

Light efficiency:

65 Lumen/Watt

Light quality:

CRI: 82.5

Color temperature:

2933 K

Output: 1271 lm

Peak: 6716 cd

Power: 19.4 W

PF: 0.99



Beam angle

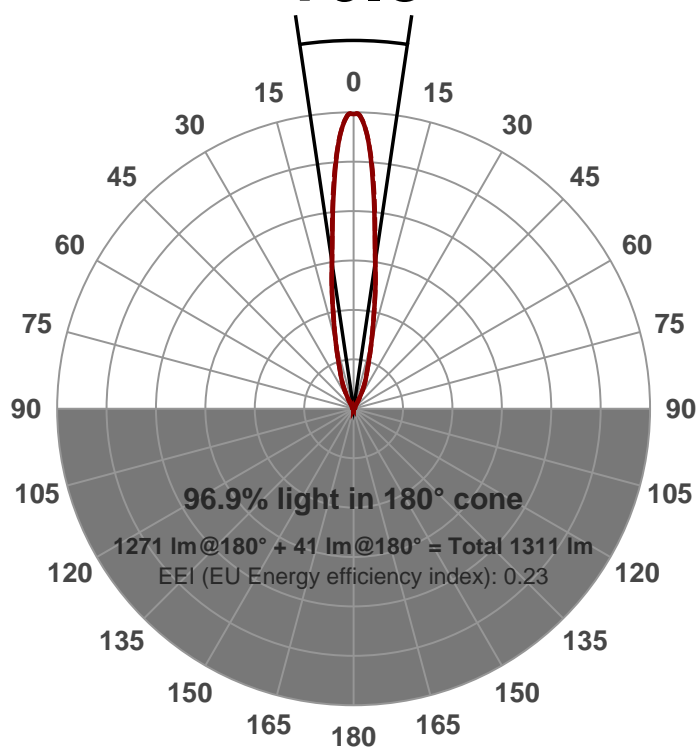
16.8°

Product name:

730-3-XTM19-20LM-30K-83-SA20-CRO

Date and time:

9/29/2016 2:42:06 PM

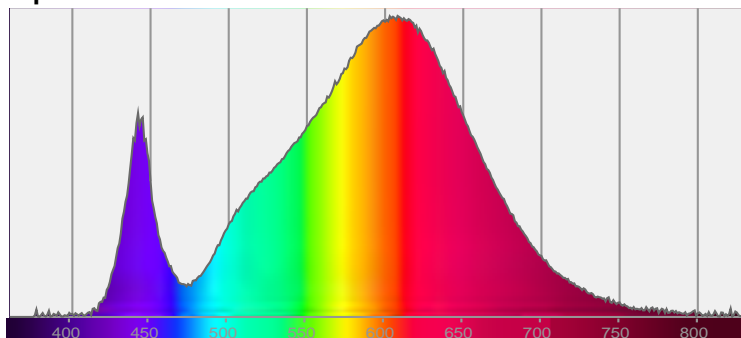


CIE 1931

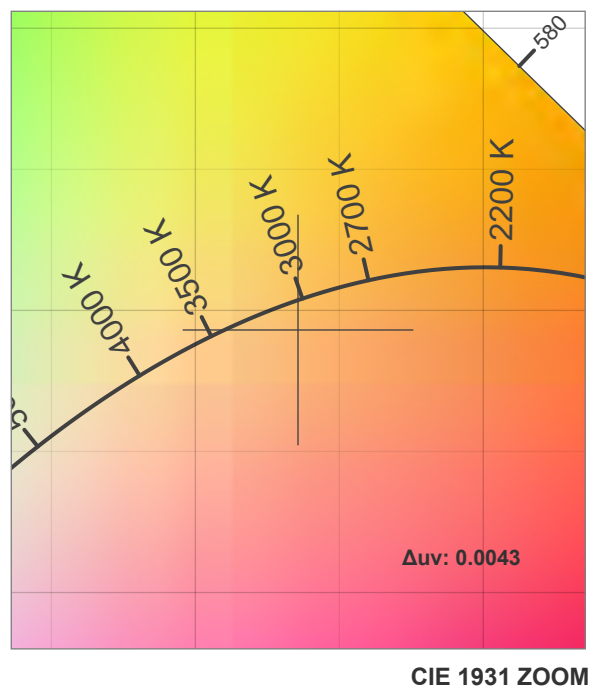
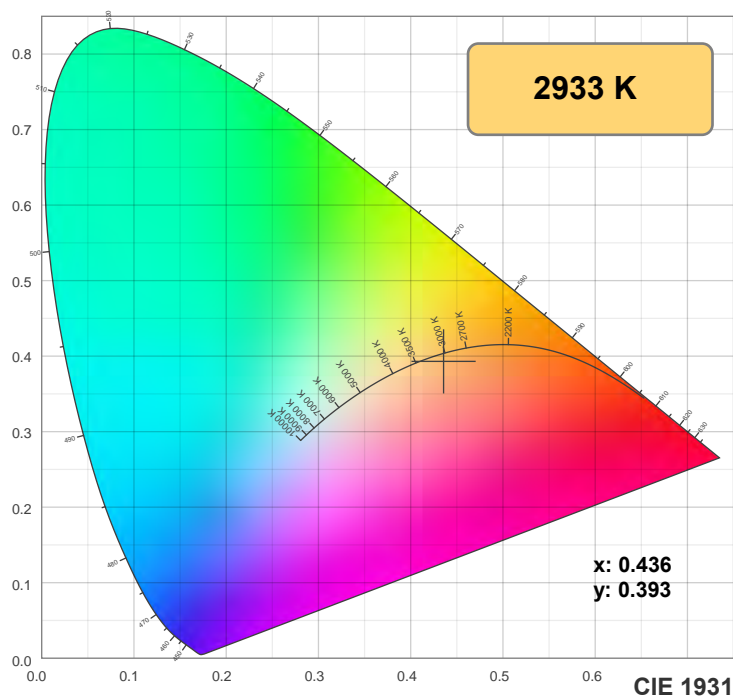
x: 0.436

y: 0.393

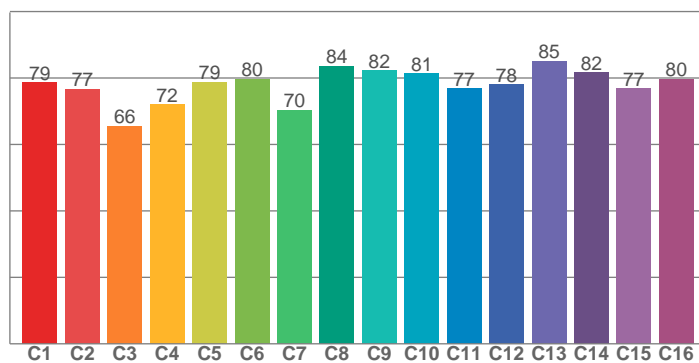
Spectra



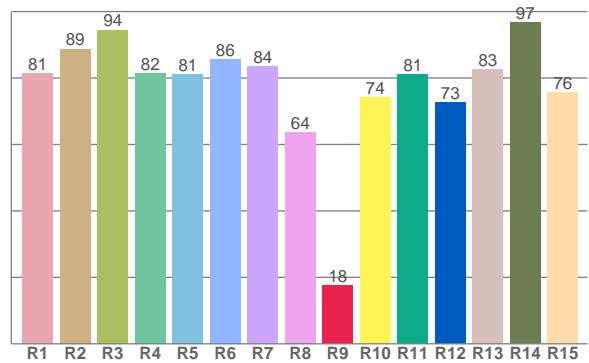
Color details



TM30: 77.8



CRI: 82.5 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 81.4 | 88.8 | 94.5 | 81.5 | 81.1 | 85.5 | 83.5 | 63.7 | 17.6 | 74.2 | 81.0 | 72.8 | 82.7 | 96.6 | 75.7 |

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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78.7 | 76.7 | 65.6 | 71.9 | 78.8 | 79.7 | 70.4 | 83.6 | 82.3 | 81.3 | 76.8 | 78.1 | 85.1 | 81.6 | 76.8 | 79.7 |

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 |
| 2933 K | 82.5 | 17.6 | 77.8 | 101.7 | 0.436 | 0.393 | 0.255 | 0.345 | 0.0043 |

