

Light efficiency:

72 Lumen/Watt

Light quality:

CRI: 82.7

Color temperature:

2930 K

Output: 1367 lm

Peak: 1742 cd

Power: 19.0 W

PF: 0.99

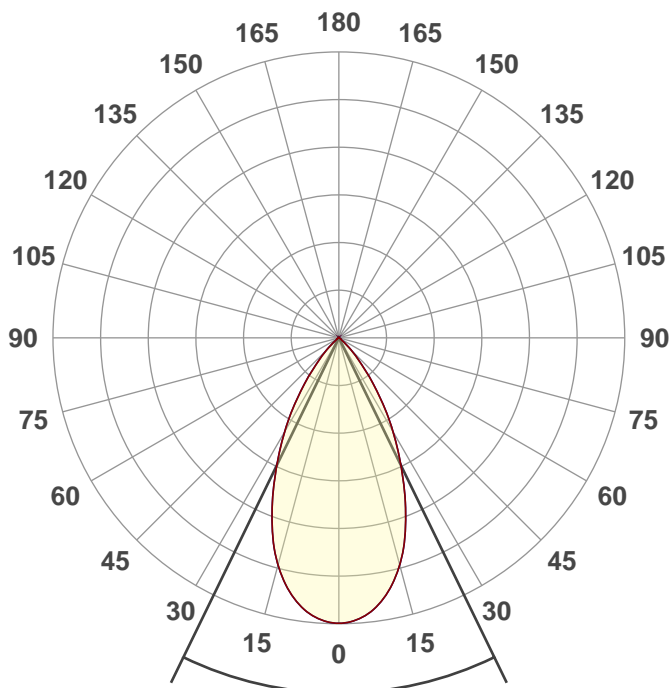


Product name:

A15-3-XTM19-20LM-30K-83-S50-120-DIM10-WH-WH-P

Date and time:

1/23/2019 9:44:40 AM



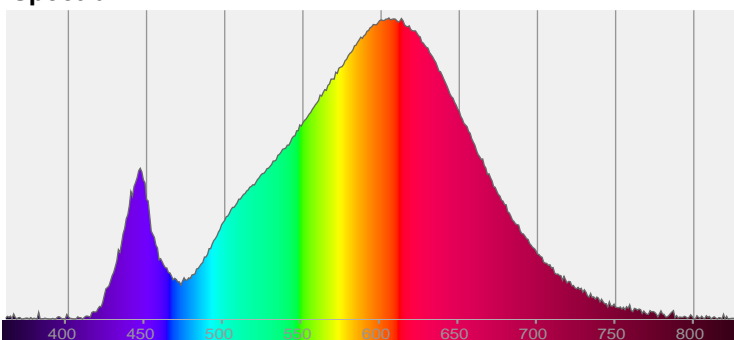
Beam angle

51.9°

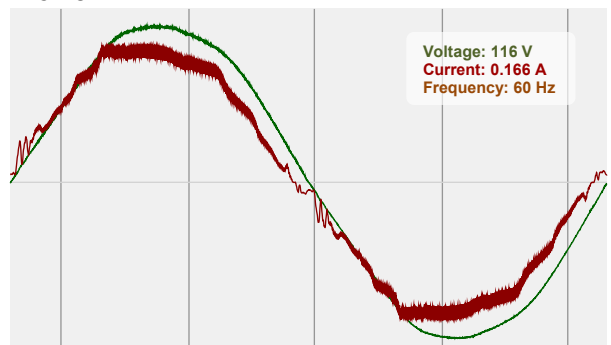


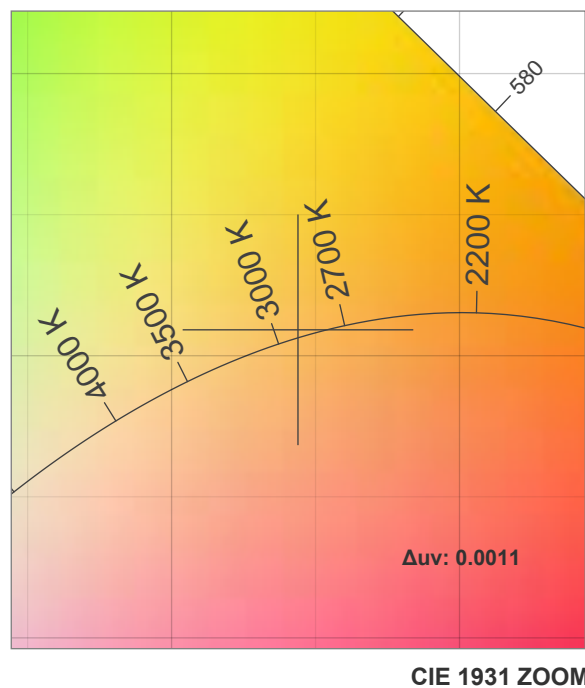
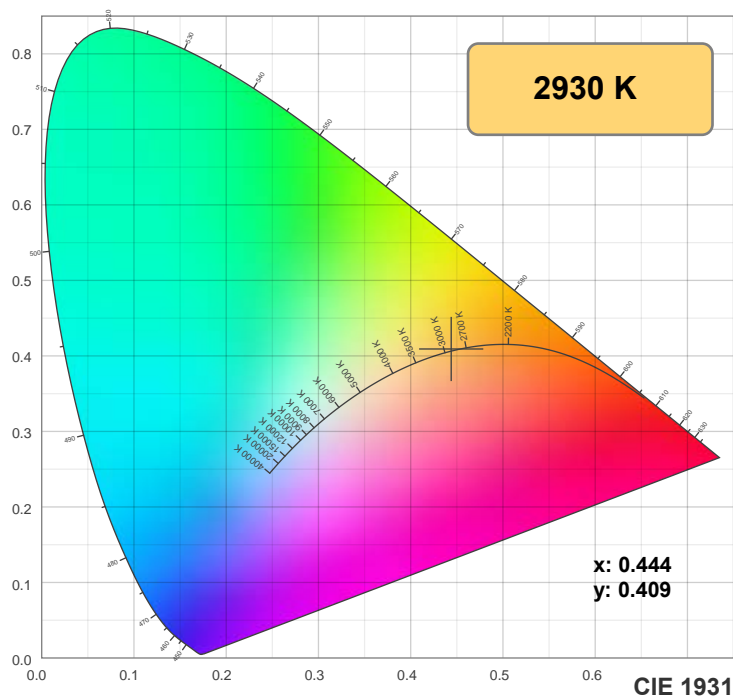
CIE 1931
x: 0.444
y: 0.409

Spectra

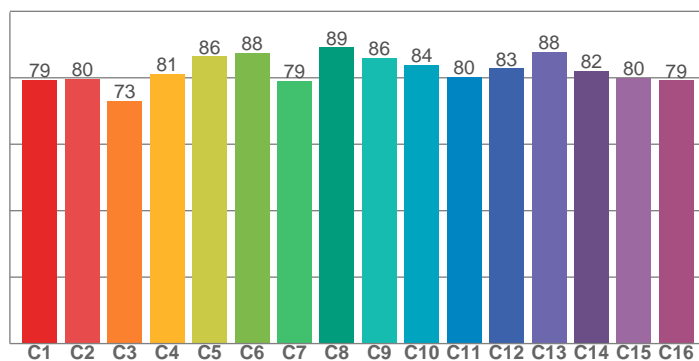


Power

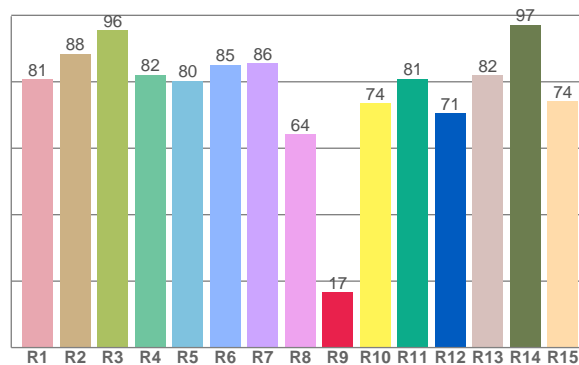




TM30: 82.1



CRI: 82.7 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.7 | 88.4 | 95.5 | 82.2 | 80.3 | 85.1 | 85.7 | 64.1 | 16.7 | 73.6 | 80.9 | 70.6 | 82.0 | 97.2 | 74.2 |

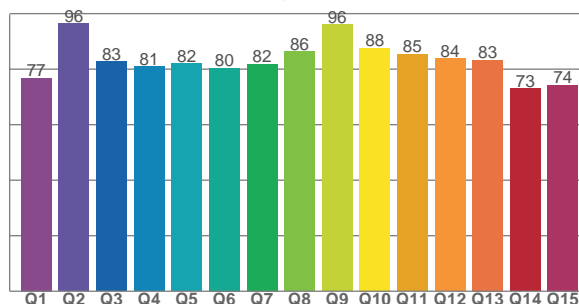
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.4 | 79.6 | 73.1 | 81.2 | 86.5 | 87.5 | 79.0 | 89.2 | 86.0 | 83.8 | 80.2 | 82.8 | 87.7 | 82.1 | 79.9 | 79.2 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 76.8 | 96.4 | 82.7 | 80.9 | 82.0 | 80.5 | 81.9 | 86.4 | 96.1 | 87.7 | 85.4 | 83.8 | 83.2 | 73.0 | 74.2 |

