

Light efficiency:

69 Lumen/Watt

Light quality:

CRI: 82.7

Color temperature:

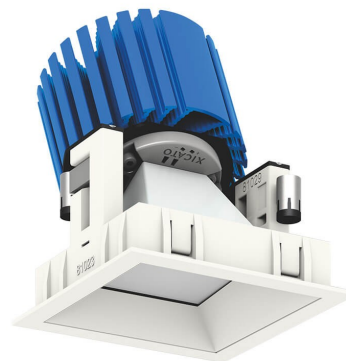
2935 K

Output: 1350 lm

Peak: 917 cd

Power: 19.4 W

PF: 0.99



Beam angle

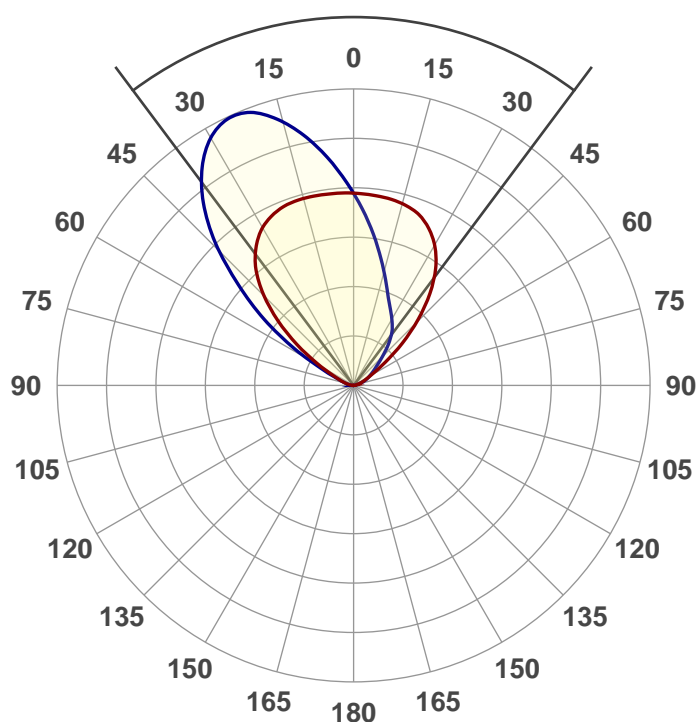
73.6°

Product name:

NU3-QW-XTM19-20LM-30K-83-WW-120-DIM10-NC-WH-WH

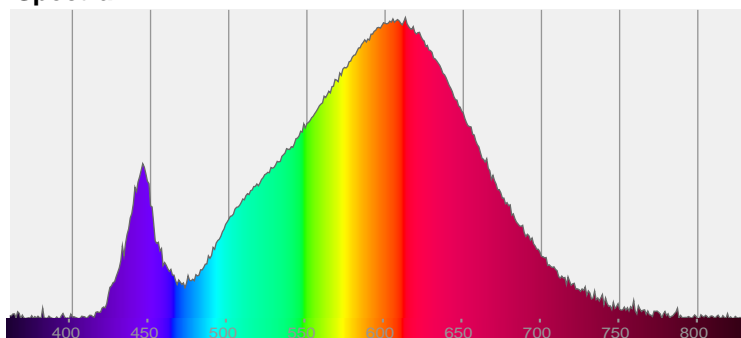
Date and time:

12/27/2017 7:38:39 AM

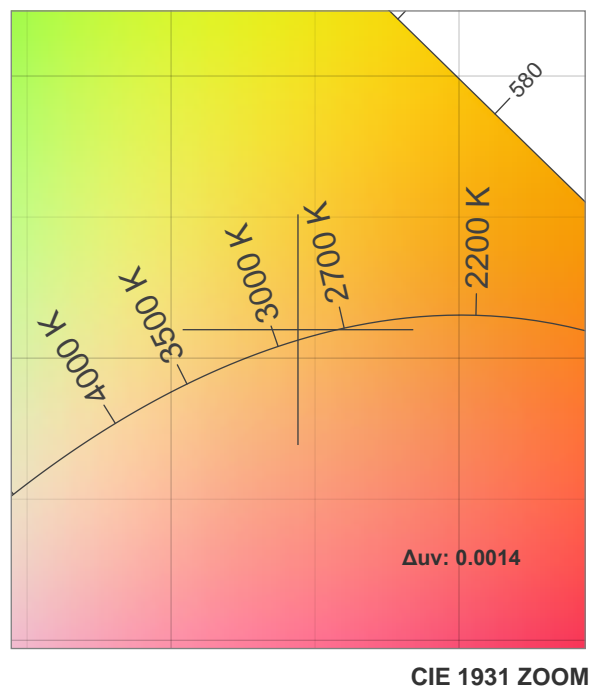
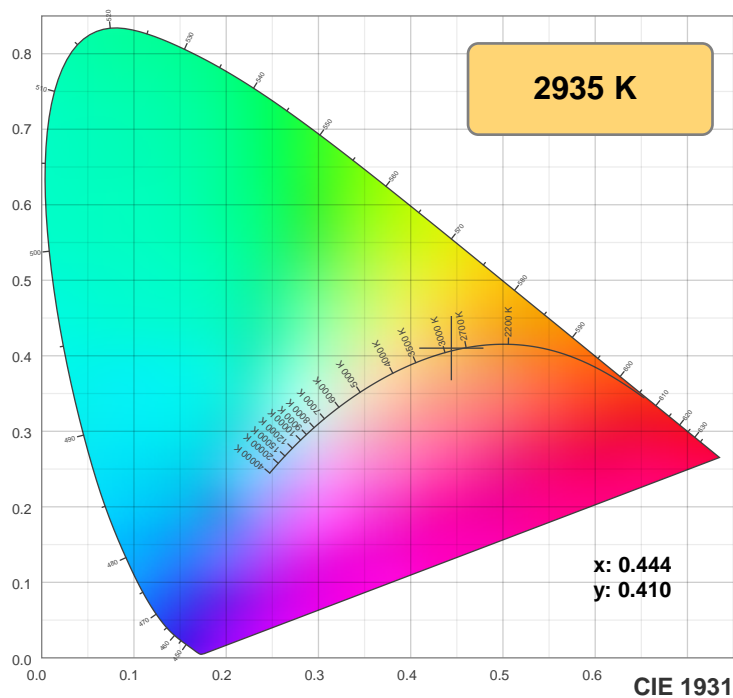


CIE 1931
x: 0.444
y: 0.410

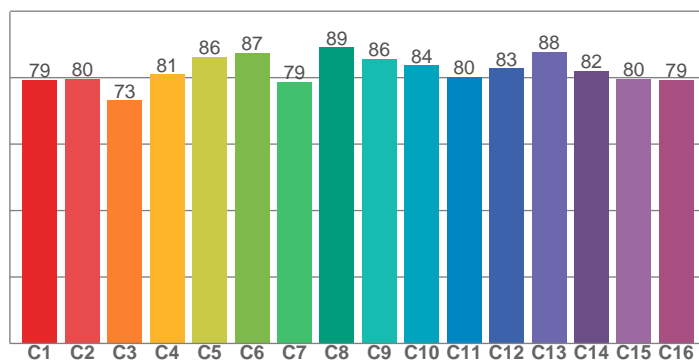
Spectra



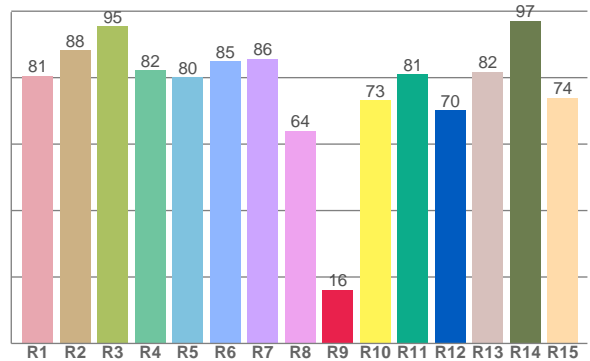
Color details



TM30: 82.1



CRI: 82.7 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.6 | 88.2 | 95.4 | 82.3 | 80.2 | 84.9 | 85.7 | 64.0 | 16.2 | 73.2 | 81.1 | 70.2 | 81.8 | 97.1 | 74.0 |

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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.3 | 79.6 | 73.1 | 81.0 | 86.3 | 87.5 | 78.7 | 89.1 | 85.7 | 83.8 | 80.3 | 82.8 | 87.8 | 82.1 | 79.7 | 79.3 |

