

Light efficiency:

37 Lumen/Watt

Light quality:

CRI: 82.0

Color temperature:

3115 K

Output: 1133 lm

Peak: 13672 cd

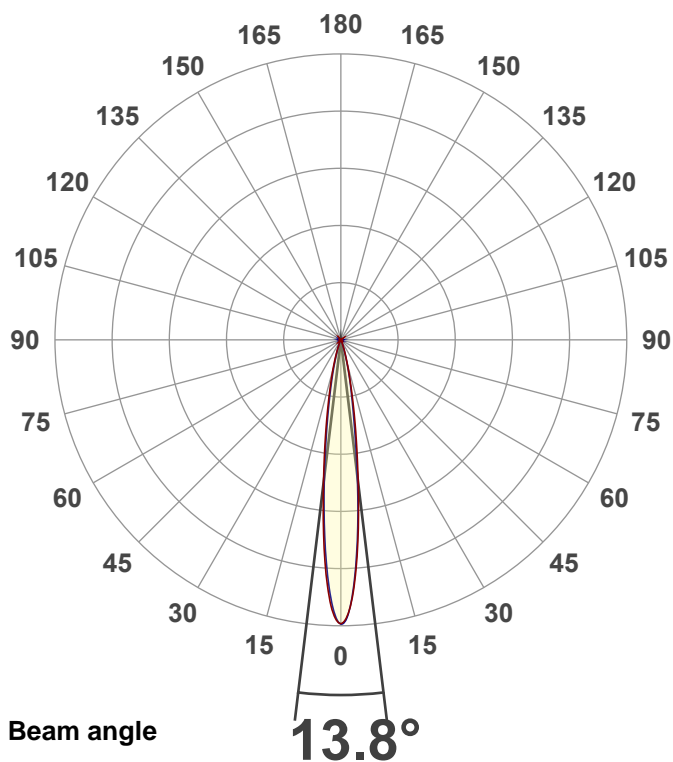
Power: 30.4 W

PF: 0.98



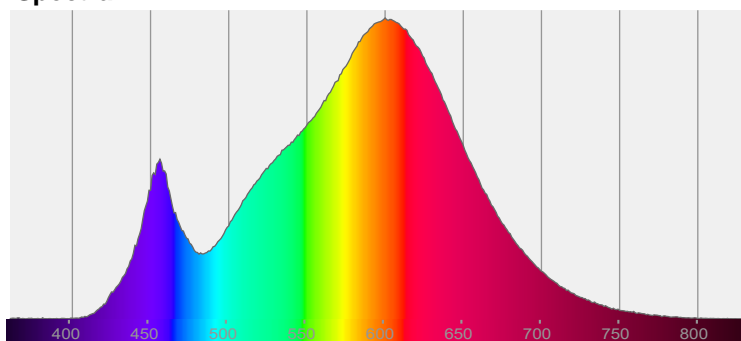
