

Light efficiency:

41 Lumen/Watt

Light quality:

CRI: 83.8

Color temperature:

2894 K

Output: 1496 lm

Peak: 1424 cd

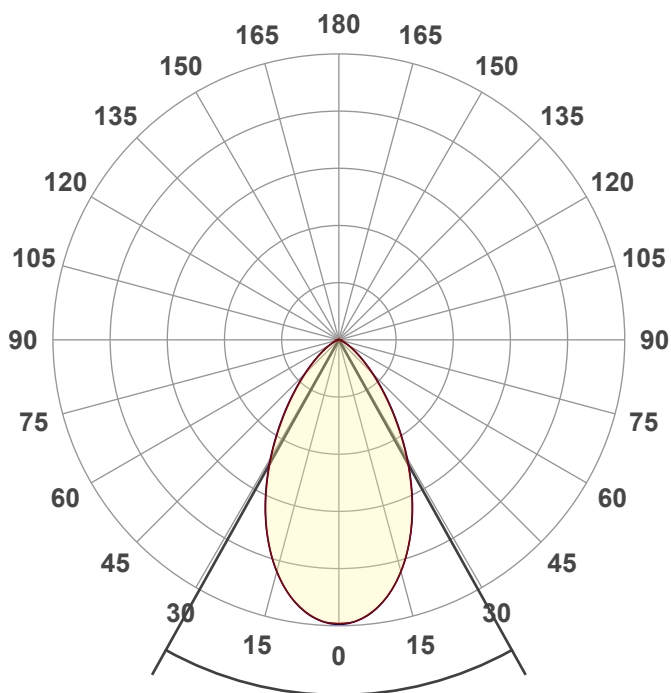
Power: 36.1 W

PF: 0.98



NU3-RA-XTM09-20LM-30K-83-55D-NA-DL-WH-WH

Date and time:
6/3/2022 8:27:15 AM



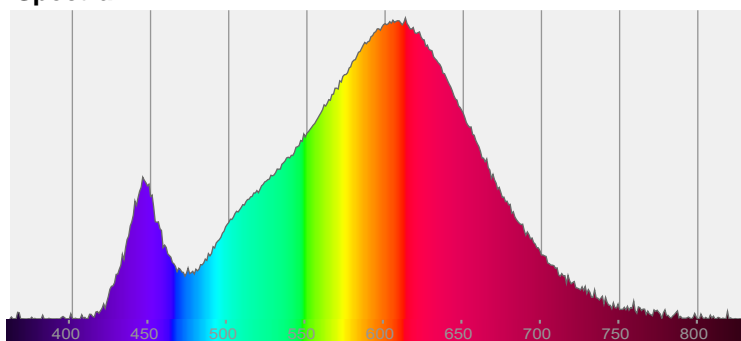
Beam angle

58.3°

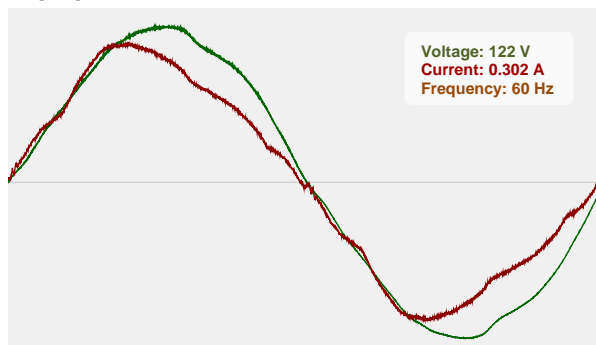