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 |
| 2935 K | 82.7 | 16.2 | 82.1 | 98.5 | 0.444 | 0.410 | 0.253 | 0.350 | 0.0014 |

TM30 details

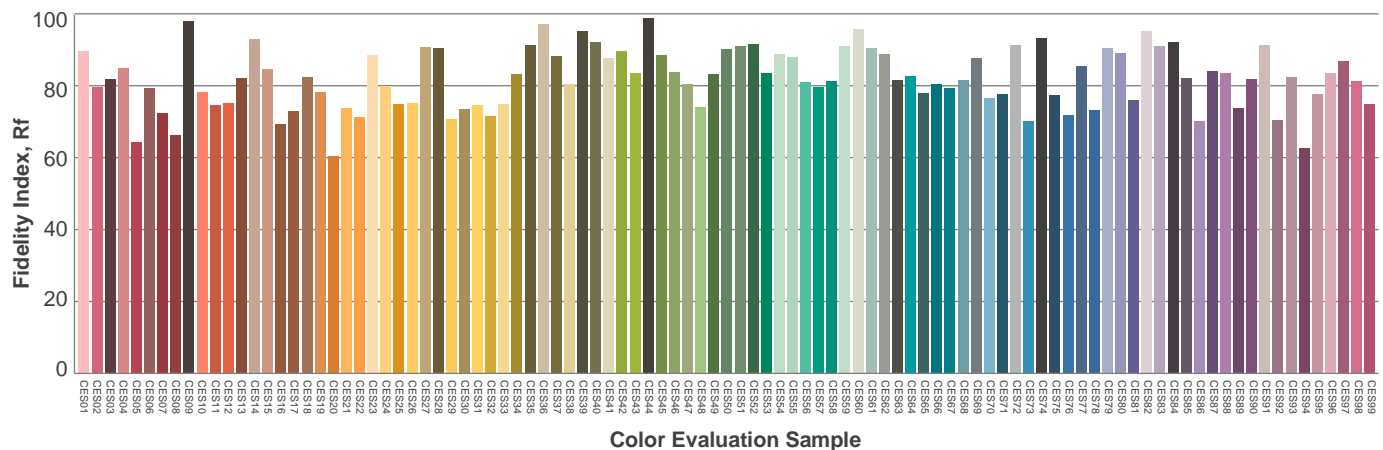
