

Light efficiency:

58 Lumen/Watt

Light quality:

CRI: 82.8

Color temperature:

2994 K

Output: 788 lm

Peak: 458 cd

Power: 13.5 W

PF: 0.99



Beam angle

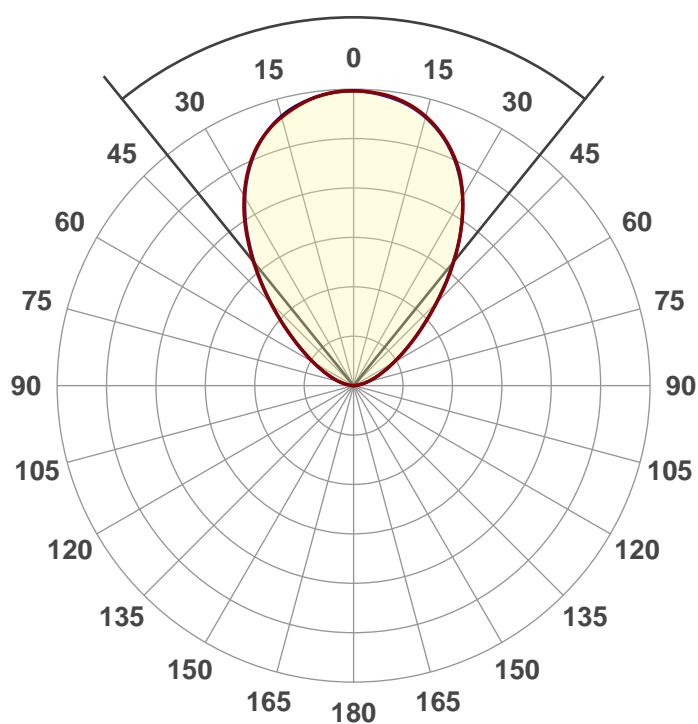
77.9°

Product name:

**608QA-6-XTM19-13LM-30K-83-
UNV-DIM10-WH-TDFS**

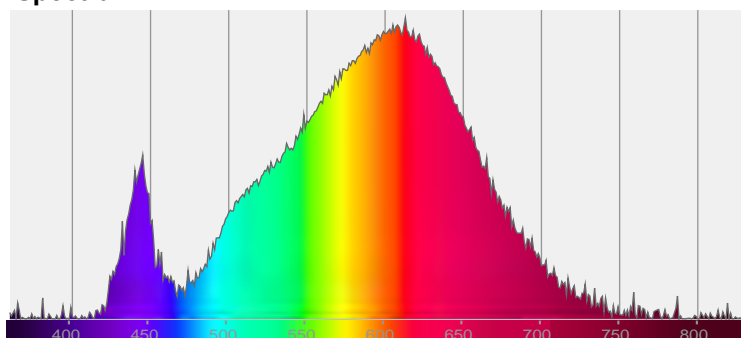
Date and time:

1/12/2018 2:28:16 PM

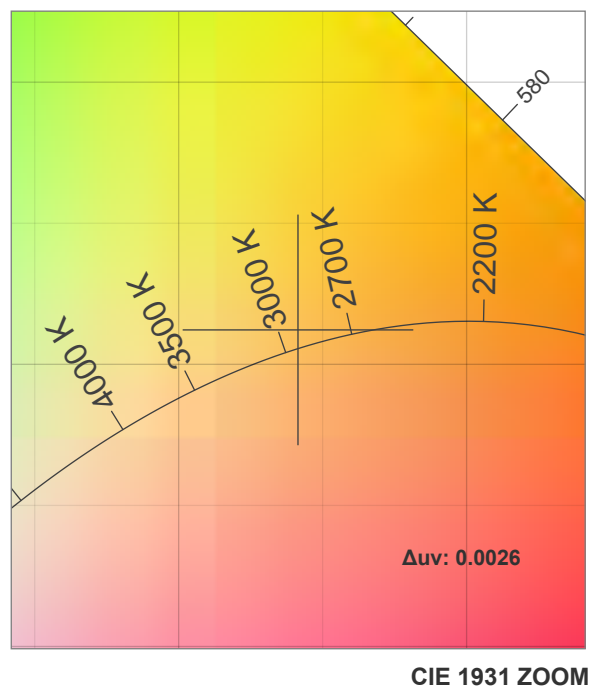
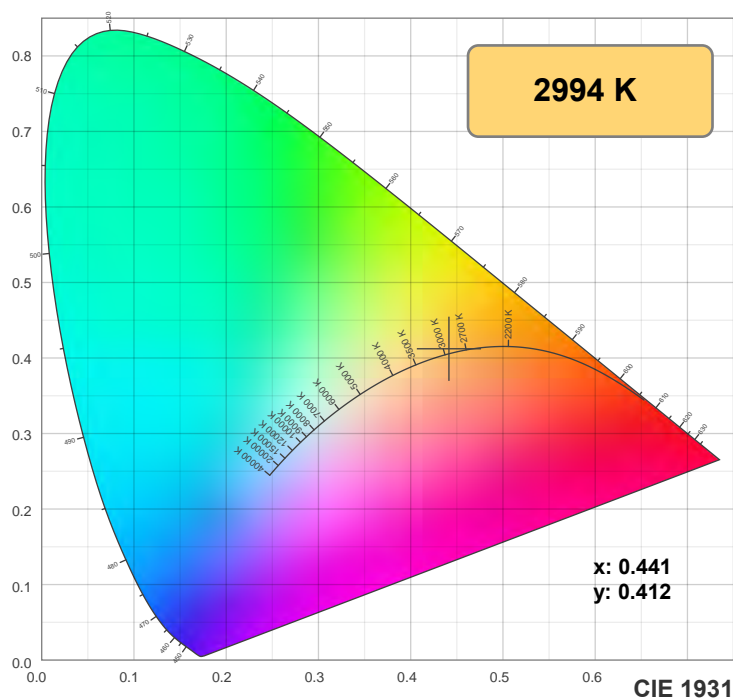


**CIE 1931
x: 0.441
y: 0.412**

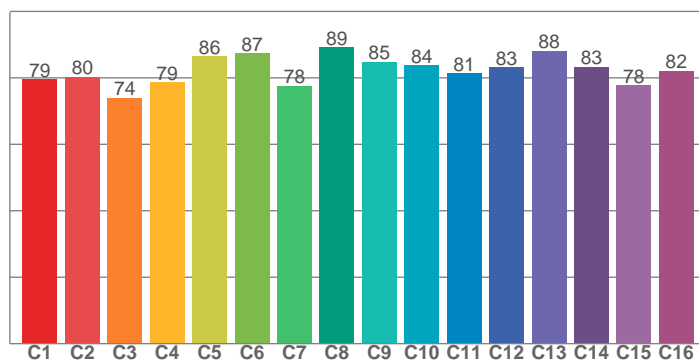
Spectra



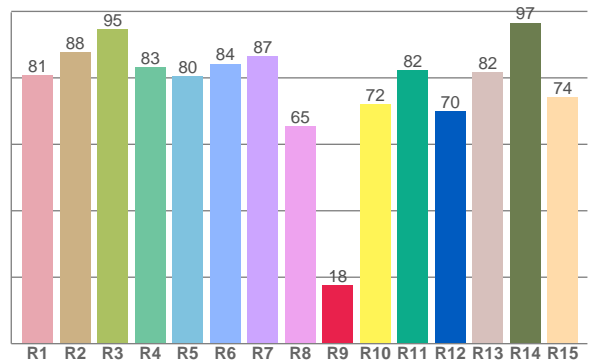
Color details



TM30: 82.2



CRI: 82.8 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.8 | 87.6 | 94.6 | 83.2 | 80.4 | 84.2 | 86.5 | 65.4 | 17.6 | 72.1 | 82.3 | 69.9 | 81.6 | 96.6 | 74.1 |

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 | 80.2 | 74.0 | 78.6 | 86.4 | 87.4 | 77.6 | 89.1 | 84.8 | 83.7 | 81.3 | 83.1 | 88.1 | 83.2 | 77.7 | 82.1 |

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 |
| 2994 K | 82.8 | 17.6 | 82.2 | 98.6 | 0.441 | 0.412 | 0.250 | 0.350 | 0.0026 |

