

Light efficiency:

72 Lumen/Watt

Light quality:

CRI: 80.4

Color temperature:

2919 K

Output: 3754 lm

Peak: 9591 cd

Power: 52.3 W

PF: 0.99

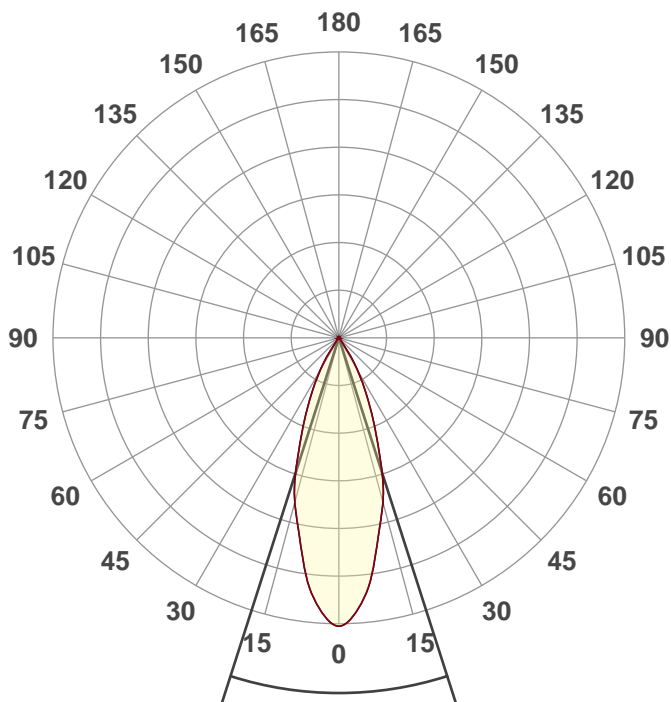


Product name:

E680-4-XTM19-50LM-30K-83-CAS35-DIM10-WH-RP

Date and time:

7/2/2019 3:08:03 PM



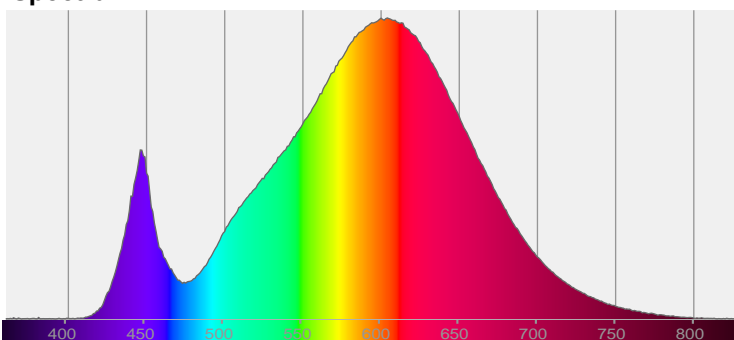
Beam angle

35.5°

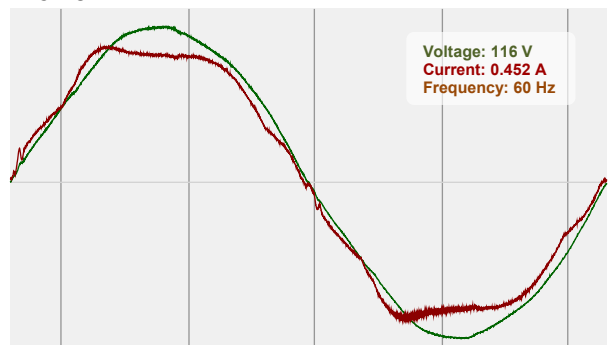


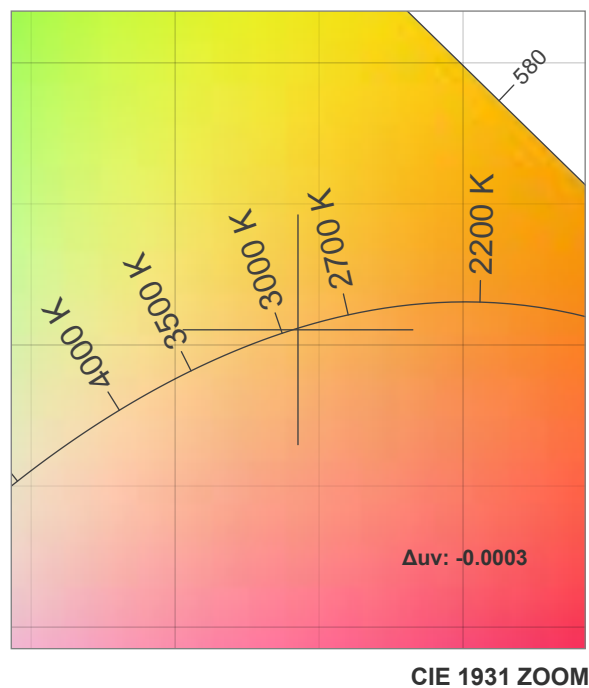
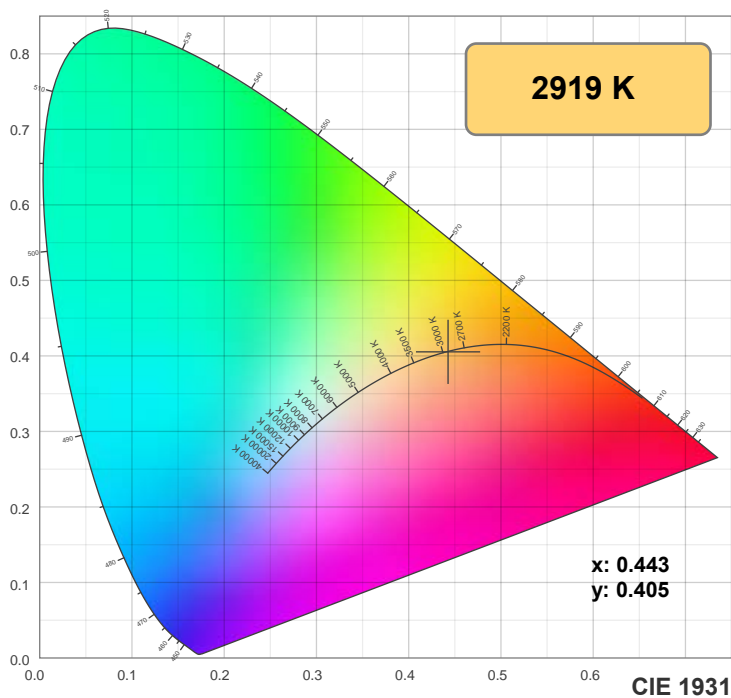
CIE 1931
x: 0.443
y: 0.405

Spectra

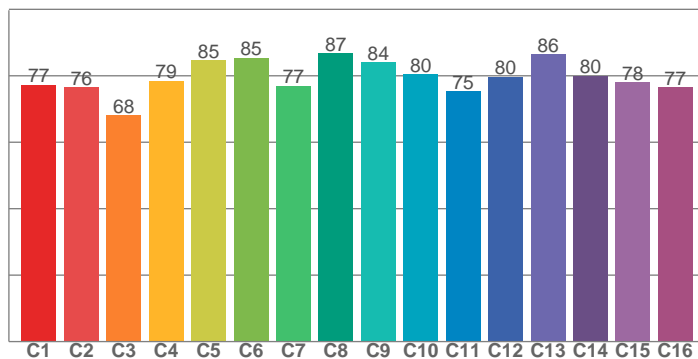


Power

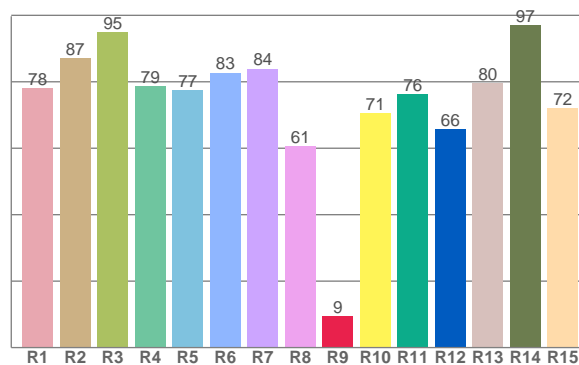




TM30: 79.4



CRI: 80.4 (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 |
|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 78.1 | 87.1 | 94.9 | 78.7 | 77.4 | 82.7 | 83.9 | 60.6 | 9.4 | 70.6 | 76.3 | 65.6 | 79.6 | 97.0 | 72.0 |

