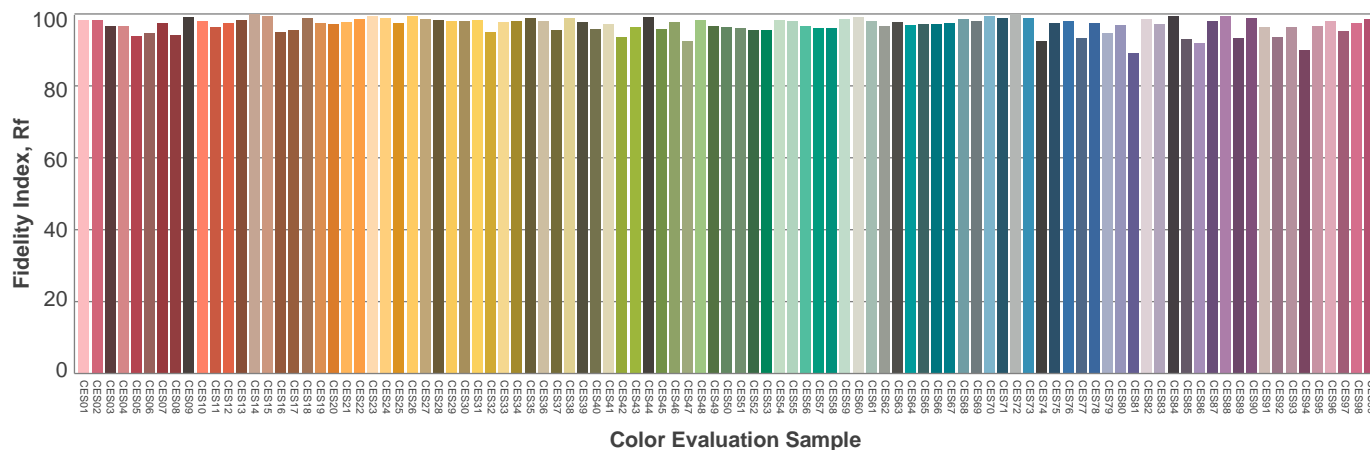
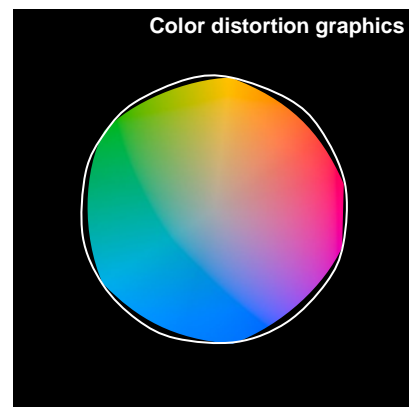
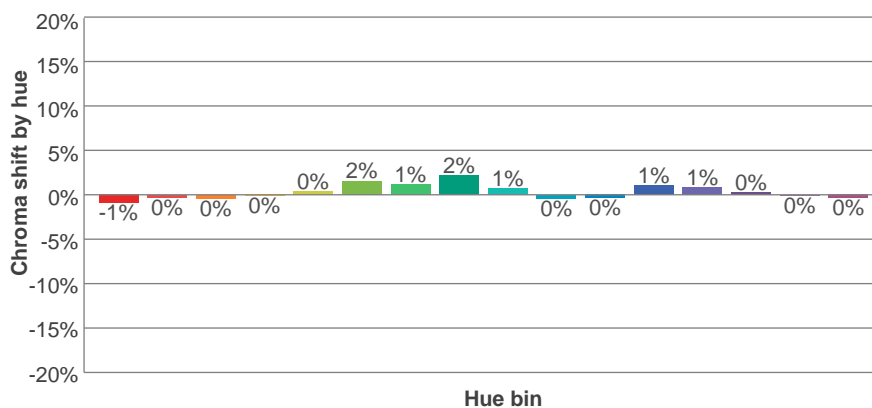
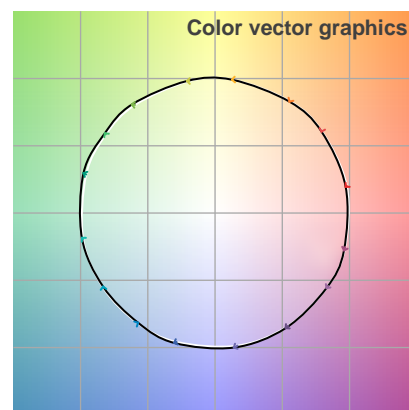
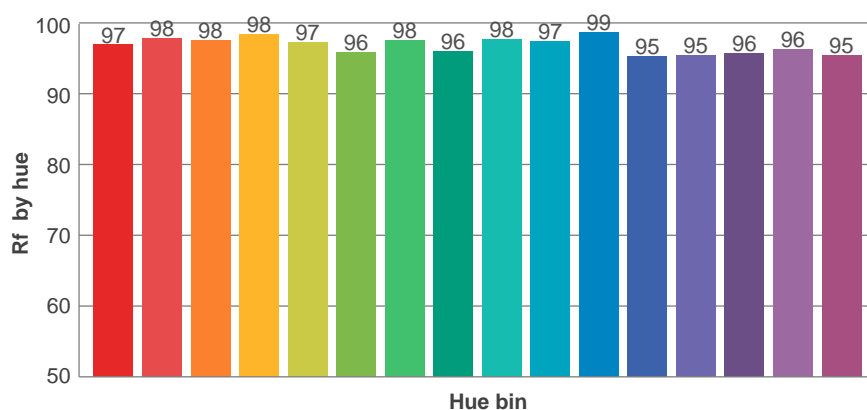
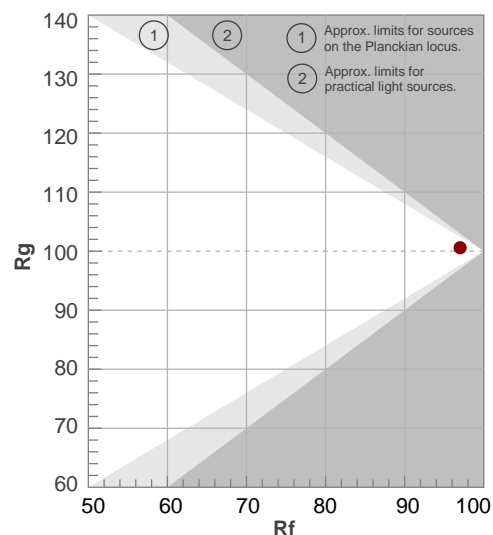
**Rf 97.0**

