

Light efficiency:

66 Lumen/Watt

Light quality:

CRI: 96.4

Color temperature:

2967 K

Output: 967 lm

Peak: 1106 cd

Power: 14.6 W

PF: 0.99



Beam angle

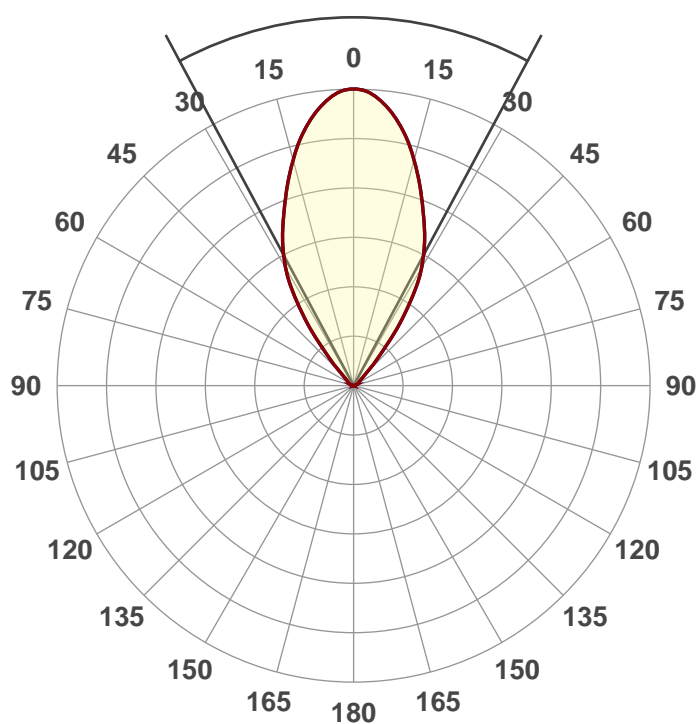
56.4°

Product name:

NU3-QD-XTM19-10LM-30K-98-S55-120-Dim10-RET-WH-WH

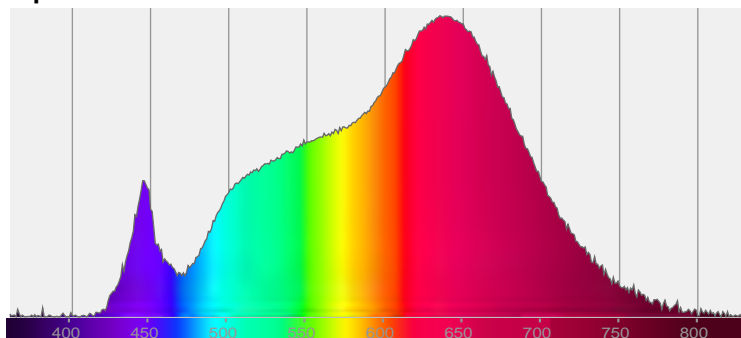
Date and time:

12/4/2017 11:17:16 AM

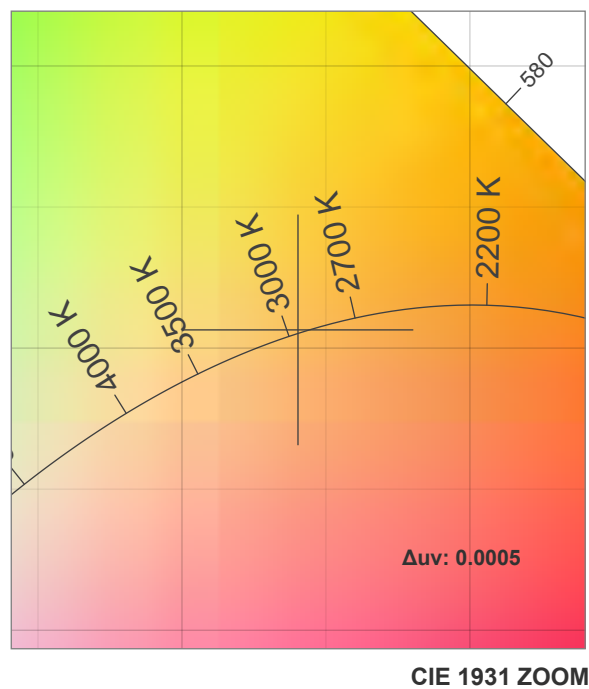
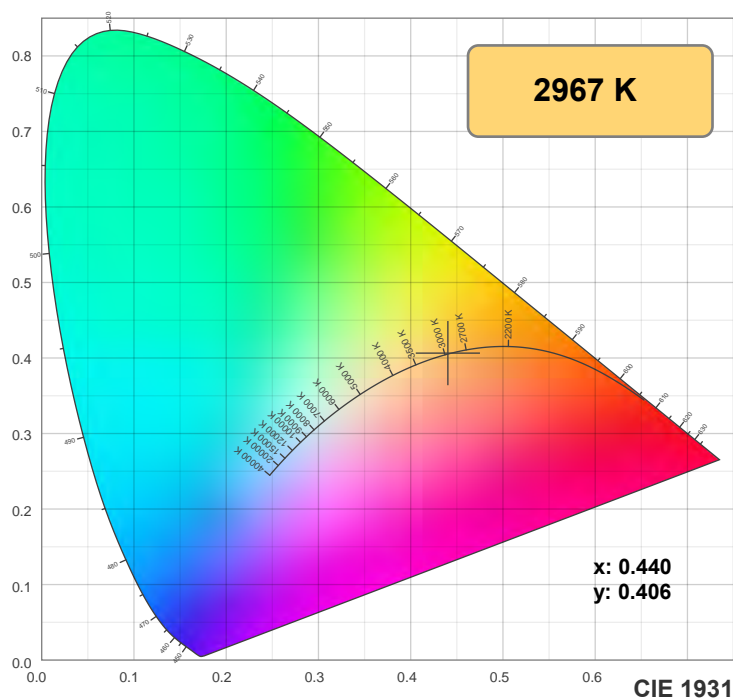


CIE 1931  
x: 0.440  
y: 0.406

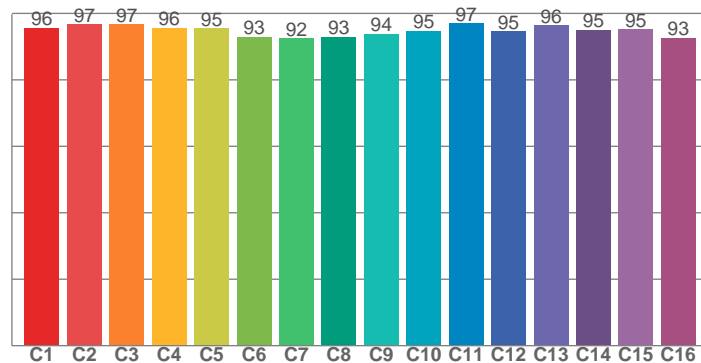
Spectra



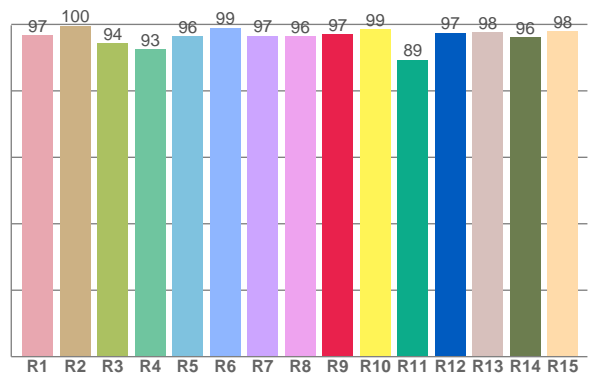
## Color details



**TM30: 95.0**



**CRI: 96.4 (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  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96.8 | 99.6 | 94.4 | 92.5 | 96.3 | 99.0 | 96.5 | 96.5 | 97.0 | 98.5 | 89.3 | 97.5 | 97.6 | 96.1 | 97.9 |

**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  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95.6 | 96.8 | 96.7 | 95.6 | 95.5 | 92.9 | 92.4 | 92.9 | 93.8 | 94.7 | 97.0 | 94.5 | 96.4 | 95.1 | 95.1 | 92.7 |

## 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                             |
| 2967 K            | 96.4                  | 97.0          | 95.0           | 103.6       | 0.440                     | 0.406                     | 0.252            | 0.349            | 0.0005                          |

