

Light efficiency:

**58 Lumen/Watt**

Light quality:

**CRI: 97.3**

Color temperature:

**2736 K**

**Output: 696 lm**

**Peak: 637 cd**

**Power: 12.0 W**

**PF: 0.95**



Beam angle

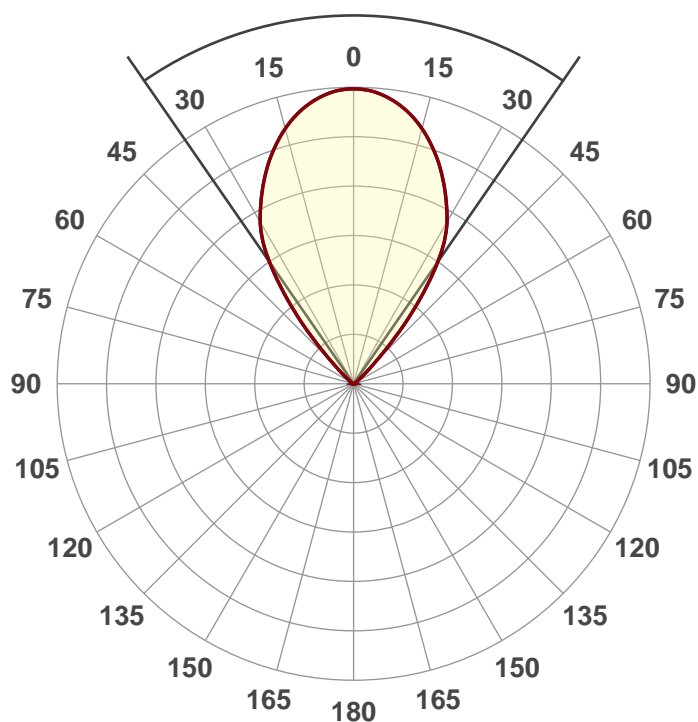
**69.3°**

Product name:

**NU3-QDT-XTM19-10LM-27K-98-D65-120-DIM10-RET-WH-BK**

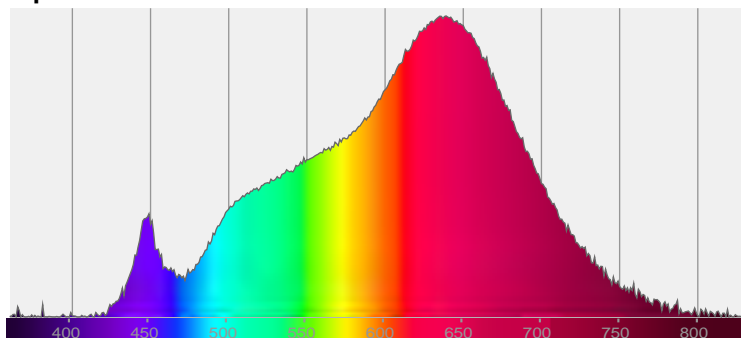
Date and time:

**6/23/2017 1:32:44 PM**

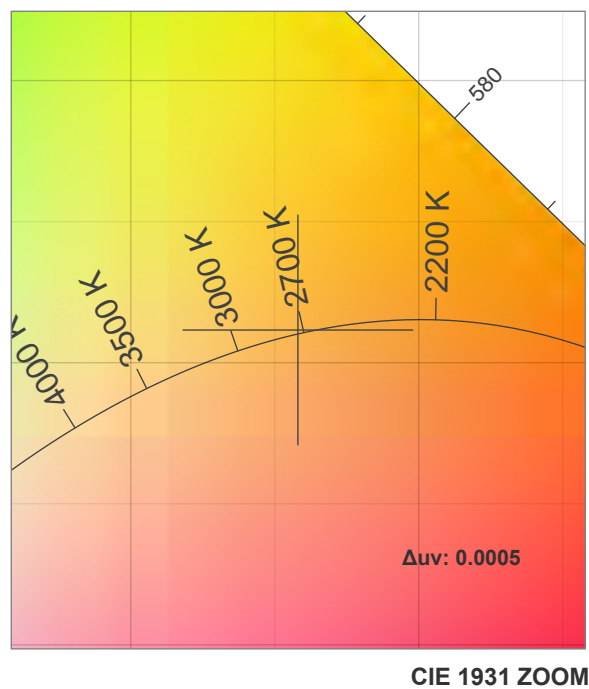
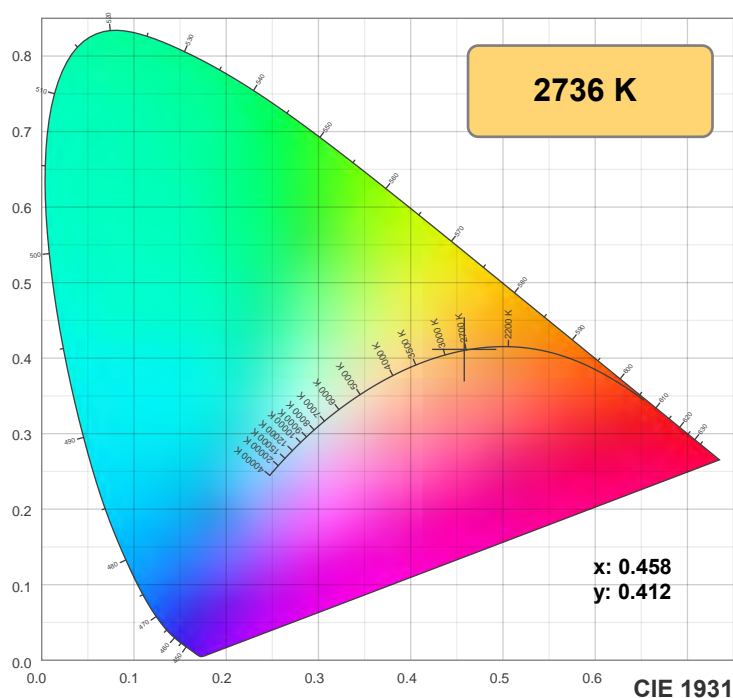


**CIE 1931**  
**x: 0.458**  
**y: 0.412**

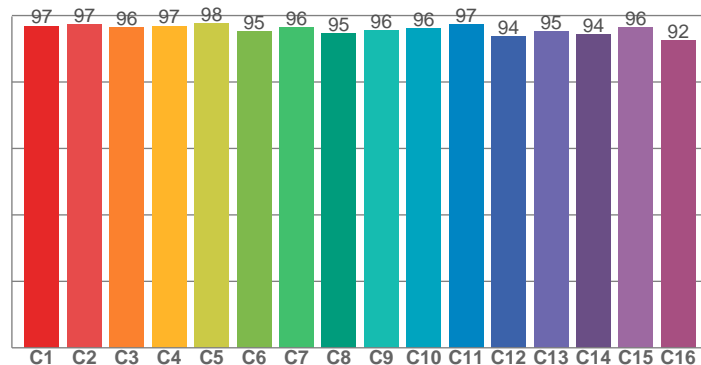
Spectra



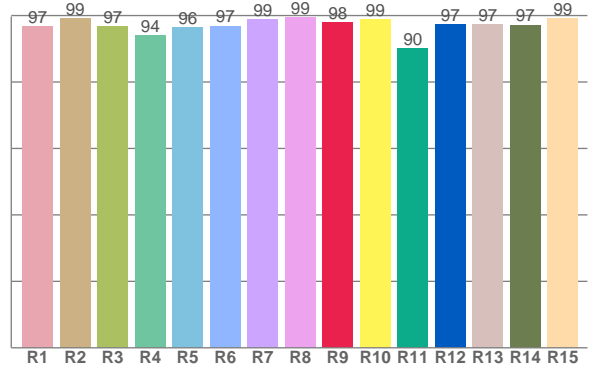
## Color details



**TM30: 95.9**



**CRI: 97.3 (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  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96.9 | 99.3 | 96.6 | 94.1 | 96.4 | 96.9 | 99.0 | 99.3 | 98.0 | 98.9 | 90.0 | 97.4 | 97.2 | 97.2 | 99.1 |

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  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96.8 | 97.2 | 96.3 | 96.8 | 97.6 | 95.2 | 96.5 | 94.6 | 95.6 | 96.0 | 97.3 | 93.7 | 95.1 | 94.3 | 96.5 | 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                             |
| 2736 K            | 97.3                  | 98.0          | 95.9           | 102.2       | 0.458                     | 0.412                     | 0.261            | 0.352            | 0.0005                          |

