

Light efficiency:

45 Lumen/Watt

Light quality:

CRI: 94.9

Color temperature:

3085 K

Output: 859 lm

Peak: 6268 cd

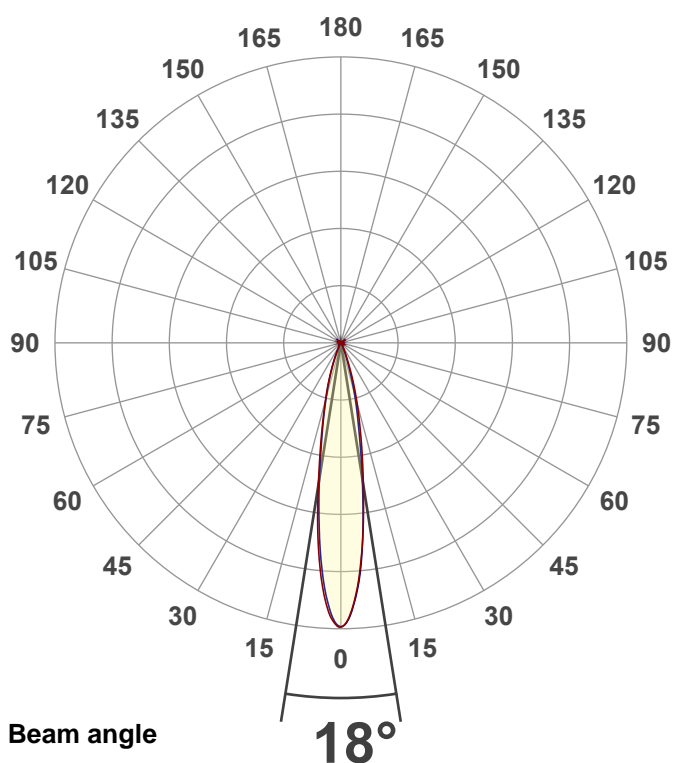
Power: 19.0 W

PF: 0.97



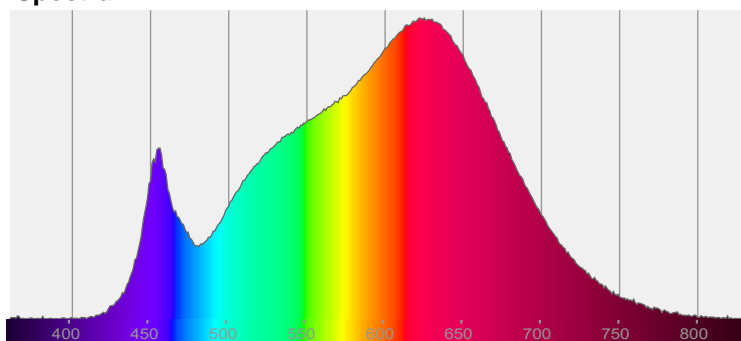
NU3-RA-WD-15LM-3018-97-15D-NA-CL-WH-WH

Date and time:
7/14/2022 9:49:04 AM

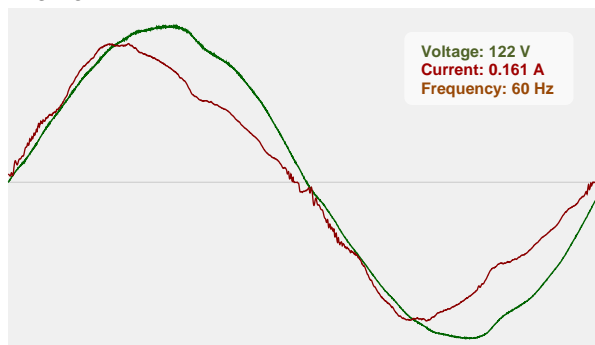


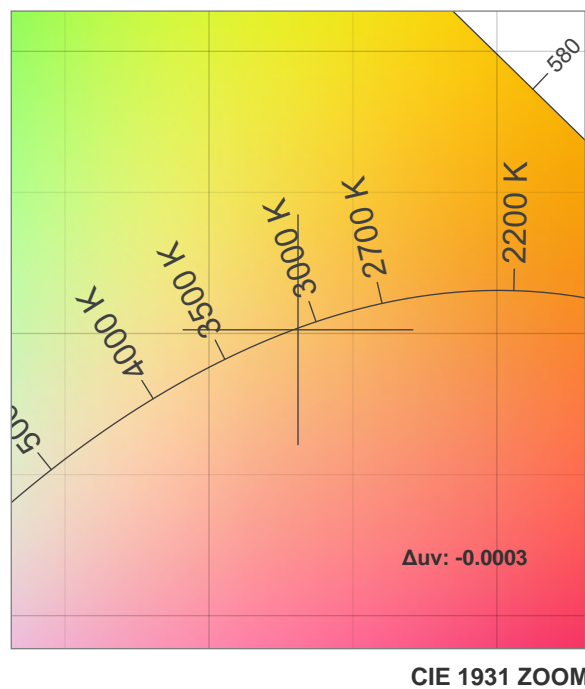