NU3-RA-SW-20LM-30K-80-15D-HCL-NL-WH

Date and time:
5/31/2022 9:42:10 AM

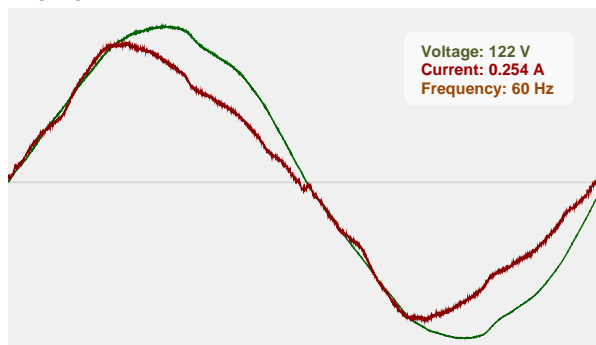


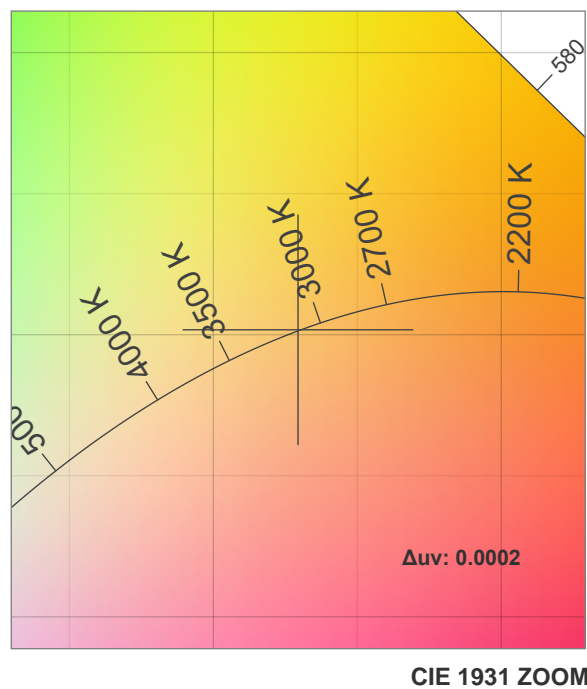
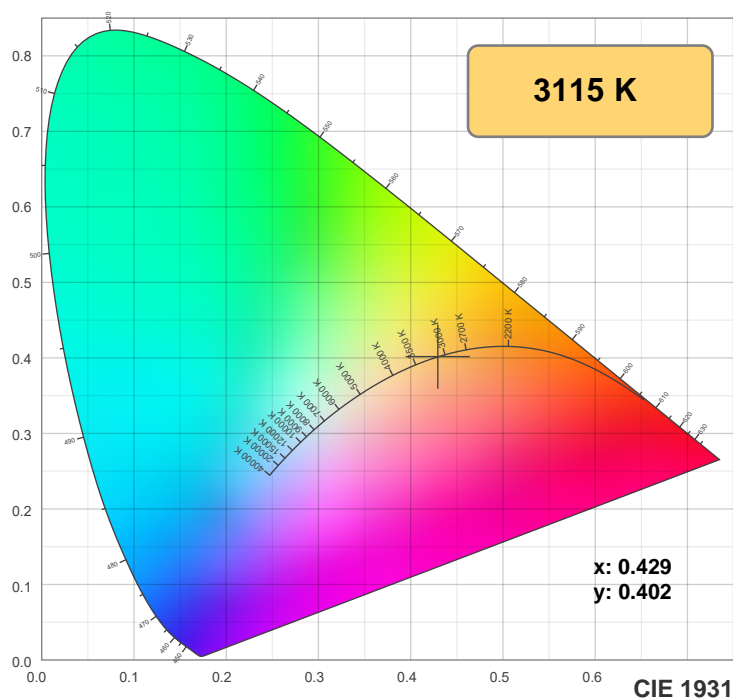
CIE 1931
x: 0.429
y: 0.402

