

Light efficiency:

65 Lumen/Watt

Light quality:

CRI: 82.7

Color temperature:

2869 K

Output: 590 lm

Peak: 387 cd

Power: 9.1 W

PF: 0.96

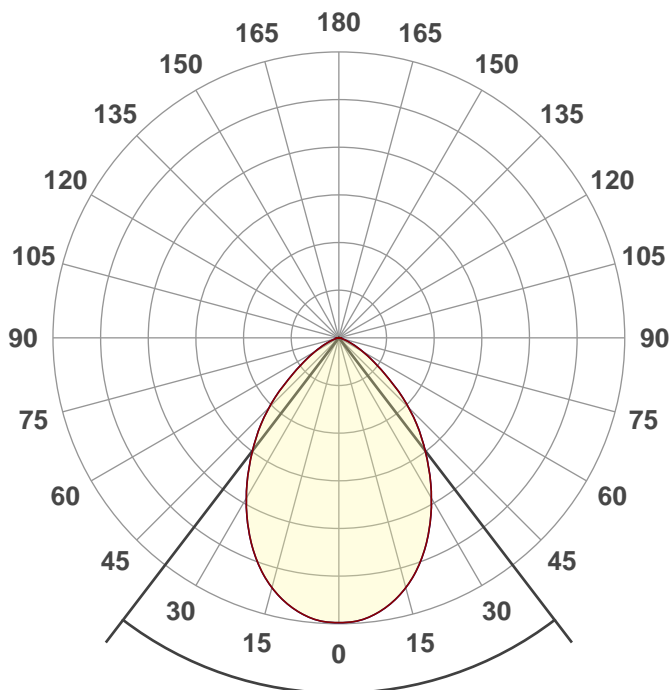


Product name:

A15-3-XTM19-10LM-30K-83-HE75-120-DIM10-WH-WH-P

Date and time:

1/24/2019 2:09:21 PM



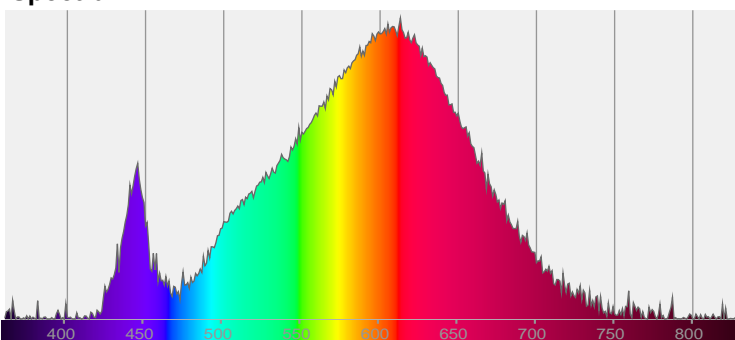
Beam angle

74.8°

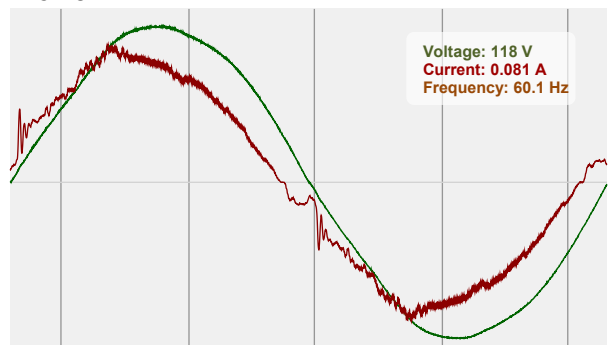


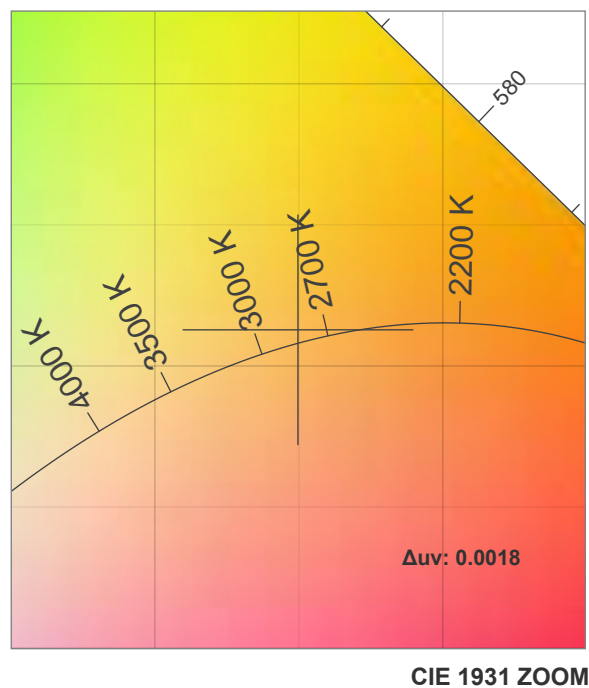
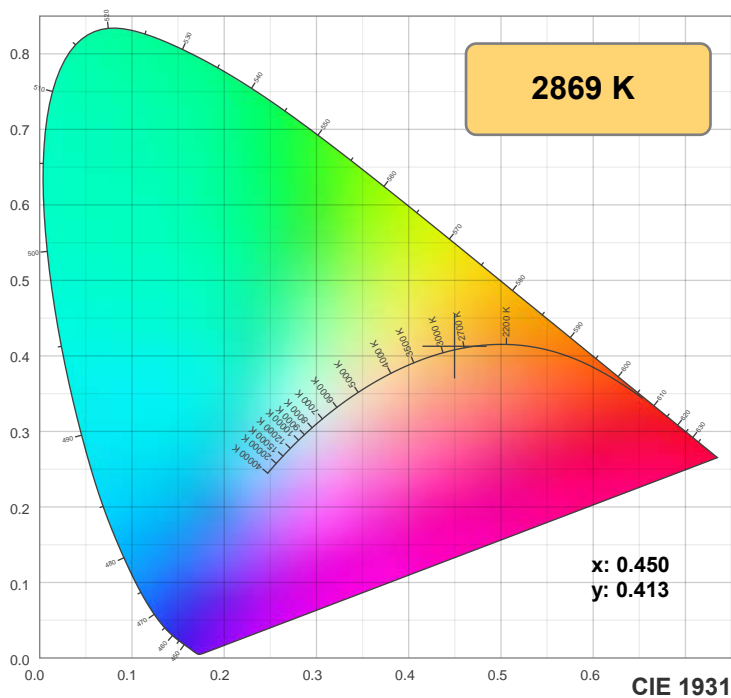
CIE 1931
x: 0.450
y: 0.413

Spectra

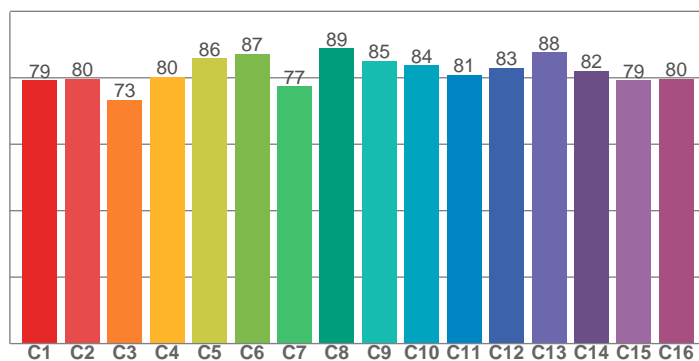


Power

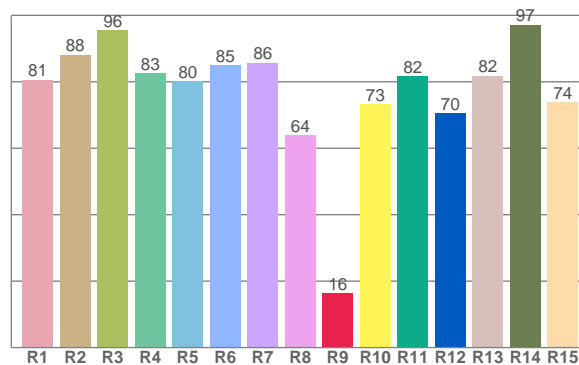




TM30: 81.9



CRI: 82.7 (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 | 88.1 | 95.5 | 82.5 | 80.2 | 85.0 | 85.8 | 64.0 | 16.4 | 73.3 | 81.6 | 70.4 | 81.8 | 97.1 | 73.9 |

