

Light efficiency:

53 Lumen/Watt

Light quality:

CRI: 97.5

Color temperature:

2731 K

Output: 646 lm

Peak: 632 cd

Power: 12.1 W

PF: 0.95



Beam angle

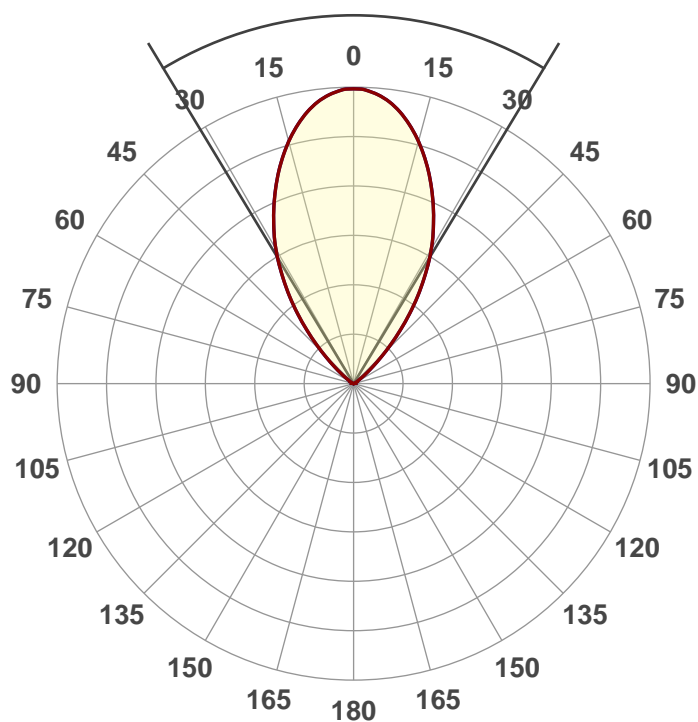
62.2°

Product name:

**NU3-QD-XTM19-10LM-27K-98-
HE60-120-Dim10-RET-WH-BK**

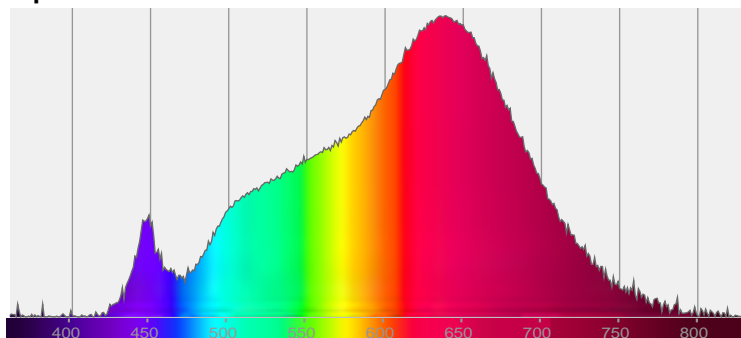
Date and time:

6/23/2017 1:17:17 PM

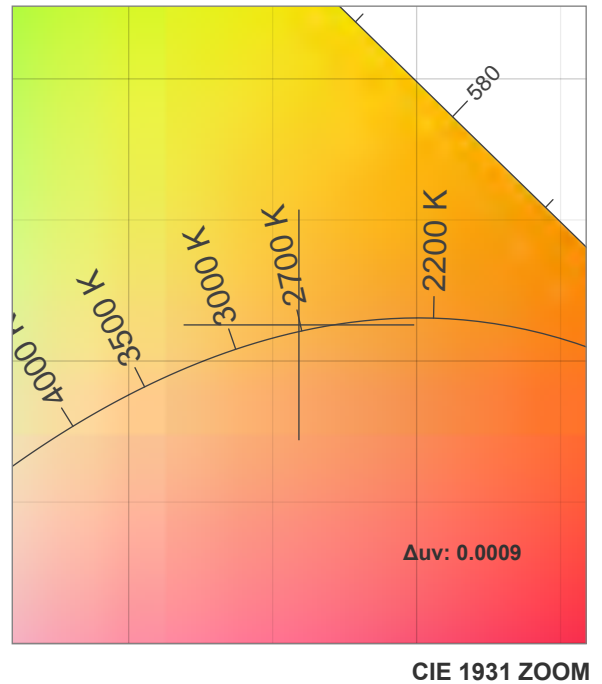
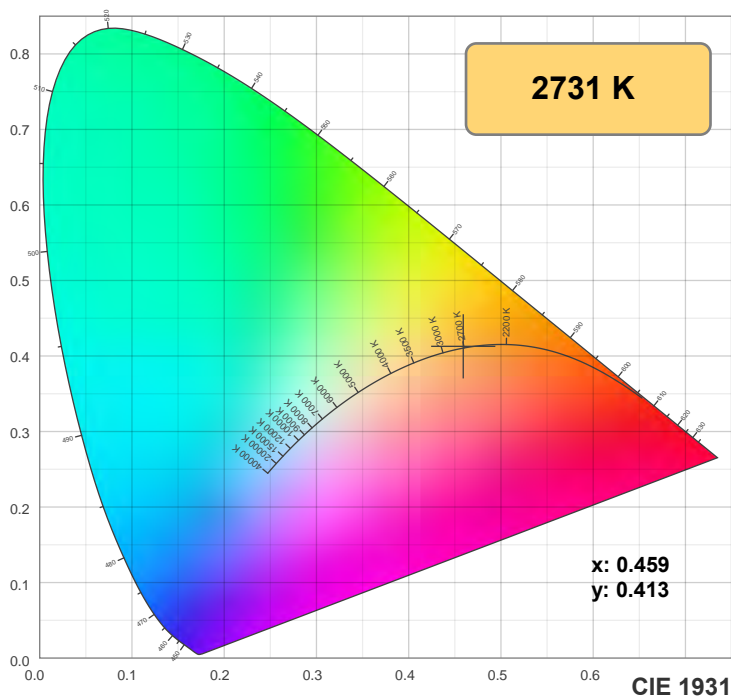


CIE 1931
x: 0.459
y: 0.413

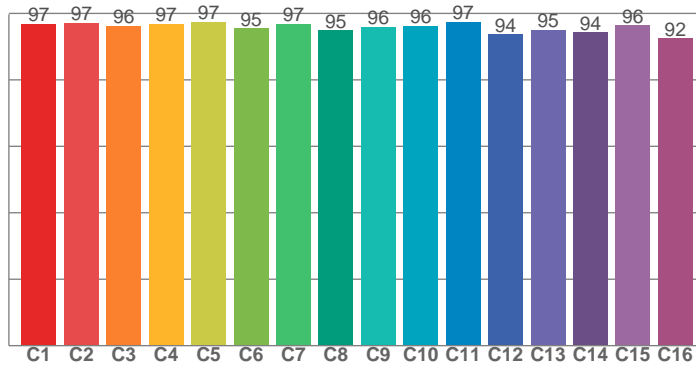
Spectra



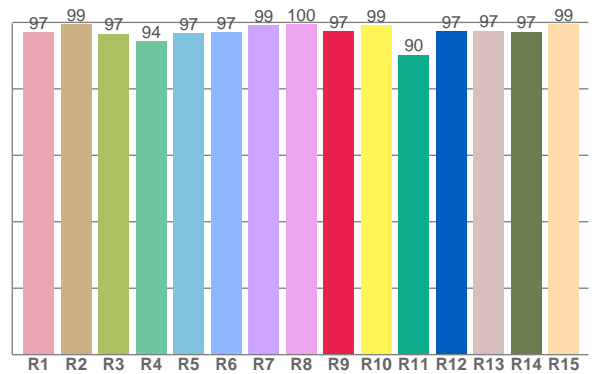
Color details



TM30: 96.0



CRI: 97.5 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97.1 | 99.4 | 96.6 | 94.3 | 96.7 | 97.1 | 99.2 | 99.5 | 97.3 | 99.2 | 90.3 | 97.4 | 97.5 | 97.2 | 99.4 |

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 | 97.2 | 96.3 | 96.9 | 97.5 | 95.4 | 96.9 | 94.8 | 95.9 | 96.2 | 97.4 | 93.7 | 95.1 | 94.4 | 96.4 | 92.4 |

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 |
| 2731 K | 97.5 | 97.3 | 96.0 | 101.8 | 0.459 | 0.413 | 0.261 | 0.352 | 0.0009 |

