

Light efficiency:

71 Lumen/Watt

Light quality:

CRI: 83.2

Color temperature:

2926 K

Output: 718 lm

Peak: 426 cd

Power: 10.1 W

PF: 0.98



Beam angle

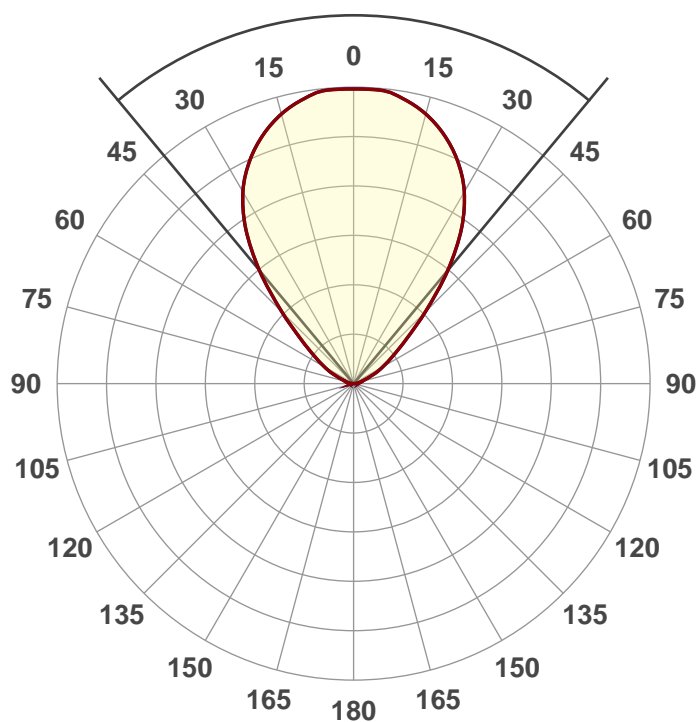
79.5°

Product name:

NU3-QDT-XTM19-10LM-30K-83-
HE80-120-DIM10-RET-WH-WH

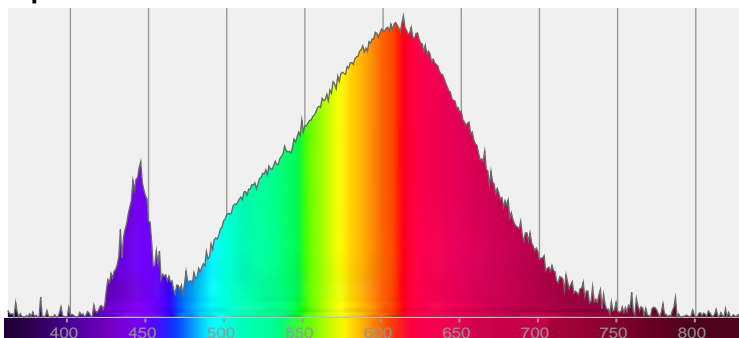
Date and time:

11/30/2017 11:35:46 AM

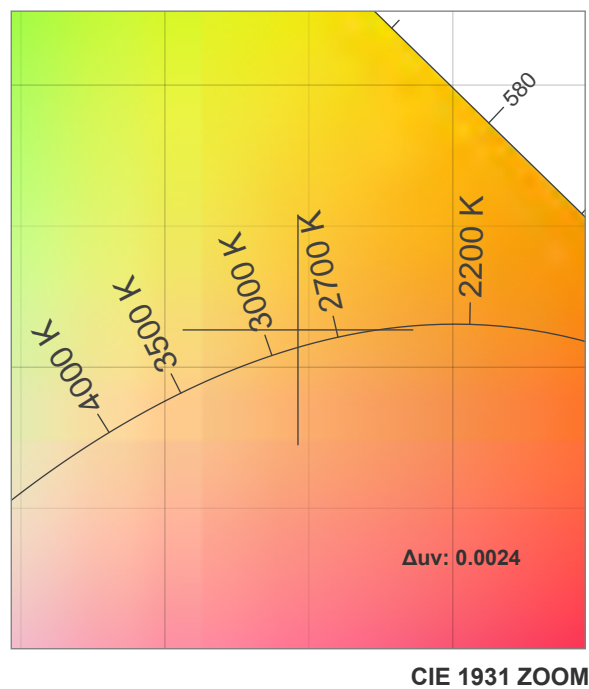
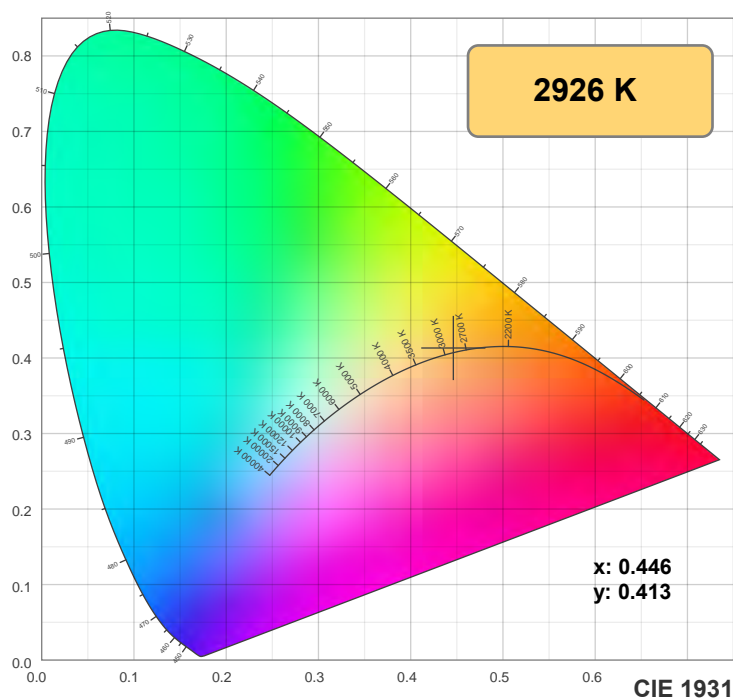


CIE 1931
x: 0.446
y: 0.413

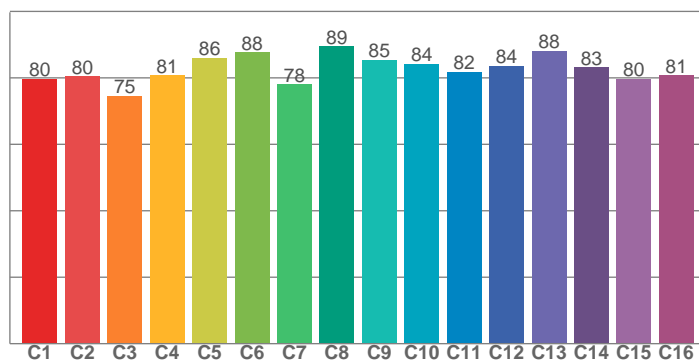
Spectra



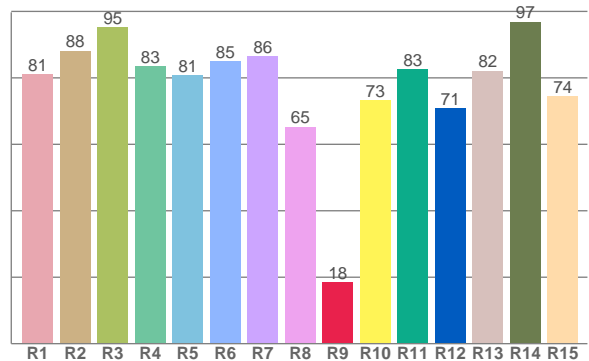
Color details



TM30: 82.5



CRI: 83.2 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 81.2 | 88.1 | 95.1 | 83.4 | 80.8 | 85.0 | 86.5 | 65.3 | 18.4 | 73.2 | 82.7 | 70.9 | 82.2 | 96.9 | 74.4 |

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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.7 | 80.5 | 74.5 | 80.7 | 86.0 | 87.7 | 78.0 | 89.4 | 85.3 | 84.2 | 81.8 | 83.6 | 88.1 | 83.1 | 79.7 | 80.7 |

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 |
| 2926 K | 83.2 | 18.4 | 82.5 | 98.6 | 0.446 | 0.413 | 0.253 | 0.351 | 0.0024 |

