

Light efficiency:

98 Lumen/Watt

Light quality:

CRI: 82.7

Color temperature:

3033 K

Output: 2091 lm

Peak: 13213 cd

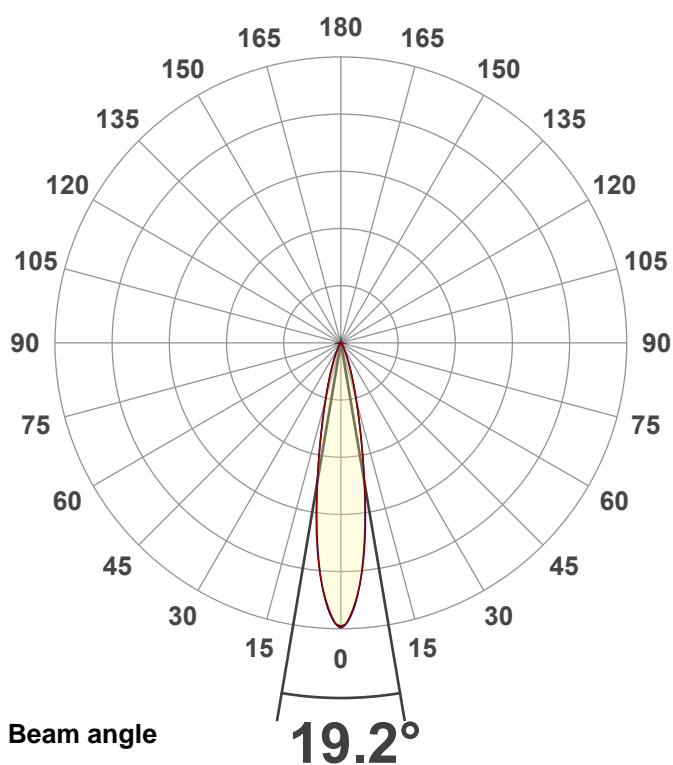
Power: 21.3 W

PF: 0.97



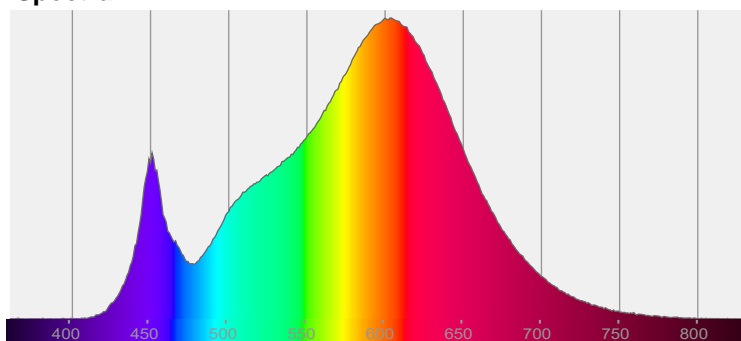
