

Light efficiency:

76 Lumen/Watt

Light quality:

CRI: 82.2

Color temperature:

2906 K

Output: 1490 lm

Peak: 1283 cd

Power: 19.5 W

PF: 0.99



Beam angle

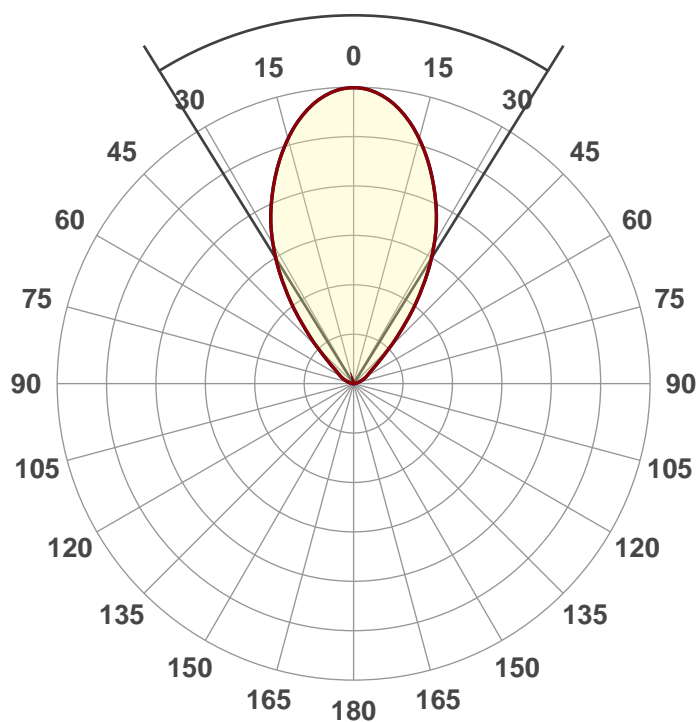
63.7°

Product name:

NU3-QD-XTM19-20LM-30K-83-HE60-120-Dim10-RET-WH-WH

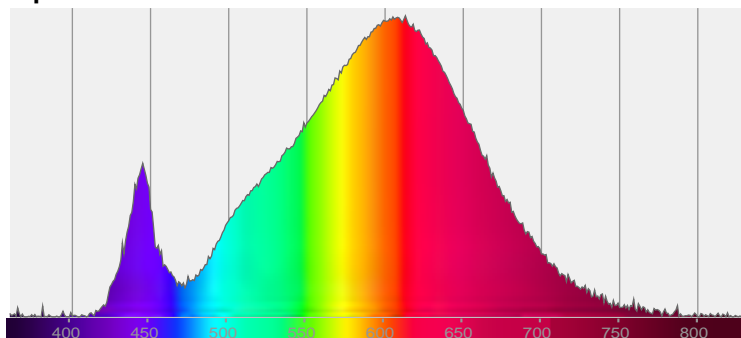
Date and time:

11/29/2017 12:48:17 PM

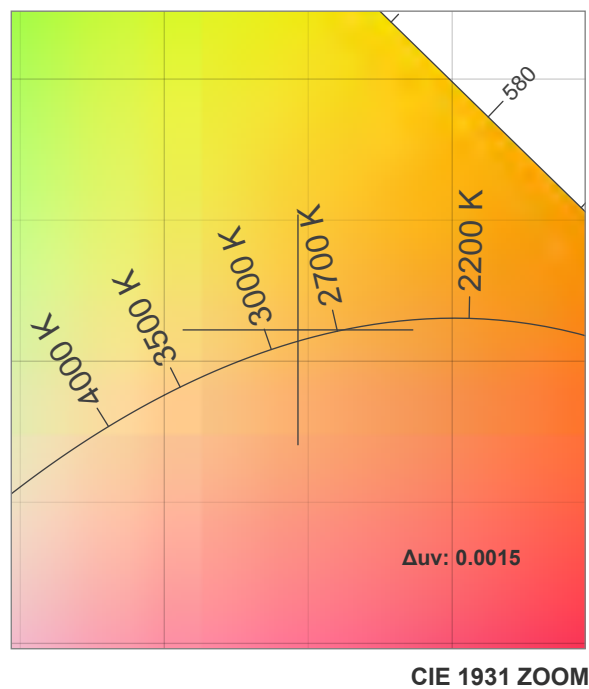
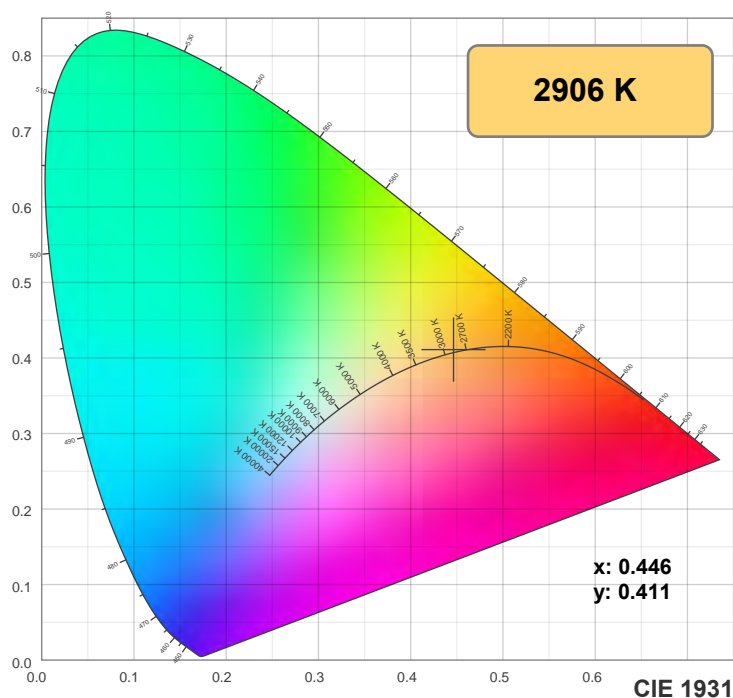


CIE 1931
x: 0.446
y: 0.411

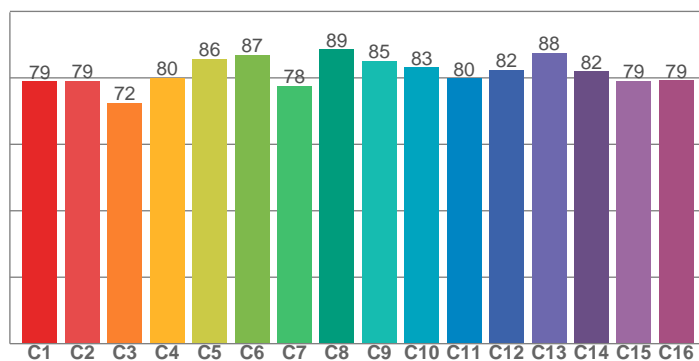
Spectra



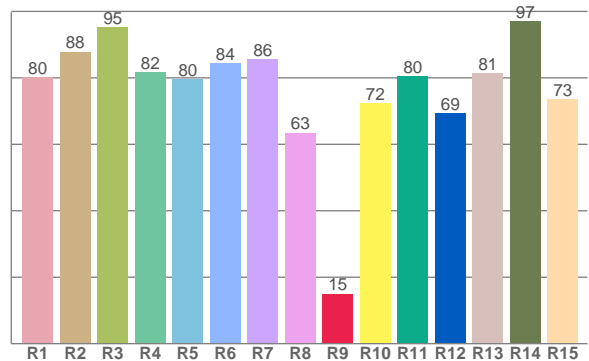
Color details



TM30: 81.5



CRI: 82.2 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.1 | 87.8 | 95.2 | 81.8 | 79.6 | 84.3 | 85.5 | 63.5 | 15.0 | 72.4 | 80.5 | 69.3 | 81.3 | 97.0 | 73.5 |

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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78.9 | 79.1 | 72.4 | 80.1 | 85.6 | 87.0 | 77.6 | 88.5 | 85.0 | 83.2 | 79.9 | 82.4 | 87.5 | 82.0 | 79.1 | 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 |
| 2906 K | 82.2 | 15.0 | 81.5 | 98.5 | 0.446 | 0.411 | 0.254 | 0.350 | 0.0015 |