## TM30 details

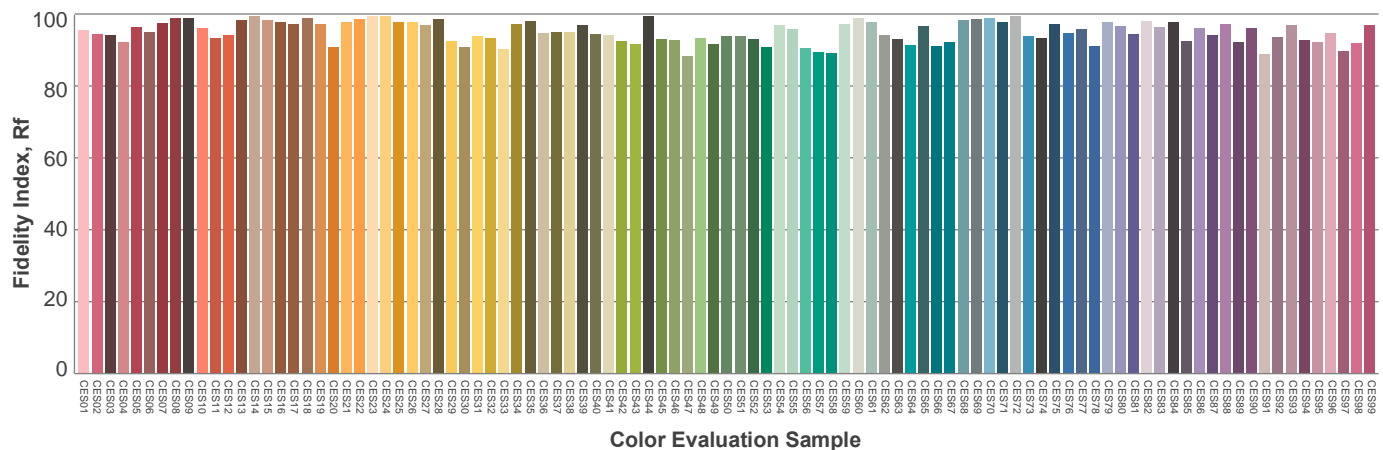
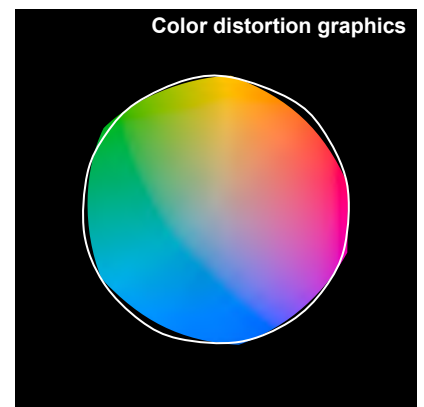
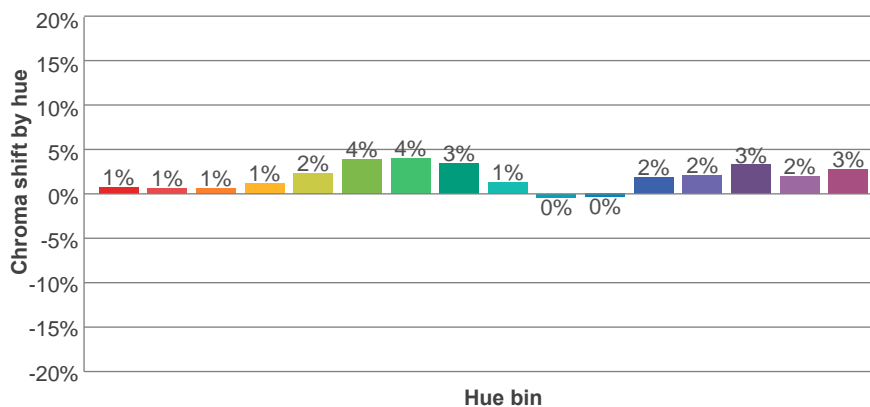
