

Light efficiency:

37 Lumen/Watt

Light quality:

CRI: 91.7

Color temperature:

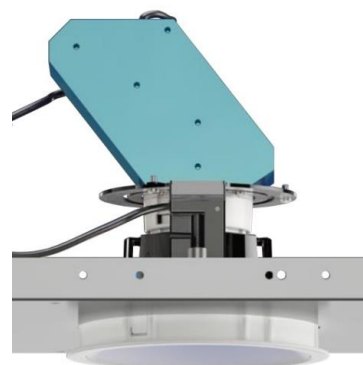
2988 K

Output: 939 lm

Peak: 1325 cd

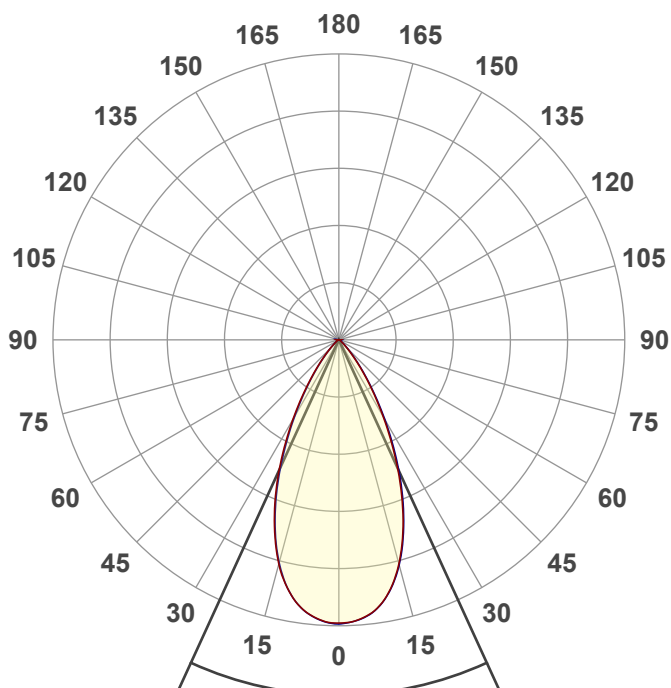
Power: 25.4 W

PF: 0.96



NU4-RD-RGBW-10LM-30K-90-50D-NL-WH-WH

Date and time:
5/9/2022 10:31:37 AM



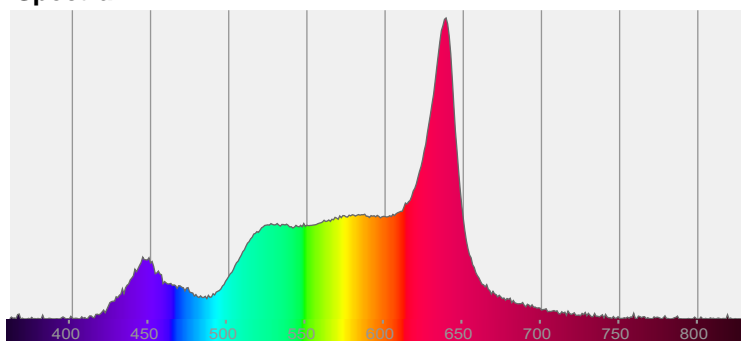
Beam angle

49.2°

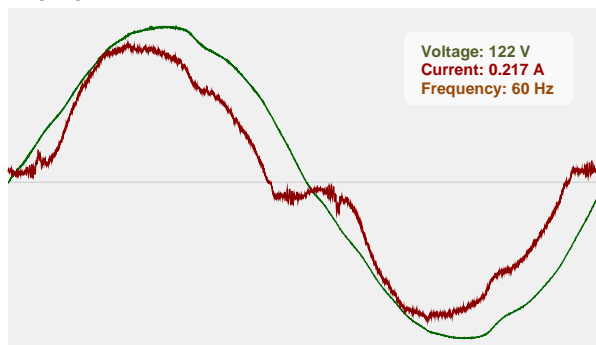


