

Light efficiency:

77 Lumen/Watt

Light quality:

CRI: 84.2

Color temperature:

3046 K

Output: 2577 lm

Peak: 21403 cd

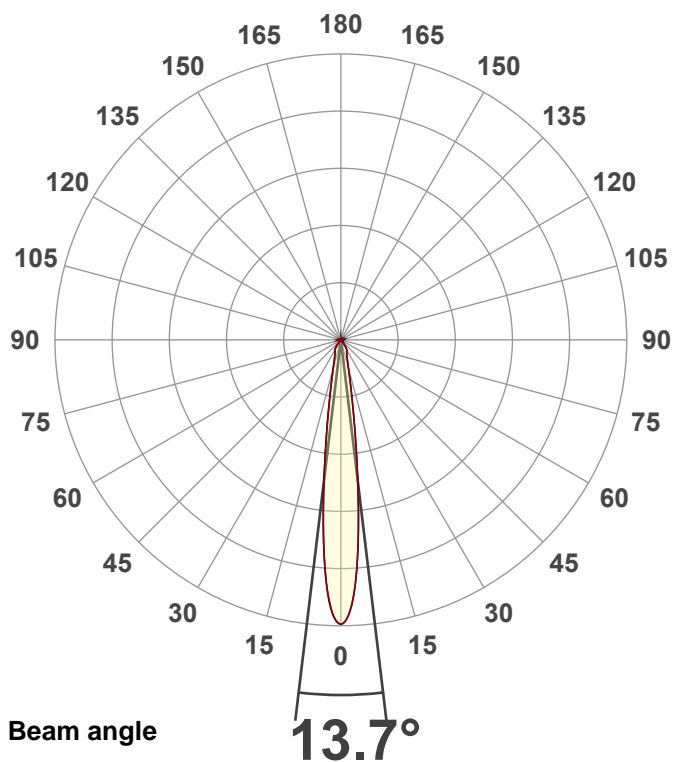
Power: 33.6 W

PF: 0.98



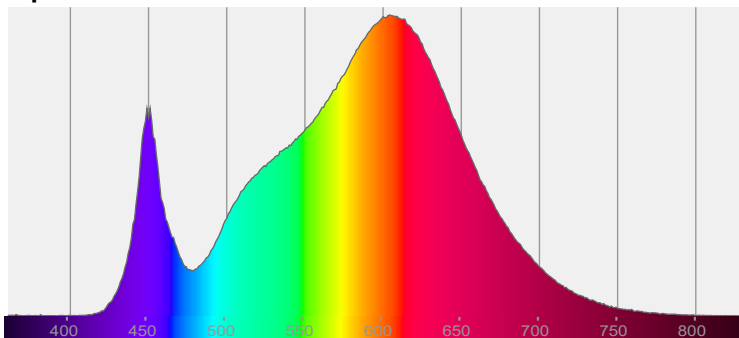
