

Light efficiency:

59 Lumen/Watt

Light quality:

CRI: 81.8

Color temperature:

3054 K

Output: 2265 lm

Peak: 8826 cd

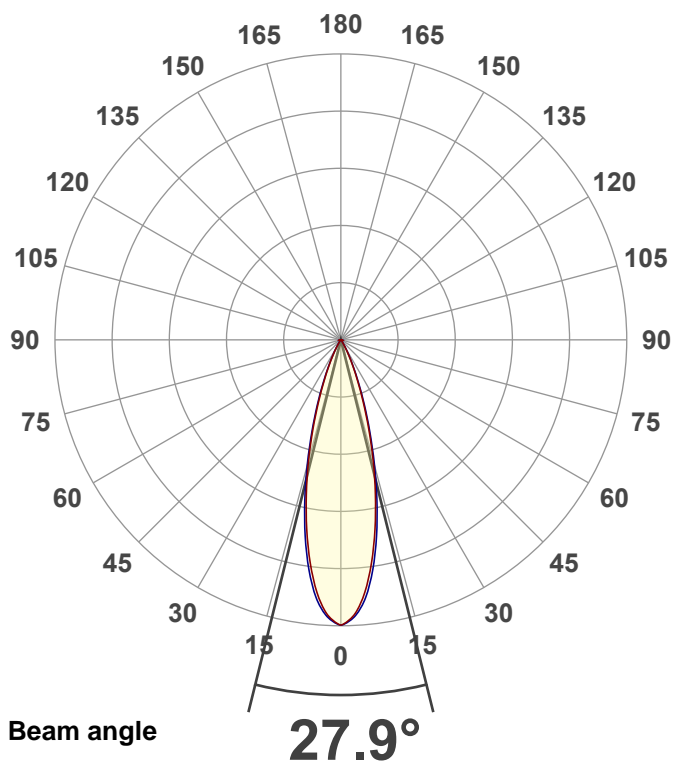
Power: 38.5 W

PF: 0.99



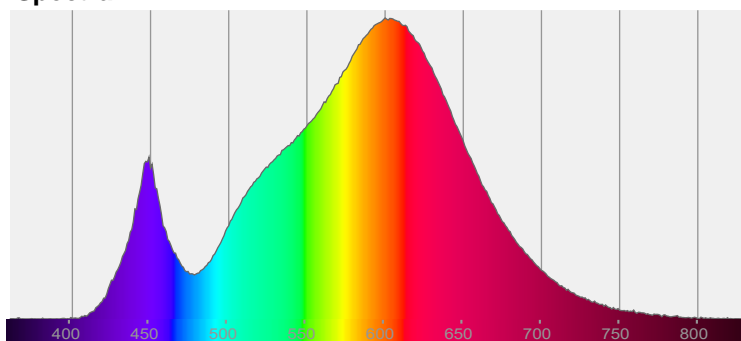
NU3-RA-SW-40LM-30K-80-35D-HCL-NL-WH

Date and time:
5/17/2022 4:11:38 PM

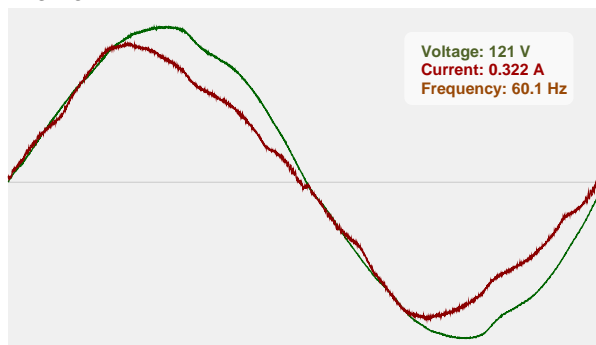


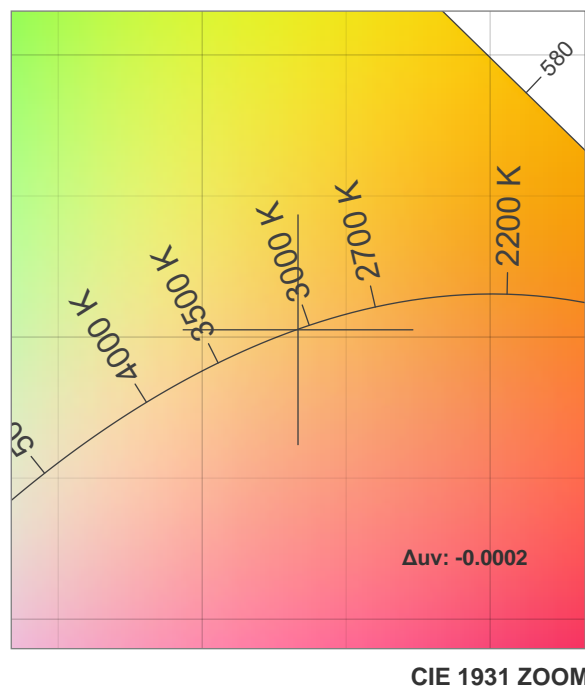