NU4-SD-SW-20LM-30K-80-20D-NA-NL-WH-WH

Date and time:
12/6/2024 1:33:44 PM

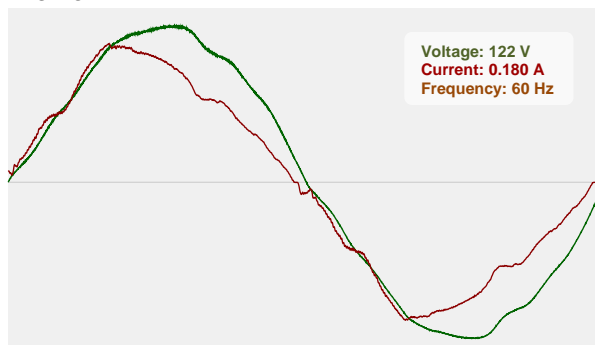


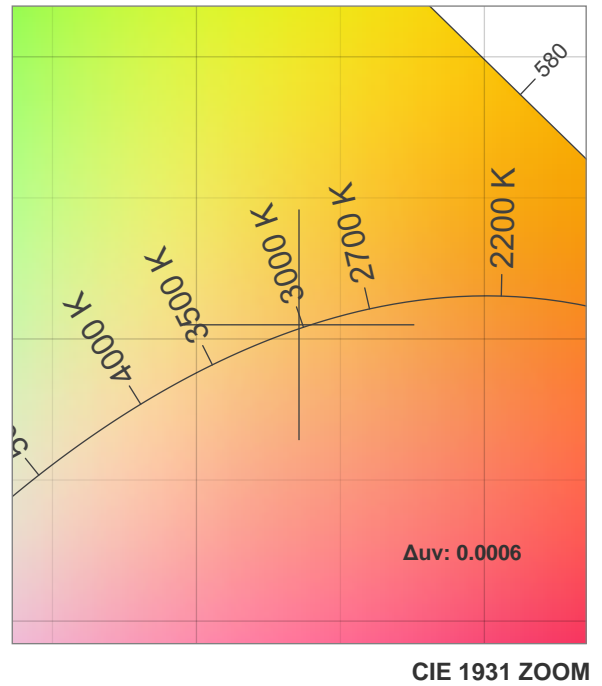
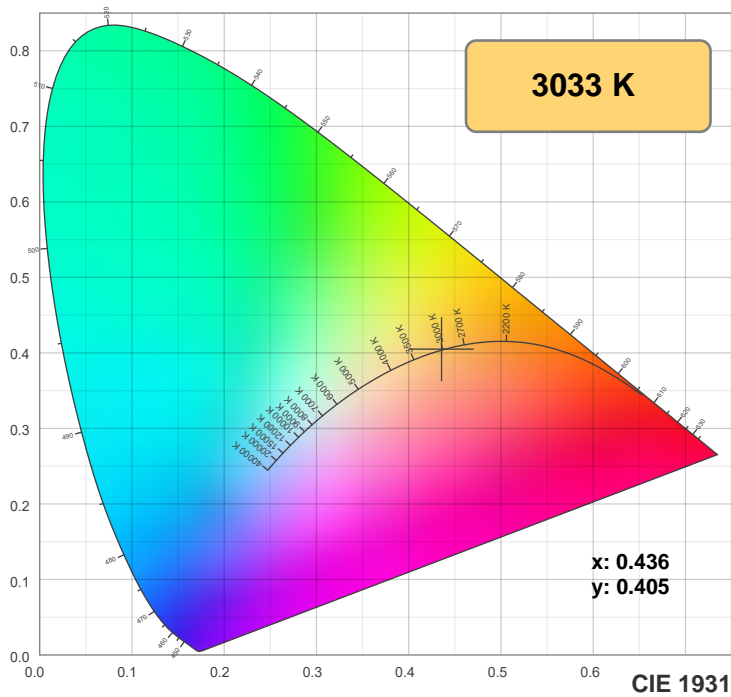
CIE 1931
x: 0.436
y: 0.405

