

Light efficiency:

83 Lumen/Watt

Light quality:

CRI: 82.5

Color temperature:

2936 K

Output: 1611 lm

Peak: 1805 cd

Power: 19.5 W

PF: 0.99



Beam angle

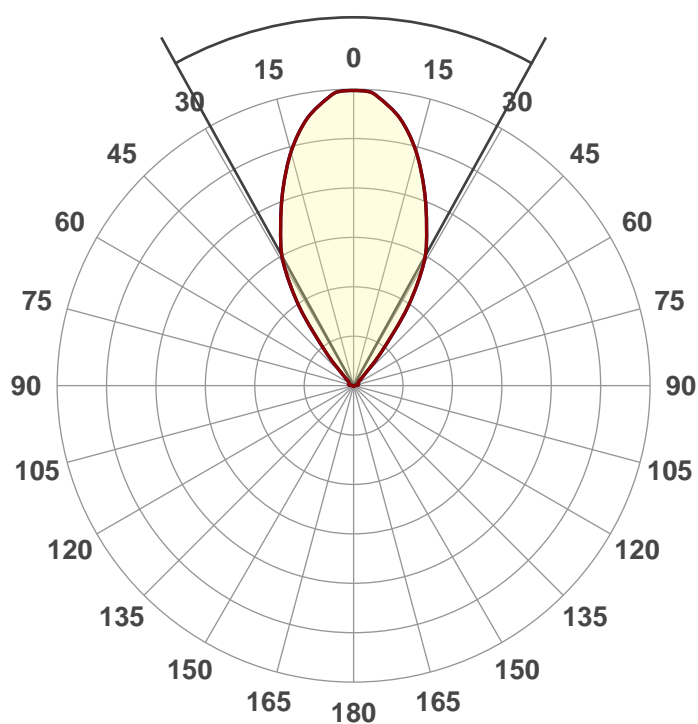
57.8°

Product name:

NU3-QDT-XTM19-20LM-30K-83-S55-
NL-120-Dim10-RET-WH-WH

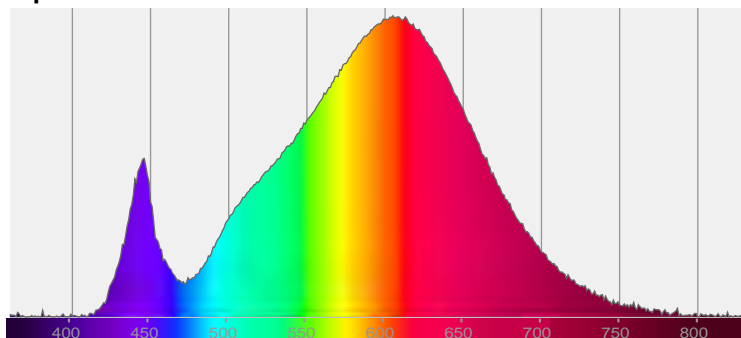
Date and time:

11/29/2017 1:02:42 PM

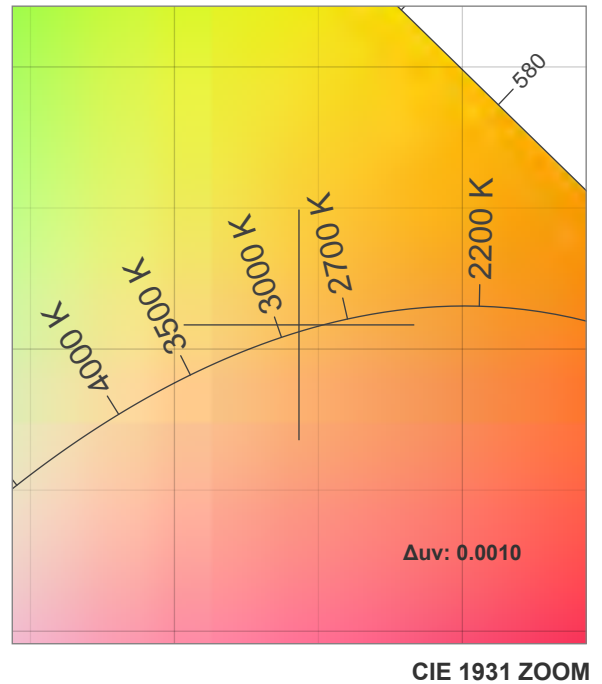
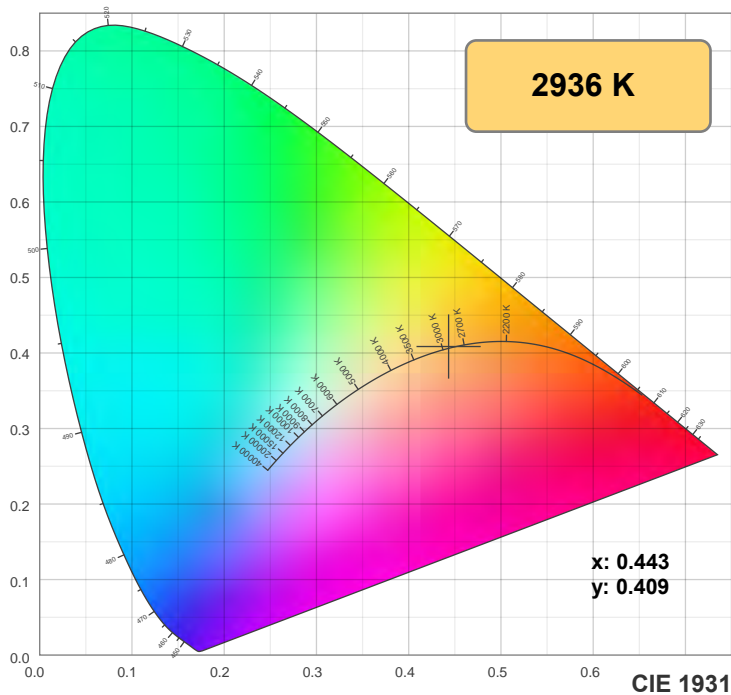


CIE 1931
x: 0.443
y: 0.409

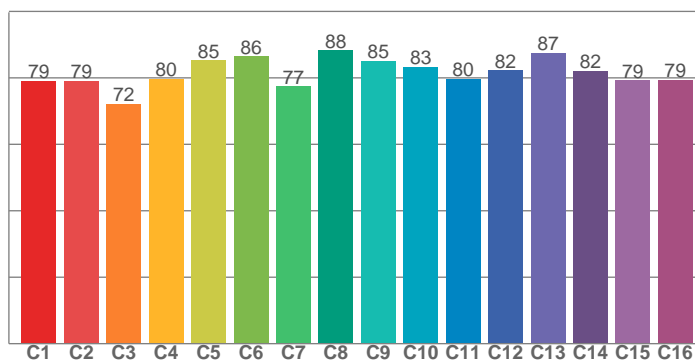
Spectra



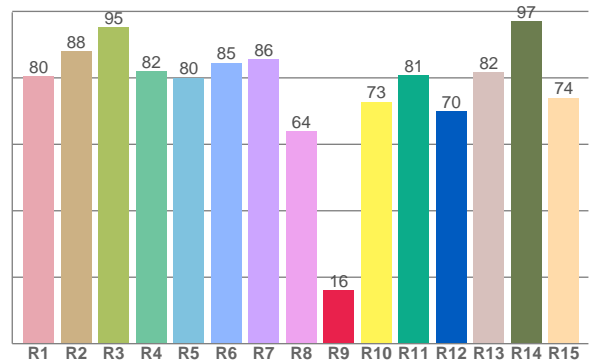
Color details



TM30: 81.4



CRI: 82.5 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.4 | 88.0 | 95.1 | 82.0 | 80.0 | 84.6 | 85.5 | 64.0 | 16.1 | 72.8 | 80.8 | 70.0 | 81.6 | 97.0 | 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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.1 | 79.2 | 72.1 | 79.6 | 85.2 | 86.5 | 77.5 | 88.3 | 85.1 | 83.3 | 79.7 | 82.2 | 87.5 | 82.1 | 79.2 | 79.4 |

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 |
| 2936 K | 82.5 | 16.1 | 81.4 | 98.8 | 0.443 | 0.409 | 0.253 | 0.349 | 0.0010 |