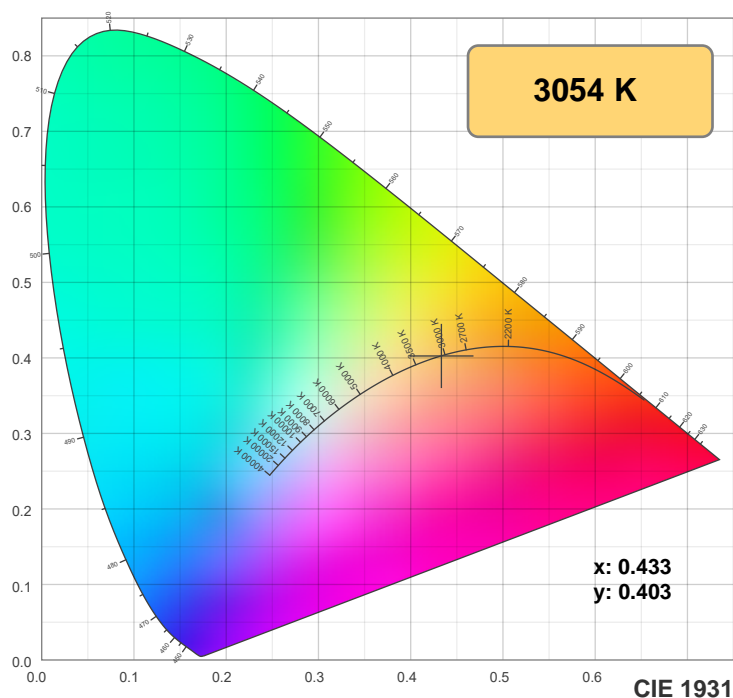
CIE 1931
x: 0.433
y: 0.403

Spectra

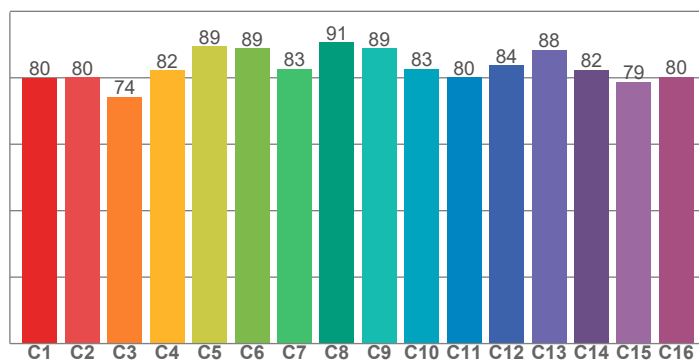


Power

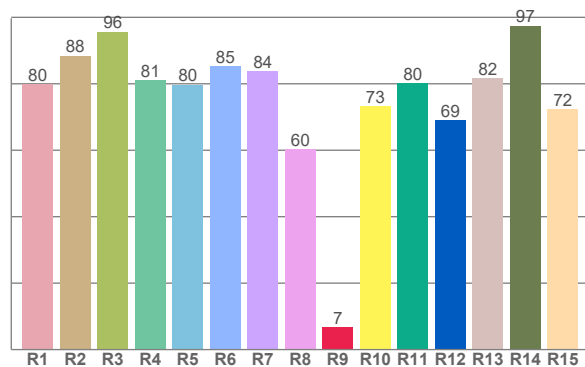




TM30: 83.3



CRI: 81.8 (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 |
|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 79.9 | 88.4 | 95.7 | 81.0 | 79.7 | 85.3 | 83.9 | 60.2 | 6.7 | 73.3 | 80.1 | 69.0 | 81.7 | 97.5 | 72.3 |

