

Light efficiency:

76 Lumen/Watt

Light quality:

CRI: 80.8

Color temperature:

2961 K

Output: 1362 lm

Peak: 4512 cd

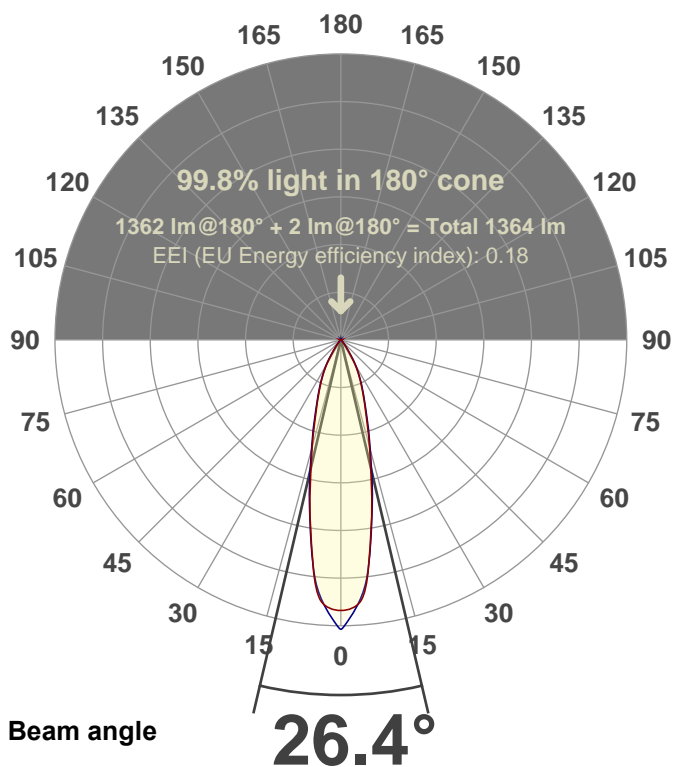
Power: 17.9 W

PF: 0.98



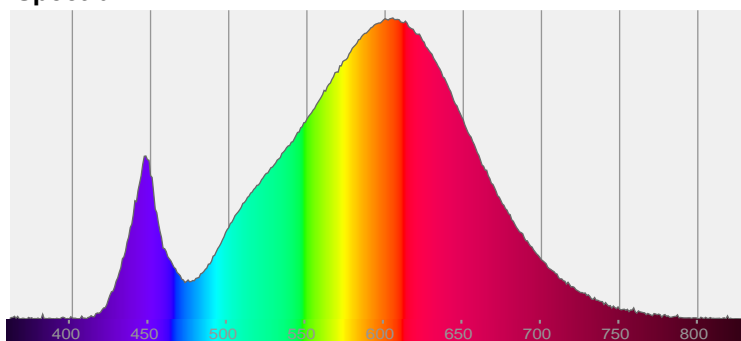
112250-XTM19-20LM-30K-83-SSA20-
UNV-ELV-WH-CLR

