

Light efficiency:

47 Lumen/Watt

Light quality:

CRI: 94.6

Color temperature:

3107 K

Output: 895 lm

Peak: 3911 cd

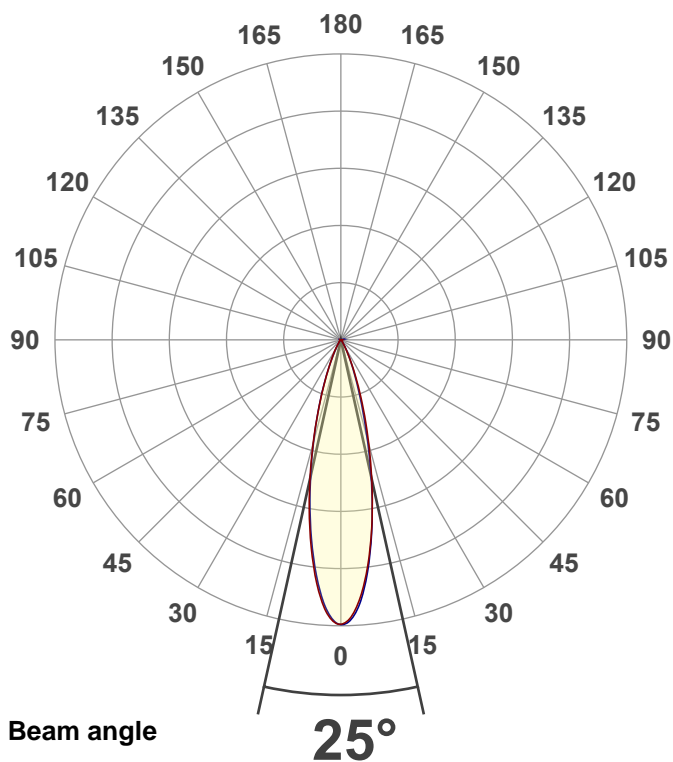
Power: 19.0 W

PF: 0.97



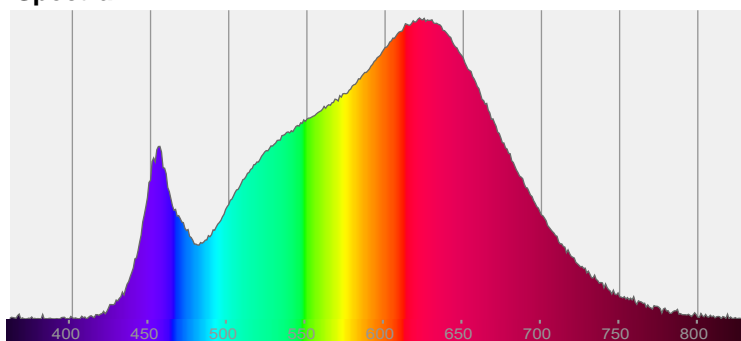
NU3-RA-WD-15LM-3018-97-25D-NA-SBL-WH-WH

Date and time:
7/14/2022 9:23:36 AM

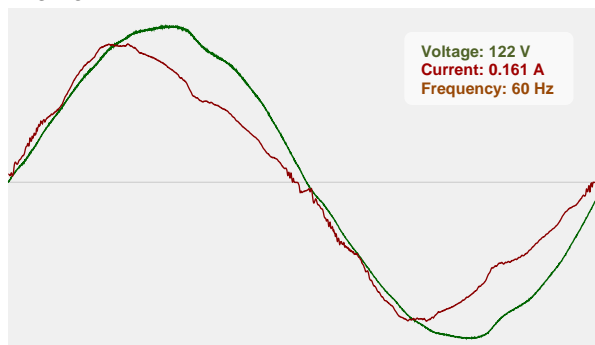


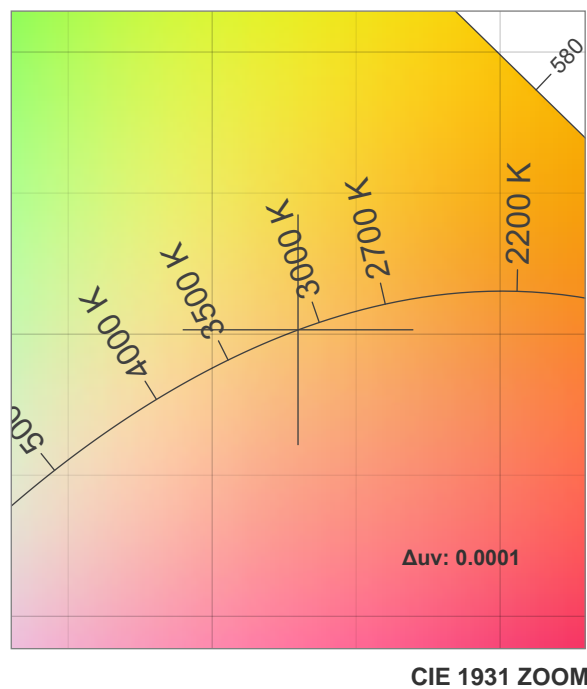
