

Light efficiency:

70 Lumen/Watt

Light quality:

CRI: 83.2

Color temperature:

2958 K

Output: 880 lm

Peak: 584 cd

Power: 12.5 W

PF: 0.96

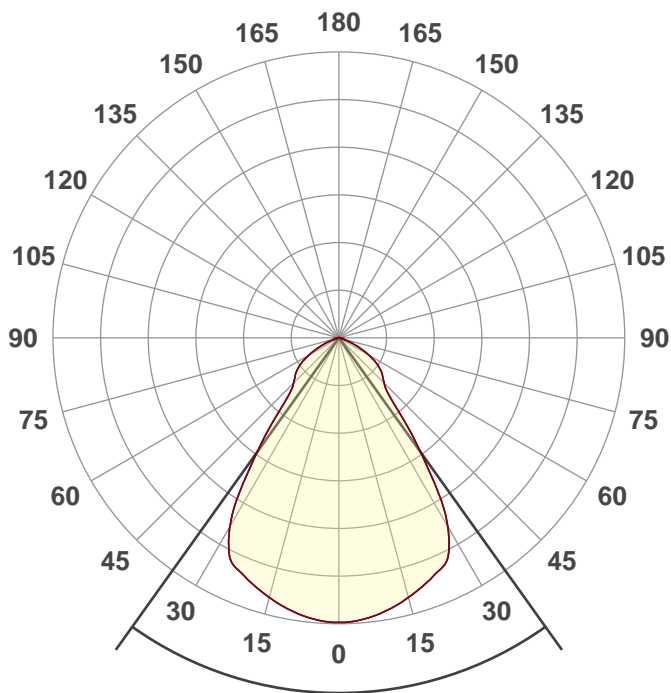


Product name:

608RA-4-XTM19-13LM-30K-83-WH70-120-ELV-BK-BK-P

Date and time:

1/26/2019 11:20:18 AM



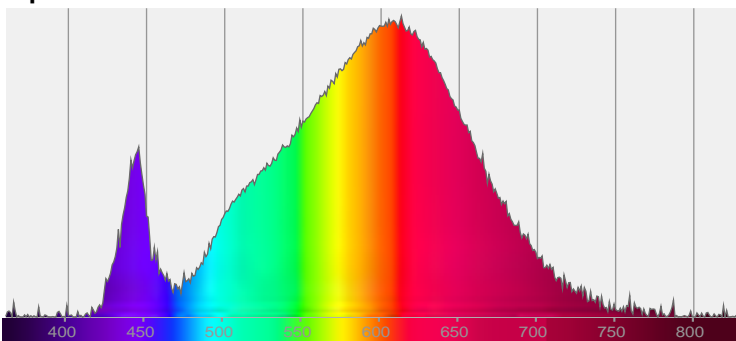
Beam angle

71.1°

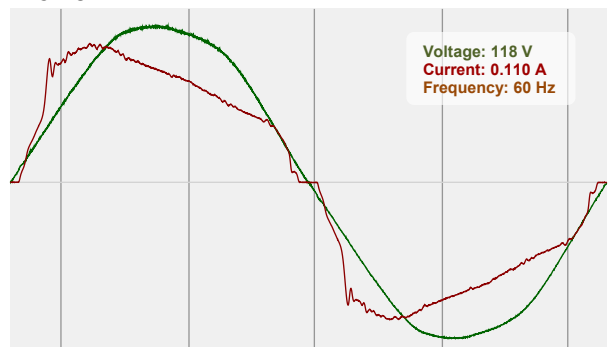


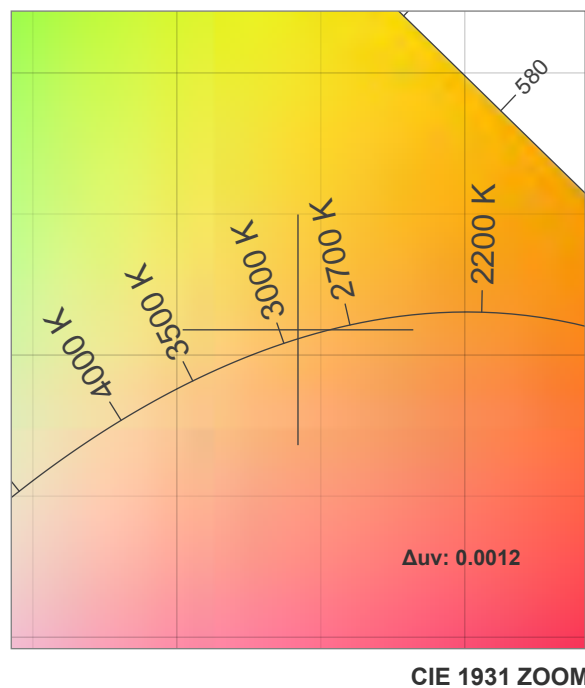
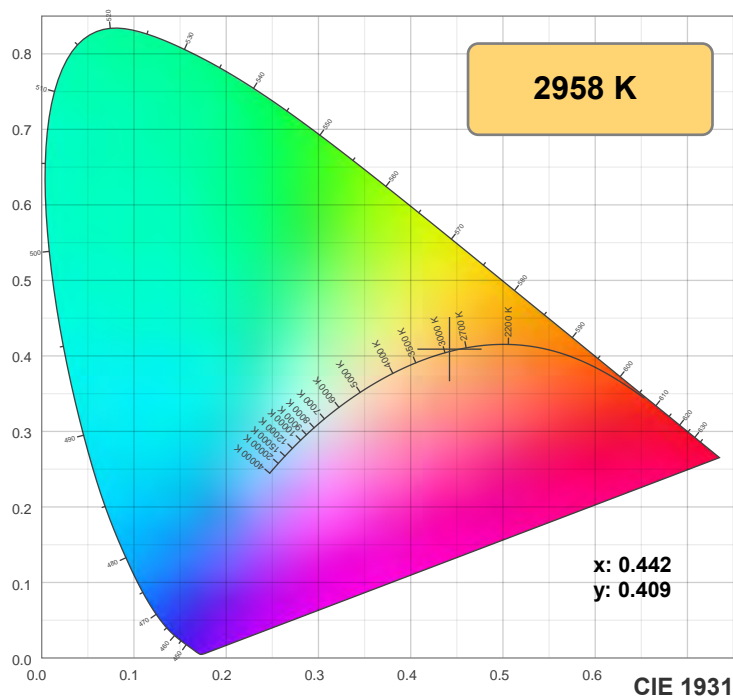
CIE 1931
x: 0.442
y: 0.409

Spectra

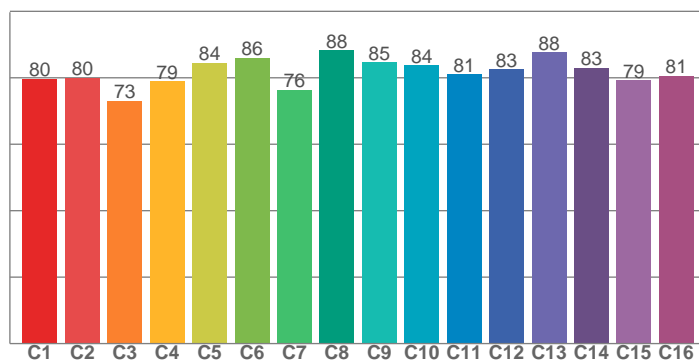


Power

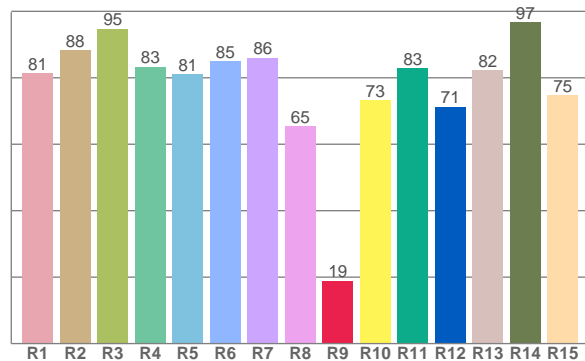




TM30: 81.6



CRI: 83.2 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 81.4 | 88.2 | 94.8 | 83.4 | 81.1 | 85.0 | 86.0 | 65.4 | 18.9 | 73.3 | 82.8 | 71.2 | 82.4 | 96.7 | 74.8 |

