

Light efficiency:

63 Lumen/Watt

Light quality:

CRI: 82.6

Color temperature:

2944 K

Output: 966 lm

Peak: 1413 cd

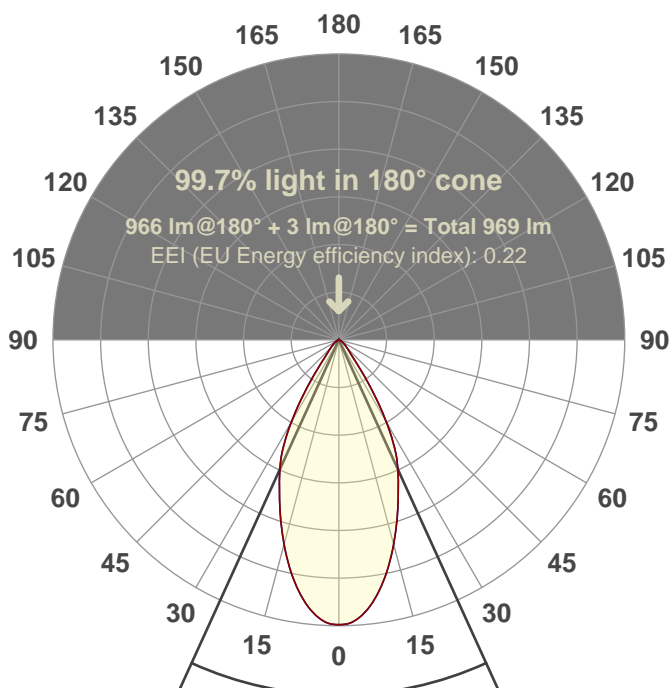
Power: 15.3 W

PF: 0.98



**112250-XTM19-16LM-30K-83-DA40-UNV-
ELV-WH-CLR**

Date and time:
12/13/2019 11:49:14 AM



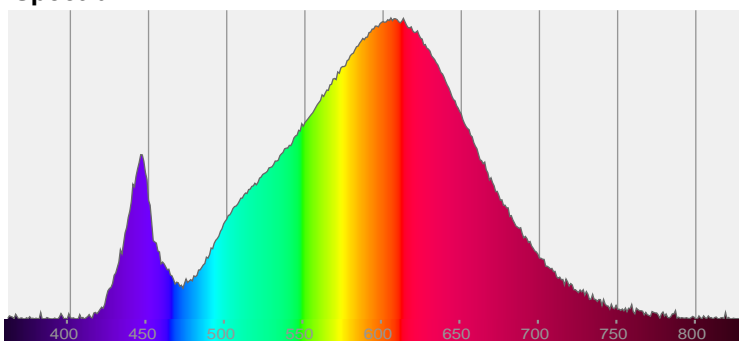
Beam angle

49°

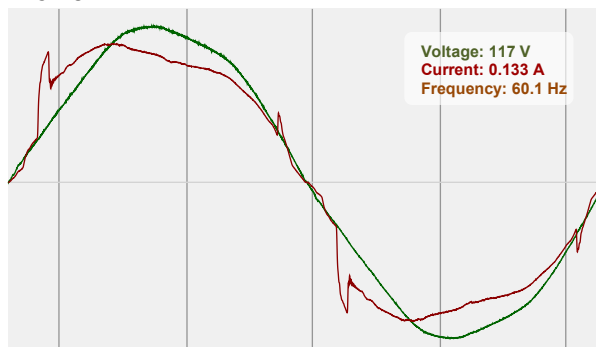


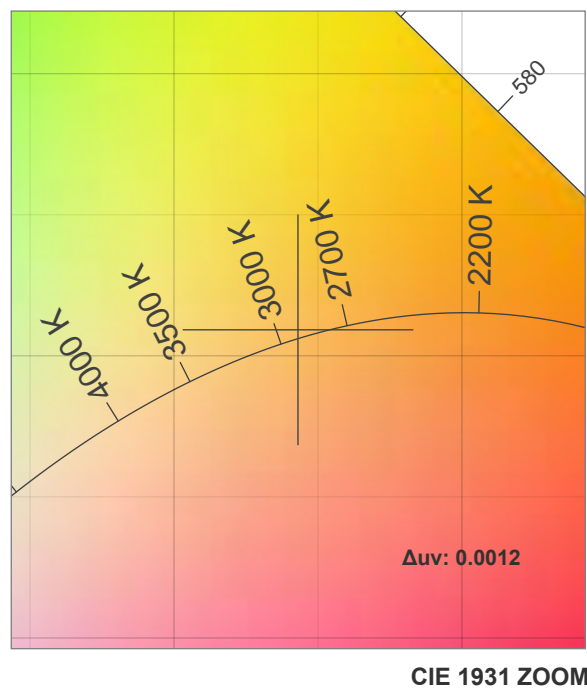
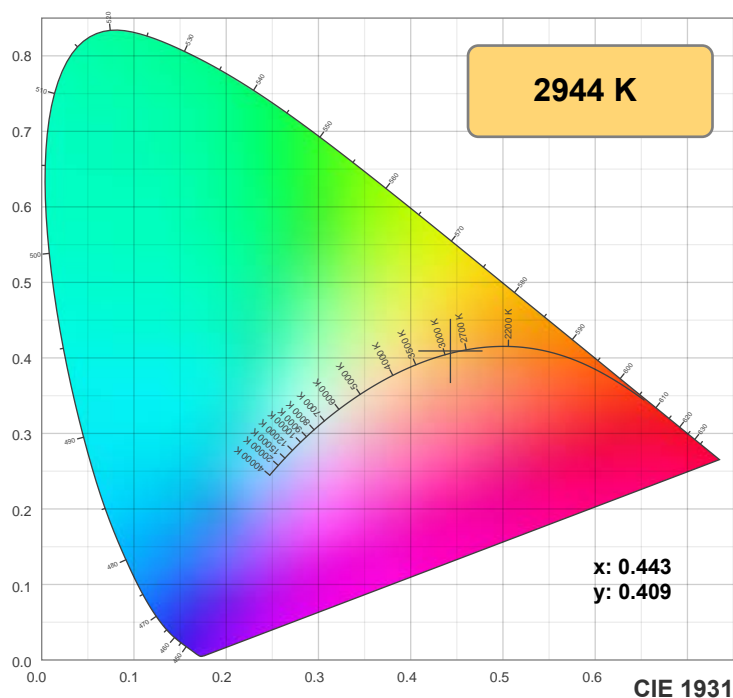
CIE 1931
x: 0.443
y: 0.409

Spectra

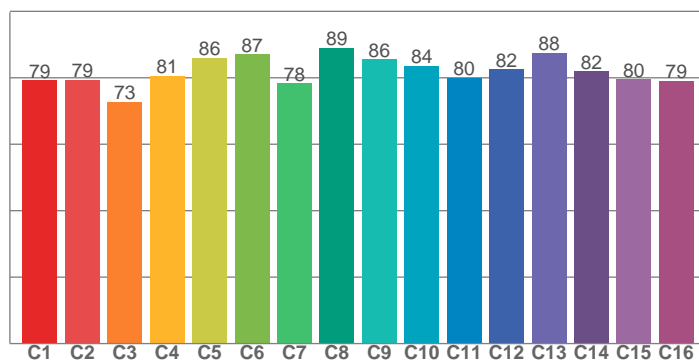


Power