Date and time:
12/11/2019 3:29:57 PM

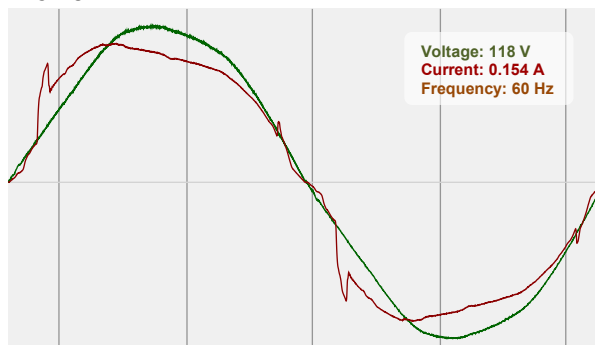


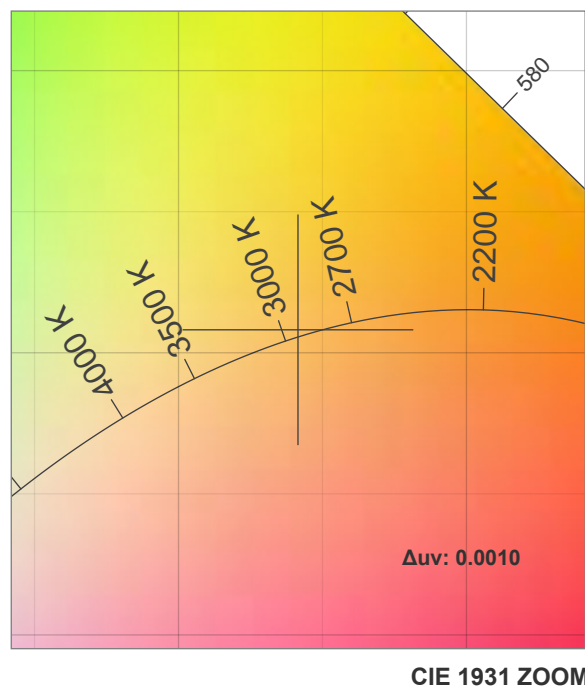
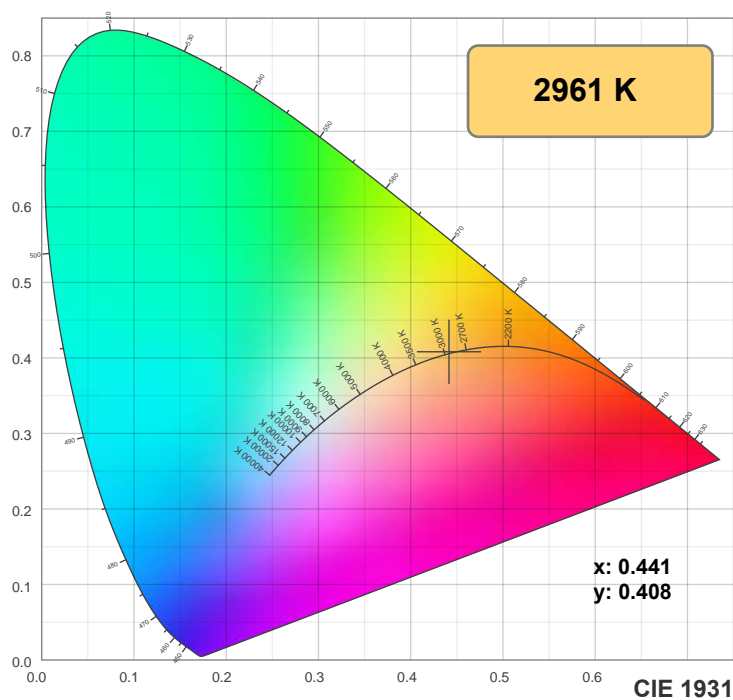
CIE 1931
x: 0.441
y: 0.408

Spectra

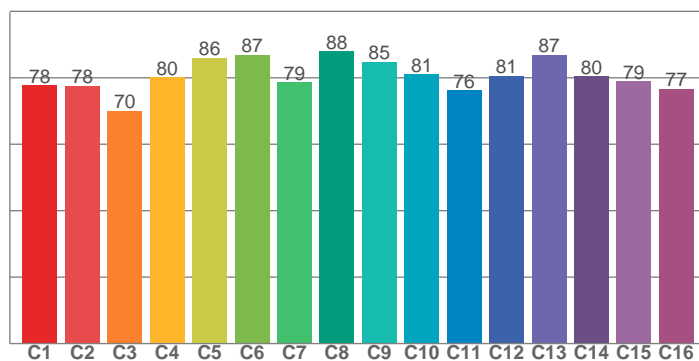


Power

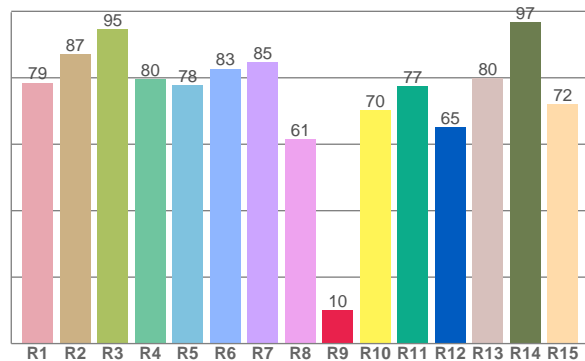




TM30: 80.4



CRI: 80.8 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78.5 | 87.0 | 94.6 | 79.7 | 77.8 | 82.7 | 84.7 | 61.5 | 10.0 | 70.2 | 77.5 | 65.1 | 79.9 | 96.7 | 72.1 |

