

Light efficiency:

77 Lumen/Watt

Light quality:

CRI: 83.5

Color temperature:

2981 K

Output: 787 lm

Peak: 884 cd

Power: 10.3 W

PF: 0.98



Beam angle

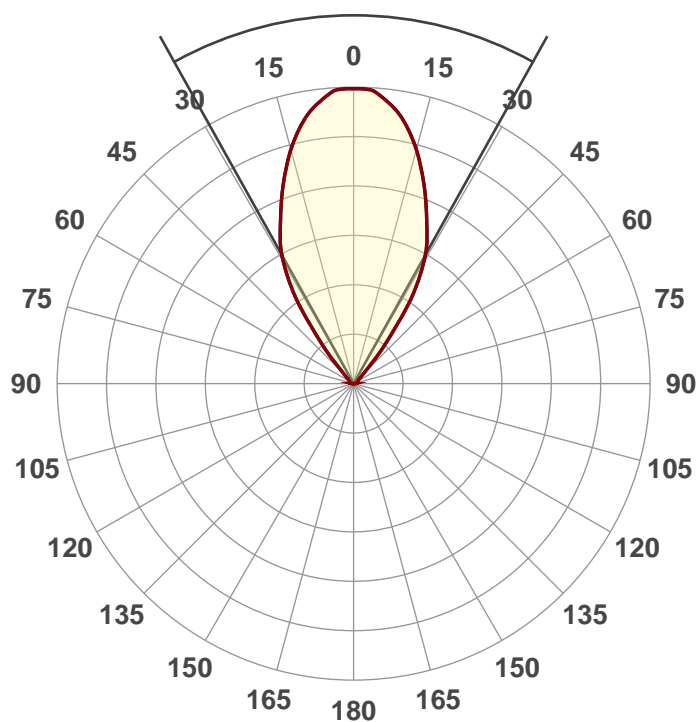
58.3°

Product name:

NU3-QD-XTM19-10LM-30K-83-HE60-NL-120-Dim10-RET-WH-WH

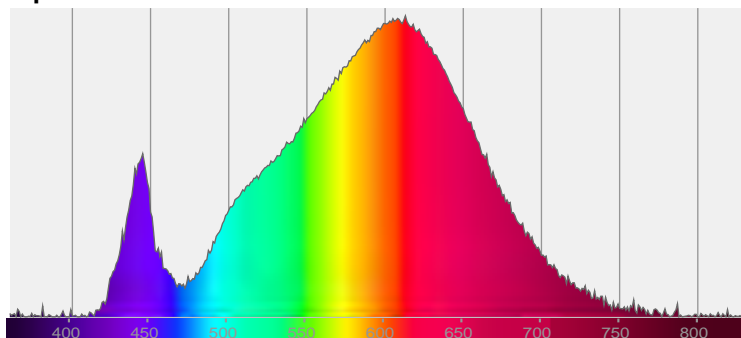
Date and time:

11/29/2017 3:03:36 PM

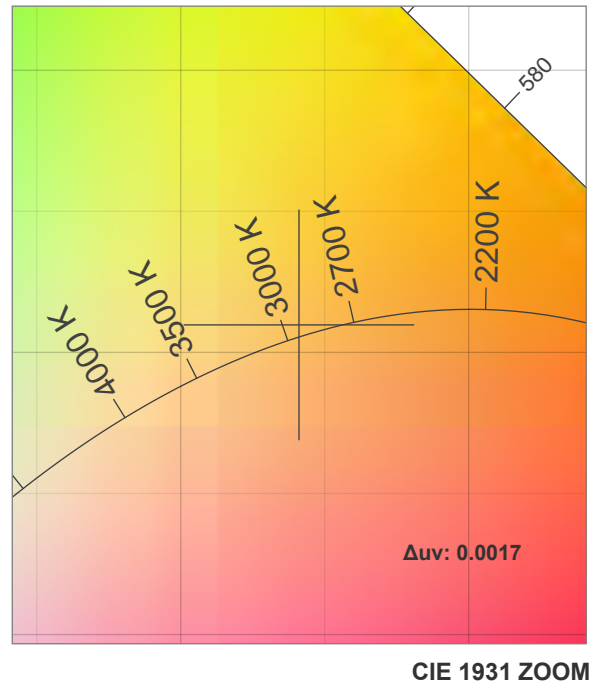
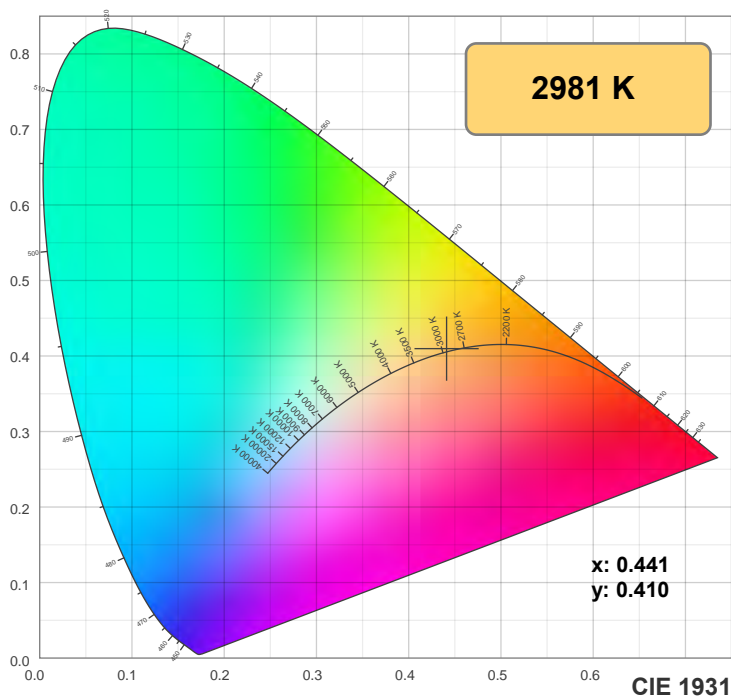


CIE 1931
x: 0.441
y: 0.410

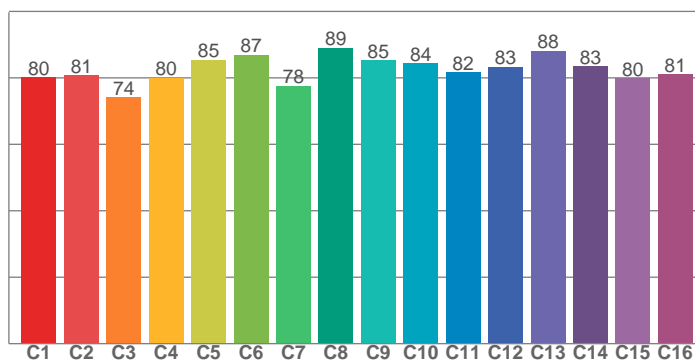
Spectra



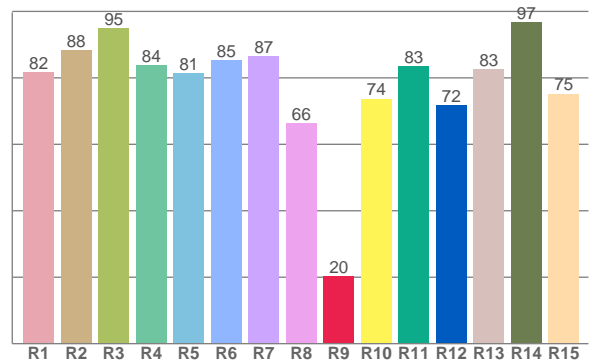
Color details



TM30: 82.4



CRI: 83.5 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 81.7 | 88.3 | 94.9 | 83.9 | 81.4 | 85.3 | 86.5 | 66.2 | 20.3 | 73.7 | 83.4 | 71.7 | 82.7 | 96.8 | 75.2 |

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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.1 | 80.7 | 74.2 | 80.0 | 85.3 | 86.9 | 77.6 | 89.0 | 85.3 | 84.3 | 81.7 | 83.3 | 88.1 | 83.4 | 79.9 | 81.0 |

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 |
| 2981 K | 83.5 | 20.3 | 82.4 | 99.1 | 0.441 | 0.410 | 0.251 | 0.349 | 0.0017 |

