

Light efficiency:

**64 Lumen/Watt**

Light quality:

**CRI: 98.0**

Color temperature:

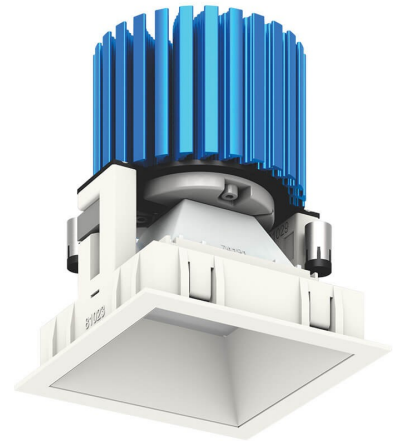
**3035 K**

**Output: 819 lm**

**Peak: 618 cd**

**Power: 12.8 W**

**PF: 0.96**

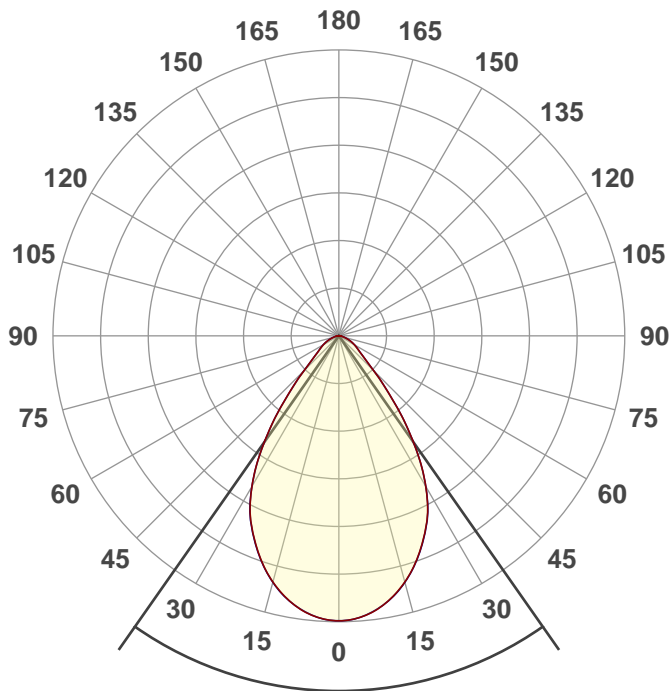


Product name:

**NU3-QD-SUN-10LM-30K-97-HE70-120-DIM10-RET-WH-WH**

Date and time:

**12/21/2018 8:55:11 AM**



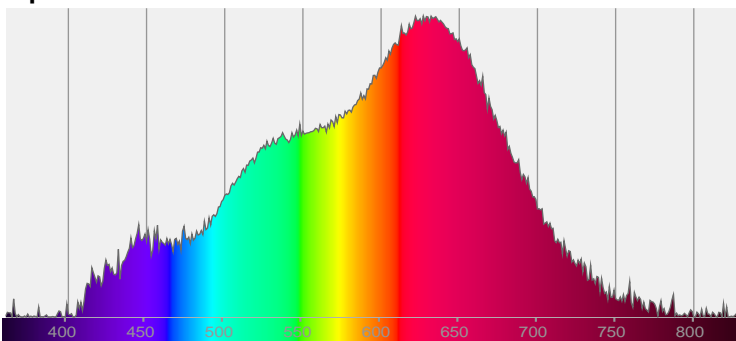
Beam angle

**70.1°**

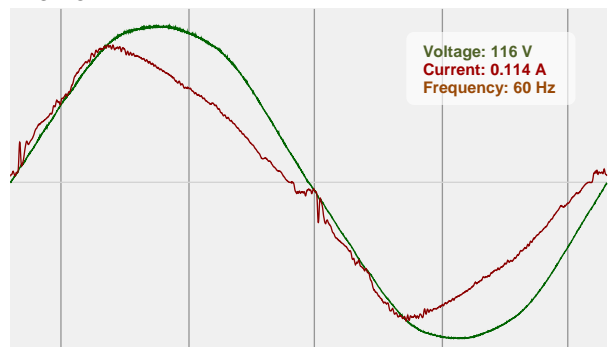


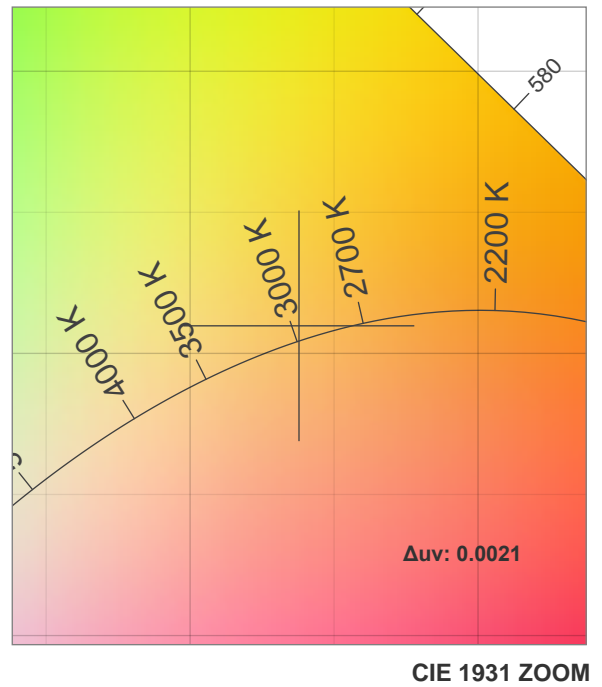
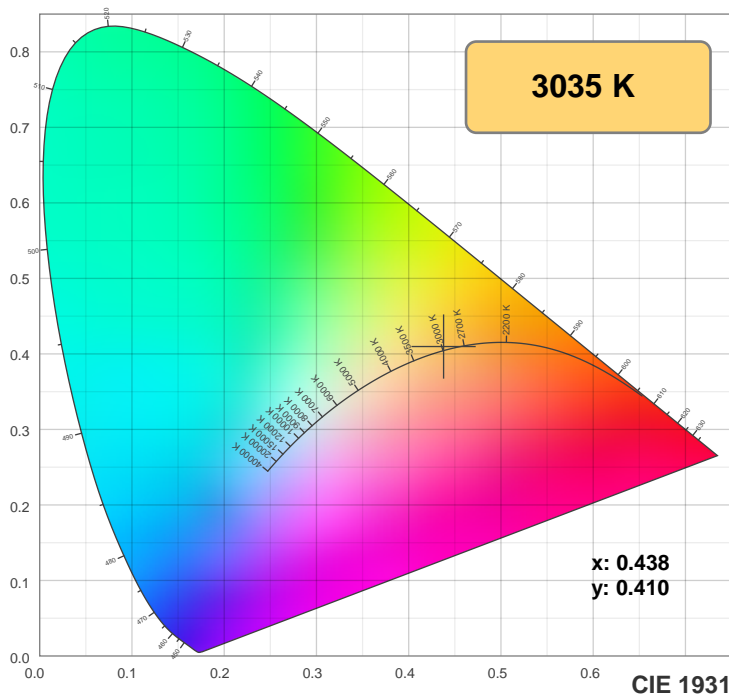
CIE 1931  
x: 0.438  
y: 0.410

