

Light efficiency:

76 Lumen/Watt

Light quality:

CRI: 82.6

Color temperature:

3071 K

Output: 988 lm

Peak: 2659 cd

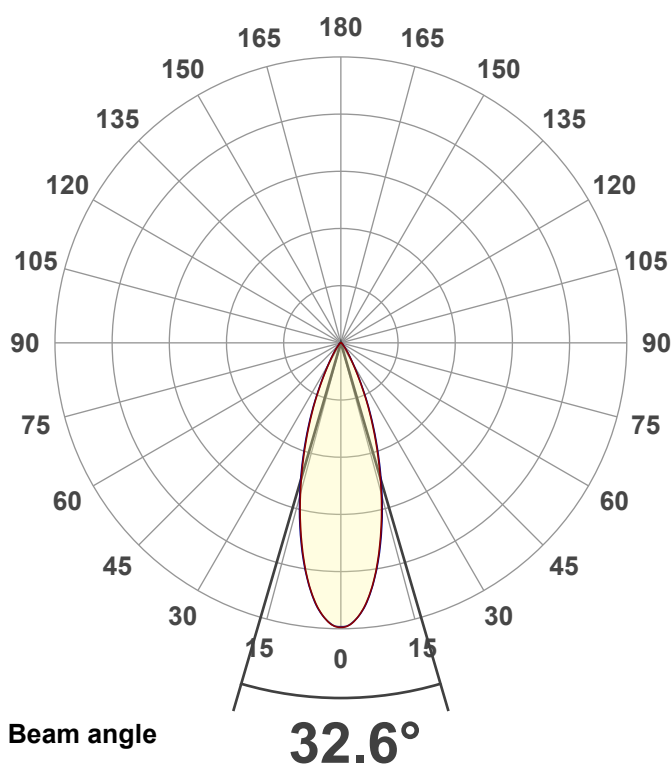
Power: 13.0 W

PF: 0.95



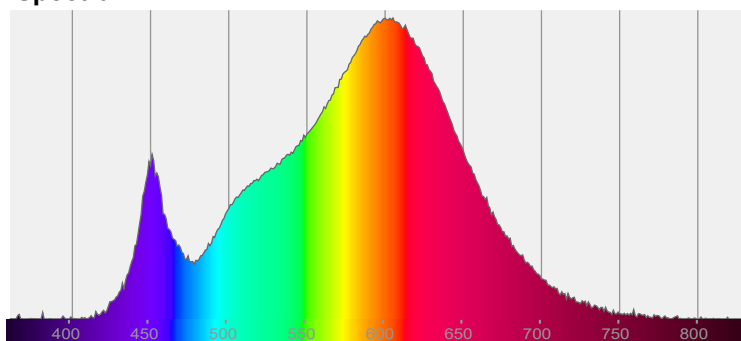
NU1-RA-SW-13LM-30K-80-30D-HETA-NL-WH-WH

Date and time:
8/20/2024 10:11:25 AM

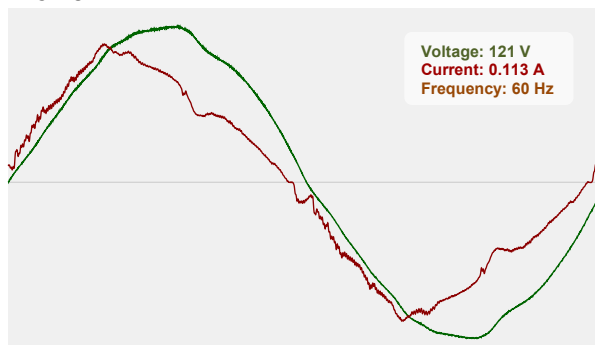


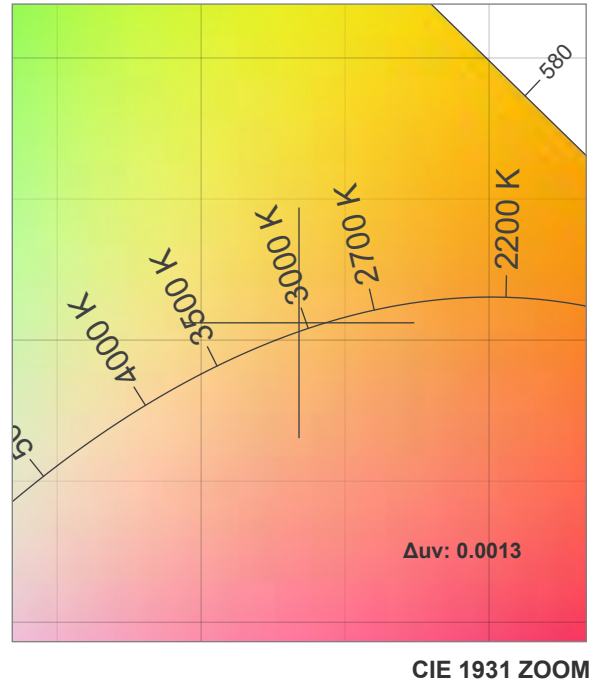
