

Light efficiency:

80 Lumen/Watt

Light quality:

CRI: 81.4

Color temperature:

2944 K

Output: 1573 lm

Peak: 1849 cd

Power: 19.8 W

PF: 0.99



Beam angle

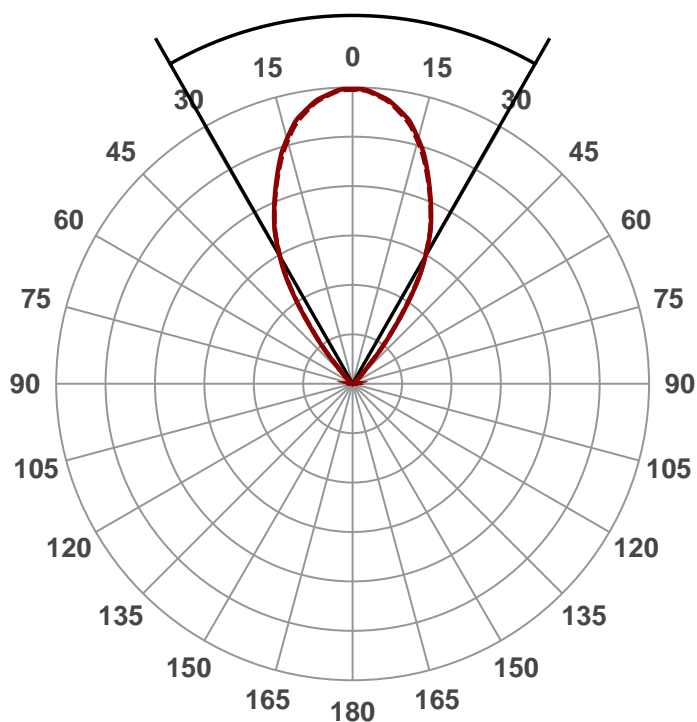
59.4°

Product name:

731-3-XTM19-20LM-30K-83-SSA60

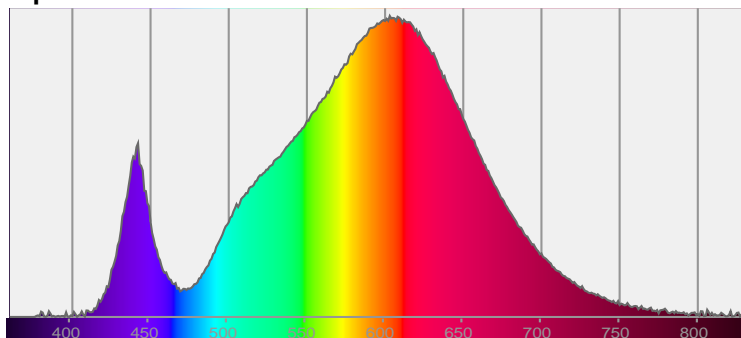
Date and time:

11/29/2016 10:20:34 AM

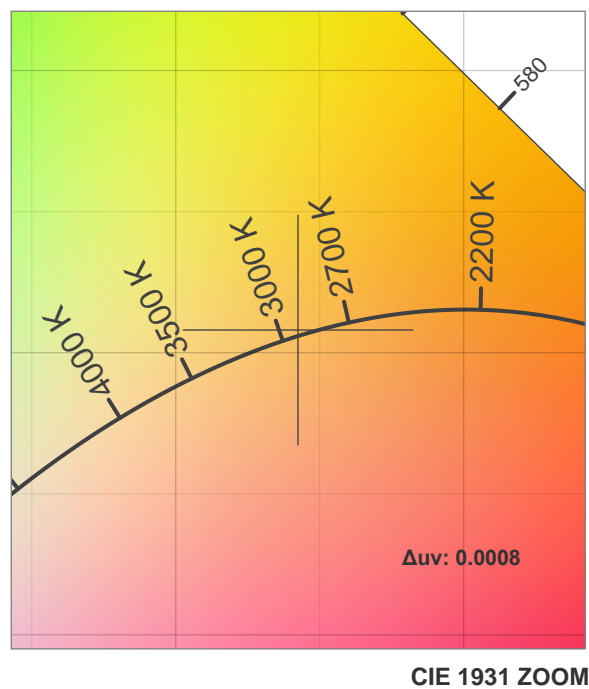
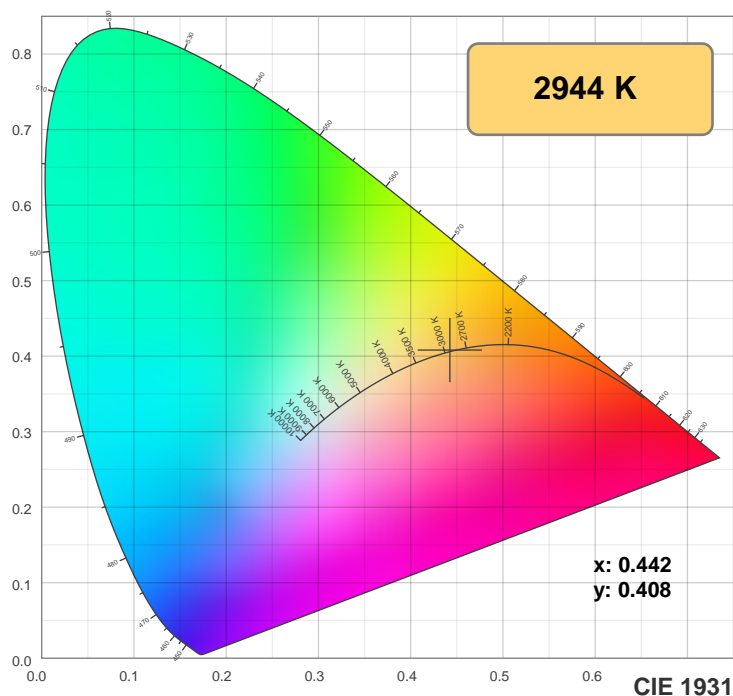


CIE 1931
x: 0.442
y: 0.408

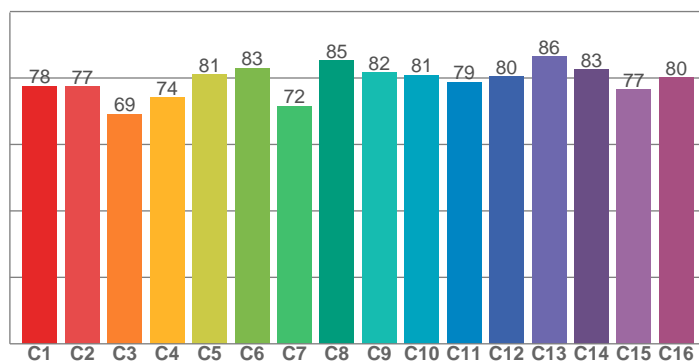
Spectra



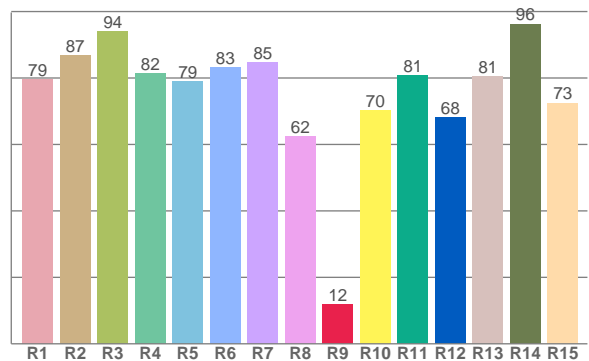
Color details



TM30: 79.0



CRI: 81.4 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.5 | 86.8 | 94.0 | 81.5 | 79.1 | 83.2 | 84.6 | 62.5 | 11.9 | 70.3 | 80.9 | 68.1 | 80.5 | 96.3 | 72.5 |

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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 77.6 | 77.5 | 69.2 | 74.2 | 81.1 | 83.0 | 71.6 | 85.4 | 81.6 | 80.9 | 78.8 | 80.4 | 86.5 | 82.6 | 76.6 | 80.2 |

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 |
| 2944 K | 81.4 | 11.9 | 79.0 | 99.6 | 0.442 | 0.408 | 0.252 | 0.349 | 0.0008 |