Spectra

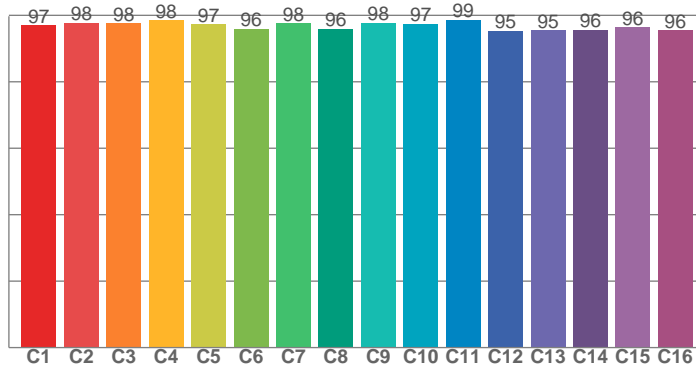


Power

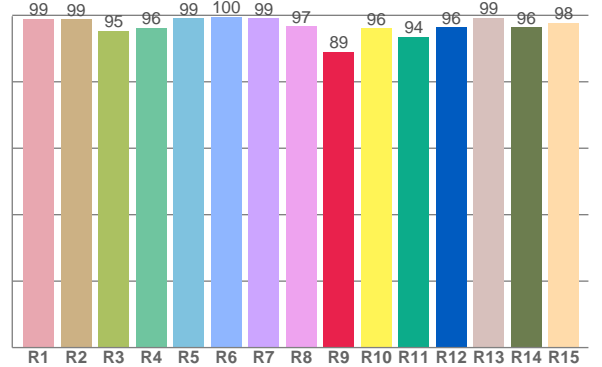




**TM30: 97.1**



**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
98.9	98.9	95.4	96.3	99.0	99.6	99.1	96.7	89.1	96.2	93.5	96.5	99.3	96.4	97.8

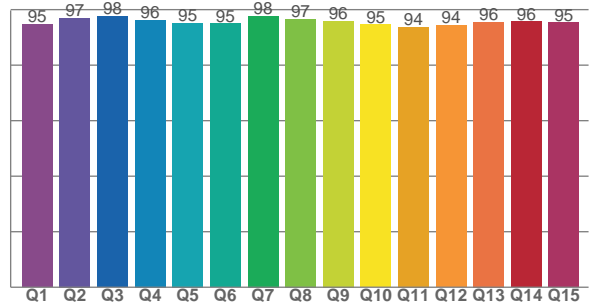
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
97.0	97.8	97.5	98.5	97.3	95.9	97.6	96.0	97.7	97.4	98.7	95.3	95.5	95.7	96.4	95.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94.7	97.0	97.6	96.3	95.3	94.9	97.7	96.7	95.8	94.6	93.7	94.3	95.6	95.7	95.3

