

Light efficiency:

97 Lumen/Watt

Light quality:

CRI: 91.5

Color temperature:

3131 K

Output: 1636 lm

Peak: 806 cd

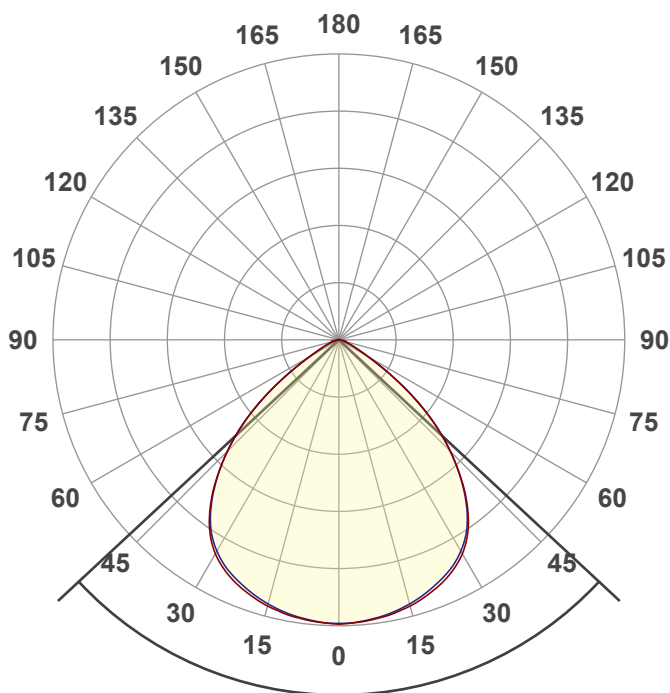
Power: 17.0 W

PF: 0.96



NU3-RD-SW-20LM-30K-90-25D-WDL-WH-WH

Date and time:
9/15/2025 9:22:00 AM



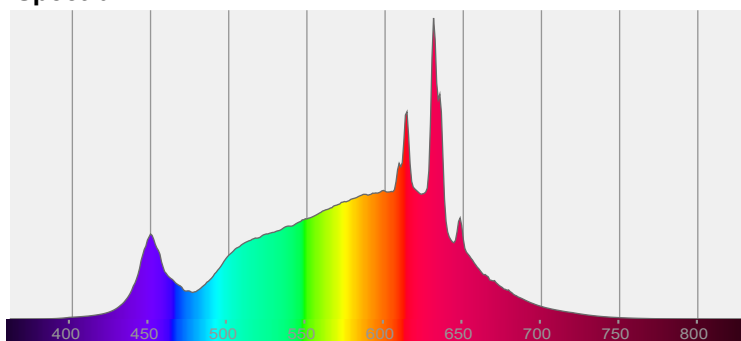
Beam angle

94.2°

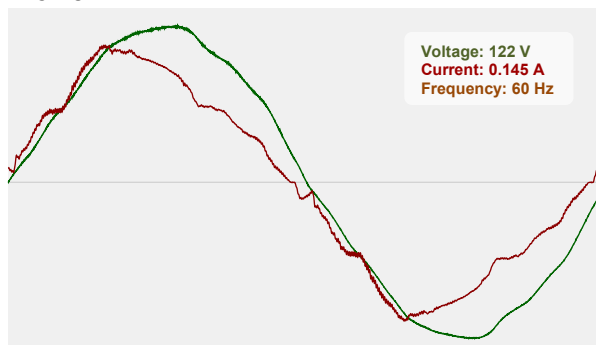


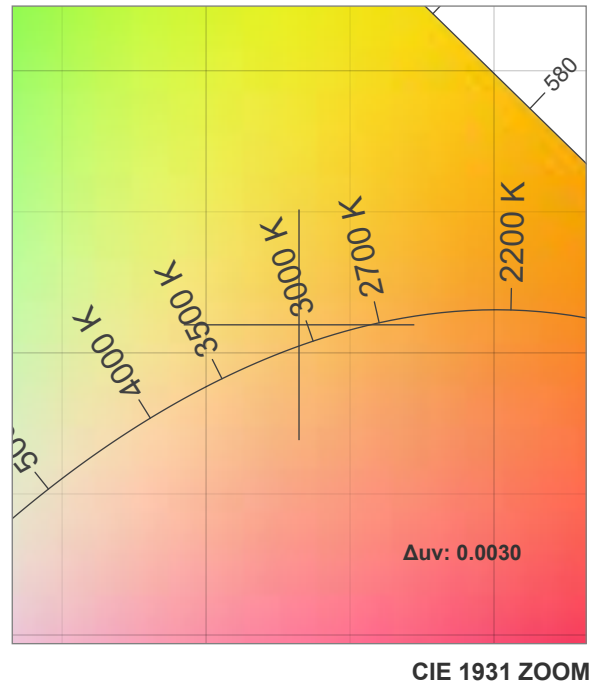
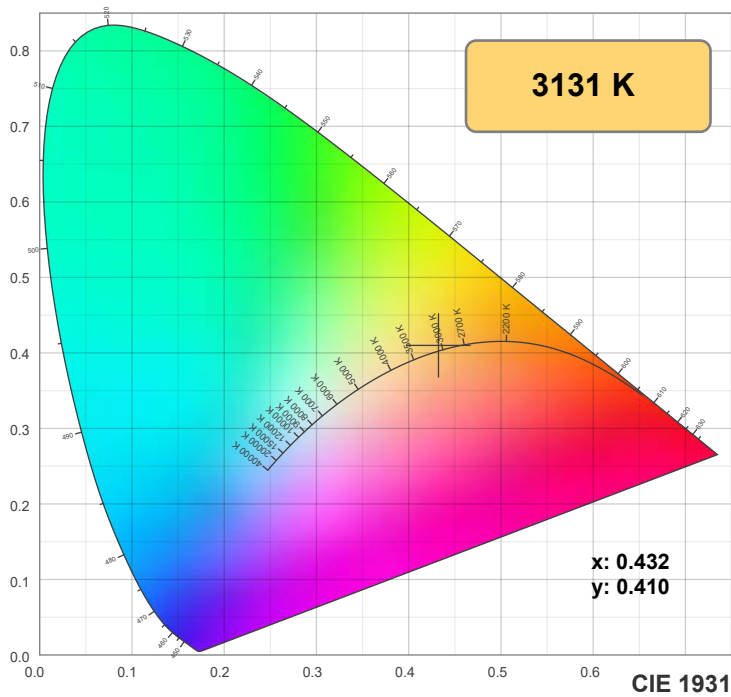
CIE 1931
x: 0.432
y: 0.410

Spectra

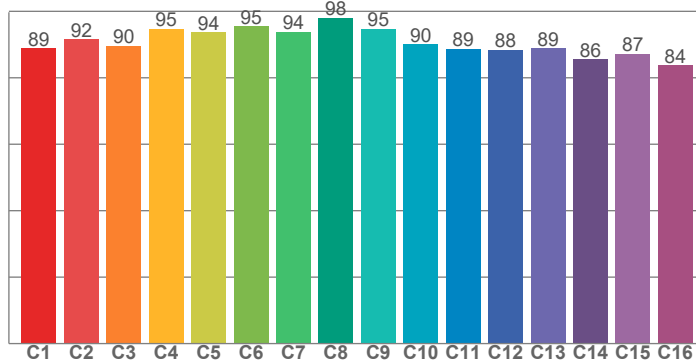


Power

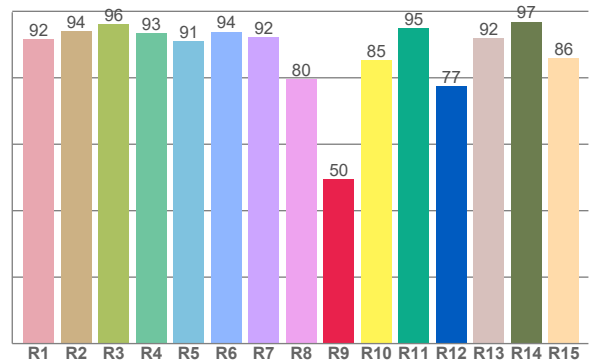




