

Light efficiency:

88 Lumen/Watt

Light quality:

CRI: 83.3

Color temperature:

2934 K

Output: 1106 lm

Peak: 1276 cd

Power: 12.6 W

PF: 0.95



Beam angle

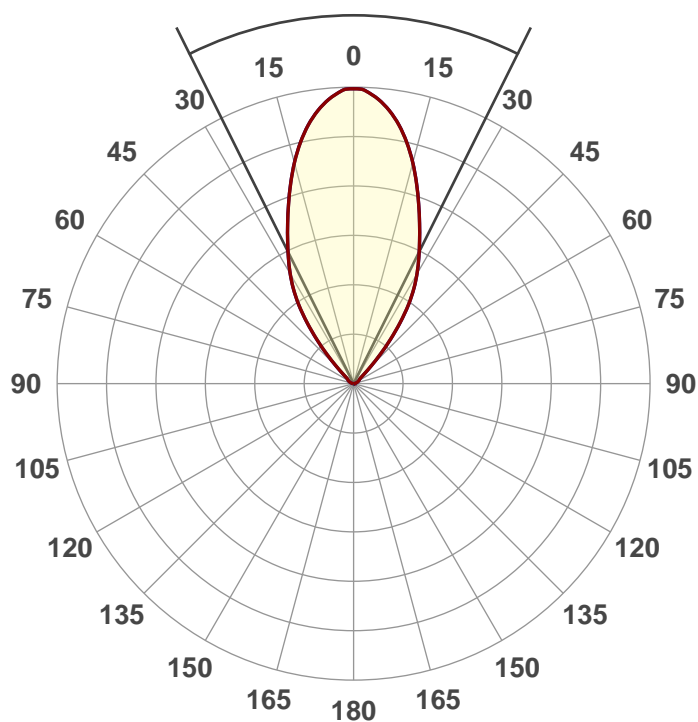
52.9°

Product name:

NU3-QDT-XTM19-13LM-30K-83-S55-120-DIM10-RET-WH-WH

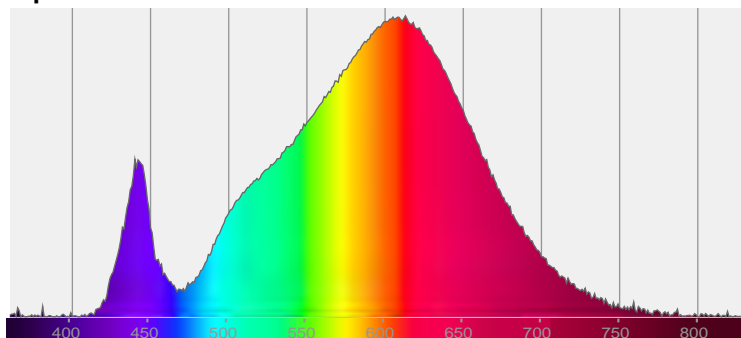
Date and time:

6/21/2017 12:49:25 PM

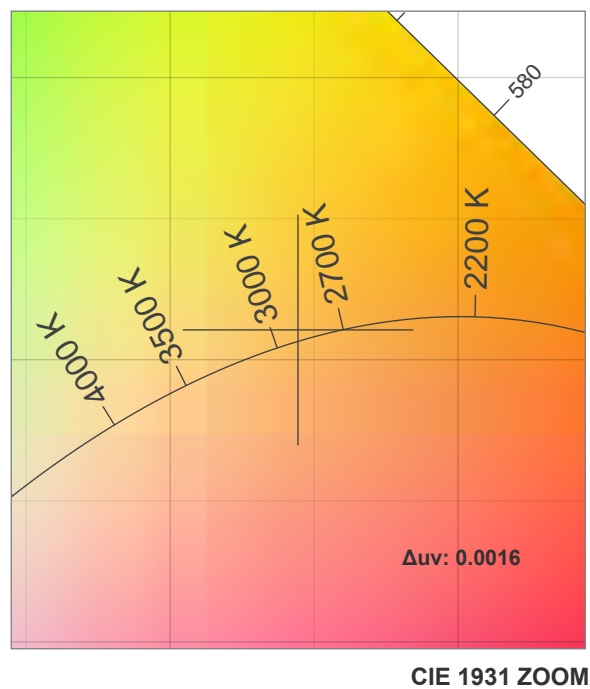
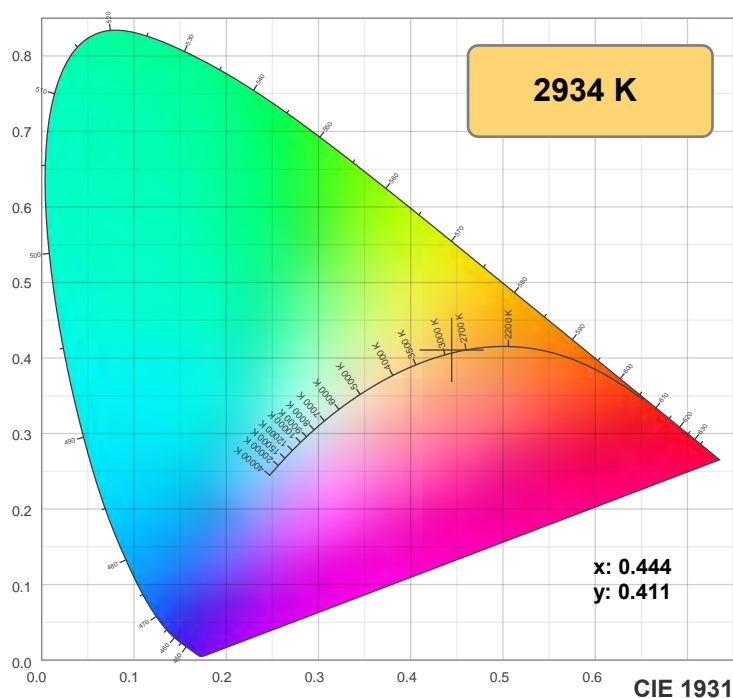


CIE 1931
x: 0.444
y: 0.411

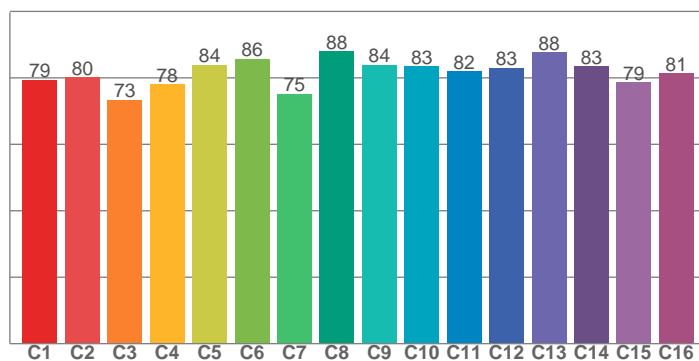
Spectra



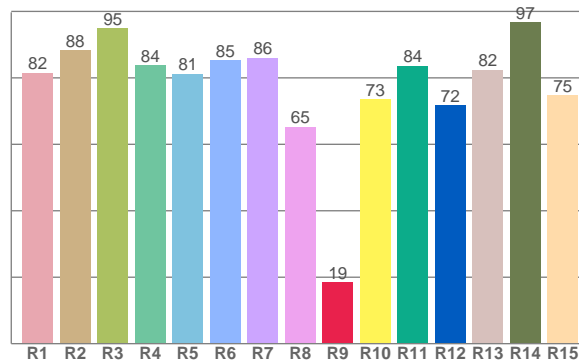
Color details



TM30: 81.5



CRI: 83.3 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 81.5 | 88.2 | 94.9 | 83.8 | 81.3 | 85.3 | 86.0 | 65.3 | 18.6 | 73.5 | 83.6 | 71.7 | 82.5 | 96.8 | 74.7 |

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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.5 | 80.1 | 73.3 | 78.1 | 83.9 | 85.7 | 75.2 | 87.9 | 84.0 | 83.5 | 81.9 | 82.9 | 87.7 | 83.4 | 78.7 | 81.3 |

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 |
| 2934 K | 83.3 | 18.6 | 81.5 | 99.4 | 0.444 | 0.411 | 0.253 | 0.350 | 0.0016 |