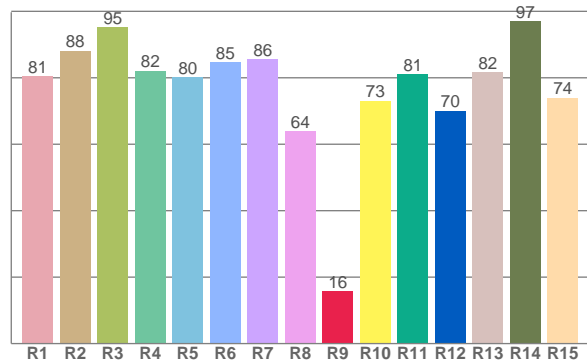




TM30: 81.8



CRI: 82.6 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.5 | 88.1 | 95.3 | 82.1 | 80.1 | 84.8 | 85.6 | 63.9 | 15.8 | 73.1 | 81.0 | 70.0 | 81.7 | 97.1 | 73.9 |

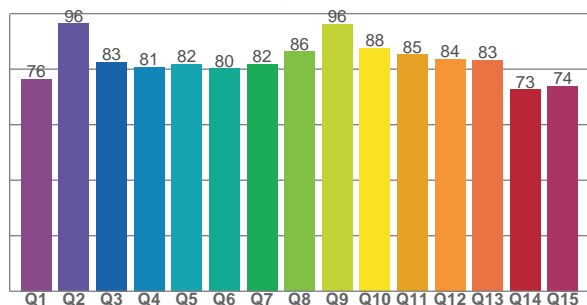
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.2 | 79.4 | 72.7 | 80.6 | 86.0 | 87.1 | 78.3 | 88.9 | 85.5 | 83.6 | 79.9 | 82.5 | 87.6 | 81.9 | 79.5 | 79.0 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 76.4 | 96.5 | 82.6 | 80.8 | 81.8 | 80.2 | 81.8 | 86.4 | 96.1 | 87.5 | 85.3 | 83.7 | 83.2 | 72.7 | 73.9 |