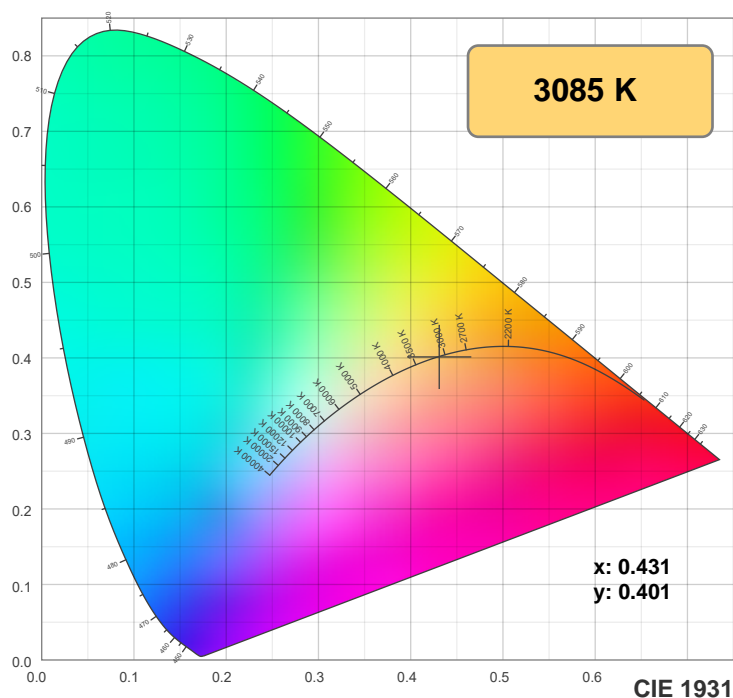
CIE 1931
x: 0.431
y: 0.401

Spectra

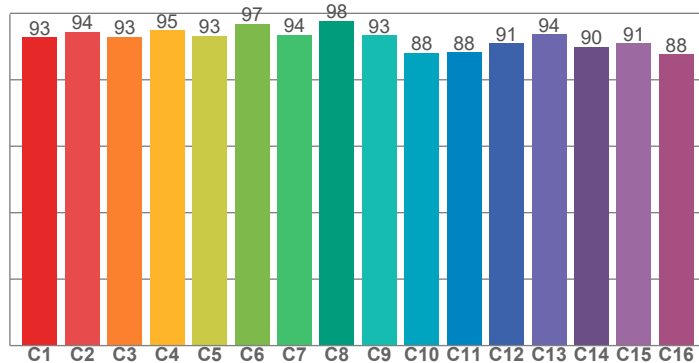


Power

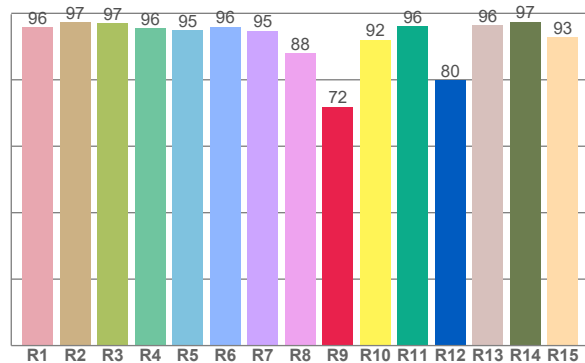




TM30: 92.5



CRI: 94.9 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95.8 | 97.4 | 96.9 | 95.5 | 94.9 | 95.9 | 94.7 | 87.9 | 71.9 | 92.1 | 96.0 | 79.9 | 96.4 | 97.4 | 92.8 |

