

Light efficiency:

66 Lumen/Watt

Light quality:

CRI: 82.6

Color temperature:

2931 K

Output: 1846 lm

Peak: 2528 cd

Power: 27.9 W

PF: 1.0

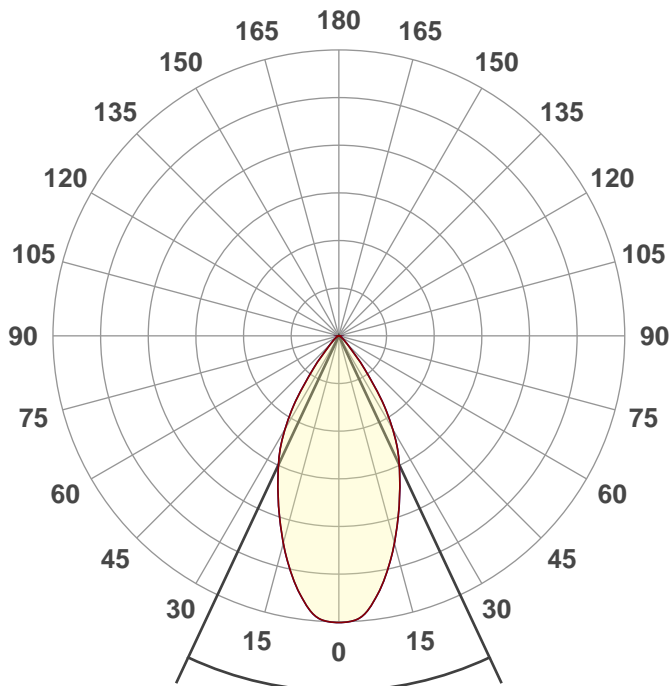


Product name:

608RA-4-XTM19-25LM-30K-83-D50-120-ELV-BK-BK-S

Date and time:

1/25/2019 10:07:21 AM



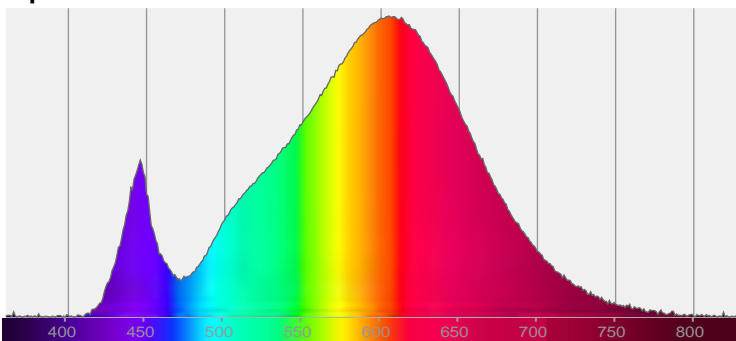
Beam angle

50.2°

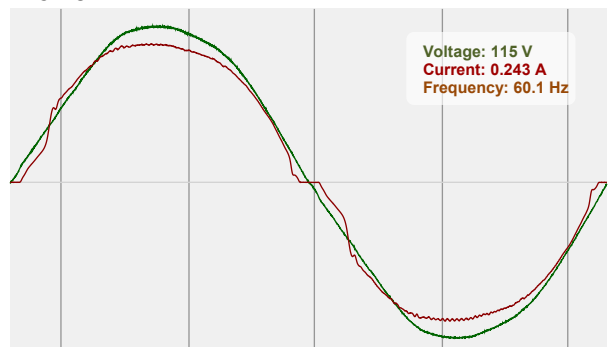


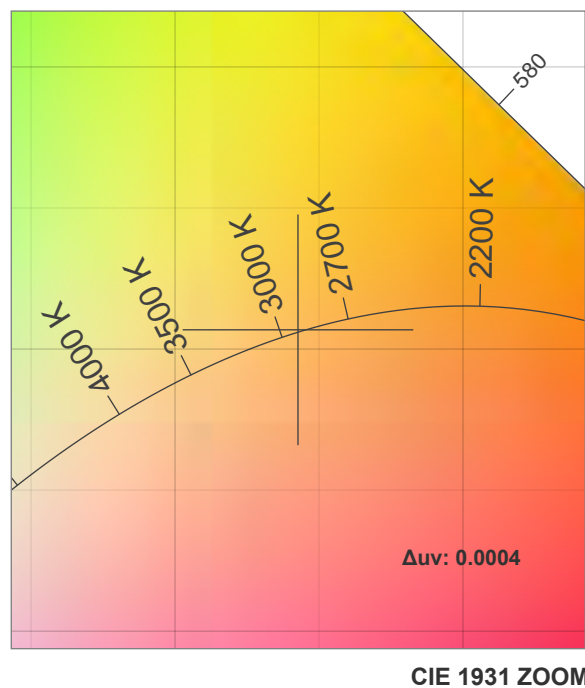
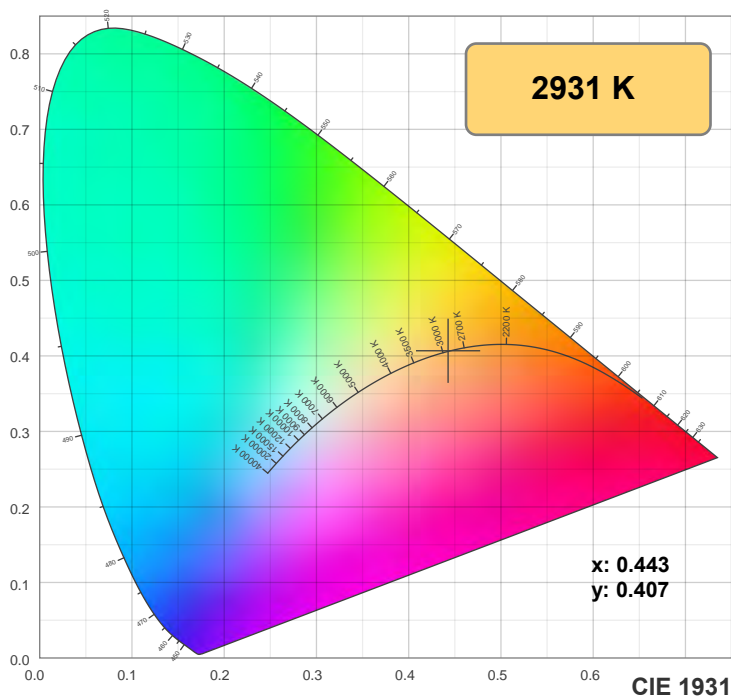
CIE 1931
x: 0.443
y: 0.407

Spectra

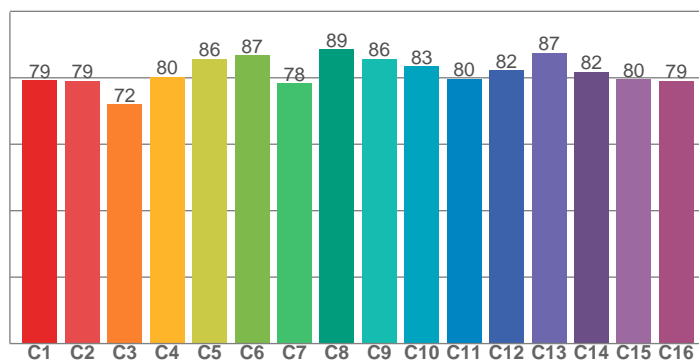


Power

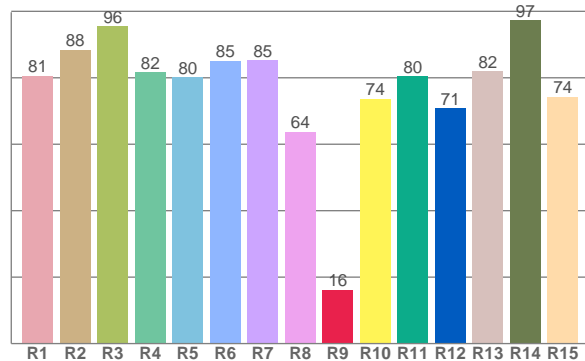




TM30: 81.6



CRI: 82.6 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.6 | 88.5 | 95.5 | 81.8 | 80.2 | 85.1 | 85.2 | 63.7 | 16.2 | 73.7 | 80.5 | 70.8 | 81.9 | 97.2 | 74.3 |

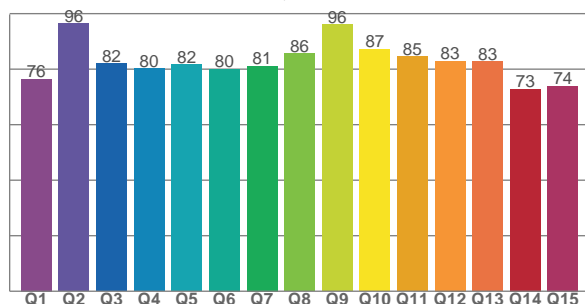
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.2 | 79.0 | 71.9 | 80.3 | 85.7 | 86.7 | 78.3 | 88.5 | 85.6 | 83.4 | 79.6 | 82.3 | 87.4 | 81.9 | 79.5 | 79.0 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 76.4 | 96.5 | 82.0 | 80.3 | 81.6 | 80.1 | 81.2 | 85.6 | 96.1 | 87.1 | 84.6 | 83.0 | 82.7 | 72.9 | 74.0 |