TM30 details

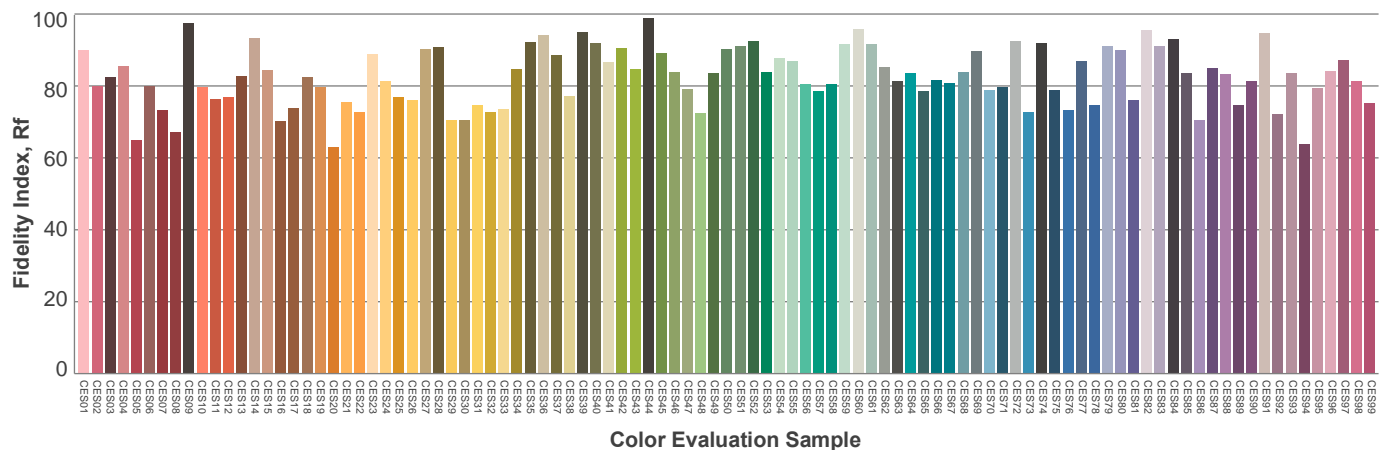
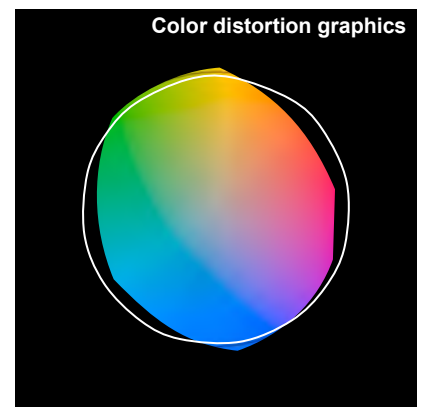
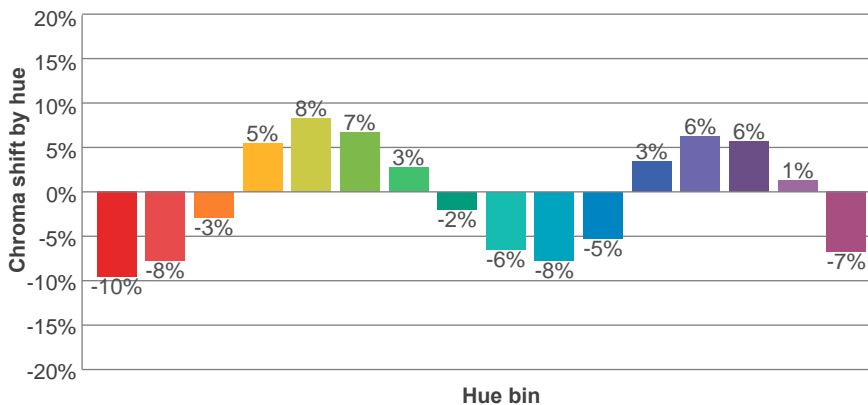
