

Light efficiency:

**66 Lumen/Watt**

Light quality:

**CRI: 96.4**

Color temperature:

**2984 K**

**Output: 967 lm**

**Peak: 1121 cd**

**Power: 14.6 W**

**PF: 0.99**



Beam angle

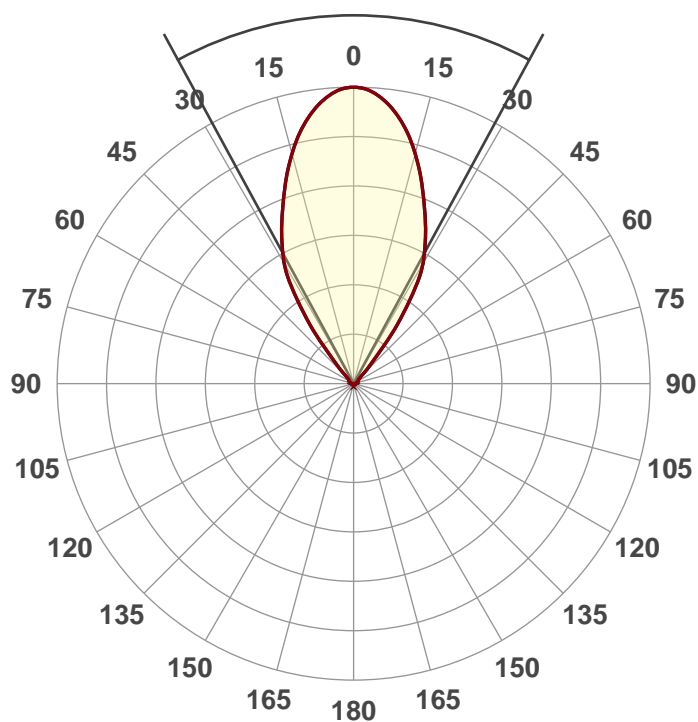
**57°**

Product name:

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

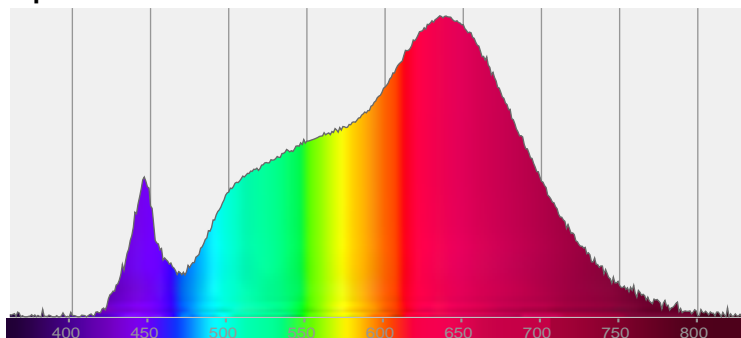
Date and time:

**12/4/2017 11:32:03 AM**

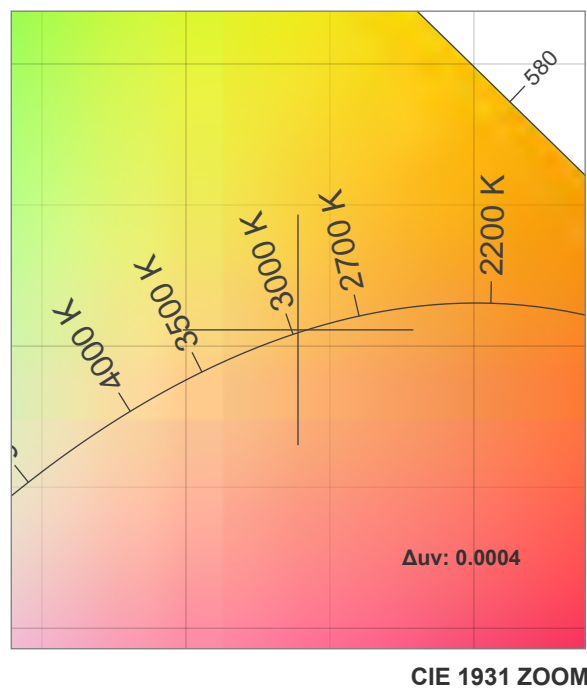
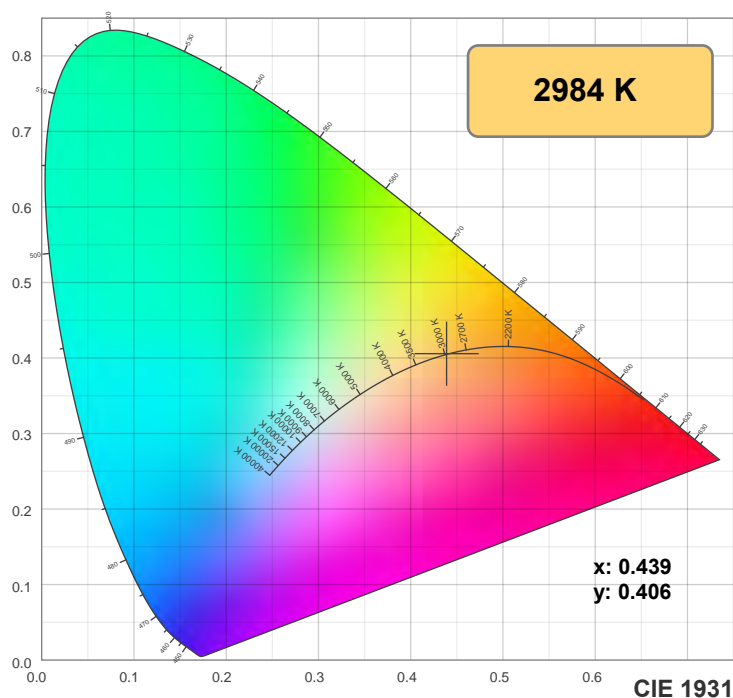


CIE 1931  
x: 0.439  
y: 0.406

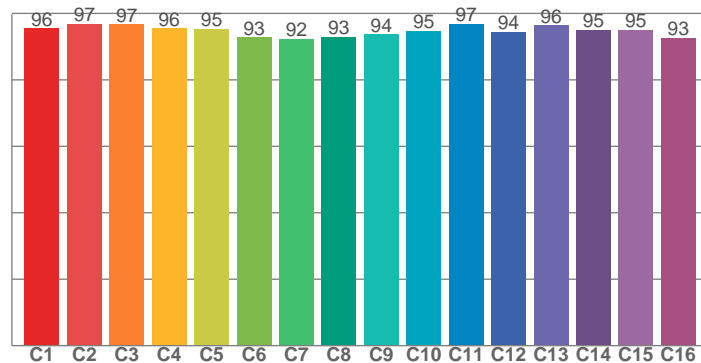
Spectra



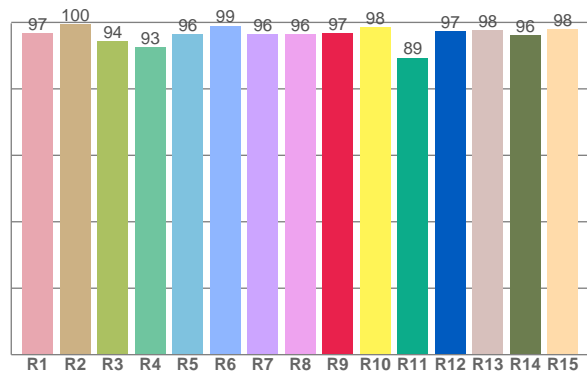
## Color details



**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 | 99.5 | 94.4 | 92.5 | 96.4 | 99.0 | 96.5 | 96.4 | 96.8 | 98.4 | 89.4 | 97.4 | 97.7 | 96.1 | 97.8 |

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 | 95.5 | 95.3 | 92.8 | 92.3 | 92.9 | 93.7 | 94.8 | 96.9 | 94.5 | 96.4 | 95.0 | 95.0 | 92.6 |

## 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                             |
| 2984 K            | 96.4                  | 96.8          | 95.0           | 103.7       | 0.439                     | 0.406                     | 0.251            | 0.348            | 0.0004                          |

