

Light efficiency:

68 Lumen/Watt

Light quality:

CRI: 93.9

Color temperature:

2287 K

Output: 765 lm

Peak: 4720 cd

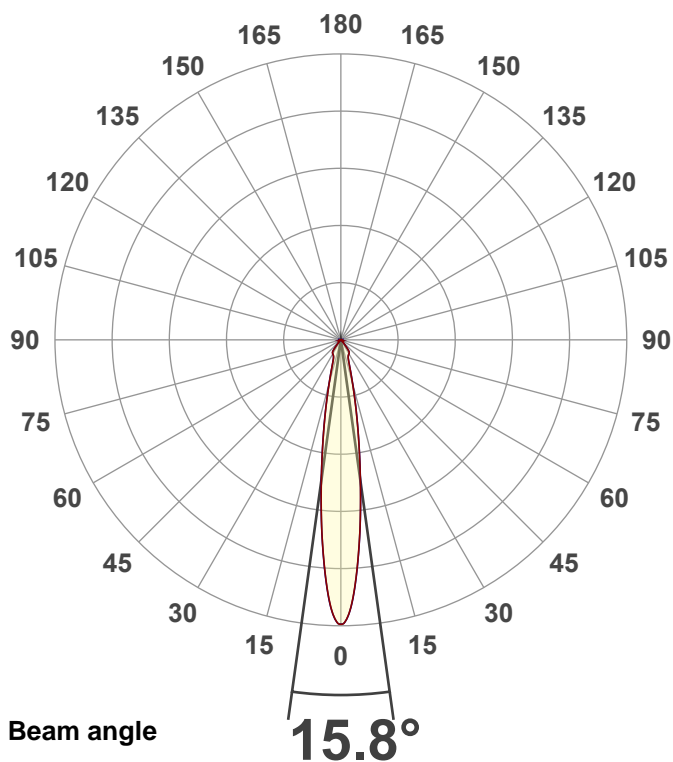
Power: 11.3 W

PF: 0.96



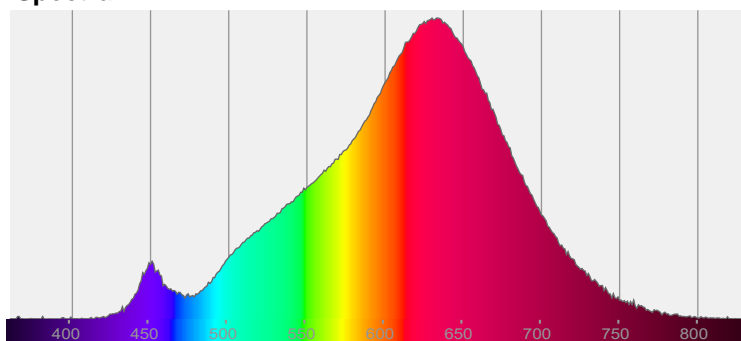
NU3-RD-SW-10LM-22K-90-15D-NL-WH-WH

Date and time:
12/13/2024 4:20:47 PM

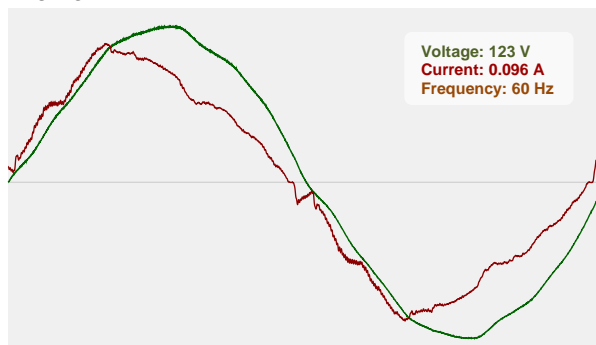


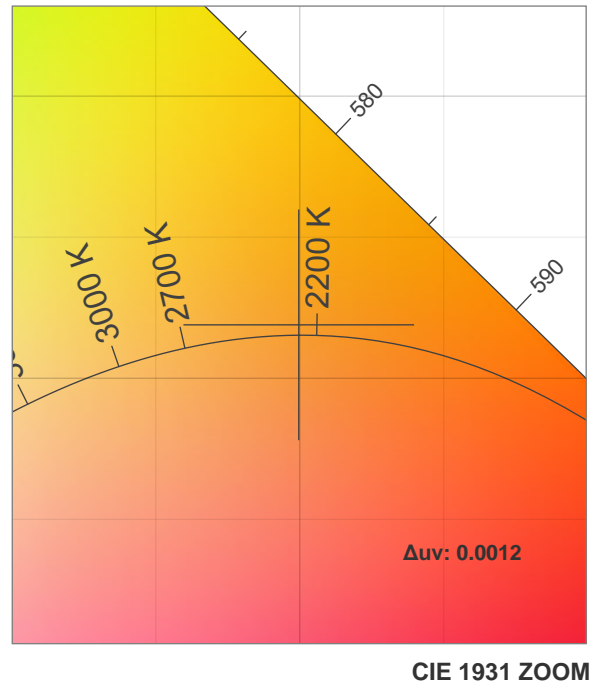