NU4-RD-TW-30LM-2750-80-15D-CL-WH-WH

Date and time:
3/31/2023 4:16:51 PM

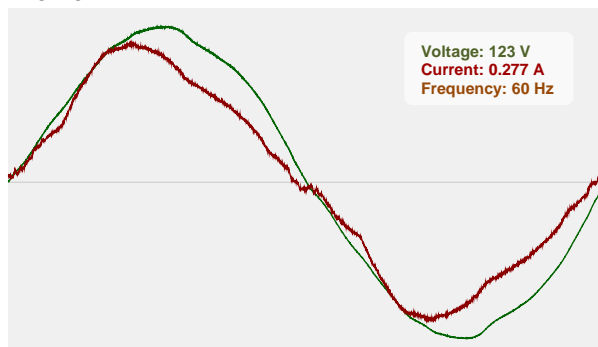


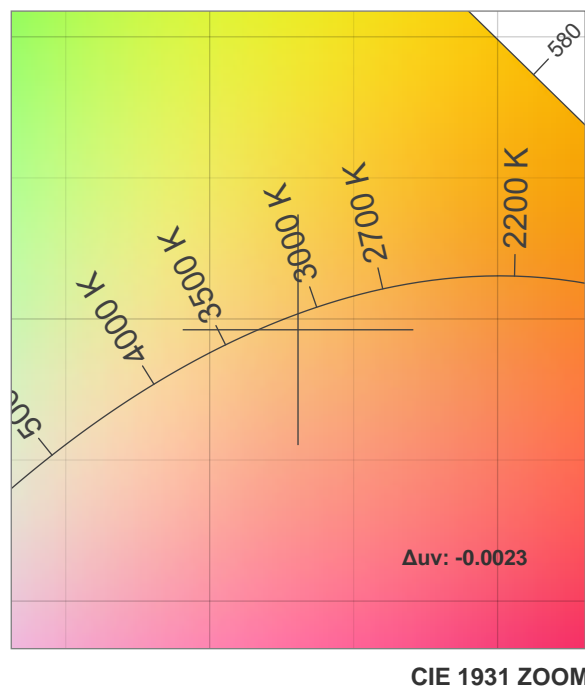
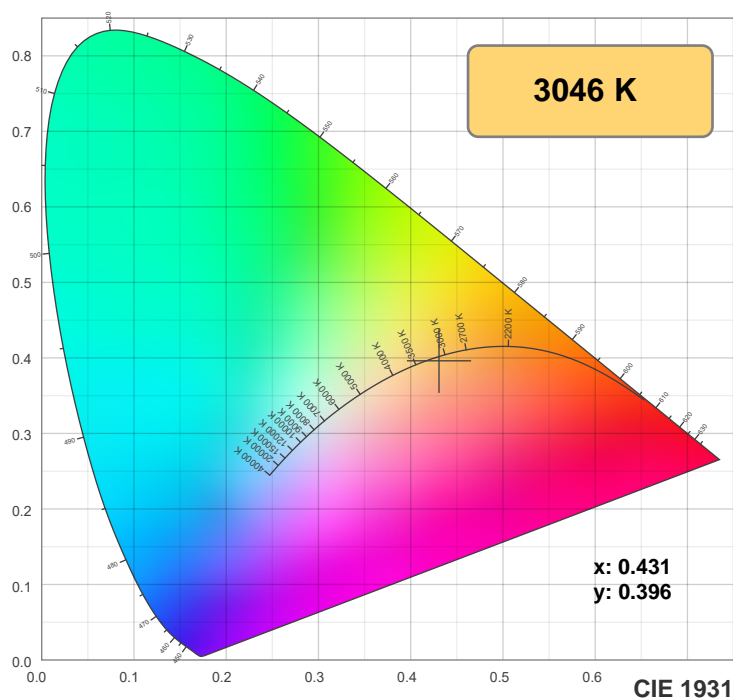
CIE 1931
x: 0.431
y: 0.396

