

Light efficiency:

61 Lumen/Watt

Light quality:

CRI: 96.8

Color temperature:

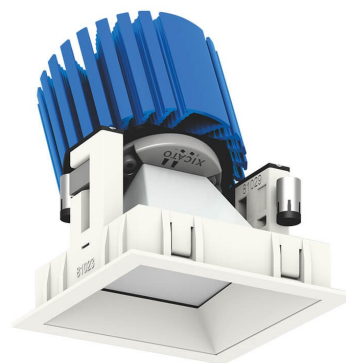
2965 K

Output: 903 lm

Peak: 567 cd

Power: 14.9 W

PF: 0.99



Beam angle

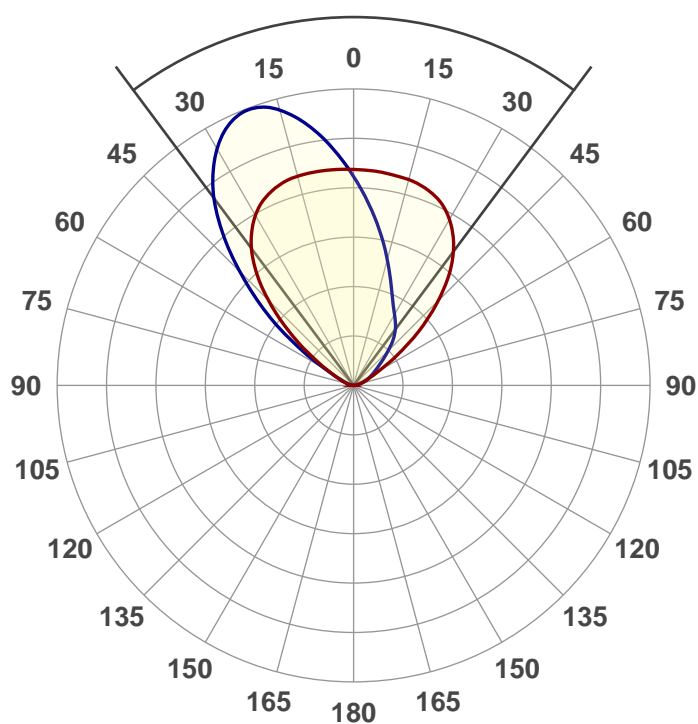
73.4°

Product name:

NU3-QW-XTM19-10LM-30K-98-WW-120-DIM10-NC-WH-WH

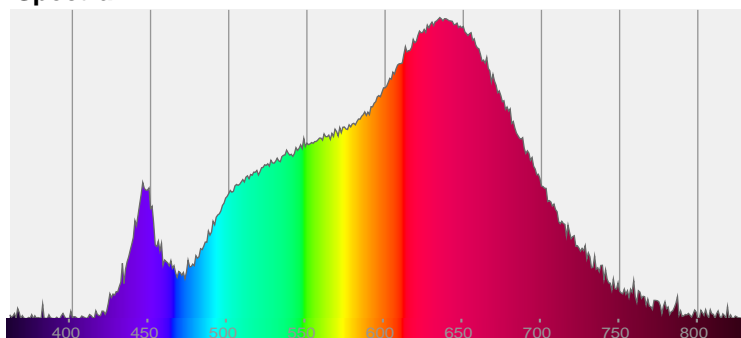
Date and time:

12/28/2017 7:45:08 AM

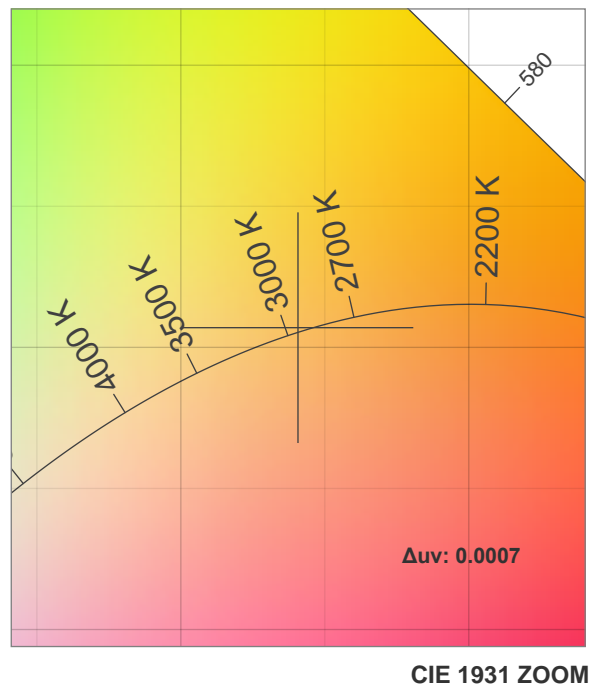
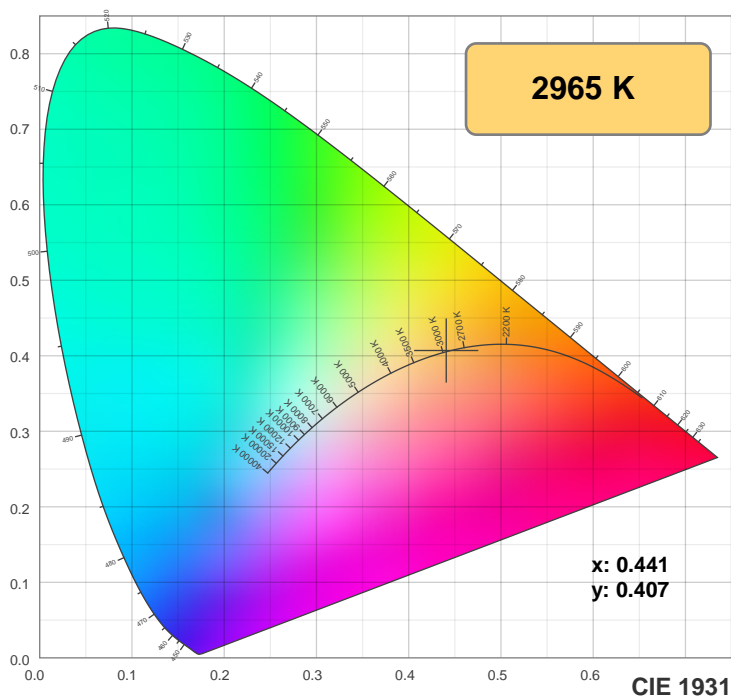


CIE 1931
x: 0.441
y: 0.407

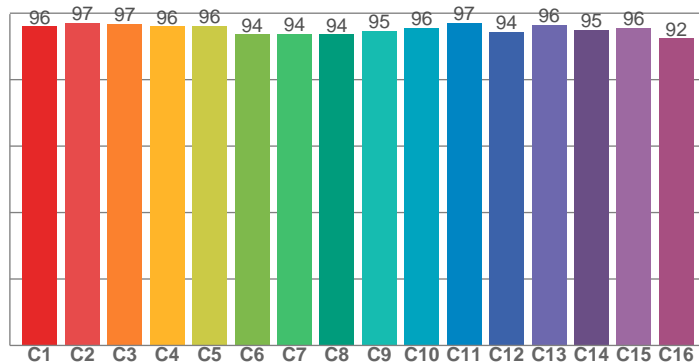
Spectra



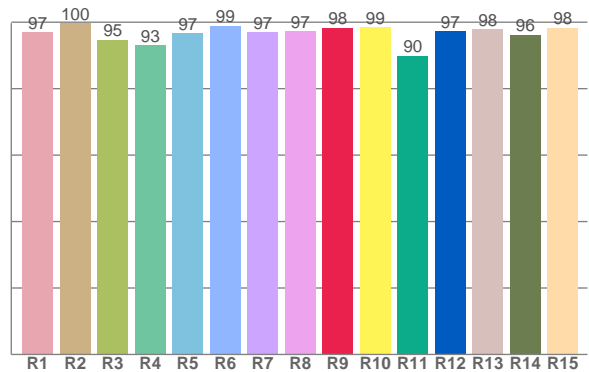
Color details



TM30: 95.5



CRI: 96.8 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97.0 | 99.6 | 94.7 | 93.1 | 96.7 | 98.9 | 97.1 | 97.2 | 98.3 | 98.5 | 89.9 | 97.2 | 97.8 | 96.3 | 98.4 |

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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96.1 | 97.0 | 96.8 | 96.1 | 96.2 | 93.6 | 93.7 | 93.6 | 94.6 | 95.5 | 97.1 | 94.4 | 96.4 | 95.0 | 95.6 | 92.5 |