CQS: 81.9



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 |
| 2944 K | 82.6 | 15.8 | 81.8 | 98.6 | 81.9 | 0.443 | 0.409 | 0.252 | 0.350 | 0.0012 |

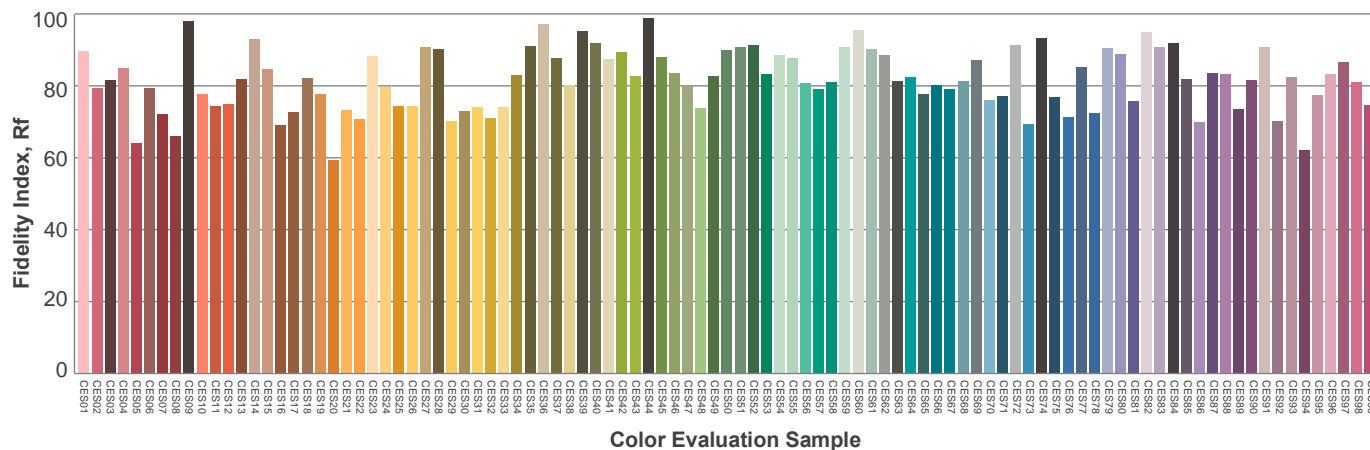