Spectra

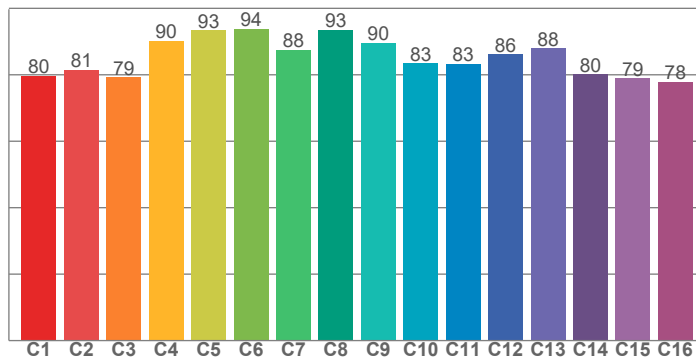


Power

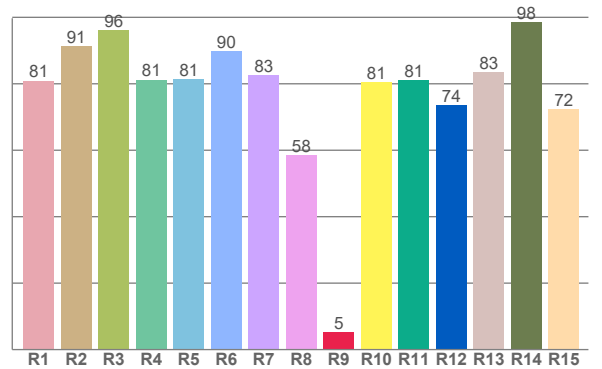




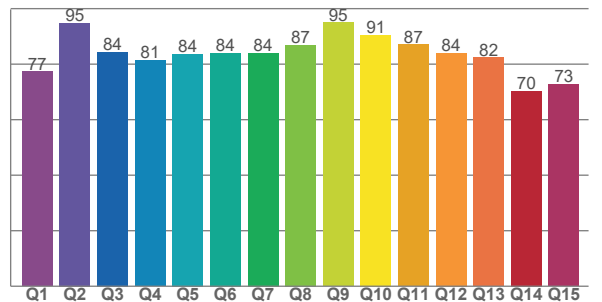
TM30: 85.5



CRI: 82.7 (R1-R8)



CQS: 82.4



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 |
|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 81.0 | 91.2 | 96.2 | 81.2 | 81.5 | 89.8 | 82.6 | 58.4 | 5.3 | 80.5 | 81.1 | 73.5 | 83.4 | 98.4 | 72.4 |

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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.7 | 81.5 | 79.3 | 90.2 | 93.4 | 93.8 | 87.6 | 93.5 | 89.6 | 83.4 | 83.3 | 86.1 | 87.9 | 80.1 | 79.0 | 77.9 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 77.3 | 94.9 | 84.3 | 81.4 | 83.7 | 84.1 | 84.0 | 86.9 | 95.0 | 90.5 | 87.0 | 84.0 | 82.3 | 70.4 | 72.7 |

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 |
| 3033 K | 82.7 | 5.3 | 85.5 | 95.5 | 82.4 | 0.436 | 0.405 | 0.249 | 0.348 | 0.0006 |

