

Light efficiency:

59 Lumen/Watt

Light quality:

CRI: 80.5

Color temperature:

3969 K

Output: 734 lm

Peak: 5140 cd

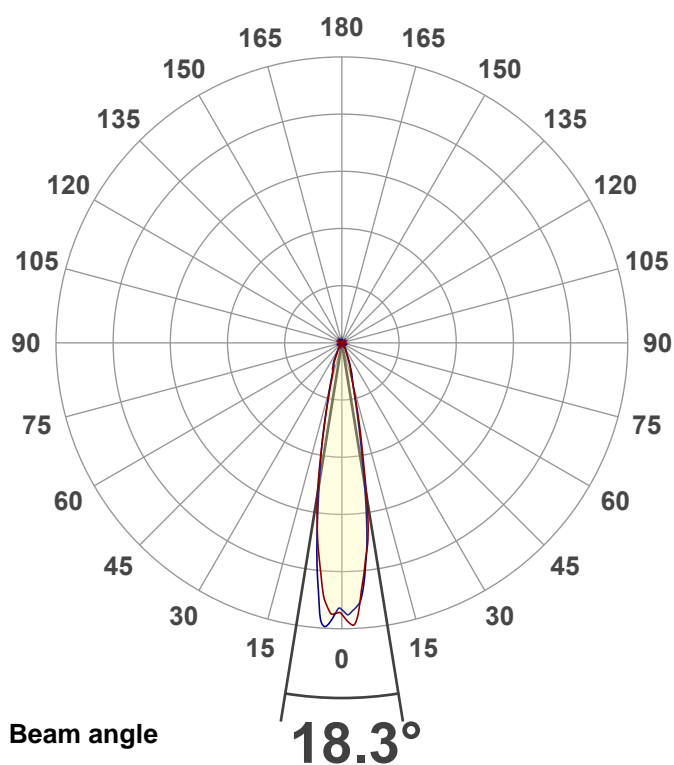
Power: 12.6 W

PF: 0.91



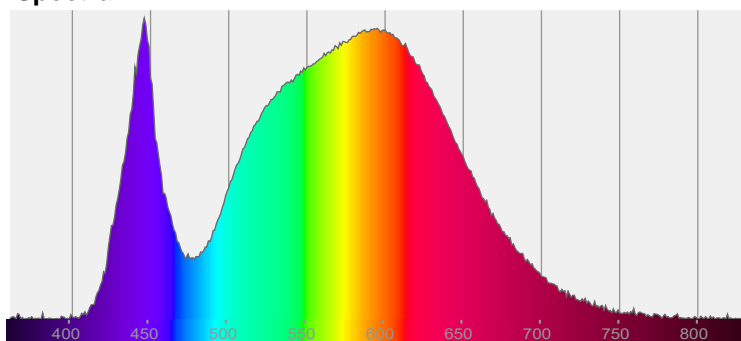
EXT-SKY-D-SW-10LM-40K-80-20D-24-BK-BK-CGLOBE