## TM30 details

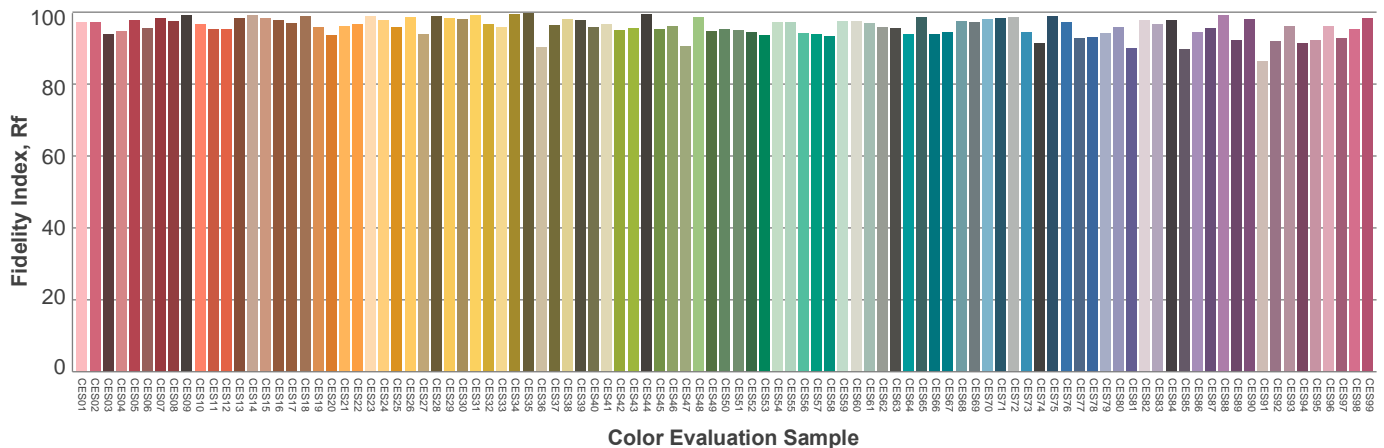
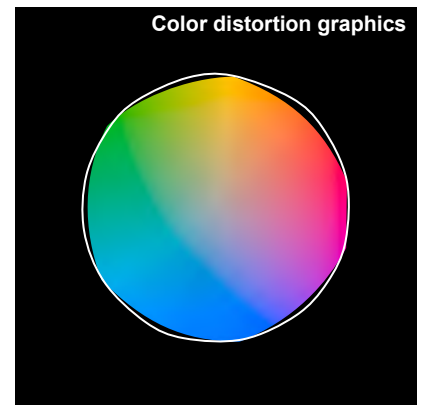
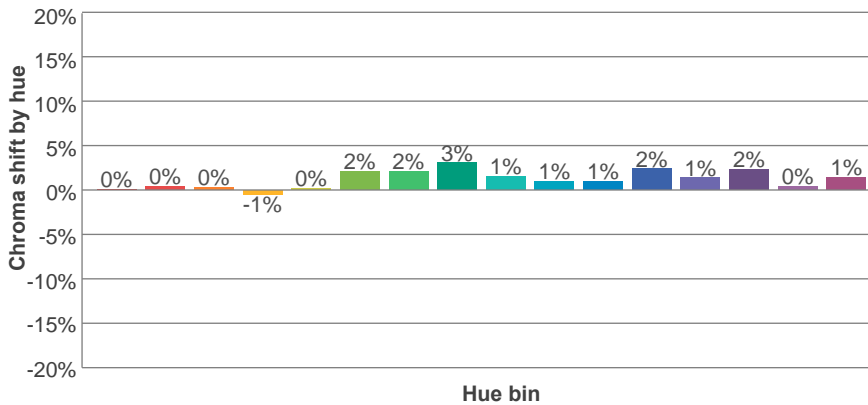