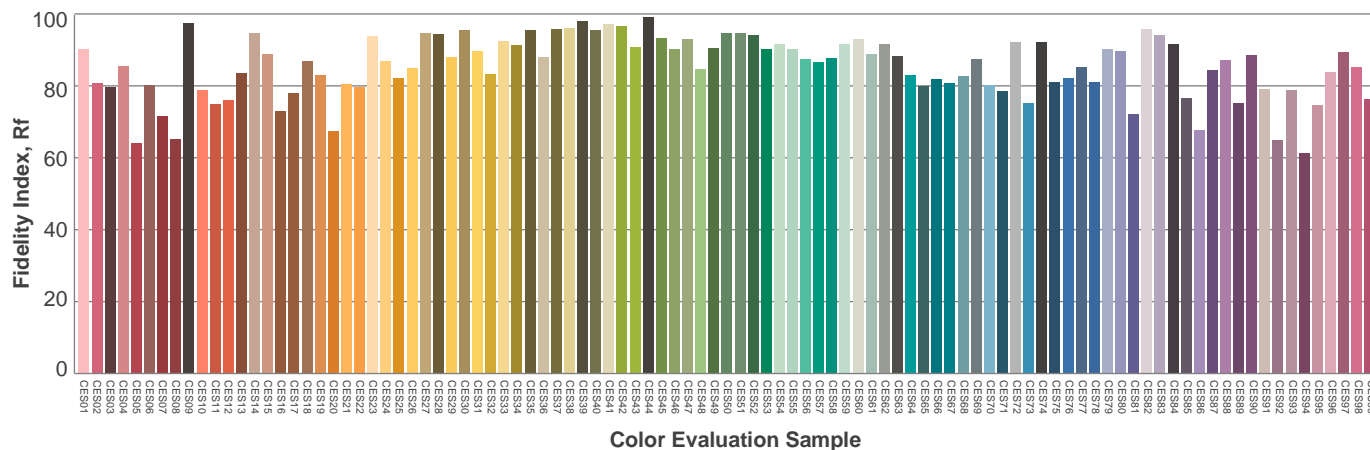
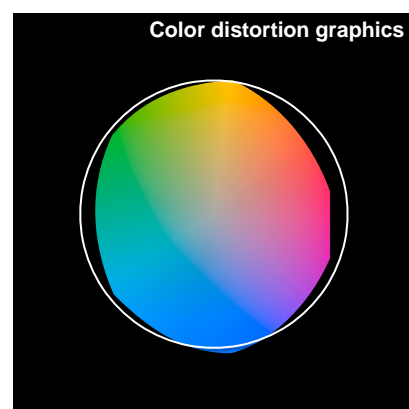
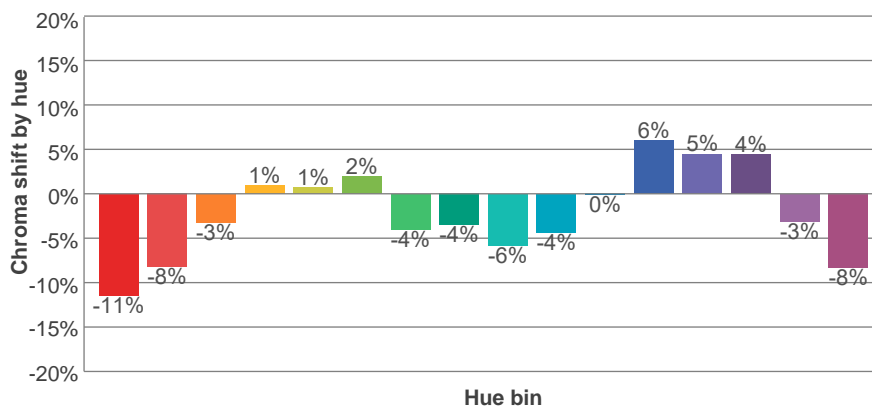
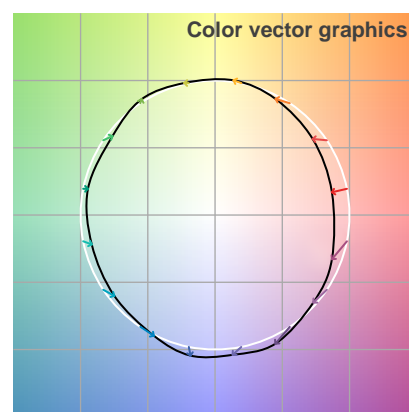
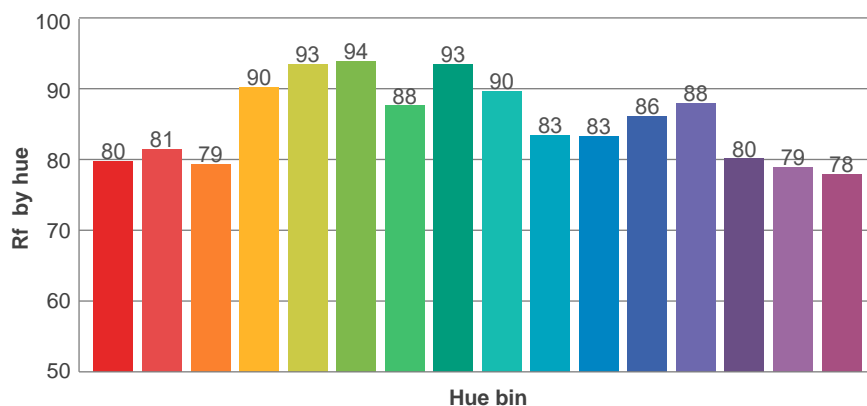
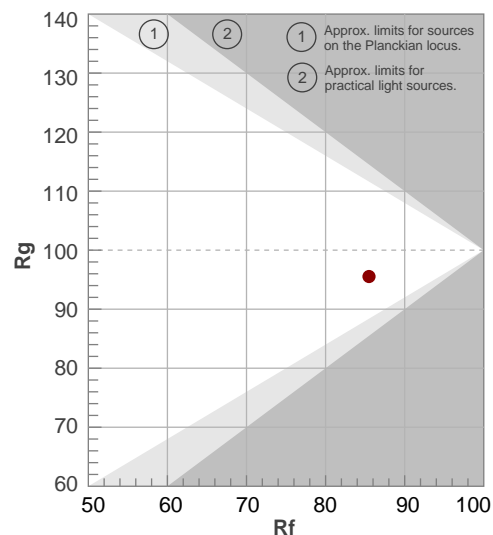
Rf 85.5