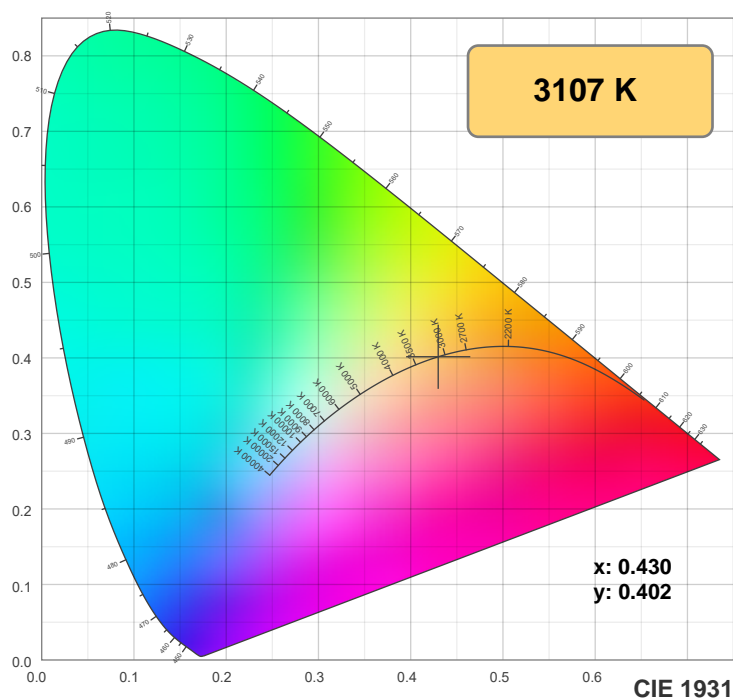
CIE 1931
x: 0.430
y: 0.402

Spectra

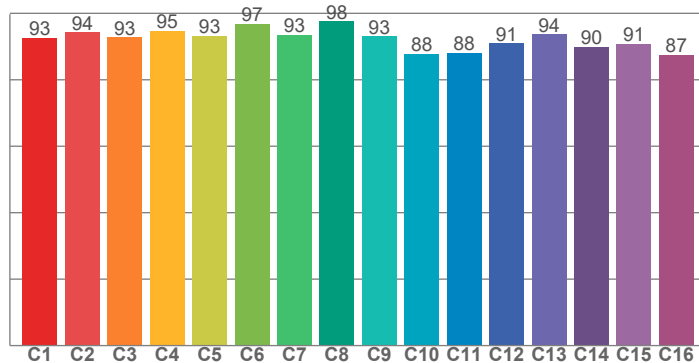


Power

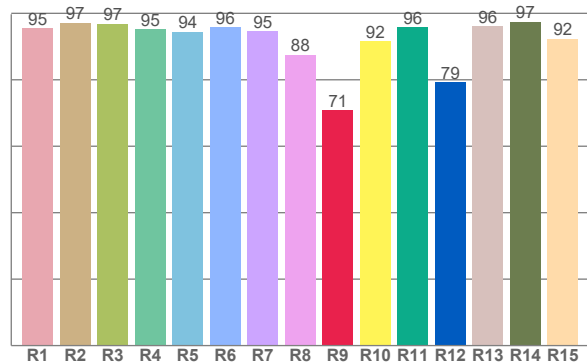




TM30: 92.3



CRI: 94.6 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95.4 | 97.1 | 96.9 | 95.3 | 94.5 | 95.7 | 94.7 | 87.6 | 70.8 | 91.6 | 95.7 | 79.3 | 96.1 | 97.4 | 92.4 |