TM30 details

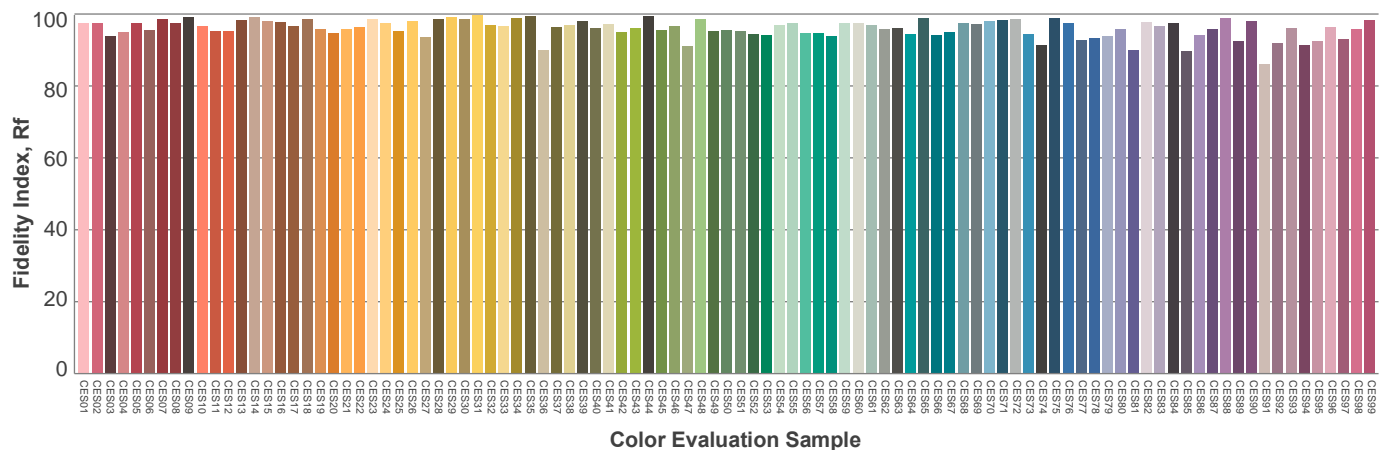
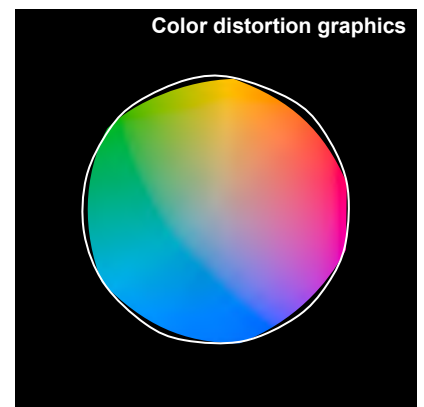
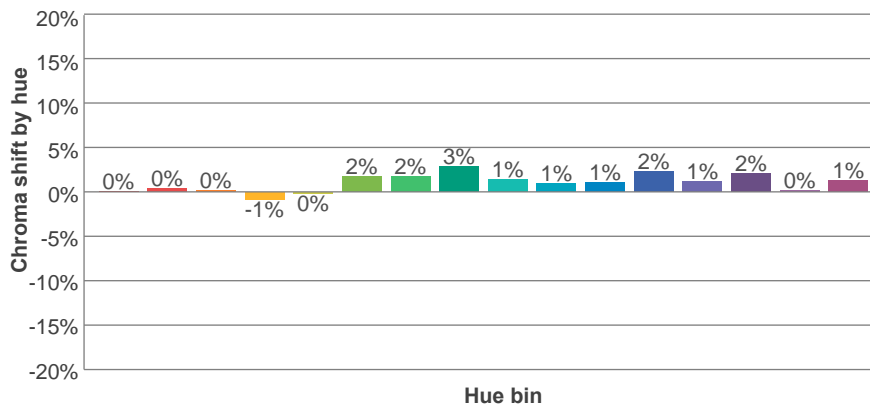