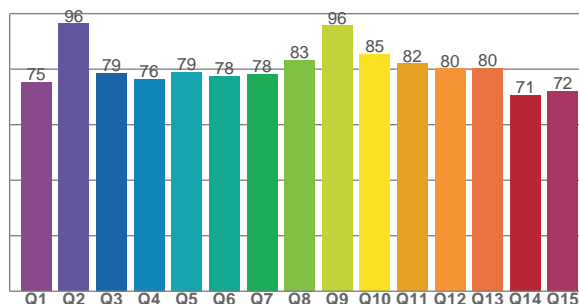
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 77.3 | 76.5 | 68.1 | 78.5 | 84.7 | 85.4 | 76.9 | 86.7 | 84.0 | 80.4 | 75.4 | 79.7 | 86.4 | 80.0 | 78.0 | 76.5 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 75.2 | 96.4 | 78.6 | 76.4 | 79.0 | 77.5 | 78.2 | 83.3 | 95.8 | 85.4 | 82.0 | 80.3 | 80.3 | 70.8 | 72.1 |

CQS: 79.4



Color parameters

| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | 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 | CQS | x | y | u | v | Δuv |
| 2919 K | 80.4 | 9.4 | 79.4 | 98.3 | 79.4 | 0.443 | 0.405 | 0.254 | 0.349 | -0.0003 |

TM30 Details

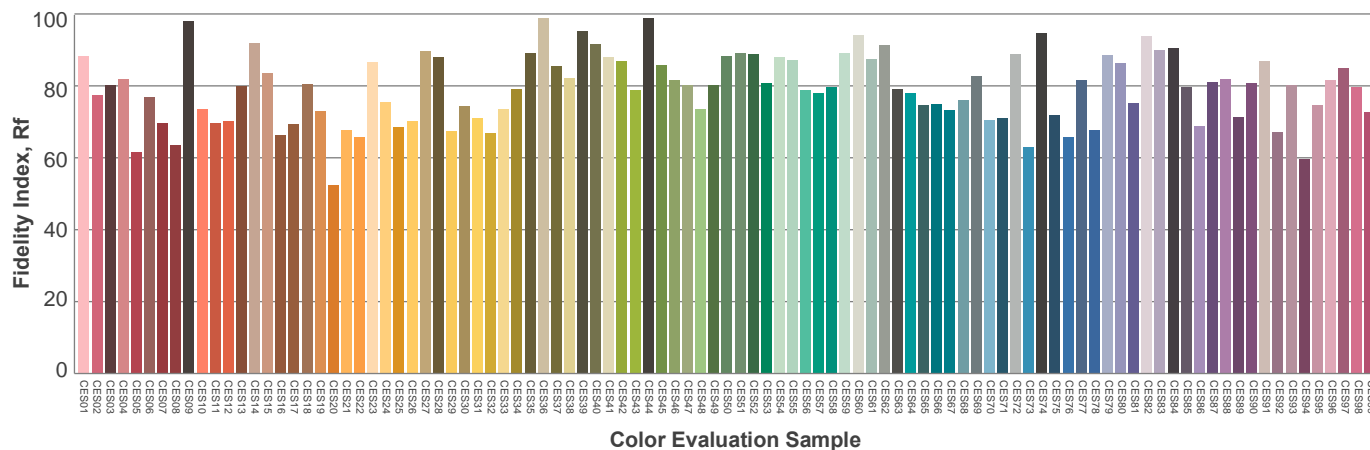
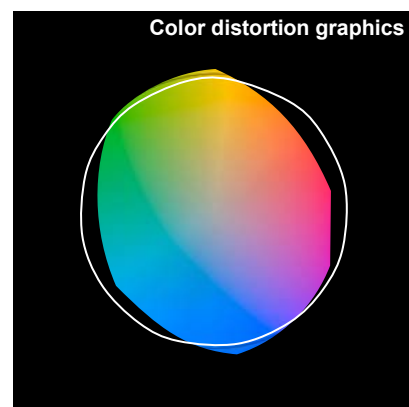
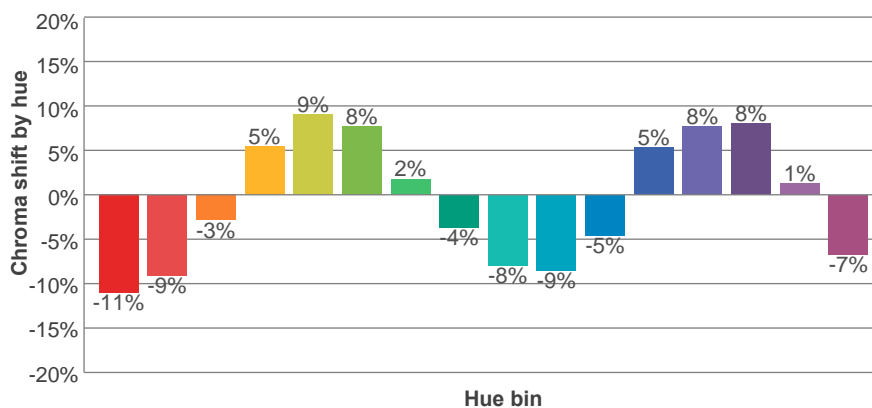
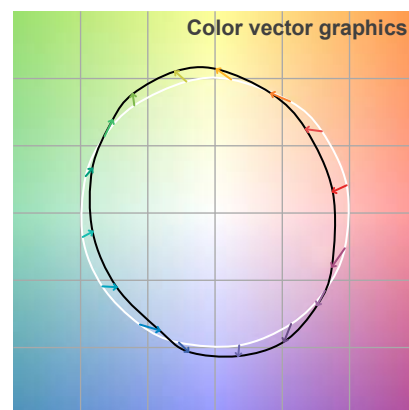
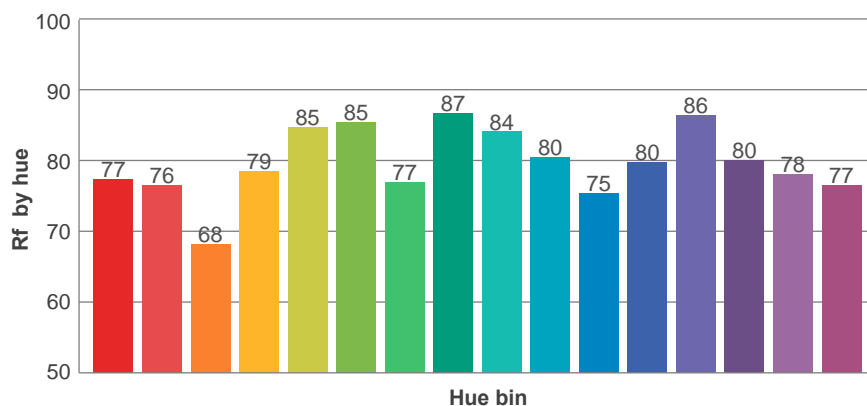
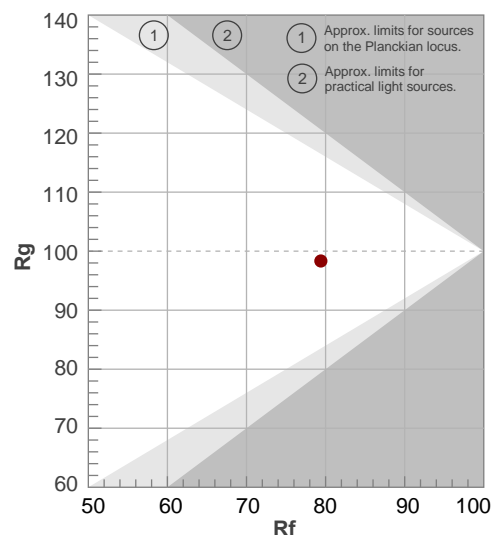
Rf 79.4