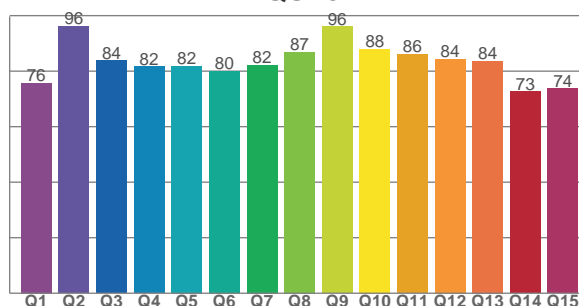
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.2 | 79.7 | 73.4 | 80.3 | 85.8 | 87.2 | 77.5 | 88.8 | 85.2 | 83.7 | 80.9 | 82.9 | 87.6 | 82.2 | 79.2 | 79.7 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 75.8 | 96.2 | 83.8 | 81.7 | 81.8 | 80.0 | 82.2 | 86.9 | 96.1 | 88.0 | 86.1 | 84.3 | 83.6 | 72.7 | 73.8 |

CQS: 82.1



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 |
| 2869 K | 82.7 | 16.4 | 81.9 | 98.6 | 82.1 | 0.450 | 0.413 | 0.255 | 0.351 | 0.0018 |

TM30 Details

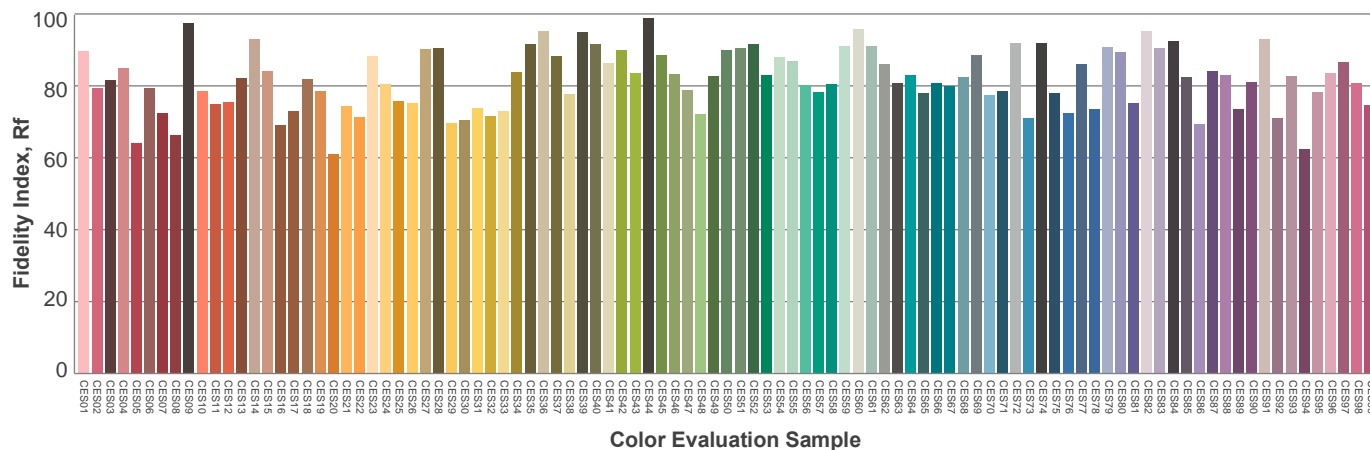
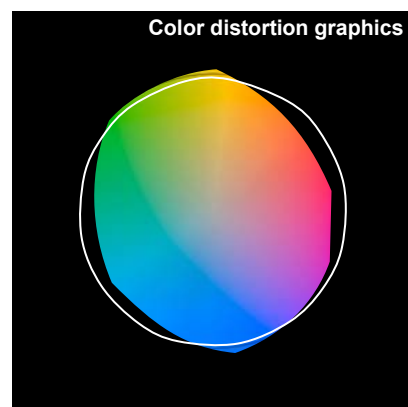
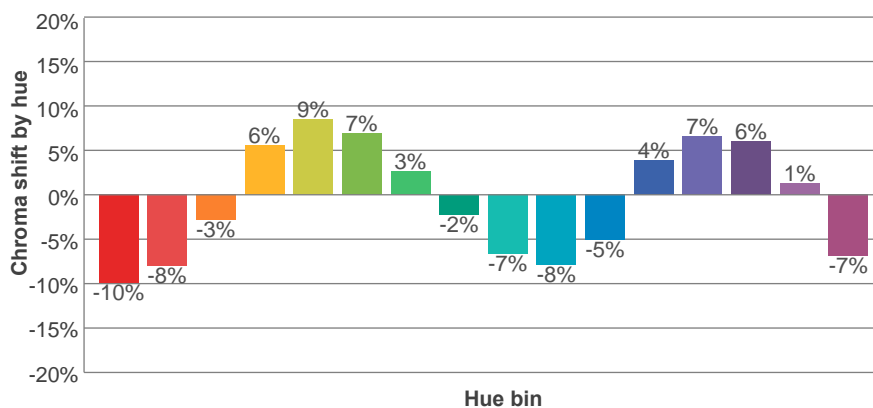
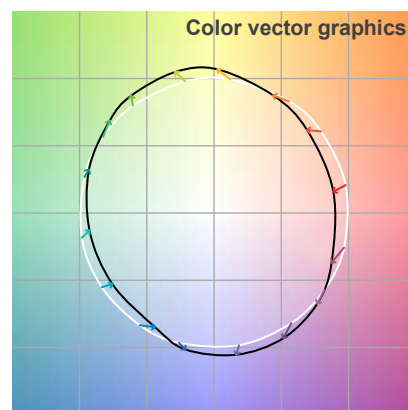
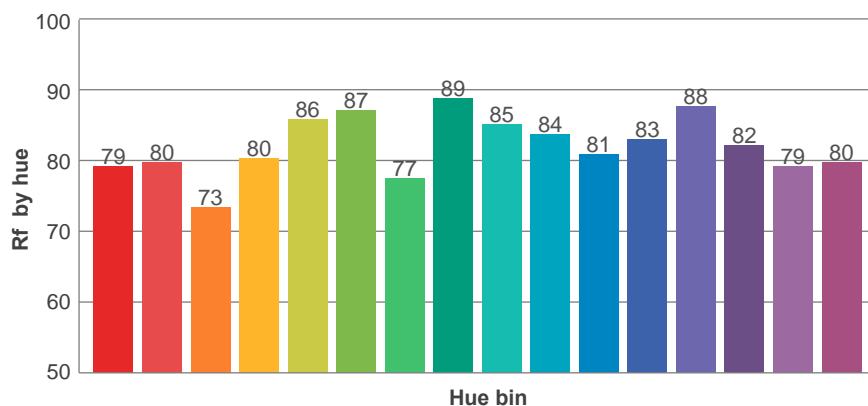
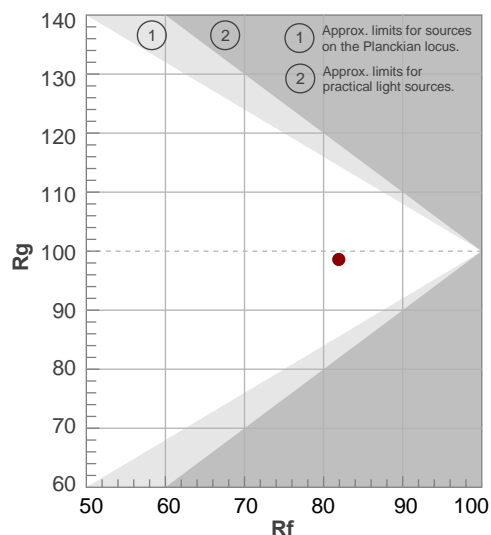
Rf 81.9