TM30: 91.0



CRI: 91.5 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91.6 | 94.0 | 96.0 | 93.4 | 91.0 | 93.8 | 92.2 | 79.6 | 49.5 | 85.3 | 94.8 | 77.5 | 91.9 | 96.9 | 85.9 |

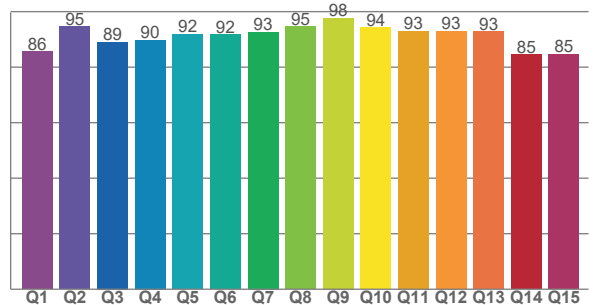
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 88.9 | 91.6 | 89.6 | 94.7 | 93.6 | 95.5 | 93.8 | 98.1 | 94.7 | 90.1 | 88.6 | 88.4 | 88.9 | 85.5 | 87.1 | 83.8 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 85.6 | 94.6 | 89.1 | 89.8 | 91.9 | 91.7 | 92.7 | 94.6 | 97.7 | 94.2 | 93.1 | 93.1 | 92.9 | 84.6 | 84.6 |