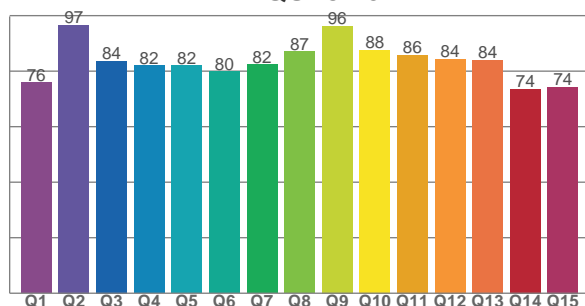
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.7 | 80.0 | 73.0 | 78.9 | 84.5 | 86.0 | 76.4 | 88.2 | 84.6 | 83.7 | 81.0 | 82.6 | 87.7 | 83.0 | 79.2 | 80.6 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 75.9 | 96.7 | 83.6 | 82.0 | 82.0 | 79.9 | 82.3 | 87.1 | 96.3 | 87.6 | 85.9 | 84.4 | 83.9 | 73.5 | 74.3 |

CQS: 82.3



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 |
| 2958 K | 83.2 | 18.9 | 81.6 | 99.3 | 82.3 | 0.442 | 0.409 | 0.252 | 0.349 | 0.0012 |

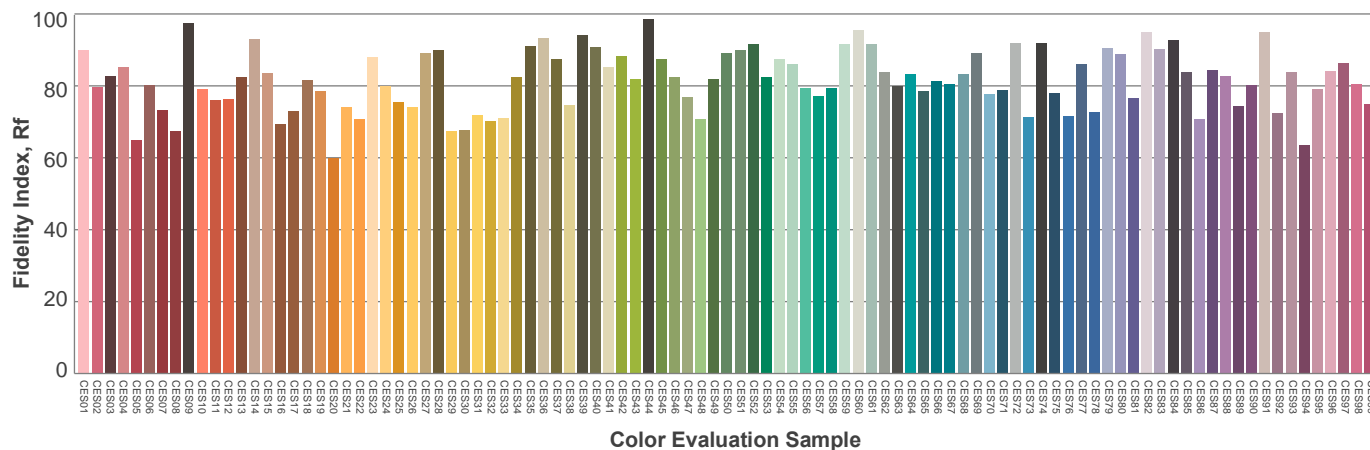
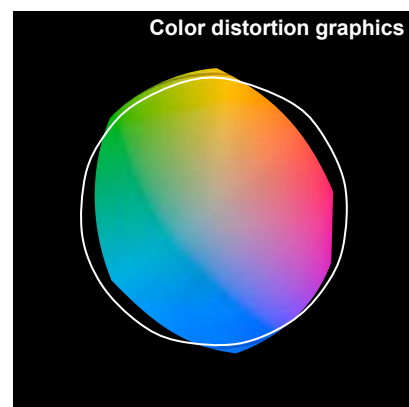
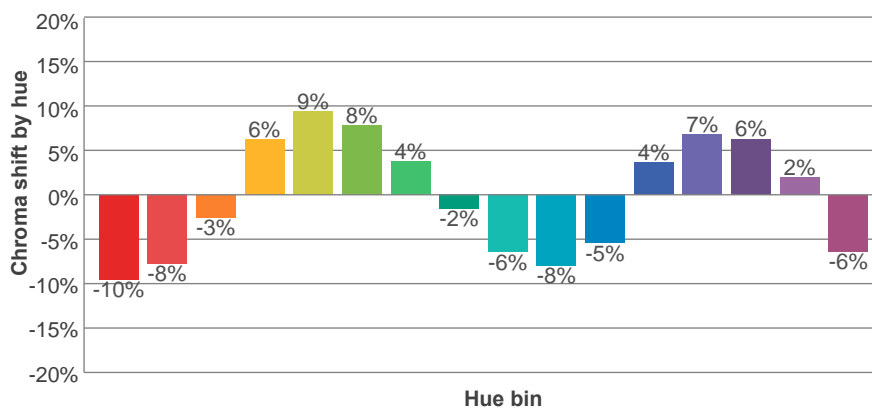
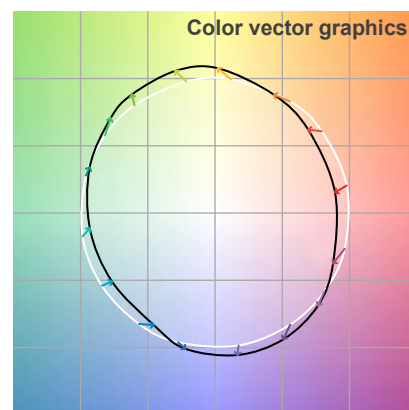
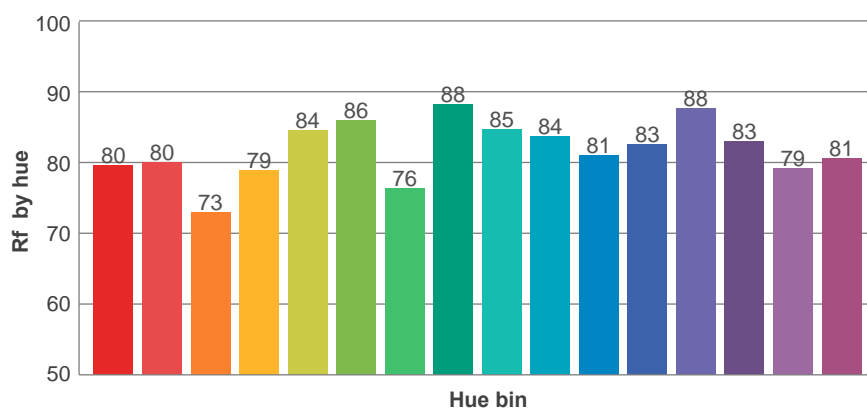
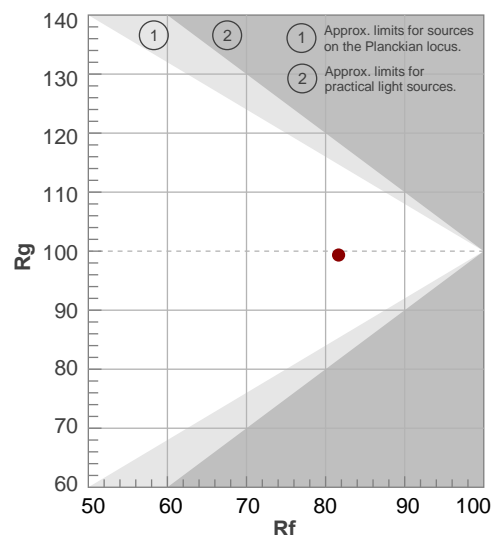
Rf 81.6