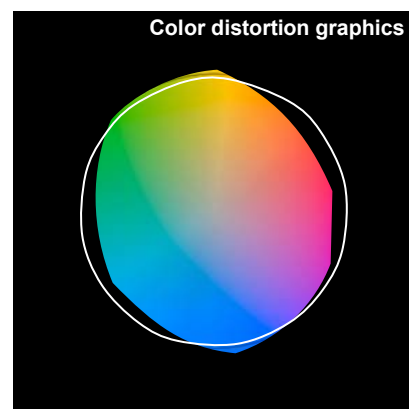
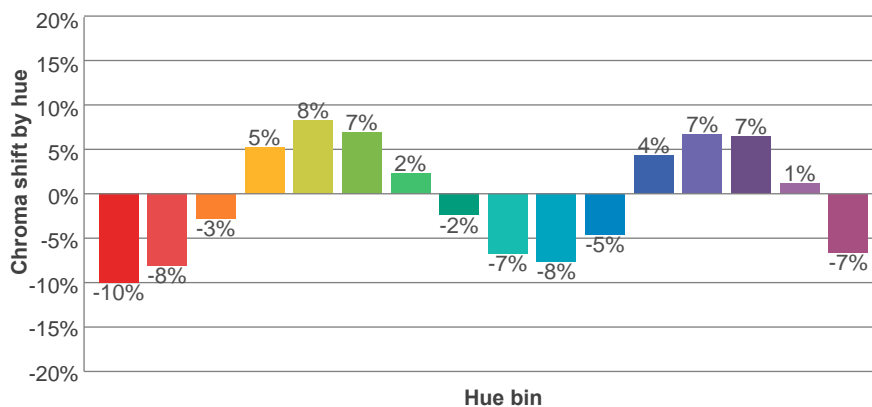
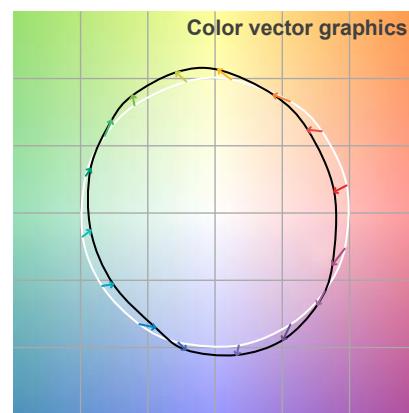
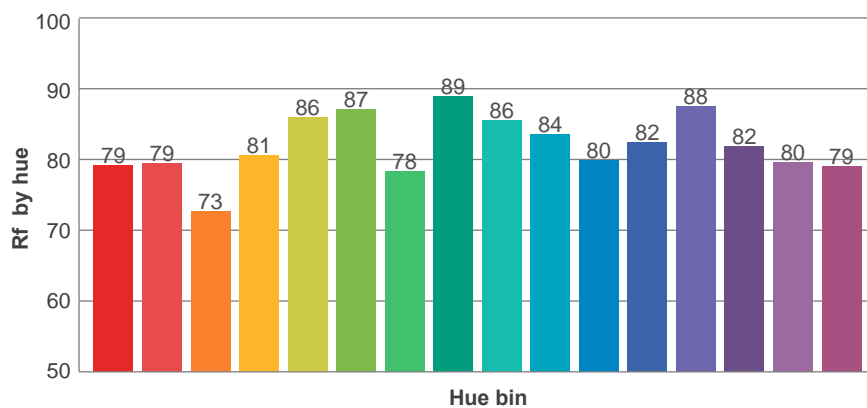
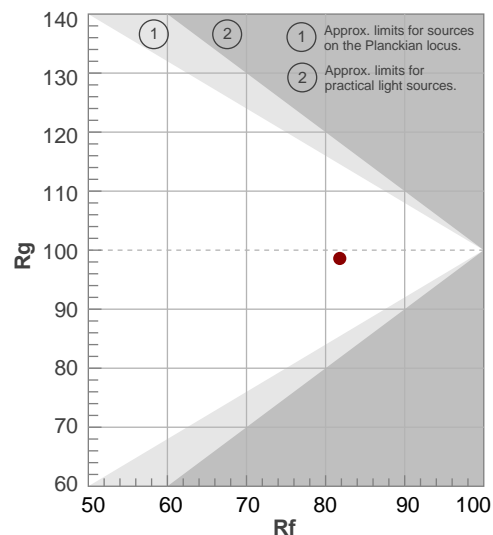
Rf 81.8