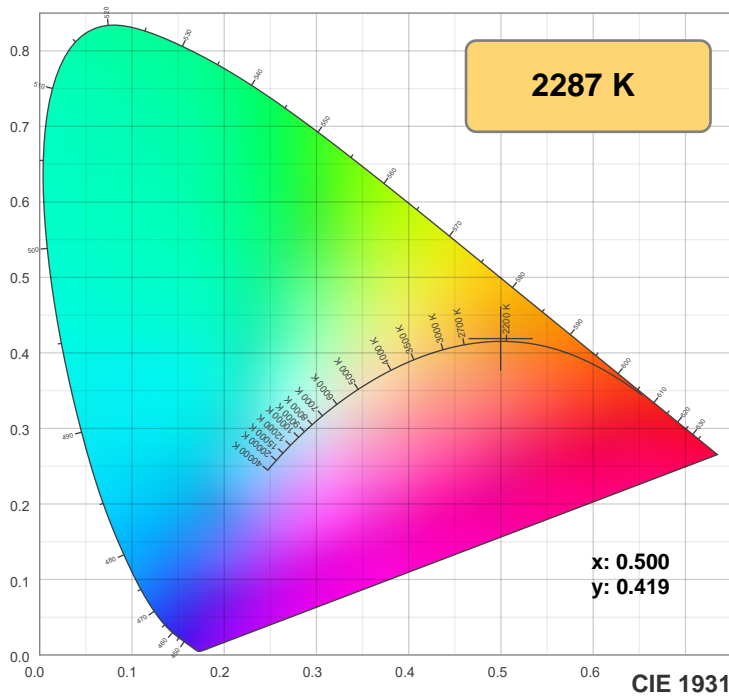
CIE 1931
x: 0.500
y: 0.419

Spectra

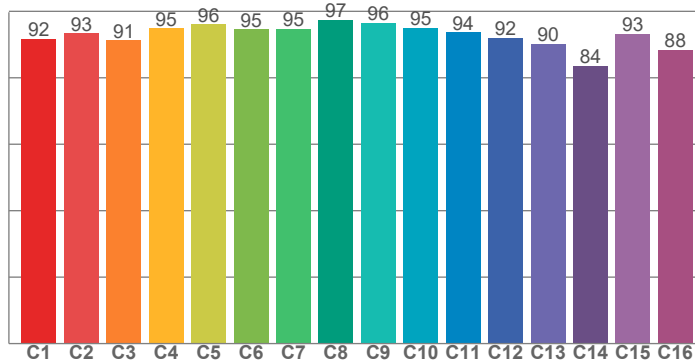


Power

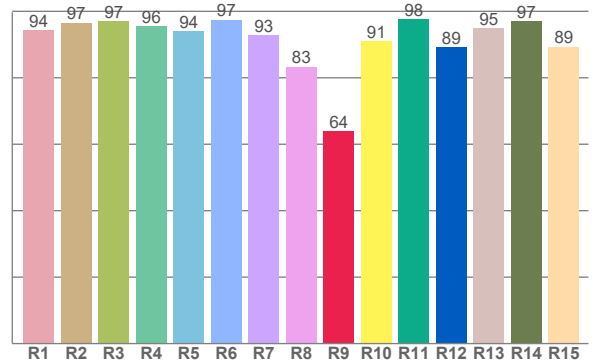




TM30: 93.3



CRI: 93.9 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94.3 | 96.6 | 97.0 | 95.6 | 94.0 | 97.5 | 92.9 | 83.3 | 63.9 | 91.0 | 97.7 | 89.3 | 94.9 | 97.0 | 89.4 |