TM30 details

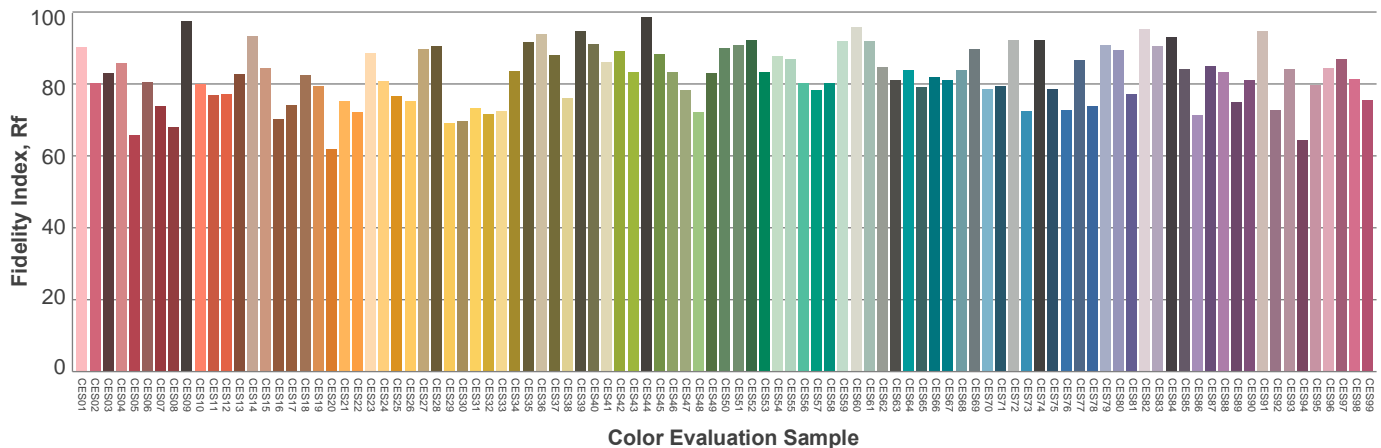
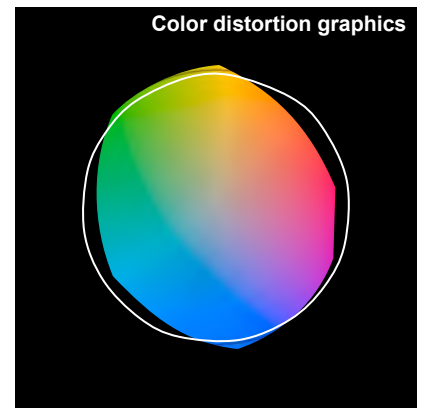
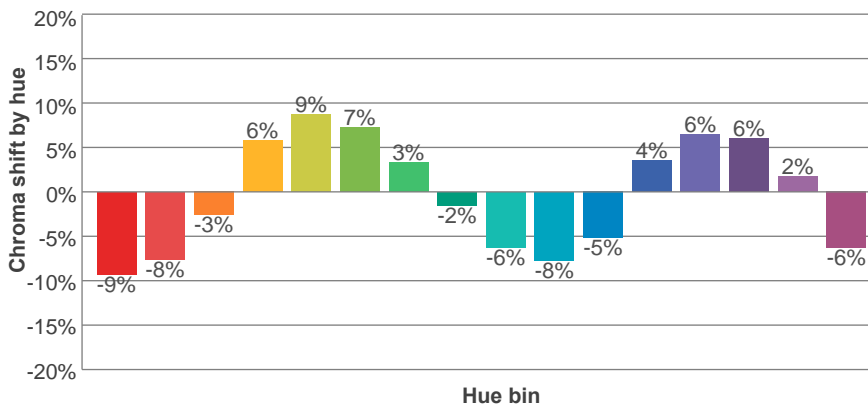