TM30 details

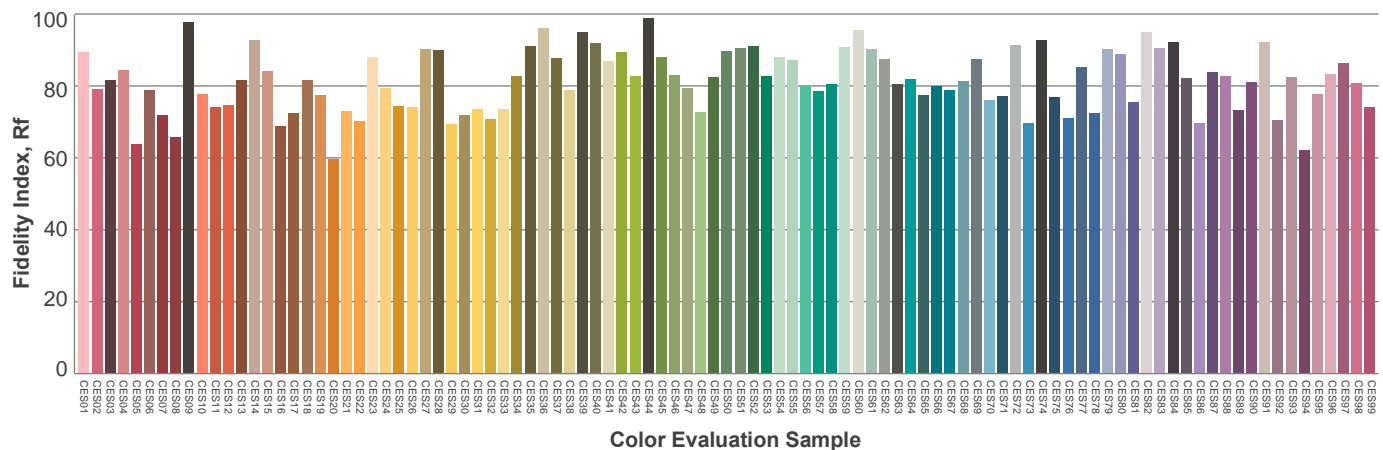
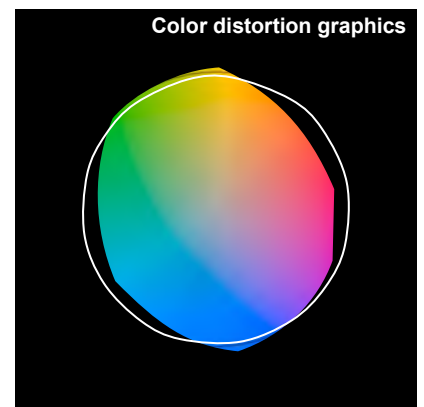
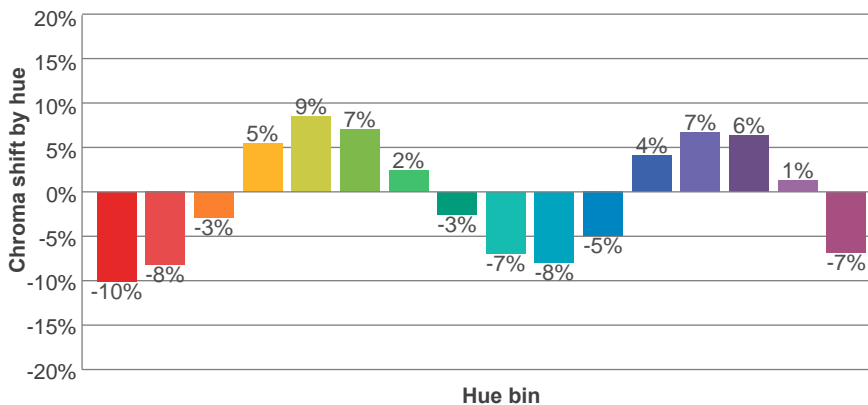