TM30 details

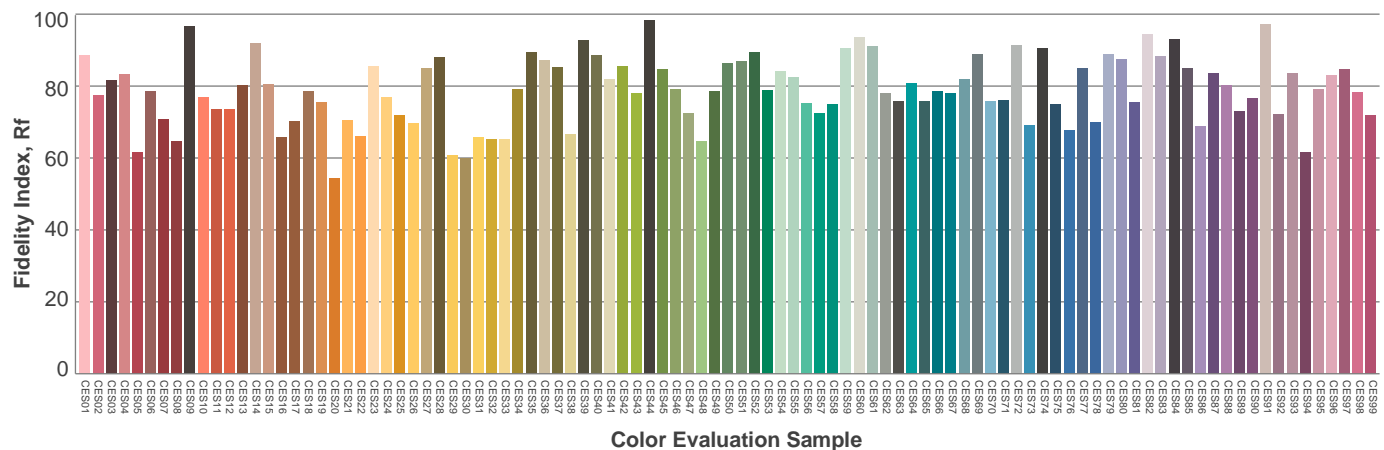
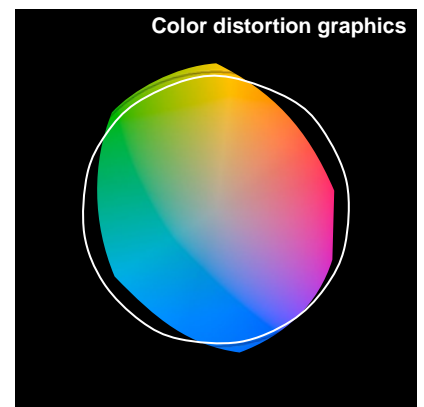
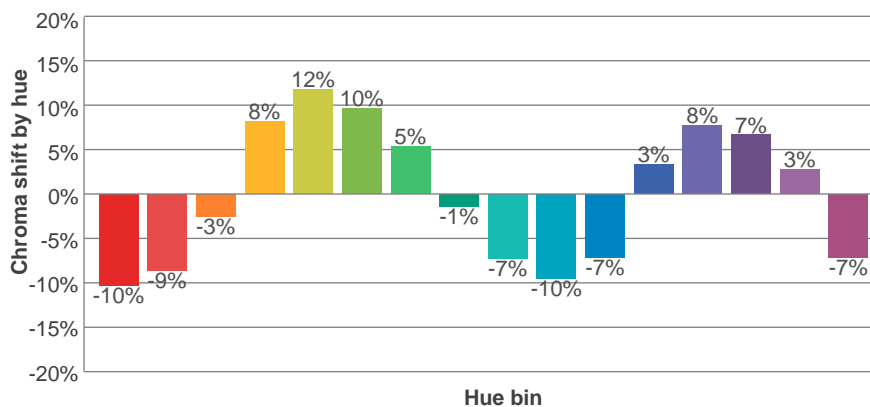
