

Light efficiency:

51 Lumen/Watt

Light quality:

CRI: 94.8

Color temperature:

3087 K

Output: 960 lm

Peak: 2703 cd

Power: 18.9 W

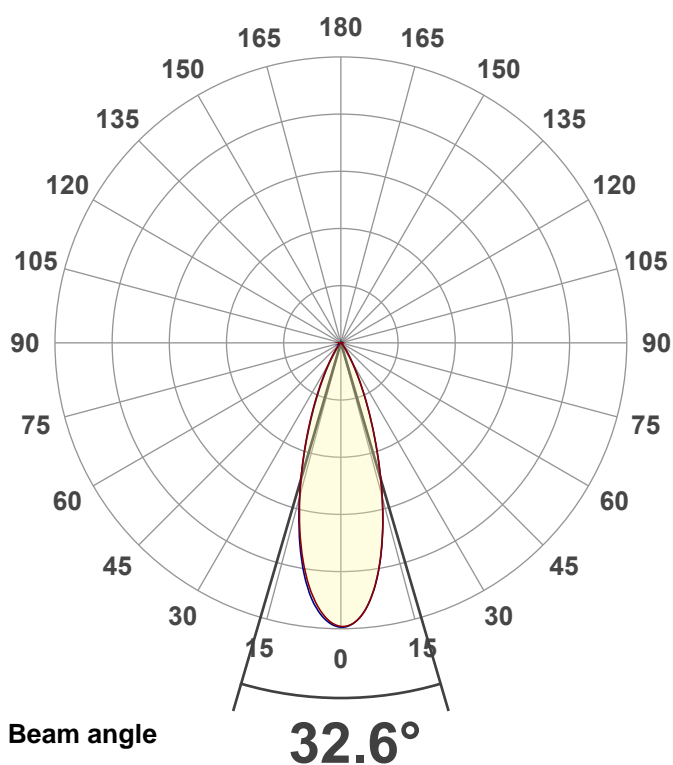
PF: 0.97



NU3-RA-WD-15LM-3018-97-35D-NA-HET-WH-WH

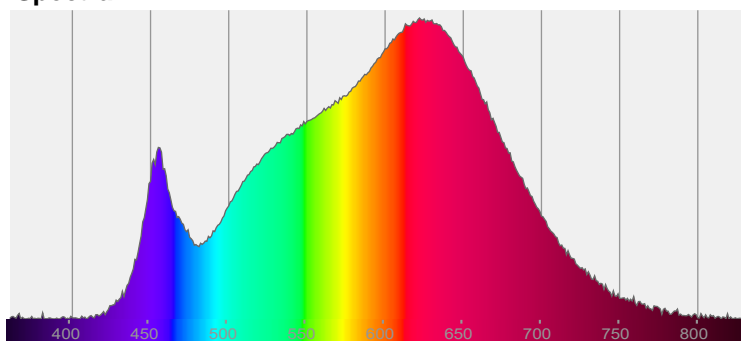
Date and time:

7/15/2022 9:48:18 AM

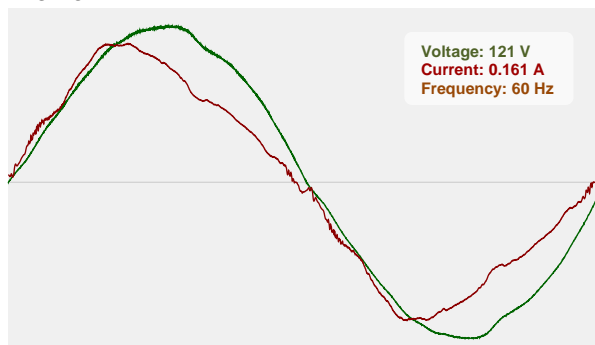


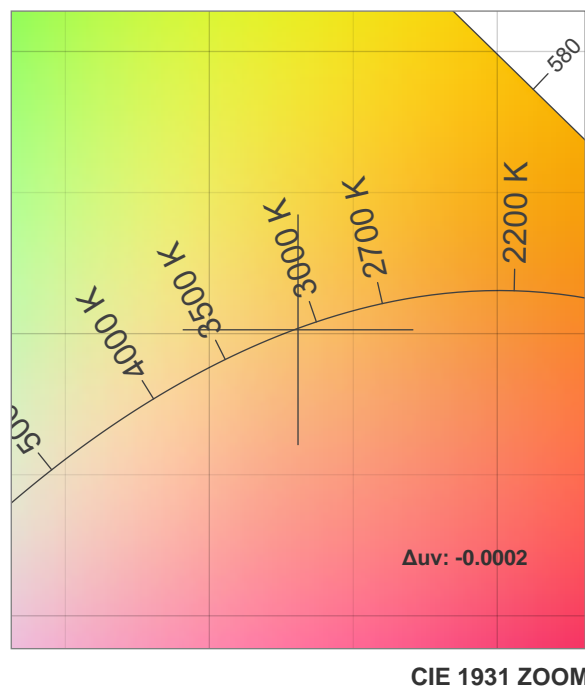
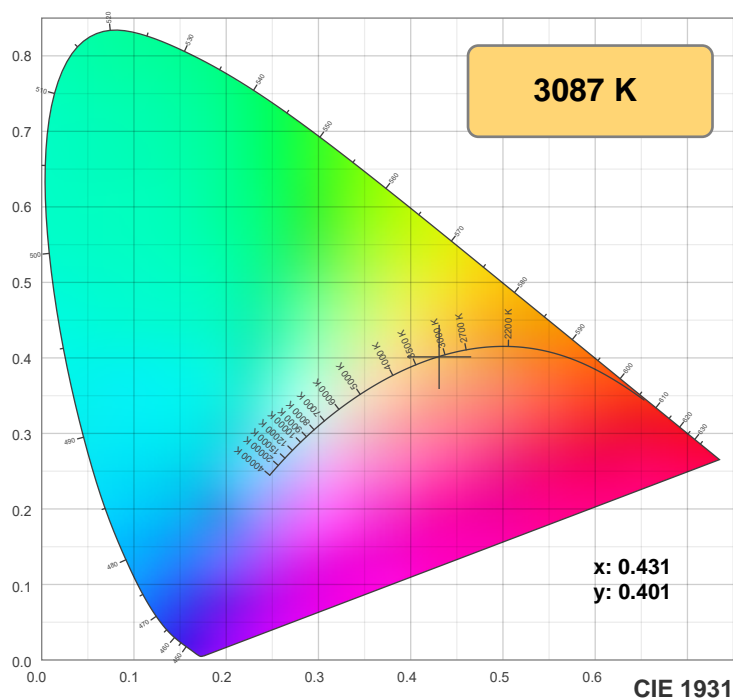
CIE 1931
x: 0.431
y: 0.401

Spectra

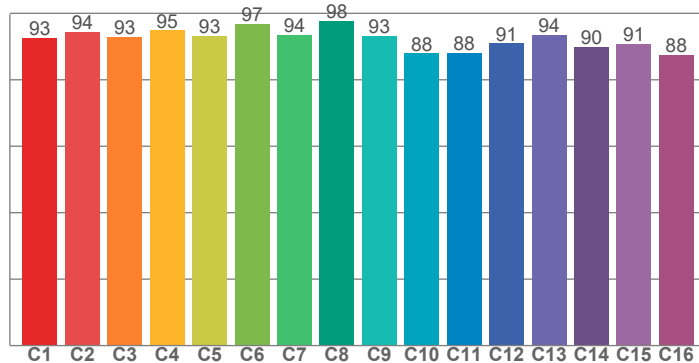


Power

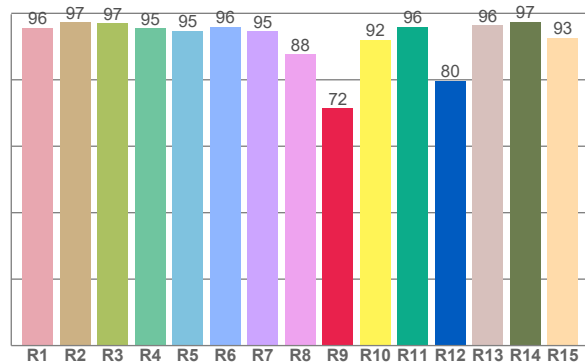




TM30: 92.4



CRI: 94.8 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95.7 | 97.3 | 97.0 | 95.4 | 94.8 | 95.9 | 94.6 | 87.8 | 71.5 | 92.0 | 95.9 | 79.7 | 96.3 | 97.5 | 92.7 |