Spectra

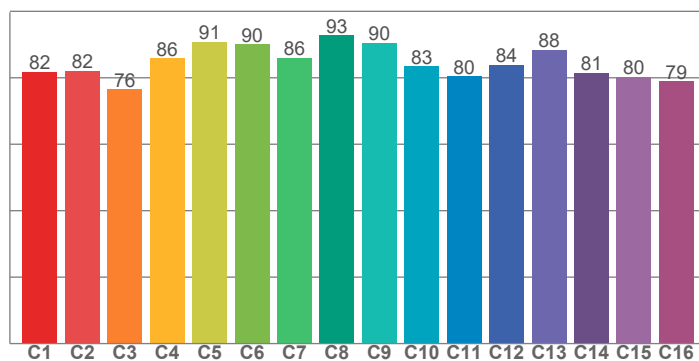


Power

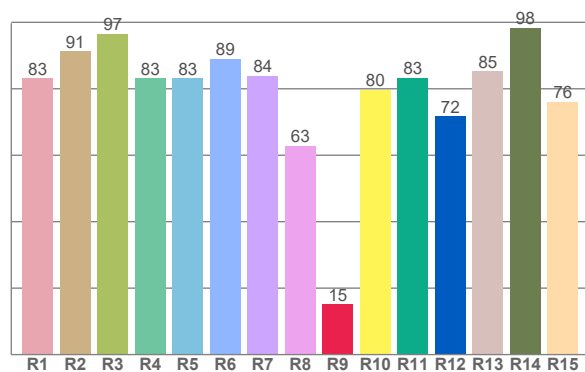




TM30: 84.6



CRI: 84.2 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 83.2 | 91.3 | 96.5 | 83.3 | 83.2 | 89.1 | 83.9 | 62.9 | 15.2 | 79.7 | 83.3 | 71.8 | 85.2 | 98.4 | 76.1 |

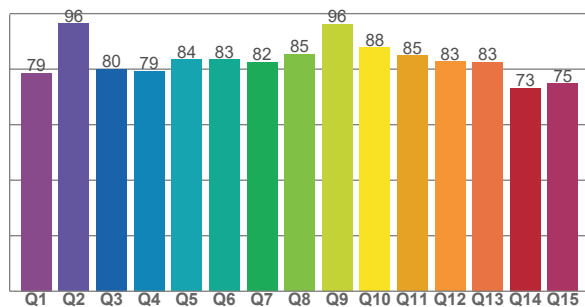
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 81.8 | 82.1 | 76.5 | 85.9 | 90.8 | 90.0 | 86.0 | 92.8 | 90.5 | 83.4 | 80.4 | 83.9 | 88.3 | 81.5 | 80.3 | 78.9 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78.6 | 96.4 | 80.1 | 79.3 | 83.5 | 83.5 | 82.4 | 85.3 | 96.3 | 87.8 | 84.9 | 82.7 | 82.6 | 73.2 | 74.8 |

CQS: 82.2



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 |
| 3046 K | 84.2 | 15.2 | 84.6 | 98.7 | 82.2 | 0.431 | 0.396 | 0.250 | 0.345 | -0.0023 |