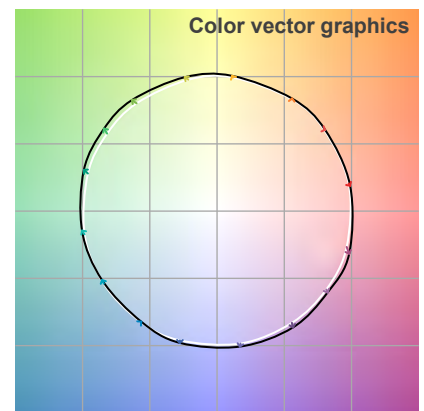
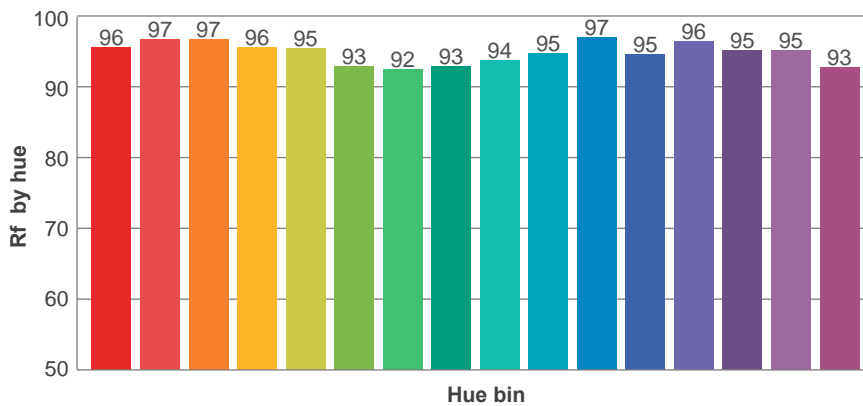
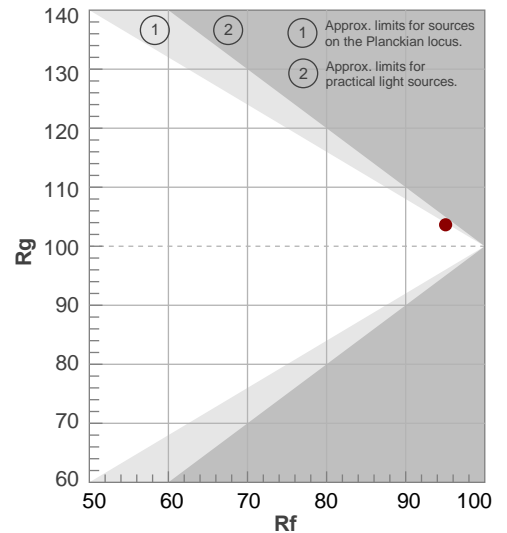
**Rf 95.0**