Date and time:
11/2/2021 3:28:21 PM

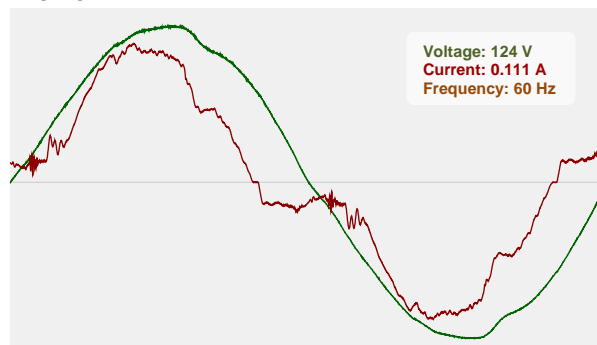


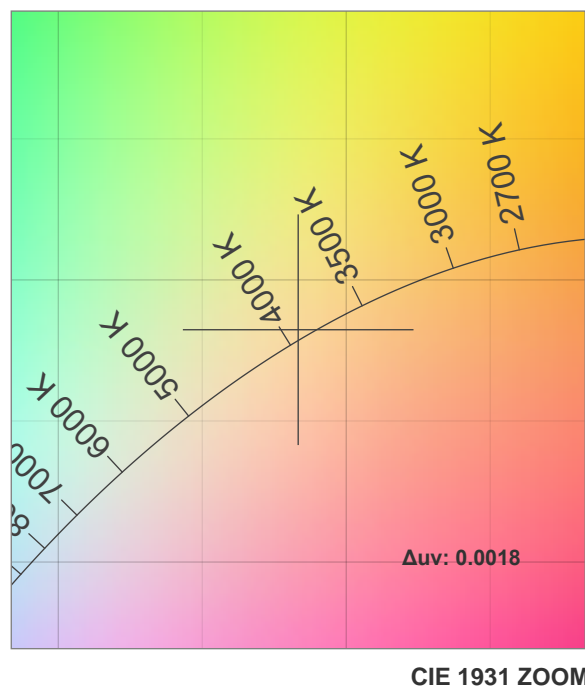
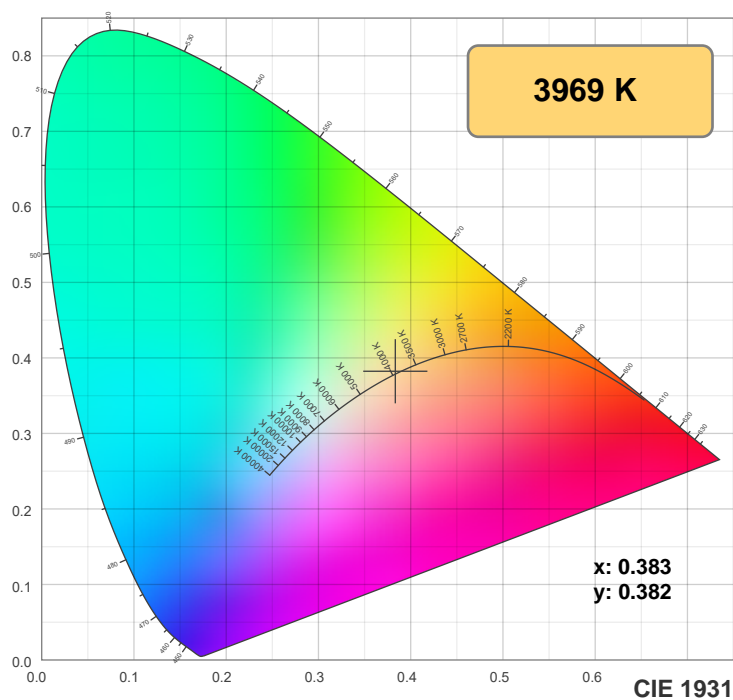
CIE 1931
x: 0.383
y: 0.382

Spectra



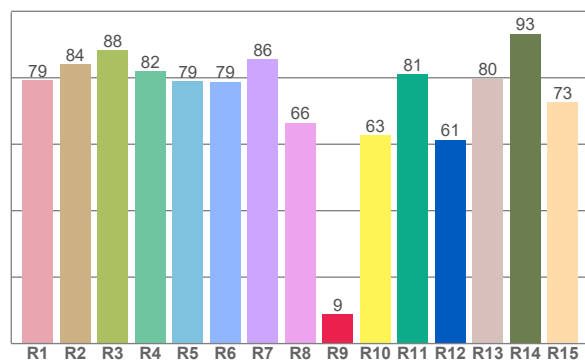
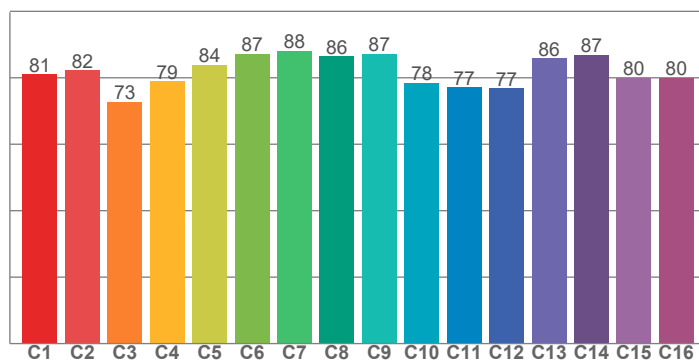
Power