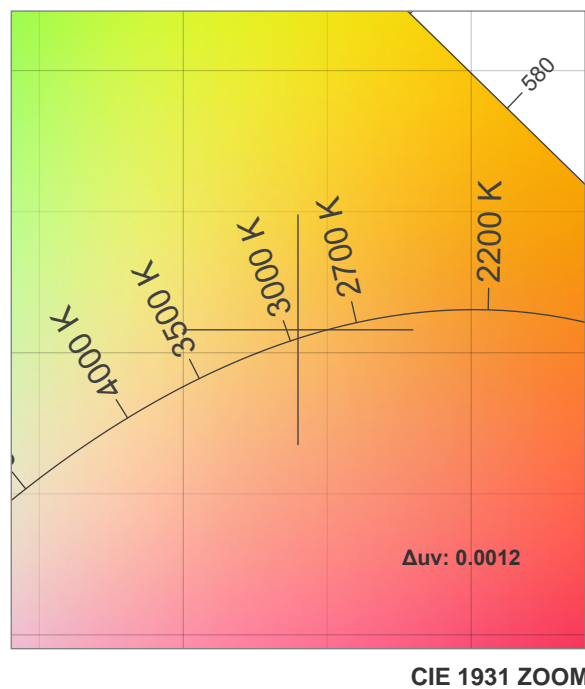
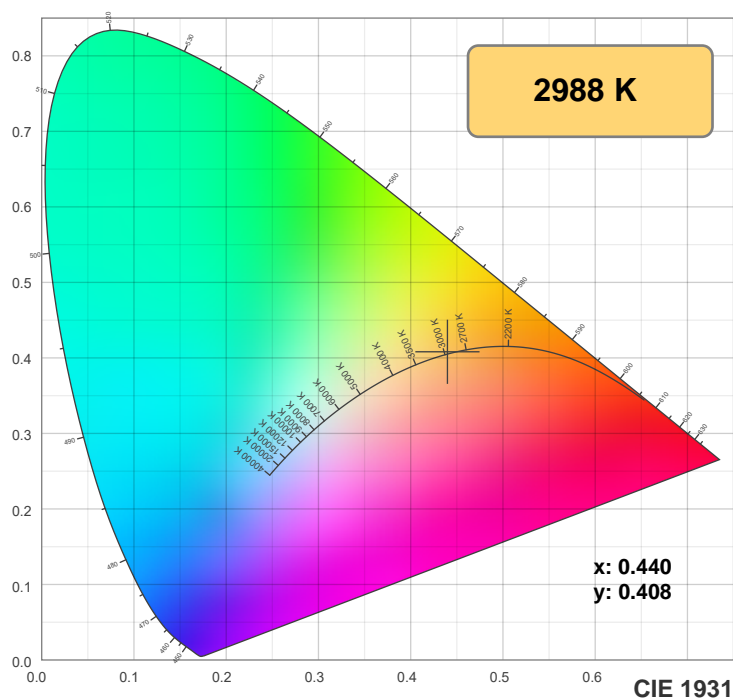
CIE 1931
x: 0.440
y: 0.408

Spectra

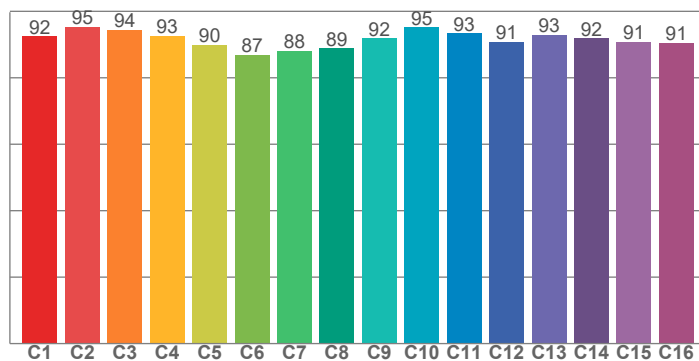


Power

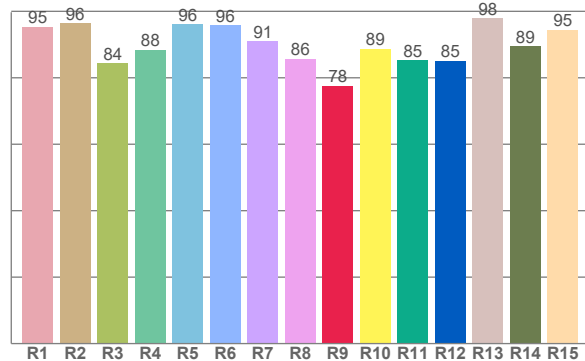




TM30: 91.9



CRI: 91.7 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95.3 | 96.4 | 84.4 | 88.5 | 96.1 | 95.9 | 90.9 | 85.7 | 77.6 | 88.7 | 85.2 | 85.2 | 98.0 | 89.5 | 94.5 |