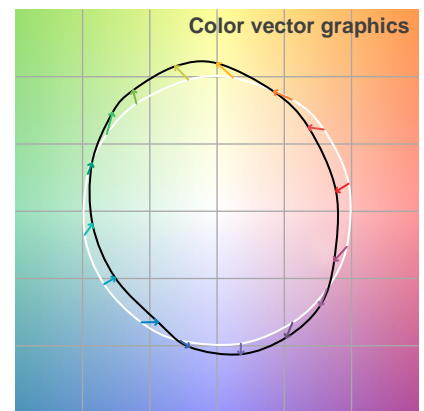
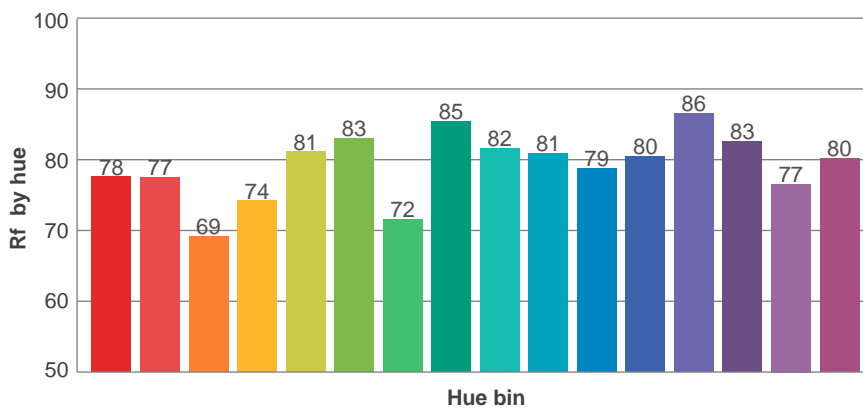
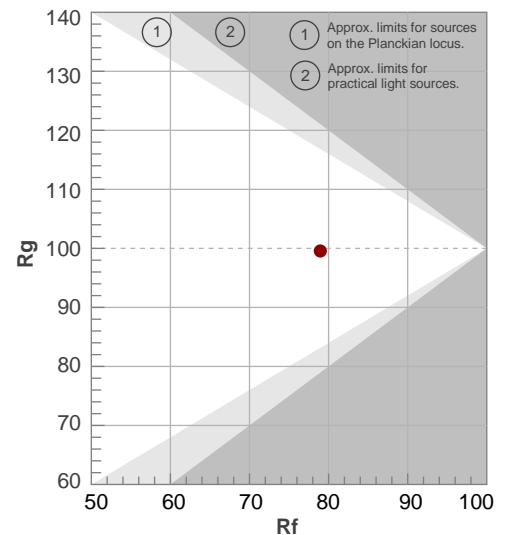
Rf 79.0