TM30: 81.8

CRI: 80.5 (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 |
|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 79.2 | 84.2 | 88.4 | 81.9 | 79.0 | 78.8 | 85.7 | 66.5 | 8.9 | 62.7 | 81.0 | 61.4 | 79.7 | 93.2 | 72.7 |

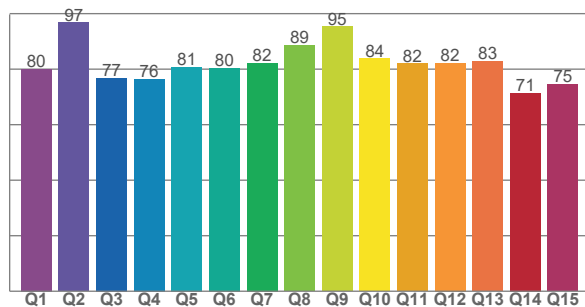
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 81.1 | 82.3 | 72.7 | 78.9 | 83.9 | 87.3 | 88.0 | 86.4 | 87.2 | 78.4 | 77.1 | 76.8 | 85.9 | 86.8 | 79.9 | 80.1 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.0 | 96.8 | 76.9 | 76.5 | 80.8 | 80.4 | 82.3 | 88.6 | 95.4 | 83.9 | 82.1 | 82.2 | 82.8 | 71.4 | 74.5 |

CQS: 81.1



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 |
| 3969 K | 80.5 | 8.9 | 81.8 | 98.4 | 81.1 | 0.383 | 0.382 | 0.225 | 0.336 | 0.0018 |