CQS: 81.6



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 |
| 2931 K | 82.6 | 16.2 | 81.6 | 98.8 | 81.6 | 0.443 | 0.407 | 0.253 | 0.349 | 0.0004 |

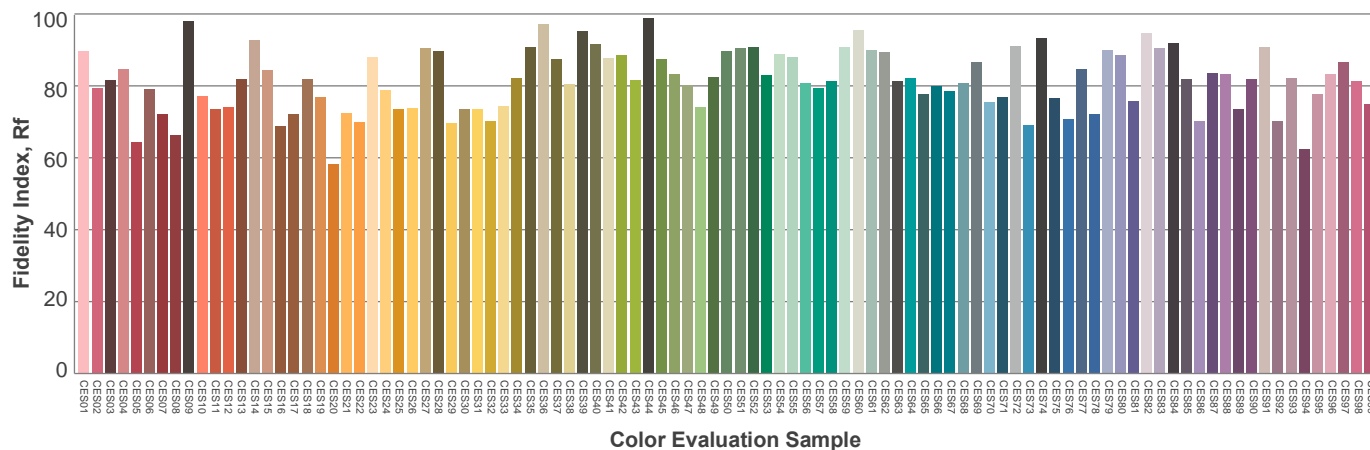
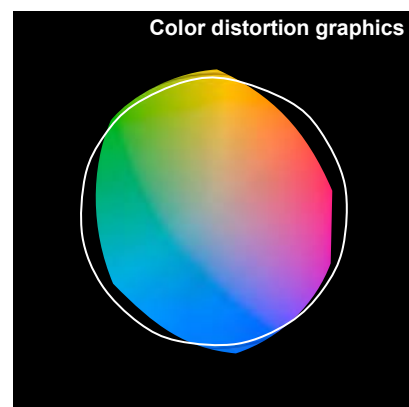
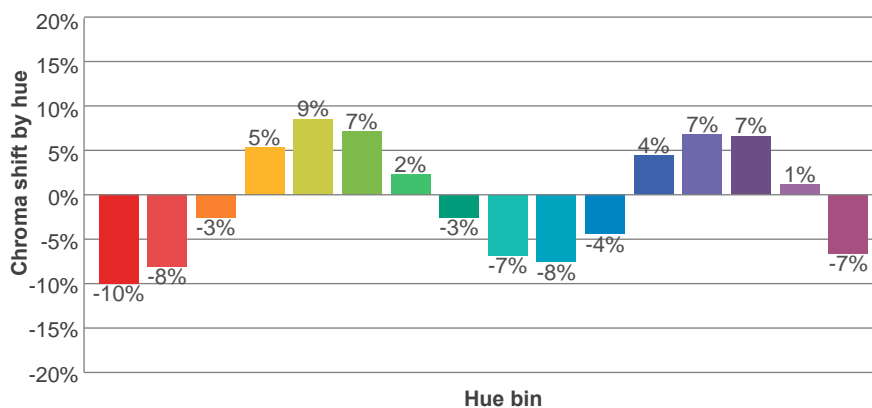
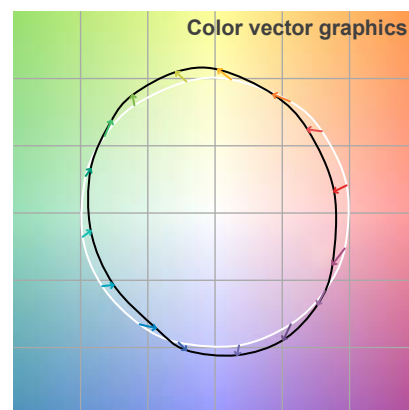
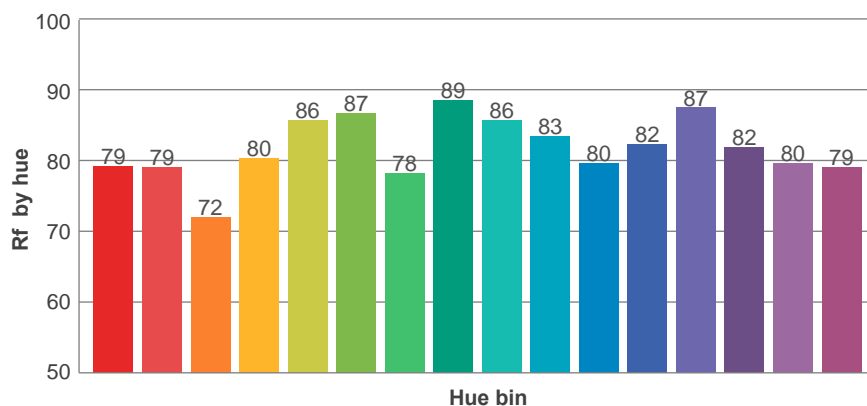
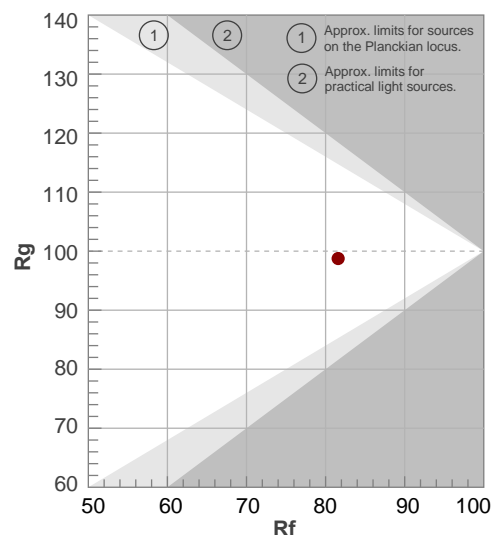
Rf 81.6