CQS: 82.1



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 |
| 2930 K | 82.7 | 16.7 | 82.1 | 98.5 | 82.1 | 0.444 | 0.409 | 0.253 | 0.350 | 0.0011 |

TM30 Details

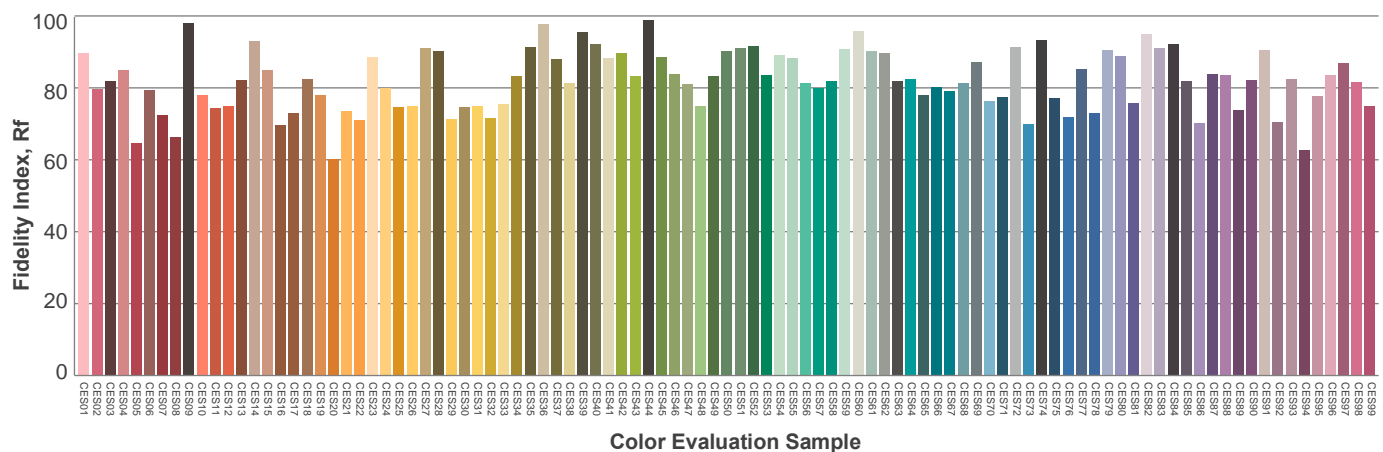
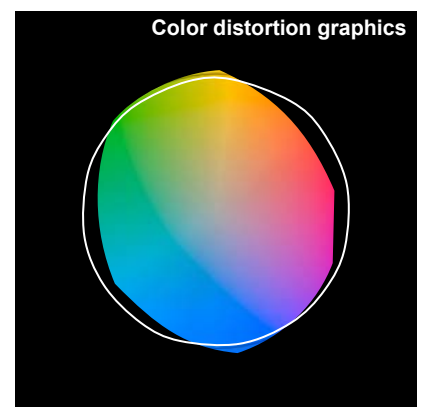
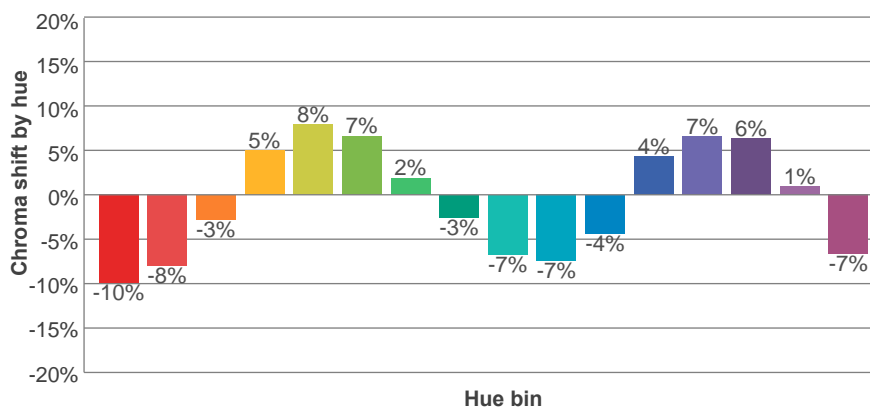
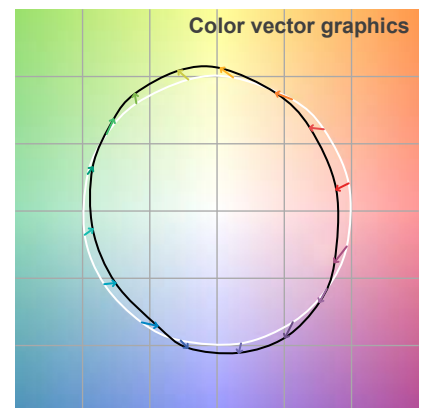
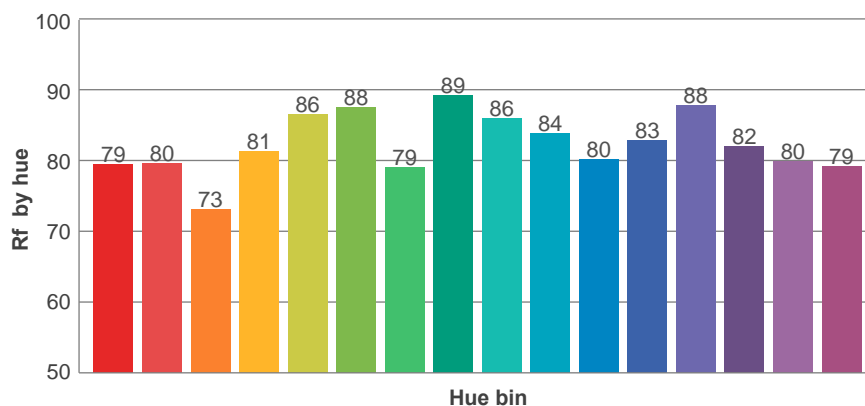
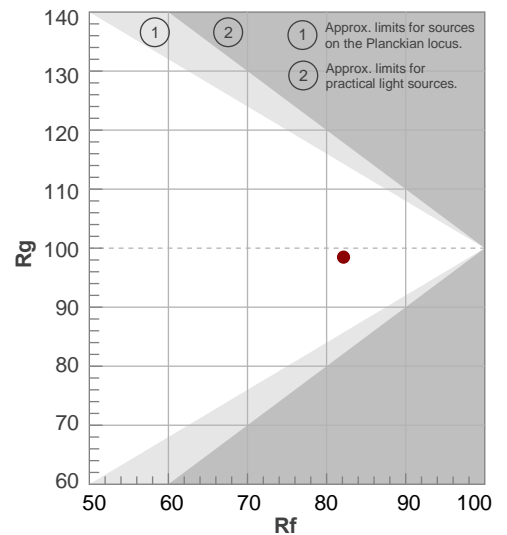
Rf 82.1

