

Light efficiency:

80 Lumen/Watt

Light quality:

CRI: 84.2

Color temperature:

3053 K

Output: 2708 lm

Peak: 2554 cd

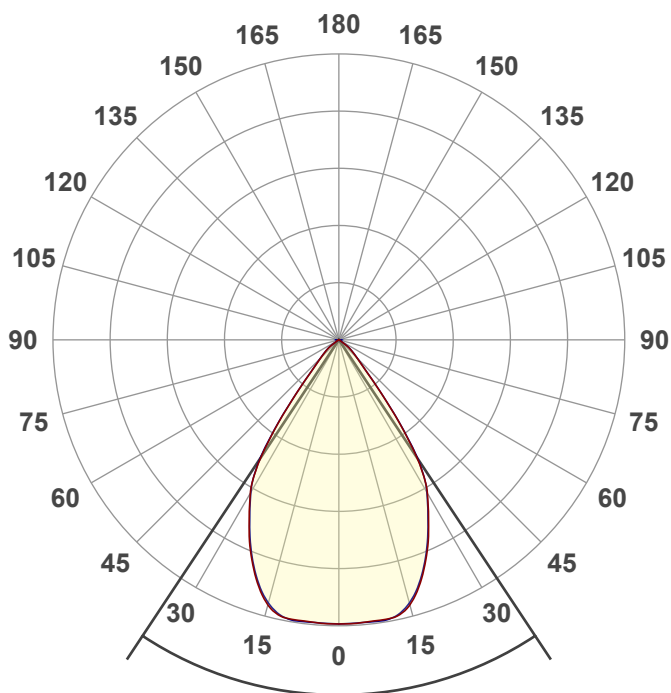
Power: 33.8 W

PF: 0.98



NU4-RD-TW-30LM-2750-80-65D-NL-WH-WH

Date and time:
3/31/2023 3:23:06 PM



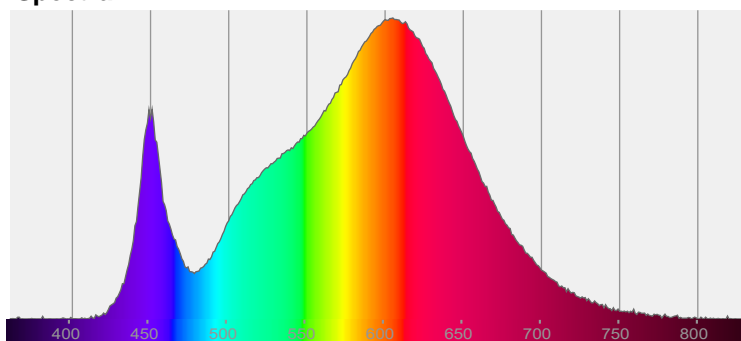
Beam angle

67.1°

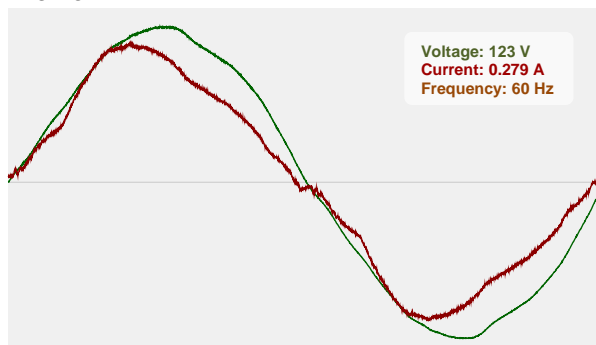


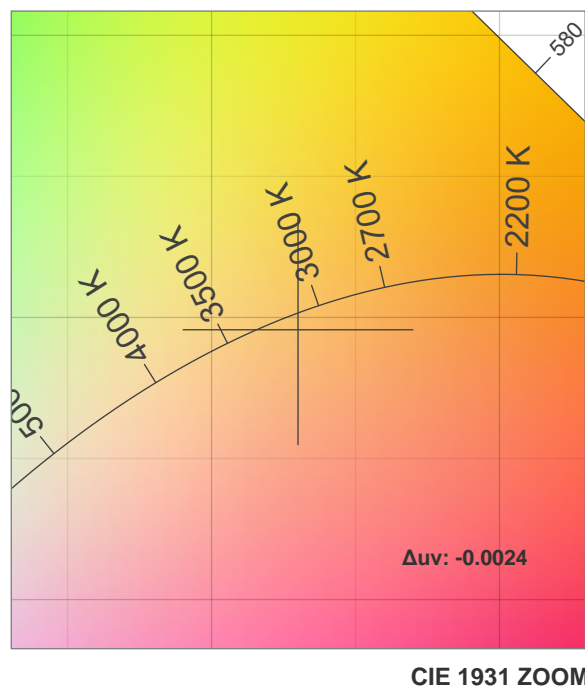