TM30 details

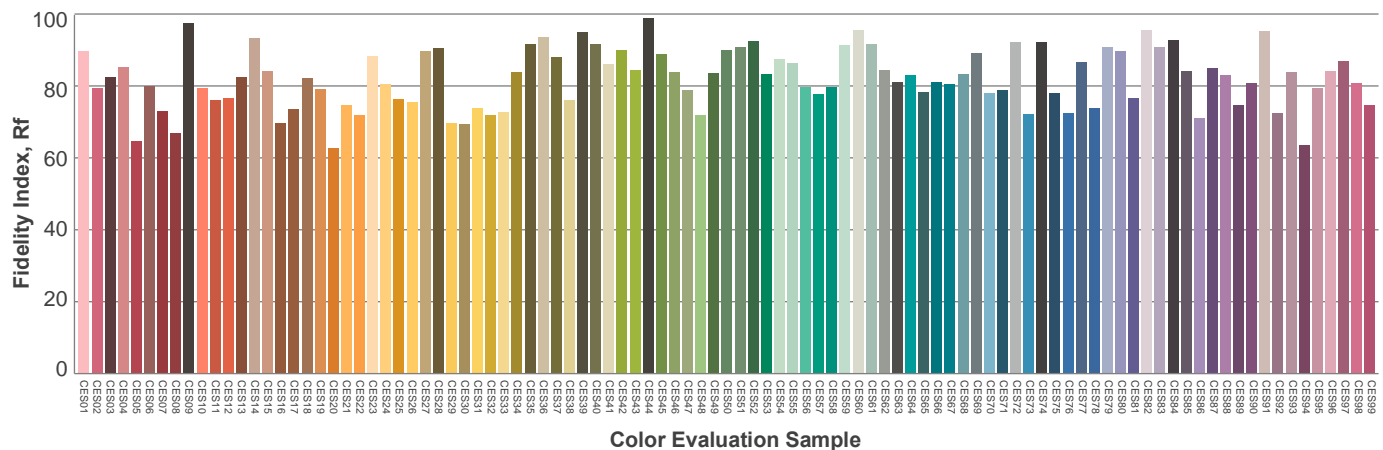
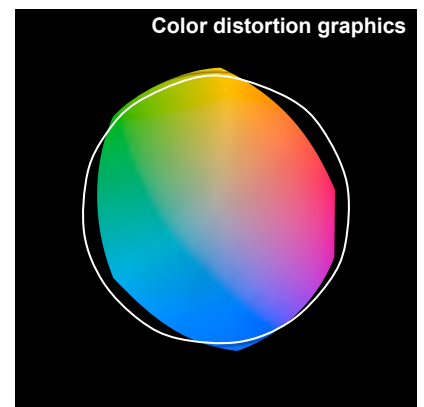
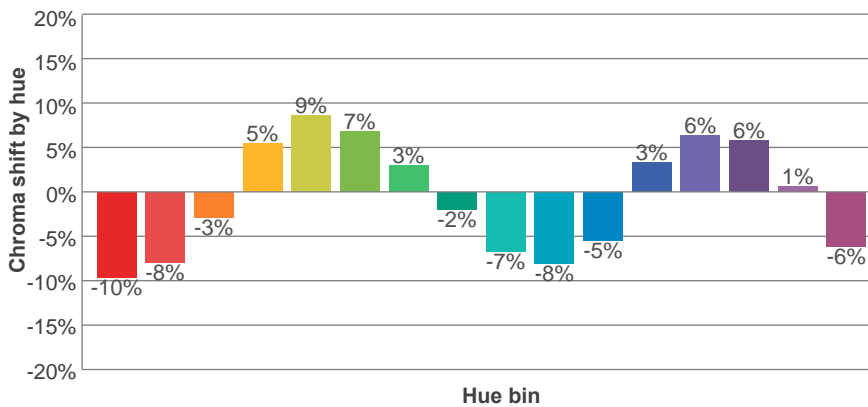