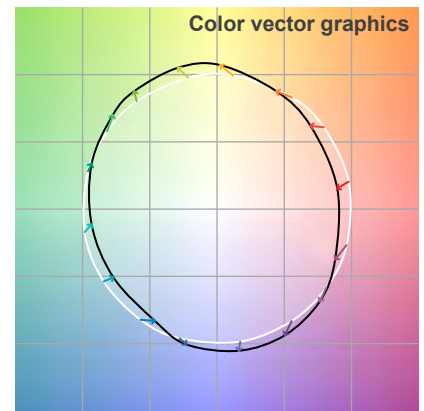
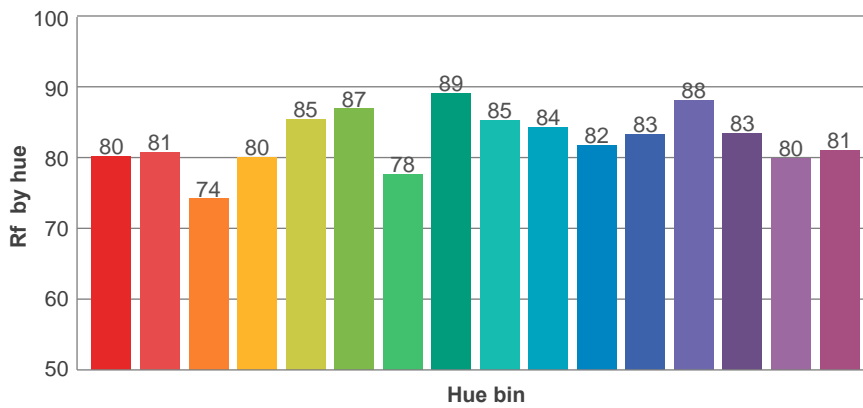
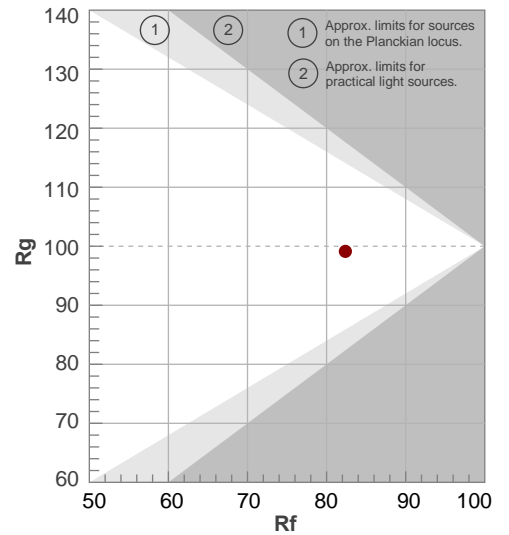
Rf 82.4

