

Light efficiency:

73 Lumen/Watt

Light quality:

CRI: 83.4

Color temperature:

2940 K

Output: 910 lm

Peak: 1299 cd

Power: 12.5 W

PF: 0.96

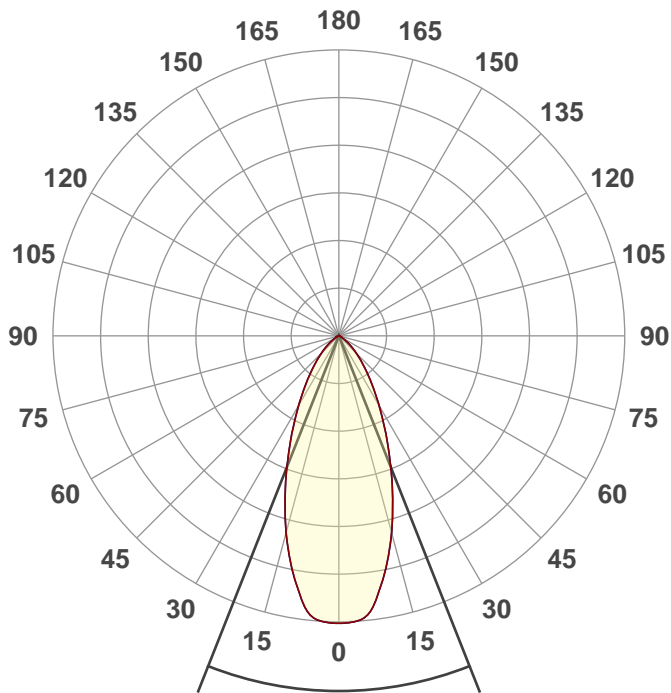


Product name:

608RA-4-XTM19-13LM-30K-83-HE40-120-ELV-BK-BK-P

Date and time:

1/26/2019 11:29:53 AM



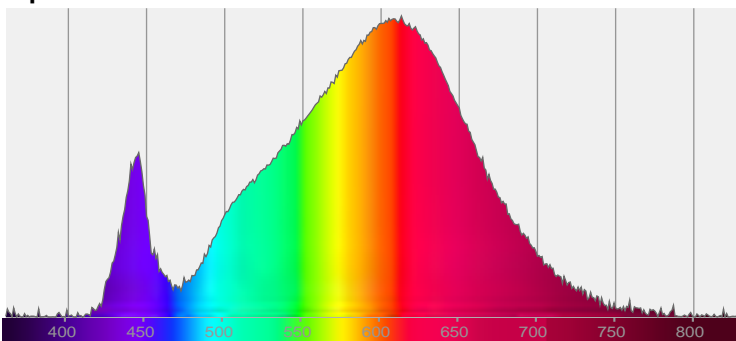
Beam angle

43.2°

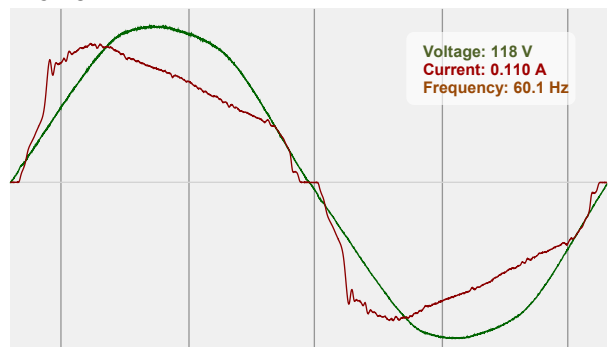


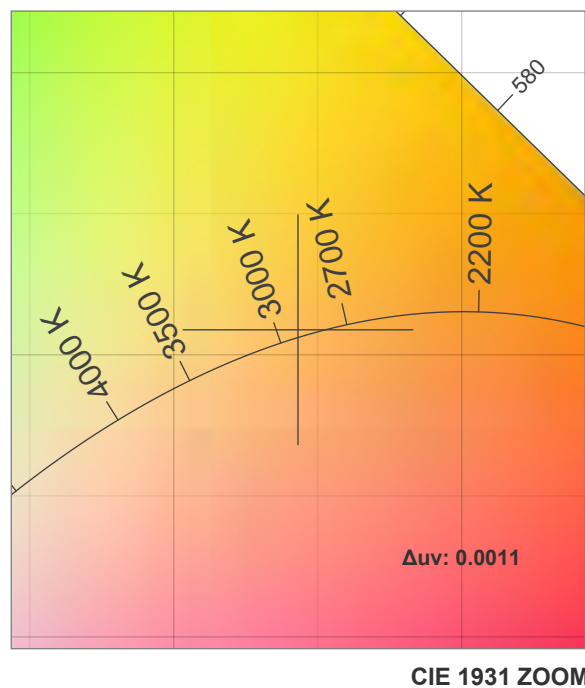
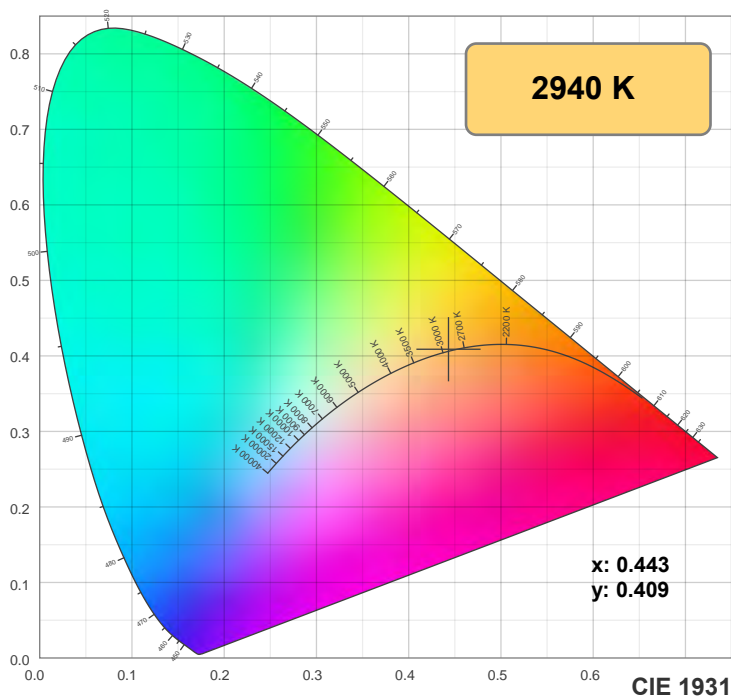
CIE 1931
x: 0.443
y: 0.409

Spectra

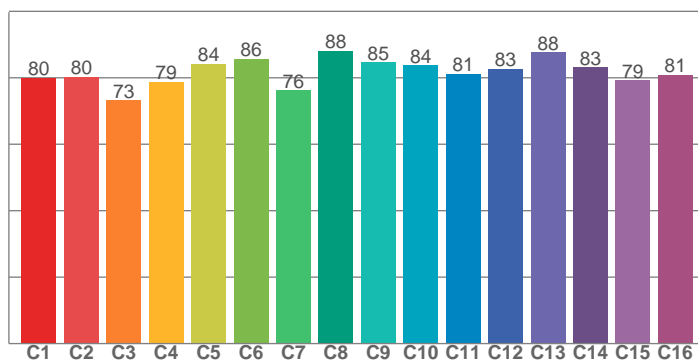


Power

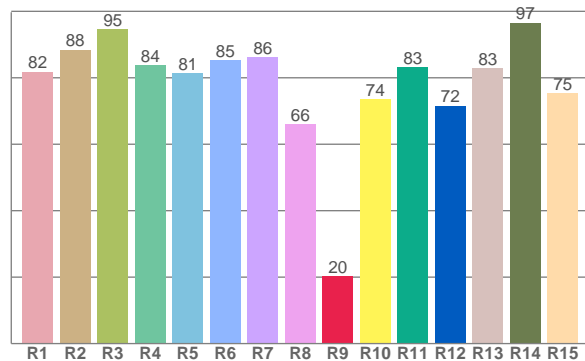




TM30: 81.7



CRI: 83.4 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 81.8 | 88.4 | 94.6 | 83.7 | 81.4 | 85.3 | 86.2 | 66.0 | 20.3 | 73.6 | 83.3 | 71.6 | 82.8 | 96.6 | 75.3 |