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 |
| 2965 K | 96.8 | 98.3 | 95.5 | 103.2 | 0.441 | 0.407 | 0.252 | 0.349 | 0.0007 |

TM30 details

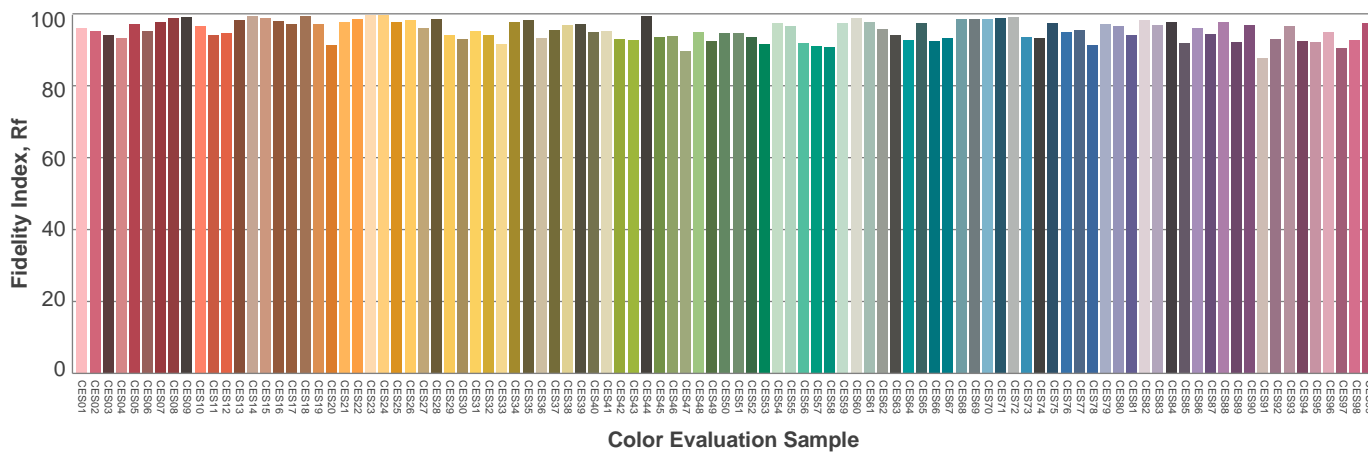