Spectra

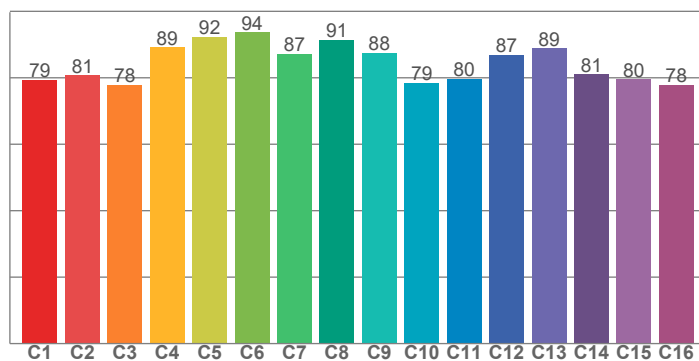


Power

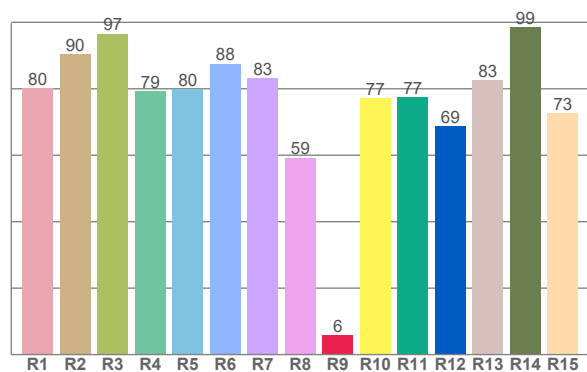




TM30: 84.4



CRI: 82.0 (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 |
|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 80.2 | 90.3 | 96.6 | 79.4 | 79.9 | 87.5 | 83.1 | 59.2 | 5.9 | 77.1 | 77.5 | 68.7 | 82.6 | 98.6 | 72.6 |

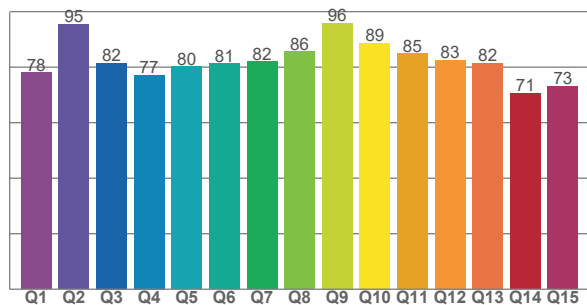
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.3 | 80.8 | 77.9 | 89.1 | 92.3 | 93.7 | 87.2 | 91.3 | 87.5 | 78.5 | 79.8 | 87.0 | 88.8 | 81.1 | 79.6 | 78.0 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78.1 | 95.4 | 81.5 | 77.1 | 80.2 | 81.4 | 82.1 | 85.7 | 96.0 | 88.7 | 84.8 | 82.5 | 81.6 | 70.6 | 73.1 |

CQS: 81.2



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 |
| 3115 K | 82.0 | 5.9 | 84.4 | 95.1 | 81.2 | 0.429 | 0.402 | 0.247 | 0.346 | 0.0002 |

