

Light efficiency:

80 Lumen/Watt

Light quality:

CRI: 82.1

Color temperature:

2903 K

Output: 1553 lm

Peak: 972 cd

Power: 19.5 W

PF: 0.99



Beam angle

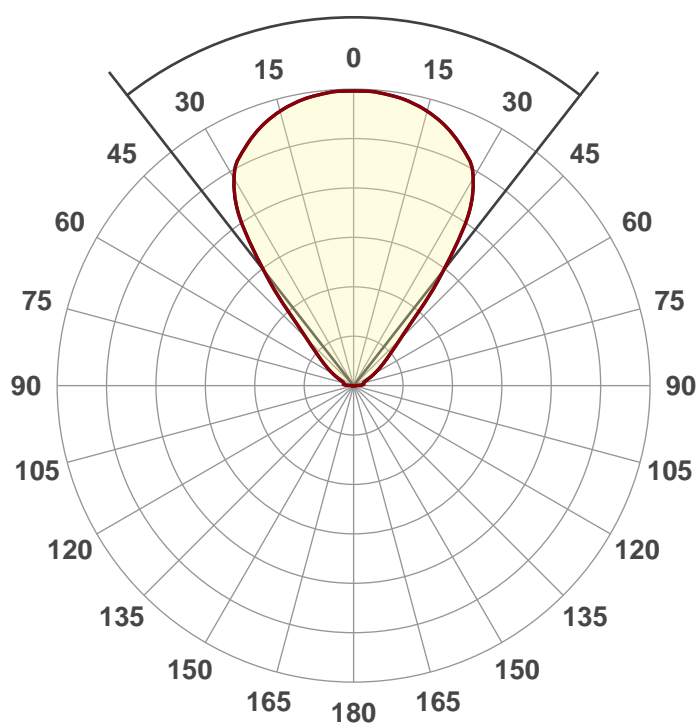
75.9°

Product name:

NU3-QD-XTM19-20LM-30K-83-WH80-NL-120-Dim10-RET-WH-WH

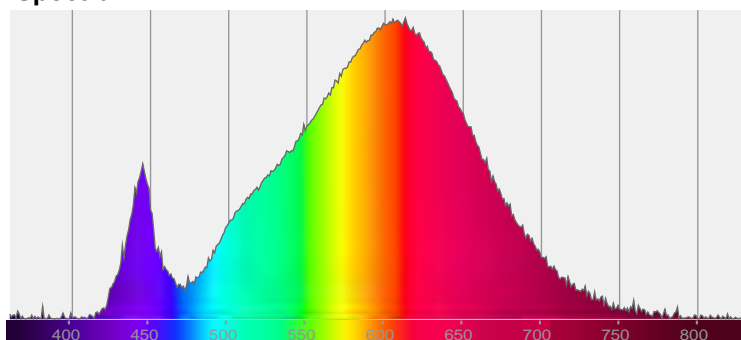
Date and time:

11/29/2017 12:54:48 PM

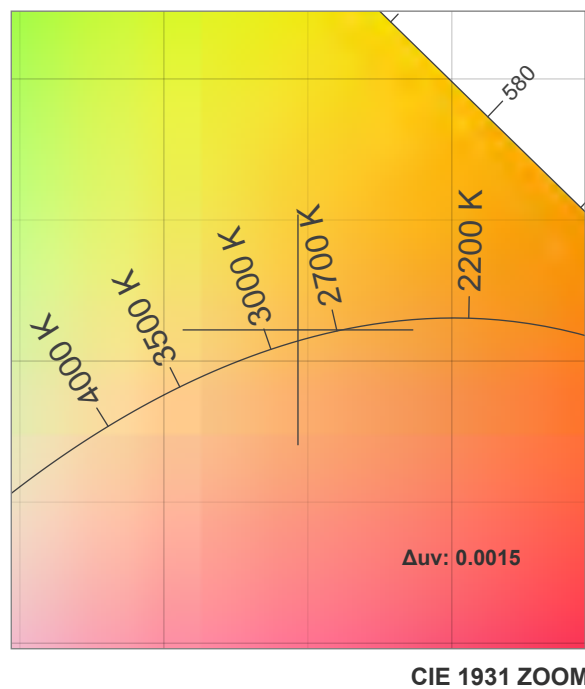
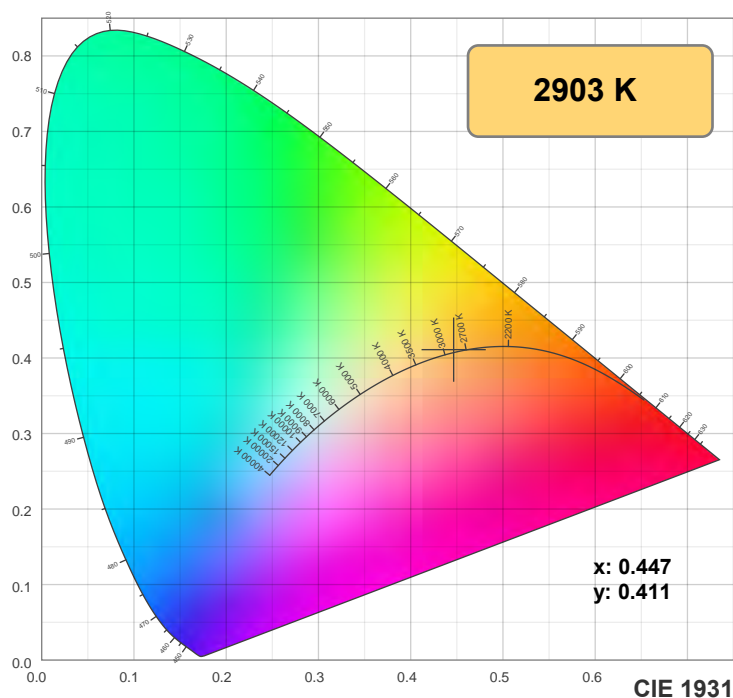


CIE 1931  
x: 0.447  
y: 0.411

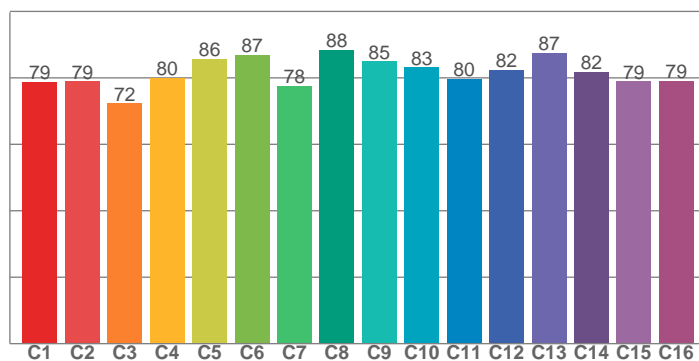
Spectra



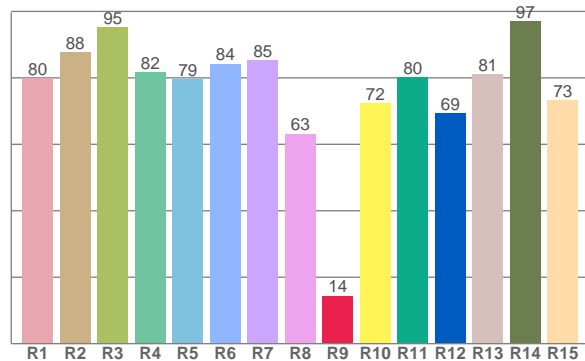
## Color details



TM30: 81.4



CRI: 82.1 (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
79.9	87.8	95.3	81.6	79.5	84.3	85.4	63.1	14.4	72.4	80.2	69.2	81.2	97.0	73.3

