

Light efficiency:

86 Lumen/Watt

Light quality:

CRI: 85.0

Color temperature:

3037 K

Output: 1664 lm

Peak: 5296 cd

Power: 19.3 W

PF: 1.0

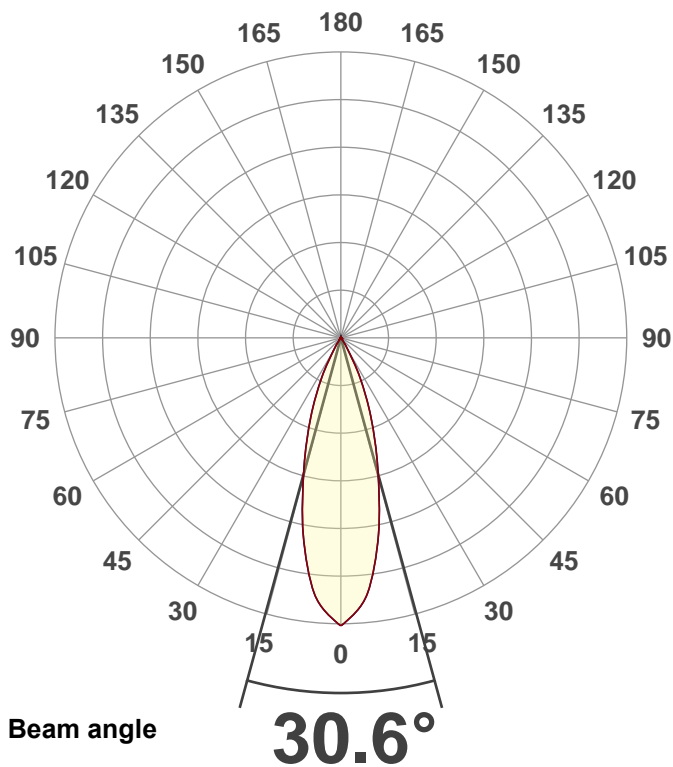


Product name:

A25-4-RH-SW-25LM-30K-80-BKS30-SMT-CAS-WH

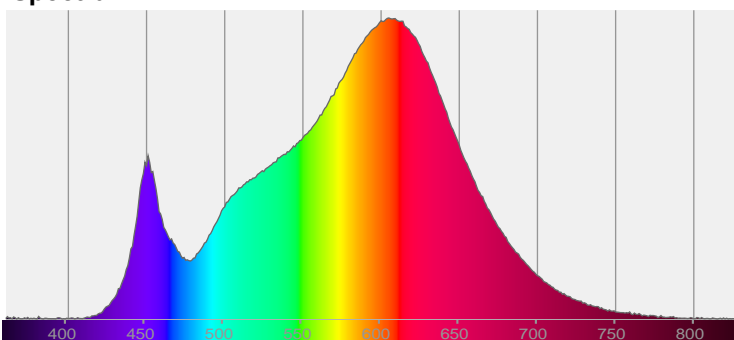
Date and time:

2/20/2019 8:33:36 AM

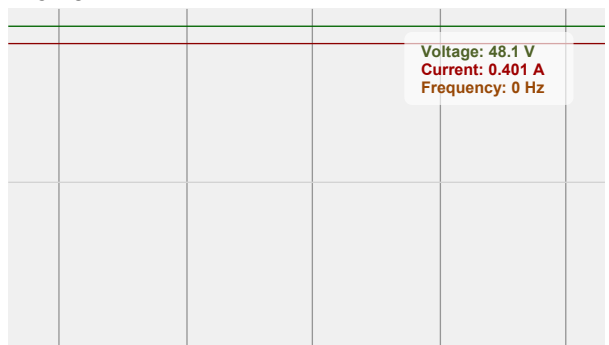


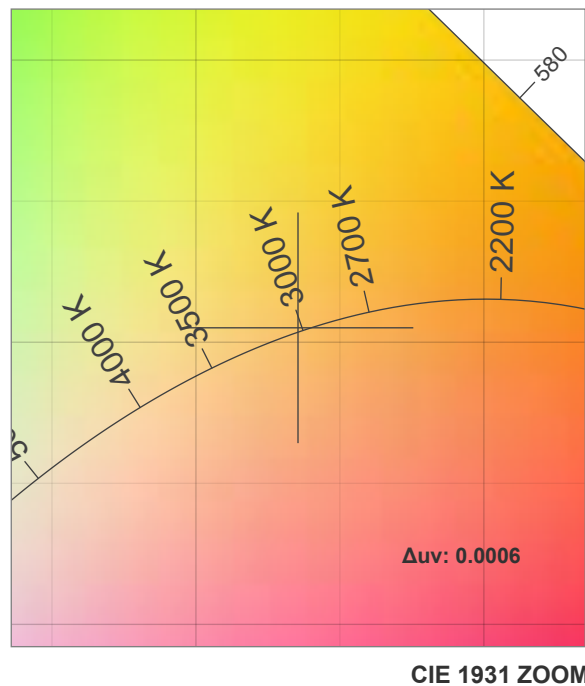
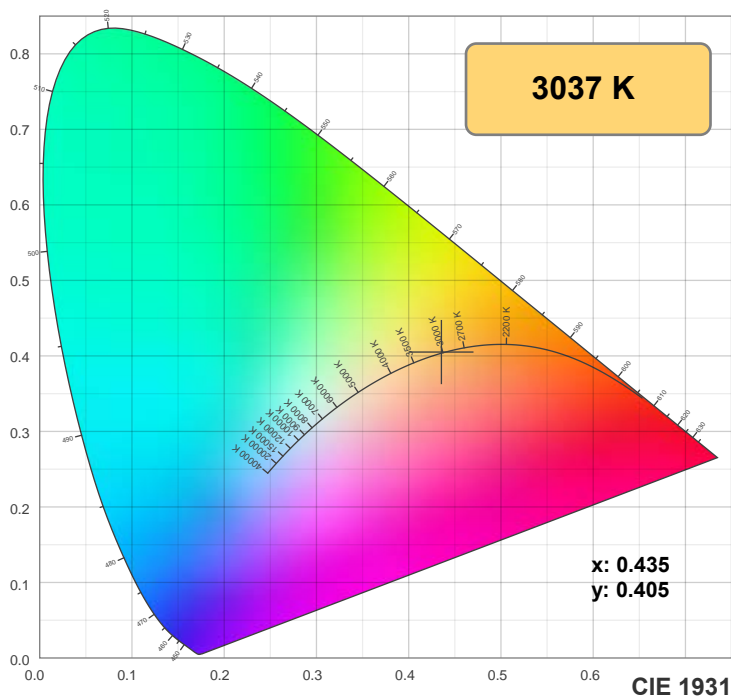
CIE 1931
x: 0.435
y: 0.405

Spectra

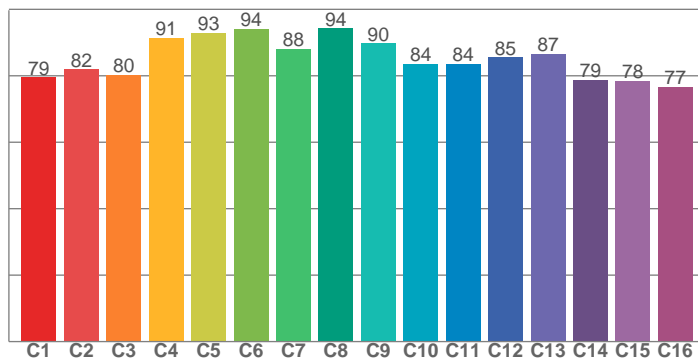


Power

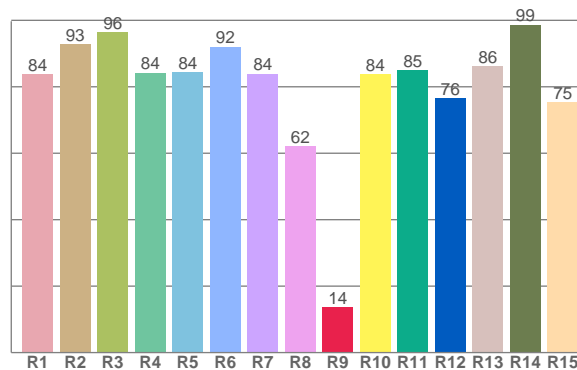




TM30: 85.5



CRI: 85.0 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 83.8 | 92.8 | 96.5 | 84.2 | 84.4 | 92.1 | 83.9 | 62.0 | 13.7 | 83.8 | 85.0 | 76.5 | 86.1 | 98.7 | 75.4 |