Fidelity index Rf

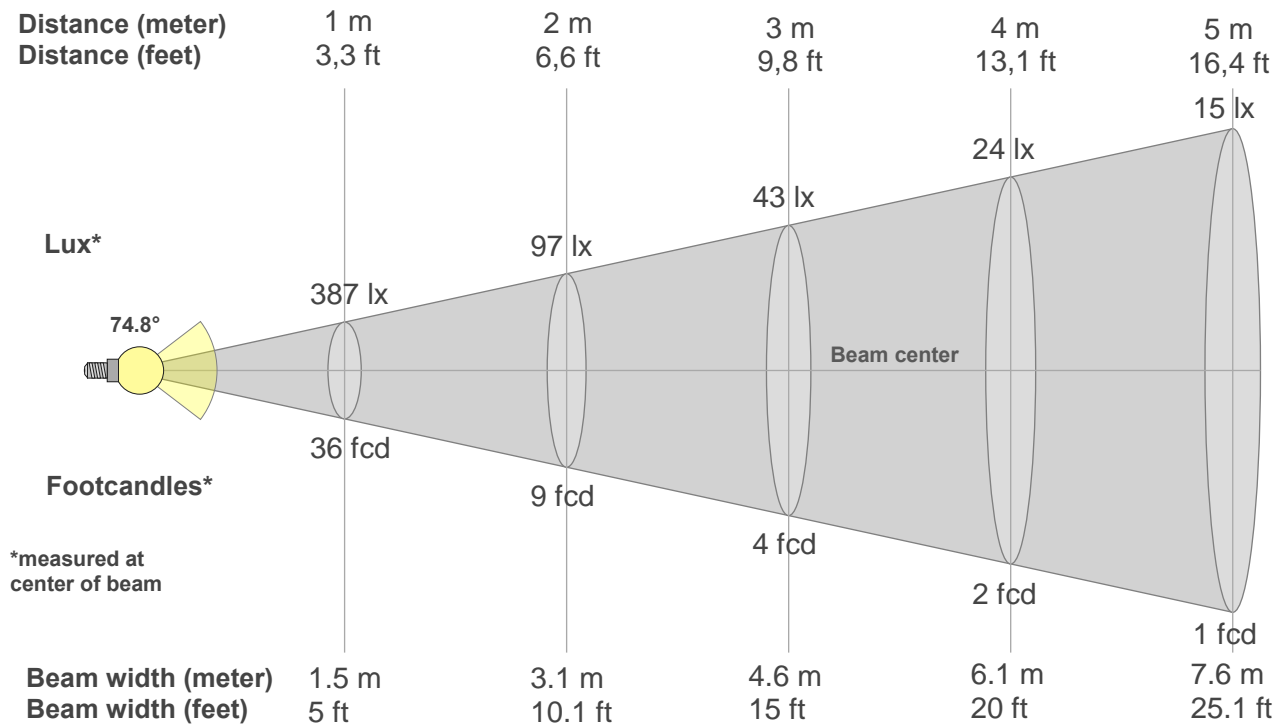
Rg 98.6

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 79 | -10% | -3% |
| 2 | 80 | -8% | 7% |
| 3 | 73 | -3% | 12% |
| 4 | 80 | 6% | 11% |
| 5 | 86 | 9% | 6% |
| 6 | 87 | 7% | -3% |
| 7 | 77 | 3% | -13% |
| 8 | 89 | -2% | -6% |
| 9 | 85 | -7% | -4% |
| 10 | 84 | -8% | 2% |
| 11 | 81 | -5% | 10% |
| 12 | 83 | 4% | 6% |
| 13 | 88 | 7% | -3% |
| 14 | 82 | 6% | -11% |
| 15 | 79 | 1% | -11% |
| 16 | 80 | -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 |
| 387lx | 97lx | 43lx | 24lx | 15lx | 11lx | 8lx | 6lx | 5lx | 4lx | 3lx | 3lx | 2lx | 2lx | 2lx | 2lx | 1lx | 1lx | 1lx | 1lx |
| 35.9fcd | 9fcd | 4fcd | 2.2fcd | 1.4fcd | 1fcd | 0.7fcd | 0.6fcd | 0.4fcd | 0.4fcd | 0.3fcd | 0.2fcd | 0.2fcd | 0.2fcd | 0.2fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0.1fcd |

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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 387 | 383 | 371 | 351 | 323 | 289 | 252 | 212 | 174 | 134 | 94 | 61 | 38 | 22 | 10 | 4 | 2 | 1 | 1 | 1 |
| 100% | 99% | 96% | 91% | 84% | 75% | 65% | 55% | 45% | 35% | 24% | 16% | 10% | 6% | 3% | 1% | 1% | 0% | 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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 387 | 383 | 371 | 351 | 323 | 289 | 252 | 212 | 174 | 134 | 94 | 61 | 38 | 22 | 10 | 4 | 2 | 1 | 1 | 1 |
| 100% | 99% | 96% | 91% | 84% | 75% | 65% | 55% | 45% | 35% | 24% | 16% | 10% | 6% | 3% | 1% | 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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 387 | 383 | 371 | 351 | 323 | 289 | 252 | 212 | 174 | 134 | 94 | 61 | 38 | 22 | 10 | 4 | 2 | 1 | 1 | 1 |
| 100% | 99% | 96% | 91% | 84% | 75% | 65% | 55% | 45% | 35% | 24% | 16% | 10% | 6% | 3% | 1% | 1% | 0% | 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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 387 | 383 | 371 | 351 | 323 | 289 | 252 | 212 | 174 | 134 | 94 | 61 | 38 | 22 | 10 | 4 | 2 | 1 | 1 | 1 |
| 100% | 99% | 96% | 91% | 84% | 75% | 65% | 55% | 45% | 35% | 24% | 16% | 10% | 6% | 3% | 1% | 1% | 0% | 0% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 74.8° | 119.9° | 140.7° | 94.7% | 77.6% |