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
78.7	78.9	72.2	80.0	85.7	87.0	77.6	88.5	85.0	83.1	79.7	82.3	87.5	81.8	79.0	79.1

## 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
2903 K	82.1	14.4	81.4	98.4	0.447	0.411	0.254	0.350	0.0015

## TM30 details

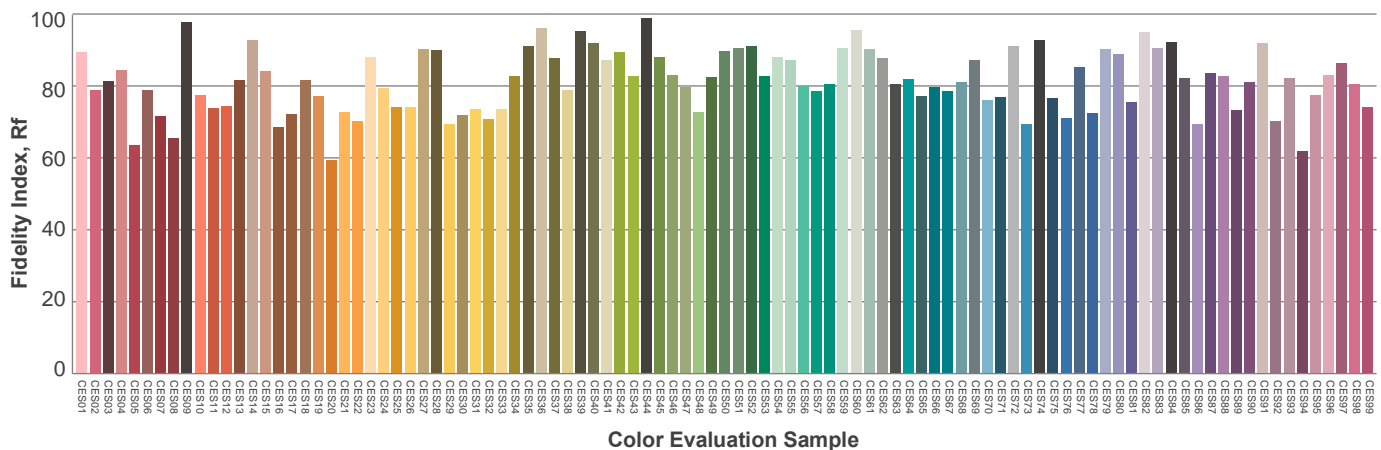
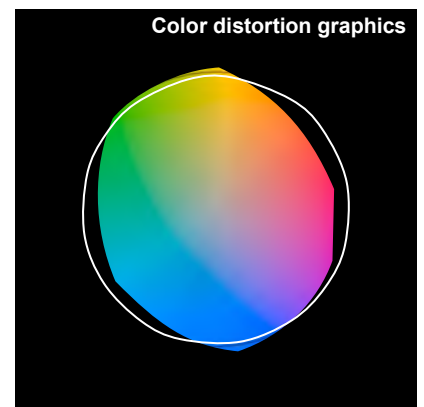
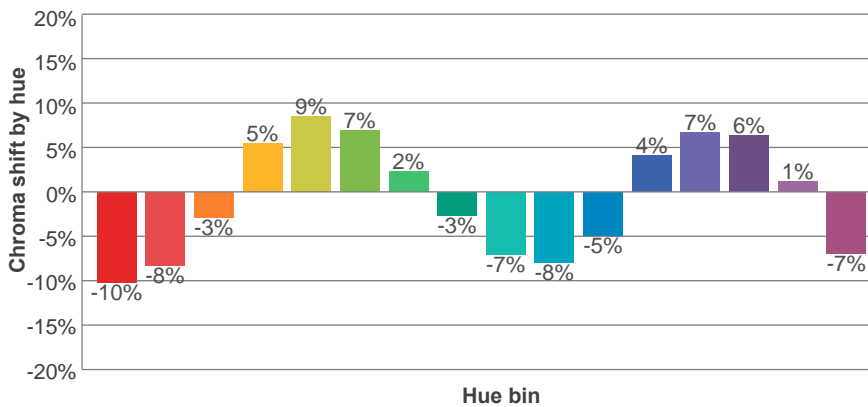
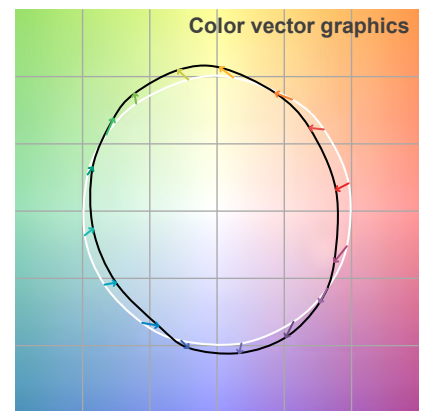
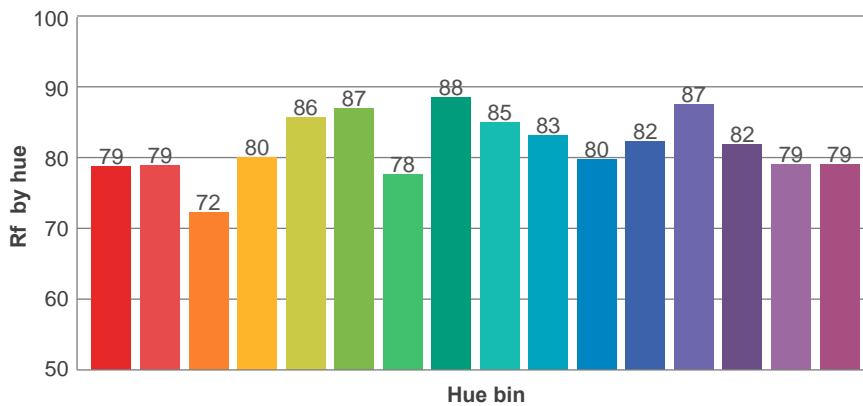
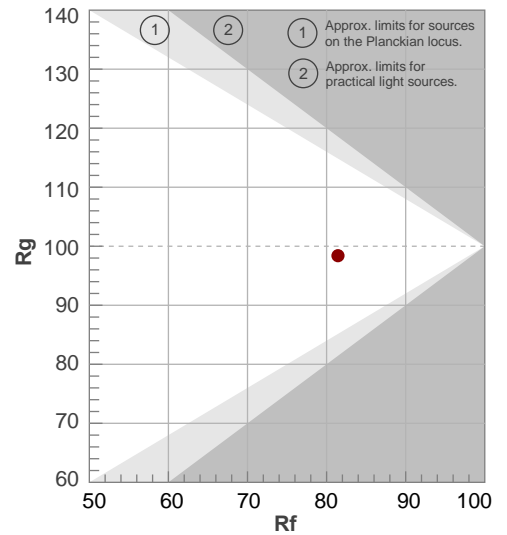
**Rf 81.4**