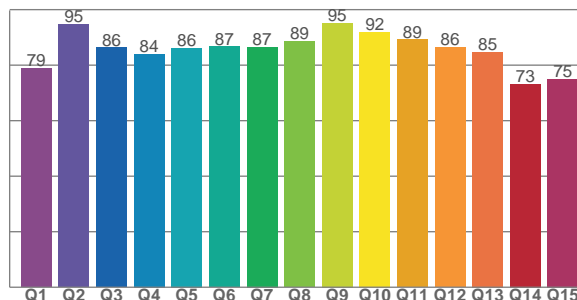
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.5 | 81.9 | 80.3 | 91.3 | 93.0 | 94.2 | 88.1 | 94.3 | 89.7 | 83.5 | 83.6 | 85.5 | 86.5 | 78.7 | 78.4 | 76.6 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78.9 | 94.7 | 86.3 | 84.0 | 86.2 | 86.7 | 86.5 | 88.6 | 95.2 | 92.0 | 89.2 | 86.5 | 84.7 | 73.1 | 75.1 |

CQS: 84.5



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 |
| 3037 K | 85.0 | 13.7 | 85.5 | 96.0 | 84.5 | 0.435 | 0.405 | 0.249 | 0.348 | 0.0006 |

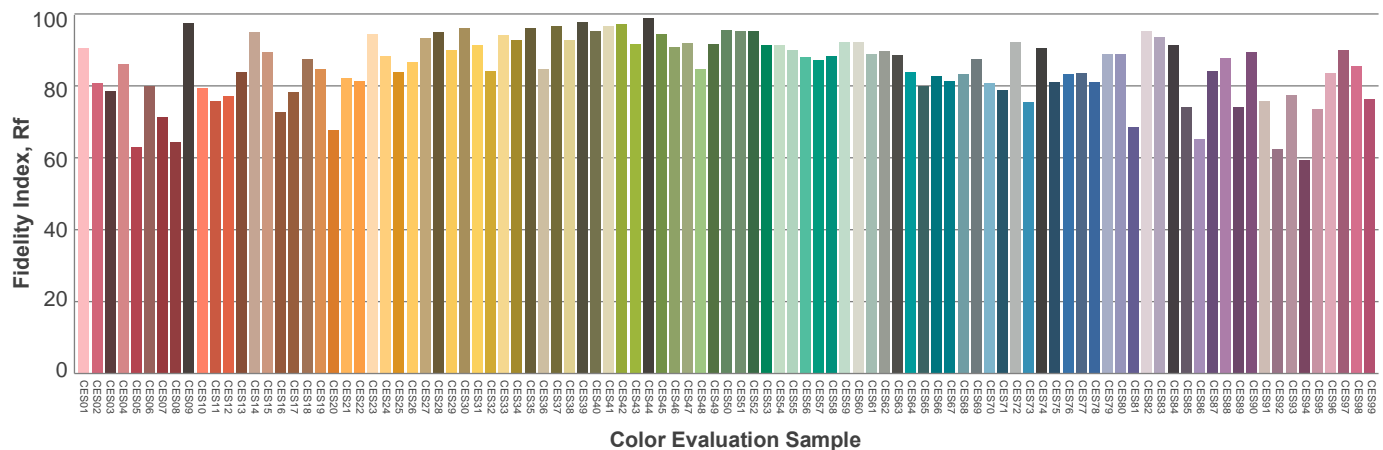
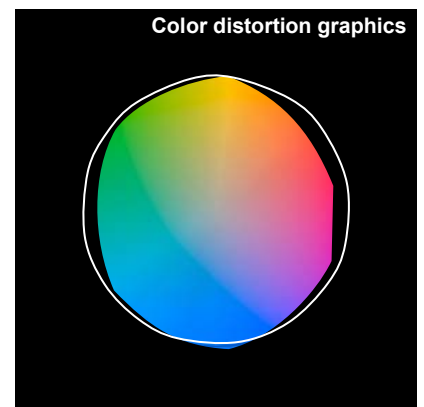
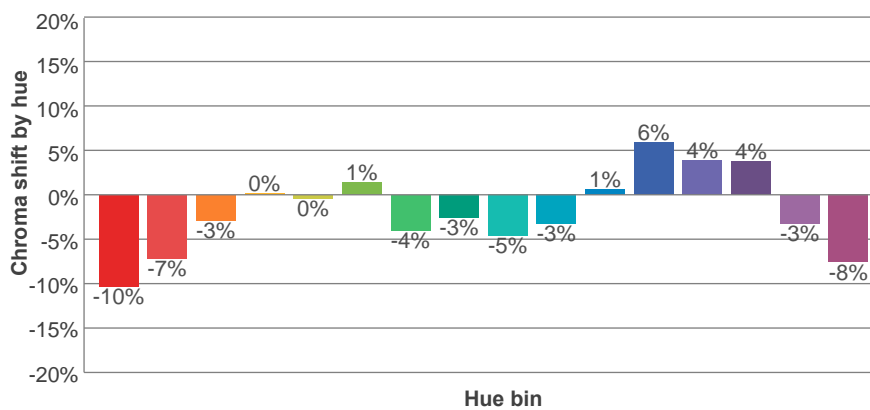
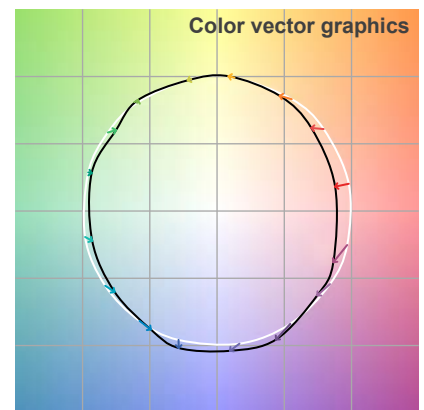
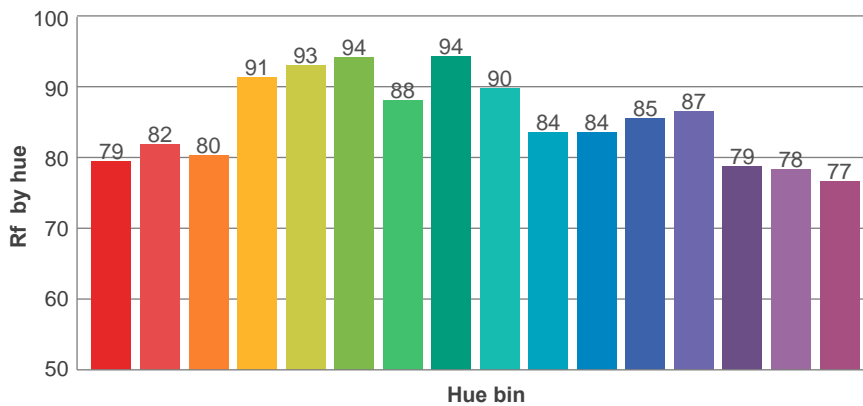
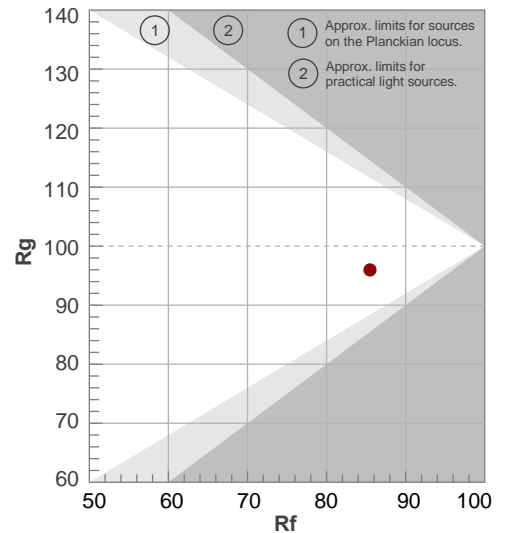
Rf 85.5