TM30 details

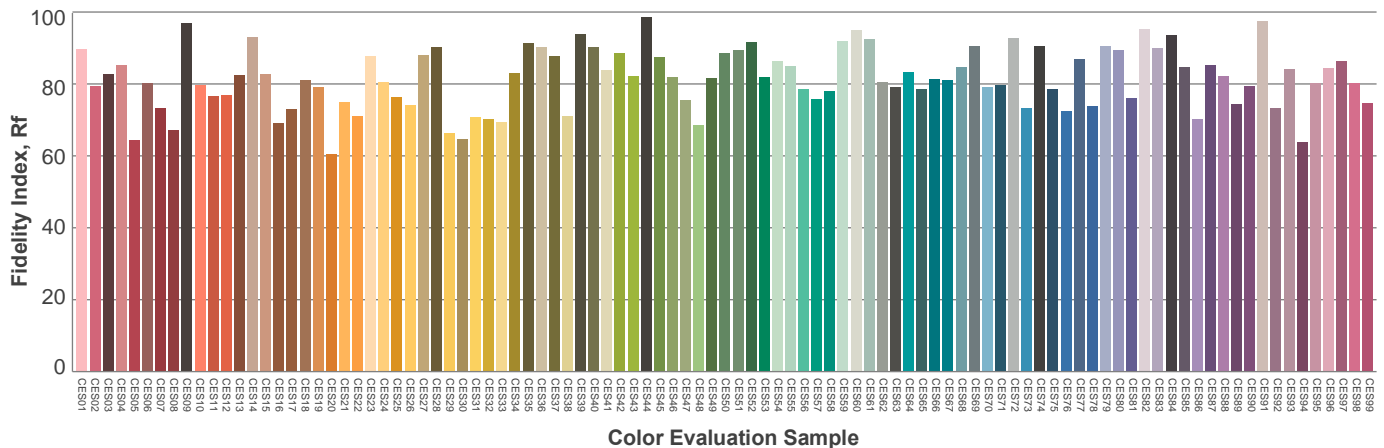
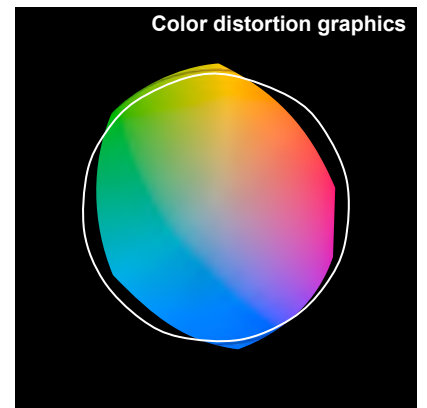
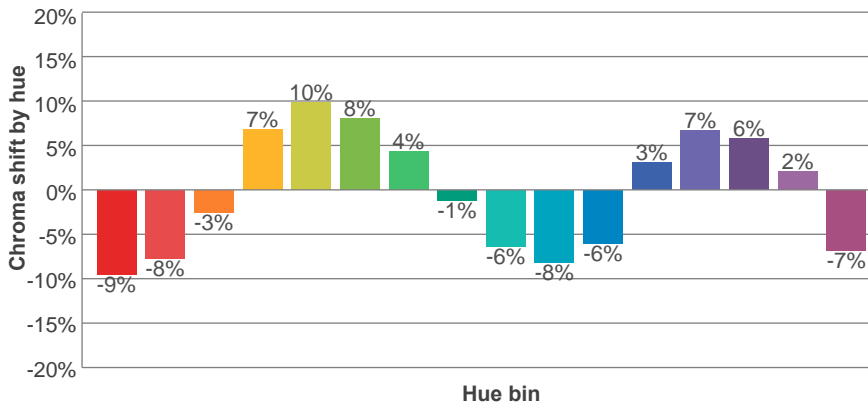