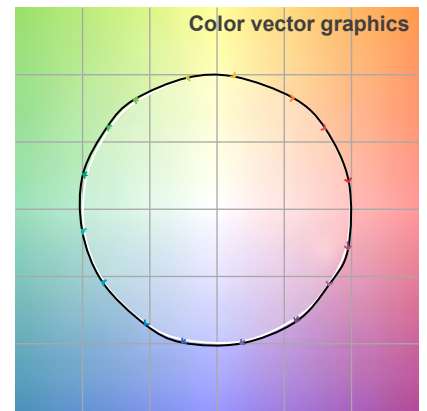
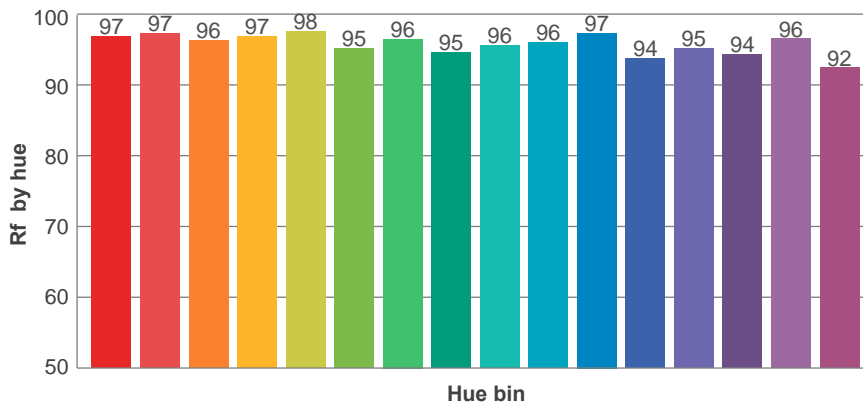
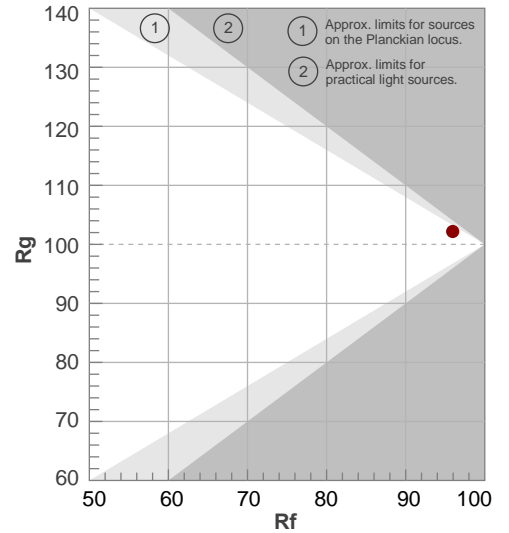
**Rf 95.9**