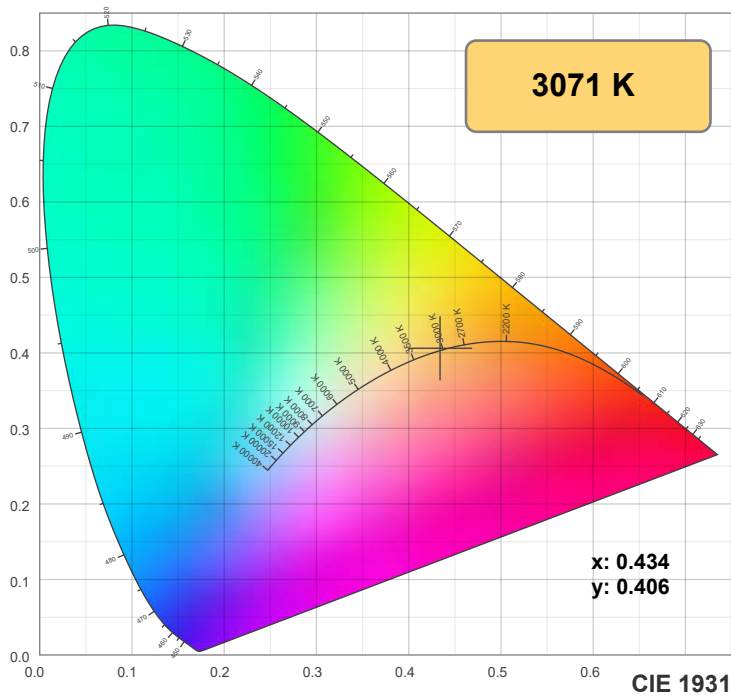
CIE 1931
x: 0.434
y: 0.406

Spectra

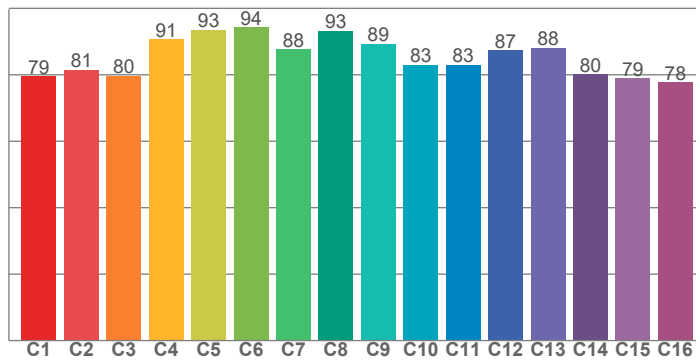


Power

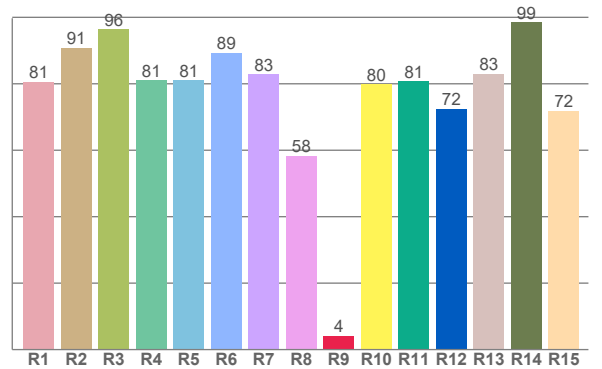




TM30: 85.5



CRI: 82.6 (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 |
|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 80.6 | 90.9 | 96.4 | 81.0 | 81.1 | 89.4 | 82.8 | 58.3 | 4.2 | 79.8 | 80.8 | 72.5 | 83.1 | 98.5 | 71.9 |