Fidelity index Rf

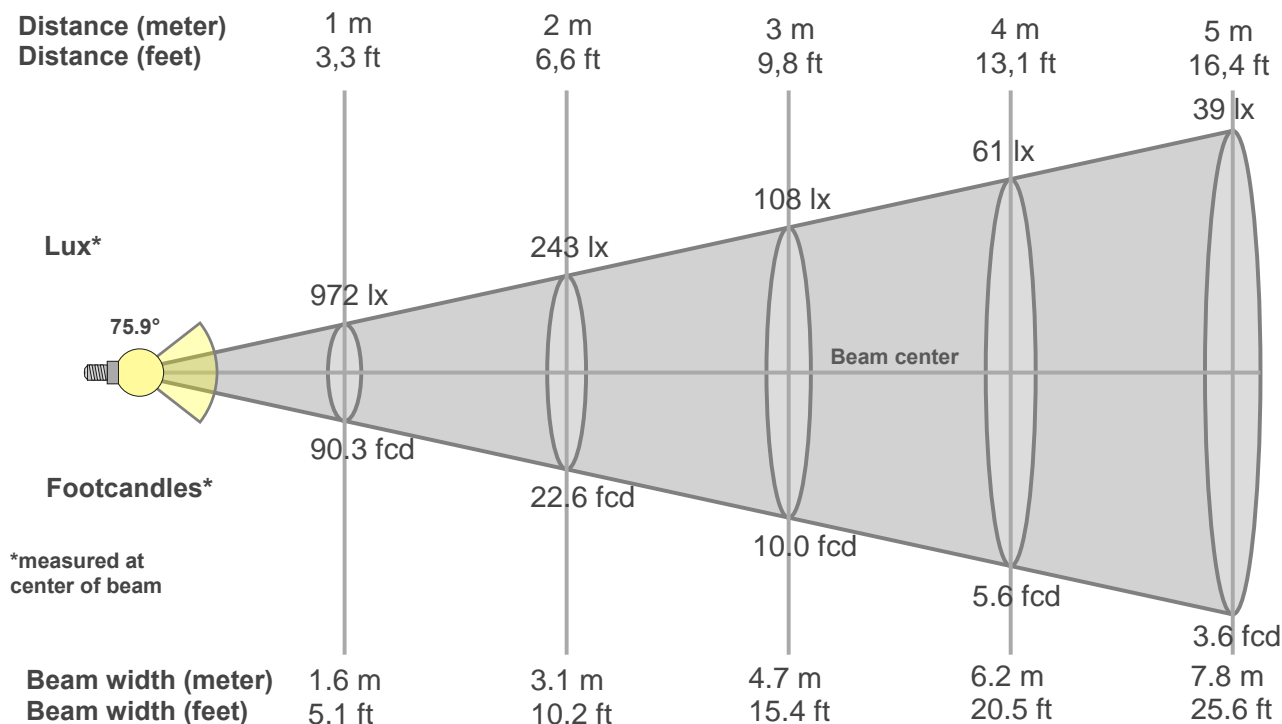
**Rg 98.4**

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	5%	11%
5	86	9%	6%
6	87	7%	-3%
7	78	2%	-13%
8	88	-3%	-6%
9	85	-7%	-4%
10	83	-8%	3%
11	80	-5%	11%
12	82	4%	6%
13	87	7%	-3%
14	82	6%	-11%
15	79	1%	-12%
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
972lx	243lx	108lx	61lx	39lx	27lx	20lx	15lx	12lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx
90.3fcd	22.6fcd	10fcd	5.6fcd	3.6fcd	2.5fcd	1.8fcd	1.4fcd	1.1fcd	0.9fcd	0.7fcd	0.6fcd	0.5fcd	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°
972	970	959	937	904	857	784	627	396	224	152	111	80	56	41	34	33	28	7	6
100%	100%	99%	96%	93%	88%	81%	65%	41%	23%	16%	11%	8%	6%	4%	3%	3%	3%	1%	1%

### 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°
972	970	959	937	904	857	784	627	396	224	152	111	80	56	41	34	33	28	7	6
100%	100%	99%	96%	93%	88%	81%	65%	41%	23%	16%	11%	8%	6%	4%	3%	3%	3%	1%	1%

### 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°
972	970	959	937	904	857	784	627	396	224	152	111	80	56	41	34	33	28	7	6
100%	100%	99%	96%	93%	88%	81%	65%	41%	23%	16%	11%	8%	6%	4%	3%	3%	3%	1%	1%

### 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°
972	970	959	937	904	857	784	627	396	224	152	111	80	56	41	34	33	28	7	6
100%	100%	99%	96%	93%	88%	81%	65%	41%	23%	16%	11%	8%	6%	4%	3%	3%	3%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
75.9°	114.1°	171.7°	91.0%	79.7%