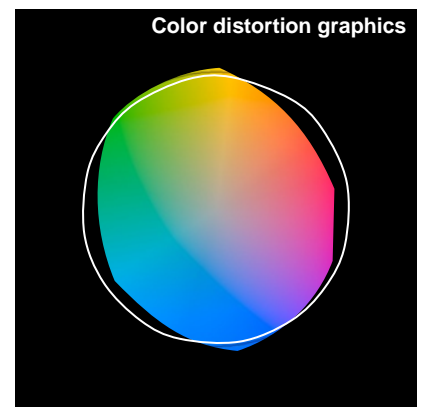
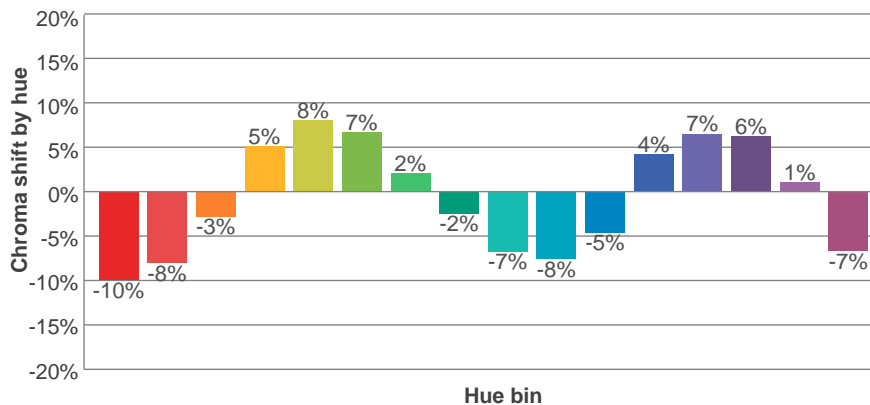
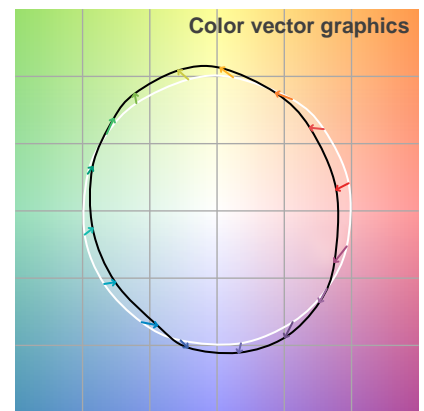
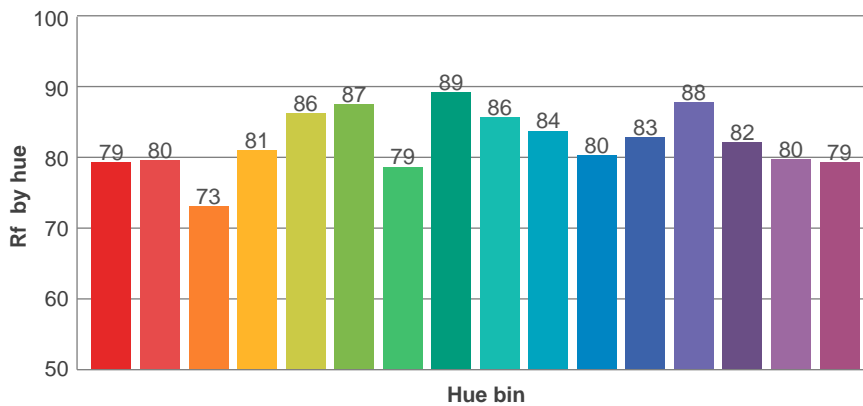
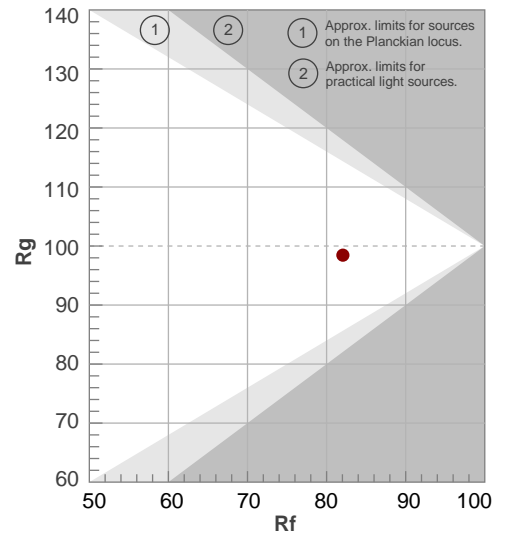
Rf 82.1