Fidelity index Rf

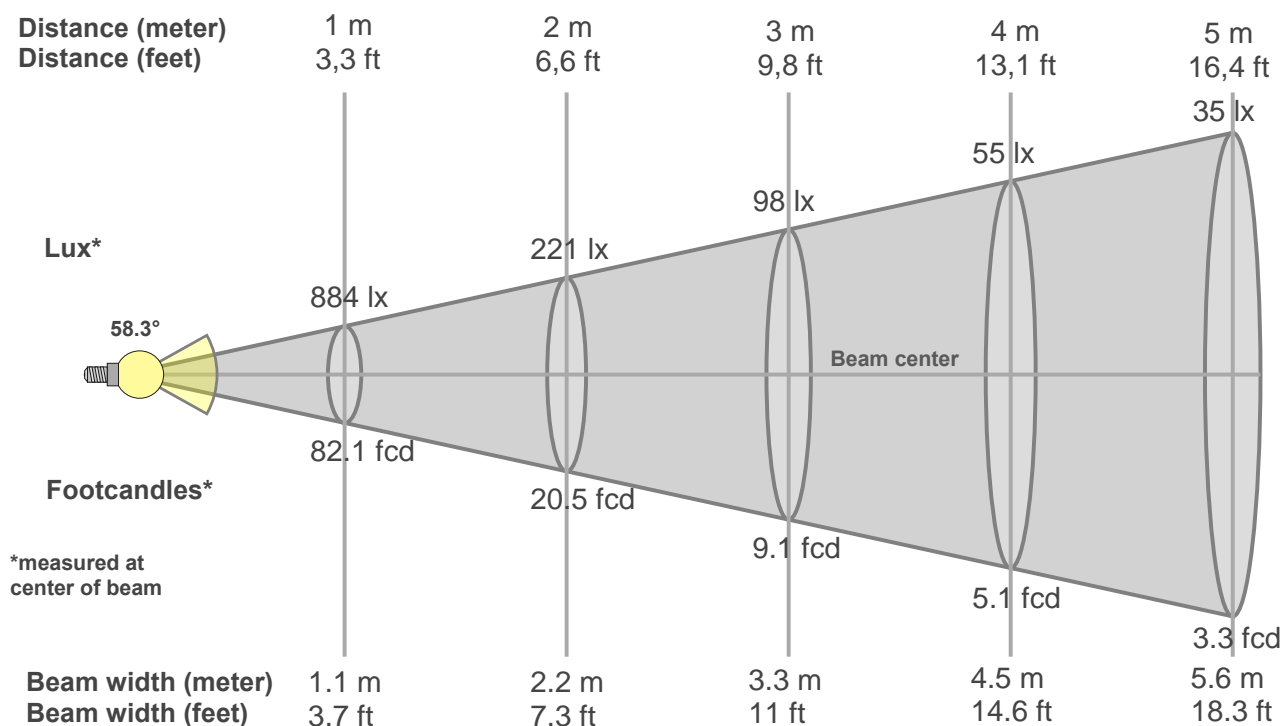
Rg 99.1

Gammut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 80 | -9% | -3% |
| 2 | 81 | -8% | 6% |
| 3 | 74 | -3% | 12% |
| 4 | 80 | 6% | 11% |
| 5 | 85 | 9% | 6% |
| 6 | 87 | 7% | -3% |
| 7 | 78 | 3% | -12% |
| 8 | 89 | -2% | -6% |
| 9 | 85 | -6% | -5% |
| 10 | 84 | -8% | 2% |
| 11 | 82 | -5% | 9% |
| 12 | 83 | 4% | 6% |
| 13 | 88 | 6% | -2% |
| 14 | 83 | 6% | -10% |
| 15 | 80 | 2% | -11% |
| 16 | 81 | -6% | -12% |



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 |
| 884lx | 221lx | 98lx | 55lx | 35lx | 25lx | 18lx | 14lx | 11lx | 9lx | 7lx | 6lx | 5lx | 5lx | 4lx | 3lx | 3lx | 3lx | 2lx | 2lx |
| 82.1fcd | 20.5fcd | 9.1fcd | 5.1fcd | 3.3fcd | 2.3fcd | 1.7fcd | 1.3fcd | 1fcd | 0.8fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.4fcd | 0.4fcd | 0.3fcd | 0.3fcd | 0.3fcd | 0.2fcd | 0.2fcd |

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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 884 | 884 | 876 | 859 | 837 | 814 | 779 | 745 | 706 | 664 | 622 | 581 | 539 | 501 | 463 | 419 | 365 | 310 | 244 | 177 |
| 100% | 100% | 99% | 97% | 95% | 92% | 88% | 84% | 80% | 75% | 70% | 66% | 61% | 57% | 52% | 47% | 41% | 35% | 28% | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 884 | 884 | 876 | 859 | 837 | 814 | 779 | 745 | 706 | 664 | 622 | 581 | 539 | 501 | 463 | 419 | 365 | 310 | 244 | 177 |
| 100% | 100% | 99% | 97% | 95% | 92% | 88% | 84% | 80% | 75% | 70% | 66% | 61% | 57% | 52% | 47% | 41% | 35% | 28% | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 884 | 884 | 876 | 859 | 837 | 814 | 779 | 745 | 706 | 664 | 622 | 581 | 539 | 501 | 463 | 419 | 365 | 310 | 244 | 177 |
| 100% | 100% | 99% | 97% | 95% | 92% | 88% | 84% | 80% | 75% | 70% | 66% | 61% | 57% | 52% | 47% | 41% | 35% | 28% | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 884 | 884 | 876 | 859 | 837 | 814 | 779 | 745 | 706 | 664 | 622 | 581 | 539 | 501 | 463 | 419 | 365 | 310 | 244 | 177 |
| 100% | 100% | 99% | 97% | 95% | 92% | 88% | 84% | 80% | 75% | 70% | 66% | 61% | 57% | 52% | 47% | 41% | 35% | 28% | 20% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 58.3° | 83.7° | 101.1° | 94.6% | 91.0% |