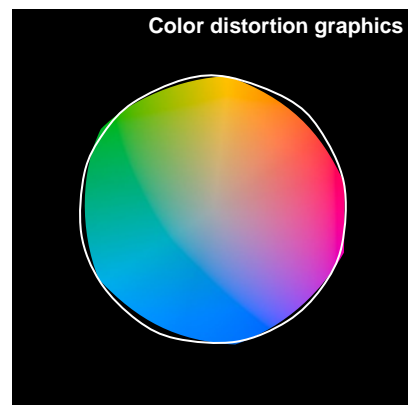
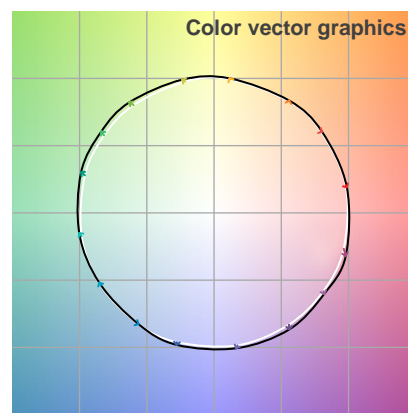
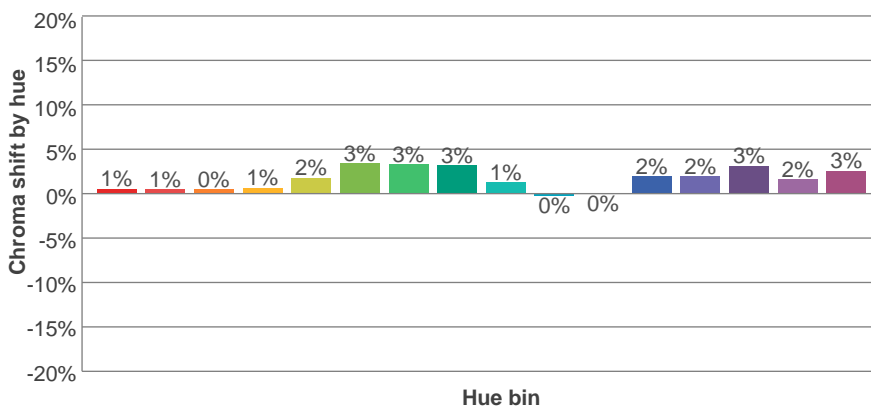
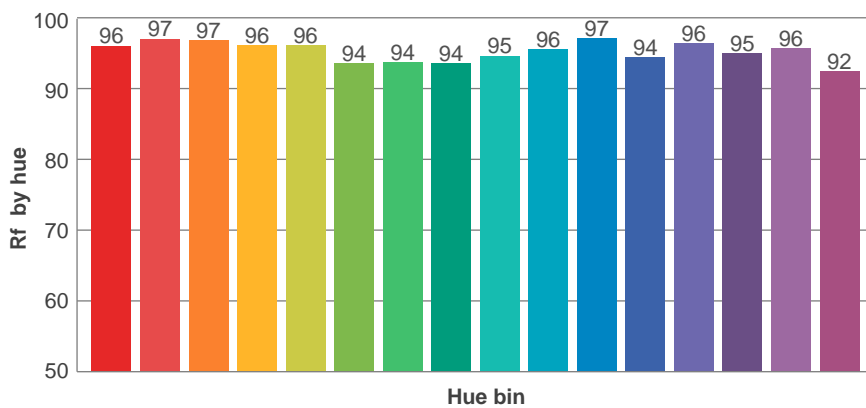
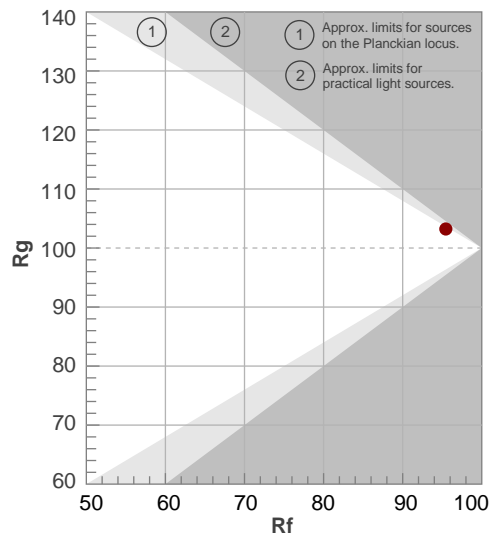
Rf 95.5