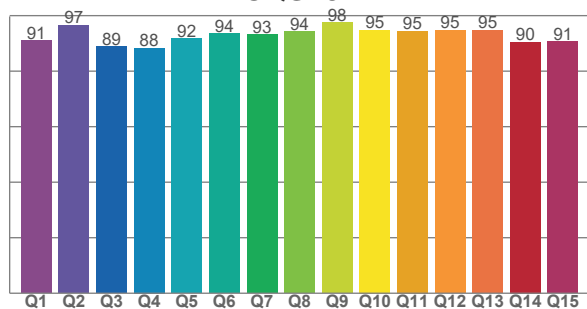
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 92.5 | 94.2 | 92.8 | 94.8 | 93.2 | 96.9 | 93.5 | 97.6 | 93.1 | 87.8 | 88.0 | 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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91.0 | 96.5 | 88.9 | 88.3 | 91.8 | 93.5 | 93.1 | 94.3 | 97.5 | 94.8 | 94.5 | 94.7 | 94.7 | 90.4 | 90.7 |

CQS: 92.4



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 |
| 3107 K | 94.6 | 70.8 | 92.3 | 99.4 | 92.4 | 0.430 | 0.402 | 0.247 | 0.346 | 0.0001 |

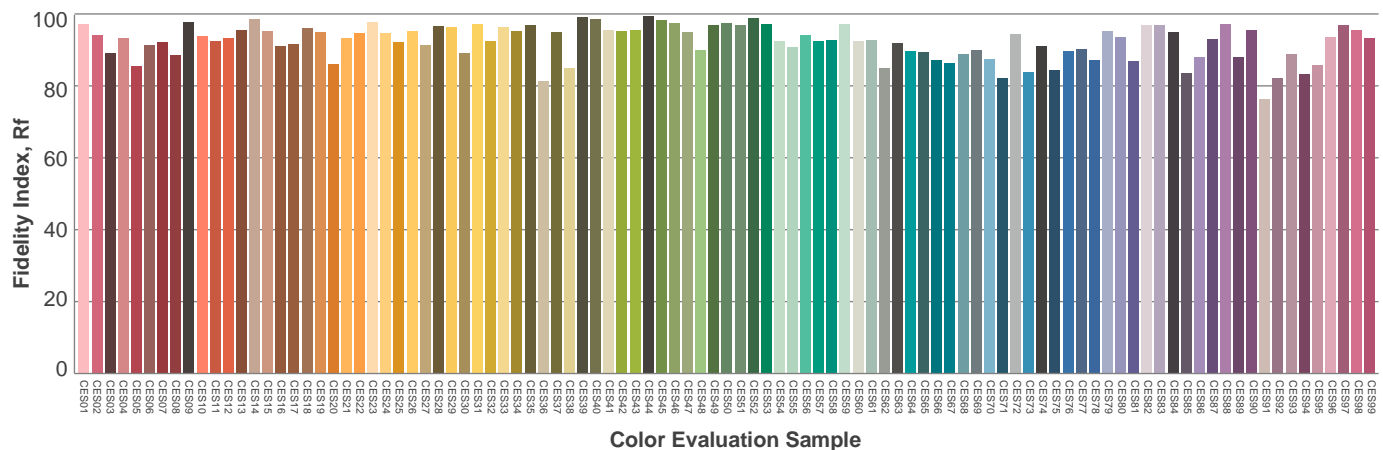
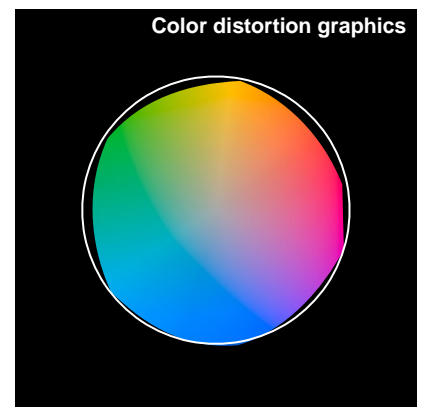
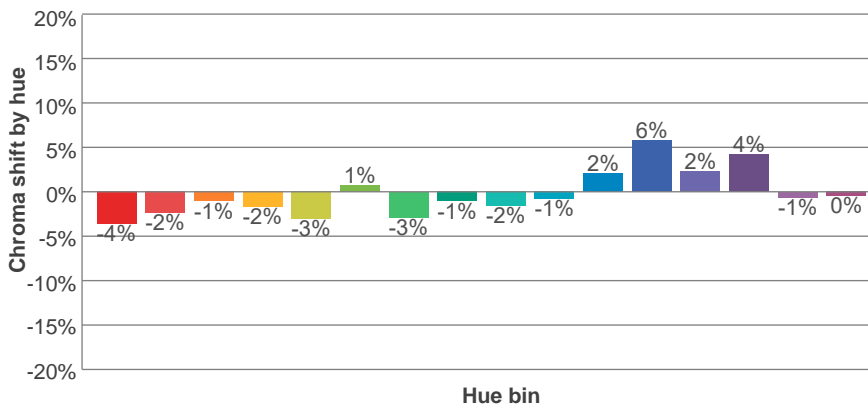
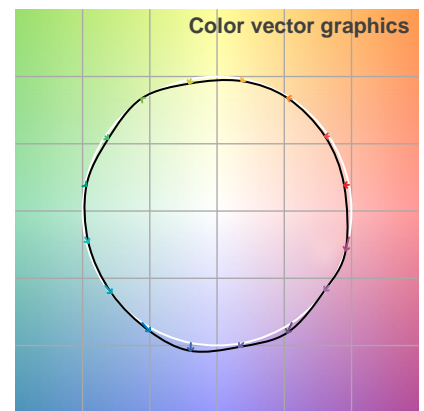
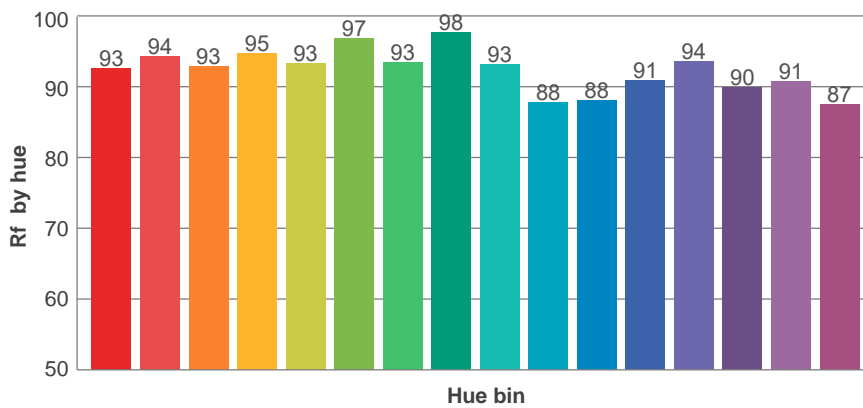
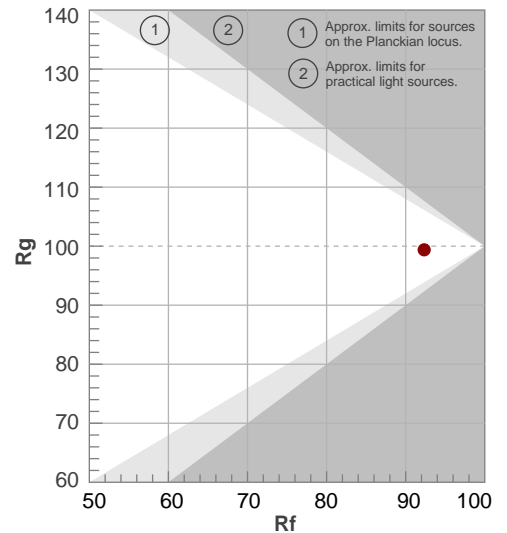
Rf 92.3