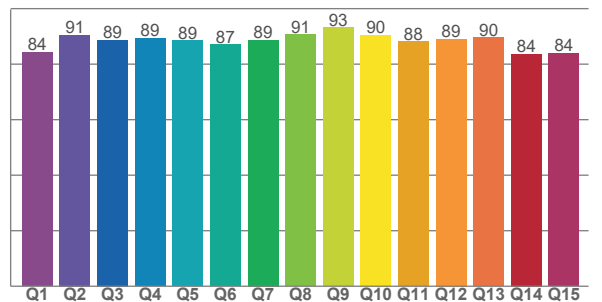
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91.7 | 93.4 | 91.2 | 94.8 | 96.0 | 94.6 | 94.8 | 97.4 | 96.5 | 95.0 | 93.7 | 92.1 | 90.2 | 83.5 | 93.2 | 88.4 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 84.3 | 90.6 | 88.7 | 89.3 | 88.5 | 87.1 | 88.7 | 90.6 | 93.2 | 90.4 | 88.2 | 89.1 | 89.6 | 83.6 | 83.9 |

CQS: 87.8



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 |
| 2287 K | 93.9 | 63.9 | 93.3 | 100.1 | 87.8 | 0.500 | 0.419 | 0.284 | 0.358 | 0.0012 |

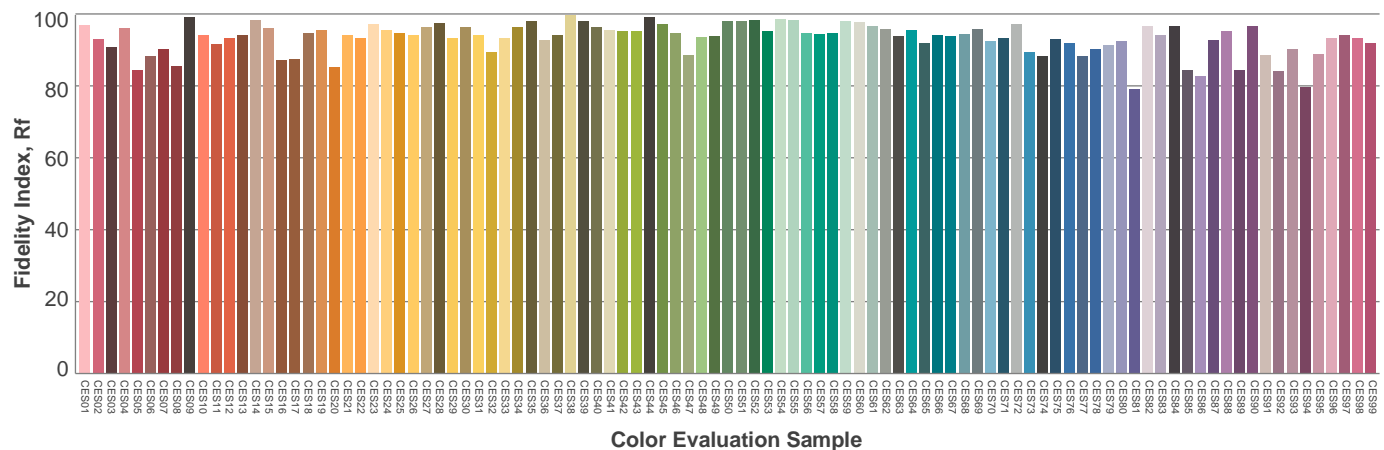
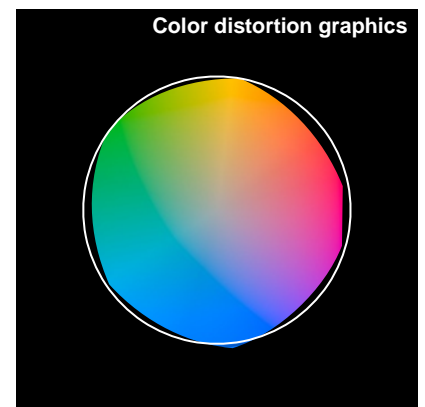
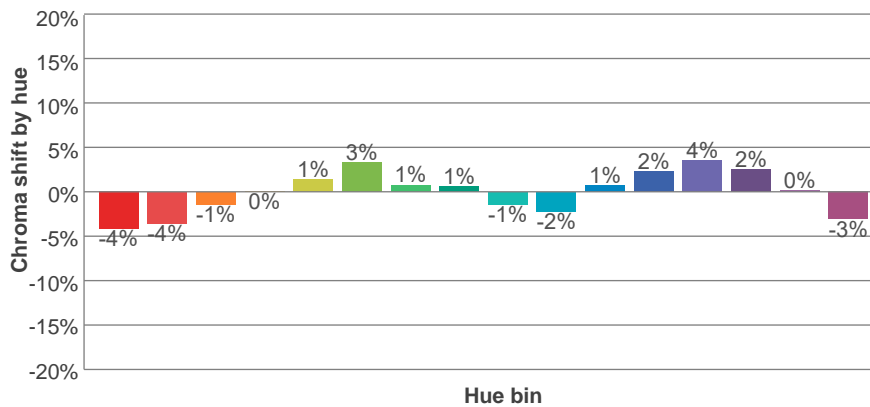
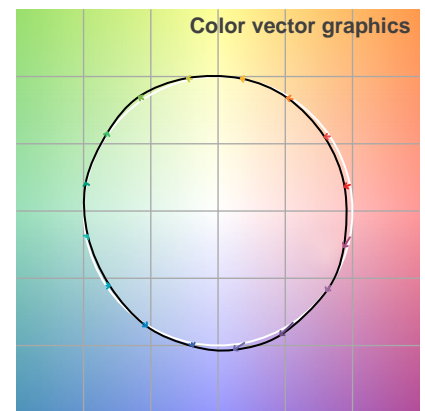
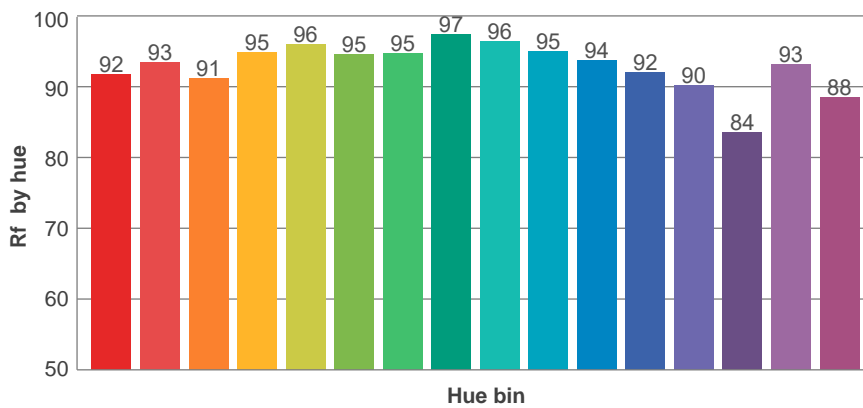
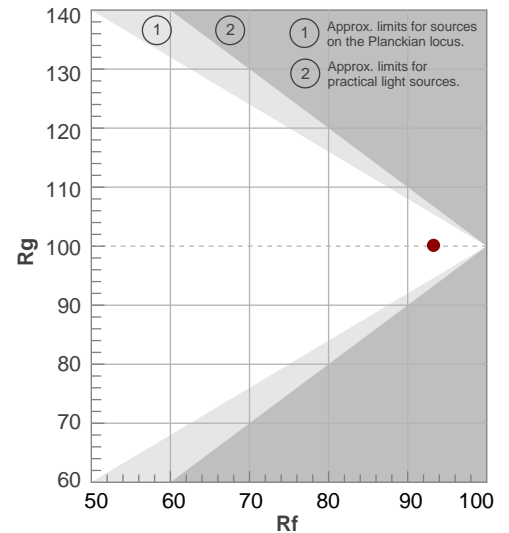
Rf 93.3