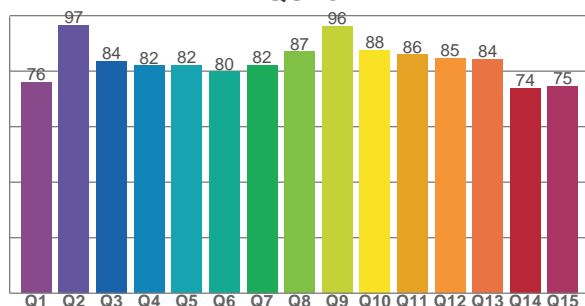
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.9 | 80.3 | 73.1 | 78.7 | 84.2 | 85.7 | 76.1 | 88.0 | 84.6 | 83.8 | 81.2 | 82.6 | 87.6 | 83.1 | 79.3 | 80.9 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 76.0 | 96.6 | 83.6 | 82.1 | 82.1 | 79.9 | 82.3 | 87.0 | 96.3 | 87.6 | 85.9 | 84.6 | 84.2 | 74.0 | 74.6 |

CQS: 82.4



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 |
| 2940 K | 83.4 | 20.3 | 81.7 | 99.6 | 82.4 | 0.443 | 0.409 | 0.253 | 0.349 | 0.0011 |

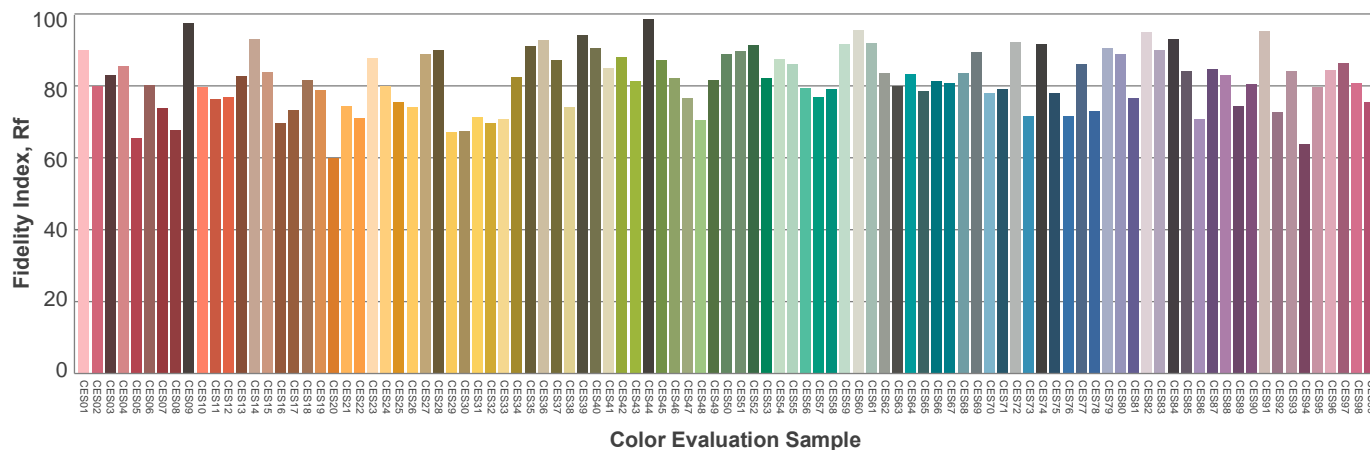
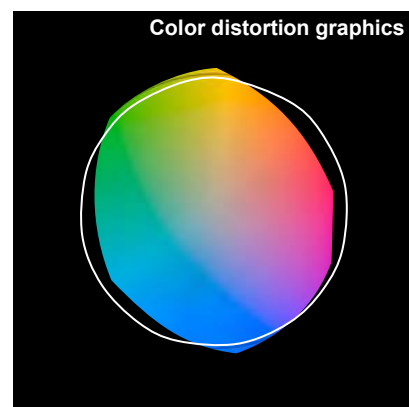
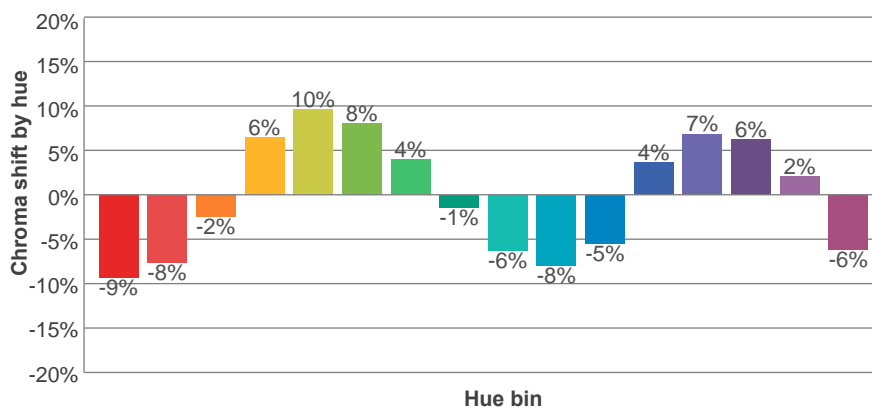
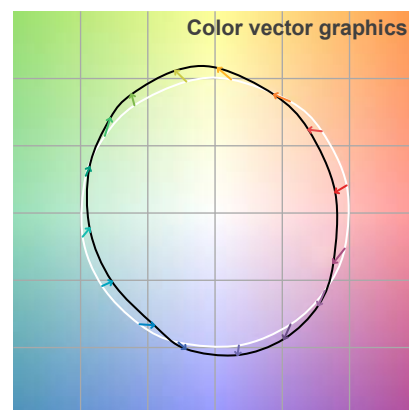
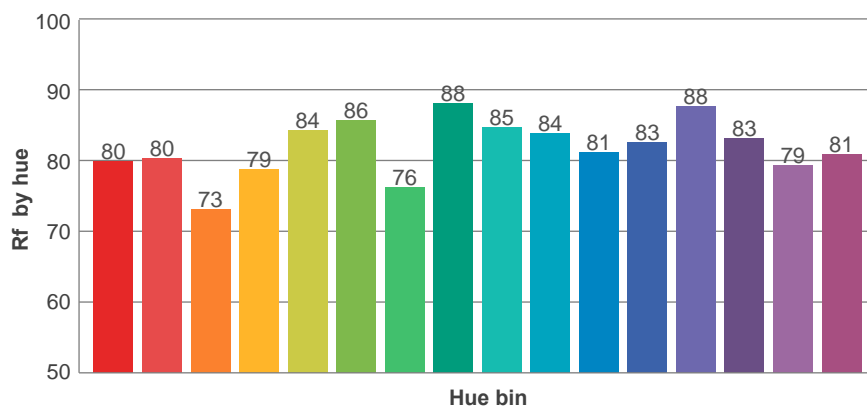
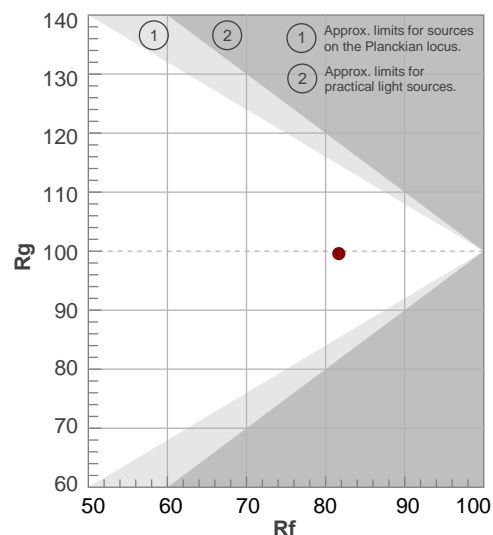
Rf 81.7