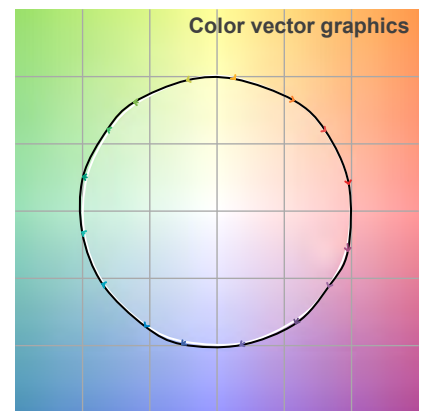
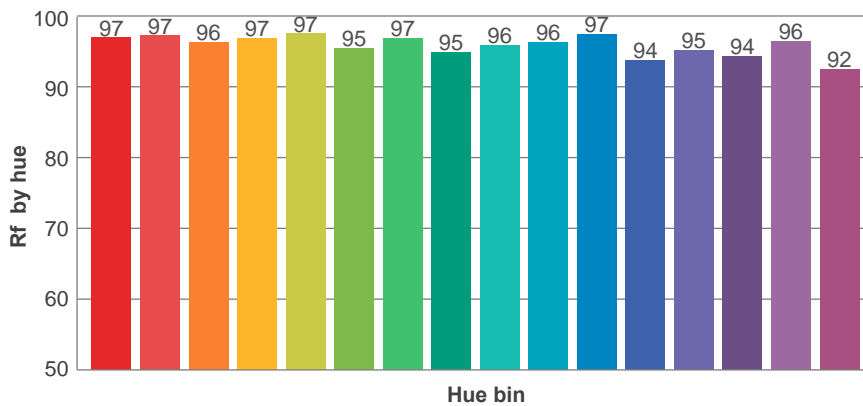
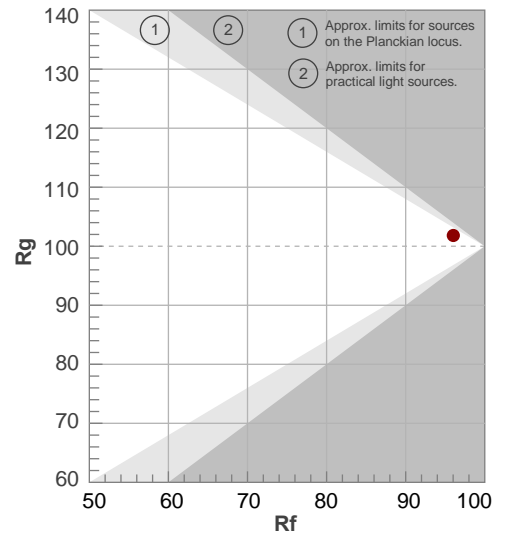
Rf 96.0

