

Light efficiency:

83 Lumen/Watt

Light quality:

CRI: 82.5

Color temperature:

2936 K

Output: 1611 lm

Peak: 1805 cd

Power: 19.5 W

PF: 0.99



Beam angle

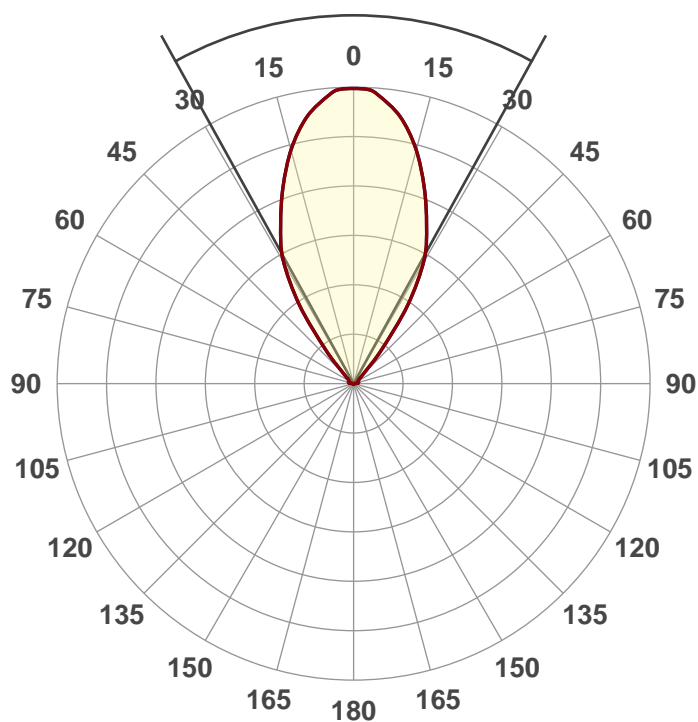
57.8°

Product name:

NU3-QDT-XTM19-20LM-30K-83-HE60-NL-120-Dim10-RET-WH-WH

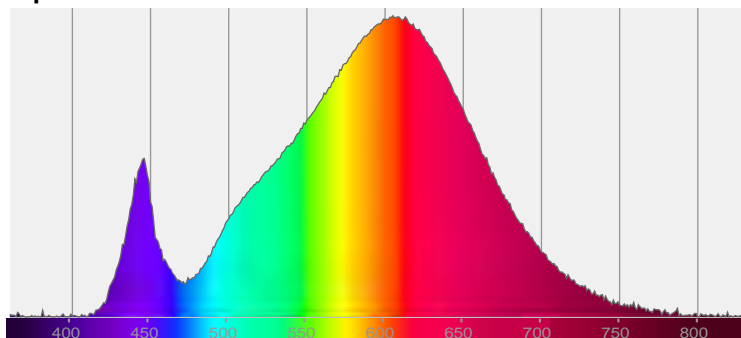
Date and time:

11/29/2017 1:02:42 PM

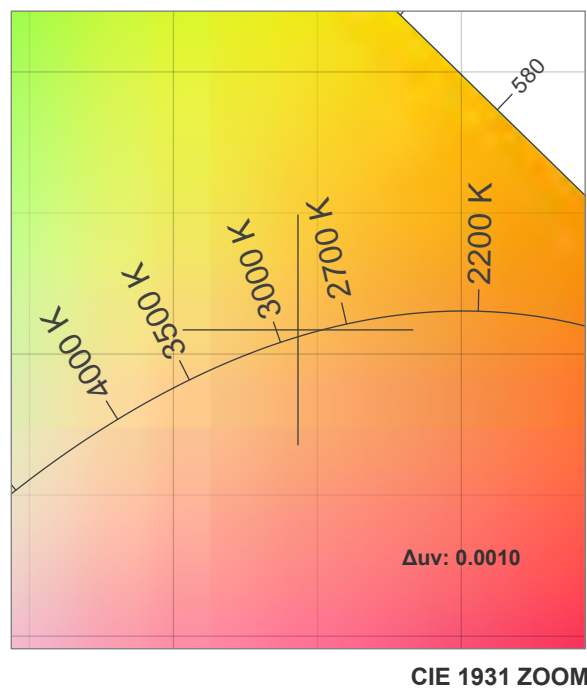
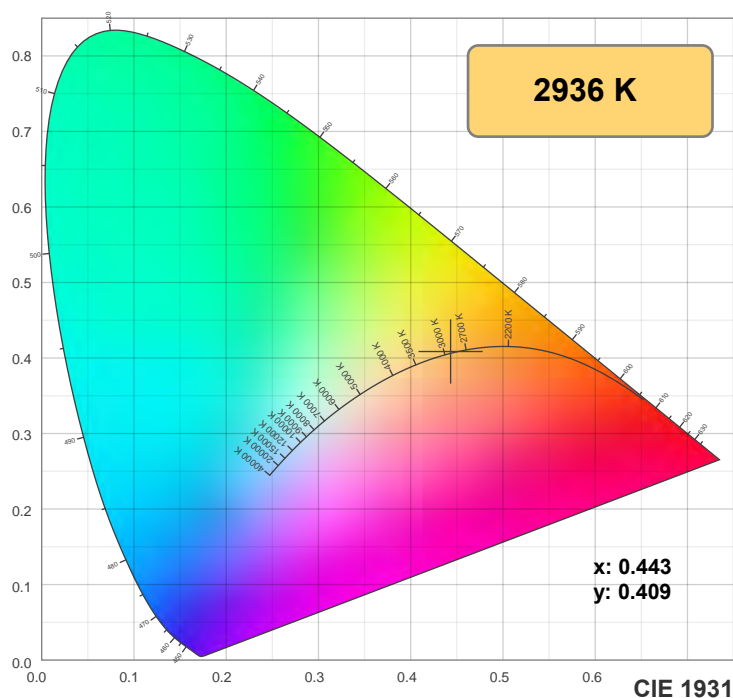


CIE 1931  
x: 0.443  
y: 0.409

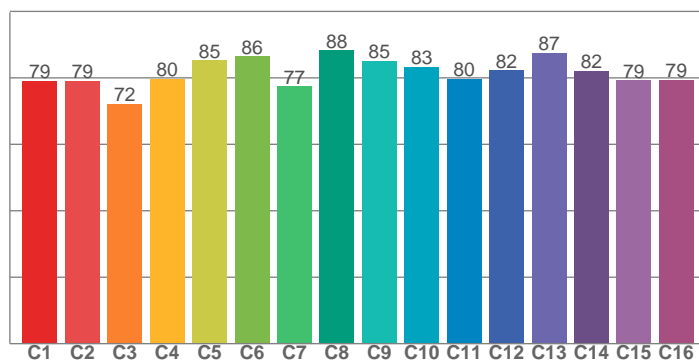
Spectra



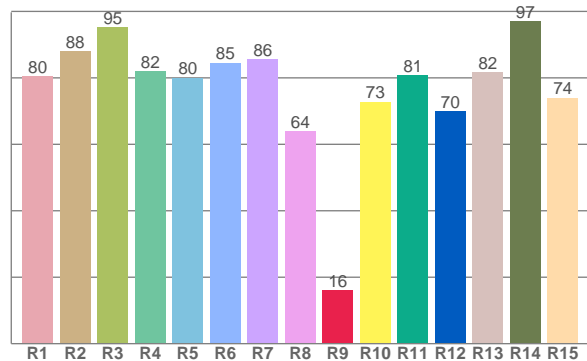
## Color details



TM30: 81.4



CRI: 82.5 (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
80.4	88.0	95.1	82.0	80.0	84.6	85.5	64.0	16.1	72.8	80.8	70.0	81.6	97.0	74.0

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
79.1	79.2	72.1	79.6	85.2	86.5	77.5	88.3	85.1	83.3	79.7	82.2	87.5	82.1	79.2	79.4

## Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	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	x	y	u	v	Δuv
2936 K	82.5	16.1	81.4	98.8	0.443	0.409	0.253	0.349	0.0010

## TM30 details

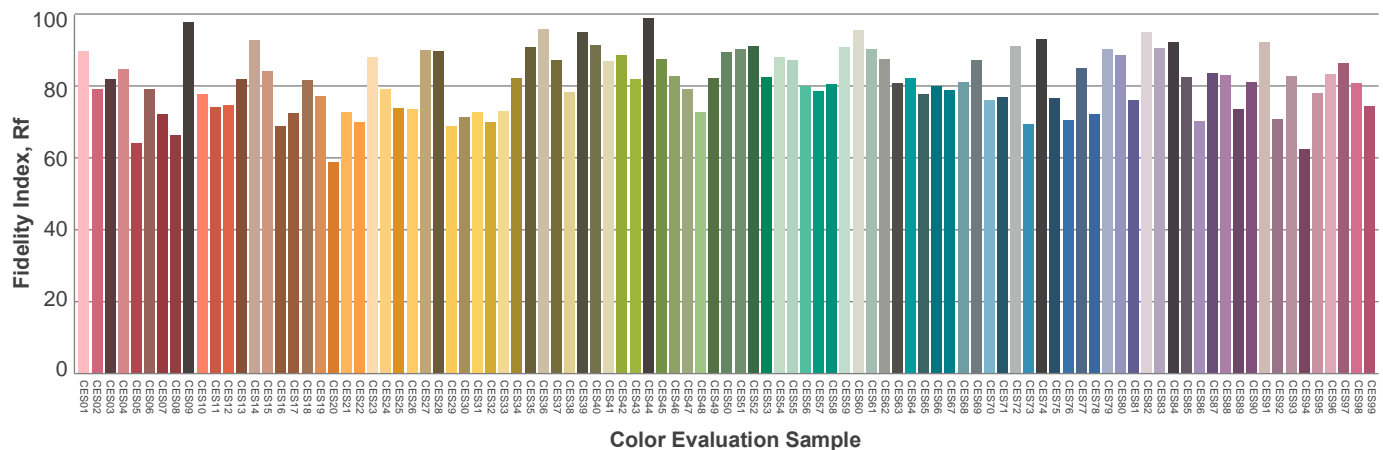