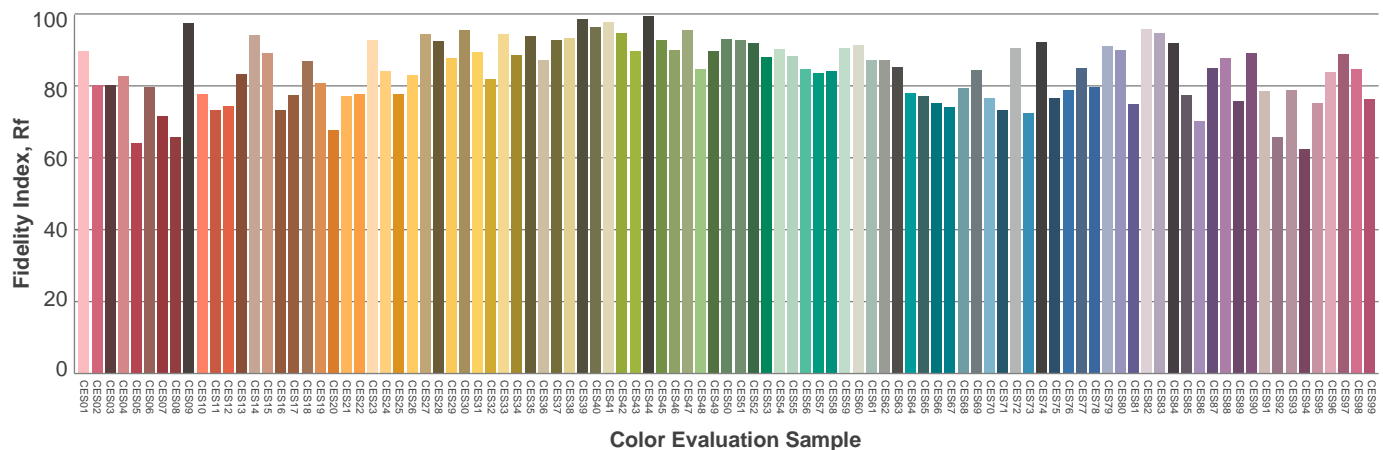
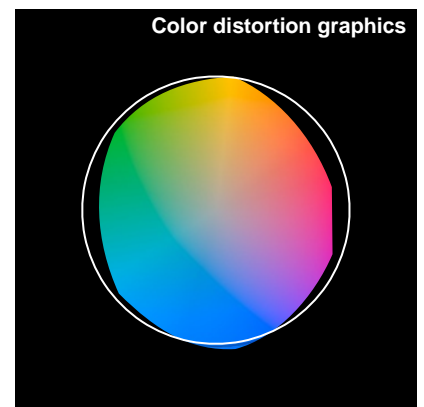
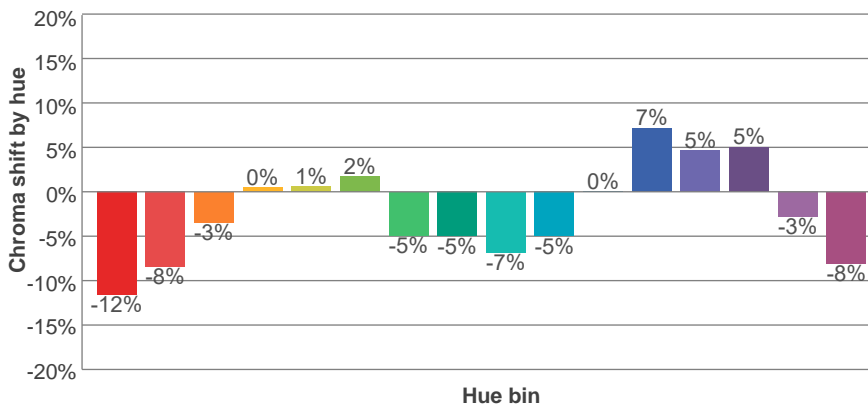
