

Light efficiency:

45 Lumen/Watt

Light quality:

CRI: 96.1

Color temperature:

3112 K

Output: 1148 lm

Peak: 1415 cd

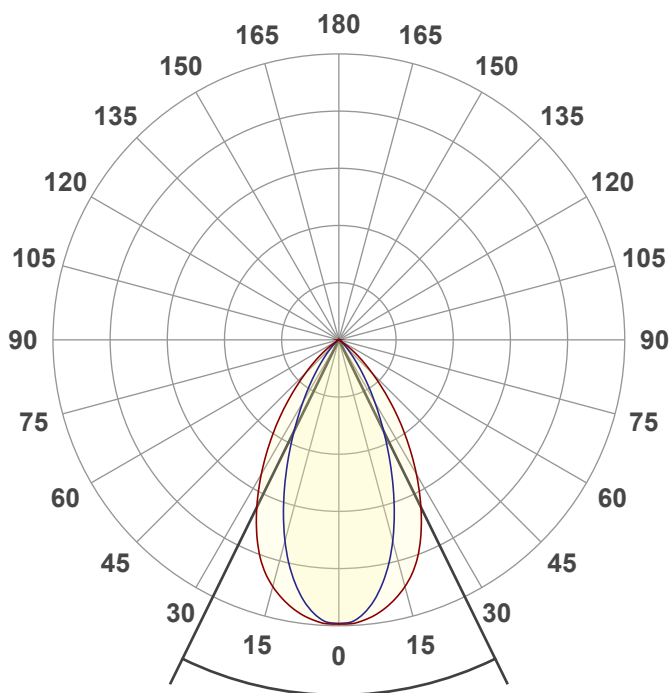
Power: 25.5 W

PF: 0.97



NU3-RA-WD-20LM-3018-97-35D-EA-NL-WH-WH

Date and time:
7/12/2022 2:41:12 PM



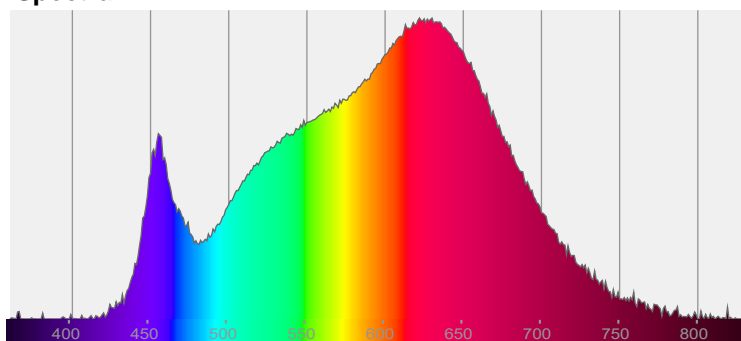
Beam angle

52.2°

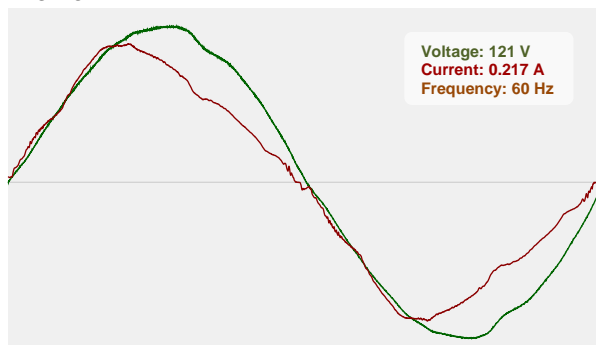


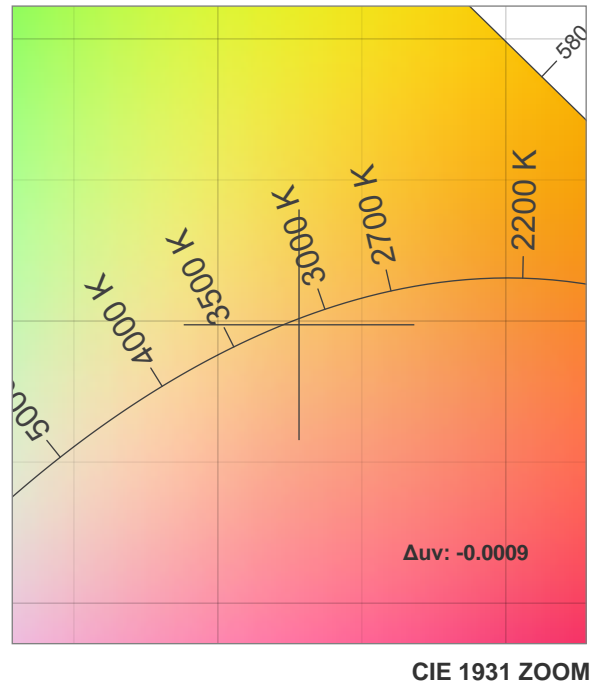
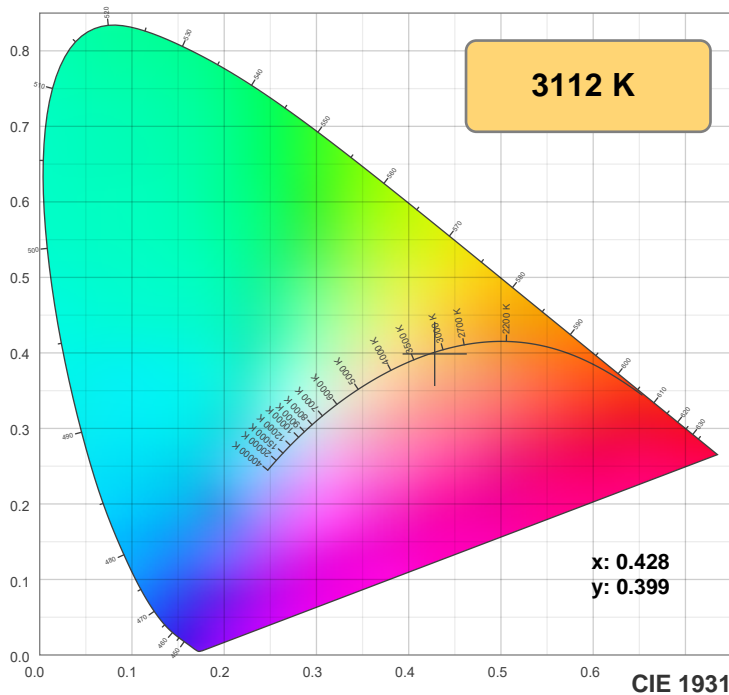
CIE 1931
x: 0.428
y: 0.399

Spectra

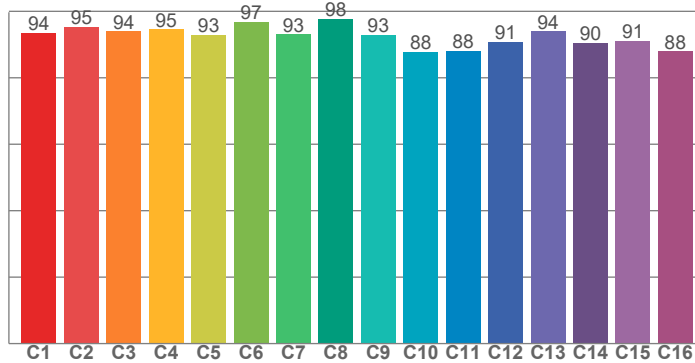


Power

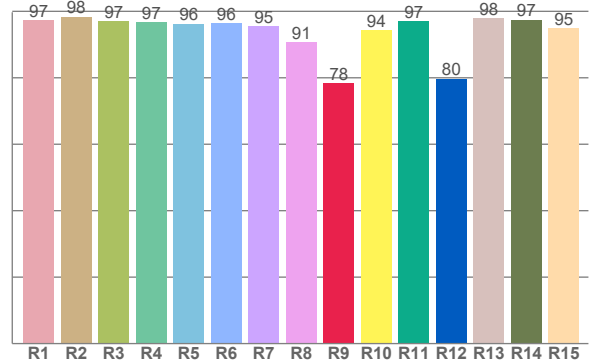