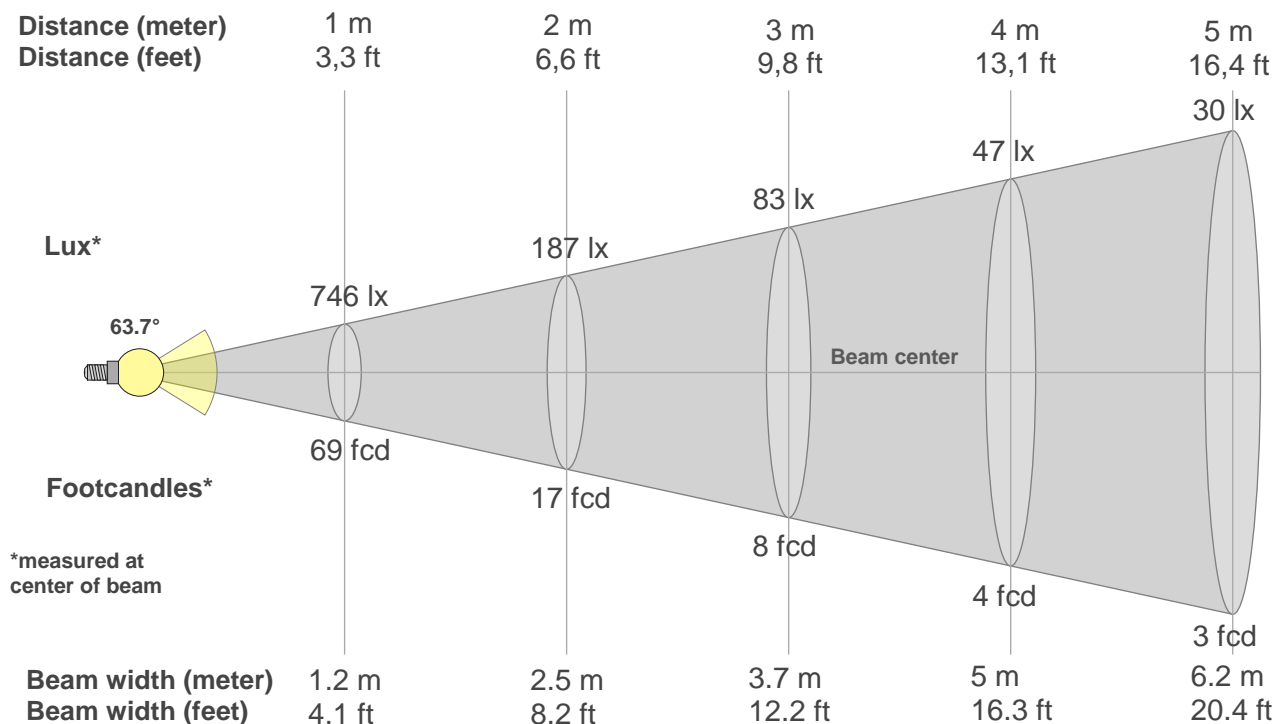
Fidelity index Rf

**Rg 100.6**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	97	-1%	-1%
2	98	0%	0%
3	98	0%	0%
4	98	0%	0%
5	97	0%	2%
6	96	2%	2%
7	98	1%	0%
8	96	2%	-1%
9	98	1%	-1%
10	97	0%	-1%
11	99	0%	0%
12	95	1%	-2%
13	95	1%	-3%
14	96	0%	-3%
15	96	0%	-2%
16	95	0%	-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
746lx	187lx	83lx	47lx	30lx	21lx	15lx	12lx	9lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx	2lx	2lx
69.3fcd	17.3fcd	7.7fcd	4.3fcd	2.8fcd	1.9fcd	1.4fcd	1.1fcd	0.9fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd

### 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°
746	747	741	730	719	699	679	655	628	601	570	540	508	474	439	396	353	309	263	219
100%	100%	99%	98%	96%	94%	91%	88%	84%	80%	76%	72%	68%	63%	59%	53%	47%	41%	35%	29%

### 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°
746	750	741	732	719	701	683	659	635	607	578	548	516	484	445	402	359	312	265	222
100%	100%	99%	98%	96%	94%	92%	88%	85%	81%	77%	73%	69%	65%	60%	54%	48%	42%	36%	30%

### 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°
746	747	741	730	719	699	679	655	628	601	570	540	508	474	439	396	353	309	263	219
100%	100%	99%	98%	96%	94%	91%	88%	84%	80%	76%	72%	68%	63%	59%	53%	47%	41%	35%	29%

### 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°
746	750	741	732	719	701	683	659	635	607	578	548	516	484	445	402	359	312	265	222
100%	100%	99%	98%	96%	94%	92%	88%	85%	81%	77%	73%	69%	65%	60%	54%	48%	42%	36%	30%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
63.7°	99.9°	142.4°	94.1%	84.0%