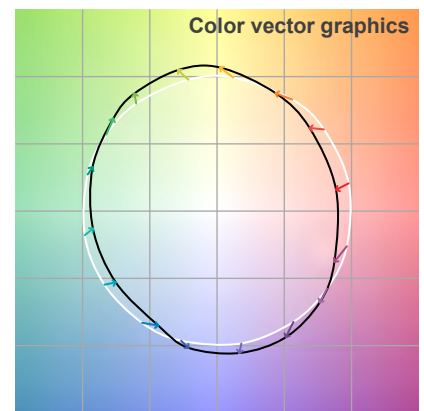
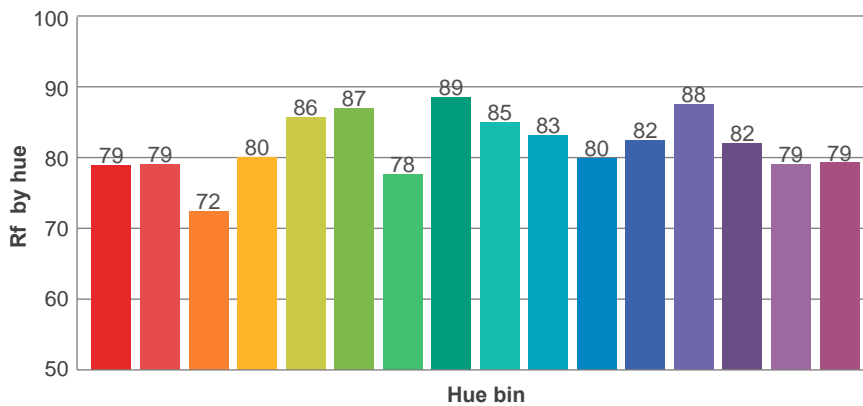
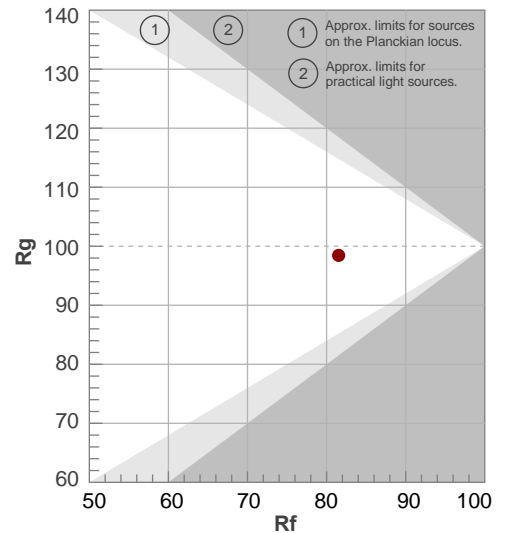
Rf 81.5