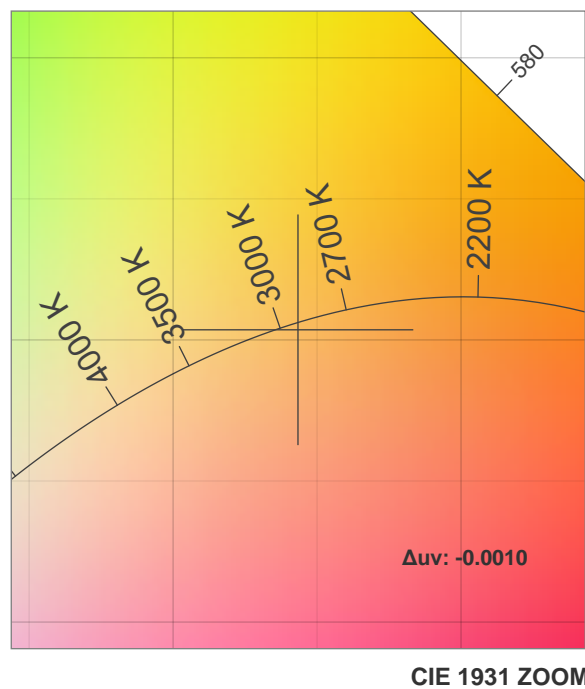
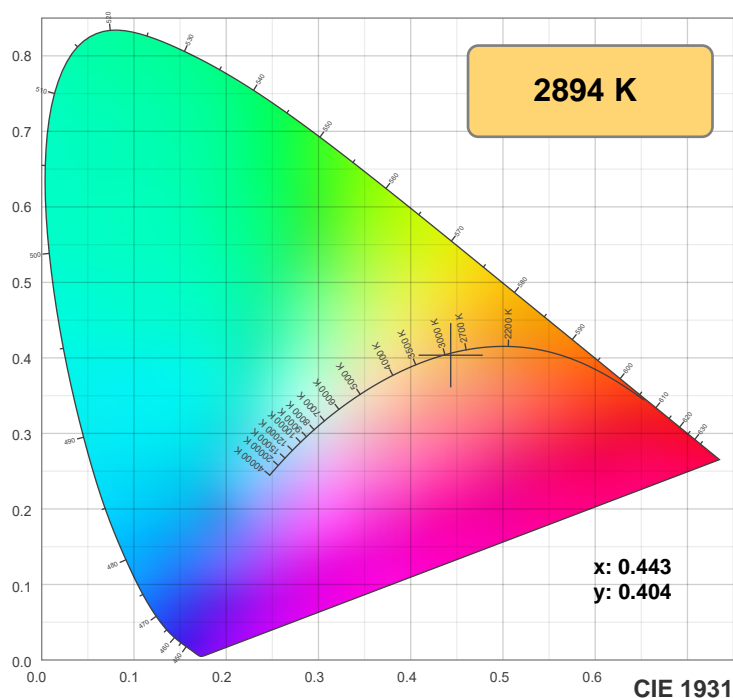
CIE 1931
x: 0.443
y: 0.404

Spectra

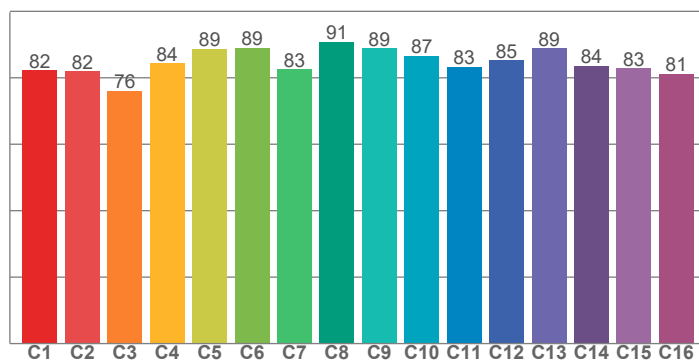


Power

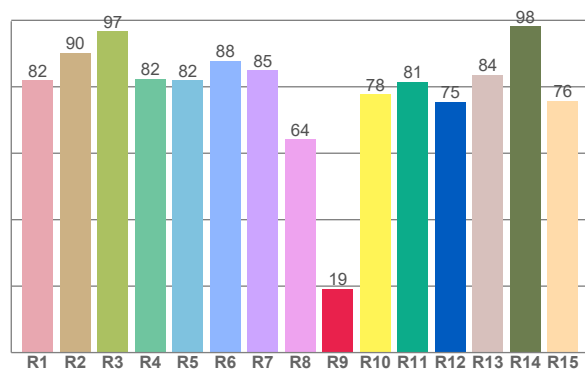




TM30: 84.6



CRI: 83.8 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 82.0 | 90.2 | 96.7 | 82.5 | 82.0 | 87.8 | 84.9 | 64.2 | 19.2 | 77.8 | 81.5 | 75.5 | 83.7 | 98.2 | 75.8 |

