

Light efficiency:

46 Lumen/Watt

Light quality:

CRI: 81.1

Color temperature:

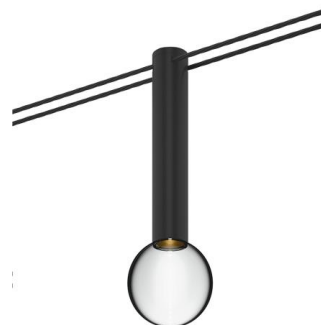
3979 K

Output: 580 lm

Peak: 1106 cd

Power: 12.6 W

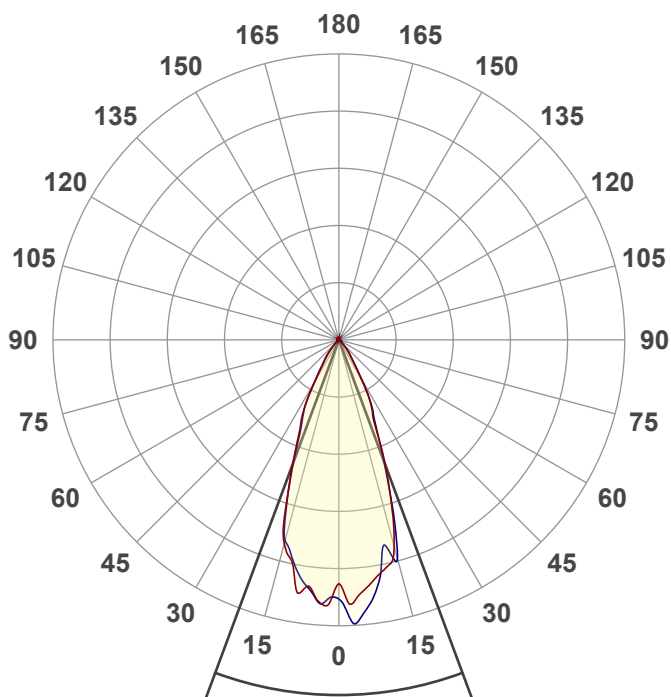
PF: 0.91



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

Date and time:

11/3/2021 3:26:34 PM



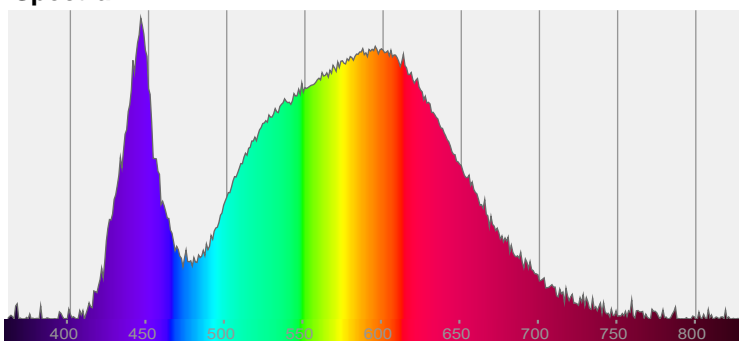
Beam angle

40.7°

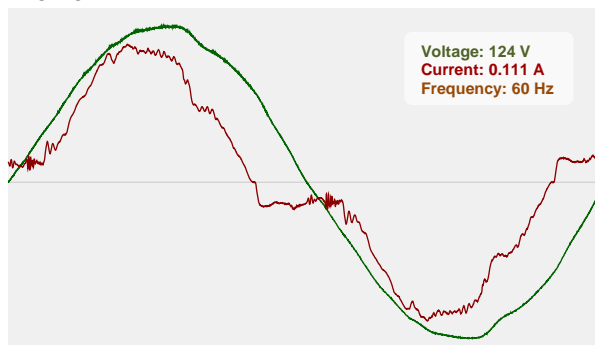


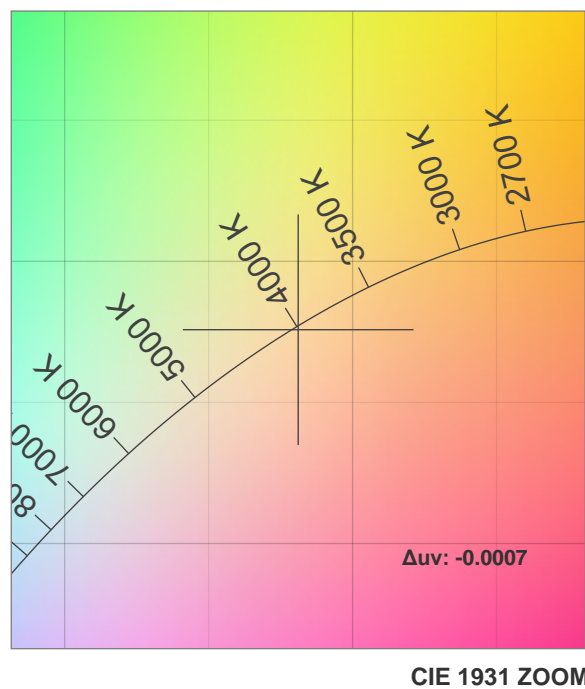
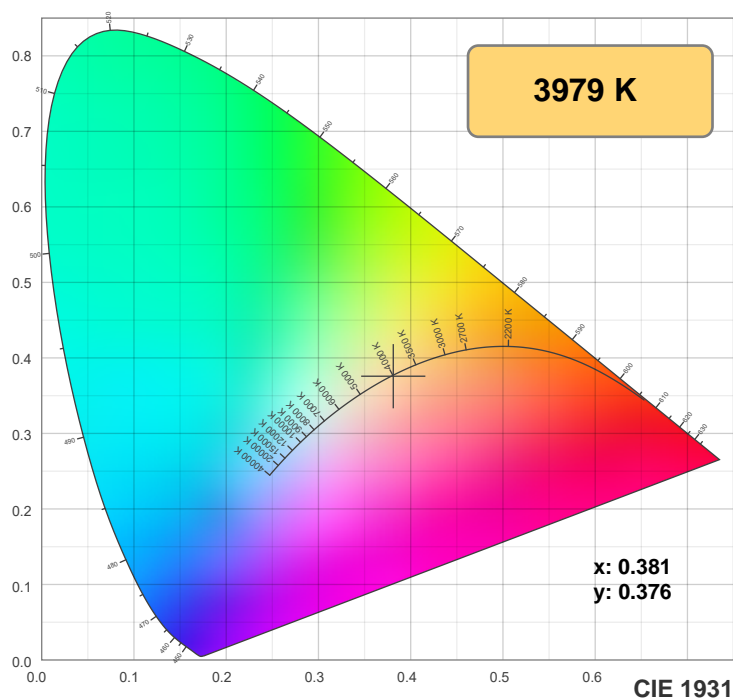
CIE 1931
x: 0.381
y: 0.376

Spectra



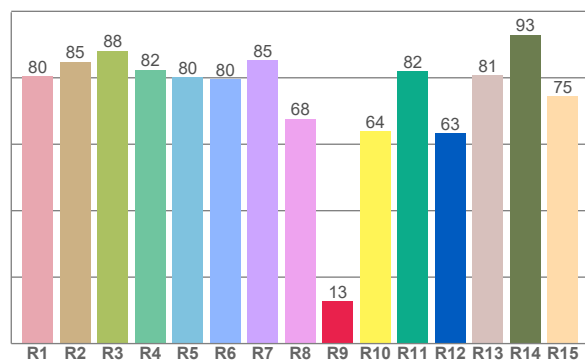
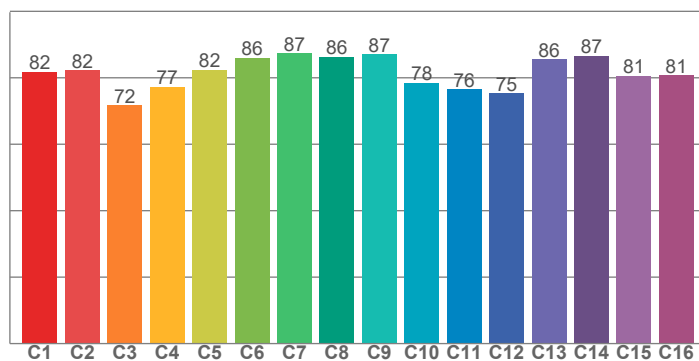
Power





TM30: 81.3

CRI: 81.1 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.4 | 84.8 | 88.1 | 82.4 | 80.2 | 79.5 | 85.3 | 67.7 | 12.8 | 64.0 | 81.9 | 63.3 | 80.8 | 93.0 | 74.5 |