Fidelity index Rf

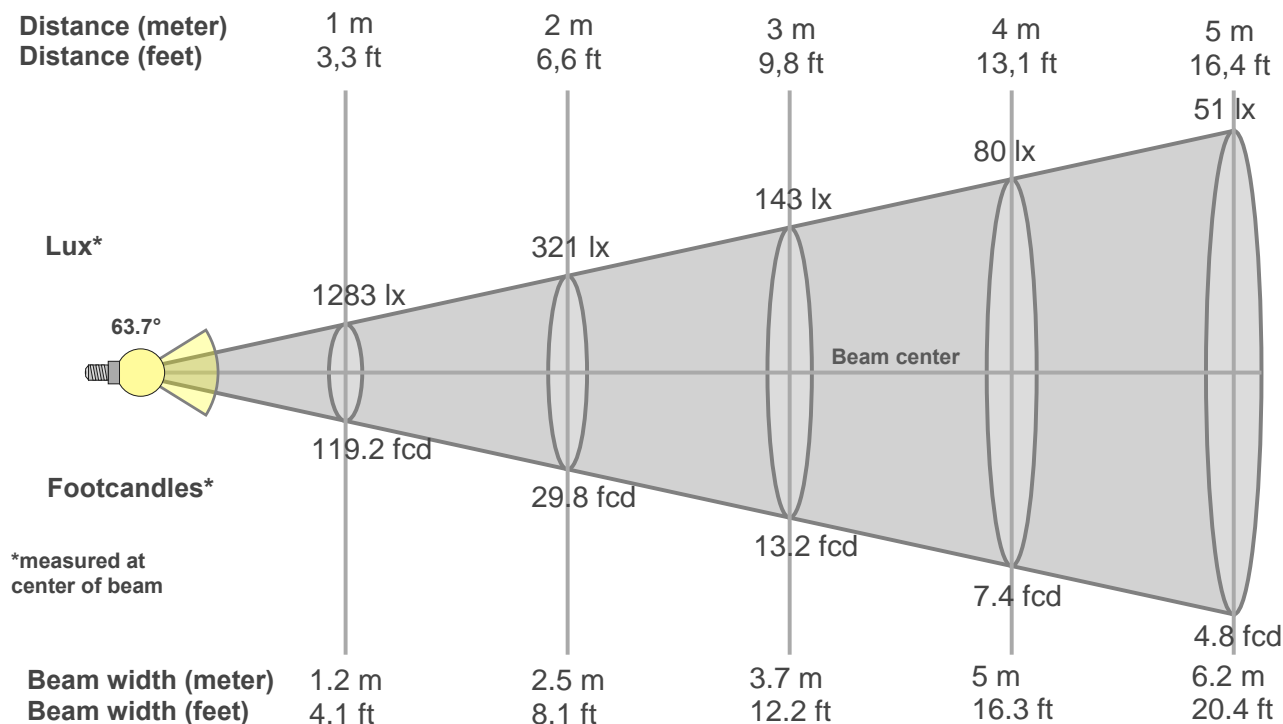
Rg 98.5

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 79 | -10% | -3% |
| 2 | 79 | -8% | 7% |
| 3 | 72 | -3% | 13% |
| 4 | 80 | 5% | 11% |
| 5 | 86 | 9% | 6% |
| 6 | 87 | 7% | -3% |
| 7 | 78 | 2% | -13% |
| 8 | 89 | -3% | -6% |
| 9 | 85 | -7% | -4% |
| 10 | 83 | -8% | 3% |
| 11 | 80 | -5% | 11% |
| 12 | 82 | 4% | 6% |
| 13 | 88 | 7% | -3% |
| 14 | 82 | 6% | -11% |
| 15 | 79 | 1% | -12% |
| 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 |
| 1283lx | 321lx | 143lx | 80lx | 51lx | 36lx | 26lx | 20lx | 16lx | 13lx | 11lx | 9lx | 8lx | 7lx | 6lx | 5lx | 4lx | 4lx | 4lx | 3lx |
| 119.2fcd | 29.8fcd | 13.2fcd | 7.4fcd | 4.8fcd | 3.3fcd | 2.4fcd | 1.9fcd | 1.5fcd | 1.2fcd | 1fcd | 0.8fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.5fcd | 0.4fcd | 0.4fcd | 0.3fcd | 0.3fcd |

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° |
|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1283 | 1261 | 1198 | 1101 | 981 | 848 | 700 | 536 | 370 | 229 | 136 | 90 | 67 | 50 | 34 | 21 | 11 | 5 | 1 | 1 |
| 100% | 98% | 93% | 86% | 76% | 66% | 55% | 42% | 29% | 18% | 11% | 7% | 5% | 4% | 3% | 2% | 1% | 0% | 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° |
|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1283 | 1261 | 1198 | 1101 | 981 | 848 | 700 | 536 | 370 | 229 | 136 | 90 | 67 | 50 | 34 | 21 | 11 | 5 | 1 | 1 |
| 100% | 98% | 93% | 86% | 76% | 66% | 55% | 42% | 29% | 18% | 11% | 7% | 5% | 4% | 3% | 2% | 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° |
|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1283 | 1261 | 1198 | 1101 | 981 | 848 | 700 | 536 | 370 | 229 | 136 | 90 | 67 | 50 | 34 | 21 | 11 | 5 | 1 | 1 |
| 100% | 98% | 93% | 86% | 76% | 66% | 55% | 42% | 29% | 18% | 11% | 7% | 5% | 4% | 3% | 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° |
|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1283 | 1261 | 1198 | 1101 | 981 | 848 | 700 | 536 | 370 | 229 | 136 | 90 | 67 | 50 | 34 | 21 | 11 | 5 | 1 | 1 |
| 100% | 98% | 93% | 86% | 76% | 66% | 55% | 42% | 29% | 18% | 11% | 7% | 5% | 4% | 3% | 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 |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 63.7° | 101.3° | 141.3° | 94.4% | 84.3% |