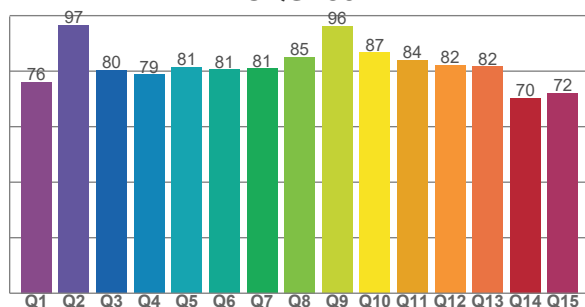
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.1 | 80.1 | 74.2 | 82.3 | 89.4 | 88.8 | 82.6 | 90.7 | 88.9 | 82.6 | 80.1 | 83.8 | 88.4 | 82.3 | 78.8 | 80.3 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 76.1 | 96.5 | 80.3 | 78.7 | 81.4 | 80.6 | 81.0 | 85.1 | 96.2 | 86.7 | 83.9 | 82.1 | 81.7 | 70.3 | 72.2 |

CQS: 80.7



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 |
| 3054 K | 81.8 | 6.7 | 83.3 | 97.9 | 80.7 | 0.433 | 0.403 | 0.249 | 0.347 | -0.0002 |

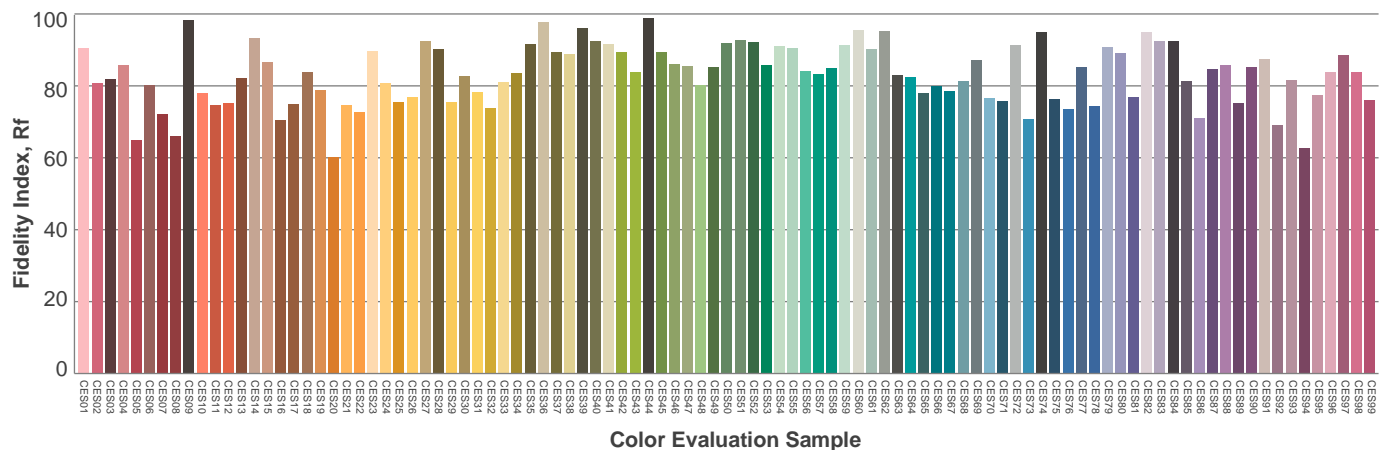
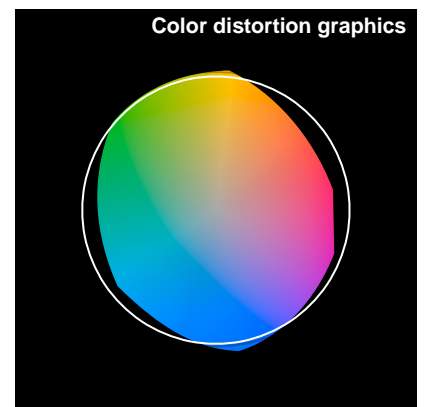
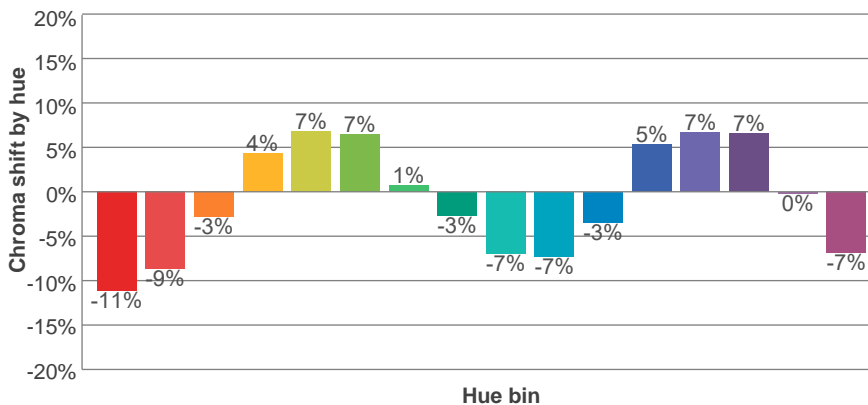
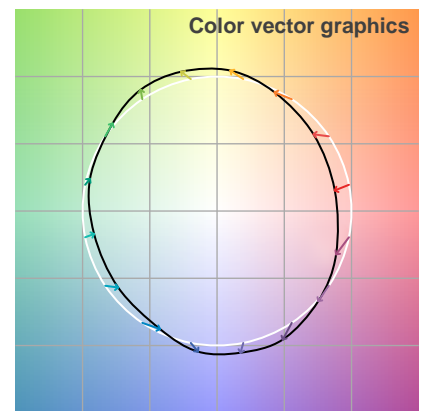
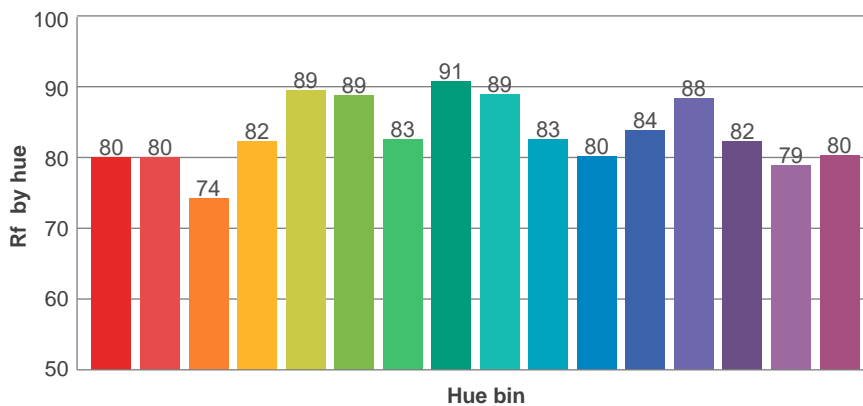
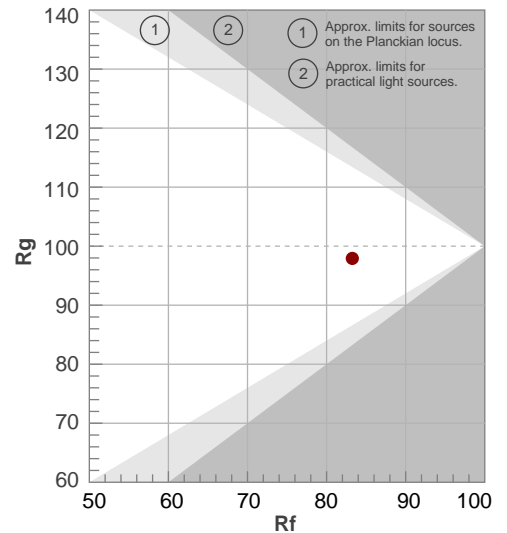
Rf 83.3