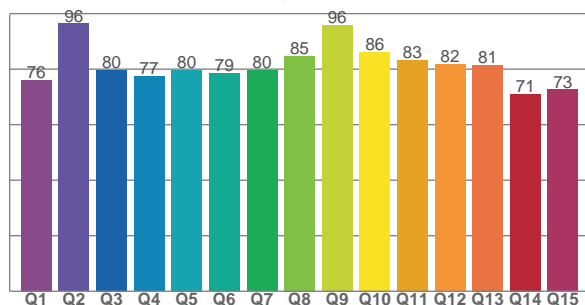
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 77.7 | 77.5 | 70.1 | 80.2 | 86.0 | 86.8 | 78.6 | 87.9 | 84.8 | 81.0 | 76.2 | 80.7 | 86.9 | 80.5 | 79.0 | 76.7 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 76.0 | 96.4 | 79.6 | 77.4 | 79.8 | 78.5 | 79.6 | 84.7 | 95.9 | 86.2 | 83.3 | 81.7 | 81.4 | 71.0 | 72.6 |

CQS: 80.2



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 |
| 2961 K | 80.8 | 10.0 | 80.4 | 97.9 | 80.2 | 0.441 | 0.408 | 0.252 | 0.349 | 0.0010 |

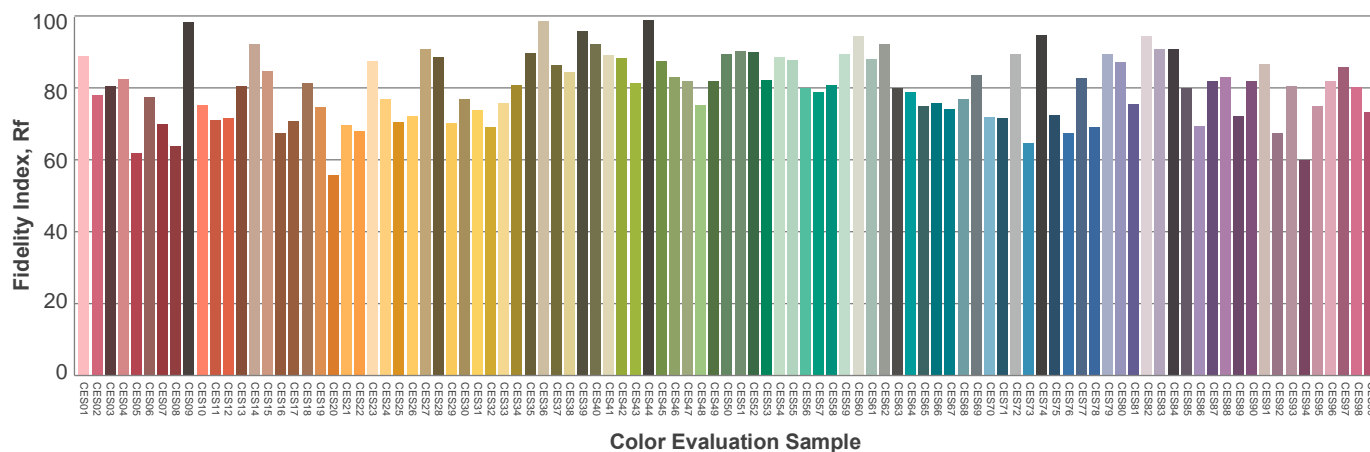
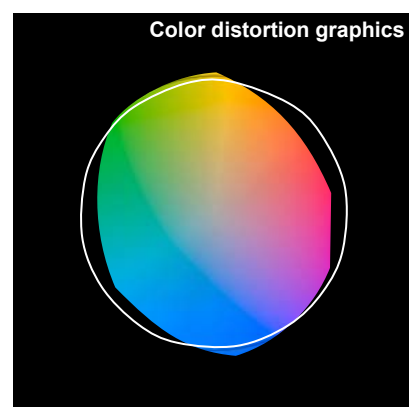
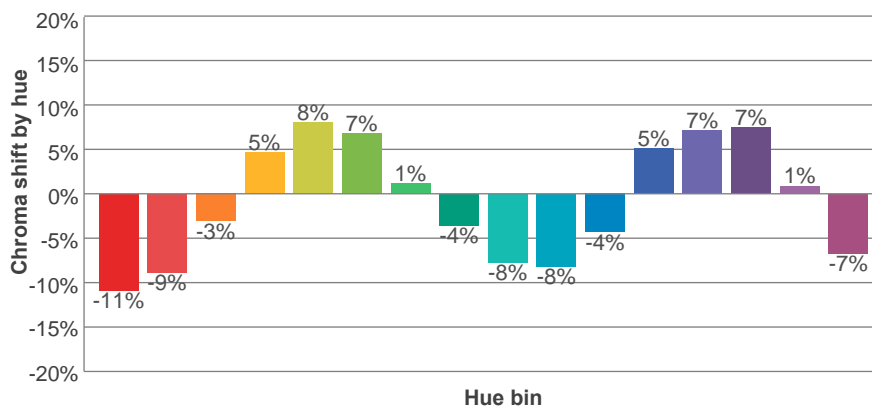
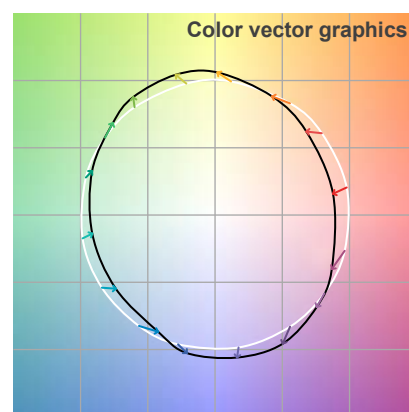
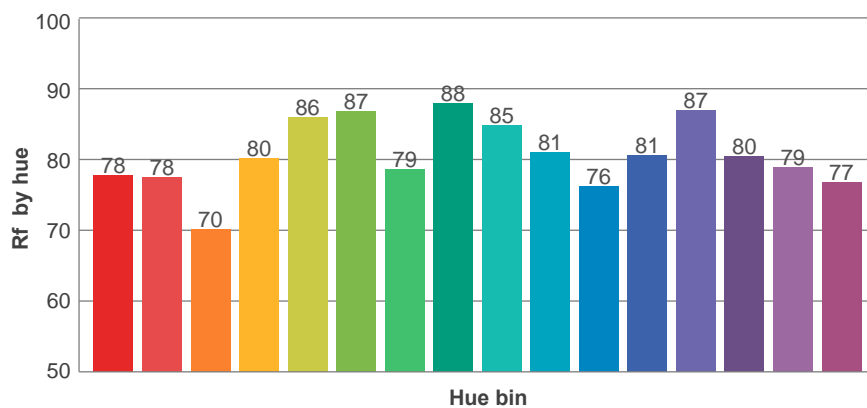
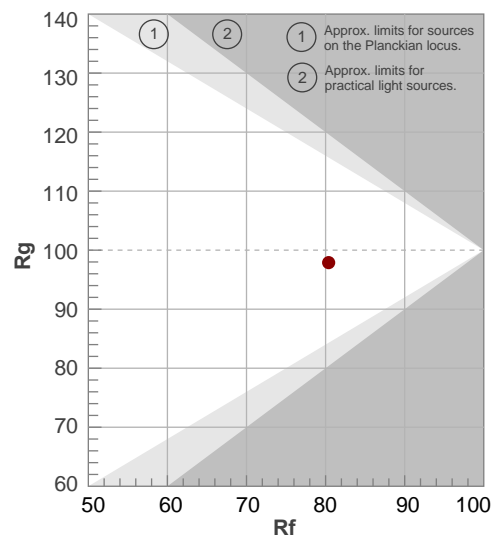
Rf 80.4