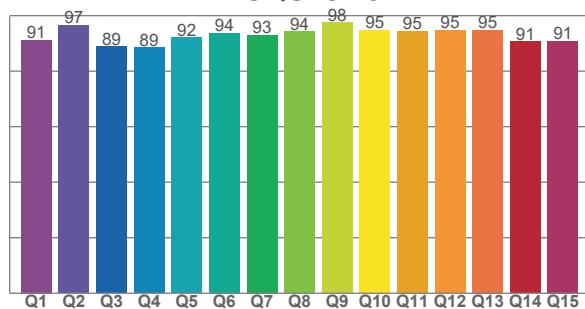
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 92.8 | 94.4 | 92.9 | 94.9 | 93.3 | 96.8 | 93.6 | 97.8 | 93.4 | 88.1 | 88.2 | 90.9 | 93.6 | 89.9 | 90.9 | 87.6 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91.2 | 96.5 | 88.9 | 88.5 | 92.0 | 93.8 | 93.0 | 94.2 | 97.5 | 94.7 | 94.5 | 94.7 | 94.8 | 90.7 | 90.9 |

CQS: 92.5



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 |
| 3085 K | 94.9 | 71.9 | 92.5 | 99.6 | 92.5 | 0.431 | 0.401 | 0.248 | 0.346 | -0.0003 |

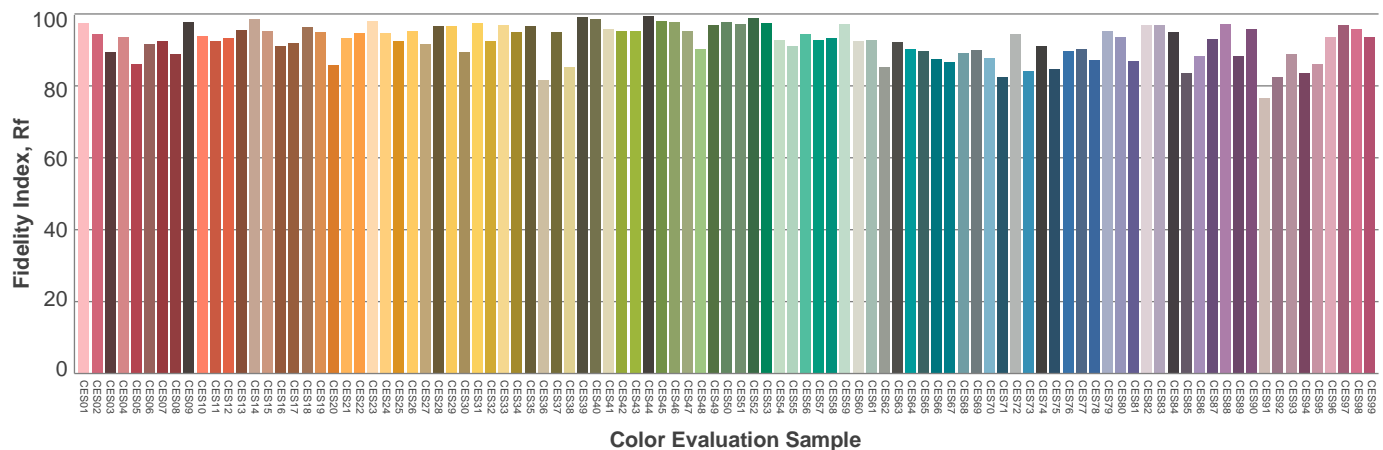
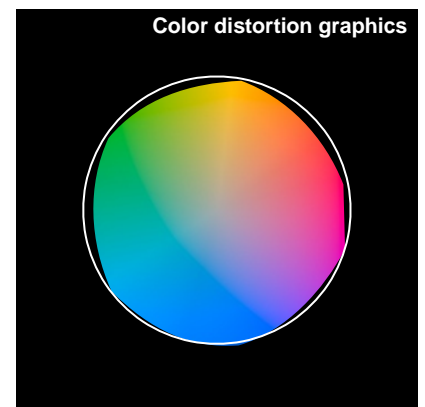
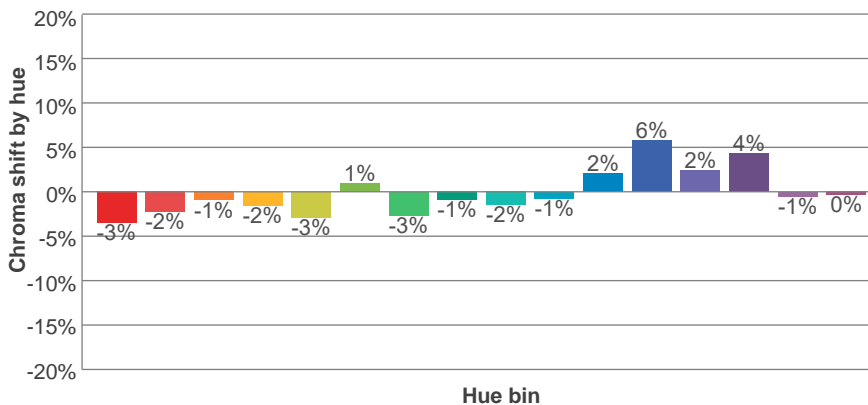
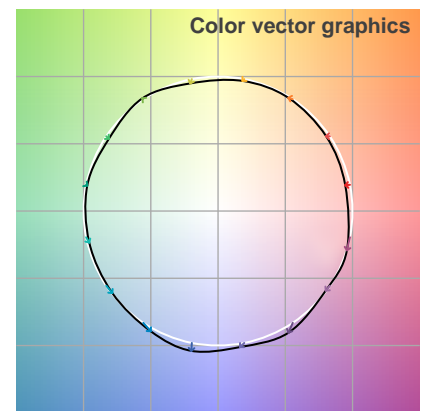
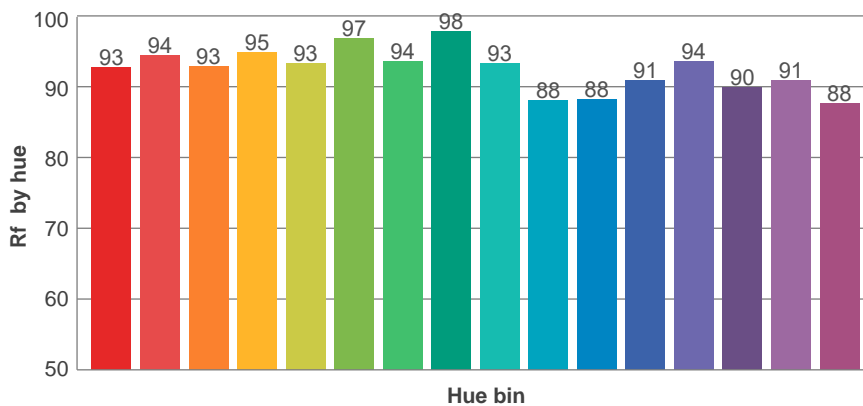
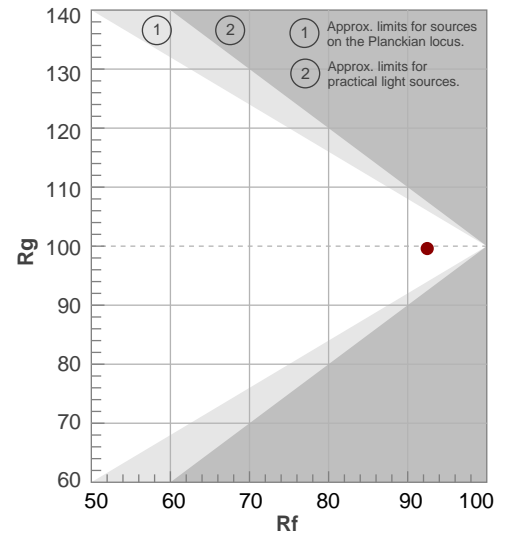
Rf 92.5