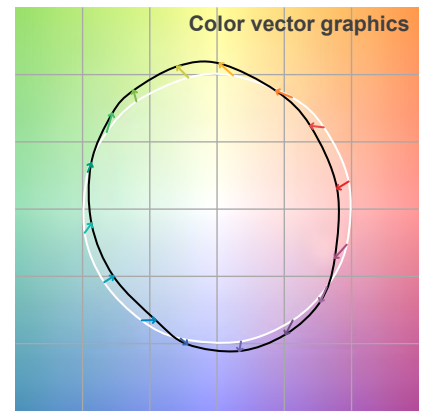
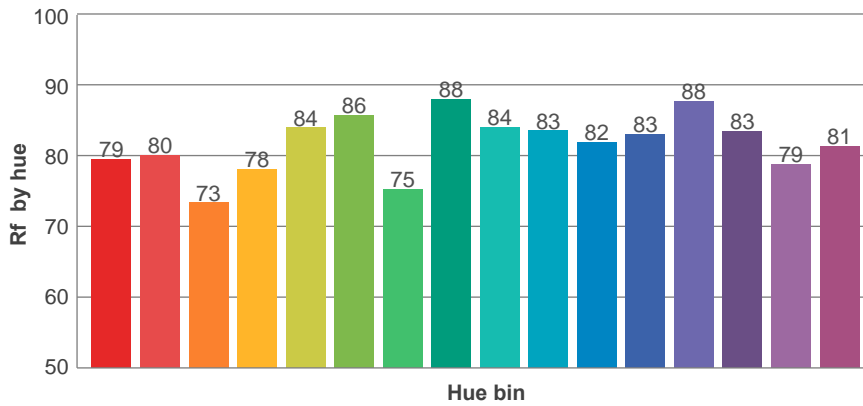
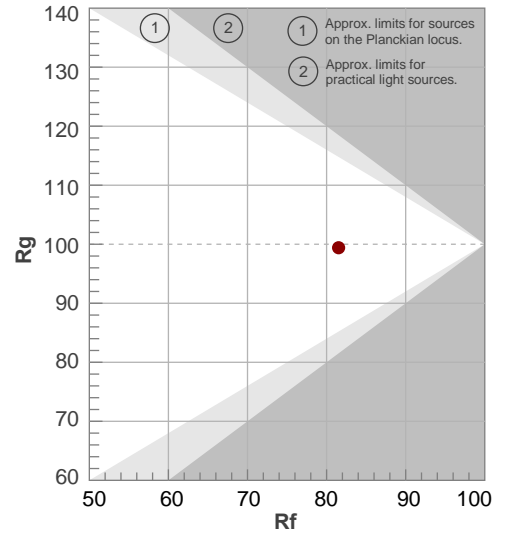
Rf 81.5