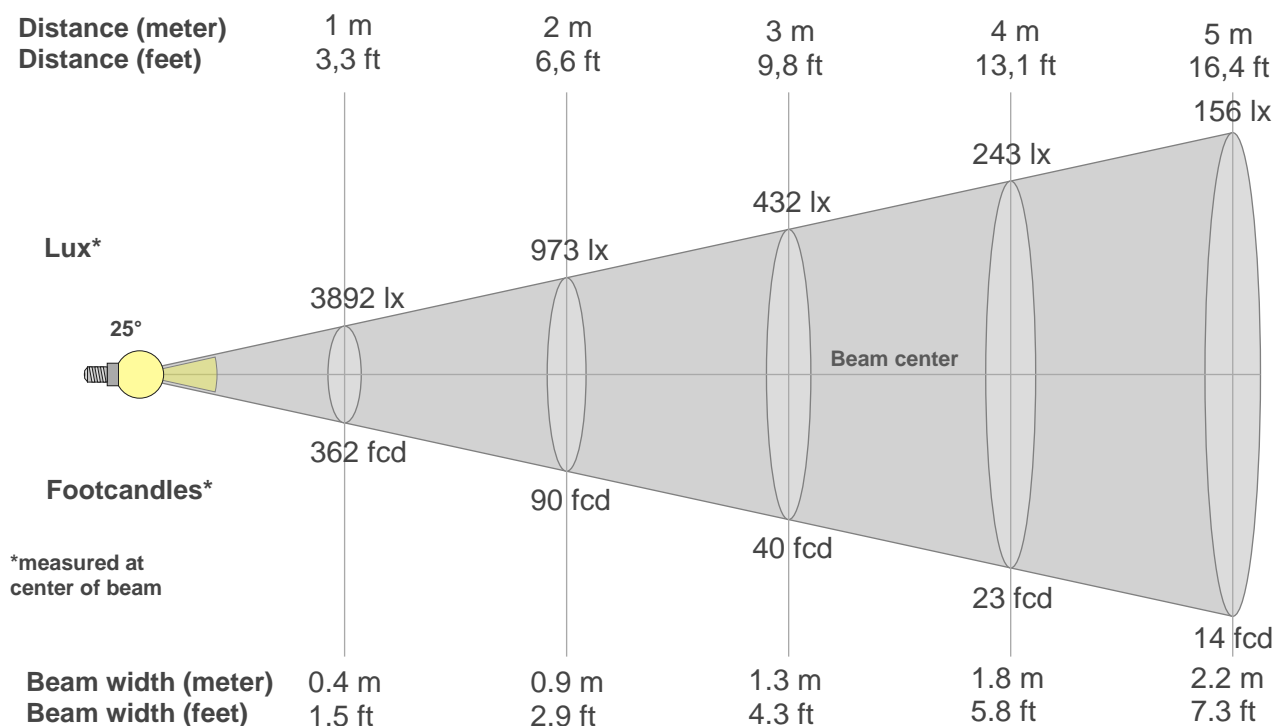
Fidelity index Rf

Rg 99.4

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 | 93 | -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 | 87 | 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 |
| 3892lx | 973lx | 432lx | 243lx | 156lx | 108lx | 79lx | 61lx | 48lx | 39lx | 32lx | 27lx | 23lx | 20lx | 17lx | 15lx | 13lx | 12lx | 11lx | 10lx |
| 361.6fcd | 90.4fcd | 40.2fcd | 22.6fcd | 14.5fcd | 10fcd | 7.4fcd | 5.7fcd | 4.5fcd | 3.6fcd | 3fcd | 2.5fcd | 2.1fcd | 1.8fcd | 1.6fcd | 1.4fcd | 1.3fcd | 1.1fcd | 1fcd | 0.9fcd |

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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 3892 | 3819 | 3591 | 3265 | 2888 | 2481 | 2067 | 1672 | 1320 | 1013 | 752 | 538 | 376 | 257 | 171 | 112 | 74 | 50 | 36 | 25 |
| 100% | 98% | 92% | 84% | 74% | 64% | 53% | 43% | 34% | 26% | 19% | 14% | 10% | 7% | 4% | 3% | 2% | 1% | 1% | 1% |

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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 3892 | 3843 | 3652 | 3313 | 2914 | 2480 | 2036 | 1597 | 1220 | 913 | 671 | 484 | 342 | 243 | 166 | 110 | 72 | 47 | 31 | 21 |
| 100% | 99% | 94% | 85% | 75% | 64% | 52% | 41% | 31% | 23% | 17% | 12% | 9% | 6% | 4% | 3% | 2% | 1% | 1% | 1% |

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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 3892 | 3821 | 3616 | 3301 | 2911 | 2493 | 2074 | 1671 | 1301 | 976 | 726 | 532 | 387 | 280 | 202 | 144 | 101 | 69 | 48 | 34 |
| 100% | 98% | 93% | 85% | 75% | 64% | 53% | 43% | 33% | 25% | 19% | 14% | 10% | 7% | 5% | 4% | 3% | 2% | 1% | 1% |

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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 3892 | 3799 | 3574 | 3243 | 2849 | 2438 | 2029 | 1638 | 1280 | 983 | 739 | 535 | 370 | 245 | 163 | 115 | 81 | 57 | 41 | 29 |
| 100% | 98% | 92% | 83% | 73% | 63% | 52% | 42% | 33% | 25% | 19% | 14% | 9% | 6% | 4% | 3% | 2% | 1% | 1% | 1% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 25° | 47.5° | 62.2° | 99.6% | 99.0% |