

Light efficiency:

97 Lumen/Watt

Light quality:

CRI: 84.6

Color temperature:

3033 K

Output: 1530 lm

Peak: 2552 cd

Power: 15.7 W

PF: 1.0

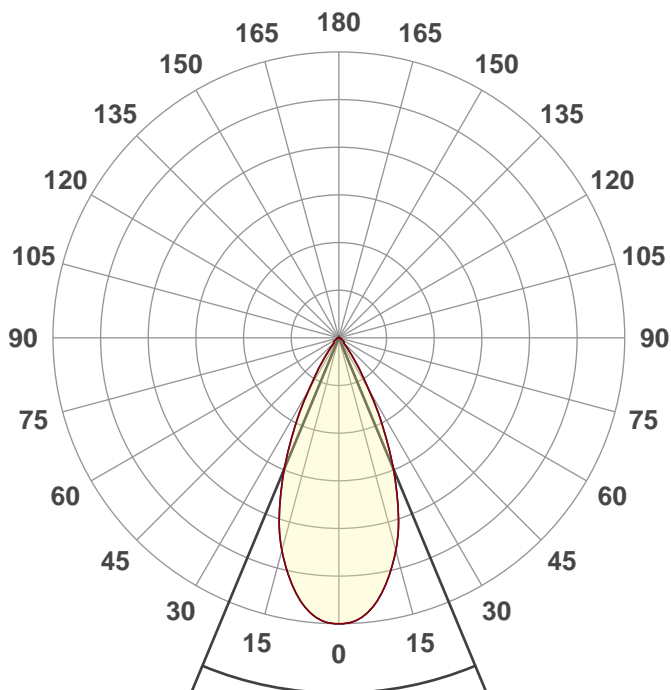


Product name:

A25-4-RH-SW-20LM-30K-80-WHS45-SMT-CAS-WH

Date and time:

2/20/2019 1:57:02 PM



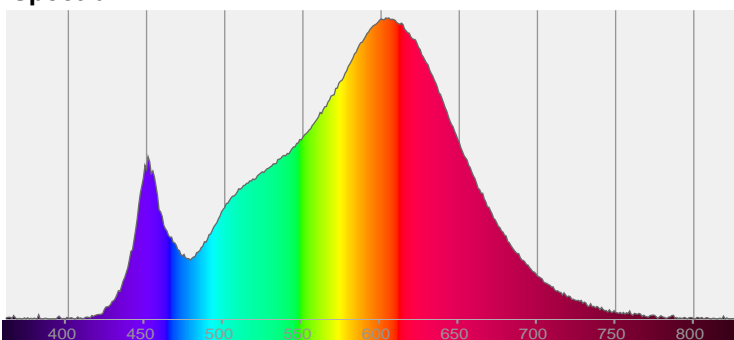
Beam angle

45.2°

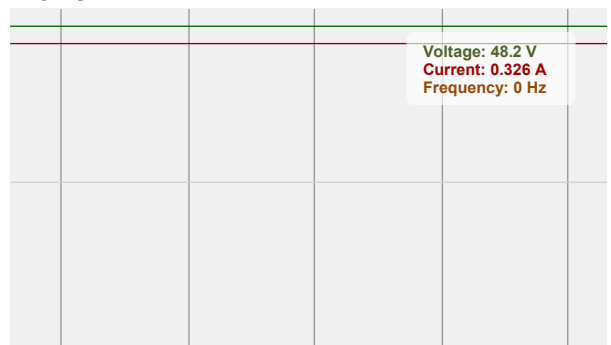


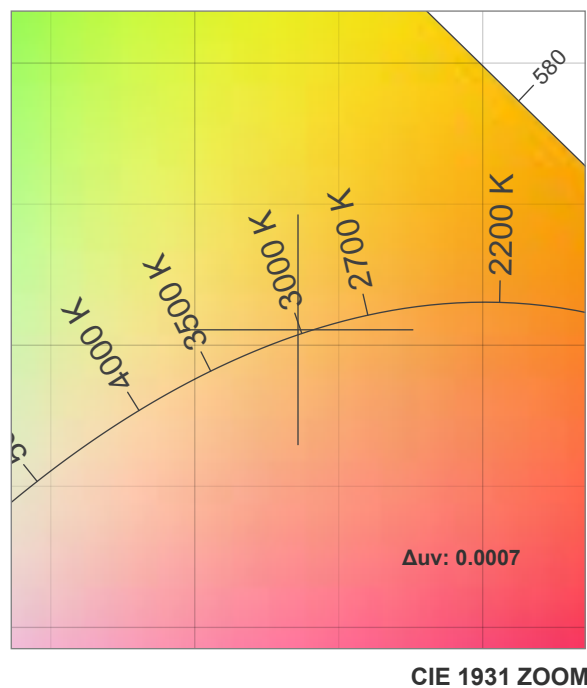
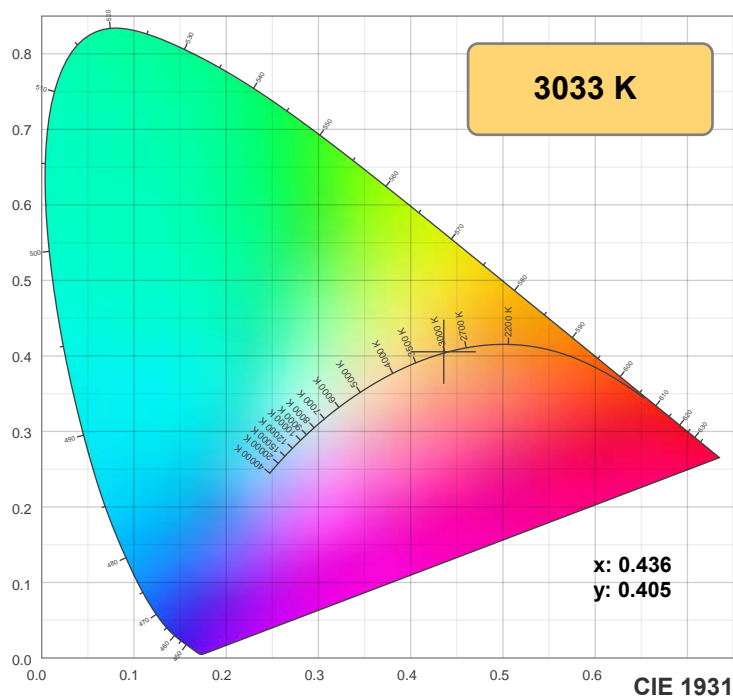
CIE 1931
x: 0.436
y: 0.405

Spectra

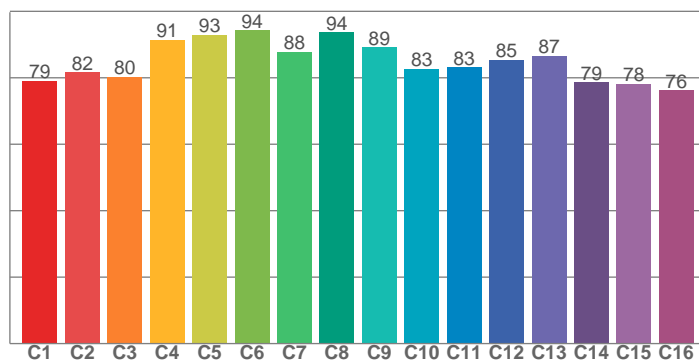


Power

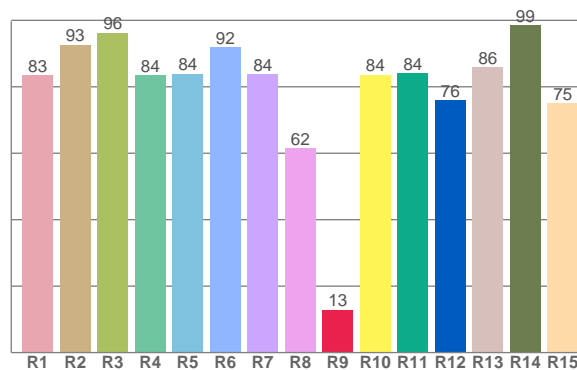




TM30: 85.2



CRI: 84.6 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 83.4 | 92.7 | 96.3 | 83.6 | 83.9 | 91.9 | 83.7 | 61.6 | 12.9 | 83.7 | 84.1 | 75.8 | 85.8 | 98.6 | 75.0 |