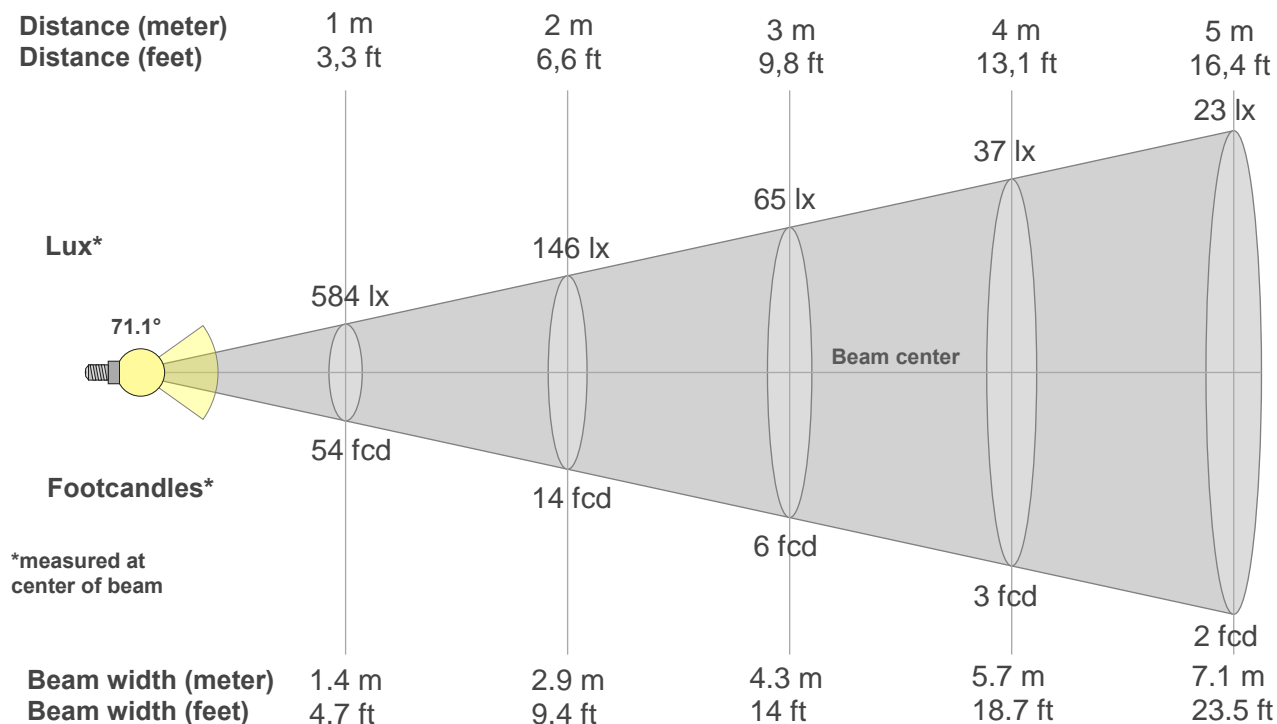
Fidelity index Rf

Rg 99.3

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 80 | -10% | -3% |
| 2 | 80 | -8% | 7% |
| 3 | 73 | -3% | 13% |
| 4 | 79 | 6% | 11% |
| 5 | 84 | 9% | 6% |
| 6 | 86 | 8% | -3% |
| 7 | 76 | 4% | -13% |
| 8 | 88 | -2% | -7% |
| 9 | 85 | -6% | -5% |
| 10 | 84 | -8% | 2% |
| 11 | 81 | -5% | 10% |
| 12 | 83 | 4% | 6% |
| 13 | 88 | 7% | -2% |
| 14 | 83 | 6% | -10% |
| 15 | 79 | 2% | -11% |
| 16 | 81 | -6% | -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 |
| 584lx | 146lx | 65lx | 37lx | 23lx | 16lx | 12lx | 9lx | 7lx | 6lx | 5lx | 4lx | 3lx | 3lx | 3lx | 2lx | 2lx | 2lx | 2lx | 1lx |
| 54.3fcd | 13.6fcd | 6fcd | 3.4fcd | 2.2fcd | 1.5fcd | 1.1fcd | 0.8fcd | 0.7fcd | 0.5fcd | 0.4fcd | 0.4fcd | 0.3fcd | 0.3fcd | 0.2fcd | 0.2fcd | 0.2fcd | 0.2fcd | 0.2fcd | 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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 584 | 580 | 569 | 552 | 533 | 509 | 441 | 309 | 185 | 134 | 116 | 97 | 71 | 44 | 19 | 4 | 1 | 1 | 1 | 1 |
| 100% | 99% | 97% | 95% | 91% | 87% | 75% | 53% | 32% | 23% | 20% | 17% | 12% | 7% | 3% | 1% | 0% | 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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 584 | 580 | 569 | 552 | 533 | 509 | 441 | 309 | 185 | 134 | 116 | 97 | 71 | 44 | 19 | 4 | 1 | 1 | 1 | 1 |
| 100% | 99% | 97% | 95% | 91% | 87% | 75% | 53% | 32% | 23% | 20% | 17% | 12% | 7% | 3% | 1% | 0% | 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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 584 | 580 | 569 | 552 | 533 | 509 | 441 | 309 | 185 | 134 | 116 | 97 | 71 | 44 | 19 | 4 | 1 | 1 | 1 | 1 |
| 100% | 99% | 97% | 95% | 91% | 87% | 75% | 53% | 32% | 23% | 20% | 17% | 12% | 7% | 3% | 1% | 0% | 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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 584 | 580 | 569 | 552 | 533 | 509 | 441 | 309 | 185 | 134 | 116 | 97 | 71 | 44 | 19 | 4 | 1 | 1 | 1 | 1 |
| 100% | 99% | 97% | 95% | 91% | 87% | 75% | 53% | 32% | 23% | 20% | 17% | 12% | 7% | 3% | 1% | 0% | 0% | 0% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 71.1° | 124.7° | 142.7° | 93.9% | 78.5% |