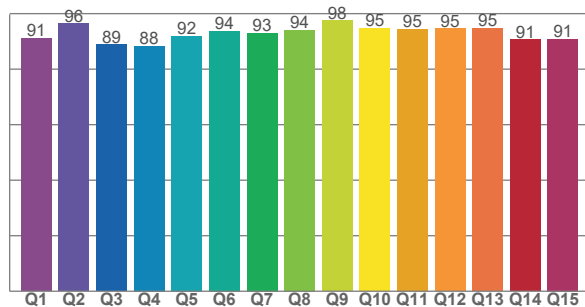
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 92.7 | 94.3 | 92.9 | 94.8 | 93.3 | 96.8 | 93.5 | 97.7 | 93.2 | 87.9 | 88.1 | 90.9 | 93.6 | 89.9 | 90.8 | 87.5 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91.1 | 96.5 | 88.9 | 88.4 | 91.9 | 93.7 | 93.0 | 94.2 | 97.5 | 94.7 | 94.5 | 94.7 | 94.7 | 90.6 | 90.8 |

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 |
| 3087 K | 94.8 | 71.5 | 92.4 | 99.5 | 92.5 | 0.431 | 0.401 | 0.248 | 0.346 | -0.0002 |

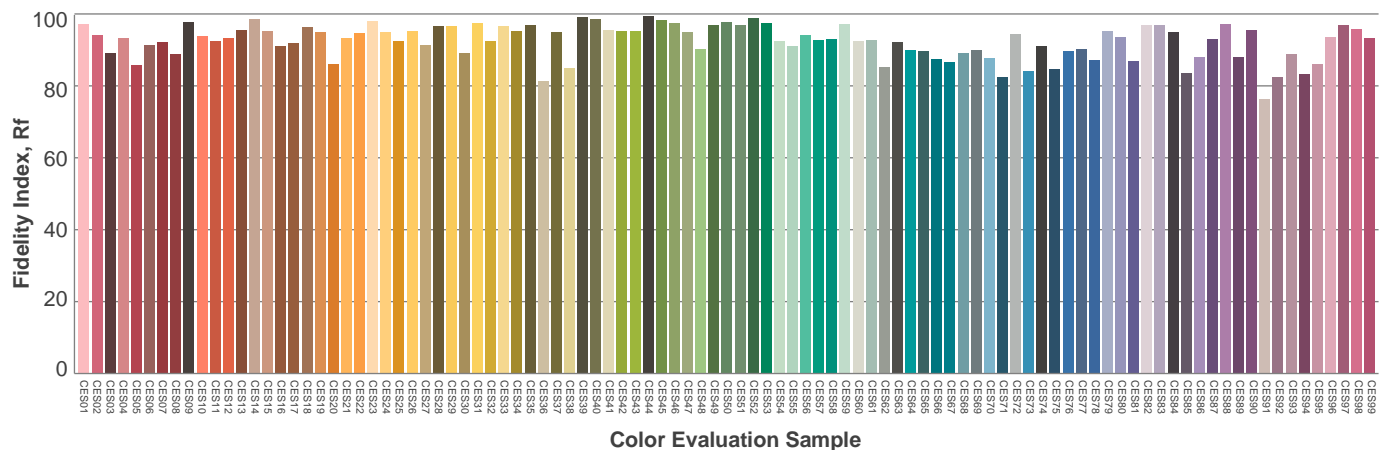
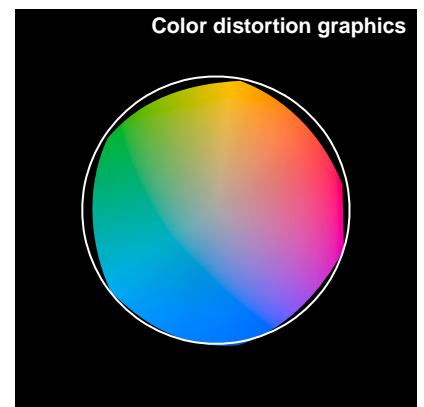
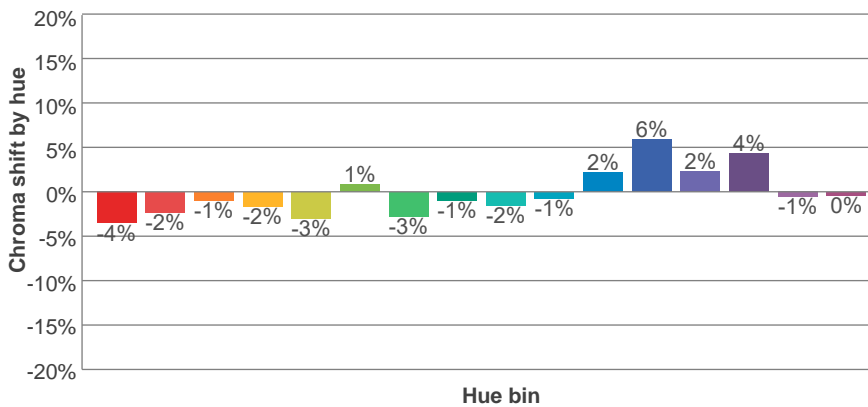
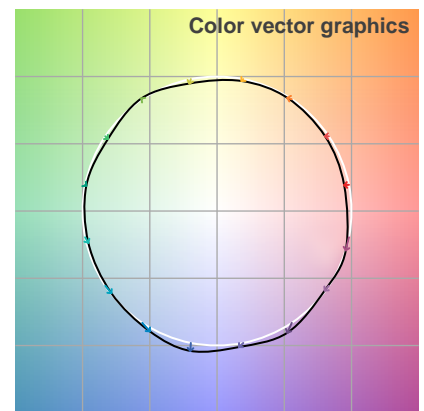
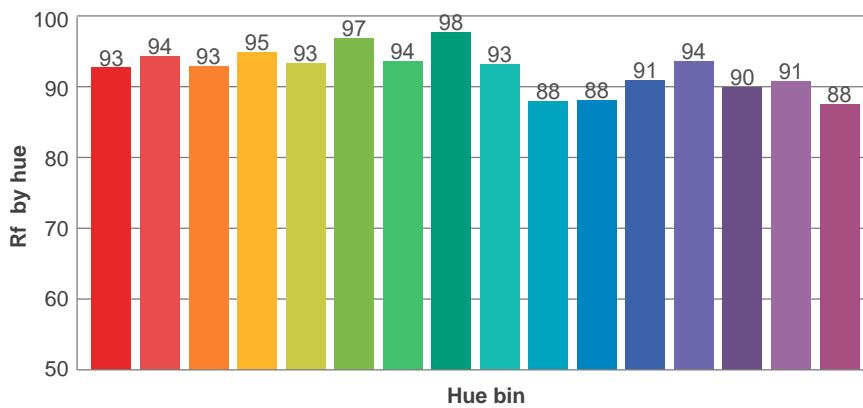
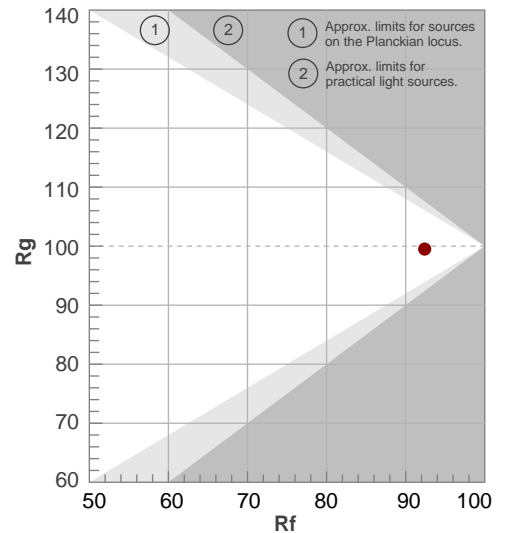
Rf 92.4