TM30: 92.6



CRI: 96.1 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 97.4 | 98.4 | 97.1 | 96.8 | 96.3 | 96.5 | 95.5 | 90.6 | 78.4 | 94.2 | 97.1 | 79.7 | 98.0 | 97.4 | 95.0 |

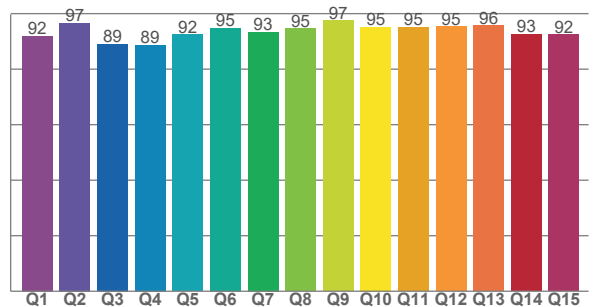
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93.6 | 95.3 | 93.9 | 94.6 | 92.9 | 96.8 | 93.1 | 97.8 | 92.8 | 87.8 | 88.2 | 90.9 | 93.9 | 90.5 | 91.1 | 87.9 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 92.0 | 96.6 | 89.1 | 88.7 | 92.4 | 94.7 | 93.3 | 94.6 | 97.5 | 95.2 | 95.1 | 95.4 | 95.7 | 92.6 | 92.5 |