**CQS: 95.5**



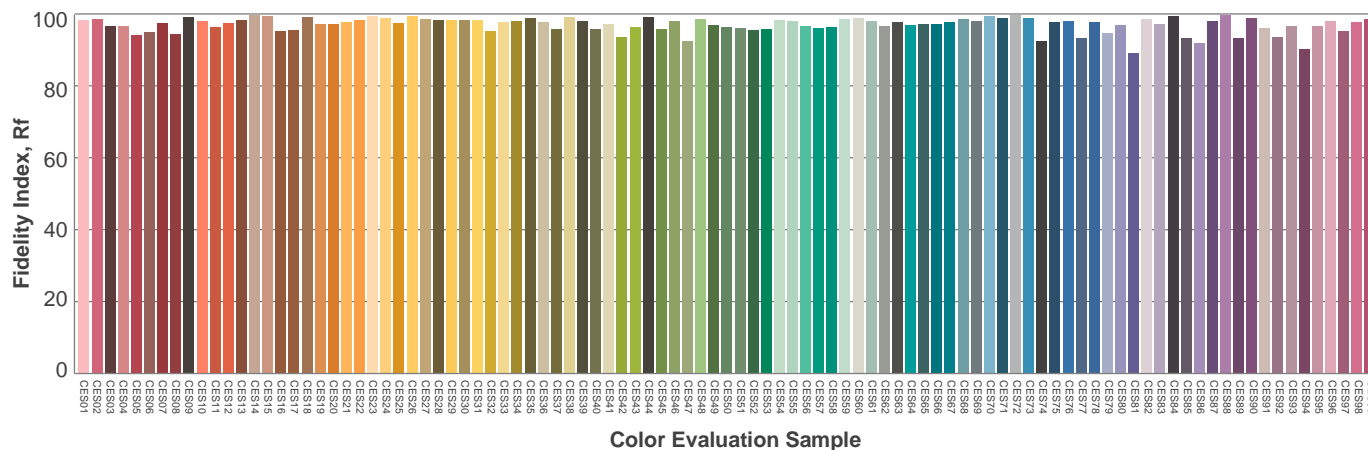
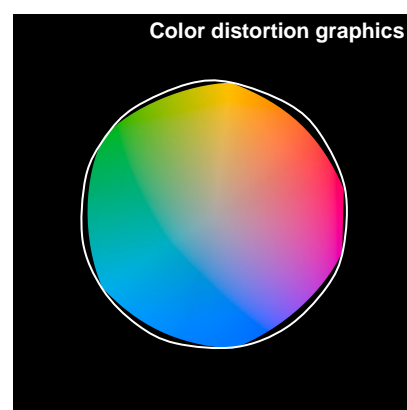
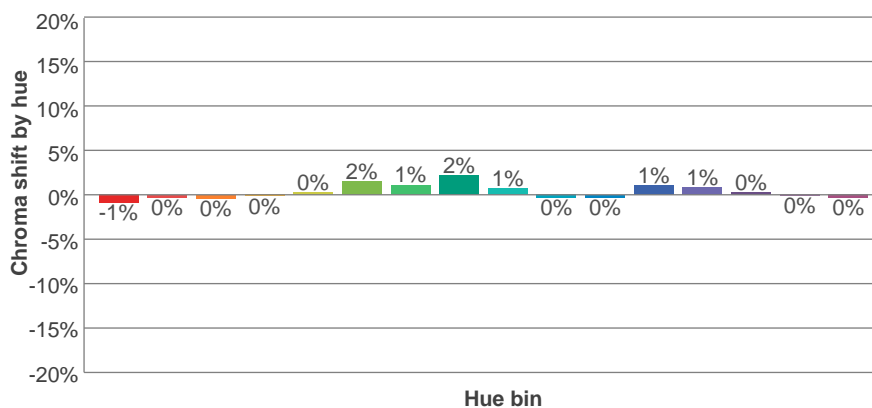
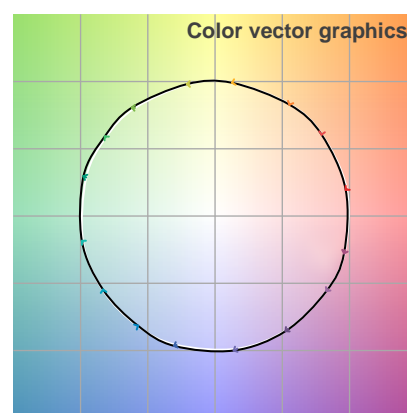
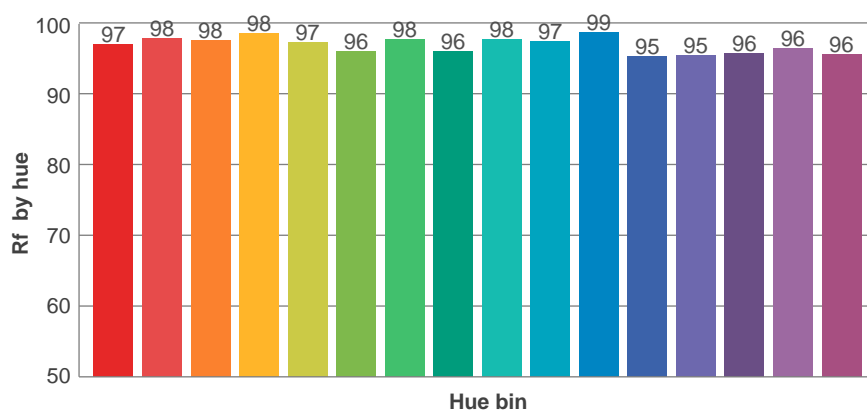
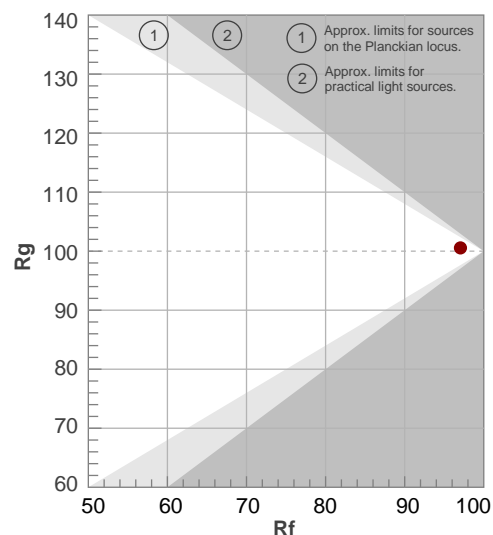
## Color parameters