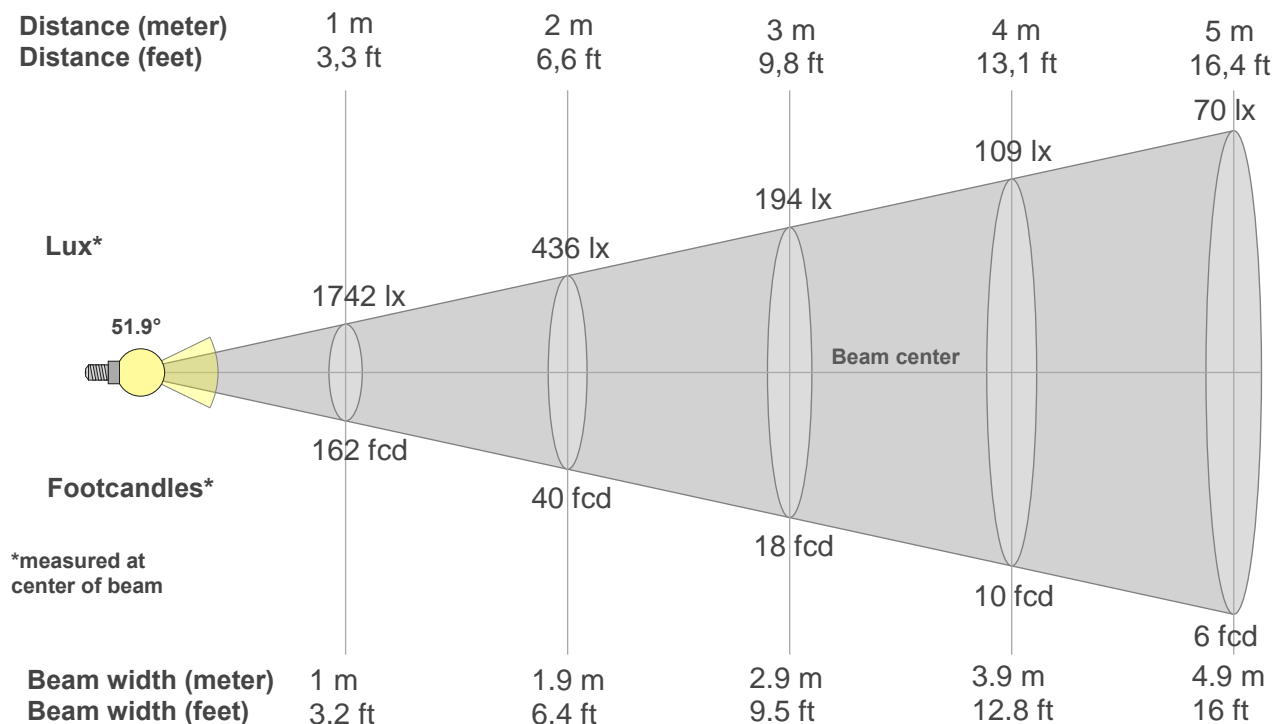
Fidelity index Rf

Rg 98.5

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 79 | -10% | -3% |
| 2 | 80 | -8% | 7% |
| 3 | 73 | -3% | 13% |
| 4 | 81 | 5% | 10% |
| 5 | 86 | 8% | 6% |
| 6 | 88 | 7% | -3% |
| 7 | 79 | 2% | -12% |
| 8 | 89 | -3% | -6% |
| 9 | 86 | -7% | -3% |
| 10 | 84 | -7% | 4% |
| 11 | 80 | -4% | 11% |
| 12 | 83 | 4% | 6% |
| 13 | 88 | 7% | -3% |
| 14 | 82 | 6% | -11% |
| 15 | 80 | 1% | -11% |
| 16 | 79 | -7% | -13% |





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 |
| 1742lx | 436lx | 194lx | 109lx | 70lx | 48lx | 36lx | 27lx | 22lx | 17lx | 14lx | 12lx | 10lx | 9lx | 8lx | 7lx | 6lx | 5lx | 5lx | 4lx |
| 161.9fcd | 40.5fcd | 18fcd | 10.1fcd | 6.5fcd | 4.5fcd | 3.3fcd | 2.5fcd | 2fcd | 1.6fcd | 1.3fcd | 1.1fcd | 1fcd | 0.8fcd | 0.7fcd | 0.6fcd | 0.6fcd | 0.5fcd | 0.4fcd | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1742 | 1742 | 1721 | 1696 | 1660 | 1606 | 1552 | 1474 | 1393 | 1301 | 1195 | 1088 | 978 | 869 | 765 | 667 | 569 | 477 | 386 | 309 |
| 100% | 100% | 99% | 97% | 95% | 92% | 89% | 85% | 80% | 75% | 69% | 62% | 56% | 50% | 44% | 38% | 33% | 27% | 22% | 18% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1742 | 1742 | 1721 | 1696 | 1660 | 1606 | 1552 | 1474 | 1393 | 1301 | 1195 | 1088 | 978 | 869 | 765 | 667 | 569 | 477 | 386 | 309 |
| 100% | 100% | 99% | 97% | 95% | 92% | 89% | 85% | 80% | 75% | 69% | 62% | 56% | 50% | 44% | 38% | 33% | 27% | 22% | 18% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1742 | 1742 | 1721 | 1696 | 1660 | 1606 | 1552 | 1474 | 1393 | 1301 | 1195 | 1088 | 978 | 869 | 765 | 667 | 569 | 477 | 386 | 309 |
| 100% | 100% | 99% | 97% | 95% | 92% | 89% | 85% | 80% | 75% | 69% | 62% | 56% | 50% | 44% | 38% | 33% | 27% | 22% | 18% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1742 | 1742 | 1721 | 1696 | 1660 | 1606 | 1552 | 1474 | 1393 | 1301 | 1195 | 1088 | 978 | 869 | 765 | 667 | 569 | 477 | 386 | 309 |
| 100% | 100% | 99% | 97% | 95% | 92% | 89% | 85% | 80% | 75% | 69% | 62% | 56% | 50% | 44% | 38% | 33% | 27% | 22% | 18% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 51.9° | 84° | 99.6° | 99.0% | 95.8% |