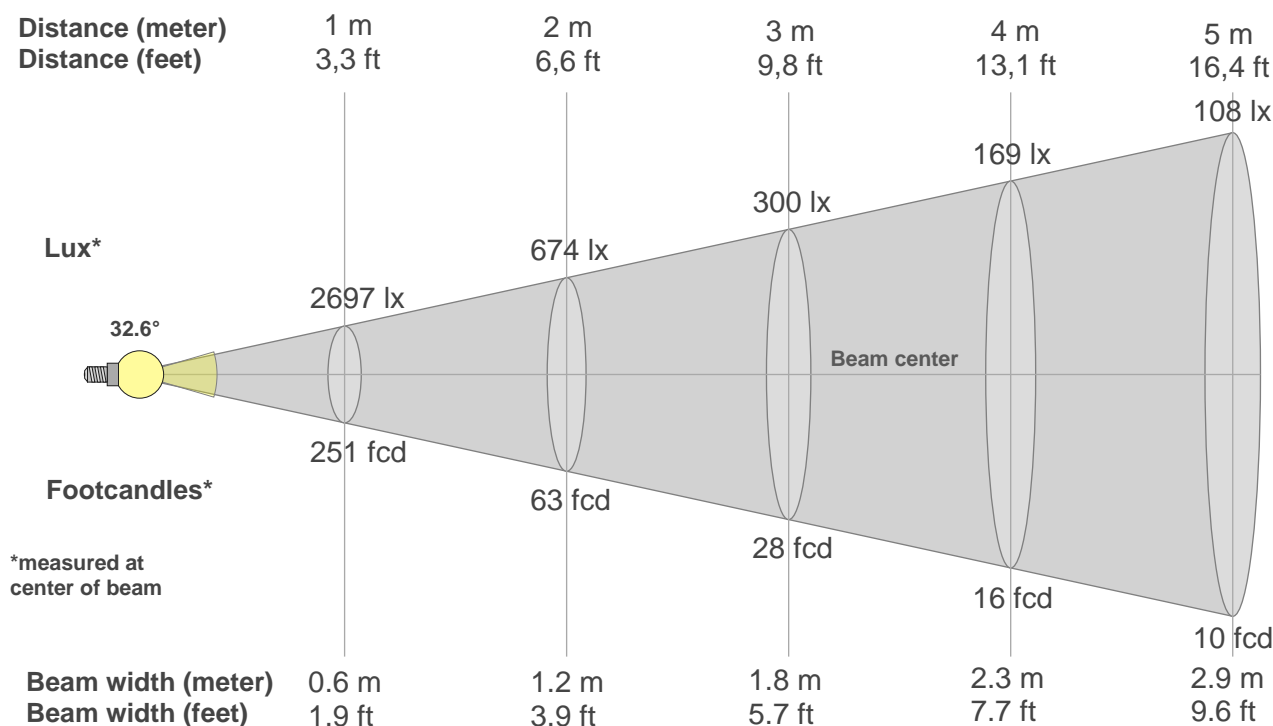
Fidelity index Rf

Rg 99.5

Gammut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 93 | -4% | 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% | 1% |
| 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 |
| 2697lx | 674lx | 300lx | 169lx | 108lx | 75lx | 55lx | 42lx | 33lx | 27lx | 22lx | 19lx | 16lx | 14lx | 12lx | 11lx | 9lx | 8lx | 7lx | 7lx |
| 250.5fcd | 62.6fcd | 27.8fcd | 15.7fcd | 10fcd | 7fcd | 5.1fcd | 3.9fcd | 3.1fcd | 2.5fcd | 2.1fcd | 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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2697 | 2676 | 2608 | 2491 | 2328 | 2128 | 1893 | 1645 | 1394 | 1149 | 922 | 725 | 560 | 424 | 313 | 225 | 160 | 116 | 83 | 60 |
| 100% | 99% | 97% | 92% | 86% | 79% | 70% | 61% | 52% | 43% | 34% | 27% | 21% | 16% | 12% | 8% | 6% | 4% | 3% | 2% |

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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2697 | 2676 | 2609 | 2496 | 2333 | 2127 | 1896 | 1647 | 1391 | 1140 | 917 | 721 | 552 | 409 | 295 | 212 | 150 | 104 | 72 | 49 |
| 100% | 99% | 97% | 93% | 87% | 79% | 70% | 61% | 52% | 42% | 34% | 27% | 20% | 15% | 11% | 8% | 6% | 4% | 3% | 2% |

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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2697 | 2654 | 2567 | 2441 | 2280 | 2086 | 1864 | 1628 | 1391 | 1160 | 943 | 750 | 585 | 447 | 332 | 240 | 171 | 125 | 89 | 64 |
| 100% | 98% | 95% | 91% | 85% | 77% | 69% | 60% | 52% | 43% | 35% | 28% | 22% | 17% | 12% | 9% | 6% | 5% | 3% | 2% |

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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2697 | 2671 | 2601 | 2481 | 2319 | 2120 | 1893 | 1646 | 1391 | 1150 | 927 | 726 | 554 | 415 | 306 | 220 | 154 | 108 | 77 | 54 |
| 100% | 99% | 96% | 92% | 86% | 79% | 70% | 61% | 52% | 43% | 34% | 27% | 21% | 15% | 11% | 8% | 6% | 4% | 3% | 2% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 32.6° | 57.7° | 73.9° | 99.4% | 98.3% |