## TM30 details

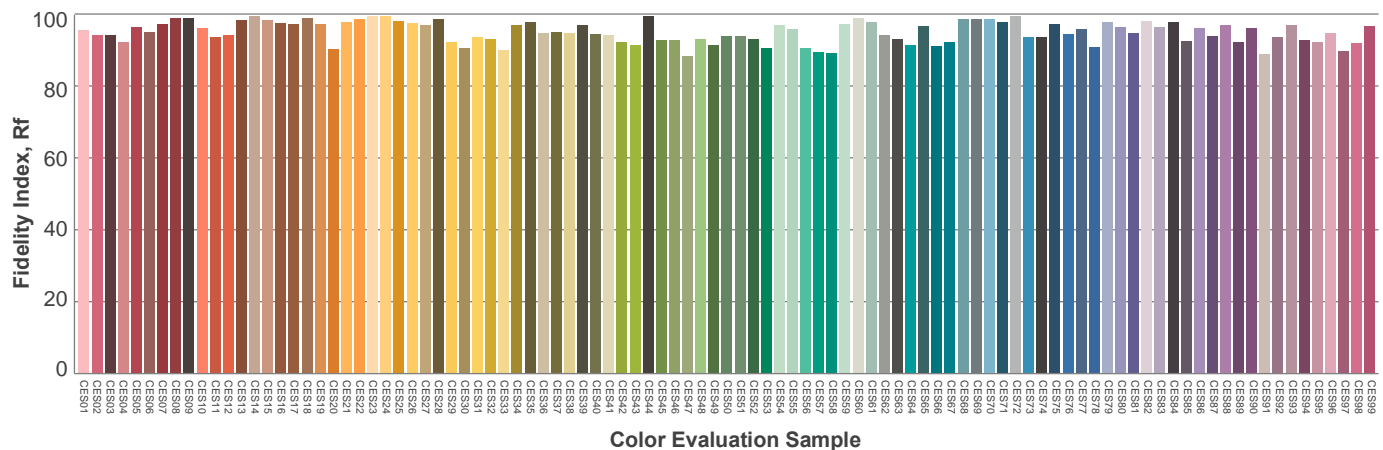
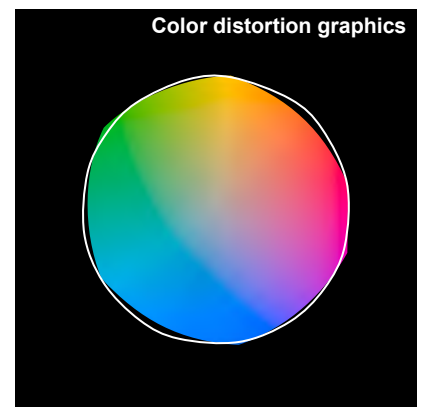
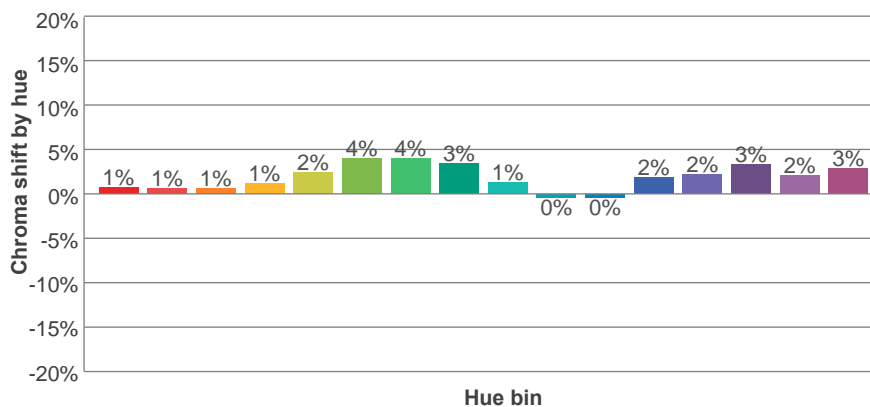