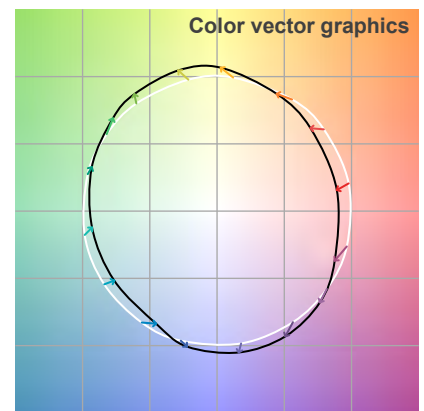
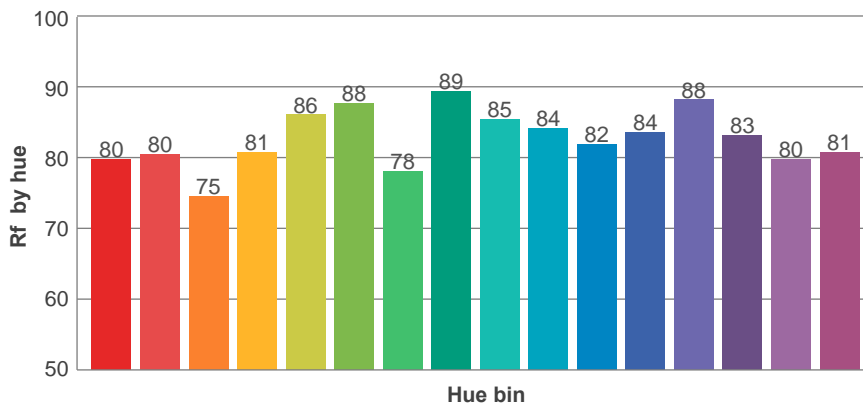
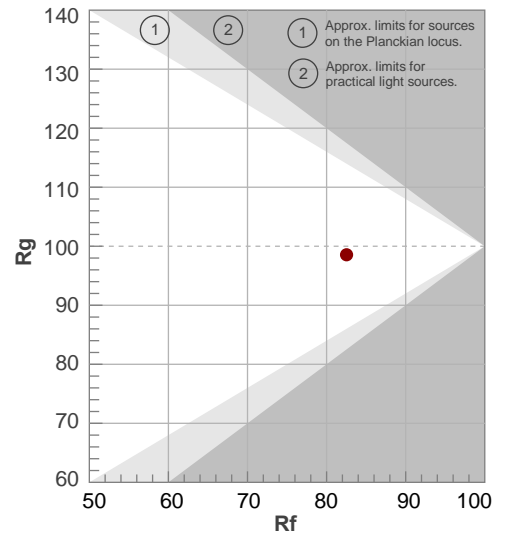
Rf 82.5