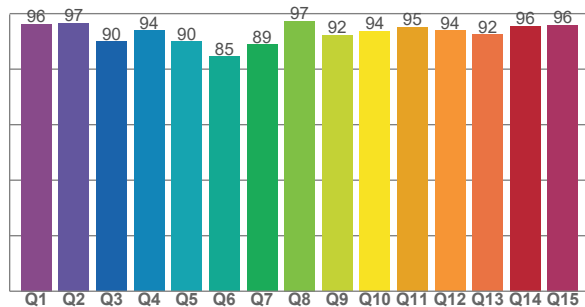
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 92.4 | 95.3 | 94.3 | 92.6 | 89.9 | 87.0 | 88.1 | 88.8 | 91.9 | 95.1 | 93.3 | 90.8 | 92.9 | 91.8 | 90.7 | 90.5 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96.3 | 96.7 | 90.0 | 93.9 | 89.9 | 84.6 | 88.8 | 97.3 | 92.2 | 93.7 | 95.1 | 93.9 | 92.4 | 95.6 | 95.8 |

CQS: 92.1



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 |
| 2988 K | 91.7 | 77.6 | 91.9 | 106.3 | 92.1 | 0.440 | 0.408 | 0.251 | 0.349 | 0.0012 |

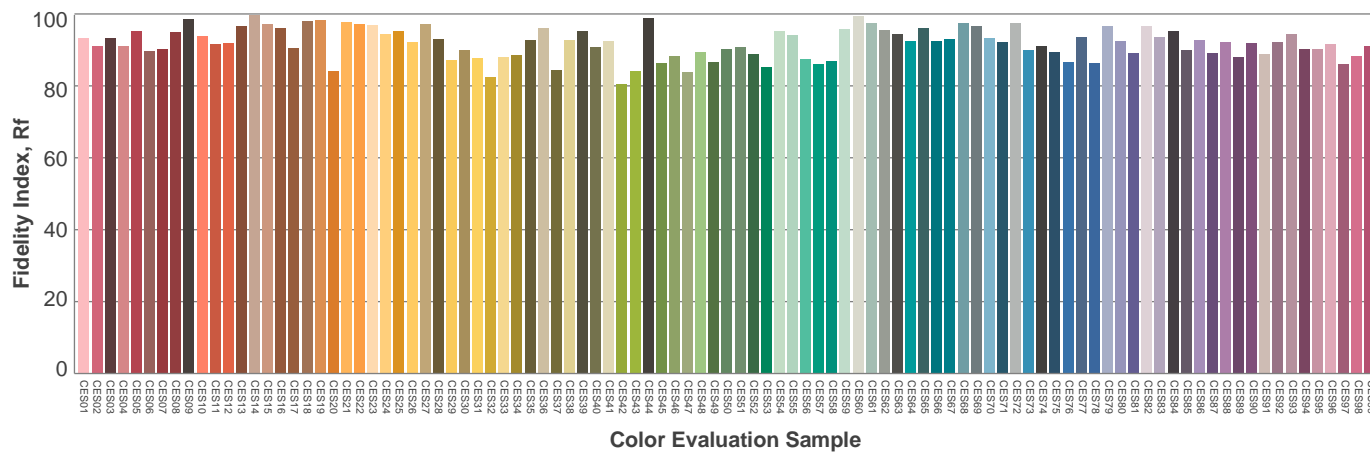
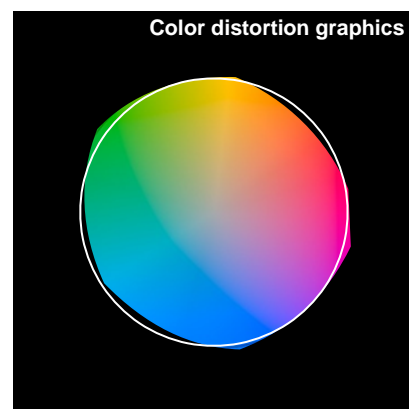
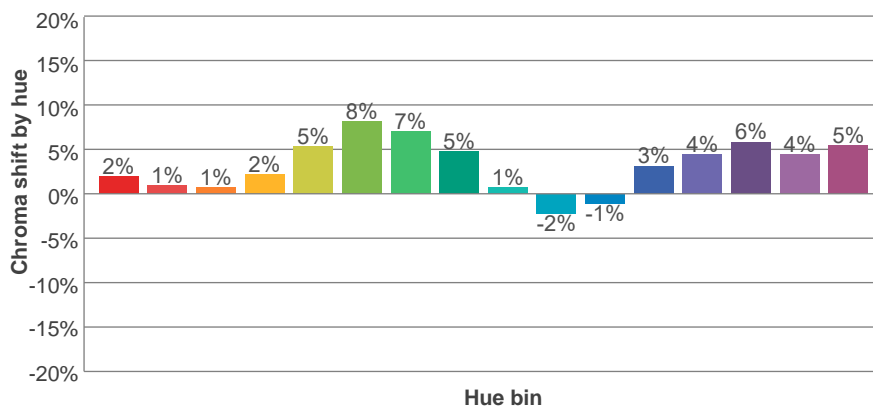
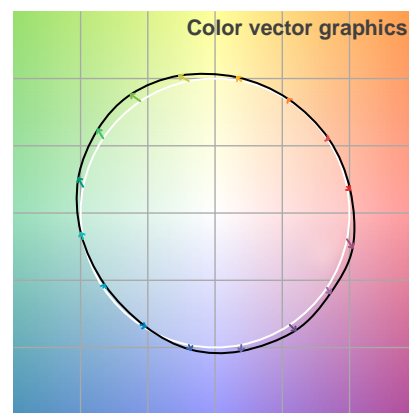
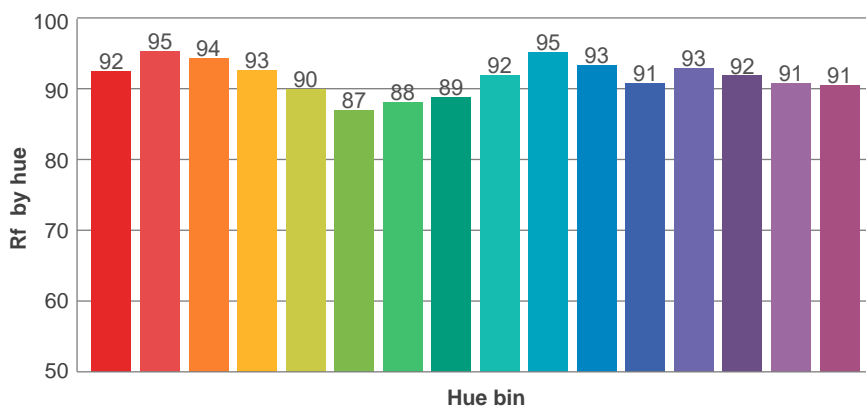
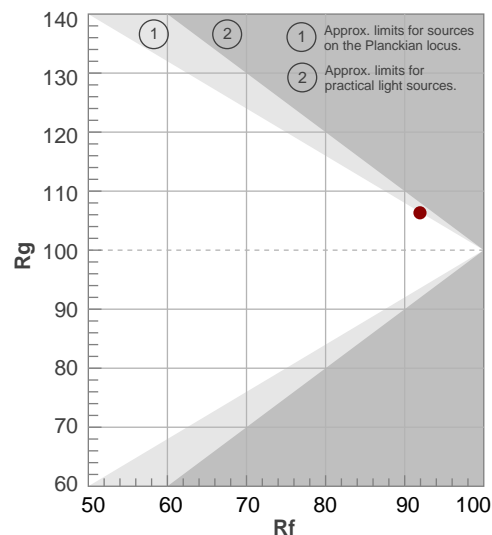
Rf 91.9