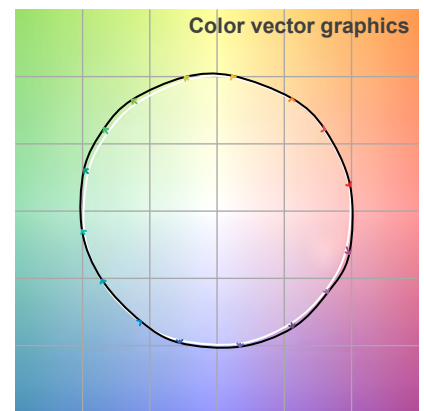
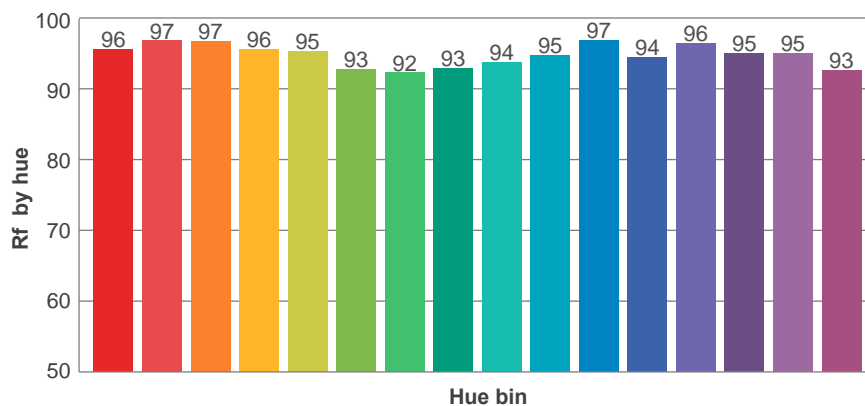
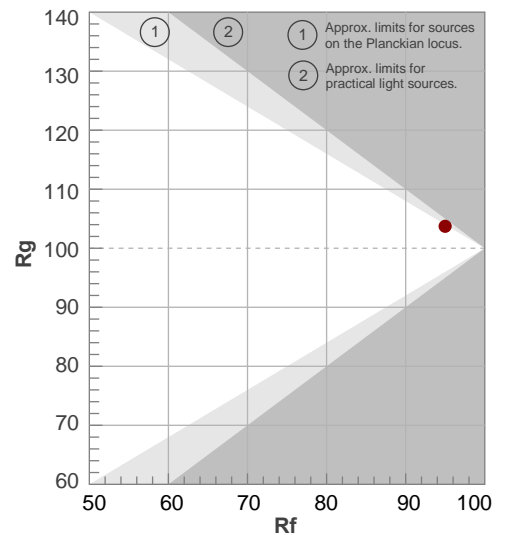
**Rf 95.0**