TM30 details

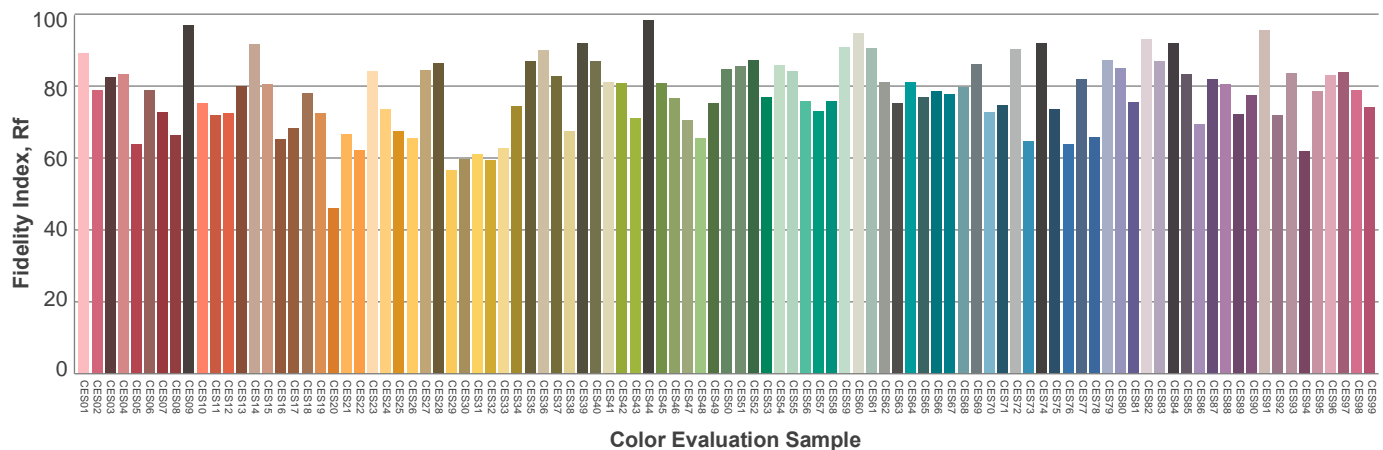
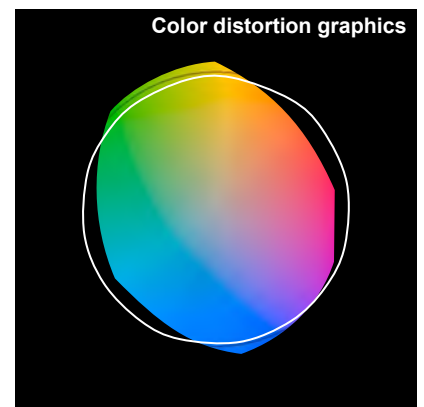
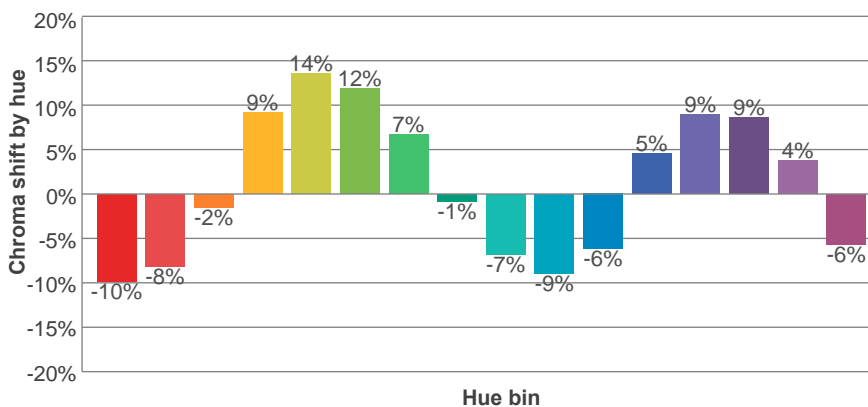