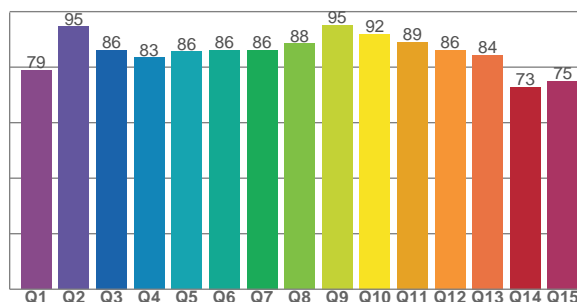
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.1 | 81.6 | 80.2 | 91.5 | 92.9 | 94.3 | 87.9 | 93.7 | 89.1 | 82.6 | 83.2 | 85.5 | 86.5 | 78.6 | 78.2 | 76.3 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78.8 | 94.6 | 86.2 | 83.5 | 85.6 | 86.3 | 86.1 | 88.5 | 95.1 | 92.0 | 89.0 | 86.2 | 84.4 | 72.9 | 74.9 |

CQS: 84.2



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 |
| 3033 K | 84.6 | 12.9 | 85.2 | 95.6 | 84.2 | 0.436 | 0.405 | 0.249 | 0.348 | 0.0007 |

TM30 Details

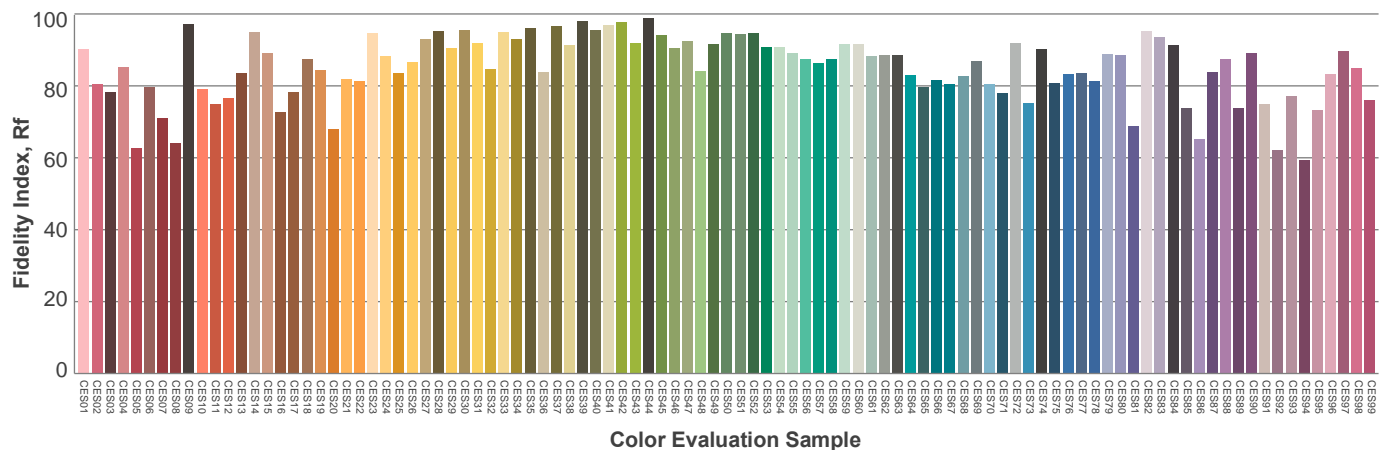
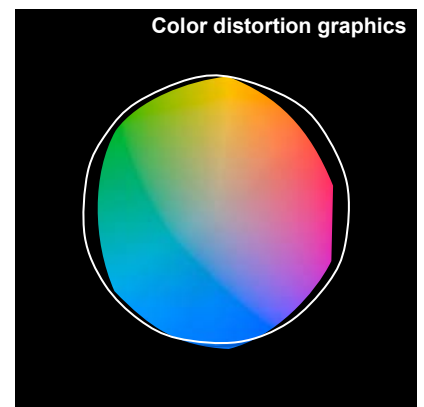
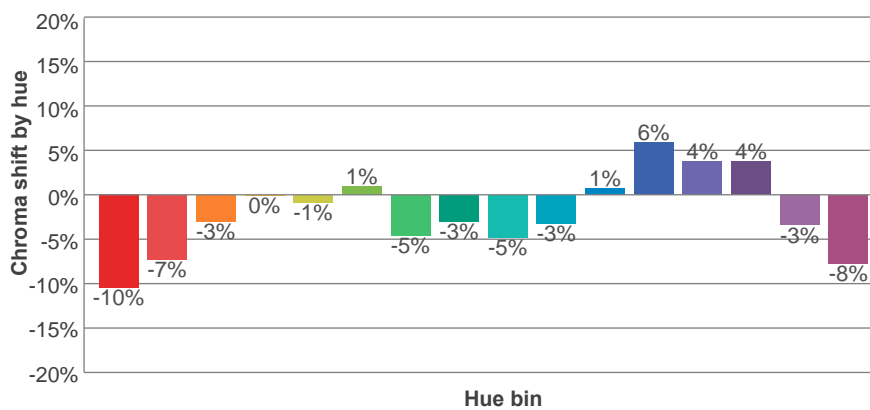
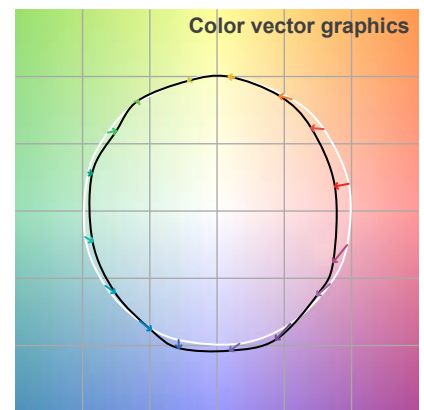
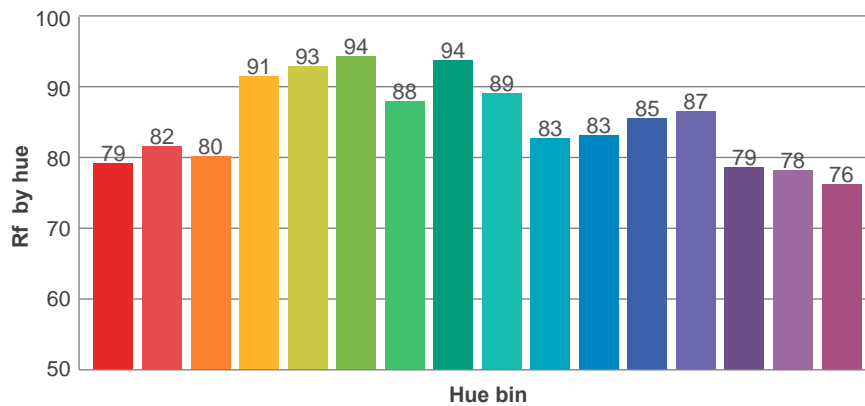
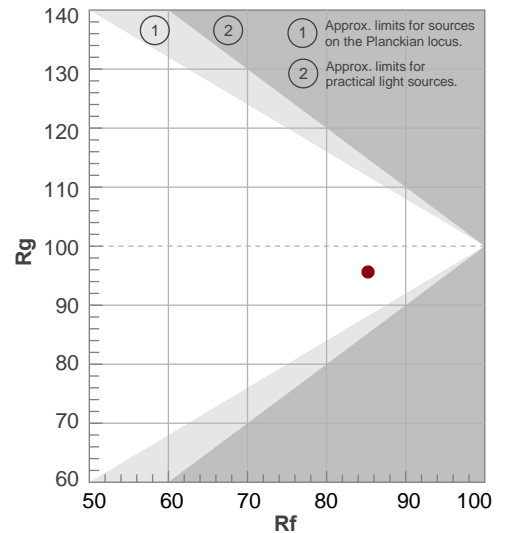
Rf 85.2