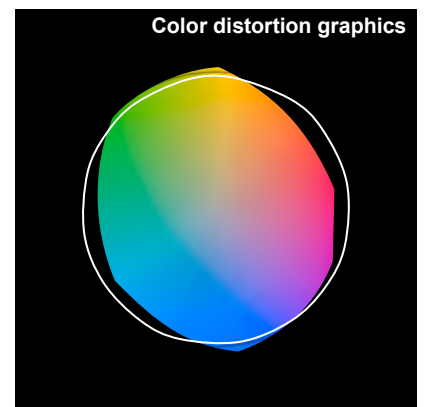
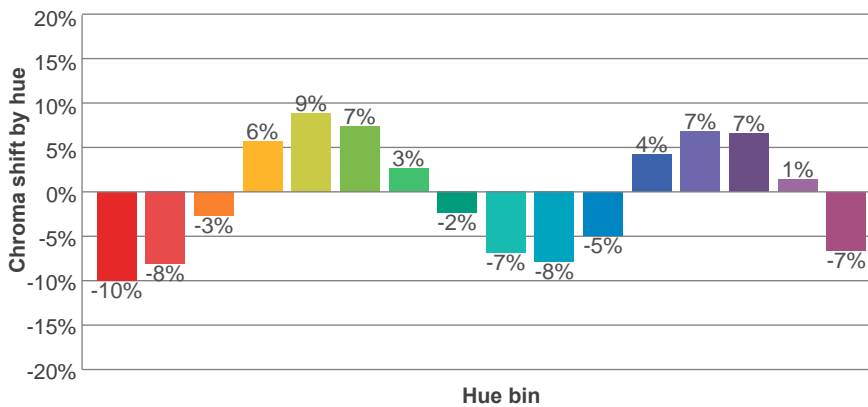
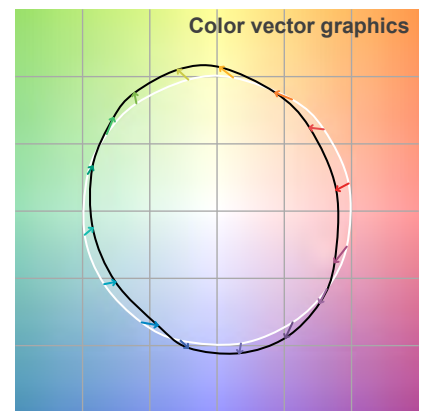
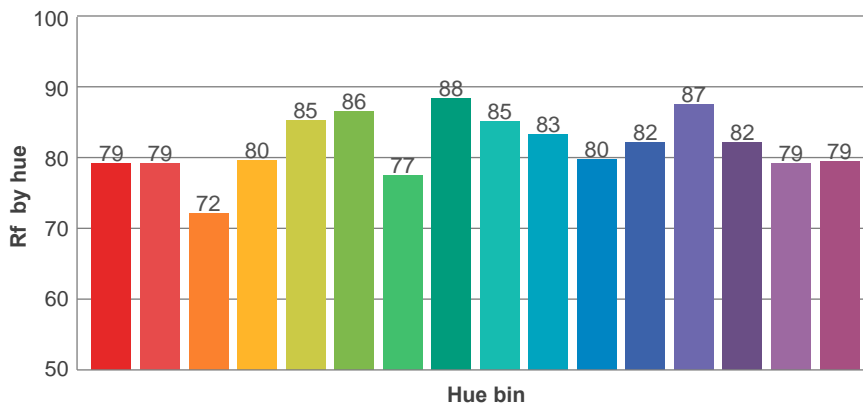
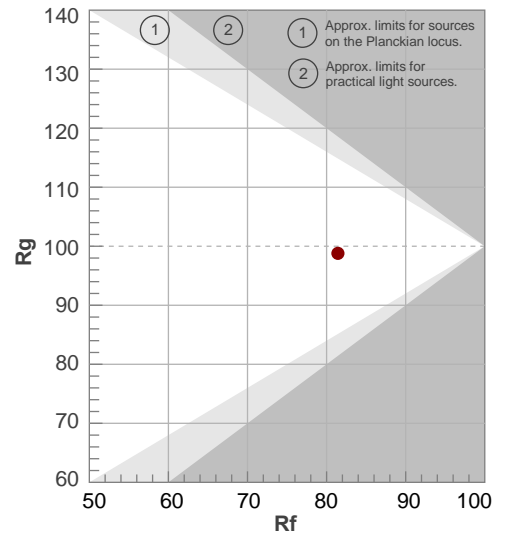
**Rf 81.4**