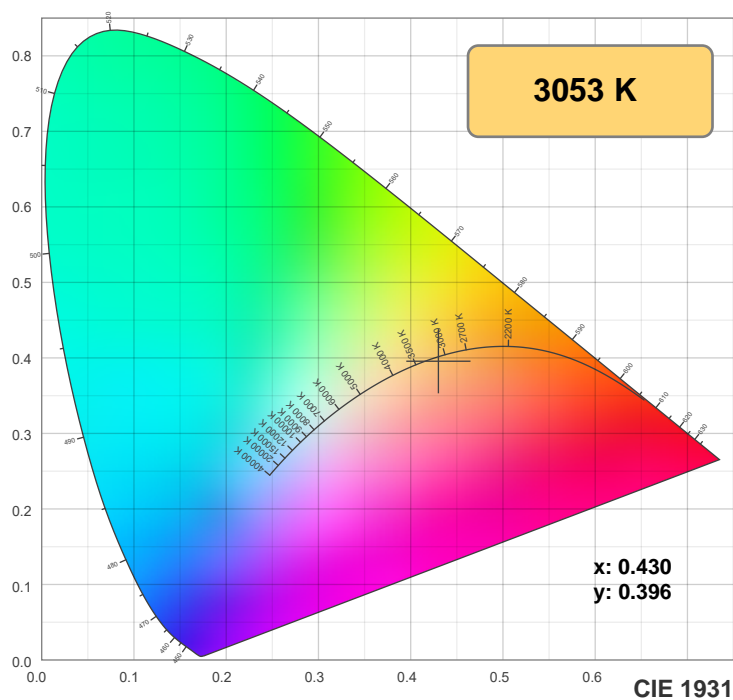
CIE 1931
x: 0.430
y: 0.396

Spectra

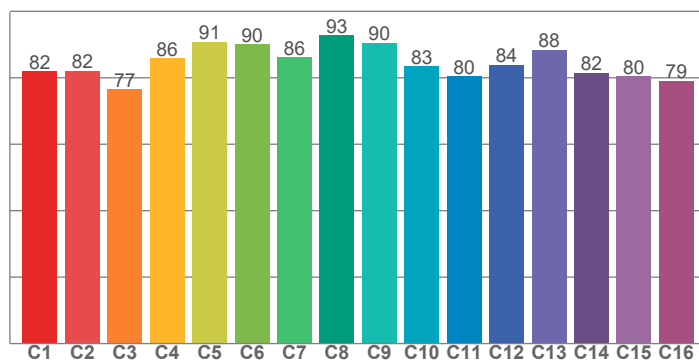


Power

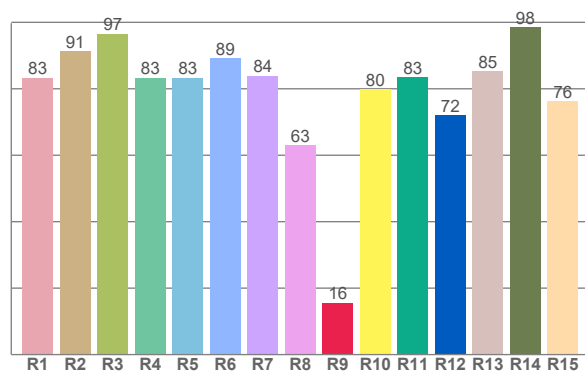




TM30: 84.6



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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 83.3 | 91.3 | 96.5 | 83.3 | 83.3 | 89.2 | 83.9 | 63.0 | 15.6 | 79.9 | 83.4 | 72.0 | 85.3 | 98.4 | 76.2 |