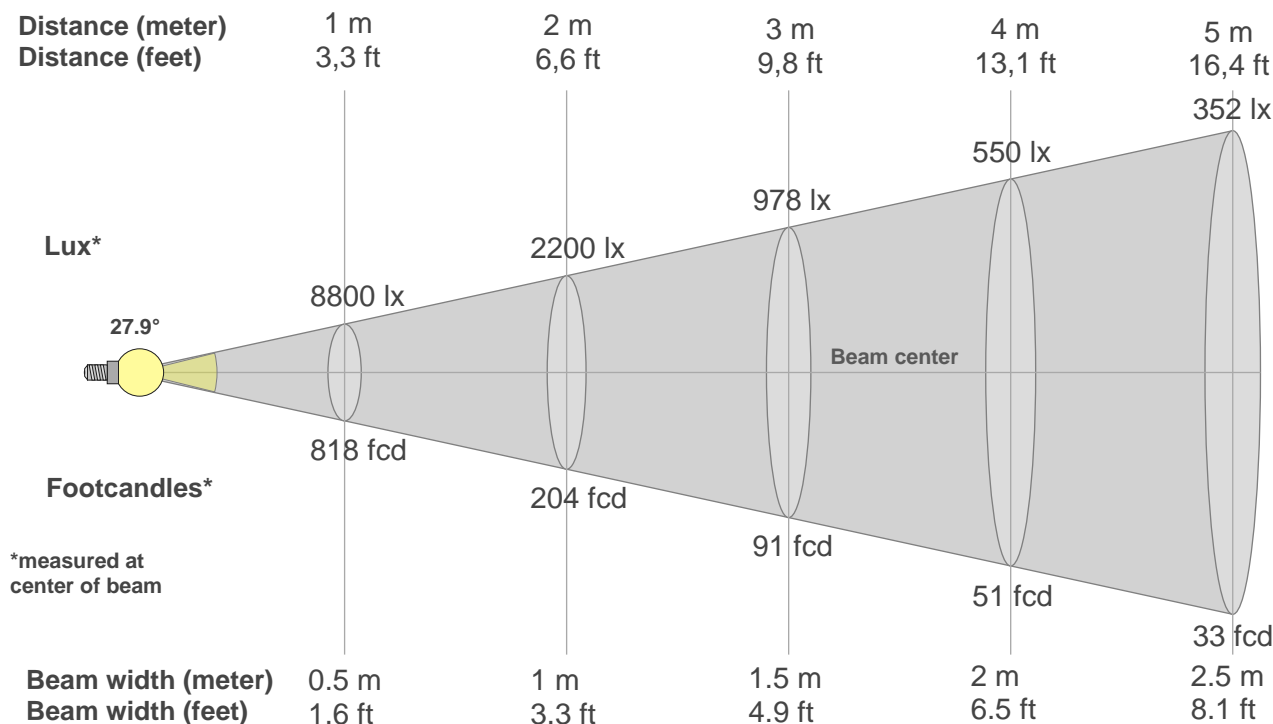
Fidelity index Rf

Rg 97.9

Gammut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 80 | -11% | -2% |
| 2 | 80 | -9% | 8% |
| 3 | 74 | -3% | 13% |
| 4 | 82 | 4% | 11% |
| 5 | 89 | 7% | 6% |
| 6 | 89 | 7% | -3% |
| 7 | 83 | 1% | -11% |
| 8 | 91 | -3% | -5% |
| 9 | 89 | -7% | -1% |
| 10 | 83 | -7% | 6% |
| 11 | 80 | -3% | 14% |
| 12 | 84 | 5% | 6% |
| 13 | 88 | 7% | -3% |
| 14 | 82 | 7% | -13% |
| 15 | 79 | 0% | -14% |
| 16 | 80 | -7% | -14% |





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 |
| 8800lx | 2200lx | 978lx | 550lx | 352lx | 244lx | 180lx | 137lx | 109lx | 88lx | 73lx | 61lx | 52lx | 45lx | 39lx | 34lx | 30lx | 27lx | 24lx | 22lx |
| 817.5fc | 204.4fc | 90.8fcd | 51.1fcd | 32.7fcd | 22.7fcd | 16.7fcd | 12.8fcd | 10.1fcd | 8.2fcd | 6.8fcd | 5.7fcd | 4.8fcd | 4.2fcd | 3.6fcd | 3.2fcd | 2.8fcd | 2.5fcd | 2.3fcd | 2fcd |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 8800 | 8619 | 8230 | 7646 | 6901 | 6056 | 5172 | 4303 | 3462 | 2676 | 1987 | 1431 | 1022 | 699 | 450 | 269 | 152 | 92 | 63 | 44 |
| 100% | 98% | 94% | 87% | 78% | 69% | 59% | 49% | 39% | 30% | 23% | 16% | 12% | 8% | 5% | 3% | 2% | 1% | 1% | 0% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 8800 | 8667 | 8350 | 7850 | 7153 | 6310 | 5404 | 4490 | 3610 | 2806 | 2113 | 1534 | 1083 | 733 | 470 | 281 | 156 | 94 | 60 | 40 |
| 100% | 98% | 95% | 89% | 81% | 72% | 61% | 51% | 41% | 32% | 24% | 17% | 12% | 8% | 5% | 3% | 2% | 1% | 1% | 0% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 8800 | 8619 | 8230 | 7646 | 6901 | 6056 | 5172 | 4303 | 3462 | 2676 | 1987 | 1431 | 1022 | 699 | 450 | 269 | 152 | 92 | 63 | 44 |
| 100% | 98% | 94% | 87% | 78% | 69% | 59% | 49% | 39% | 30% | 23% | 16% | 12% | 8% | 5% | 3% | 2% | 1% | 1% | 0% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 8800 | 8667 | 8350 | 7850 | 7153 | 6310 | 5404 | 4490 | 3610 | 2806 | 2113 | 1534 | 1083 | 733 | 470 | 281 | 156 | 94 | 60 | 40 |
| 100% | 98% | 95% | 89% | 81% | 72% | 61% | 51% | 41% | 32% | 24% | 17% | 12% | 8% | 5% | 3% | 2% | 1% | 1% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 27.9° | 49.8° | 61.5° | 99.7% | 99.5% |