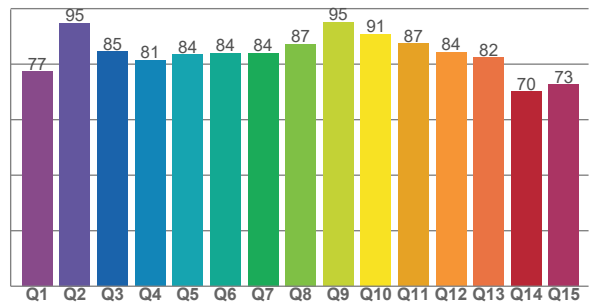
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.5 | 81.5 | 79.6 | 90.7 | 93.5 | 94.3 | 87.7 | 93.3 | 89.3 | 83.0 | 83.1 | 87.3 | 88.1 | 80.1 | 78.9 | 77.7 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 77.3 | 94.9 | 84.6 | 81.4 | 83.5 | 83.9 | 84.0 | 87.3 | 95.1 | 90.8 | 87.4 | 84.3 | 82.4 | 70.1 | 72.6 |

CQS: 82.5



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 |
| 3071 K | 82.6 | 4.2 | 85.5 | 95.2 | 82.5 | 0.434 | 0.406 | 0.248 | 0.348 | 0.0013 |

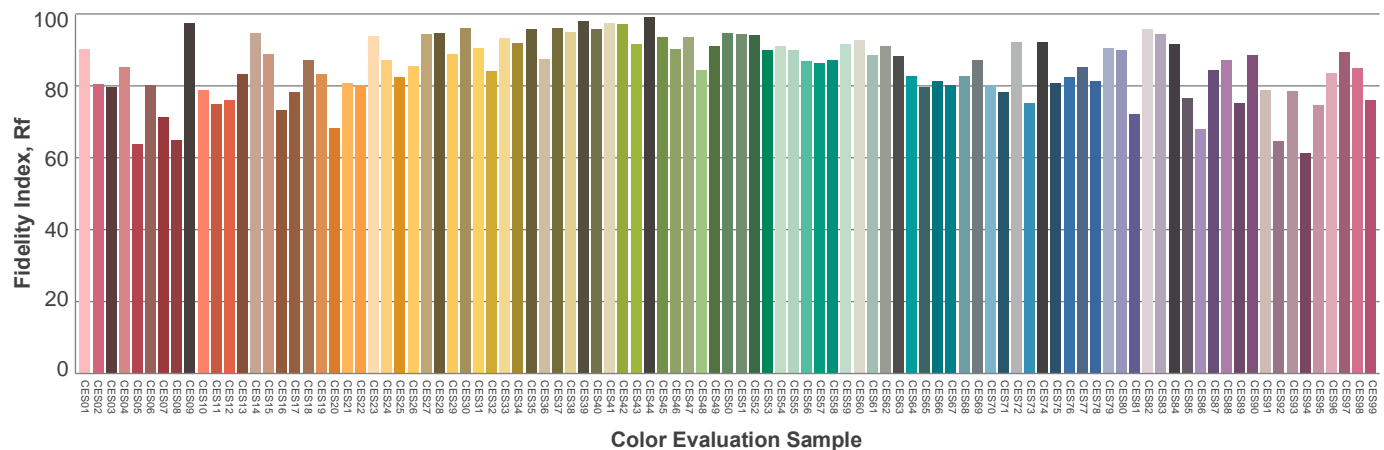
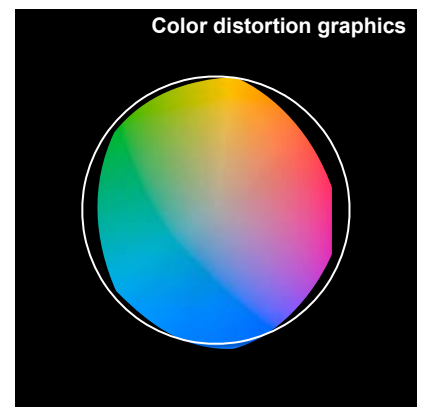
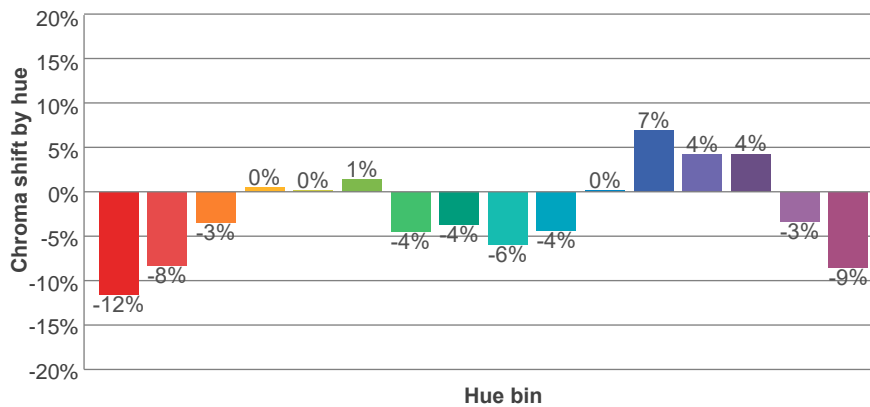
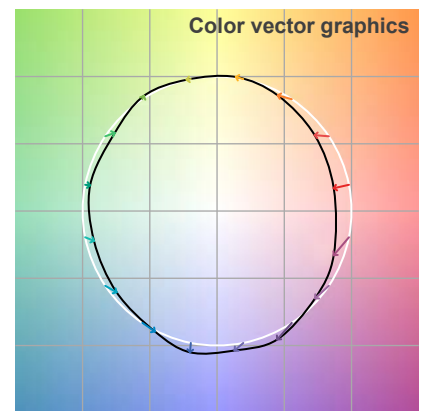
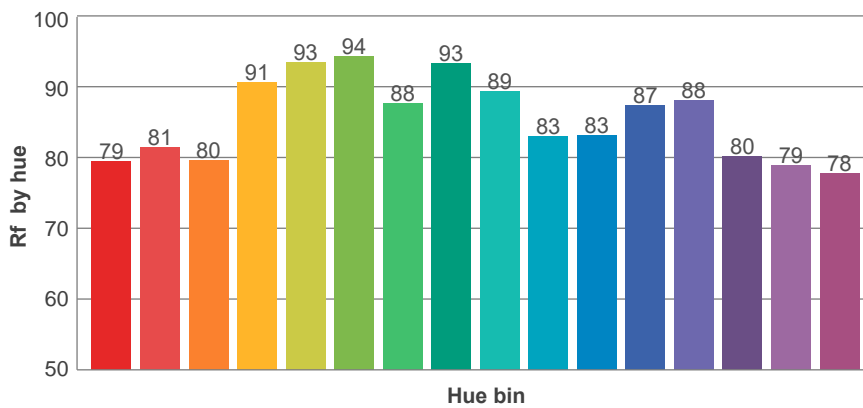
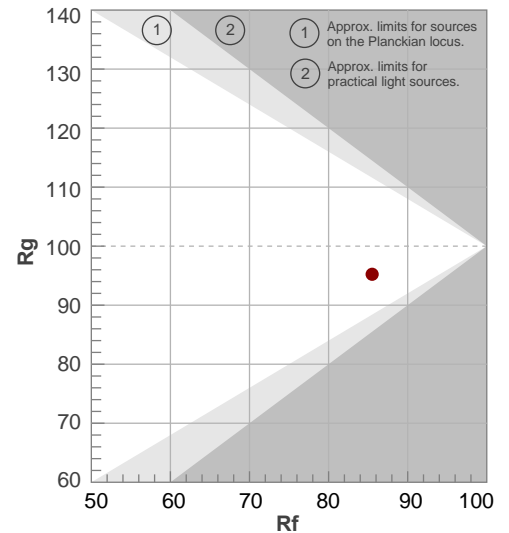
Rf 85.5