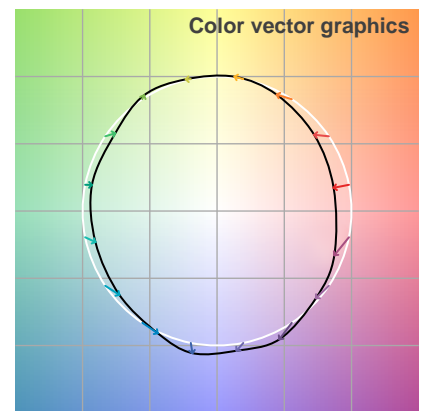
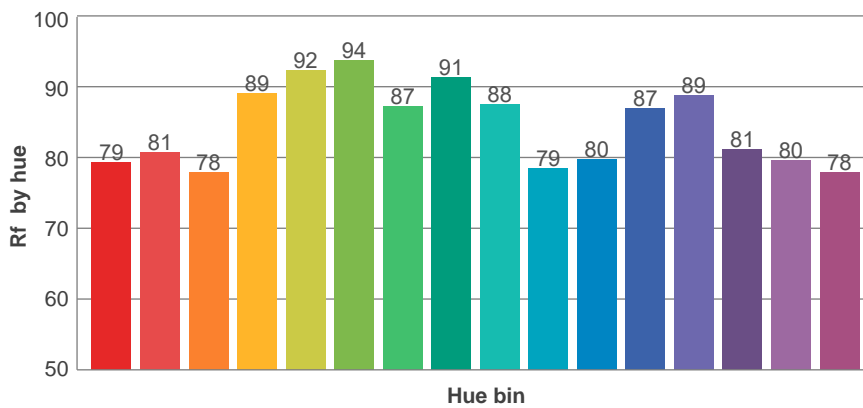
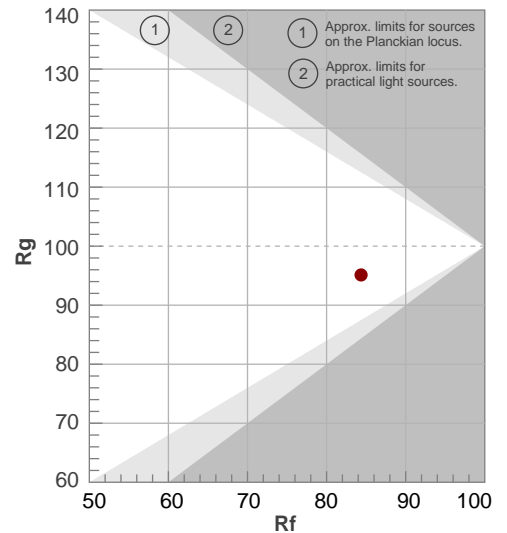
Rf 84.4