Fidelity index Rf

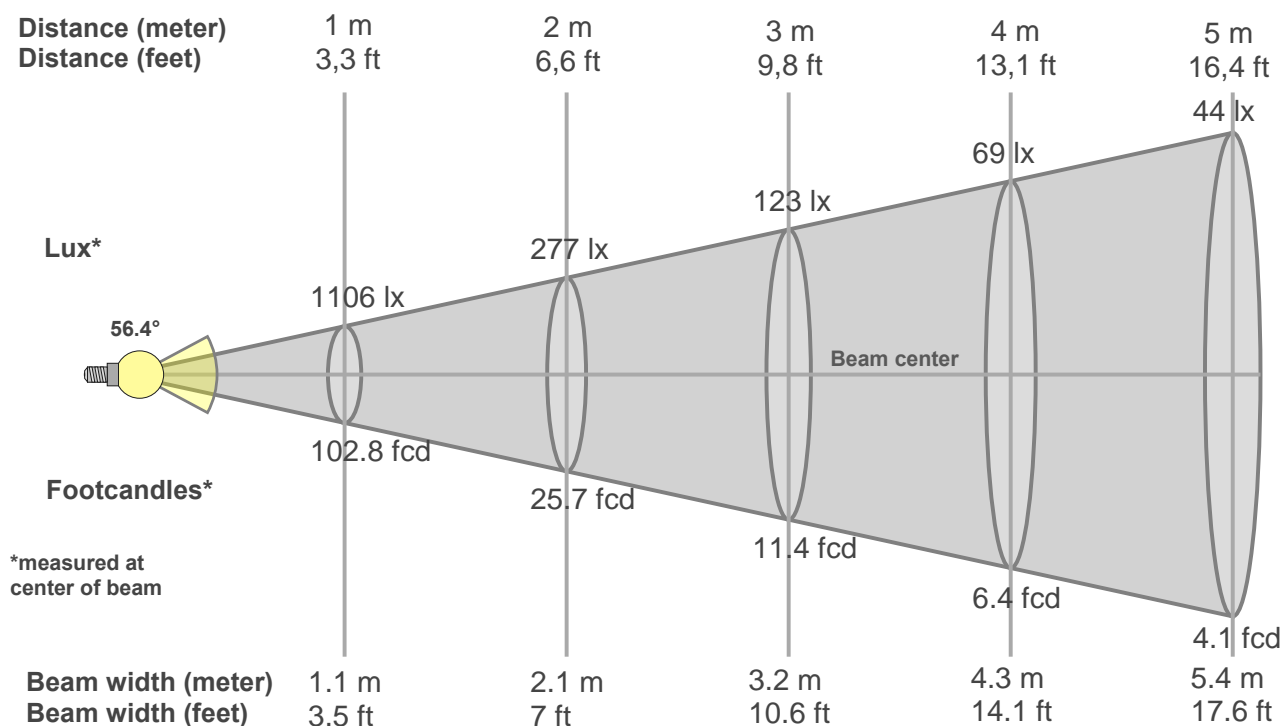
**Rg 103.6**

Gammut index Rg

| Hue Bin | Rf | Graphic shifts (%) |     |
|---------|----|--------------------|-----|
|         |    | Chroma             | Hue |
| 1       | 96 | 1%                 | -2% |
| 2       | 97 | 1%                 | -1% |
| 3       | 97 | 1%                 | 0%  |
| 4       | 96 | 1%                 | 1%  |
| 5       | 95 | 2%                 | 2%  |
| 6       | 93 | 4%                 | 2%  |
| 7       | 92 | 4%                 | -2% |
| 8       | 93 | 3%                 | -2% |
| 9       | 94 | 1%                 | -3% |
| 10      | 95 | 0%                 | -3% |
| 11      | 97 | 0%                 | 0%  |
| 12      | 95 | 2%                 | 0%  |
| 13      | 96 | 2%                 | -1% |
| 14      | 95 | 3%                 | -1% |
| 15      | 95 | 2%                 | -1% |
| 16      | 93 | 3%                 | -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 |
| 1106lx   | 277lx   | 123lx   | 69lx   | 44lx   | 31lx   | 23lx   | 17lx   | 14lx   | 11lx   | 9lx    | 8lx    | 7lx    | 6lx    | 5lx    | 4lx    | 4lx    | 3lx    | 3lx    | 3lx    |
| 102.8fcd | 25.7fcd | 11.4fcd | 6.4fcd | 4.1fcd | 2.9fcd | 2.1fcd | 1.6fcd | 1.3fcd | 1fcd   | 0.8fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.5fcd | 0.4fcd | 0.4fcd | 0.3fcd | 0.3fcd | 0.3fcd |

### 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° |
|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1106 | 1106 | 1087 | 1062 | 1032 | 992 | 951 | 901 | 851 | 800 | 749 | 698 | 653 | 607 | 558 | 506 | 452 | 382 | 312 | 247 |
| 100% | 100% | 98%  | 96%  | 93%  | 90% | 86% | 81% | 77% | 72% | 68% | 63% | 59% | 55% | 50% | 46% | 41% | 35% | 28% | 22% |

### 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° |
|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1106 | 1106 | 1087 | 1062 | 1032 | 992 | 951 | 901 | 851 | 800 | 749 | 698 | 653 | 607 | 558 | 506 | 452 | 382 | 312 | 247 |
| 100% | 100% | 98%  | 96%  | 93%  | 90% | 86% | 81% | 77% | 72% | 68% | 63% | 59% | 55% | 50% | 46% | 41% | 35% | 28% | 22% |

### 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° |
|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1106 | 1106 | 1087 | 1062 | 1032 | 992 | 951 | 901 | 851 | 800 | 749 | 698 | 653 | 607 | 558 | 506 | 452 | 382 | 312 | 247 |
| 100% | 100% | 98%  | 96%  | 93%  | 90% | 86% | 81% | 77% | 72% | 68% | 63% | 59% | 55% | 50% | 46% | 41% | 35% | 28% | 22% |

### 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° |
|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1106 | 1106 | 1087 | 1062 | 1032 | 992 | 951 | 901 | 851 | 800 | 749 | 698 | 653 | 607 | 558 | 506 | 452 | 382 | 312 | 247 |
| 100% | 100% | 98%  | 96%  | 93%  | 90% | 86% | 81% | 77% | 72% | 68% | 63% | 59% | 55% | 50% | 46% | 41% | 35% | 28% | 22% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 56.4°          | 86°             | 109.8°            | 96.7%                        | 92.0%                       |