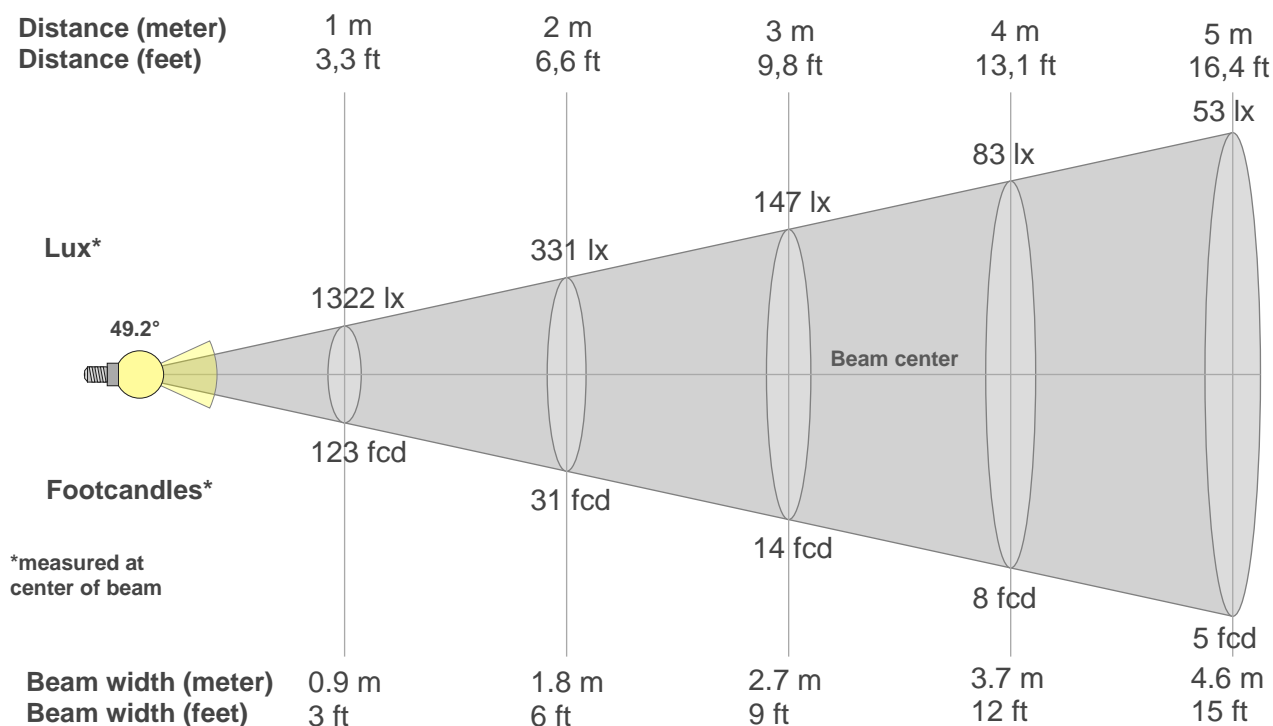
Fidelity index R_f

Rg 106.3

Gammut index Rg

| | | Graphic shifts (%) | |
|---------|-------|--------------------|-----|
| Hue Bin | R_f | Chroma | Hue |
| 1 | 92 | 2% | -3% |
| 2 | 95 | 1% | -1% |
| 3 | 94 | 1% | 2% |
| 4 | 93 | 2% | 4% |
| 5 | 90 | 5% | 6% |
| 6 | 87 | 8% | 3% |
| 7 | 88 | 7% | -3% |
| 8 | 89 | 5% | -5% |
| 9 | 92 | 1% | -5% |
| 10 | 95 | -2% | -1% |
| 11 | 93 | -1% | 4% |
| 12 | 91 | 3% | 2% |
| 13 | 93 | 4% | -1% |
| 14 | 92 | 6% | 1% |
| 15 | 91 | 4% | -2% |
| 16 | 91 | 5% | -5% |





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 |
| 1322lx | 331lx | 147lx | 83lx | 53lx | 37lx | 27lx | 21lx | 16lx | 13lx | 11lx | 9lx | 8lx | 7lx | 6lx | 5lx | 5lx | 4lx | 4lx | 3lx |
| 122.8fcd | 30.7fcd | 13.6fcd | 7.7fcd | 4.9fcd | 3.4fcd | 2.5fcd | 1.9fcd | 1.5fcd | 1.2fcd | 1fcd | 0.9fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.5fcd | 0.4fcd | 0.4fcd | 0.3fcd | 0.3fcd |

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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1322 | 1317 | 1307 | 1290 | 1265 | 1228 | 1177 | 1115 | 1042 | 962 | 875 | 782 | 687 | 591 | 500 | 415 | 336 | 268 | 209 | 159 |
| 100% | 100% | 99% | 98% | 96% | 93% | 89% | 84% | 79% | 73% | 66% | 59% | 52% | 45% | 38% | 31% | 25% | 20% | 16% | 12% |

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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1322 | 1319 | 1309 | 1292 | 1265 | 1228 | 1180 | 1120 | 1049 | 969 | 883 | 794 | 702 | 607 | 516 | 430 | 350 | 279 | 218 | 168 |
| 100% | 100% | 99% | 98% | 96% | 93% | 89% | 85% | 79% | 73% | 67% | 60% | 53% | 46% | 39% | 33% | 26% | 21% | 16% | 13% |

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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1322 | 1318 | 1306 | 1287 | 1260 | 1223 | 1174 | 1116 | 1043 | 963 | 879 | 790 | 698 | 604 | 514 | 430 | 351 | 280 | 219 | 169 |
| 100% | 100% | 99% | 97% | 95% | 92% | 89% | 84% | 79% | 73% | 66% | 60% | 53% | 46% | 39% | 32% | 27% | 21% | 17% | 13% |

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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1322 | 1320 | 1307 | 1288 | 1261 | 1223 | 1172 | 1109 | 1037 | 956 | 869 | 777 | 682 | 586 | 497 | 413 | 334 | 265 | 208 | 160 |
| 100% | 100% | 99% | 97% | 95% | 93% | 89% | 84% | 78% | 72% | 66% | 59% | 52% | 44% | 38% | 31% | 25% | 20% | 16% | 12% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 49.2° | 79° | 97° | 98.6% | 95.5% |