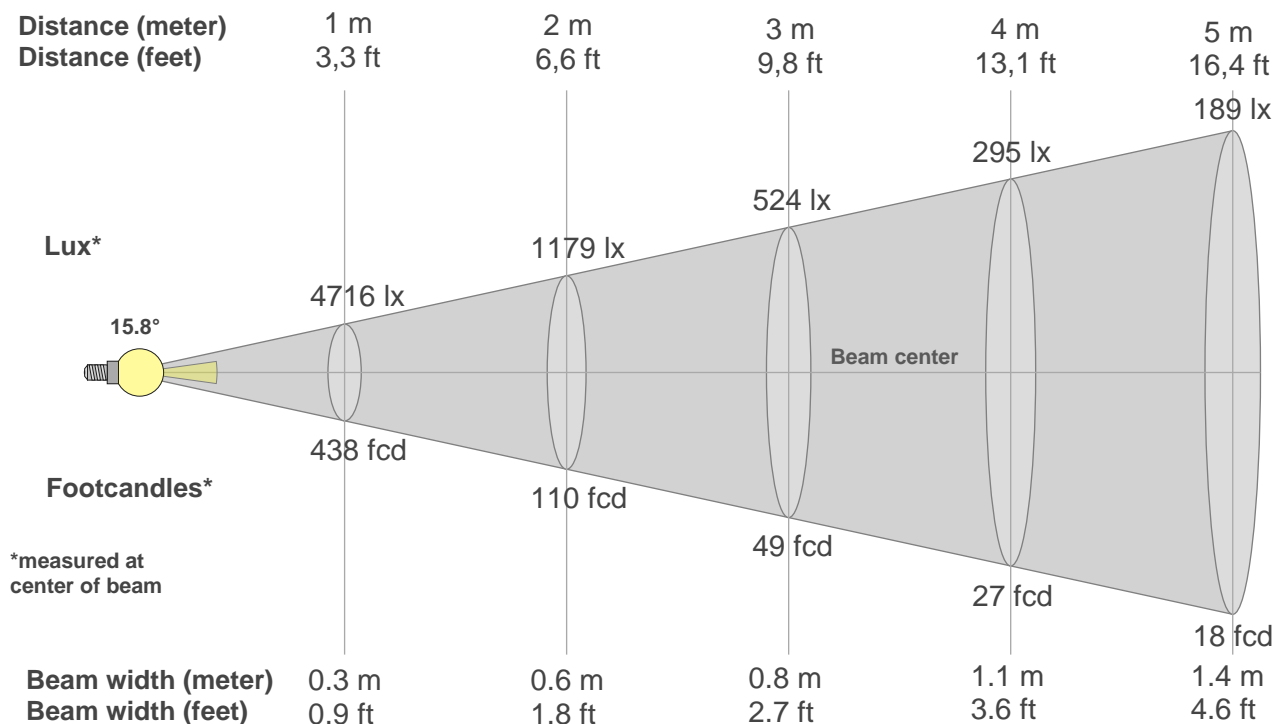
Fidelity index Rf

Rg 100.1

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 92 | -4% | -1% |
| 2 | 93 | -4% | 2% |
| 3 | 91 | -1% | 4% |
| 4 | 95 | 0% | 3% |
| 5 | 96 | 1% | 3% |
| 6 | 95 | 3% | 2% |
| 7 | 95 | 1% | -3% |
| 8 | 97 | 1% | -1% |
| 9 | 96 | -1% | -1% |
| 10 | 95 | -2% | 1% |
| 11 | 94 | 1% | 4% |
| 12 | 92 | 2% | 1% |
| 13 | 90 | 4% | -9% |
| 14 | 84 | 2% | -13% |
| 15 | 93 | 0% | -5% |
| 16 | 88 | -3% | -8% |





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 |
| 4716lx | 1179lx | 524lx | 295lx | 189lx | 131lx | 96lx | 74lx | 58lx | 47lx | 39lx | 33lx | 28lx | 24lx | 21lx | 18lx | 16lx | 15lx | 13lx | 12lx |
| 438.2fcd | 109.5fcd | 48.7fcd | 27.4fcd | 17.5fcd | 12.2fcd | 8.9fcd | 6.8fcd | 5.4fcd | 4.4fcd | 3.6fcd | 3fcd | 2.6fcd | 2.2fcd | 1.9fcd | 1.7fcd | 1.5fcd | 1.4fcd | 1.2fcd | 1.1fcd |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| 4716 | 4652 | 4469 | 4177 | 3821 | 3442 | 3061 | 2676 | 2318 | 1996 | 1710 | 1459 | 1241 | 1051 | 887 | 752 | 643 | 555 | 482 | 425 |
| 100% | 99% | 95% | 89% | 81% | 73% | 65% | 57% | 49% | 42% | 36% | 31% | 26% | 22% | 19% | 16% | 14% | 12% | 10% | 9% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| 4716 | 4655 | 4472 | 4185 | 3830 | 3450 | 3067 | 2685 | 2325 | 2001 | 1716 | 1465 | 1246 | 1055 | 892 | 757 | 647 | 557 | 483 | 428 |
| 100% | 99% | 95% | 89% | 81% | 73% | 65% | 57% | 49% | 42% | 36% | 31% | 26% | 22% | 19% | 16% | 14% | 12% | 10% | 9% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| 4716 | 4652 | 4469 | 4177 | 3821 | 3442 | 3061 | 2676 | 2318 | 1996 | 1710 | 1459 | 1241 | 1051 | 887 | 752 | 643 | 555 | 482 | 425 |
| 100% | 99% | 95% | 89% | 81% | 73% | 65% | 57% | 49% | 42% | 36% | 31% | 26% | 22% | 19% | 16% | 14% | 12% | 10% | 9% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| 4716 | 4655 | 4472 | 4185 | 3830 | 3450 | 3067 | 2685 | 2325 | 2001 | 1716 | 1465 | 1246 | 1055 | 892 | 757 | 647 | 557 | 483 | 428 |
| 100% | 99% | 95% | 89% | 81% | 73% | 65% | 57% | 49% | 42% | 36% | 31% | 26% | 22% | 19% | 16% | 14% | 12% | 10% | 9% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 15.8° | 36.4° | 76.8° | 99.5% | 99.4% |