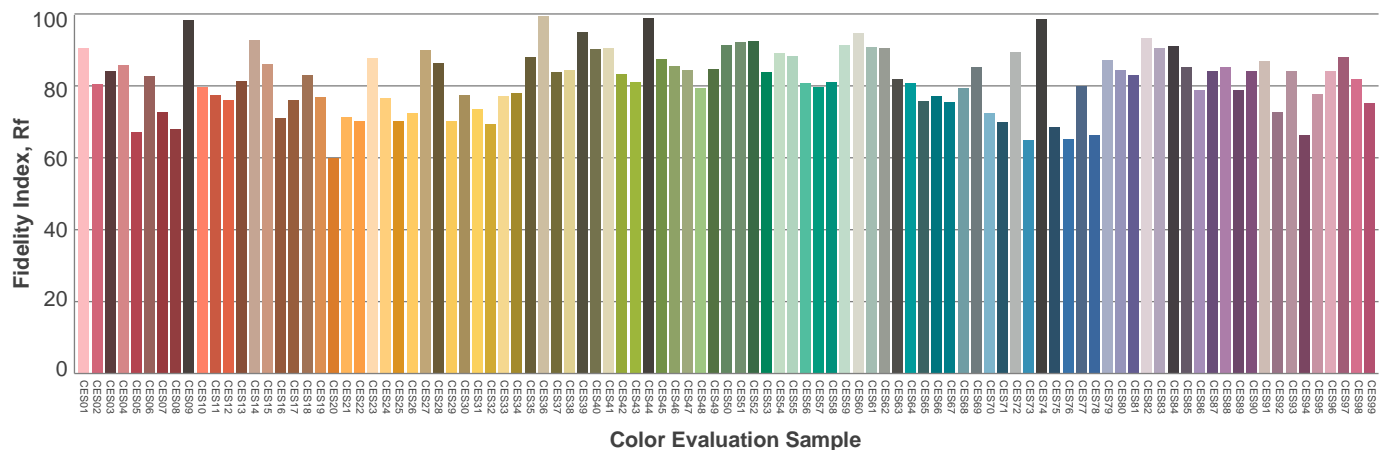
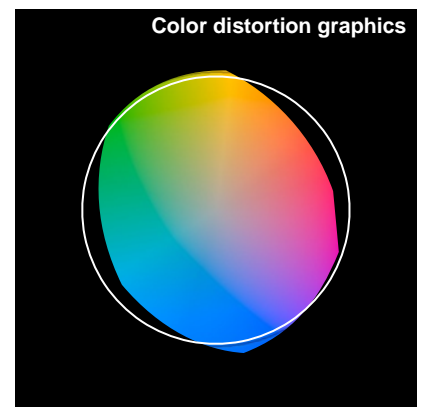
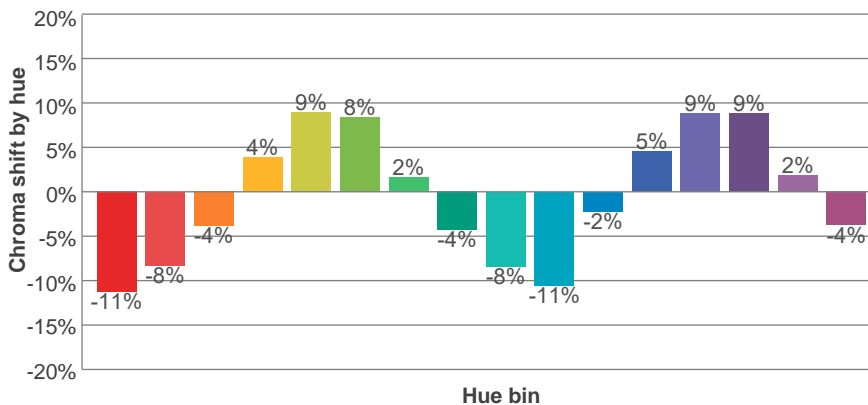
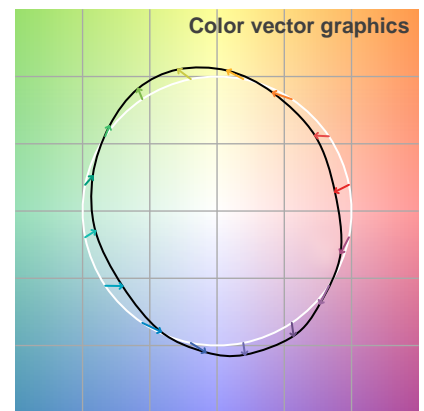
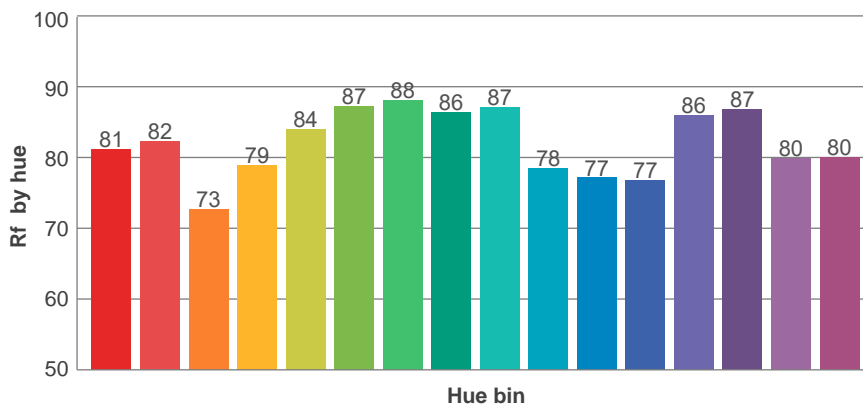
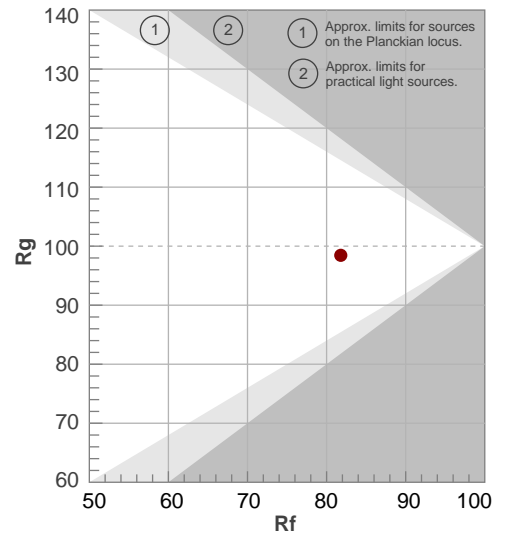
Rf 81.8