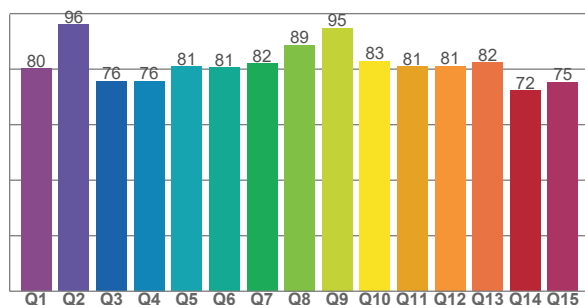
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 81.7 | 82.2 | 71.7 | 77.3 | 82.4 | 85.9 | 87.3 | 86.3 | 87.1 | 78.5 | 76.5 | 75.4 | 85.5 | 86.7 | 80.5 | 80.7 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.1 | 96.0 | 75.6 | 75.8 | 80.9 | 80.5 | 82.0 | 88.7 | 94.8 | 82.8 | 80.9 | 81.2 | 82.4 | 72.3 | 75.2 |

CQS: 80.8



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 |
| 3979 K | 81.1 | 12.8 | 81.3 | 99.4 | 80.8 | 0.381 | 0.376 | 0.226 | 0.334 | -0.0007 |

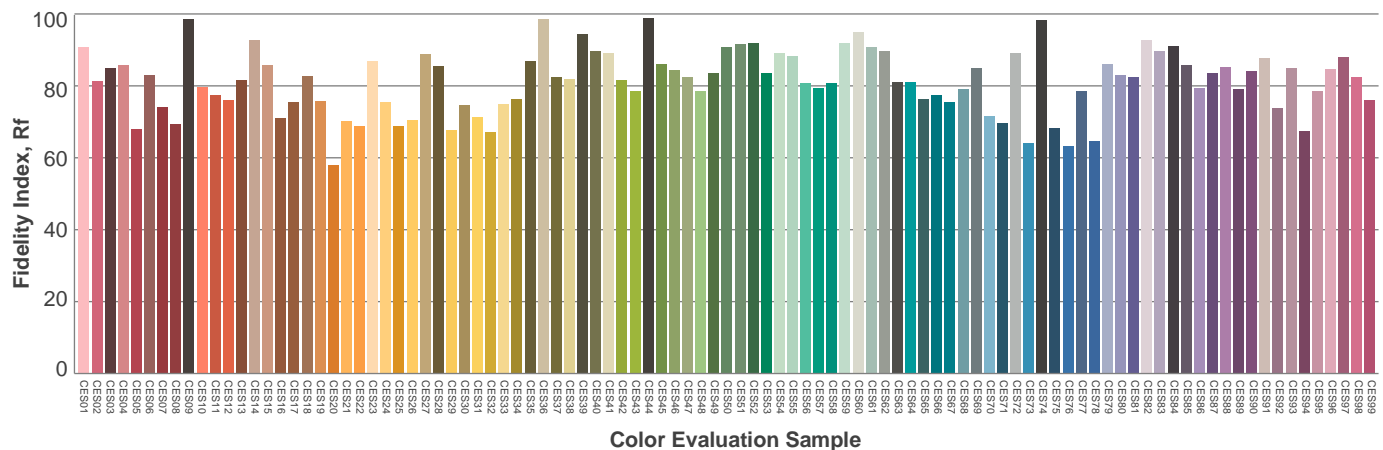
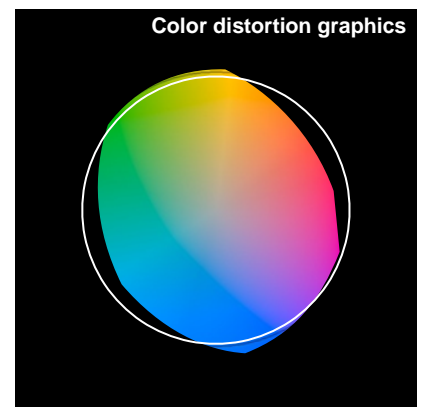
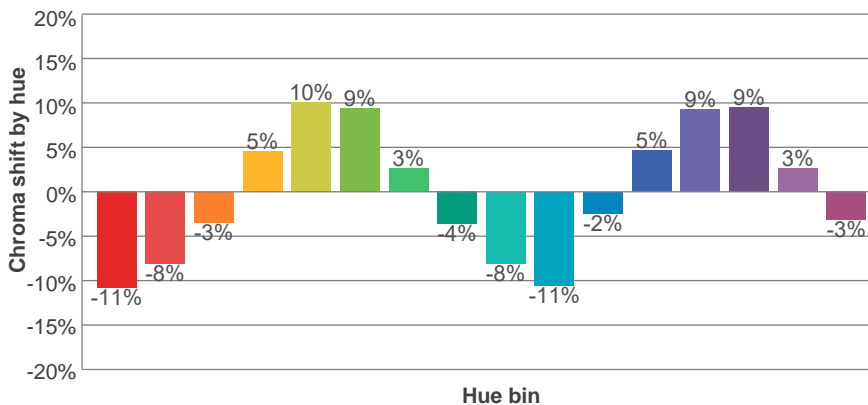
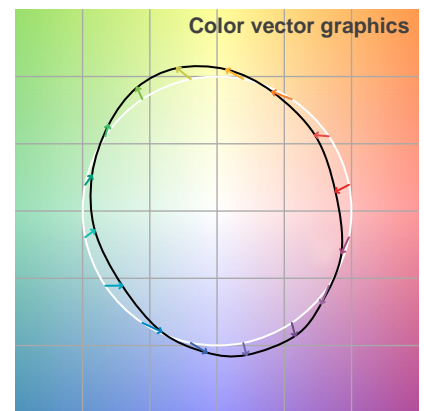
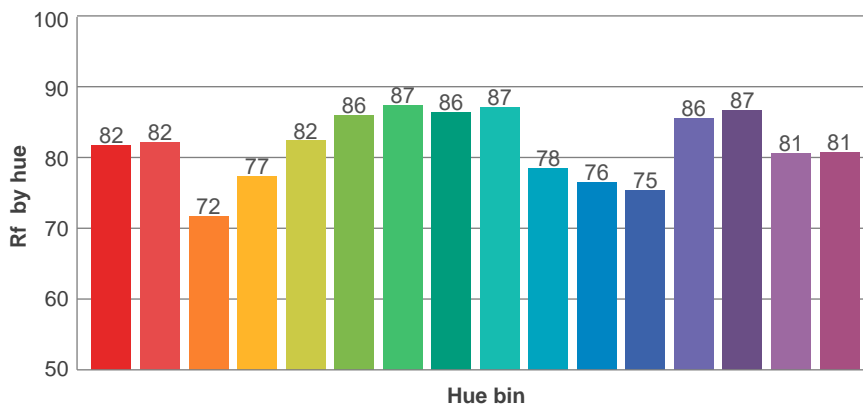
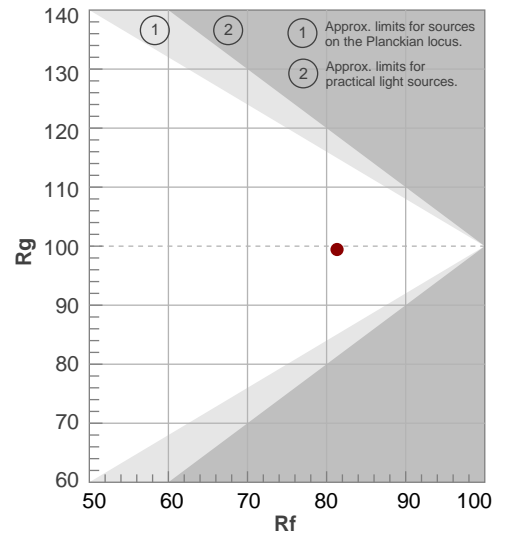
Rf 81.3