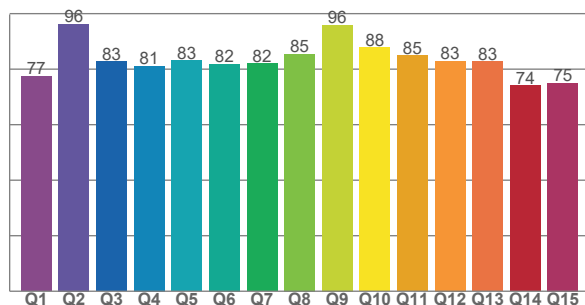
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 82.2 | 81.9 | 76.1 | 84.4 | 88.7 | 89.0 | 82.6 | 90.8 | 88.8 | 86.7 | 83.2 | 85.2 | 88.9 | 83.6 | 82.8 | 81.1 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 77.4 | 96.2 | 82.8 | 81.2 | 83.0 | 81.9 | 82.0 | 85.4 | 95.9 | 87.8 | 84.8 | 82.9 | 82.8 | 74.1 | 75.0 |

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 |
| 2894 K | 83.8 | 19.2 | 84.6 | 98.8 | 82.3 | 0.443 | 0.404 | 0.255 | 0.348 | -0.0010 |

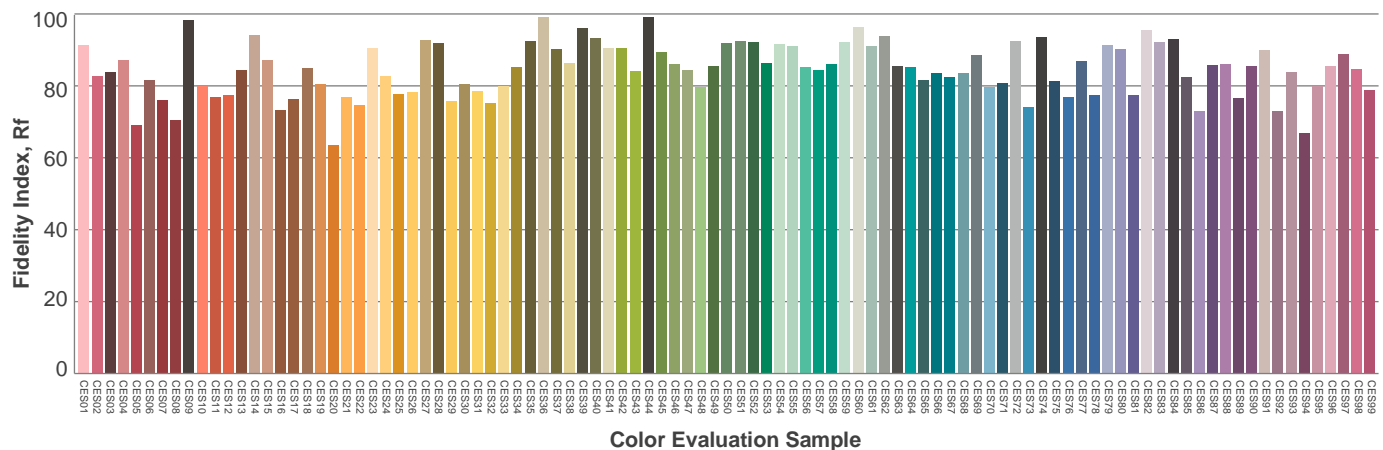
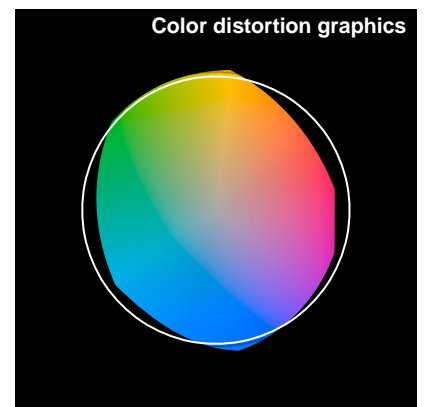
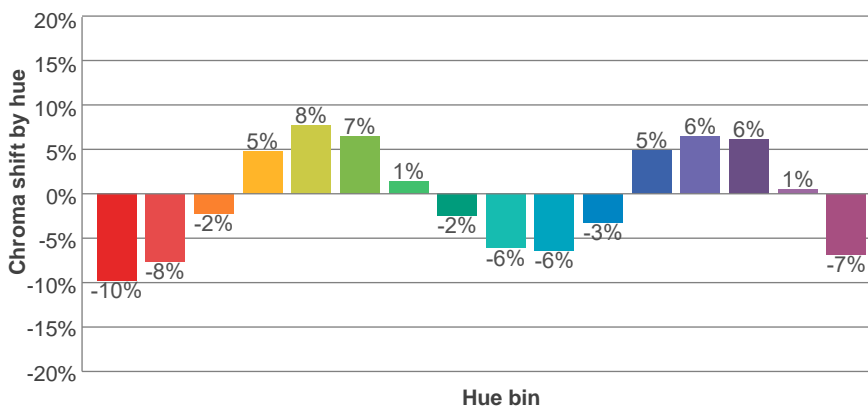
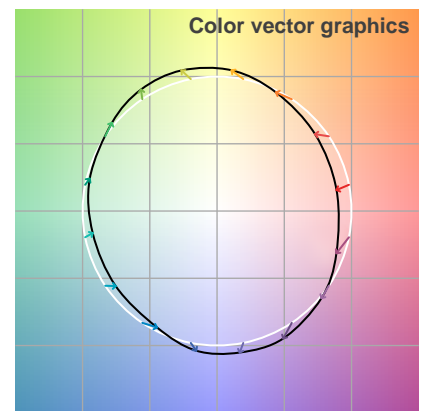
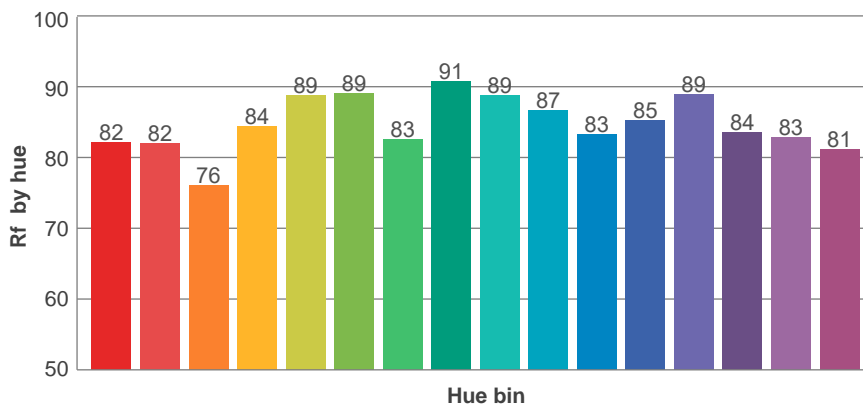
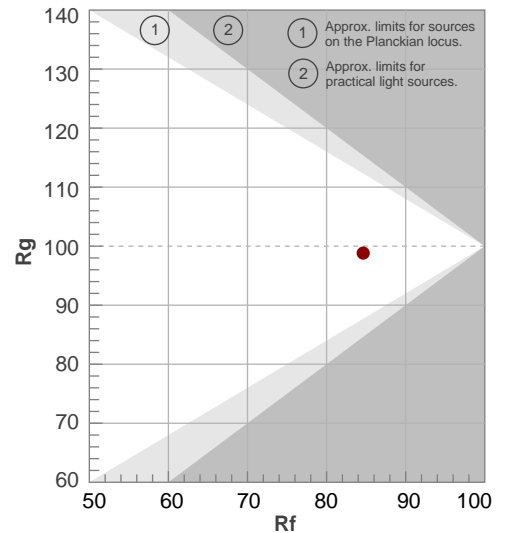
Rf 84.6