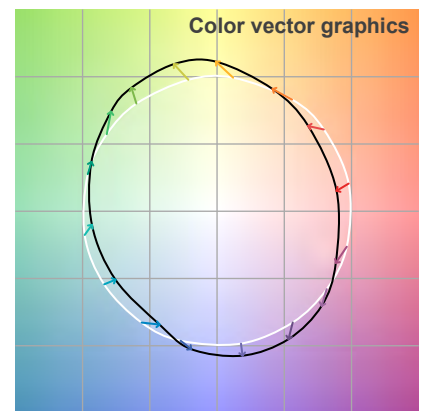
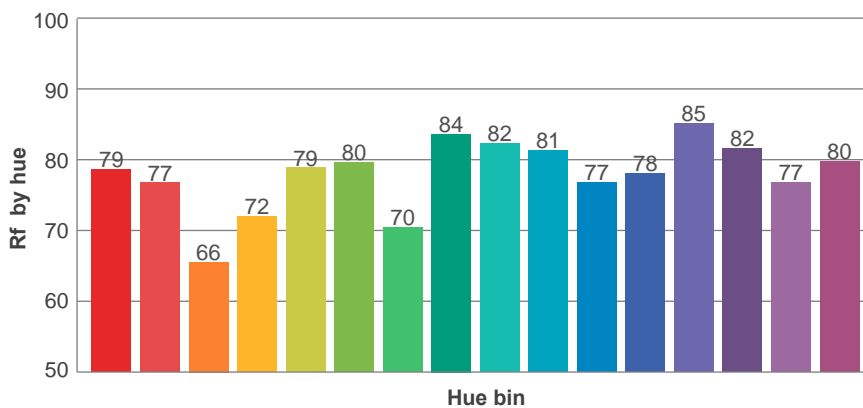
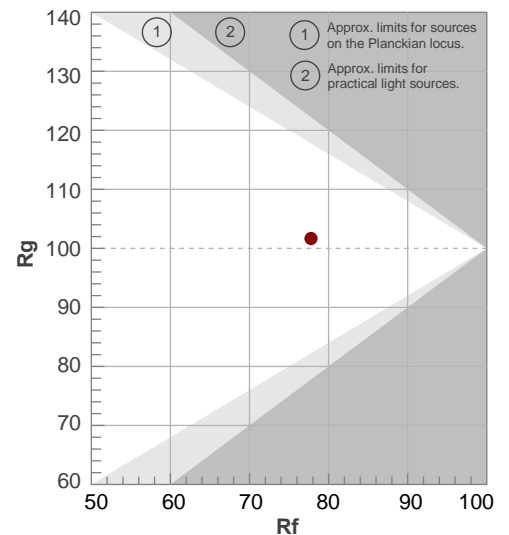
Rf 77.8