Fidelity index Rf

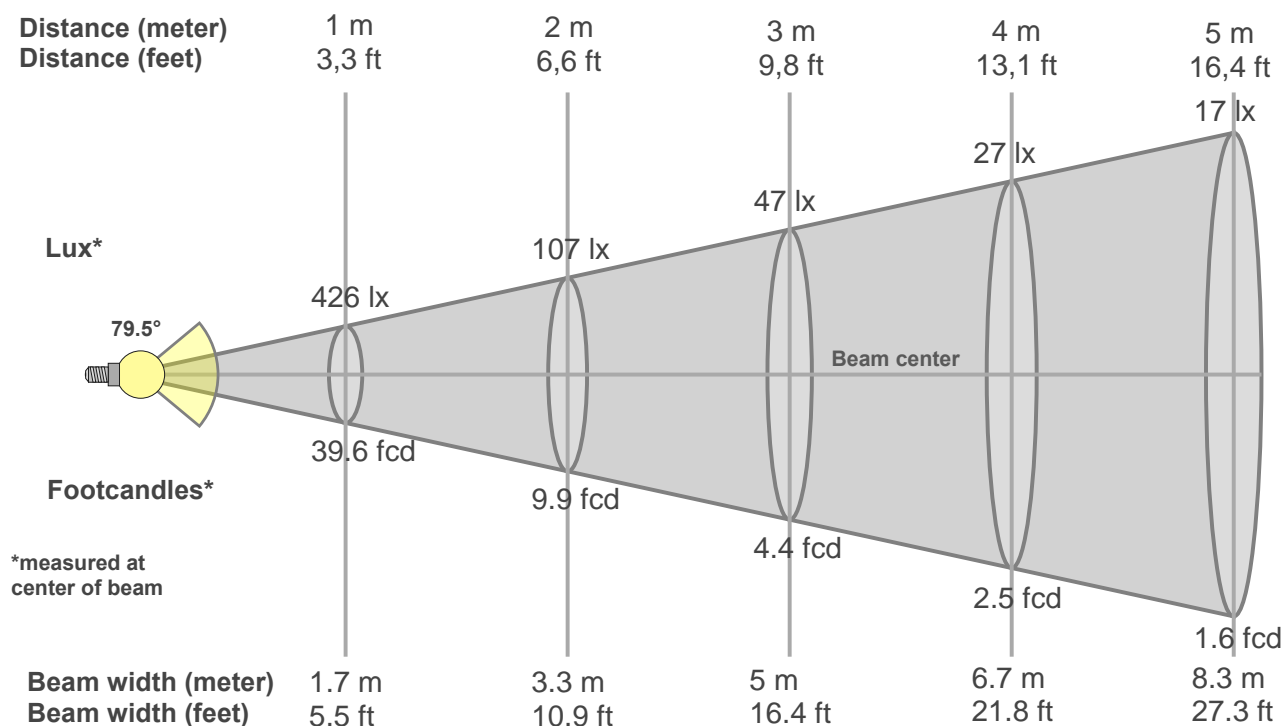
Rg 98.6

Gammut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 80 | -10% | -3% |
| 2 | 80 | -8% | 6% |
| 3 | 75 | -3% | 12% |
| 4 | 81 | 5% | 10% |
| 5 | 86 | 8% | 6% |
| 6 | 88 | 7% | -3% |
| 7 | 78 | 3% | -12% |
| 8 | 89 | -2% | -6% |
| 9 | 85 | -6% | -4% |
| 10 | 84 | -8% | 2% |
| 11 | 82 | -5% | 9% |
| 12 | 84 | 3% | 5% |
| 13 | 88 | 6% | -3% |
| 14 | 83 | 6% | -11% |
| 15 | 80 | 1% | -11% |
| 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 |
| 426lx | 107lx | 47lx | 27lx | 17lx | 12lx | 9lx | 7lx | 5lx | 4lx | 4lx | 3lx | 3lx | 2lx | 2lx | 2lx | 1lx | 1lx | 1lx | 1lx |
| 39.6fcd | 9.9fcd | 4.4fcd | 2.5fcd | 1.6fcd | 1.1fcd | 0.8fcd | 0.6fcd | 0.5fcd | 0.4fcd | 0.3fcd | 0.3fcd | 0.2fcd | 0.2fcd | 0.2fcd | 0.2fcd | 0.1fcd | 0.1fcd | 0.1fcd | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 426 | 426 | 418 | 403 | 383 | 355 | 320 | 271 | 210 | 147 | 99 | 69 | 49 | 33 | 22 | 12 | 7 | 3 | 1 | 1 |
| 100% | 100% | 98% | 95% | 90% | 83% | 75% | 64% | 49% | 34% | 23% | 16% | 11% | 8% | 5% | 3% | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 426 | 426 | 418 | 403 | 383 | 355 | 320 | 271 | 210 | 147 | 99 | 69 | 49 | 33 | 22 | 12 | 7 | 3 | 1 | 1 |
| 100% | 100% | 98% | 95% | 90% | 83% | 75% | 64% | 49% | 34% | 23% | 16% | 11% | 8% | 5% | 3% | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 426 | 426 | 418 | 403 | 383 | 355 | 320 | 271 | 210 | 147 | 99 | 69 | 49 | 33 | 22 | 12 | 7 | 3 | 1 | 1 |
| 100% | 100% | 98% | 95% | 90% | 83% | 75% | 64% | 49% | 34% | 23% | 16% | 11% | 8% | 5% | 3% | 2% | 1% | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 426 | 426 | 418 | 403 | 383 | 355 | 320 | 271 | 210 | 147 | 99 | 69 | 49 | 33 | 22 | 12 | 7 | 3 | 1 | 1 |
| 100% | 100% | 98% | 95% | 90% | 83% | 75% | 64% | 49% | 34% | 23% | 16% | 11% | 8% | 5% | 3% | 2% | 1% | 0% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 79.5° | 123.9° | 152.7° | 92.1% | 76.4% |