CQS: 90.4



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 |
| 3131 K | 91.5 | 49.5 | 91.0 | 98.7 | 90.4 | 0.432 | 0.410 | 0.245 | 0.349 | 0.0030 |

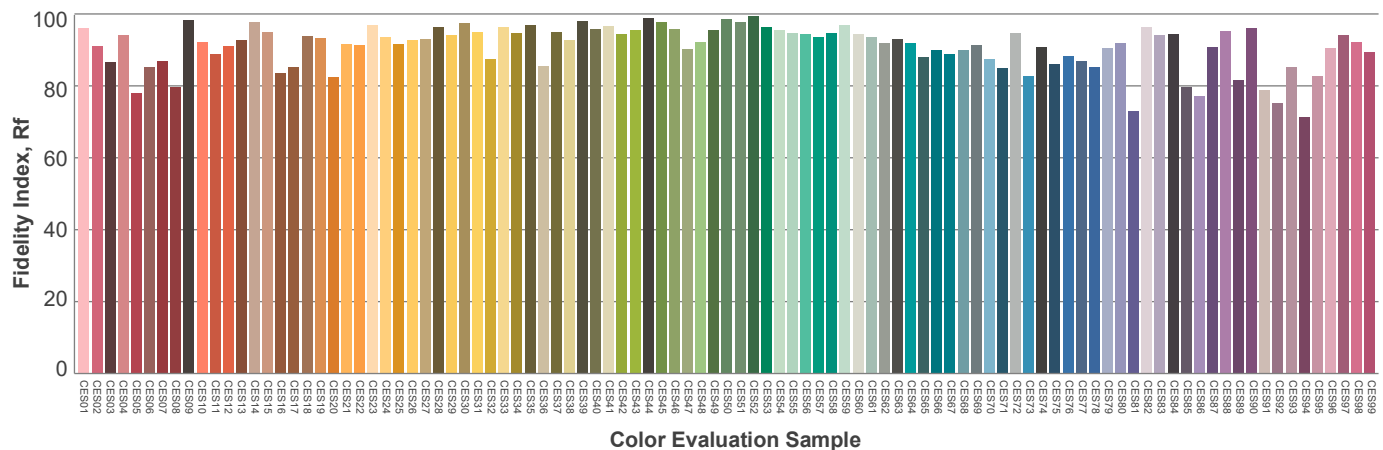