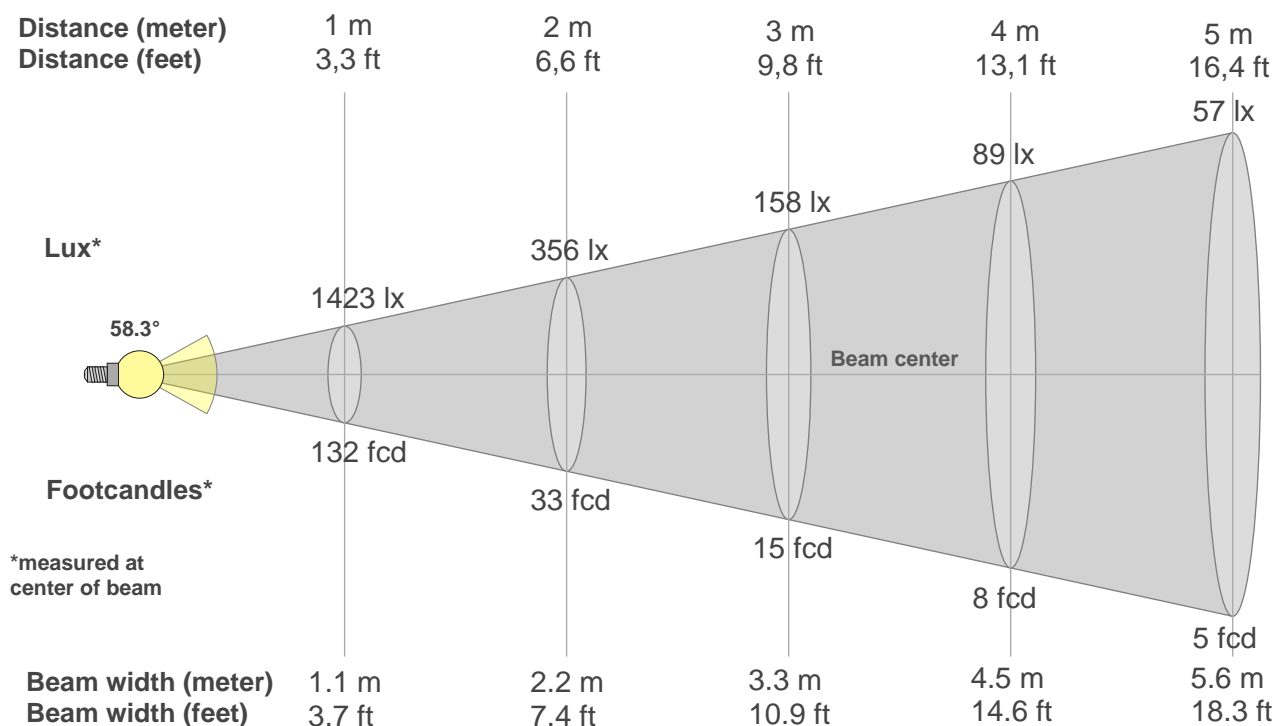
Fidelity index Rf

Rg 98.8

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 82 | -10% | -2% |
| 2 | 82 | -8% | 7% |
| 3 | 76 | -2% | 13% |
| 4 | 84 | 5% | 10% |
| 5 | 89 | 8% | 6% |
| 6 | 89 | 7% | -3% |
| 7 | 83 | 1% | -11% |
| 8 | 91 | -2% | -5% |
| 9 | 89 | -6% | -2% |
| 10 | 87 | -6% | 5% |
| 11 | 83 | -3% | 11% |
| 12 | 85 | 5% | 5% |
| 13 | 89 | 6% | -4% |
| 14 | 84 | 6% | -12% |
| 15 | 83 | 1% | -11% |
| 16 | 81 | -7% | -13% |





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 |
| 1423lx | 356lx | 158lx | 89lx | 57lx | 40lx | 29lx | 22lx | 18lx | 14lx | 12lx | 10lx | 8lx | 7lx | 6lx | 6lx | 5lx | 4lx | 4lx | 4lx |
| 132.2fcd | 33.1fcd | 14.7fcd | 8.3fcd | 5.3fcd | 3.7fcd | 2.7fcd | 2.1fcd | 1.6fcd | 1.3fcd | 1.1fcd | 0.9fcd | 0.8fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.5fcd | 0.4fcd | 0.4fcd | 0.3fcd |

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° |
|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1423 | 1396 | 1321 | 1200 | 1045 | 866 | 680 | 503 | 355 | 237 | 153 | 94 | 56 | 31 | 15 | 5 | 2 | 1 | 1 | 1 |
| 100% | 98% | 93% | 84% | 73% | 61% | 48% | 35% | 25% | 17% | 11% | 7% | 4% | 2% | 1% | 0% | 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° |
|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1423 | 1397 | 1321 | 1200 | 1045 | 869 | 685 | 511 | 362 | 244 | 157 | 96 | 57 | 32 | 15 | 4 | 2 | 2 | 1 | 1 |
| 100% | 98% | 93% | 84% | 73% | 61% | 48% | 36% | 25% | 17% | 11% | 7% | 4% | 2% | 1% | 0% | 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° |
|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1423 | 1396 | 1321 | 1200 | 1045 | 866 | 680 | 503 | 355 | 237 | 153 | 94 | 56 | 31 | 15 | 5 | 2 | 1 | 1 | 1 |
| 100% | 98% | 93% | 84% | 73% | 61% | 48% | 35% | 25% | 17% | 11% | 7% | 4% | 2% | 1% | 0% | 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° |
|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1423 | 1397 | 1321 | 1200 | 1045 | 869 | 685 | 511 | 362 | 244 | 157 | 96 | 57 | 32 | 15 | 4 | 2 | 2 | 1 | 1 |
| 100% | 98% | 93% | 84% | 73% | 61% | 48% | 36% | 25% | 17% | 11% | 7% | 4% | 2% | 1% | 0% | 0% | 0% | 0% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 58.3° | 101.8° | 128° | 97.1% | 86.0% |