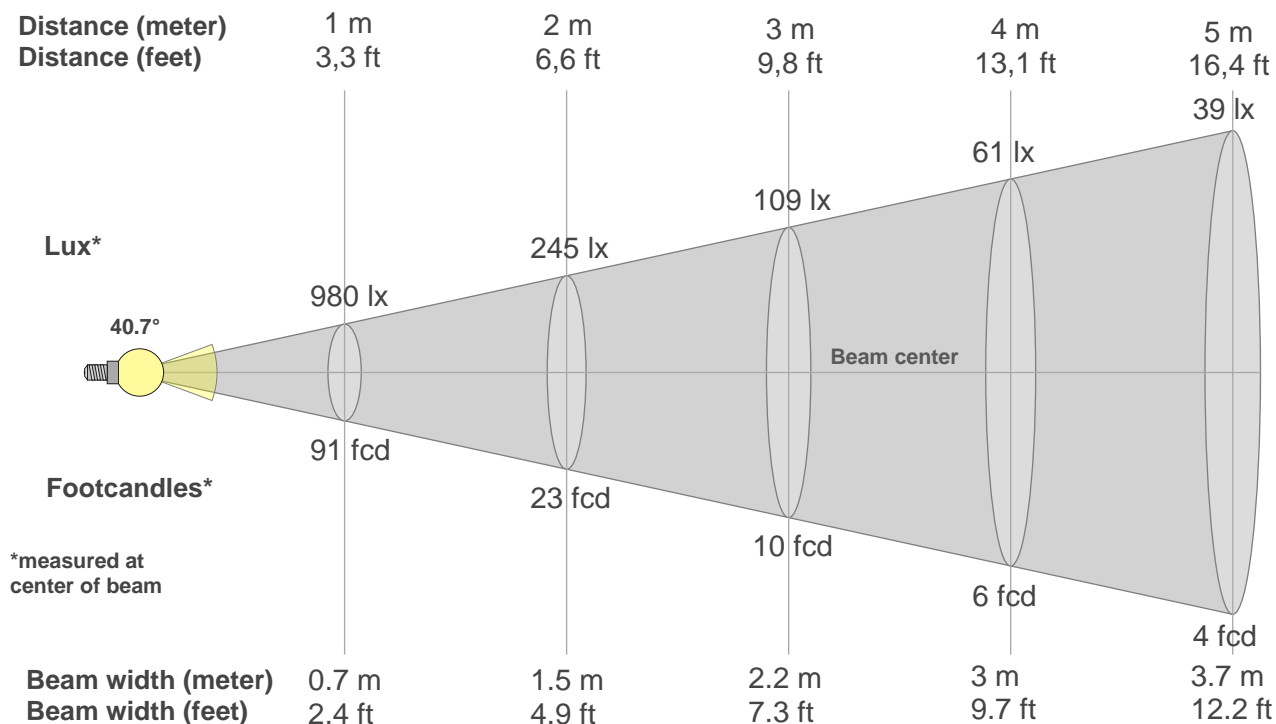
Fidelity index Rf

Rg 99.4

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 82 | -11% | -3% |
| 2 | 82 | -8% | 7% |
| 3 | 72 | -3% | 15% |
| 4 | 77 | 5% | 14% |
| 5 | 82 | 10% | 9% |
| 6 | 86 | 9% | -1% |
| 7 | 87 | 3% | -8% |
| 8 | 86 | -4% | -8% |
| 9 | 87 | -8% | -4% |
| 10 | 78 | -11% | 7% |
| 11 | 76 | -2% | 15% |
| 12 | 75 | 5% | 13% |
| 13 | 86 | 9% | 1% |
| 14 | 87 | 9% | -3% |
| 15 | 81 | 3% | -14% |
| 16 | 81 | -3% | -12% |





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 |
| 980lx | 245lx | 109lx | 61lx | 39lx | 27lx | 20lx | 15lx | 12lx | 10lx | 8lx | 7lx | 6lx | 5lx | 4lx | 4lx | 3lx | 3lx | 3lx | 2lx |
| 91.1fcd | 22.8fcd | 10.1fcd | 5.7fcd | 3.6fcd | 2.5fcd | 1.9fcd | 1.4fcd | 1.1fcd | 0.9fcd | 0.8fcd | 0.6fcd | 0.5fcd | 0.5fcd | 0.4fcd | 0.4fcd | 0.3fcd | 0.3fcd | 0.3fcd | 0.2fcd |

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° |
|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 980 | 1018 | 1004 | 977 | 949 | 924 | 902 | 875 | 776 | 658 | 541 | 424 | 330 | 288 | 239 | 169 | 125 | 97 | 76 | 60 |
| 100% | 104% | 102% | 100% | 97% | 94% | 92% | 89% | 79% | 67% | 55% | 43% | 34% | 29% | 24% | 17% | 13% | 10% | 8% | 6% |

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° |
|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 980 | 1069 | 1089 | 1050 | 1000 | 932 | 835 | 870 | 807 | 668 | 529 | 420 | 340 | 297 | 242 | 182 | 132 | 99 | 79 | 67 |
| 100% | 109% | 111% | 107% | 102% | 95% | 85% | 89% | 82% | 68% | 54% | 43% | 35% | 30% | 25% | 19% | 13% | 10% | 8% | 7% |

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° |
|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 980 | 1021 | 1022 | 988 | 980 | 967 | 884 | 847 | 782 | 657 | 540 | 443 | 371 | 321 | 260 | 187 | 139 | 107 | 84 | 66 |
| 100% | 104% | 104% | 101% | 100% | 99% | 90% | 86% | 80% | 67% | 55% | 45% | 38% | 33% | 26% | 19% | 14% | 11% | 9% | 7% |

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° |
|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 980 | 1006 | 1030 | 991 | 958 | 918 | 871 | 823 | 767 | 647 | 529 | 425 | 358 | 311 | 258 | 191 | 143 | 111 | 92 | 71 |
| 100% | 103% | 105% | 101% | 98% | 94% | 89% | 84% | 78% | 66% | 54% | 43% | 37% | 32% | 26% | 19% | 15% | 11% | 9% | 7% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| {B_ANG}° | 68.3° | 86.9° | 95.2% | 93.4% |