Fidelity index Rf

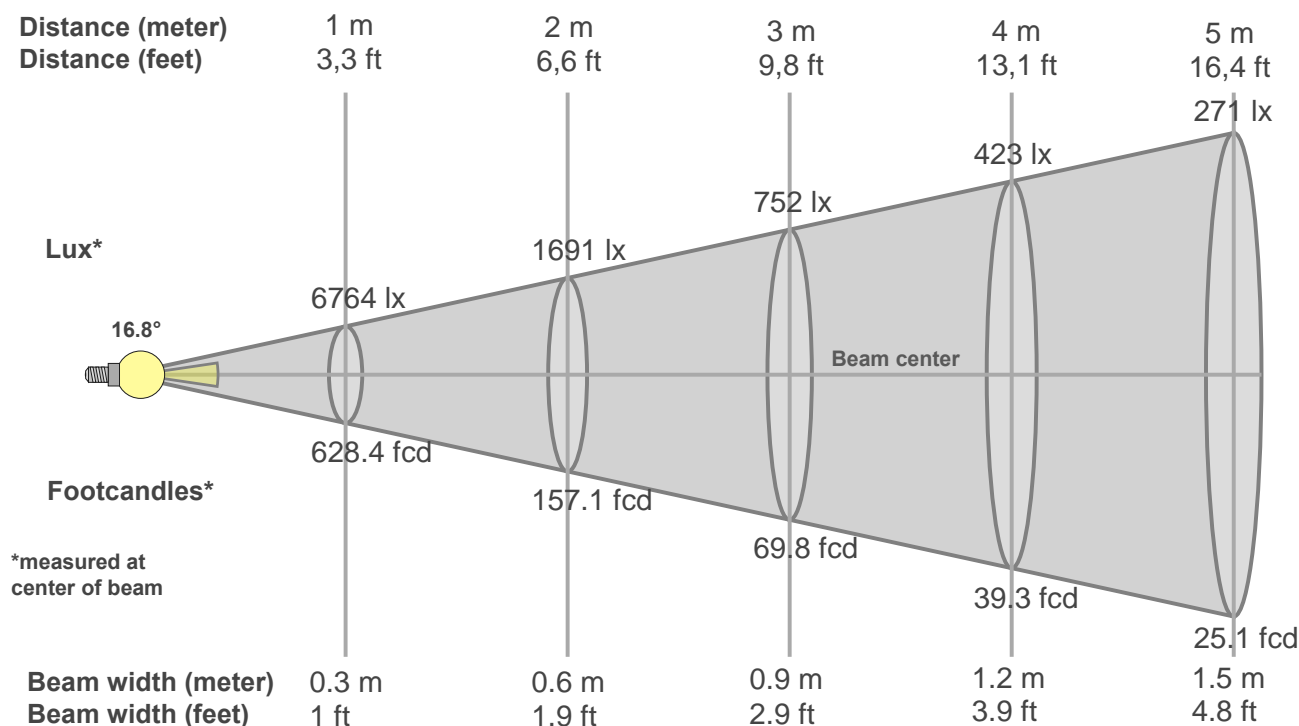
Rg 101.7

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 79 | -10% | -4% |
| 2 | 77 | -8% | 9% |
| 3 | 66 | -2% | 16% |
| 4 | 72 | 9% | 15% |
| 5 | 79 | 14% | 8% |
| 6 | 80 | 12% | -3% |
| 7 | 70 | 7% | -16% |
| 8 | 84 | -1% | -9% |
| 9 | 82 | -7% | -6% |
| 10 | 81 | -9% | 2% |
| 11 | 77 | -6% | 12% |
| 12 | 78 | 5% | 9% |
| 13 | 85 | 9% | -1% |
| 14 | 82 | 9% | -10% |
| 15 | 77 | 4% | -12% |
| 16 | 80 | -6% | -13% |



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 |
| 6764lx | 1691lx | 752lx | 423lx | 271lx | 188lx | 138lx | 106lx | 84lx | 68lx | 56lx | 47lx | 40lx | 35lx | 30lx | 26lx | 23lx | 21lx | 19lx | 17lx |
| 628.4fcd | 157.1fcd | 69.8fcd | 39.3fcd | 25.1fcd | 17.5fcd | 12.8fcd | 9.8fcd | 7.8fcd | 6.3fcd | 5.2fcd | 4.4fcd | 3.7fcd | 3.2fcd | 2.8fcd | 2.5fcd | 2.2fcd | 1.9fcd | 1.7fcd | 1.6fcd |

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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 6764 | 6502 | 5678 | 4523 | 3523 | 2872 | 2238 | 1764 | 1395 | 1099 | 884 | 742 | 591 | 438 | 301 | 184 | 99 | 66 | 59 | 54 |
| 100% | 96% | 84% | 67% | 52% | 42% | 33% | 26% | 21% | 16% | 13% | 11% | 9% | 6% | 4% | 3% | 1% | 1% | 1% | 1% |

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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 6764 | 6510 | 5722 | 4592 | 3517 | 2846 | 2229 | 1758 | 1396 | 1103 | 888 | 744 | 599 | 446 | 301 | 177 | 93 | 63 | 57 | 53 |
| 100% | 96% | 85% | 68% | 52% | 42% | 33% | 26% | 21% | 16% | 13% | 11% | 9% | 7% | 4% | 3% | 1% | 1% | 1% | 1% |

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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 6764 | 6502 | 5678 | 4523 | 3523 | 2872 | 2238 | 1764 | 1395 | 1099 | 884 | 742 | 591 | 438 | 301 | 184 | 99 | 66 | 59 | 54 |
| 100% | 96% | 84% | 67% | 52% | 42% | 33% | 26% | 21% | 16% | 13% | 11% | 9% | 6% | 4% | 3% | 1% | 1% | 1% | 1% |

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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 6764 | 6510 | 5722 | 4592 | 3517 | 2846 | 2229 | 1758 | 1396 | 1103 | 888 | 744 | 599 | 446 | 301 | 177 | 93 | 63 | 57 | 53 |
| 100% | 96% | 85% | 68% | 52% | 42% | 33% | 26% | 21% | 16% | 13% | 11% | 9% | 7% | 4% | 3% | 1% | 1% | 1% | 1% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 16.8° | 45.8° | 60.5° | 91.5% | 87.4% |