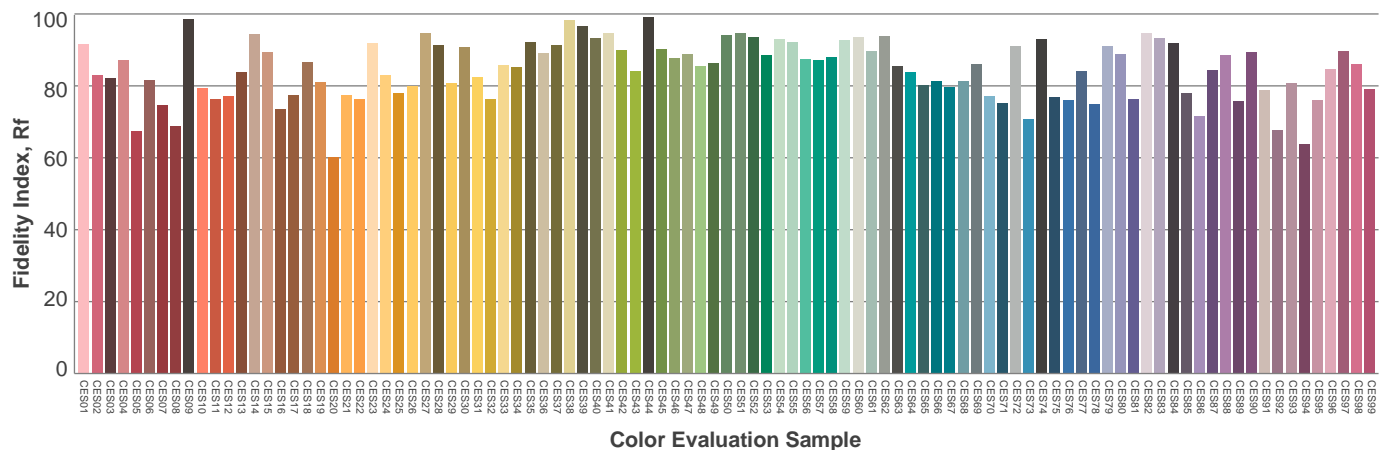
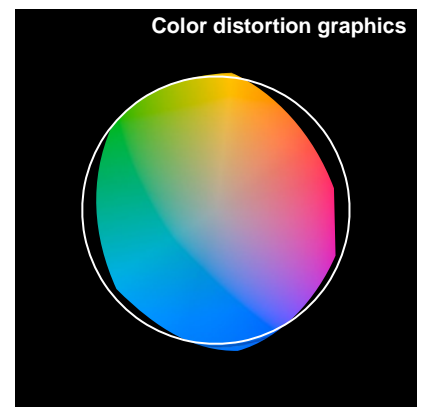
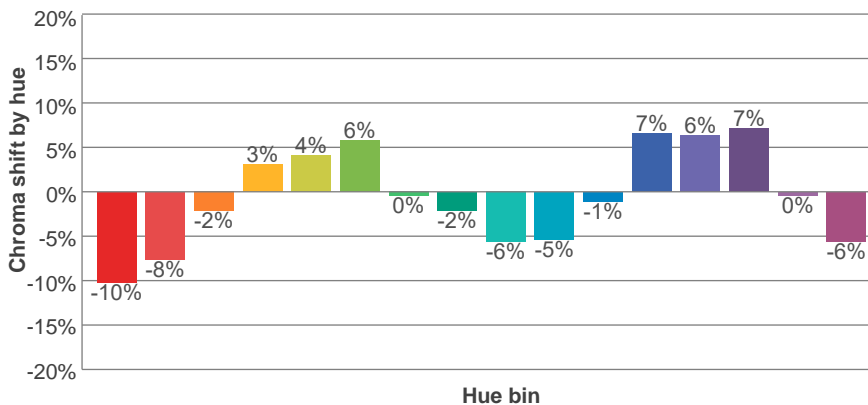