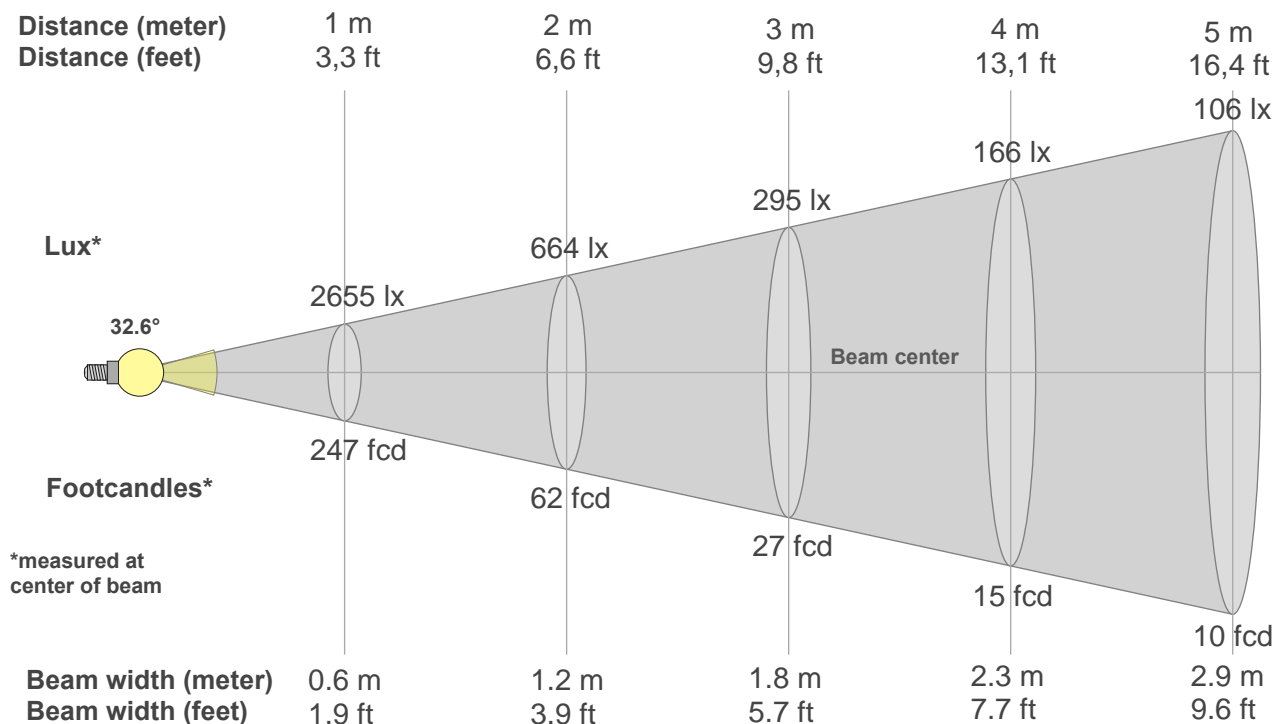
Fidelity index Rf

Rg 95.2

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 79 | -12% | 0% |
| 2 | 81 | -8% | 7% |
| 3 | 80 | -3% | 10% |
| 4 | 91 | 0% | 6% |
| 5 | 93 | 0% | 3% |
| 6 | 94 | 1% | -2% |
| 7 | 88 | -4% | -6% |
| 8 | 93 | -4% | 0% |
| 9 | 89 | -6% | 4% |
| 10 | 83 | -4% | 9% |
| 11 | 83 | 0% | 11% |
| 12 | 87 | 7% | 1% |
| 13 | 88 | 4% | -7% |
| 14 | 80 | 4% | -16% |
| 15 | 79 | -3% | -13% |
| 16 | 78 | -9% | -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 |
| 2655lx | 664lx | 295lx | 166lx | 106lx | 74lx | 54lx | 41lx | 33lx | 27lx | 22lx | 18lx | 16lx | 14lx | 12lx | 10lx | 9lx | 8lx | 7lx | 7lx |
| 246.7fcd | 61.7fcd | 27.4fcd | 15.4fcd | 9.9fcd | 6.9fcd | 5fcd | 3.9fcd | 3fcd | 2.5fcd | 2fcd | 1.7fcd | 1.5fcd | 1.3fcd | 1.1fcd | 1fcd | 0.9fcd | 0.8fcd | 0.7fcd | 0.6fcd |

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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2655 | 2628 | 2539 | 2404 | 2230 | 2021 | 1798 | 1573 | 1347 | 1130 | 928 | 742 | 577 | 428 | 312 | 227 | 167 | 124 | 94 | 72 |
| 100% | 99% | 96% | 91% | 84% | 76% | 68% | 59% | 51% | 43% | 35% | 28% | 22% | 16% | 12% | 9% | 6% | 5% | 4% | 3% |

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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2655 | 2622 | 2543 | 2410 | 2235 | 2036 | 1818 | 1597 | 1373 | 1155 | 952 | 766 | 595 | 444 | 326 | 237 | 176 | 132 | 100 | 78 |
| 100% | 99% | 96% | 91% | 84% | 77% | 68% | 60% | 52% | 44% | 36% | 29% | 22% | 17% | 12% | 9% | 7% | 5% | 4% | 3% |

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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2655 | 2628 | 2539 | 2404 | 2230 | 2021 | 1798 | 1573 | 1347 | 1130 | 928 | 742 | 577 | 428 | 312 | 227 | 167 | 124 | 94 | 72 |
| 100% | 99% | 96% | 91% | 84% | 76% | 68% | 59% | 51% | 43% | 35% | 28% | 22% | 16% | 12% | 9% | 6% | 5% | 4% | 3% |

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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2655 | 2622 | 2543 | 2410 | 2235 | 2036 | 1818 | 1597 | 1373 | 1155 | 952 | 766 | 595 | 444 | 326 | 237 | 176 | 132 | 100 | 78 |
| 100% | 99% | 96% | 91% | 84% | 77% | 68% | 60% | 52% | 44% | 36% | 29% | 22% | 17% | 12% | 9% | 7% | 5% | 4% | 3% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 32.6° | 58.3° | 78° | 98.5% | 96.2% |