Fidelity index R_f

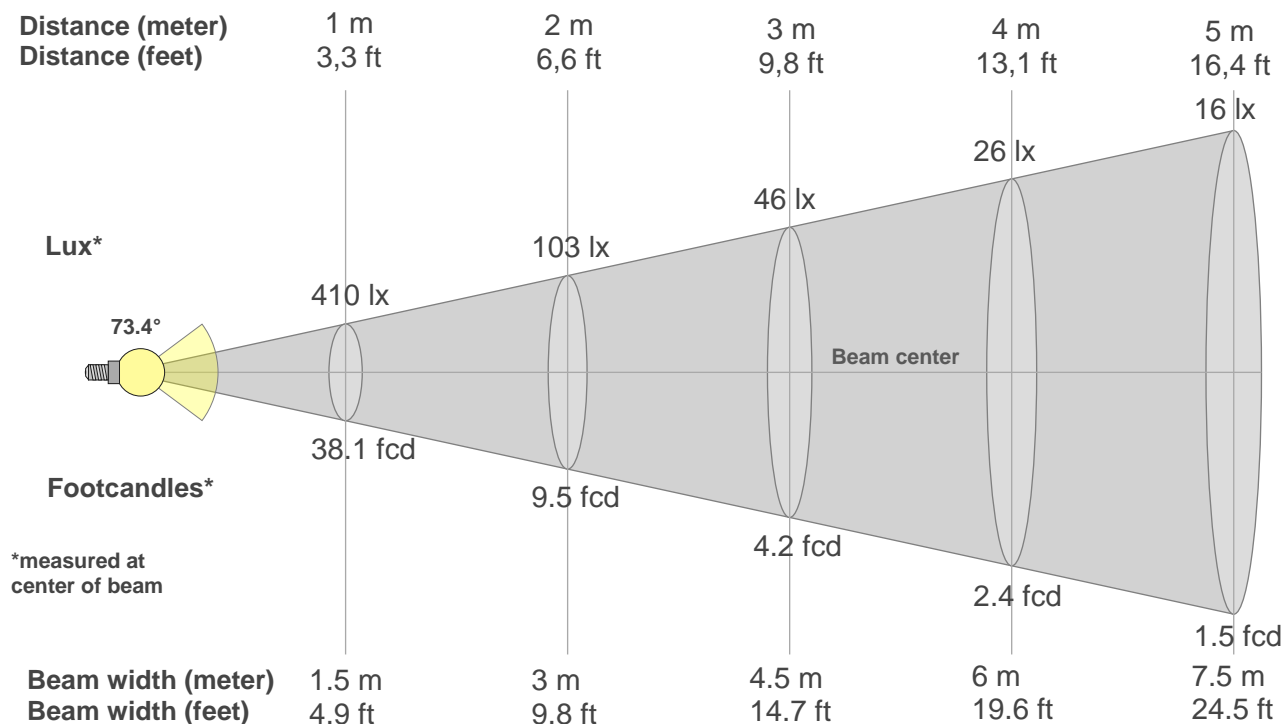
Rg 103.2

Gammut index Rg

| | | Graphic shifts (%) | |
|---------|-------|--------------------|-----|
| Hue Bin | R_i | Chroma | Hue |
| 1 | 96 | 1% | -2% |
| 2 | 97 | 1% | -1% |
| 3 | 97 | 0% | 0% |
| 4 | 96 | 1% | 1% |
| 5 | 96 | 2% | 2% |
| 6 | 94 | 3% | 2% |
| 7 | 94 | 3% | -1% |
| 8 | 94 | 3% | -2% |
| 9 | 95 | 1% | -3% |
| 10 | 96 | 0% | -2% |
| 11 | 97 | 0% | 0% |
| 12 | 94 | 2% | 0% |
| 13 | 96 | 2% | -1% |
| 14 | 95 | 3% | -2% |
| 15 | 96 | 2% | -1% |
| 16 | 92 | 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 |
| 410lx | 103lx | 46lx | 26lx | 16lx | 11lx | 8lx | 6lx | 5lx | 4lx | 3lx | 3lx | 2lx | 2lx | 2lx | 2lx | 1lx | 1lx | 1lx | 1lx |
| 38.1fcd | 9.5fcd | 4.2fcd | 2.4fcd | 1.5fcd | 1.1fcd | 0.8fcd | 0.6fcd | 0.5fcd | 0.4fcd | 0.3fcd | 0.3fcd | 0.2fcd | 0.2fcd | 0.2fcd | 0.2fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0.1fcd |

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° |
|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 410 | 417 | 417 | 416 | 411 | 399 | 377 | 342 | 294 | 232 | 164 | 103 | 58 | 34 | 21 | 12 | 5 | 3 | 0 | 0 |
| 100% | 102% | 102% | 102% | 100% | 97% | 92% | 83% | 72% | 56% | 40% | 25% | 14% | 8% | 5% | 3% | 1% | 1% | 0% | 0% |

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° |
|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 410 | 457 | 508 | 546 | 564 | 556 | 524 | 470 | 397 | 310 | 222 | 137 | 68 | 33 | 19 | 11 | 4 | 2 | 0 | 0 |
| 100% | 111% | 124% | 133% | 138% | 136% | 128% | 115% | 97% | 76% | 54% | 33% | 17% | 8% | 5% | 3% | 1% | 0% | 0% | 0% |

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° |
|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 410 | 415 | 413 | 410 | 404 | 391 | 368 | 335 | 289 | 230 | 167 | 105 | 58 | 34 | 22 | 13 | 6 | 3 | 1 | 0 |
| 100% | 101% | 101% | 100% | 98% | 95% | 90% | 82% | 70% | 56% | 41% | 26% | 14% | 8% | 5% | 3% | 1% | 1% | 0% | 0% |

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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 410 | 349 | 298 | 251 | 211 | 180 | 158 | 140 | 120 | 94 | 70 | 53 | 41 | 31 | 23 | 14 | 6 | 2 | 1 | 0 |
| 100% | 85% | 73% | 61% | 51% | 44% | 39% | 34% | 29% | 23% | 17% | 13% | 10% | 8% | 6% | 3% | 1% | 1% | 0% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 73.4° | 122.2° | 149.3° | 93.1% | 70.8% |