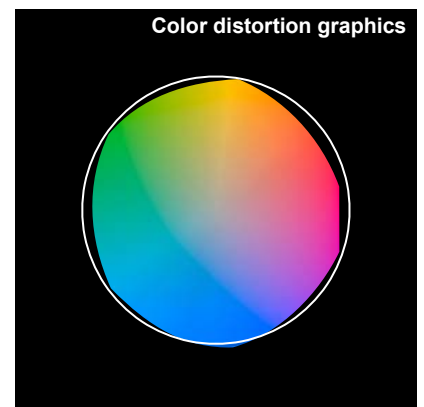
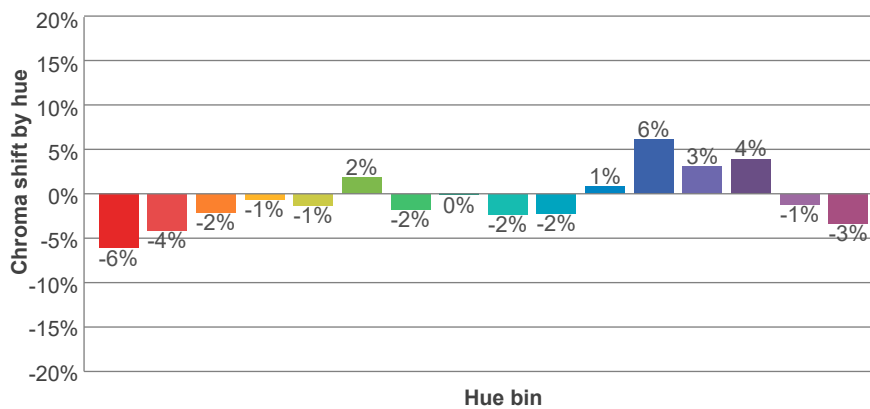
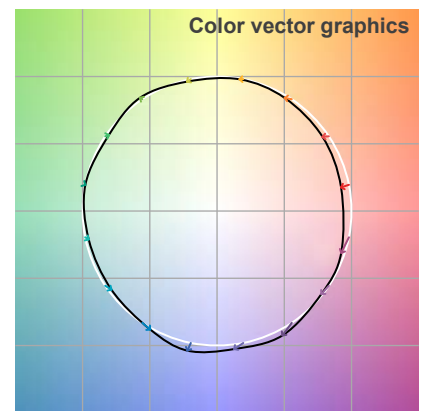
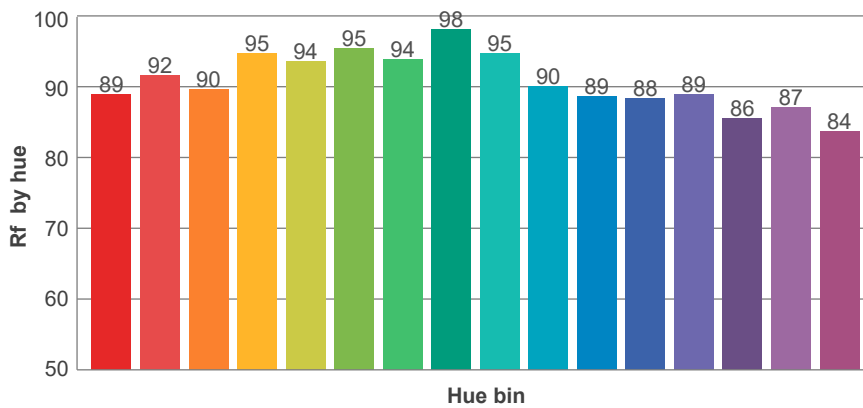
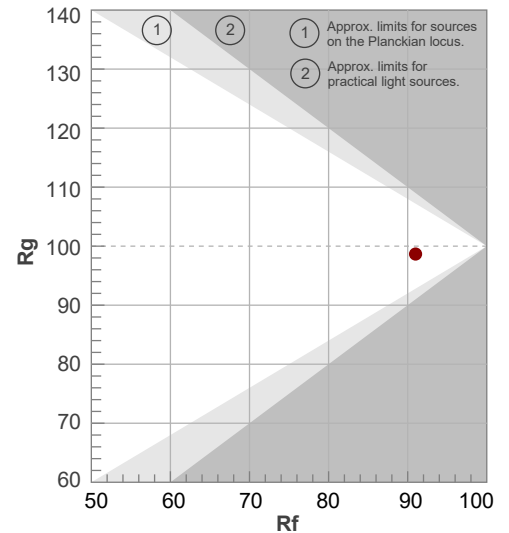
Rf 91.0