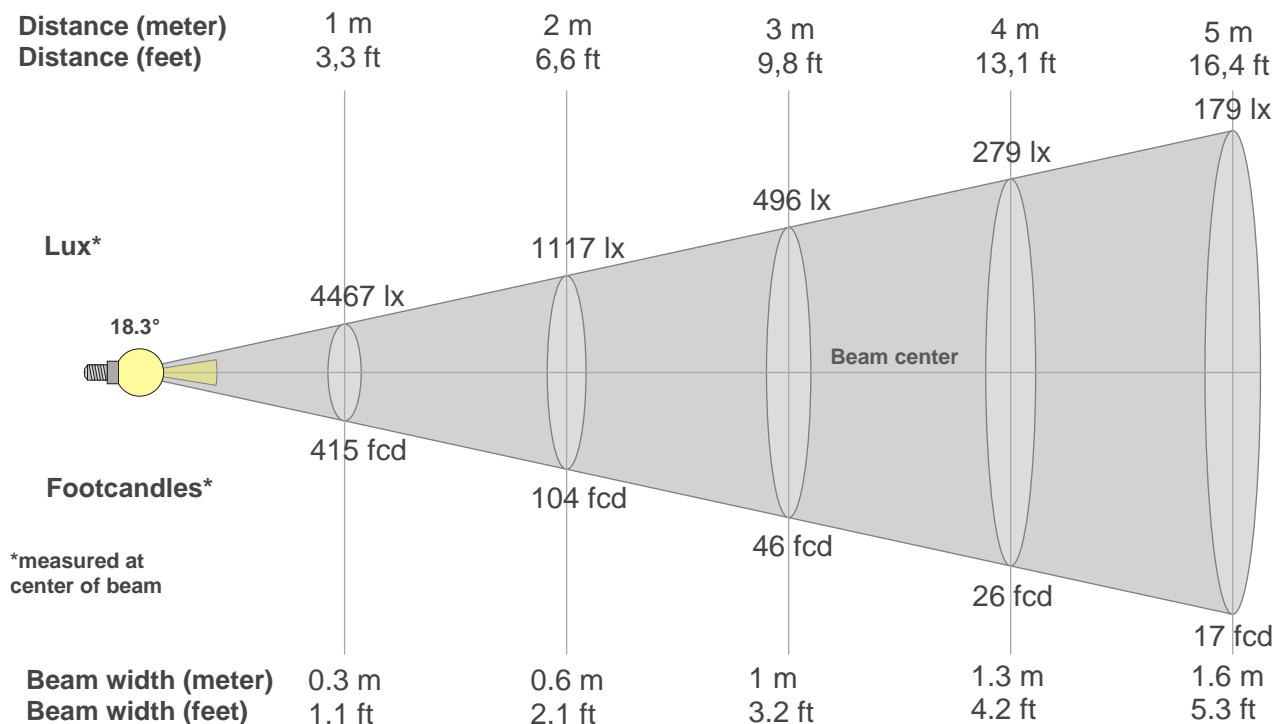
Fidelity index Rf

Rg 98.4

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 81 | -11% | -3% |
| 2 | 82 | -8% | 6% |
| 3 | 73 | -4% | 14% |
| 4 | 79 | 4% | 13% |
| 5 | 84 | 9% | 8% |
| 6 | 87 | 8% | -2% |
| 7 | 88 | 2% | -8% |
| 8 | 86 | -4% | -7% |
| 9 | 87 | -8% | -3% |
| 10 | 78 | -11% | 7% |
| 11 | 77 | -2% | 15% |
| 12 | 77 | 5% | 12% |
| 13 | 86 | 9% | 0% |
| 14 | 87 | 9% | -4% |
| 15 | 80 | 2% | -15% |
| 16 | 80 | -4% | -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 |
| 4467lx | 1117lx | 496lx | 279lx | 179lx | 124lx | 91lx | 70lx | 55lx | 45lx | 37lx | 31lx | 26lx | 23lx | 20lx | 17lx | 15lx | 14lx | 12lx | 11lx |
| 415fcd | 103.8fcd | 46.1fcd | 25.9fcd | 16.6fcd | 11.5fcd | 8.5fcd | 6.5fcd | 5.1fcd | 4.2fcd | 3.4fcd | 2.9fcd | 2.5fcd | 2.1fcd | 1.8fcd | 1.6fcd | 1.4fcd | 1.3fcd | 1.1fcd | 1fcd |

Intensities in 0° c-plane

| 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° | 11° | 12° | 13° | 14° | 15° | 16° | 17° | 18° | 19° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| 4467 | 4573 | 4637 | 4563 | 4281 | 3957 | 3665 | 3413 | 3102 | 2653 | 2135 | 1737 | 1418 | 1121 | 881 | 696 | 570 | 496 | 457 | 420 |
| 100% | 102% | 104% | 102% | 96% | 89% | 82% | 76% | 69% | 59% | 48% | 39% | 32% | 25% | 20% | 16% | 13% | 11% | 10% | 9% |

Intensities in 90° c-plane