Fidelity index Rf

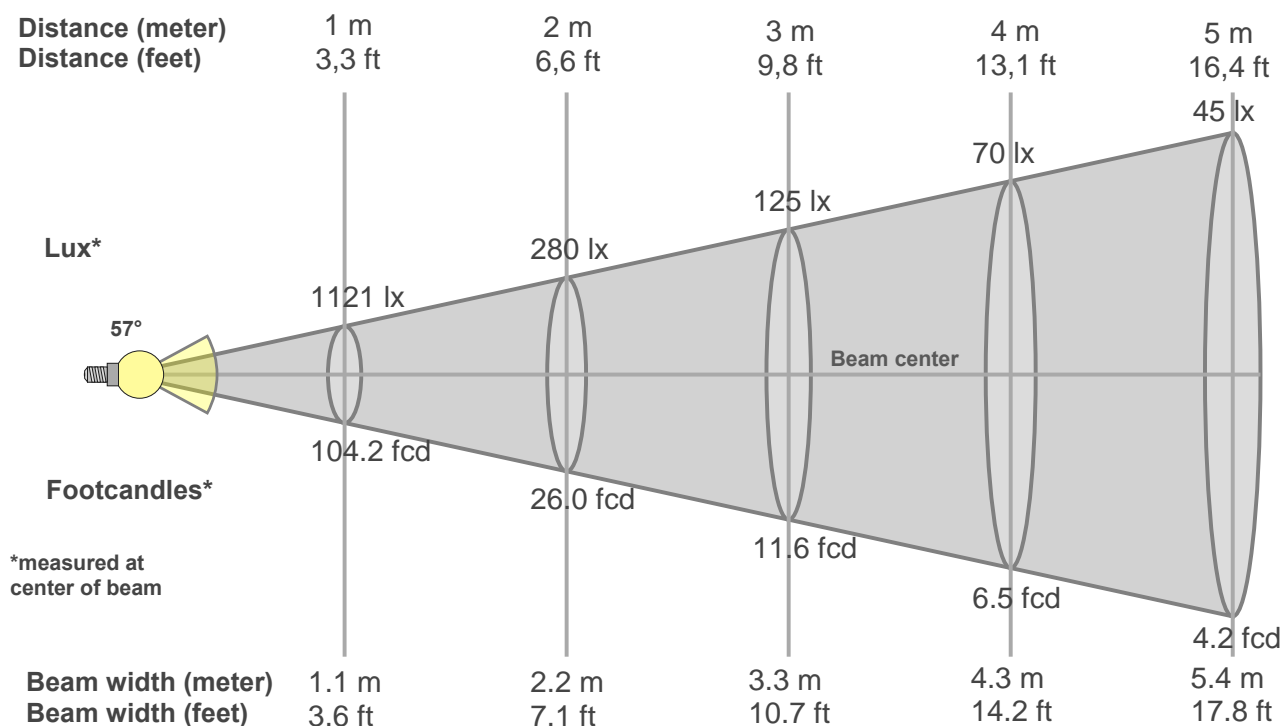
**Rg 103.7**

Gammut index Rg

| Hue Bin | R <sub>f</sub> | 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      | 94             | 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 |
| 1121lx   | 280lx | 125lx   | 70lx   | 45lx   | 31lx   | 23lx   | 18lx   | 14lx   | 11lx   | 9lx    | 8lx    | 7lx    | 6lx    | 5lx    | 4lx    | 4lx    | 3lx    | 3lx    | 3lx    |
| 104.2fcd | 26fcd | 11.6fcd | 6.5fcd | 4.2fcd | 2.9fcd | 2.1fcd | 1.6fcd | 1.3fcd | 1fcd   | 0.9fcd | 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° |
|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1121 | 1121 | 1104 | 1082 | 1054 | 1016 | 978 | 929 | 878 | 827 | 773 | 720 | 672 | 624 | 573 | 521 | 464 | 382 | 300 | 224 |
| 100% | 100% | 98%  | 96%  | 94%  | 91%  | 87% | 83% | 78% | 74% | 69% | 64% | 60% | 56% | 51% | 46% | 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° |
|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1121 | 1121 | 1104 | 1082 | 1054 | 1016 | 978 | 929 | 878 | 827 | 773 | 720 | 672 | 624 | 573 | 521 | 464 | 382 | 300 | 224 |
| 100% | 100% | 98%  | 96%  | 94%  | 91%  | 87% | 83% | 78% | 74% | 69% | 64% | 60% | 56% | 51% | 46% | 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° |
|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1121 | 1121 | 1104 | 1082 | 1054 | 1016 | 978 | 929 | 878 | 827 | 773 | 720 | 672 | 624 | 573 | 521 | 464 | 382 | 300 | 224 |
| 100% | 100% | 98%  | 96%  | 94%  | 91%  | 87% | 83% | 78% | 74% | 69% | 64% | 60% | 56% | 51% | 46% | 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° |
|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1121 | 1121 | 1104 | 1082 | 1054 | 1016 | 978 | 929 | 878 | 827 | 773 | 720 | 672 | 624 | 573 | 521 | 464 | 382 | 300 | 224 |
| 100% | 100% | 98%  | 96%  | 94%  | 91%  | 87% | 83% | 78% | 74% | 69% | 64% | 60% | 56% | 51% | 46% | 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°            | 82.1°           | 99.2°             | 95.6%                        | 92.2%                       |