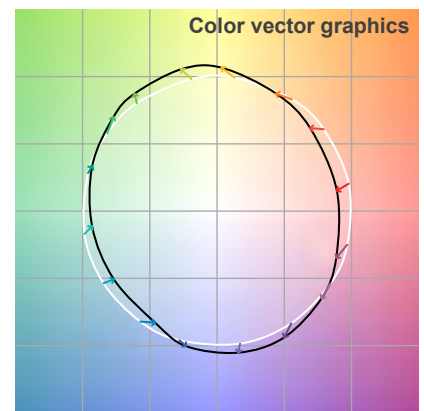
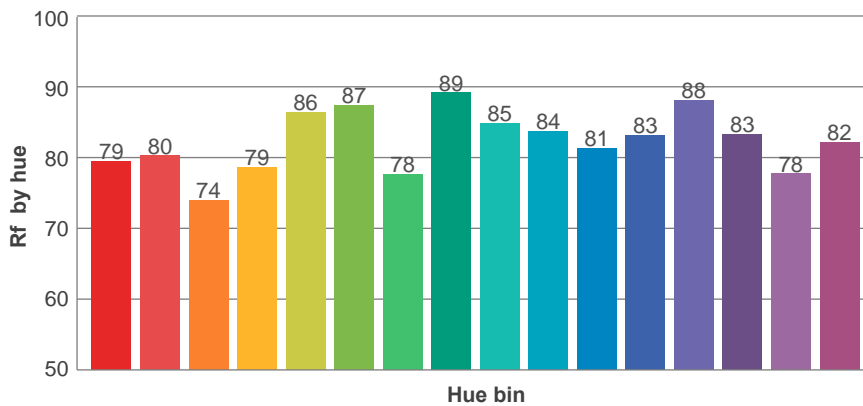
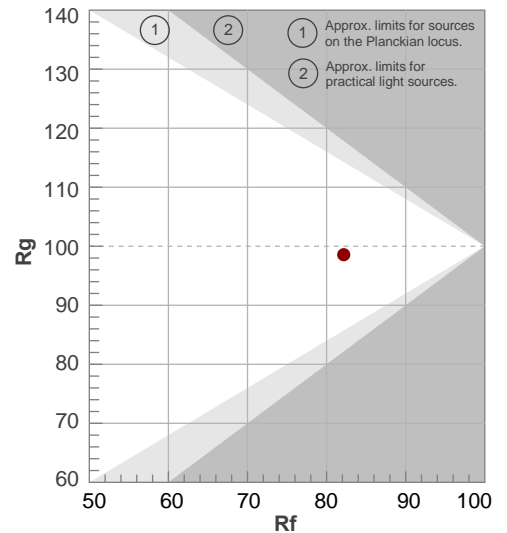
Rf 82.2