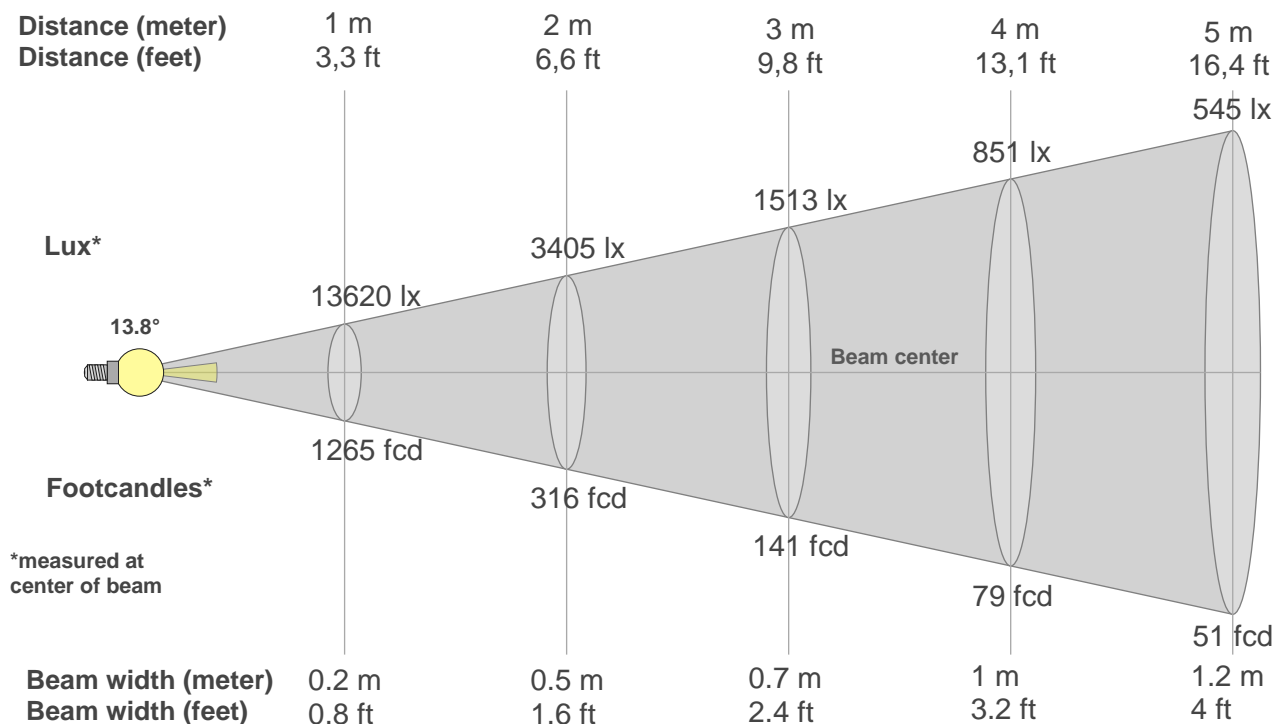
Fidelity index Rf

Rg 95.1

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 79 | -12% | 0% |
| 2 | 81 | -8% | 7% |
| 3 | 78 | -3% | 11% |
| 4 | 89 | 0% | 7% |
| 5 | 92 | 1% | 4% |
| 6 | 94 | 2% | -3% |
| 7 | 87 | -5% | -6% |
| 8 | 91 | -5% | -1% |
| 9 | 88 | -7% | 5% |
| 10 | 79 | -5% | 11% |
| 11 | 80 | 0% | 14% |
| 12 | 87 | 7% | 3% |
| 13 | 89 | 5% | -6% |
| 14 | 81 | 5% | -14% |
| 15 | 80 | -3% | -13% |
| 16 | 78 | -8% | -15% |





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 |
| 13620lx | 3405lx | 1513lx | 851lx | 545lx | 378lx | 278lx | 213lx | 168lx | 136lx | 113lx | 95lx | 81lx | 69lx | 61lx | 53lx | 47lx | 42lx | 38lx | 34lx |
| 1265.3fcd | 316.3fcd | 140.6fcd | 79.1fcd | 50.6fcd | 35.1fcd | 25.8fcd | 19.8fcd | 15.6fcd | 12.7fcd | 10.5fcd | 8.8fcd | 7.5fcd | 6.5fcd | 5.6fcd | 4.9fcd | 4.4fcd | 3.9fcd | 3.5fcd | 3.2fcd |

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° |
|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 13.6K | 13.4K | 12.8K | 11.9K | 10.8K | 9.5K | 8.1K | 6.8K | 5.7K | 4.7K | 3.8K | 3.1K | 2.4K | 1.9K | 1.5K | 1.2K | 1.0K | 0.8K | 0.6K | 0.5K |
| 100% | 98% | 94% | 88% | 79% | 70% | 60% | 50% | 42% | 34% | 28% | 22% | 18% | 14% | 11% | 9% | 7% | 6% | 4% | 3% |

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° |
|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 13.6K | 13.4K | 12.8K | 11.8K | 10.6K | 9.2K | 7.8K | 6.4K | 5.2K | 4.1K | 3.3K | 2.7K | 2.2K | 1.8K | 1.4K | 1.1K | 0.8K | 0.6K | 0.4K | 0.3K |
| 100% | 99% | 94% | 87% | 78% | 68% | 57% | 47% | 38% | 30% | 24% | 20% | 16% | 13% | 10% | 8% | 6% | 4% | 3% | 2% |

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° |
|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 13.6K | 13.4K | 12.9K | 12.0K | 10.8K | 9.5K | 8.1K | 6.8K | 5.7K | 4.8K | 3.9K | 3.2K | 2.7K | 2.2K | 1.8K | 1.5K | 1.2K | 0.9K | 0.7K | 0.5K |
| 100% | 99% | 95% | 88% | 79% | 70% | 60% | 50% | 42% | 35% | 29% | 24% | 20% | 16% | 13% | 11% | 9% | 7% | 5% | 4% |

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° |
|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 13.6K | 13.3K | 12.6K | 11.6K | 10.4K | 9.1K | 7.7K | 6.5K | 5.3K | 4.3K | 3.5K | 2.9K | 2.3K | 1.9K | 1.5K | 1.2K | 0.9K | 0.7K | 0.6K | 0.5K |
| 100% | 98% | 93% | 85% | 76% | 67% | 57% | 48% | 39% | 32% | 26% | 21% | 17% | 14% | 11% | 9% | 7% | 5% | 4% | 3% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 13.8° | 29.3° | 39.9° | 99.8% | 99.7% |