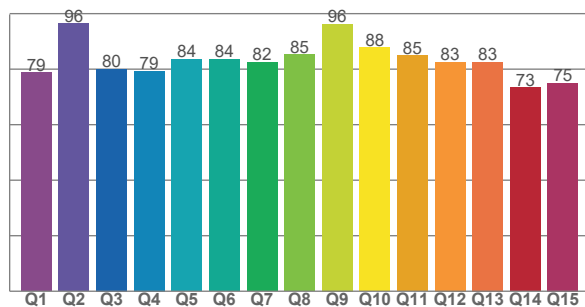
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 81.9 | 82.1 | 76.5 | 85.9 | 90.9 | 90.0 | 86.1 | 92.8 | 90.5 | 83.4 | 80.5 | 83.9 | 88.4 | 81.6 | 80.4 | 79.0 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78.8 | 96.5 | 80.1 | 79.3 | 83.6 | 83.5 | 82.5 | 85.3 | 96.3 | 87.8 | 84.8 | 82.7 | 82.5 | 73.3 | 74.9 |

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 |
| 3053 K | 84.2 | 15.6 | 84.6 | 98.7 | 82.2 | 0.430 | 0.396 | 0.250 | 0.345 | -0.0024 |

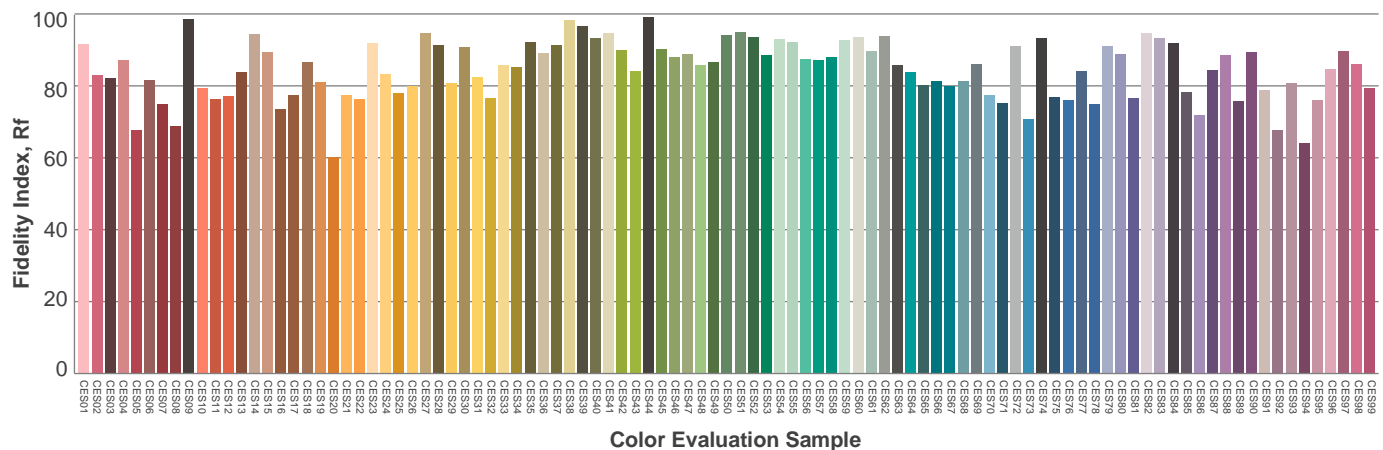
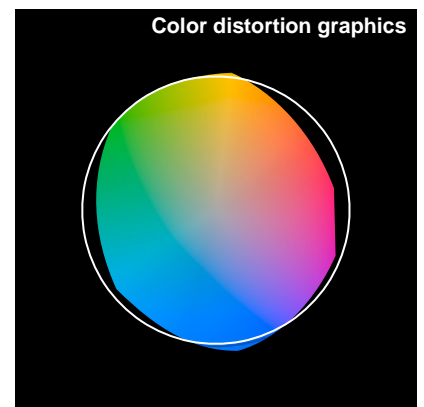
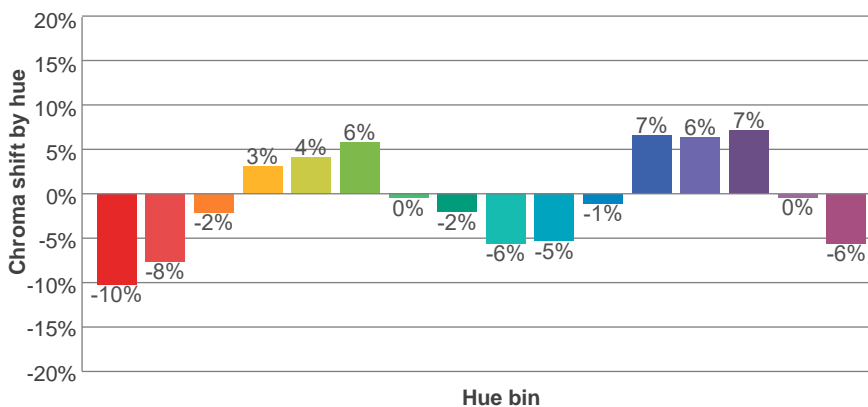
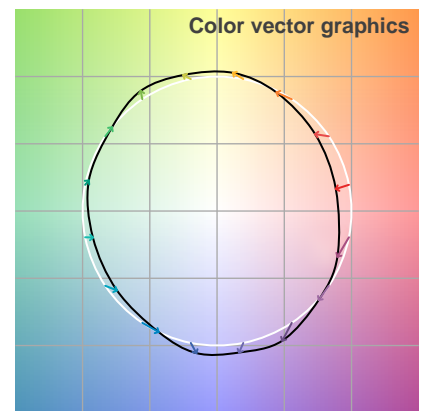
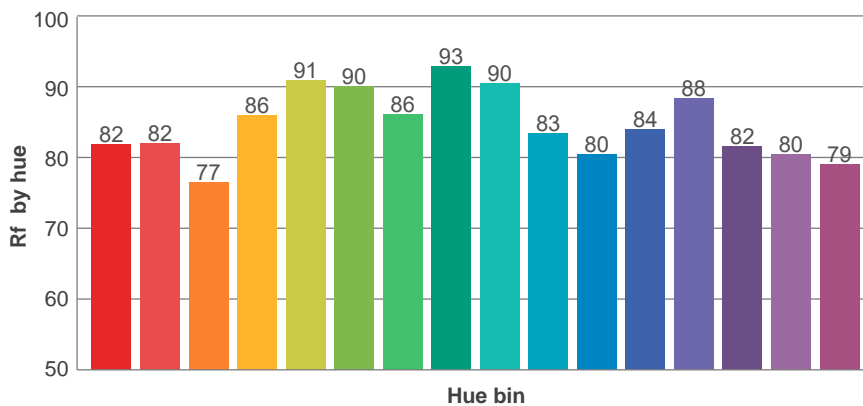
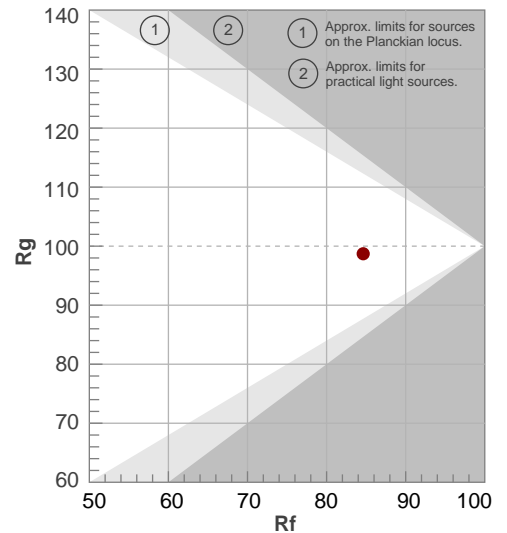
Rf 84.6