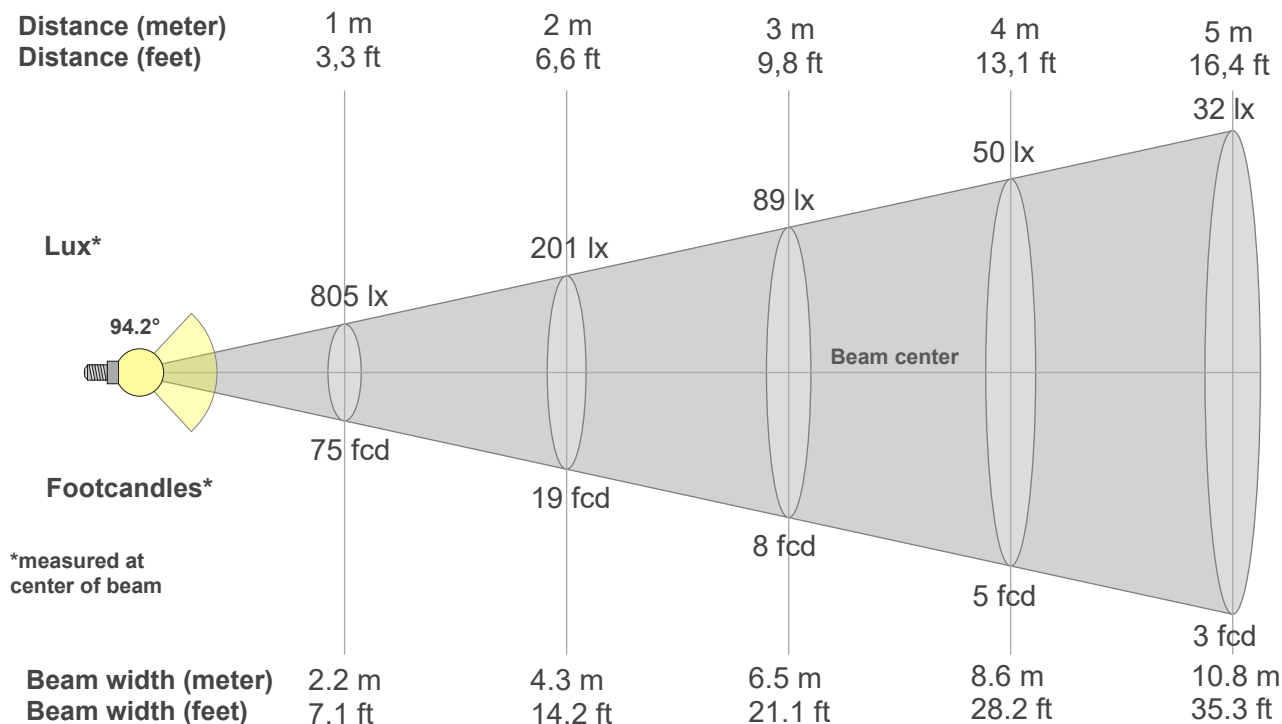
Fidelity index Rf

Rg 98.7

Gammut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 89 | -6% | -1% |
| 2 | 92 | -4% | 2% |
| 3 | 90 | -2% | 5% |
| 4 | 95 | -1% | 3% |
| 5 | 94 | -1% | 3% |
| 6 | 95 | 2% | 1% |
| 7 | 94 | -2% | -2% |
| 8 | 98 | 0% | 0% |
| 9 | 95 | -2% | 2% |
| 10 | 90 | -2% | 5% |
| 11 | 89 | 1% | 8% |
| 12 | 88 | 6% | -1% |
| 13 | 89 | 3% | -8% |
| 14 | 86 | 4% | -11% |
| 15 | 87 | -1% | -8% |
| 16 | 84 | -3% | -12% |





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 |
| 805lx | 201lx | 89lx | 50lx | 32lx | 22lx | 16lx | 13lx | 10lx | 8lx | 7lx | 6lx | 5lx | 4lx | 4lx | 3lx | 3lx | 2lx | 2lx | 2lx |
| 74.7fcd | 18.7fcd | 8.3fcd | 4.7fcd | 3fcd | 2.1fcd | 1.5fcd | 1.2fcd | 0.9fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.4fcd | 0.4fcd | 0.3fcd | 0.3fcd | 0.3fcd | 0.2fcd | 0.2fcd | 0.2fcd |

Intensities in 0° c-plane

| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 805 | 801 | 794 | 781 | 762 | 737 | 700 | 640 | 553 | 447 | 329 | 200 | 98 | 50 | 27 | 15 | 16 | 4 | 1 | 1 |
| 100% | 100% | 99% | 97% | 95% | 92% | 87% | 80% | 69% | 56% | 41% | 25% | 12% | 6% | 3% | 2% | 2% | 1% | 0% | 0% |

Intensities in 90° c-plane

| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 805 | 800 | 790 | 775 | 754 | 728 | 691 | 634 | 549 | 446 | 331 | 203 | 99 | 50 | 27 | 13 | 6 | 2 | 0 | 0 |
| 100% | 99% | 98% | 96% | 94% | 90% | 86% | 79% | 68% | 55% | 41% | 25% | 12% | 6% | 3% | 2% | 1% | 0% | 0% | 0% |

Intensities in 180° c-plane

| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 805 | 801 | 794 | 781 | 762 | 737 | 700 | 640 | 553 | 447 | 329 | 200 | 98 | 50 | 27 | 15 | 16 | 4 | 1 | 1 |
| 100% | 100% | 99% | 97% | 95% | 92% | 87% | 80% | 69% | 56% | 41% | 25% | 12% | 6% | 3% | 2% | 2% | 1% | 0% | 0% |

Intensities in 270° c-plane

| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 805 | 800 | 790 | 775 | 754 | 728 | 691 | 634 | 549 | 446 | 331 | 203 | 99 | 50 | 27 | 13 | 6 | 2 | 0 | 0 |
| 100% | 99% | 98% | 96% | 94% | 90% | 86% | 79% | 68% | 55% | 41% | 25% | 12% | 6% | 3% | 2% | 1% | 0% | 0% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 94.2° | 122.8° | 148.1° | 95.2% | 74.3% |