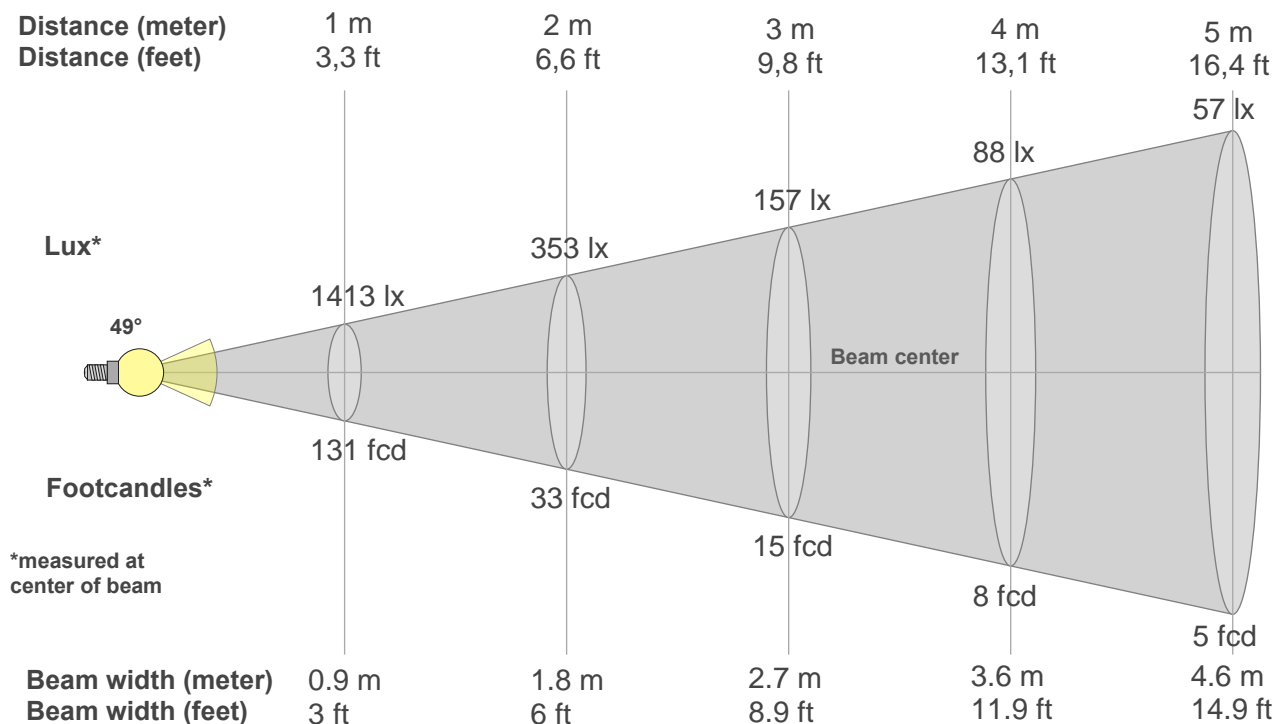
Fidelity index Rf

Rg 98.6

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 79 | -10% | -3% |
| 2 | 79 | -8% | 7% |
| 3 | 73 | -3% | 13% |
| 4 | 81 | 5% | 11% |
| 5 | 86 | 8% | 6% |
| 6 | 87 | 7% | -3% |
| 7 | 78 | 2% | -12% |
| 8 | 89 | -2% | -6% |
| 9 | 86 | -7% | -3% |
| 10 | 84 | -8% | 4% |
| 11 | 80 | -5% | 11% |
| 12 | 82 | 4% | 6% |
| 13 | 88 | 7% | -3% |
| 14 | 82 | 7% | -11% |
| 15 | 80 | 1% | -11% |
| 16 | 79 | -7% | -14% |





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 |
| 1413lx | 353lx | 157lx | 88lx | 57lx | 39lx | 29lx | 22lx | 17lx | 14lx | 12lx | 10lx | 8lx | 7lx | 6lx | 6lx | 5lx | 4lx | 4lx | 4lx |
| 131.2fcd | 32.8fcd | 14.6fcd | 8.2fcd | 5.2fcd | 3.6fcd | 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° | 2° | 4° | 6° | 8° | 10° | 12° | 14° | 16° | 18° | 20° | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1413 | 1409 | 1387 | 1347 | 1295 | 1234 | 1165 | 1090 | 1013 | 936 | 861 | 789 | 723 | 654 | 569 | 472 | 370 | 269 | 187 | 130 |
| 100% | 100% | 98% | 95% | 92% | 87% | 82% | 77% | 72% | 66% | 61% | 56% | 51% | 46% | 40% | 33% | 26% | 19% | 13% | 9% |

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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1413 | 1409 | 1387 | 1347 | 1295 | 1234 | 1165 | 1090 | 1013 | 936 | 861 | 789 | 723 | 654 | 569 | 472 | 370 | 269 | 187 | 130 |
| 100% | 100% | 98% | 95% | 92% | 87% | 82% | 77% | 72% | 66% | 61% | 56% | 51% | 46% | 40% | 33% | 26% | 19% | 13% | 9% |

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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1413 | 1409 | 1387 | 1347 | 1295 | 1234 | 1165 | 1090 | 1013 | 936 | 861 | 789 | 723 | 654 | 569 | 472 | 370 | 269 | 187 | 130 |
| 100% | 100% | 98% | 95% | 92% | 87% | 82% | 77% | 72% | 66% | 61% | 56% | 51% | 46% | 40% | 33% | 26% | 19% | 13% | 9% |

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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1413 | 1409 | 1387 | 1347 | 1295 | 1234 | 1165 | 1090 | 1013 | 936 | 861 | 789 | 723 | 654 | 569 | 472 | 370 | 269 | 187 | 130 |
| 100% | 100% | 98% | 95% | 92% | 87% | 82% | 77% | 72% | 66% | 61% | 56% | 51% | 46% | 40% | 33% | 26% | 19% | 13% | 9% |

| Beam angle 50° | Field angle 10° | Cutoff angle 2,5° | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| {B_ANG}° | 75.1° | 103° | 97.9% | 93.3% |