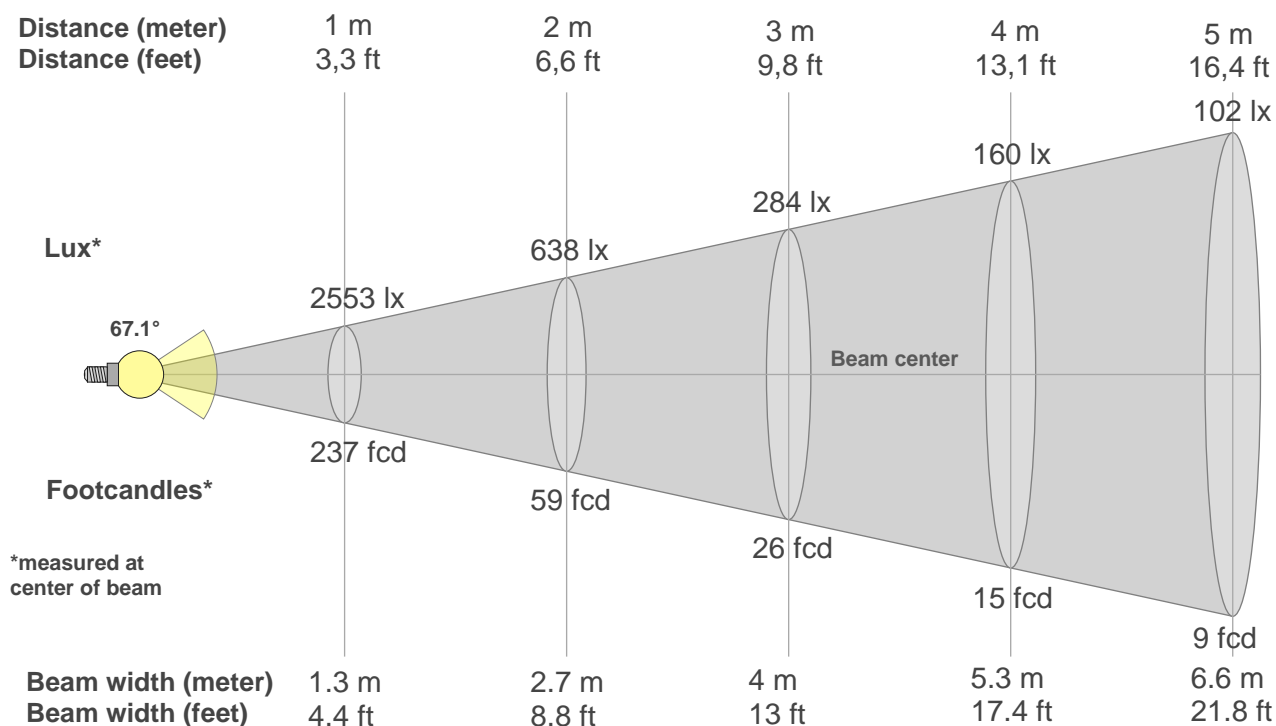
Fidelity index Rf

Rg 98.7

Gammut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 82 | -10% | -1% |
| 2 | 82 | -8% | 7% |
| 3 | 77 | -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% | -4% |
| 14 | 82 | 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 |
| 2553lx | 638lx | 284lx | 160lx | 102lx | 71lx | 52lx | 40lx | 32lx | 26lx | 21lx | 18lx | 15lx | 13lx | 11lx | 10lx | 9lx | 8lx | 7lx | 6lx |
| 237.2fcd | 59.3fcd | 26.4fcd | 14.8fcd | 9.5fcd | 6.6fcd | 4.8fcd | 3.7fcd | 2.9fcd | 2.4fcd | 2fcd | 1.6fcd | 1.4fcd | 1.2fcd | 1.1fcd | 0.9fcd | 0.8fcd | 0.7fcd | 0.7fcd | 0.6fcd |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| 2553 | 2551 | 2548 | 2545 | 2544 | 2543 | 2533 | 2493 | 2421 | 2327 | 2217 | 2098 | 1974 | 1839 | 1711 | 1584 | 1425 | 1209 | 937 | 673 |
| 100% | 100% | 100% | 100% | 100% | 100% | 99% | 98% | 95% | 91% | 87% | 82% | 77% | 72% | 67% | 62% | 56% | 47% | 37% | 26% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| 2553 | 2549 | 2547 | 2548 | 2550 | 2548 | 2526 | 2475 | 2404 | 2312 | 2204 | 2085 | 1958 | 1826 | 1700 | 1575 | 1429 | 1227 | 945 | 675 |
| 100% | 100% | 100% | 100% | 100% | 100% | 99% | 97% | 94% | 91% | 86% | 82% | 77% | 72% | 67% | 62% | 56% | 48% | 37% | 26% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| 2553 | 2551 | 2548 | 2545 | 2544 | 2543 | 2533 | 2493 | 2421 | 2327 | 2217 | 2098 | 1974 | 1839 | 1711 | 1584 | 1425 | 1209 | 937 | 673 |
| 100% | 100% | 100% | 100% | 100% | 100% | 99% | 98% | 95% | 91% | 87% | 82% | 77% | 72% | 67% | 62% | 56% | 47% | 37% | 26% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| 2553 | 2549 | 2547 | 2548 | 2550 | 2548 | 2526 | 2475 | 2404 | 2312 | 2204 | 2085 | 1958 | 1826 | 1700 | 1575 | 1429 | 1227 | 945 | 675 |
| 100% | 100% | 100% | 100% | 100% | 100% | 99% | 97% | 94% | 91% | 86% | 82% | 77% | 72% | 67% | 62% | 56% | 48% | 37% | 26% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 67.1° | 88.6° | 108.6° | 99.3% | 94.7% |