Fidelity index Rf

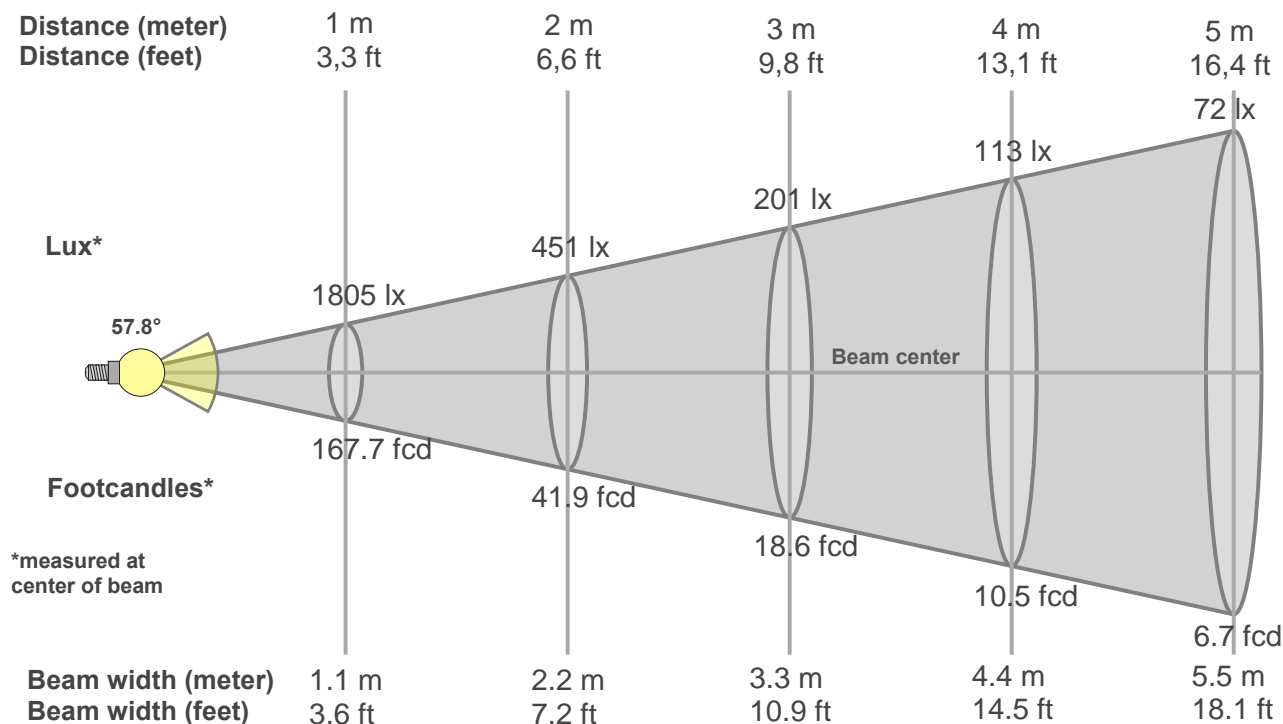
**Rg 98.8**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	-10%	-3%
2	79	-8%	7%
3	72	-3%	13%
4	80	6%	11%
5	85	9%	6%
6	86	7%	-3%
7	77	3%	-13%
8	88	-2%	-6%
9	85	-7%	-4%
10	83	-8%	3%
11	80	-5%	11%
12	82	4%	7%
13	87	7%	-3%
14	82	7%	-11%
15	79	1%	-11%
16	79	-7%	-13%



## 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
1805lx	451lx	201lx	113lx	72lx	50lx	37lx	28lx	22lx	18lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	5lx
167.7fcd	41.9fcd	18.6fcd	10.5fcd	6.7fcd	4.7fcd	3.4fcd	2.6fcd	2.1fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.7fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd

### 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°
1805	1805	1785	1749	1704	1657	1587	1518	1439	1354	1269	1184	1099	1018	939	853	736	618	494	366
100%	100%	99%	97%	94%	92%	88%	84%	80%	75%	70%	66%	61%	56%	52%	47%	41%	34%	27%	20%

### 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°
1805	1805	1785	1749	1704	1657	1587	1518	1439	1354	1269	1184	1099	1018	939	853	736	618	494	366
100%	100%	99%	97%	94%	92%	88%	84%	80%	75%	70%	66%	61%	56%	52%	47%	41%	34%	27%	20%

### 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°
1805	1805	1785	1749	1704	1657	1587	1518	1439	1354	1269	1184	1099	1018	939	853	736	618	494	366
100%	100%	99%	97%	94%	92%	88%	84%	80%	75%	70%	66%	61%	56%	52%	47%	41%	34%	27%	20%

### 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°
1805	1805	1785	1749	1704	1657	1587	1518	1439	1354	1269	1184	1099	1018	939	853	736	618	494	366
100%	100%	99%	97%	94%	92%	88%	84%	80%	75%	70%	66%	61%	56%	52%	47%	41%	34%	27%	20%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
57.8°	84°	101.6°	94.3%	90.5%