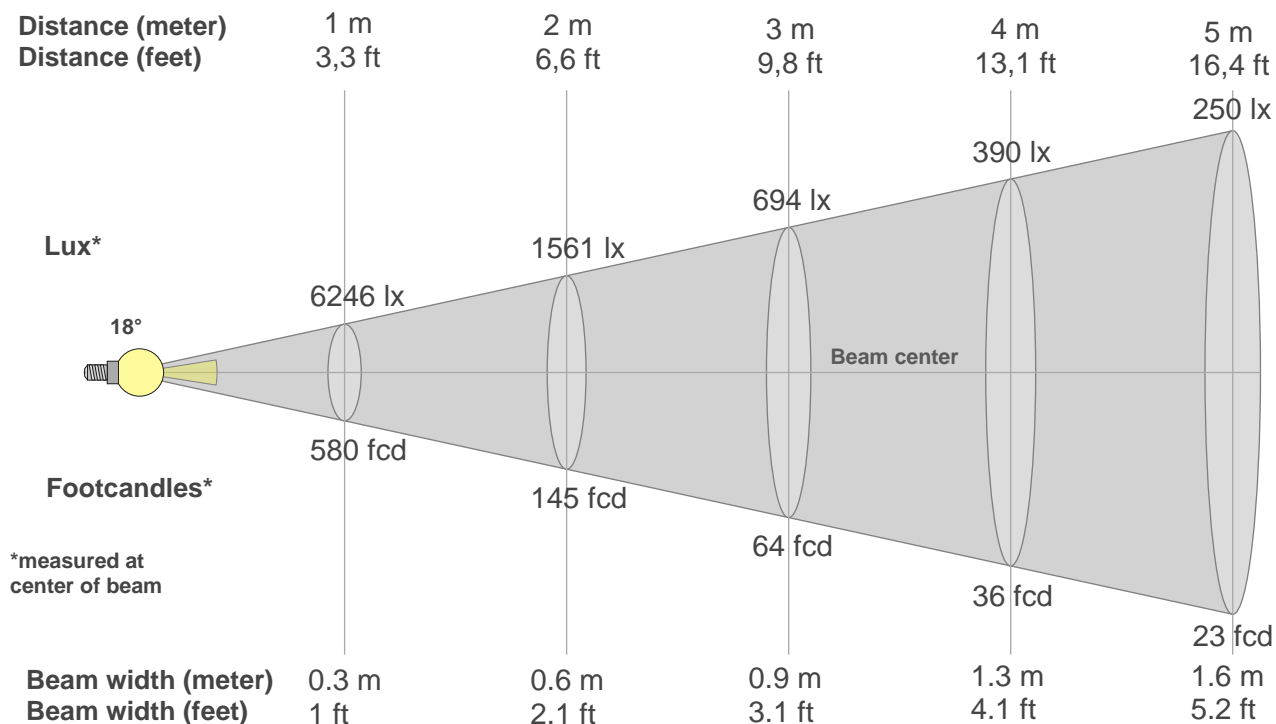
Fidelity index Rf

Rg 99.6

Gammut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 93 | -3% | 0% |
| 2 | 94 | -2% | 2% |
| 3 | 93 | -1% | 3% |
| 4 | 95 | -2% | 1% |
| 5 | 93 | -3% | 2% |
| 6 | 97 | 1% | 0% |
| 7 | 94 | -3% | 0% |
| 8 | 98 | -1% | 0% |
| 9 | 93 | -2% | 4% |
| 10 | 88 | -1% | 7% |
| 11 | 88 | 2% | 8% |
| 12 | 91 | 6% | 1% |
| 13 | 94 | 2% | -4% |
| 14 | 90 | 4% | -7% |
| 15 | 91 | -1% | -5% |
| 16 | 88 | 0% | -10% |





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 |
| 6246lx | 1561lx | 694lx | 390lx | 250lx | 173lx | 127lx | 98lx | 77lx | 62lx | 52lx | 43lx | 37lx | 32lx | 28lx | 24lx | 22lx | 19lx | 17lx | 16lx |
| 580.2fcd | 145.1fcd | 64.5fcd | 36.3fcd | 23.2fcd | 16.1fcd | 11.8fcd | 9.1fcd | 7.2fcd | 5.8fcd | 4.8fcd | 4fcd | 3.4fcd | 3fcd | 2.6fcd | 2.3fcd | 2fcd | 1.8fcd | 1.6fcd | 1.5fcd |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 6246 | 6162 | 5965 | 5680 | 5338 | 4932 | 4502 | 4048 | 3591 | 3167 | 2783 | 2442 | 2128 | 1849 | 1609 | 1386 | 1179 | 997 | 824 | 664 |
| 100% | 99% | 96% | 91% | 85% | 79% | 72% | 65% | 57% | 51% | 45% | 39% | 34% | 30% | 26% | 22% | 19% | 16% | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|
| 6246 | 6183 | 5996 | 5713 | 5384 | 4988 | 4511 | 4001 | 3491 | 3019 | 2587 | 2196 | 1870 | 1606 | 1373 | 1155 | 950 | 764 | 608 | 485 |
| 100% | 99% | 96% | 91% | 86% | 80% | 72% | 64% | 56% | 48% | 41% | 35% | 30% | 26% | 22% | 18% | 15% | 12% | 10% | 8% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 6246 | 6200 | 6055 | 5814 | 5488 | 5096 | 4650 | 4172 | 3667 | 3174 | 2730 | 2355 | 2038 | 1757 | 1514 | 1311 | 1136 | 972 | 813 | 668 |
| 100% | 99% | 97% | 93% | 88% | 82% | 74% | 67% | 59% | 51% | 44% | 38% | 33% | 28% | 24% | 21% | 18% | 16% | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 6246 | 6177 | 5980 | 5681 | 5323 | 4894 | 4433 | 3944 | 3473 | 3018 | 2598 | 2240 | 1939 | 1682 | 1452 | 1247 | 1065 | 902 | 762 | 641 |
| 100% | 99% | 96% | 91% | 85% | 78% | 71% | 63% | 56% | 48% | 42% | 36% | 31% | 27% | 23% | 20% | 17% | 14% | 12% | 10% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 18° | 37.9° | 49.3° | 99.7% | 99.4% |