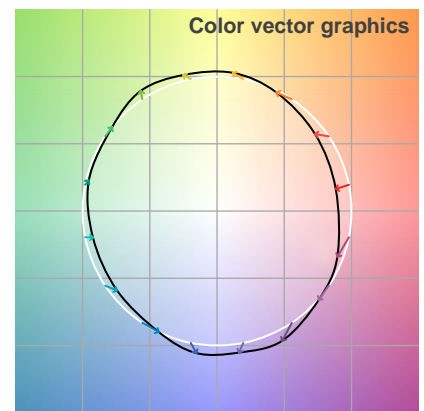
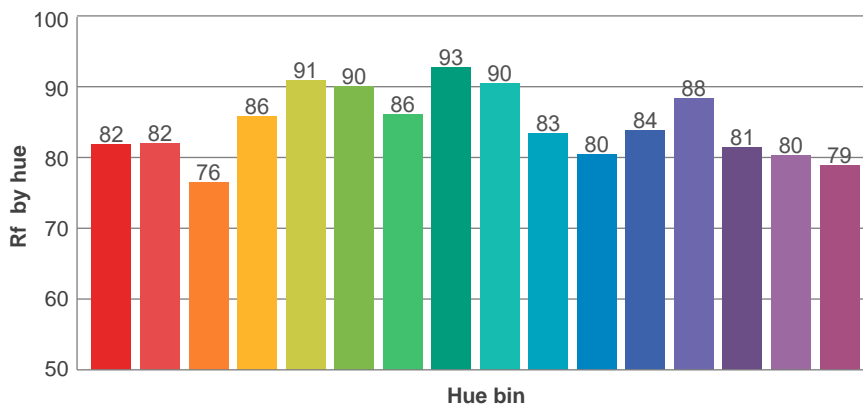
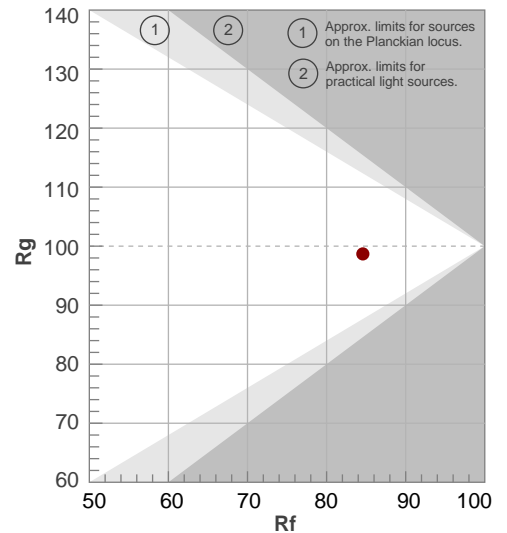
Rf 84.6