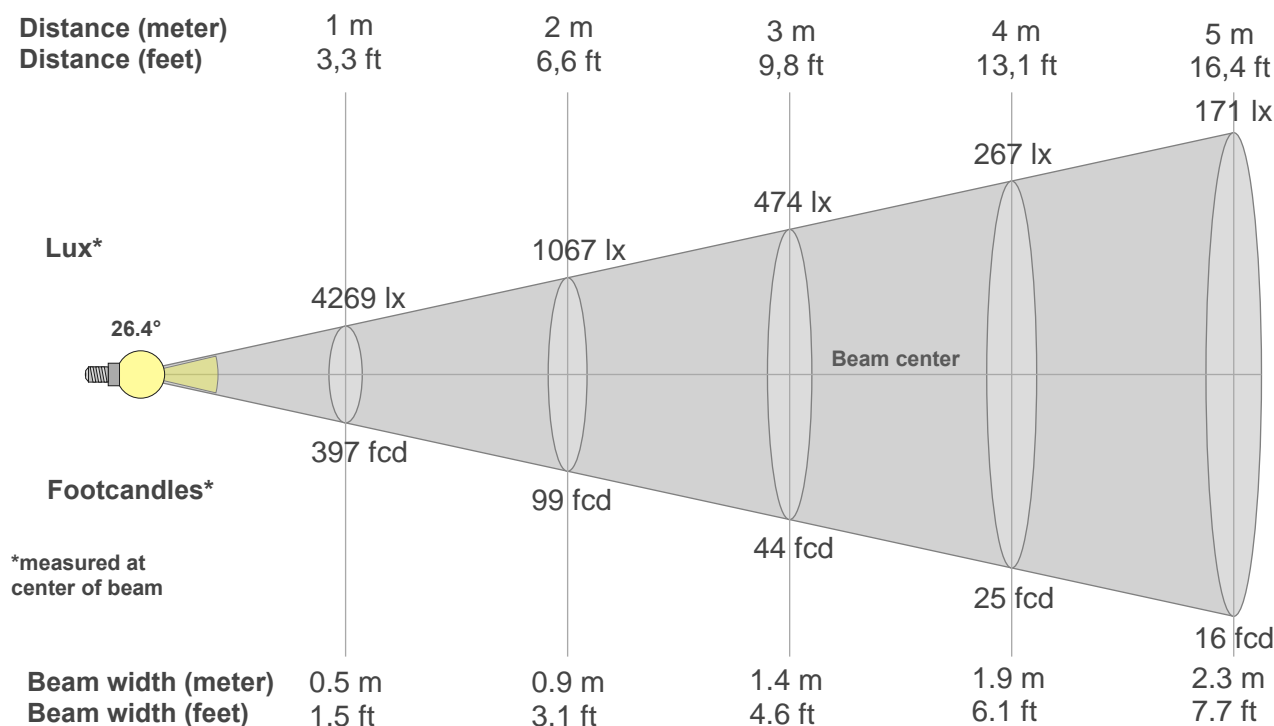
Fidelity index Rf

Rg 97.9

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 78 | -11% | -3% |
| 2 | 78 | -9% | 7% |
| 3 | 70 | -3% | 14% |
| 4 | 80 | 5% | 11% |
| 5 | 86 | 8% | 6% |
| 6 | 87 | 7% | -3% |
| 7 | 79 | 1% | -12% |
| 8 | 88 | -4% | -6% |
| 9 | 85 | -8% | -2% |
| 10 | 81 | -8% | 6% |
| 11 | 76 | -4% | 14% |
| 12 | 81 | 5% | 8% |
| 13 | 87 | 7% | -3% |
| 14 | 80 | 7% | -12% |
| 15 | 79 | 1% | -12% |
| 16 | 77 | -7% | -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 |
| 4269lx | 1067lx | 474lx | 267lx | 171lx | 119lx | 87lx | 67lx | 53lx | 43lx | 35lx | 30lx | 25lx | 22lx | 19lx | 17lx | 15lx | 13lx | 12lx | 11lx |
| 396.6fcd | 99.2fcd | 44.1fcd | 24.8fcd | 15.9fcd | 11fcd | 8.1fcd | 6.2fcd | 4.9fcd | 4fcd | 3.3fcd | 2.8fcd | 2.3fcd | 2fcd | 1.8fcd | 1.5fcd | 1.4fcd | 1.2fcd | 1.1fcd | 1fcd |

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° |
|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4269 | 4159 | 4159 | 3769 | 3294 | 2829 | 2384 | 1939 | 1638 | 1359 | 1127 | 968 | 809 | 688 | 571 | 455 | 338 | 222 | 156 | 91 |
| 100% | 97% | 97% | 88% | 77% | 66% | 56% | 45% | 38% | 32% | 26% | 23% | 19% | 16% | 13% | 11% | 8% | 5% | 4% | 2% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4269 | 4379 | 4116 | 3846 | 3353 | 2860 | 2422 | 2029 | 1647 | 1407 | 1166 | 985 | 844 | 705 | 588 | 471 | 359 | 250 | 152 | 104 |
| 100% | 103% | 96% | 90% | 79% | 67% | 57% | 48% | 39% | 33% | 27% | 23% | 20% | 17% | 14% | 11% | 8% | 6% | 4% | 2% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4269 | 4159 | 4159 | 3769 | 3294 | 2829 | 2384 | 1939 | 1638 | 1359 | 1127 | 968 | 809 | 688 | 571 | 455 | 338 | 222 | 156 | 91 |
| 100% | 97% | 97% | 88% | 77% | 66% | 56% | 45% | 38% | 32% | 26% | 23% | 19% | 16% | 13% | 11% | 8% | 5% | 4% | 2% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4269 | 4379 | 4116 | 3846 | 3353 | 2860 | 2422 | 2029 | 1647 | 1407 | 1166 | 985 | 844 | 705 | 588 | 471 | 359 | 250 | 152 | 104 |
| 100% | 103% | 96% | 90% | 79% | 67% | 57% | 48% | 39% | 33% | 27% | 23% | 20% | 17% | 14% | 11% | 8% | 6% | 4% | 2% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| {B_ANG}° | 61.1° | 75.2° | 98.6% | 96.8% |