Fidelity index Rf

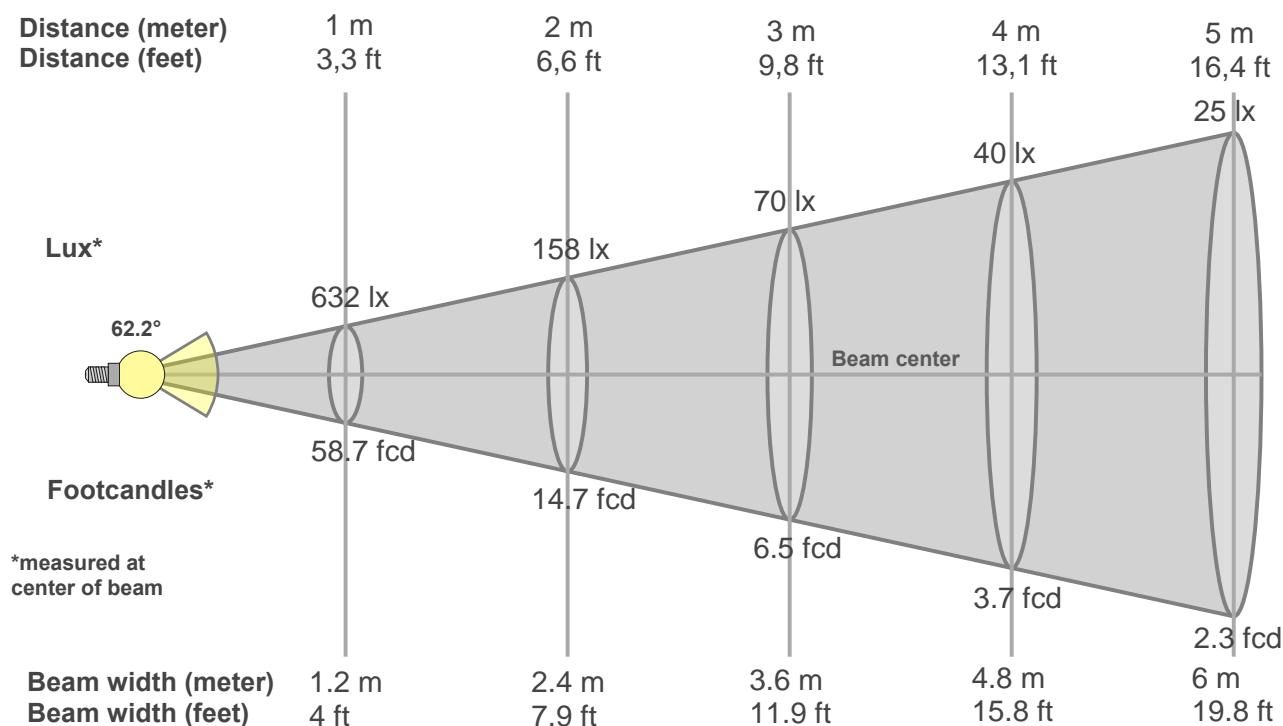
Rg 101.8

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 97 | 0% | -1% |
| 2 | 97 | 0% | -1% |
| 3 | 96 | 0% | -1% |
| 4 | 97 | -1% | -1% |
| 5 | 97 | 0% | 1% |
| 6 | 95 | 2% | 2% |
| 7 | 97 | 2% | 0% |
| 8 | 95 | 3% | 0% |
| 9 | 96 | 1% | -1% |
| 10 | 96 | 1% | -1% |
| 11 | 97 | 1% | 0% |
| 12 | 94 | 2% | -2% |
| 13 | 95 | 1% | -3% |
| 14 | 94 | 2% | -3% |
| 15 | 96 | 0% | -1% |
| 16 | 92 | 1% | -5% |



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 |
| 632lx | 158lx | 70lx | 40lx | 25lx | 18lx | 13lx | 10lx | 8lx | 6lx | 5lx | 4lx | 4lx | 3lx | 3lx | 2lx | 2lx | 2lx | 2lx | 2lx |
| 58.7fcd | 14.7fcd | 6.5fcd | 3.7fcd | 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° | 2° | 4° | 6° | 8° | 10° | 12° | 14° | 16° | 18° | 20° | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 632 | 631 | 625 | 616 | 604 | 588 | 570 | 549 | 526 | 501 | 475 | 448 | 420 | 391 | 363 | 333 | 302 | 269 | 236 | 203 |
| 100% | 100% | 99% | 97% | 95% | 93% | 90% | 87% | 83% | 79% | 75% | 71% | 66% | 62% | 57% | 53% | 48% | 42% | 37% | 32% |

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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 632 | 631 | 625 | 616 | 604 | 588 | 570 | 549 | 526 | 501 | 475 | 448 | 420 | 391 | 363 | 333 | 302 | 269 | 236 | 203 |
| 100% | 100% | 99% | 97% | 95% | 93% | 90% | 87% | 83% | 79% | 75% | 71% | 66% | 62% | 57% | 53% | 48% | 42% | 37% | 32% |

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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 632 | 631 | 625 | 616 | 604 | 588 | 570 | 549 | 526 | 501 | 475 | 448 | 420 | 391 | 363 | 333 | 302 | 269 | 236 | 203 |
| 100% | 100% | 99% | 97% | 95% | 93% | 90% | 87% | 83% | 79% | 75% | 71% | 66% | 62% | 57% | 53% | 48% | 42% | 37% | 32% |

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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 632 | 631 | 625 | 616 | 604 | 588 | 570 | 549 | 526 | 501 | 475 | 448 | 420 | 391 | 363 | 333 | 302 | 269 | 236 | 203 |
| 100% | 100% | 99% | 97% | 95% | 93% | 90% | 87% | 83% | 79% | 75% | 71% | 66% | 62% | 57% | 53% | 48% | 42% | 37% | 32% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 62.2° | 95.5° | 110.1° | 99.3% | 92.7% |