CQS: 93.1



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 |
| 3112 K | 96.1 | 78.4 | 92.6 | 99.9 | 93.1 | 0.428 | 0.399 | 0.247 | 0.345 | -0.0009 |

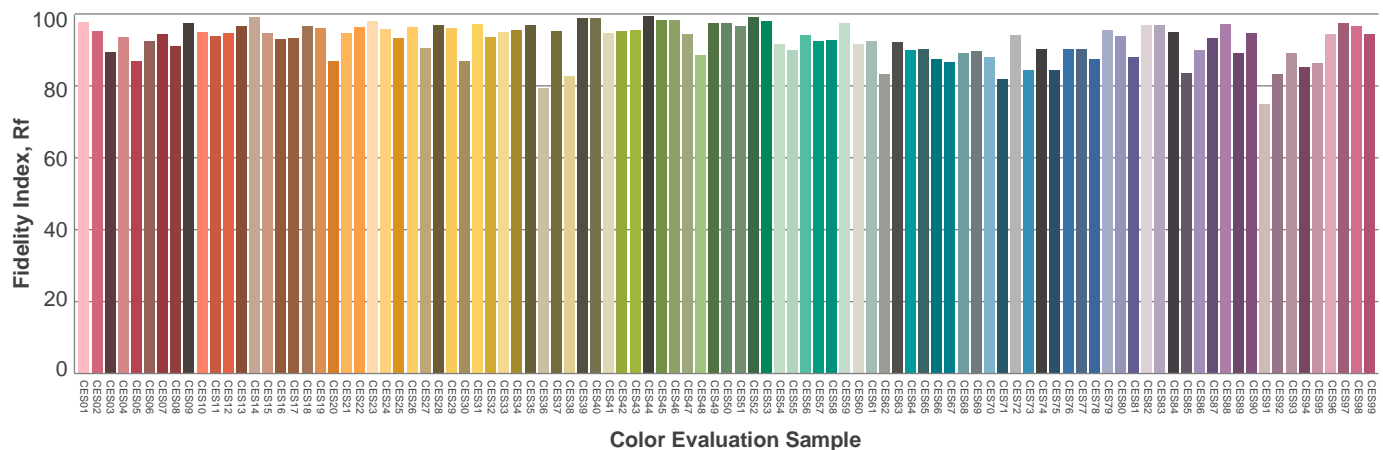