Fidelity index Rf

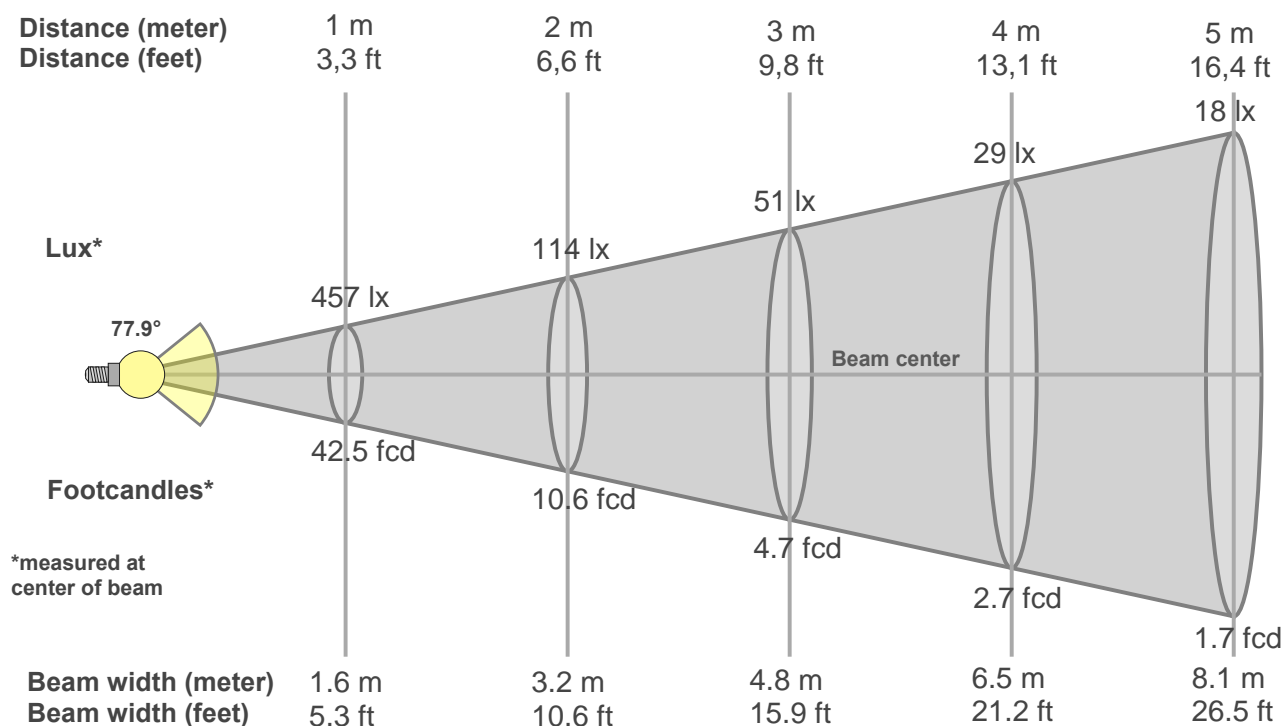
Rg 98.6

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 79 | -10% | -3% |
| 2 | 80 | -8% | 6% |
| 3 | 74 | -3% | 12% |
| 4 | 79 | 5% | 11% |
| 5 | 86 | 9% | 6% |
| 6 | 87 | 7% | -3% |
| 7 | 78 | 3% | -13% |
| 8 | 89 | -2% | -6% |
| 9 | 85 | -7% | -5% |
| 10 | 84 | -8% | 2% |
| 11 | 81 | -5% | 10% |
| 12 | 83 | 3% | 6% |
| 13 | 88 | 6% | -3% |
| 14 | 83 | 6% | -10% |
| 15 | 78 | 1% | -13% |
| 16 | 82 | -6% | -11% |



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 |
| 457lx | 114lx | 51lx | 29lx | 18lx | 13lx | 9lx | 7lx | 6lx | 5lx | 4lx | 3lx | 3lx | 2lx | 2lx | 2lx | 2lx | 1lx | 1lx | 1lx |
| 42.5fcd | 10.6fcd | 4.7fcd | 2.7fcd | 1.7fcd | 1.2fcd | 0.9fcd | 0.7fcd | 0.5fcd | 0.4fcd | 0.4fcd | 0.3fcd | 0.3fcd | 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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 457 | 454 | 446 | 431 | 410 | 379 | 339 | 290 | 236 | 184 | 137 | 100 | 73 | 51 | 35 | 21 | 11 | 4 | 0 | 0 |
| 100% | 99% | 97% | 94% | 90% | 83% | 74% | 63% | 52% | 40% | 30% | 22% | 16% | 11% | 8% | 5% | 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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 457 | 455 | 446 | 432 | 410 | 378 | 337 | 288 | 234 | 183 | 137 | 101 | 73 | 52 | 36 | 23 | 12 | 5 | 0 | 0 |
| 100% | 99% | 98% | 94% | 90% | 83% | 74% | 63% | 51% | 40% | 30% | 22% | 16% | 11% | 8% | 5% | 3% | 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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 457 | 455 | 447 | 432 | 409 | 379 | 338 | 289 | 236 | 183 | 138 | 101 | 73 | 52 | 35 | 22 | 12 | 4 | 1 | 0 |
| 100% | 99% | 98% | 94% | 90% | 83% | 74% | 63% | 52% | 40% | 30% | 22% | 16% | 11% | 8% | 5% | 3% | 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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 457 | 454 | 446 | 431 | 408 | 377 | 338 | 289 | 234 | 182 | 136 | 100 | 71 | 50 | 34 | 21 | 11 | 4 | 1 | 0 |
| 100% | 99% | 97% | 94% | 89% | 83% | 74% | 63% | 51% | 40% | 30% | 22% | 16% | 11% | 7% | 5% | 2% | 1% | 0% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 77.9° | 130.8° | 159.3° | 90.6% | 73.0% |