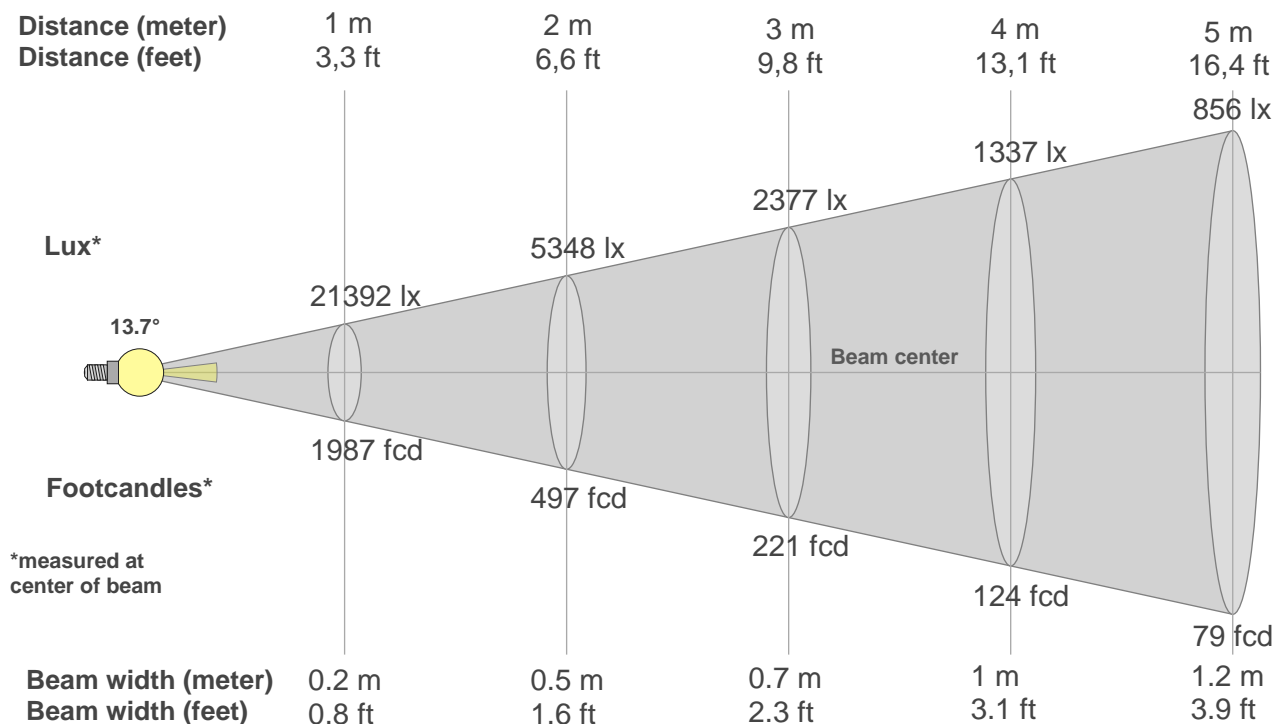
Fidelity index Rf

Rg 98.7

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 82 | -10% | -1% |
| 2 | 82 | -8% | 7% |
| 3 | 76 | -2% | 12% |
| 4 | 86 | 3% | 9% |
| 5 | 91 | 4% | 5% |
| 6 | 90 | 6% | -2% |
| 7 | 86 | 0% | -8% |
| 8 | 93 | -2% | -4% |
| 9 | 90 | -6% | 1% |
| 10 | 83 | -5% | 8% |
| 11 | 80 | -1% | 14% |
| 12 | 84 | 7% | 6% |
| 13 | 88 | 6% | -5% |
| 14 | 81 | 7% | -13% |
| 15 | 80 | 0% | -13% |
| 16 | 79 | -6% | -16% |





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 |
| 21392lx | 5348lx | 2377lx | 1337lx | 856lx | 594lx | 437lx | 334lx | 264lx | 214lx | 177lx | 149lx | 127lx | 109lx | 95lx | 84lx | 74lx | 66lx | 59lx | 53lx |
| 1987.4fcd | 496.8fcd | 220.8fcd | 124.2fcd | 79.5fcd | 55.2fcd | 40.6fcd | 31.1fcd | 24.5fcd | 19.9fcd | 16.4fcd | 13.8fcd | 11.8fcd | 10.1fcd | 8.8fcd | 7.8fcd | 6.9fcd | 6.1fcd | 5.5fcd | 5fcd |

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° |
|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 21.4K | 21.1K | 20.4K | 19.1K | 17.2K | 15.0K | 12.6K | 10.3K | 8.3K | 6.6K | 5.3K | 4.3K | 3.6K | 3.0K | 2.5K | 2.2K | 2.0K | 1.8K | 1.6K | 1.5K |
| 100% | 99% | 95% | 89% | 80% | 70% | 59% | 48% | 39% | 31% | 25% | 20% | 17% | 14% | 12% | 10% | 9% | 8% | 7% | 7% |

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° |
|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 21.4K | 21.1K | 20.3K | 19.0K | 17.2K | 15.0K | 12.6K | 10.3K | 8.3K | 6.6K | 5.3K | 4.3K | 3.6K | 3.0K | 2.5K | 2.2K | 1.9K | 1.7K | 1.6K | 1.5K |
| 100% | 99% | 95% | 89% | 81% | 70% | 59% | 48% | 39% | 31% | 25% | 20% | 17% | 14% | 12% | 10% | 9% | 8% | 7% | 7% |

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° |
|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 21.4K | 21.1K | 20.3K | 19.0K | 17.2K | 14.9K | 12.5K | 10.3K | 8.3K | 6.6K | 5.3K | 4.3K | 3.6K | 3.0K | 2.6K | 2.2K | 2.0K | 1.8K | 1.6K | 1.5K |
| 100% | 99% | 95% | 89% | 80% | 70% | 59% | 48% | 39% | 31% | 25% | 20% | 17% | 14% | 12% | 10% | 9% | 8% | 8% | 7% |

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° |
|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 21.4K | 21.1K | 20.4K | 19.1K | 17.2K | 15.0K | 12.6K | 10.3K | 8.3K | 6.7K | 5.3K | 4.3K | 3.6K | 3.0K | 2.6K | 2.2K | 2.0K | 1.7K | 1.6K | 1.5K |
| 100% | 99% | 95% | 89% | 81% | 70% | 59% | 48% | 39% | 31% | 25% | 20% | 17% | 14% | 12% | 10% | 9% | 8% | 7% | 7% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 13.7° | 30.5° | 70.2° | 99.9% | 99.8% |