Fidelity index Rf

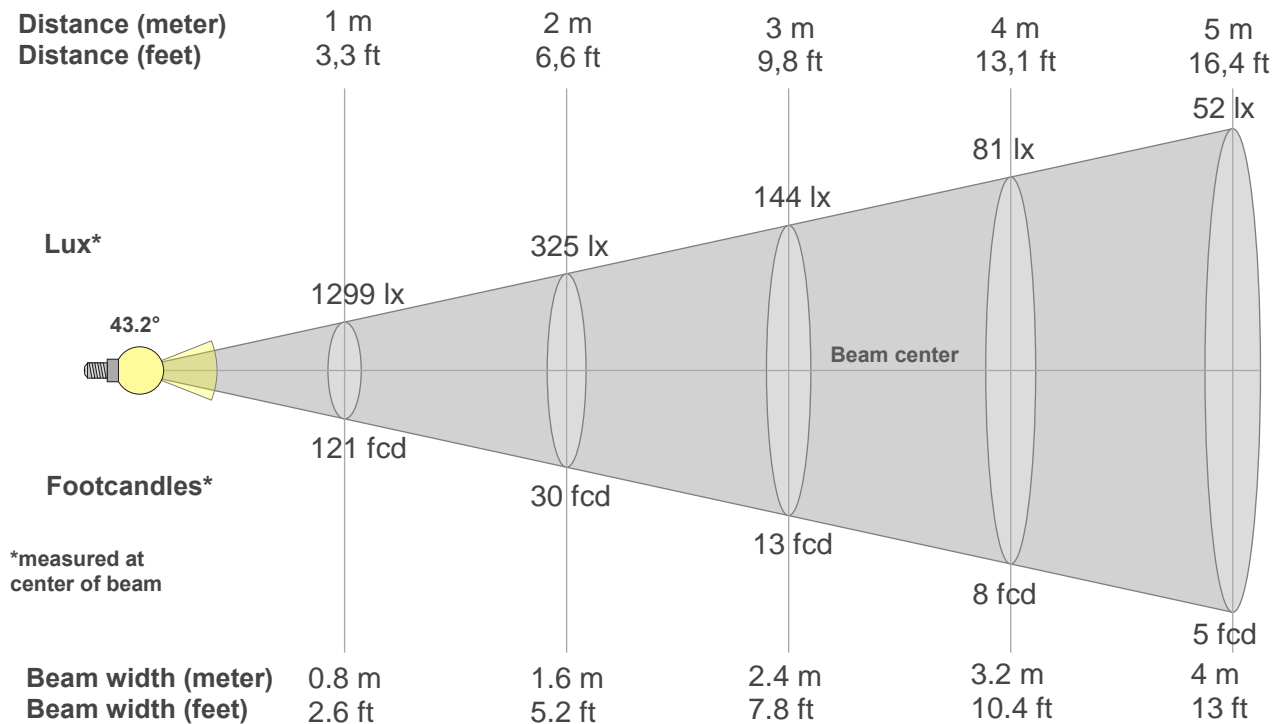
Rg 99.6

Gammut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 80 | -9% | -3% |
| 2 | 80 | -8% | 7% |
| 3 | 73 | -2% | 13% |
| 4 | 79 | 6% | 11% |
| 5 | 84 | 10% | 7% |
| 6 | 86 | 8% | -3% |
| 7 | 76 | 4% | -13% |
| 8 | 88 | -1% | -7% |
| 9 | 85 | -6% | -5% |
| 10 | 84 | -8% | 1% |
| 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 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 |
| 1299lx | 325lx | 144lx | 81lx | 52lx | 36lx | 27lx | 20lx | 16lx | 13lx | 11lx | 9lx | 8lx | 7lx | 6lx | 5lx | 4lx | 4lx | 4lx | 3lx |
| 120.7fcd | 30.2fcd | 13.4fcd | 7.5fcd | 4.8fcd | 3.4fcd | 2.5fcd | 1.9fcd | 1.5fcd | 1.2fcd | 1fcd | 0.8fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.5fcd | 0.4fcd | 0.4fcd | 0.3fcd | 0.3fcd |

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° |
|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1299 | 1299 | 1299 | 1261 | 1202 | 1139 | 1057 | 974 | 887 | 798 | 712 | 633 | 554 | 489 | 426 | 369 | 322 | 275 | 240 | 205 |
| 100% | 100% | 100% | 97% | 93% | 88% | 81% | 75% | 68% | 61% | 55% | 49% | 43% | 38% | 33% | 28% | 25% | 21% | 18% | 16% |

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° |
|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1299 | 1299 | 1299 | 1261 | 1202 | 1139 | 1057 | 974 | 887 | 798 | 712 | 633 | 554 | 489 | 426 | 369 | 322 | 275 | 240 | 205 |
| 100% | 100% | 100% | 97% | 93% | 88% | 81% | 75% | 68% | 61% | 55% | 49% | 43% | 38% | 33% | 28% | 25% | 21% | 18% | 16% |

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° |
|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1299 | 1299 | 1299 | 1261 | 1202 | 1139 | 1057 | 974 | 887 | 798 | 712 | 633 | 554 | 489 | 426 | 369 | 322 | 275 | 240 | 205 |
| 100% | 100% | 100% | 97% | 93% | 88% | 81% | 75% | 68% | 61% | 55% | 49% | 43% | 38% | 33% | 28% | 25% | 21% | 18% | 16% |

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° |
|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1299 | 1299 | 1299 | 1261 | 1202 | 1139 | 1057 | 974 | 887 | 798 | 712 | 633 | 554 | 489 | 426 | 369 | 322 | 275 | 240 | 205 |
| 100% | 100% | 100% | 97% | 93% | 88% | 81% | 75% | 68% | 61% | 55% | 49% | 43% | 38% | 33% | 28% | 25% | 21% | 18% | 16% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 43.2° | 87° | 112° | 98.7% | 90.9% |