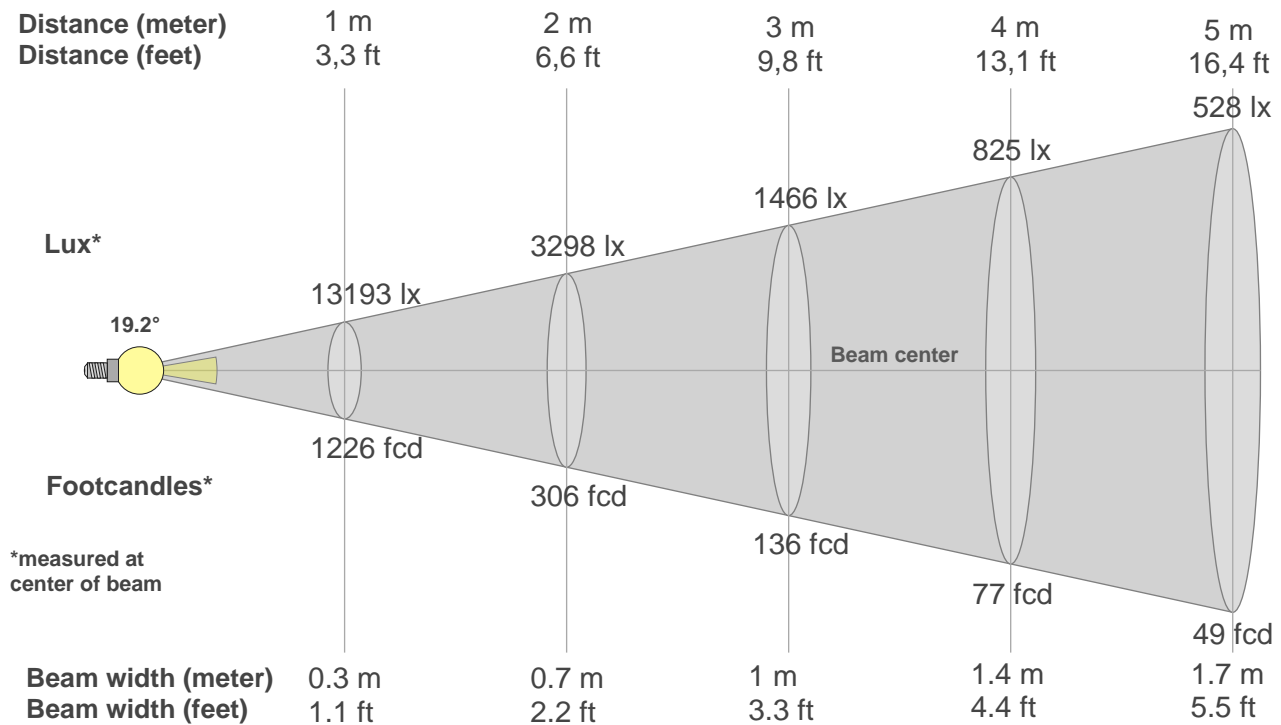
Fidelity index Rf

Rg 95.5

Gammut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 80 | -11% | 0% |
| 2 | 81 | -8% | 7% |
| 3 | 79 | -3% | 11% |
| 4 | 90 | 1% | 6% |
| 5 | 93 | 1% | 3% |
| 6 | 94 | 2% | -2% |
| 7 | 88 | -4% | -6% |
| 8 | 93 | -4% | -1% |
| 9 | 90 | -6% | 4% |
| 10 | 83 | -4% | 8% |
| 11 | 83 | 0% | 12% |
| 12 | 86 | 6% | 2% |
| 13 | 88 | 5% | -7% |
| 14 | 80 | 4% | -16% |
| 15 | 79 | -3% | -13% |
| 16 | 78 | -8% | -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 |
| 13193lx | 3298lx | 1466lx | 825lx | 528lx | 366lx | 269lx | 206lx | 163lx | 132lx | 109lx | 92lx | 78lx | 67lx | 59lx | 52lx | 46lx | 41lx | 37lx | 33lx |
| 1225.6fcd | 306.4fcd | 136.2fcd | 76.6fcd | 49fcd | 34fcd | 25fcd | 19.2fcd | 15.1fcd | 12.3fcd | 10.1fcd | 8.5fcd | 7.3fcd | 6.3fcd | 5.4fcd | 4.8fcd | 4.2fcd | 3.8fcd | 3.4fcd | 3.1fcd |

Intensities in 0° c-plane

| 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° | 11° | 12° | 13° | 14° | 15° | 16° | 17° | 18° | 19° |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 13.2K | 13.1K | 12.7K | 12.2K | 11.6K | 10.9K | 10.1K | 9.2K | 8.2K | 7.2K | 6.2K | 5.3K | 4.5K | 3.8K | 3.2K | 2.8K | 2.3K | 2.0K | 1.7K | 1.4K |
| 100% | 99% | 96% | 92% | 88% | 83% | 76% | 70% | 62% | 55% | 47% | 40% | 34% | 29% | 25% | 21% | 18% | 15% | 13% | 11% |

Intensities in 90° c-plane