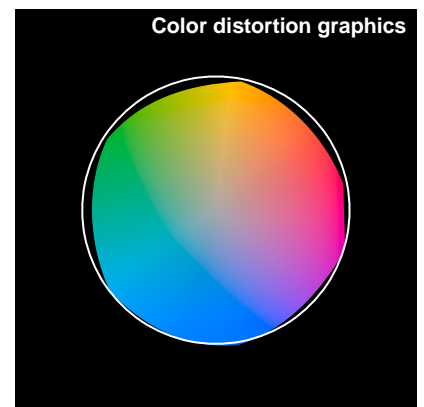
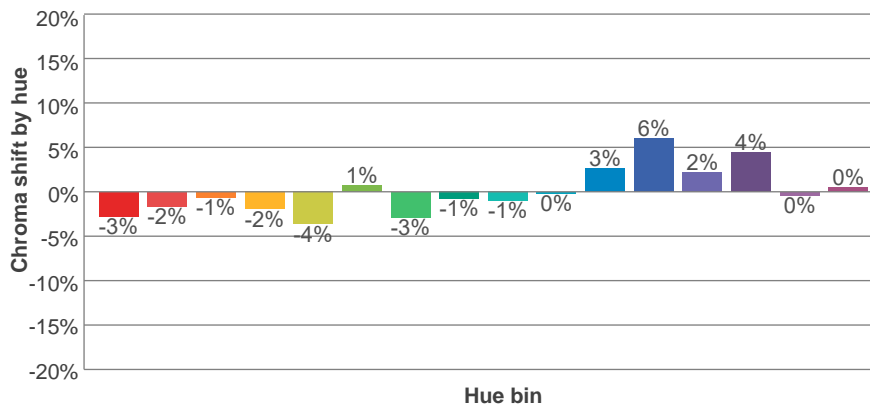
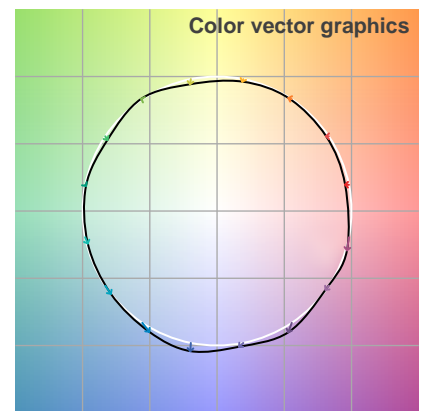
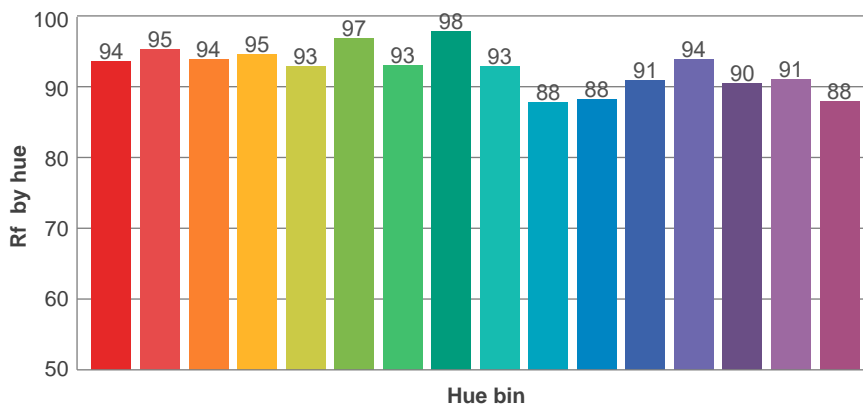
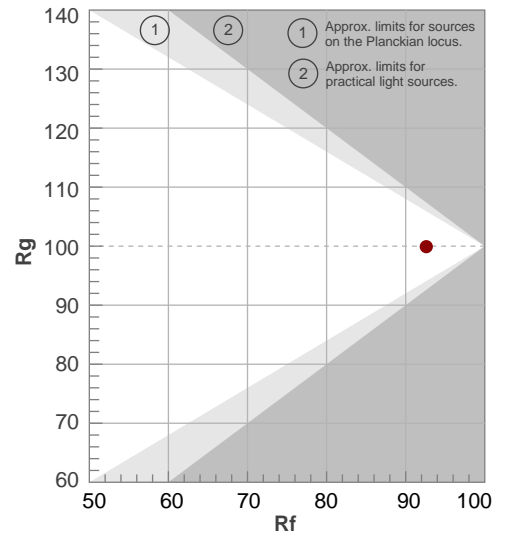
Rf 92.6