Fidelity index Rf

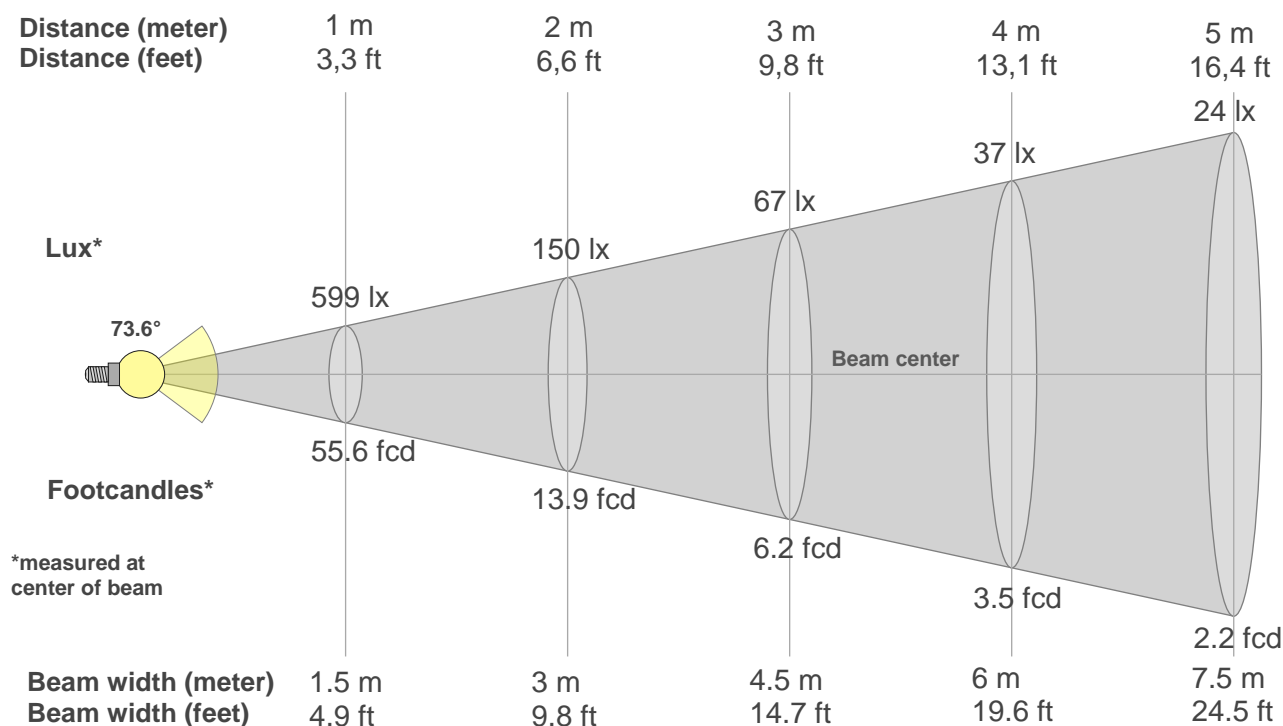
Rg 98.5

Gammut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 79 | -10% | -3% |
| 2 | 80 | -8% | 7% |
| 3 | 73 | -3% | 13% |
| 4 | 81 | 5% | 11% |
| 5 | 86 | 8% | 6% |
| 6 | 87 | 7% | -3% |
| 7 | 79 | 2% | -12% |
| 8 | 89 | -2% | -6% |
| 9 | 86 | -7% | -3% |
| 10 | 84 | -8% | 4% |
| 11 | 80 | -5% | 11% |
| 12 | 83 | 4% | 6% |
| 13 | 88 | 7% | -3% |
| 14 | 82 | 6% | -11% |
| 15 | 80 | 1% | -11% |
| 16 | 79 | -7% | -13% |



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 |
| 599lx | 150lx | 67lx | 37lx | 24lx | 17lx | 12lx | 9lx | 7lx | 6lx | 5lx | 4lx | 4lx | 3lx | 3lx | 2lx | 2lx | 2lx | 2lx | 1lx |
| 55.6fcd | 13.9fcd | 6.2fcd | 3.5fcd | 2.2fcd | 1.5fcd | 1.1fcd | 0.9fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.4fcd | 0.3fcd | 0.3fcd | 0.2fcd | 0.2fcd | 0.2fcd | 0.2fcd | 0.2fcd | 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° |
|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 599 | 600 | 602 | 602 | 599 | 588 | 566 | 528 | 473 | 394 | 300 | 203 | 120 | 67 | 41 | 25 | 14 | 6 | 3 | 0 |
| 100% | 100% | 101% | 101% | 100% | 98% | 95% | 88% | 79% | 66% | 50% | 34% | 20% | 11% | 7% | 4% | 2% | 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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 599 | 686 | 773 | 848 | 902 | 917 | 889 | 822 | 722 | 592 | 445 | 305 | 174 | 82 | 42 | 24 | 13 | 5 | 1 | 0 |
| 100% | 115% | 129% | 142% | 151% | 153% | 149% | 137% | 121% | 99% | 74% | 51% | 29% | 14% | 7% | 4% | 2% | 1% | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 599 | 596 | 592 | 585 | 572 | 545 | 504 | 446 | 367 | 276 | 186 | 109 | 62 | 39 | 25 | 11 | 5 | 2 | 0 | 0 |
| 100% | 100% | 99% | 98% | 96% | 91% | 84% | 74% | 61% | 46% | 31% | 18% | 10% | 7% | 4% | 2% | 1% | 0% | 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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 599 | 515 | 436 | 367 | 310 | 269 | 238 | 209 | 170 | 127 | 94 | 73 | 56 | 43 | 28 | 15 | 7 | 2 | 0 | 0 |
| 100% | 86% | 73% | 61% | 52% | 45% | 40% | 35% | 28% | 21% | 16% | 12% | 9% | 7% | 5% | 2% | 1% | 0% | 0% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 73.6° | 122.3° | 149.4° | 92.8% | 70.1% |