TM30 details

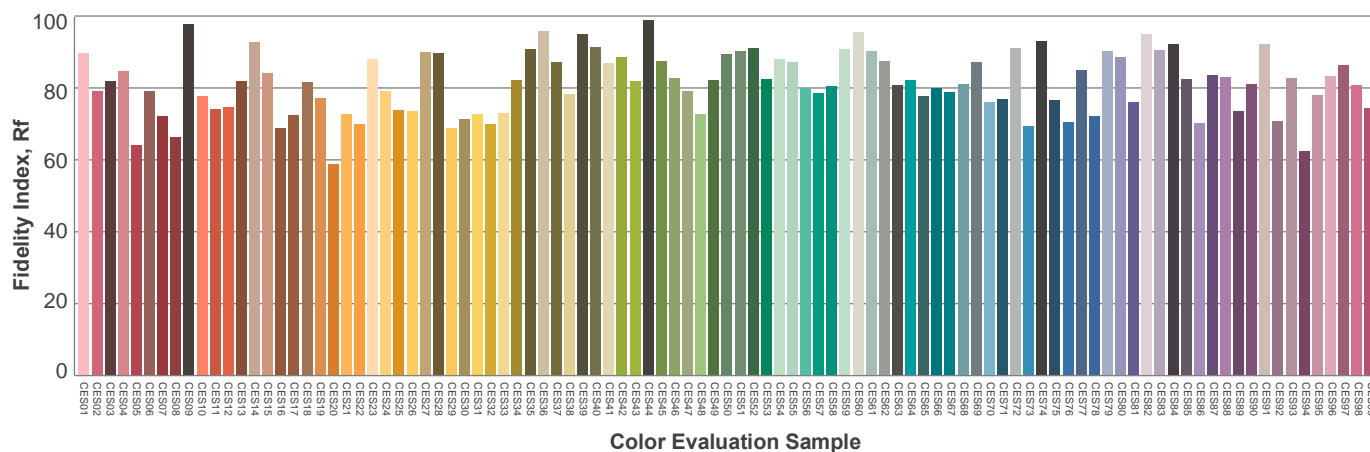
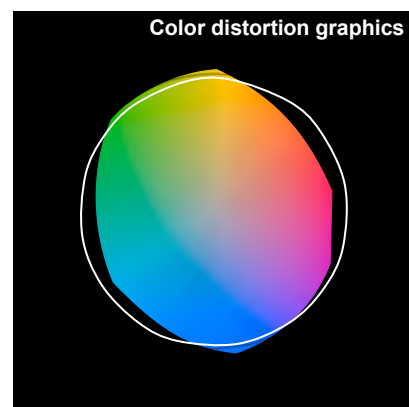
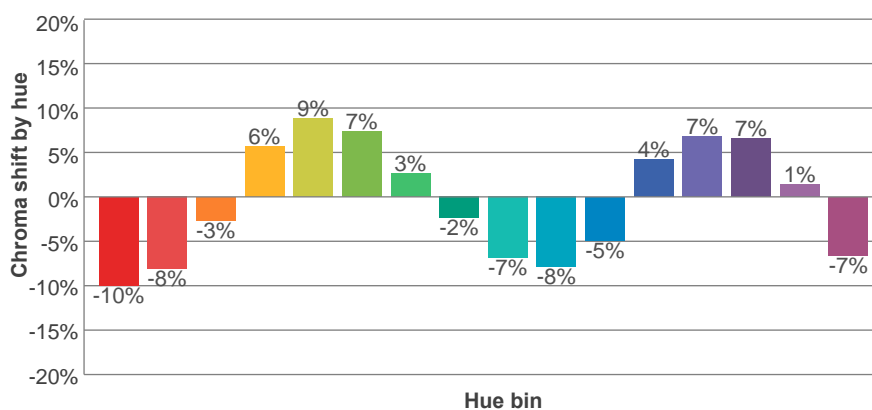