Fidelity index Rf

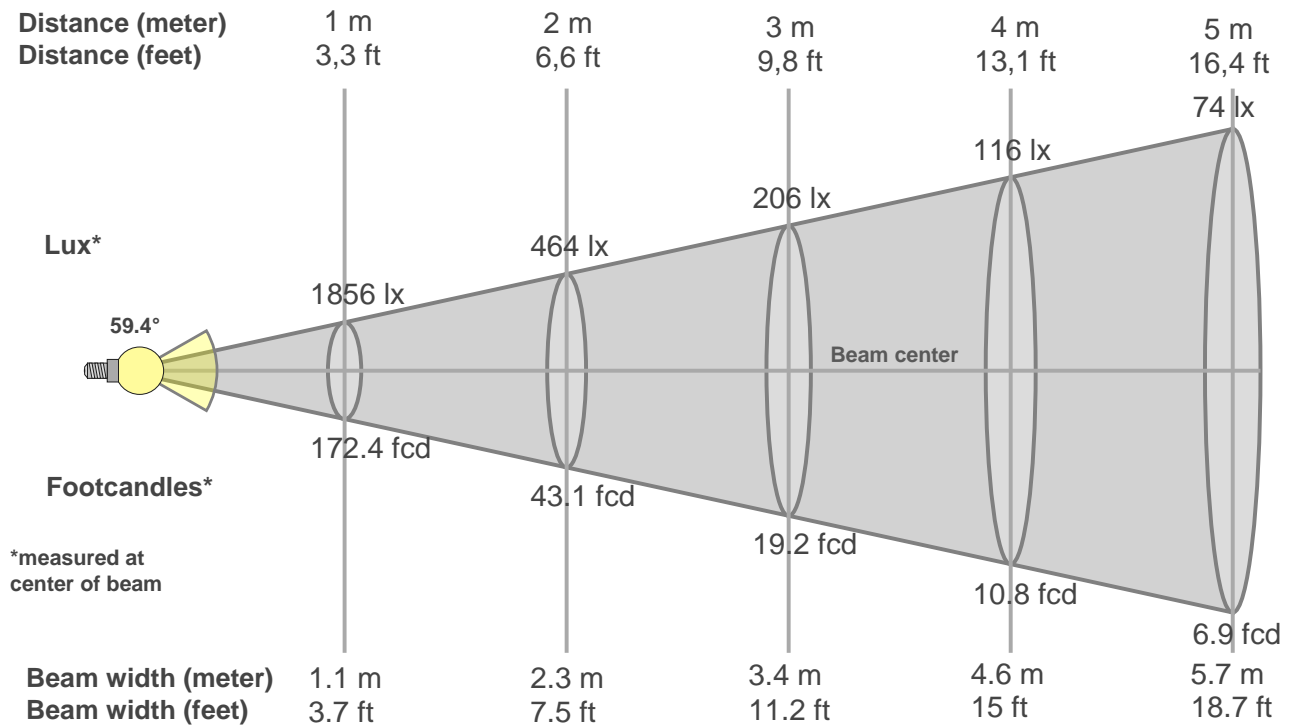
Rg 99.6

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 78 | -10% | -4% |
| 2 | 77 | -9% | 8% |
| 3 | 69 | -3% | 15% |
| 4 | 74 | 8% | 14% |
| 5 | 81 | 12% | 8% |
| 6 | 83 | 10% | -3% |
| 7 | 72 | 5% | -15% |
| 8 | 85 | -1% | -8% |
| 9 | 82 | -7% | -7% |
| 10 | 81 | -10% | 1% |
| 11 | 79 | -7% | 10% |
| 12 | 80 | 3% | 7% |
| 13 | 86 | 8% | -2% |
| 14 | 83 | 7% | -10% |
| 15 | 77 | 3% | -13% |
| 16 | 80 | -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 |
| 1856lx | 464lx | 206lx | 116lx | 74lx | 52lx | 38lx | 29lx | 23lx | 19lx | 15lx | 13lx | 11lx | 9lx | 8lx | 7lx | 6lx | 6lx | 5lx | 5lx |
| 172.4fcd | 43.1fcd | 19.2fcd | 10.8fcd | 6.9fcd | 4.8fcd | 3.5fcd | 2.7fcd | 2.1fcd | 1.7fcd | 1.4fcd | 1.2fcd | 1fcd | 0.9fcd | 0.8fcd | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 1856 | 1856 | 1838 | 1815 | 1785 | 1742 | 1699 | 1632 | 1561 | 1481 | 1391 | 1301 | 1214 | 1126 | 1024 | 910 | 790 | 641 | 491 | 360 |
| 100% | 100% | 99% | 98% | 96% | 94% | 92% | 88% | 84% | 80% | 75% | 70% | 65% | 61% | 55% | 49% | 43% | 35% | 26% | 19% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 1856 | 1854 | 1837 | 1812 | 1781 | 1735 | 1687 | 1622 | 1551 | 1471 | 1384 | 1298 | 1211 | 1124 | 1022 | 906 | 781 | 632 | 481 | 348 |
| 100% | 100% | 99% | 98% | 96% | 94% | 91% | 87% | 84% | 79% | 75% | 70% | 65% | 61% | 55% | 49% | 42% | 34% | 26% | 19% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 1856 | 1856 | 1838 | 1815 | 1785 | 1742 | 1699 | 1632 | 1561 | 1481 | 1391 | 1301 | 1214 | 1126 | 1024 | 910 | 790 | 641 | 491 | 360 |
| 100% | 100% | 99% | 98% | 96% | 94% | 92% | 88% | 84% | 80% | 75% | 70% | 65% | 61% | 55% | 49% | 43% | 35% | 26% | 19% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 1856 | 1854 | 1837 | 1812 | 1781 | 1735 | 1687 | 1622 | 1551 | 1471 | 1384 | 1298 | 1211 | 1124 | 1022 | 906 | 781 | 632 | 481 | 348 |
| 100% | 100% | 99% | 98% | 96% | 94% | 91% | 87% | 84% | 79% | 75% | 70% | 65% | 61% | 55% | 49% | 42% | 34% | 26% | 19% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 59.4° | 82° | 93.5° | 99.5% | 97.6% |