Fidelity index Rf

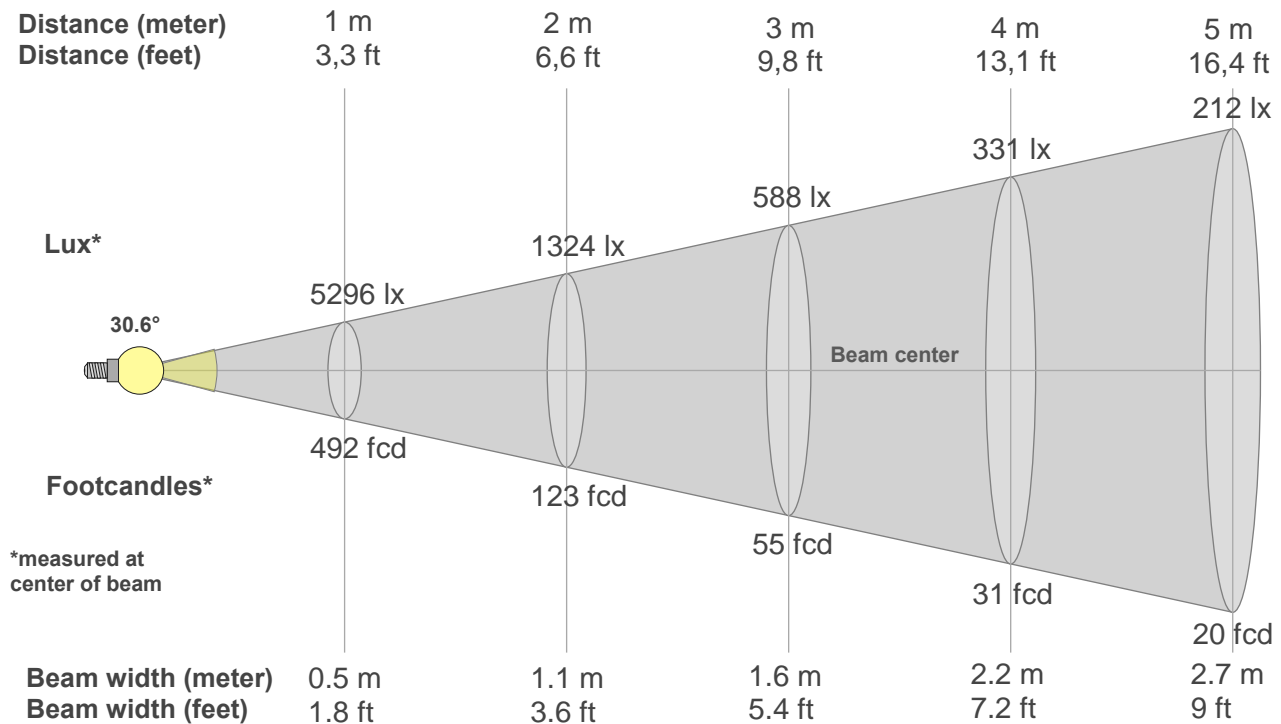
Rg 96.0

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 79 | -10% | 0% |
| 2 | 82 | -7% | 6% |
| 3 | 80 | -3% | 9% |
| 4 | 91 | 0% | 5% |
| 5 | 93 | 0% | 3% |
| 6 | 94 | 1% | -2% |
| 7 | 88 | -4% | -5% |
| 8 | 94 | -3% | 0% |
| 9 | 90 | -5% | 4% |
| 10 | 84 | -3% | 8% |
| 11 | 84 | 1% | 11% |
| 12 | 85 | 6% | 1% |
| 13 | 87 | 4% | -8% |
| 14 | 79 | 4% | -15% |
| 15 | 78 | -3% | -12% |
| 16 | 77 | -8% | -15% |



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 |
| 5296lx | 1324lx | 588lx | 331lx | 212lx | 147lx | 108lx | 83lx | 65lx | 53lx | 44lx | 37lx | 31lx | 27lx | 24lx | 21lx | 18lx | 16lx | 15lx | 13lx |
| 492fcd | 123fcd | 54.7fcd | 30.7fcd | 19.7fcd | 13.7fcd | 10fcd | 7.7fcd | 6.1fcd | 4.9fcd | 4.1fcd | 3.4fcd | 2.9fcd | 2.5fcd | 2.2fcd | 1.9fcd | 1.7fcd | 1.5fcd | 1.4fcd | 1.2fcd |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 5296 | 5189 | 4987 | 4774 | 4342 | 3911 | 3448 | 2962 | 2486 | 2105 | 1725 | 1390 | 1084 | 787 | 552 | 317 | 185 | 101 | 31 | 19 |
| 100% | 98% | 94% | 90% | 82% | 74% | 65% | 56% | 47% | 40% | 33% | 26% | 20% | 15% | 10% | 6% | 3% | 2% | 1% | 0% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 5296 | 5189 | 4987 | 4774 | 4342 | 3911 | 3448 | 2962 | 2486 | 2105 | 1725 | 1390 | 1084 | 787 | 552 | 317 | 185 | 101 | 31 | 19 |
| 100% | 98% | 94% | 90% | 82% | 74% | 65% | 56% | 47% | 40% | 33% | 26% | 20% | 15% | 10% | 6% | 3% | 2% | 1% | 0% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 5296 | 5189 | 4987 | 4774 | 4342 | 3911 | 3448 | 2962 | 2486 | 2105 | 1725 | 1390 | 1084 | 787 | 552 | 317 | 185 | 101 | 31 | 19 |
| 100% | 98% | 94% | 90% | 82% | 74% | 65% | 56% | 47% | 40% | 33% | 26% | 20% | 15% | 10% | 6% | 3% | 2% | 1% | 0% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 5296 | 5189 | 4987 | 4774 | 4342 | 3911 | 3448 | 2962 | 2486 | 2105 | 1725 | 1390 | 1084 | 787 | 552 | 317 | 185 | 101 | 31 | 19 |
| 100% | 98% | 94% | 90% | 82% | 74% | 65% | 56% | 47% | 40% | 33% | 26% | 20% | 15% | 10% | 6% | 3% | 2% | 1% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 30.6° | 56.4° | 66.5° | 99.7% | 99.6% |