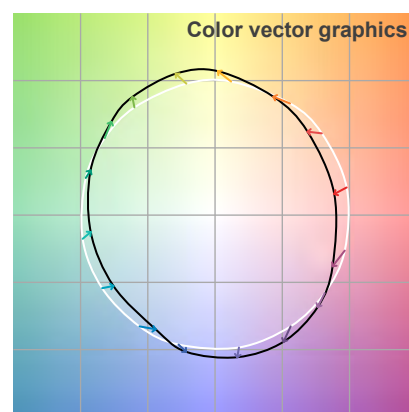
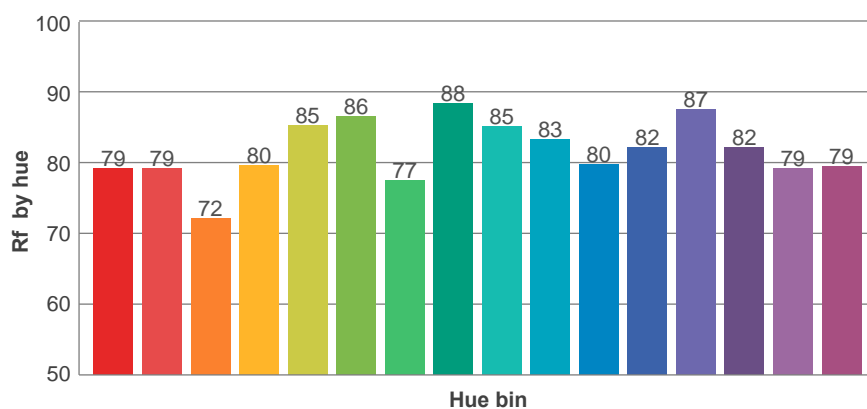
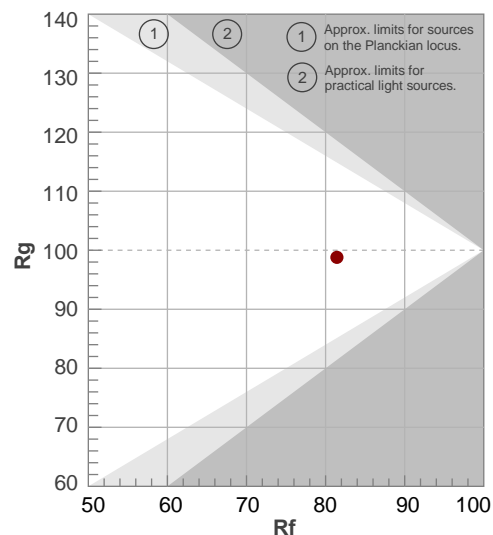
Rf 81.4