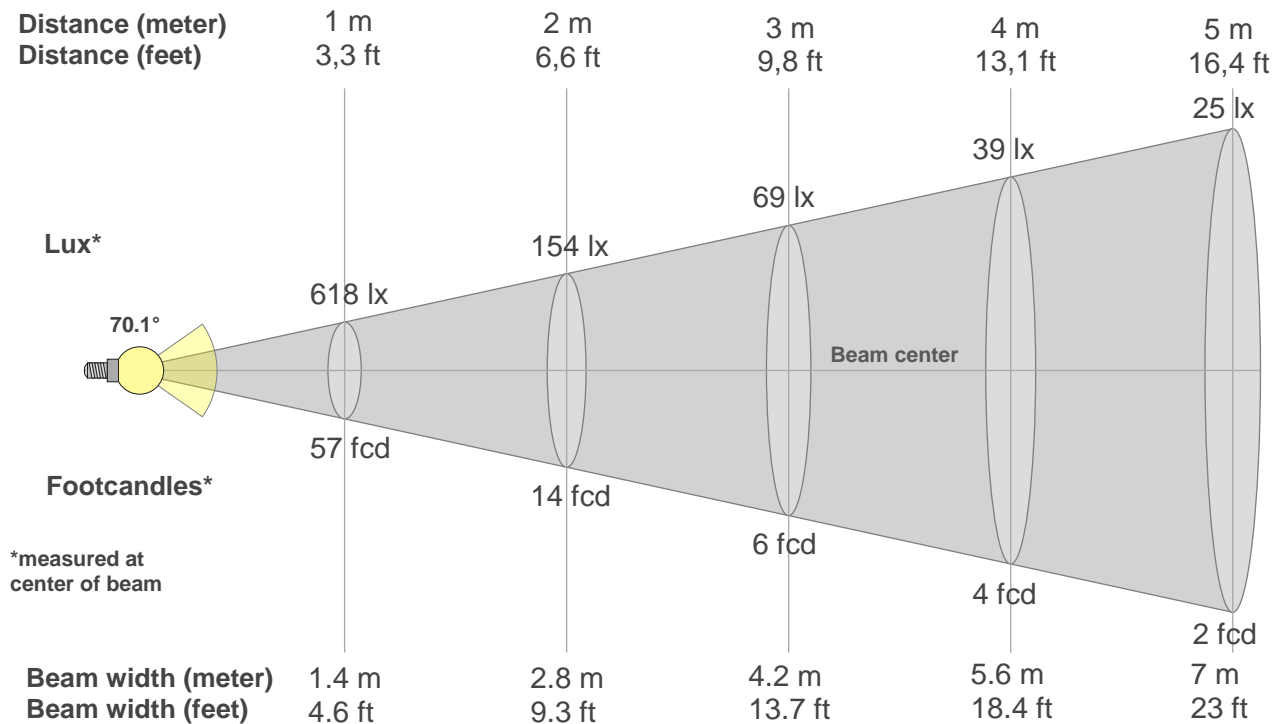
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	$\Delta uv$
3035 K	98.0	89.1	97.1	100.6	95.5	0.438	0.410	0.249	0.349	0.0021

Fidelity index  $R_f$

## Gammut index Rg

		Graphic shifts (%)	
Hue Bin	$R_f$	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	96	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
618lx	154lx	69lx	39lx	25lx	17lx	13lx	10lx	8lx	6lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	2lx
57.4fcd	14.4fcd	6.4fcd	3.6fcd	2.3fcd	1.6fcd	1.2fcd	0.9fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd	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°
618	611	588	553	506	449	376	284	188	112	70	51	39	29	19	12	6	3	0	0
100%	99%	95%	89%	82%	73%	61%	46%	30%	18%	11%	8%	6%	5%	3%	2%	1%	0%	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°
618	610	588	553	507	450	376	283	187	112	70	51	39	29	20	12	7	3	1	1
100%	99%	95%	90%	82%	73%	61%	46%	30%	18%	11%	8%	6%	5%	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°
618	611	588	553	506	449	376	284	188	112	70	51	39	29	19	12	6	3	0	0
100%	99%	95%	89%	82%	73%	61%	46%	30%	18%	11%	8%	6%	5%	3%	2%	1%	0%	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°
618	610	588	553	507	450	376	283	187	112	70	51	39	29	20	12	7	3	1	1
100%	99%	95%	90%	82%	73%	61%	46%	30%	18%	11%	8%	6%	5%	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
70.1°	106.4°	145.3°	94.1%	82.6%