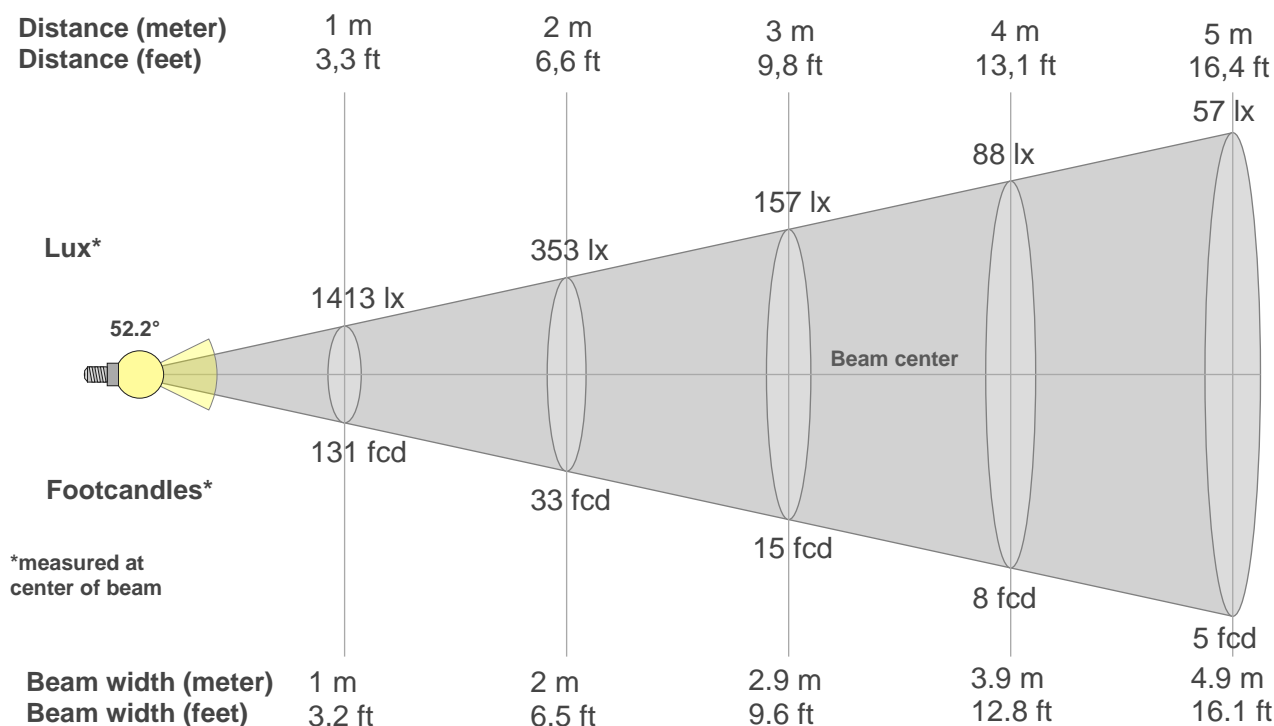
Fidelity index Rf

Rg 99.9

Gammut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 94 | -3% | 1% |
| 2 | 95 | -2% | 1% |
| 3 | 94 | -1% | 3% |
| 4 | 95 | -2% | 0% |
| 5 | 93 | -4% | 1% |
| 6 | 97 | 1% | 1% |
| 7 | 93 | -3% | 1% |
| 8 | 98 | -1% | 1% |
| 9 | 93 | -1% | 5% |
| 10 | 88 | 0% | 7% |
| 11 | 88 | 3% | 8% |
| 12 | 91 | 6% | 1% |
| 13 | 94 | 2% | -4% |
| 14 | 90 | 4% | -6% |
| 15 | 91 | 0% | -4% |
| 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 |
| 1413lx | 353lx | 157lx | 88lx | 57lx | 39lx | 29lx | 22lx | 17lx | 14lx | 12lx | 10lx | 8lx | 7lx | 6lx | 6lx | 5lx | 4lx | 4lx | 4lx |
| 131.3fcd | 32.8fcd | 14.6fcd | 8.2fcd | 5.3fcd | 3.6fcd | 2.7fcd | 2.1fcd | 1.6fcd | 1.3fcd | 1.1fcd | 0.9fcd | 0.8fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.5fcd | 0.4fcd | 0.4fcd | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 1413 | 1410 | 1403 | 1390 | 1372 | 1349 | 1319 | 1285 | 1246 | 1200 | 1145 | 1078 | 1006 | 929 | 850 | 770 | 689 | 610 | 534 | 459 |
| 100% | 100% | 99% | 98% | 97% | 95% | 93% | 91% | 88% | 85% | 81% | 76% | 71% | 66% | 60% | 54% | 49% | 43% | 38% | 33% |

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° |
|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1413 | 1402 | 1381 | 1345 | 1296 | 1233 | 1160 | 1077 | 986 | 890 | 791 | 693 | 599 | 511 | 429 | 356 | 292 | 235 | 184 | 141 |
| 100% | 99% | 98% | 95% | 92% | 87% | 82% | 76% | 70% | 63% | 56% | 49% | 42% | 36% | 30% | 25% | 21% | 17% | 13% | 10% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 1413 | 1410 | 1403 | 1390 | 1372 | 1349 | 1319 | 1285 | 1246 | 1200 | 1145 | 1078 | 1006 | 929 | 850 | 770 | 689 | 610 | 534 | 459 |
| 100% | 100% | 99% | 98% | 97% | 95% | 93% | 91% | 88% | 85% | 81% | 76% | 71% | 66% | 60% | 54% | 49% | 43% | 38% | 33% |

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° |
|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1413 | 1402 | 1381 | 1345 | 1296 | 1233 | 1160 | 1077 | 986 | 890 | 791 | 693 | 599 | 511 | 429 | 356 | 292 | 235 | 184 | 141 |
| 100% | 99% | 98% | 95% | 92% | 87% | 82% | 76% | 70% | 63% | 56% | 49% | 42% | 36% | 30% | 25% | 21% | 17% | 13% | 10% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 52.2° | 86.8° | 103.1° | 99.4% | 94.3% |