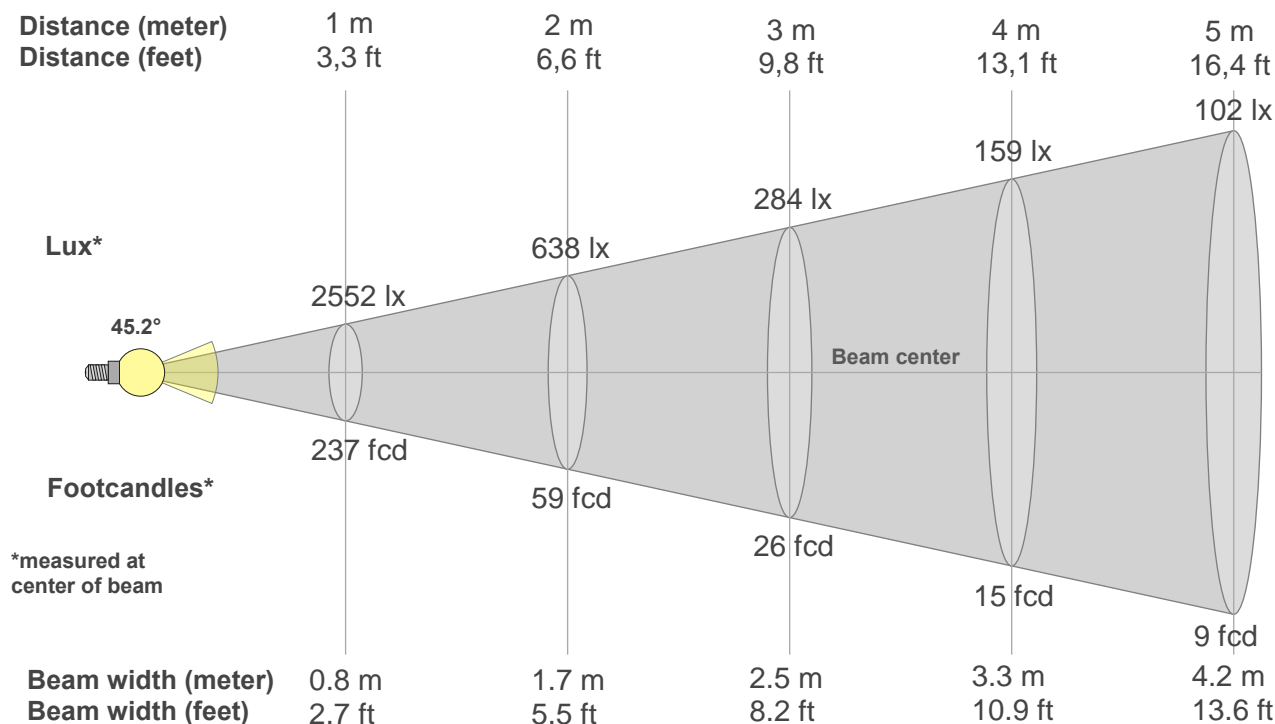
Fidelity index Rf

Rg 95.6

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% | 4% |
| 5 | 93 | -1% | 3% |
| 6 | 94 | 1% | -2% |
| 7 | 88 | -5% | -5% |
| 8 | 94 | -3% | 0% |
| 9 | 89 | -5% | 4% |
| 10 | 83 | -3% | 8% |
| 11 | 83 | 1% | 11% |
| 12 | 85 | 6% | 1% |
| 13 | 87 | 4% | -8% |
| 14 | 79 | 4% | -15% |
| 15 | 78 | -3% | -12% |
| 16 | 76 | -8% | -15% |





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 |
| 2552lx | 638lx | 284lx | 159lx | 102lx | 71lx | 52lx | 40lx | 32lx | 26lx | 21lx | 18lx | 15lx | 13lx | 11lx | 10lx | 9lx | 8lx | 7lx | 6lx |
| 237.1fcd | 59.3fcd | 26.3fcd | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 2552 | 2552 | 2520 | 2462 | 2398 | 2285 | 2173 | 2036 | 1890 | 1729 | 1532 | 1335 | 1132 | 929 | 740 | 568 | 400 | 310 | 221 | 159 |
| 100% | 100% | 99% | 97% | 94% | 90% | 85% | 80% | 74% | 68% | 60% | 52% | 44% | 36% | 29% | 22% | 16% | 12% | 9% | 6% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 2552 | 2552 | 2520 | 2462 | 2398 | 2285 | 2173 | 2036 | 1890 | 1729 | 1532 | 1335 | 1132 | 929 | 740 | 568 | 400 | 310 | 221 | 159 |
| 100% | 100% | 99% | 97% | 94% | 90% | 85% | 80% | 74% | 68% | 60% | 52% | 44% | 36% | 29% | 22% | 16% | 12% | 9% | 6% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 2552 | 2552 | 2520 | 2462 | 2398 | 2285 | 2173 | 2036 | 1890 | 1729 | 1532 | 1335 | 1132 | 929 | 740 | 568 | 400 | 310 | 221 | 159 |
| 100% | 100% | 99% | 97% | 94% | 90% | 85% | 80% | 74% | 68% | 60% | 52% | 44% | 36% | 29% | 22% | 16% | 12% | 9% | 6% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 2552 | 2552 | 2520 | 2462 | 2398 | 2285 | 2173 | 2036 | 1890 | 1729 | 1532 | 1335 | 1132 | 929 | 740 | 568 | 400 | 310 | 221 | 159 |
| 100% | 100% | 99% | 97% | 94% | 90% | 85% | 80% | 74% | 68% | 60% | 52% | 44% | 36% | 29% | 22% | 16% | 12% | 9% | 6% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 45.2° | 70.5° | 94° | 98.3% | 93.9% |