| 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° | 11° | 12° | 13° | 14° | 15° | 16° | 17° | 18° | 19° |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 13.2K | 13.1K | 12.7K | 12.2K | 11.6K | 10.8K | 10.0K | 9.0K | 8.1K | 7.1K | 6.2K | 5.3K | 4.5K | 3.9K | 3.3K | 2.8K | 2.4K | 2.0K | 1.7K | 1.5K |
| 100% | 99% | 96% | 93% | 88% | 82% | 76% | 69% | 61% | 54% | 47% | 40% | 34% | 29% | 25% | 21% | 18% | 15% | 13% | 11% |

Intensities in 180° c-plane

| 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° | 11° | 12° | 13° | 14° | 15° | 16° | 17° | 18° | 19° |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 13.2K | 13.1K | 12.7K | 12.2K | 11.6K | 10.9K | 10.1K | 9.2K | 8.2K | 7.2K | 6.2K | 5.3K | 4.5K | 3.8K | 3.2K | 2.8K | 2.3K | 2.0K | 1.7K | 1.4K |
| 100% | 99% | 96% | 92% | 88% | 83% | 76% | 70% | 62% | 55% | 47% | 40% | 34% | 29% | 25% | 21% | 18% | 15% | 13% | 11% |

Intensities in 270° c-plane

| 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° | 11° | 12° | 13° | 14° | 15° | 16° | 17° | 18° | 19° |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 13.2K | 13.1K | 12.7K | 12.2K | 11.6K | 10.8K | 10.0K | 9.0K | 8.1K | 7.1K | 6.2K | 5.3K | 4.5K | 3.9K | 3.3K | 2.8K | 2.4K | 2.0K | 1.7K | 1.5K |
| 100% | 99% | 96% | 93% | 88% | 82% | 76% | 69% | 61% | 54% | 47% | 40% | 34% | 29% | 25% | 21% | 18% | 15% | 13% | 11% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 19.2° | 39.3° | 55.9° | 99.6% | 98.7% |