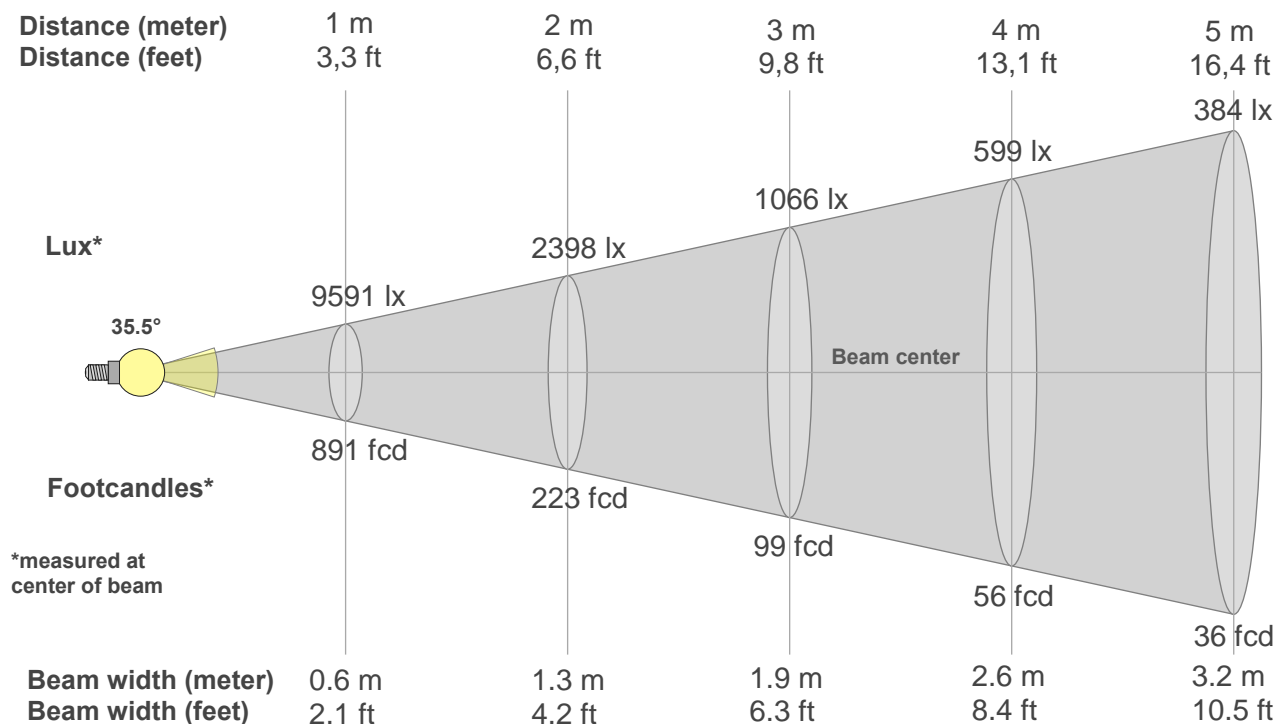
Fidelity index Rf

Rg 98.3

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 77 | -11% | -3% |
| 2 | 76 | -9% | 8% |
| 3 | 68 | -3% | 15% |
| 4 | 79 | 5% | 12% |
| 5 | 85 | 9% | 7% |
| 6 | 85 | 8% | -4% |
| 7 | 77 | 2% | -13% |
| 8 | 87 | -4% | -6% |
| 9 | 84 | -8% | -2% |
| 10 | 80 | -9% | 6% |
| 11 | 75 | -5% | 15% |
| 12 | 80 | 5% | 8% |
| 13 | 86 | 8% | -2% |
| 14 | 80 | 8% | -12% |
| 15 | 78 | 1% | -12% |
| 16 | 77 | -7% | -15% |





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 |
| 9591lx | 2398lx | 1066lx | 599lx | 384lx | 266lx | 196lx | 150lx | 118lx | 96lx | 79lx | 67lx | 57lx | 49lx | 43lx | 37lx | 33lx | 30lx | 27lx | 24lx |
| 891fcd | 222.8fcd | 99fcd | 55.7fcd | 35.6fcd | 24.8fcd | 18.2fcd | 13.9fcd | 11fcd | 8.9fcd | 7.4fcd | 6.2fcd | 5.3fcd | 4.5fcd | 4fcd | 3.5fcd | 3.1fcd | 2.8fcd | 2.5fcd | 2.2fcd |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| 9591 | 9553 | 9102 | 8651 | 8025 | 7296 | 6591 | 6006 | 5420 | 4705 | 3938 | 3226 | 2675 | 2124 | 1683 | 1268 | 879 | 540 | 201 | 115 |
| 100% | 100% | 95% | 90% | 84% | 76% | 69% | 63% | 57% | 49% | 41% | 34% | 28% | 22% | 18% | 13% | 9% | 6% | 2% | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| 9591 | 9553 | 9102 | 8651 | 8025 | 7296 | 6591 | 6006 | 5420 | 4705 | 3938 | 3226 | 2675 | 2124 | 1683 | 1268 | 879 | 540 | 201 | 115 |
| 100% | 100% | 95% | 90% | 84% | 76% | 69% | 63% | 57% | 49% | 41% | 34% | 28% | 22% | 18% | 13% | 9% | 6% | 2% | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| 9591 | 9553 | 9102 | 8651 | 8025 | 7296 | 6591 | 6006 | 5420 | 4705 | 3938 | 3226 | 2675 | 2124 | 1683 | 1268 | 879 | 540 | 201 | 115 |
| 100% | 100% | 95% | 90% | 84% | 76% | 69% | 63% | 57% | 49% | 41% | 34% | 28% | 22% | 18% | 13% | 9% | 6% | 2% | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| 9591 | 9553 | 9102 | 8651 | 8025 | 7296 | 6591 | 6006 | 5420 | 4705 | 3938 | 3226 | 2675 | 2124 | 1683 | 1268 | 879 | 540 | 201 | 115 |
| 100% | 100% | 95% | 90% | 84% | 76% | 69% | 63% | 57% | 49% | 41% | 34% | 28% | 22% | 18% | 13% | 9% | 6% | 2% | 1% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 35.5° | 63.1° | 71.5° | 99.6% | 99.3% |