Fidelity index Rf

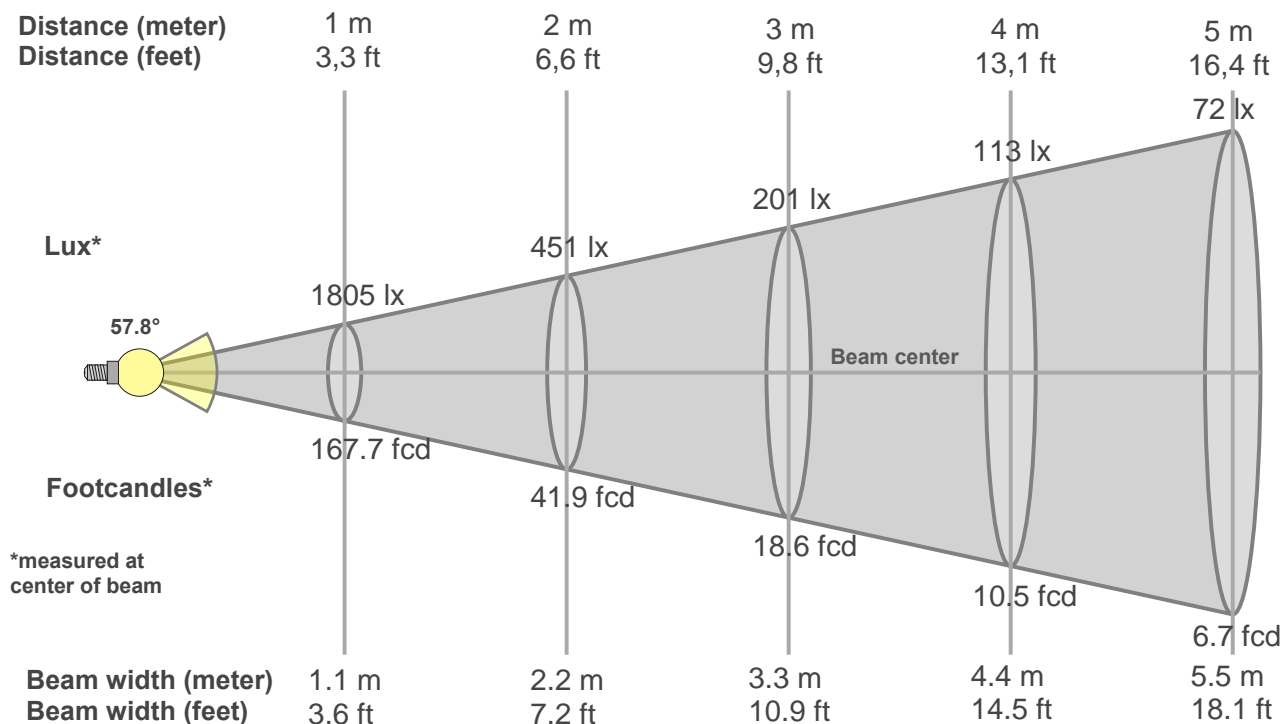
Rg 98.8

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 | 6% | 11% |
| 5 | 85 | 9% | 6% |
| 6 | 86 | 7% | -3% |
| 7 | 77 | 3% | -13% |
| 8 | 88 | -2% | -6% |
| 9 | 85 | -7% | -4% |
| 10 | 83 | -8% | 3% |
| 11 | 80 | -5% | 11% |
| 12 | 82 | 4% | 7% |
| 13 | 87 | 7% | -3% |
| 14 | 82 | 7% | -11% |
| 15 | 79 | 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 |
| 1805lx | 451lx | 201lx | 113lx | 72lx | 50lx | 37lx | 28lx | 22lx | 18lx | 15lx | 13lx | 11lx | 9lx | 8lx | 7lx | 6lx | 6lx | 5lx | 5lx |
| 167.7fcd | 41.9fcd | 18.6fcd | 10.5fcd | 6.7fcd | 4.7fcd | 3.4fcd | 2.6fcd | 2.1fcd | 1.7fcd | 1.4fcd | 1.2fcd | 1fcd | 0.9fcd | 0.7fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.5fcd | 0.4fcd |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| 1805 | 1805 | 1785 | 1749 | 1704 | 1657 | 1587 | 1518 | 1439 | 1354 | 1269 | 1184 | 1099 | 1018 | 939 | 853 | 736 | 618 | 494 | 366 |
| 100% | 100% | 99% | 97% | 94% | 92% | 88% | 84% | 80% | 75% | 70% | 66% | 61% | 56% | 52% | 47% | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| 1805 | 1805 | 1785 | 1749 | 1704 | 1657 | 1587 | 1518 | 1439 | 1354 | 1269 | 1184 | 1099 | 1018 | 939 | 853 | 736 | 618 | 494 | 366 |
| 100% | 100% | 99% | 97% | 94% | 92% | 88% | 84% | 80% | 75% | 70% | 66% | 61% | 56% | 52% | 47% | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| 1805 | 1805 | 1785 | 1749 | 1704 | 1657 | 1587 | 1518 | 1439 | 1354 | 1269 | 1184 | 1099 | 1018 | 939 | 853 | 736 | 618 | 494 | 366 |
| 100% | 100% | 99% | 97% | 94% | 92% | 88% | 84% | 80% | 75% | 70% | 66% | 61% | 56% | 52% | 47% | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| 1805 | 1805 | 1785 | 1749 | 1704 | 1657 | 1587 | 1518 | 1439 | 1354 | 1269 | 1184 | 1099 | 1018 | 939 | 853 | 736 | 618 | 494 | 366 |
| 100% | 100% | 99% | 97% | 94% | 92% | 88% | 84% | 80% | 75% | 70% | 66% | 61% | 56% | 52% | 47% | 41% | 34% | 27% | 20% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 57.8° | 84° | 101.6° | 94.3% | 90.5% |