| 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° | 11° | 12° | 13° | 14° | 15° | 16° | 17° | 18° | 19° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| 4467 | 4468 | 4440 | 4373 | 4276 | 4051 | 3720 | 3374 | 2922 | 2423 | 1946 | 1572 | 1256 | 1007 | 822 | 707 | 633 | 577 | 521 | 446 |
| 100% | 100% | 99% | 98% | 96% | 91% | 83% | 76% | 65% | 54% | 44% | 35% | 28% | 23% | 18% | 16% | 14% | 13% | 12% | 10% |

Intensities in 180° c-plane

| 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° | 11° | 12° | 13° | 14° | 15° | 16° | 17° | 18° | 19° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| 4467 | 4458 | 4471 | 4378 | 4210 | 3889 | 3575 | 3275 | 2932 | 2600 | 2170 | 1744 | 1379 | 1107 | 884 | 713 | 593 | 527 | 491 | 469 |
| 100% | 100% | 100% | 98% | 94% | 87% | 80% | 73% | 66% | 58% | 49% | 39% | 31% | 25% | 20% | 16% | 13% | 12% | 11% | 10% |

Intensities in 270° c-plane

| 0° | 1° | 2° | 3° | 4° | 5° | 6° | 7° | 8° | 9° | 10° | 11° | 12° | 13° | 14° | 15° | 16° | 17° | 18° | 19° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| 4467 | 4421 | 4551 | 4654 | 4621 | 4303 | 3853 | 3377 | 2868 | 2414 | 2041 | 1730 | 1423 | 1135 | 923 | 782 | 648 | 532 | 441 | 397 |
| 100% | 99% | 102% | 104% | 103% | 96% | 86% | 76% | 64% | 54% | 46% | 39% | 32% | 25% | 21% | 17% | 14% | 12% | 10% | 9% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| {B_ANG}° | 36.3° | 59.5° | 96.5% | 96.1% |