Fidelity index Rf

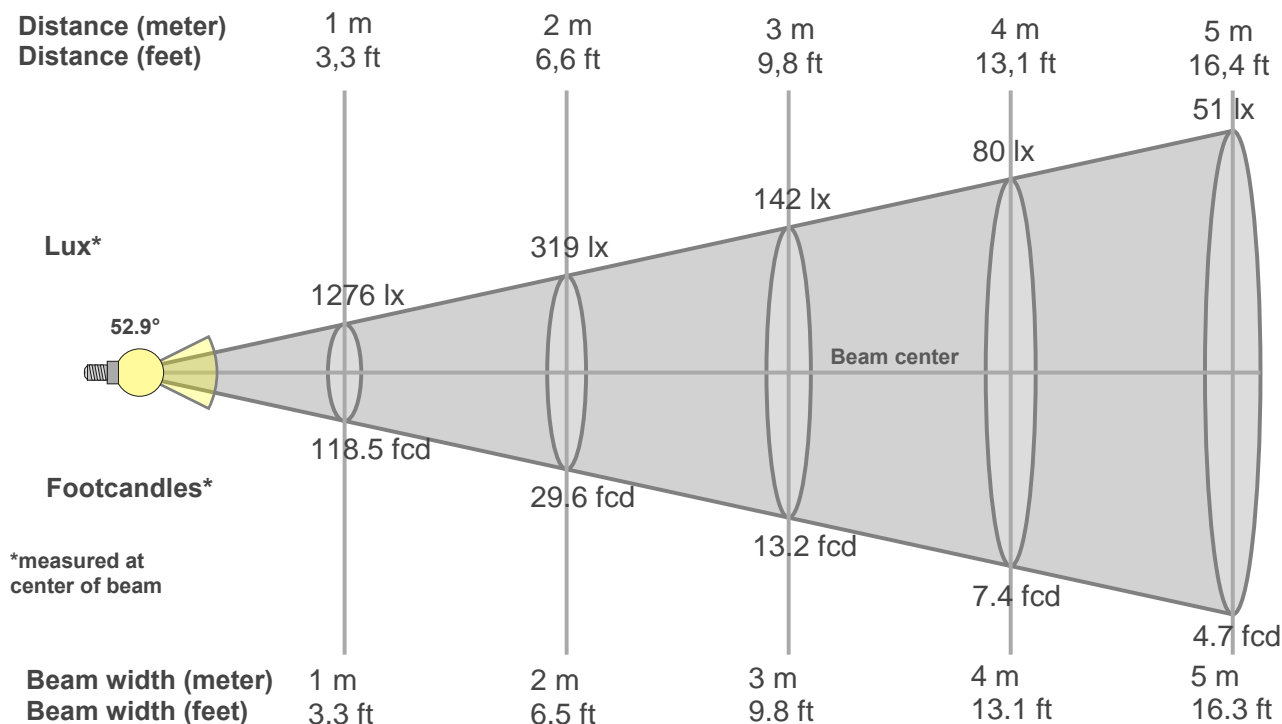
Rg 99.4

Gammut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 79 | -9% | -4% |
| 2 | 80 | -8% | 7% |
| 3 | 73 | -3% | 13% |
| 4 | 78 | 7% | 12% |
| 5 | 84 | 10% | 7% |
| 6 | 86 | 8% | -3% |
| 7 | 75 | 4% | -14% |
| 8 | 88 | -1% | -7% |
| 9 | 84 | -6% | -6% |
| 10 | 83 | -8% | 0% |
| 11 | 82 | -6% | 8% |
| 12 | 83 | 3% | 6% |
| 13 | 88 | 7% | -3% |
| 14 | 83 | 6% | -10% |
| 15 | 79 | 2% | -12% |
| 16 | 81 | -7% | -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 |
| 1276lx | 319lx | 142lx | 80lx | 51lx | 35lx | 26lx | 20lx | 16lx | 13lx | 11lx | 9lx | 8lx | 7lx | 6lx | 5lx | 4lx | 4lx | 4lx | 3lx |
| 118.5fcd | 29.6fcd | 13.2fcd | 7.4fcd | 4.7fcd | 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° | 2° | 4° | 6° | 8° | 10° | 12° | 14° | 16° | 18° | 20° | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° |
|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1276 | 1271 | 1248 | 1218 | 1180 | 1135 | 1081 | 1021 | 957 | 891 | 824 | 762 | 704 | 650 | 599 | 549 | 497 | 440 | 377 | 310 |
| 100% | 100% | 98% | 95% | 92% | 89% | 85% | 80% | 75% | 70% | 65% | 60% | 55% | 51% | 47% | 43% | 39% | 34% | 30% | 24% |

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° |
|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1276 | 1271 | 1248 | 1218 | 1180 | 1135 | 1081 | 1021 | 957 | 891 | 824 | 762 | 704 | 650 | 599 | 549 | 497 | 440 | 377 | 310 |
| 100% | 100% | 98% | 95% | 92% | 89% | 85% | 80% | 75% | 70% | 65% | 60% | 55% | 51% | 47% | 43% | 39% | 34% | 30% | 24% |

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° |
|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1276 | 1271 | 1248 | 1218 | 1180 | 1135 | 1081 | 1021 | 957 | 891 | 824 | 762 | 704 | 650 | 599 | 549 | 497 | 440 | 377 | 310 |
| 100% | 100% | 98% | 95% | 92% | 89% | 85% | 80% | 75% | 70% | 65% | 60% | 55% | 51% | 47% | 43% | 39% | 34% | 30% | 24% |

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° |
|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1276 | 1271 | 1248 | 1218 | 1180 | 1135 | 1081 | 1021 | 957 | 891 | 824 | 762 | 704 | 650 | 599 | 549 | 497 | 440 | 377 | 310 |
| 100% | 100% | 98% | 95% | 92% | 89% | 85% | 80% | 75% | 70% | 65% | 60% | 55% | 51% | 47% | 43% | 39% | 34% | 30% | 24% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 52.9° | 88.1° | 108.2° | 96.6% | 91.5% |