Fidelity index Rf

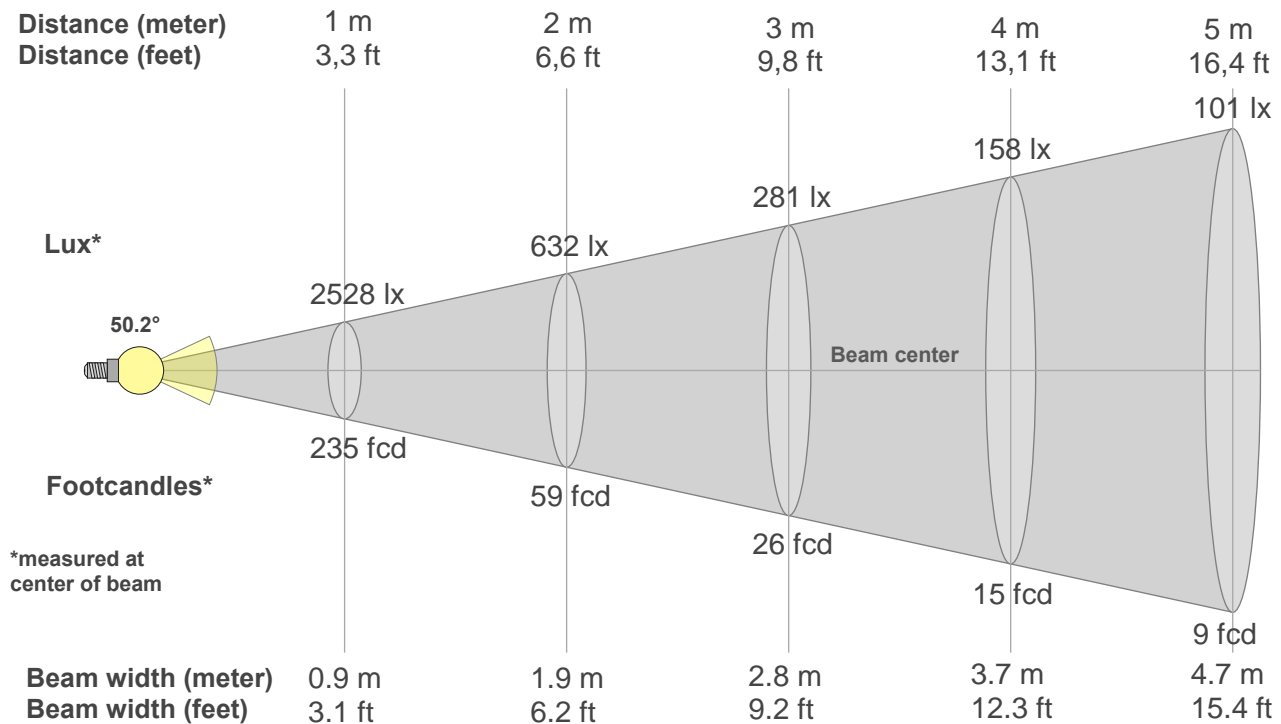
Rg 98.8

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 79 | -10% | -3% |
| 2 | 79 | -8% | 7% |
| 3 | 72 | -3% | 13% |
| 4 | 80 | 5% | 11% |
| 5 | 86 | 9% | 6% |
| 6 | 87 | 7% | -3% |
| 7 | 78 | 2% | -12% |
| 8 | 89 | -3% | -6% |
| 9 | 86 | -7% | -3% |
| 10 | 83 | -8% | 4% |
| 11 | 80 | -4% | 12% |
| 12 | 82 | 4% | 6% |
| 13 | 87 | 7% | -3% |
| 14 | 82 | 7% | -11% |
| 15 | 80 | 1% | -11% |
| 16 | 79 | -7% | -13% |



Beam Details



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 |
| 2528lx | 632lx | 281lx | 158lx | 101lx | 70lx | 52lx | 39lx | 31lx | 25lx | 21lx | 18lx | 15lx | 13lx | 11lx | 10lx | 9lx | 8lx | 7lx | 6lx |
| 234.8fcd | 58.7fcd | 26.1fcd | 14.7fcd | 9.4fcd | 6.5fcd | 4.8fcd | 3.7fcd | 2.9fcd | 2.3fcd | 1.9fcd | 1.6fcd | 1.4fcd | 1.2fcd | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 2528 | 2528 | 2513 | 2430 | 2347 | 2233 | 2107 | 1978 | 1841 | 1704 | 1577 | 1450 | 1328 | 1212 | 1095 | 953 | 810 | 662 | 509 | 364 |
| 100% | 100% | 99% | 96% | 93% | 88% | 83% | 78% | 73% | 67% | 62% | 57% | 53% | 48% | 43% | 38% | 32% | 26% | 20% | 14% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 2528 | 2528 | 2513 | 2430 | 2347 | 2233 | 2107 | 1978 | 1841 | 1704 | 1577 | 1450 | 1328 | 1212 | 1095 | 953 | 810 | 662 | 509 | 364 |
| 100% | 100% | 99% | 96% | 93% | 88% | 83% | 78% | 73% | 67% | 62% | 57% | 53% | 48% | 43% | 38% | 32% | 26% | 20% | 14% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 2528 | 2528 | 2513 | 2430 | 2347 | 2233 | 2107 | 1978 | 1841 | 1704 | 1577 | 1450 | 1328 | 1212 | 1095 | 953 | 810 | 662 | 509 | 364 |
| 100% | 100% | 99% | 96% | 93% | 88% | 83% | 78% | 73% | 67% | 62% | 57% | 53% | 48% | 43% | 38% | 32% | 26% | 20% | 14% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 2528 | 2528 | 2513 | 2430 | 2347 | 2233 | 2107 | 1978 | 1841 | 1704 | 1577 | 1450 | 1328 | 1212 | 1095 | 953 | 810 | 662 | 509 | 364 |
| 100% | 100% | 99% | 96% | 93% | 88% | 83% | 78% | 73% | 67% | 62% | 57% | 53% | 48% | 43% | 38% | 32% | 26% | 20% | 14% |

| Beam angle 50° | Field angle 10° | Cutoff angle 2,5° | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 50.2° | 80.8° | 100.7° | 99.1% | 95.5% |