Fidelity index Rf

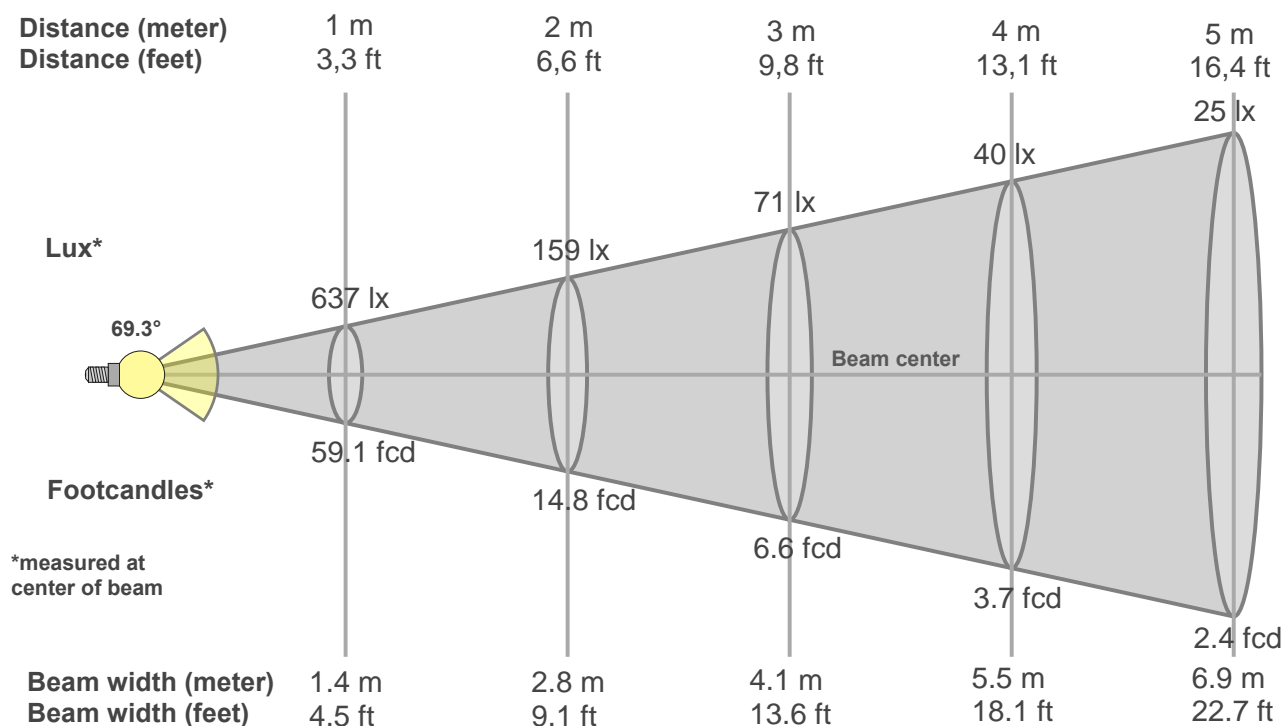
**Rg 102.2**

Gamut index Rg

| Hue Bin | Rf | Graphic shifts (%) |     |
|---------|----|--------------------|-----|
|         |    | Chroma             | Hue |
| 1       | 97 | 0%                 | -1% |
| 2       | 97 | 0%                 | -1% |
| 3       | 96 | 0%                 | 0%  |
| 4       | 97 | -1%                | -1% |
| 5       | 98 | 0%                 | 1%  |
| 6       | 95 | 2%                 | 2%  |
| 7       | 96 | 2%                 | 0%  |
| 8       | 95 | 3%                 | 0%  |
| 9       | 96 | 1%                 | -1% |
| 10      | 96 | 1%                 | -2% |
| 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 |
| 637lx   | 159lx   | 71lx   | 40lx   | 25lx   | 18lx   | 13lx   | 10lx   | 8lx    | 6lx    | 5lx    | 4lx    | 4lx    | 3lx    | 3lx    | 2lx    | 2lx    | 2lx    | 2lx    | 2lx    |
| 59.1fcd | 14.8fcd | 6.6fcd | 3.7fcd | 2.4fcd | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 637  | 636  | 632 | 626 | 617 | 606 | 594 | 579 | 562 | 543 | 522 | 500 | 477 | 453 | 429 | 403 | 372 | 333 | 286 | 234 |
| 100% | 100% | 99% | 98% | 97% | 95% | 93% | 91% | 88% | 85% | 82% | 79% | 75% | 71% | 67% | 63% | 58% | 52% | 45% | 37% |

### 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 637  | 636  | 632 | 626 | 617 | 606 | 594 | 579 | 562 | 543 | 522 | 500 | 477 | 453 | 429 | 403 | 372 | 333 | 286 | 234 |
| 100% | 100% | 99% | 98% | 97% | 95% | 93% | 91% | 88% | 85% | 82% | 79% | 75% | 71% | 67% | 63% | 58% | 52% | 45% | 37% |

### 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 637  | 636  | 632 | 626 | 617 | 606 | 594 | 579 | 562 | 543 | 522 | 500 | 477 | 453 | 429 | 403 | 372 | 333 | 286 | 234 |
| 100% | 100% | 99% | 98% | 97% | 95% | 93% | 91% | 88% | 85% | 82% | 79% | 75% | 71% | 67% | 63% | 58% | 52% | 45% | 37% |

### 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 637  | 636  | 632 | 626 | 617 | 606 | 594 | 579 | 562 | 543 | 522 | 500 | 477 | 453 | 429 | 403 | 372 | 333 | 286 | 234 |
| 100% | 100% | 99% | 98% | 97% | 95% | 93% | 91% | 88% | 85% | 82% | 79% | 75% | 71% | 67% | 63% | 58% | 52% | 45% | 37% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 69.3°          | 90.5°           | 103.7°            | 99.3%                        | 95.6%                       |