

Light efficiency:

101 Lumen/Watt

Light quality:

CRI: 81.5

Color temperature:

2983 K

Output: 3121 lm

Peak: 2425 cd

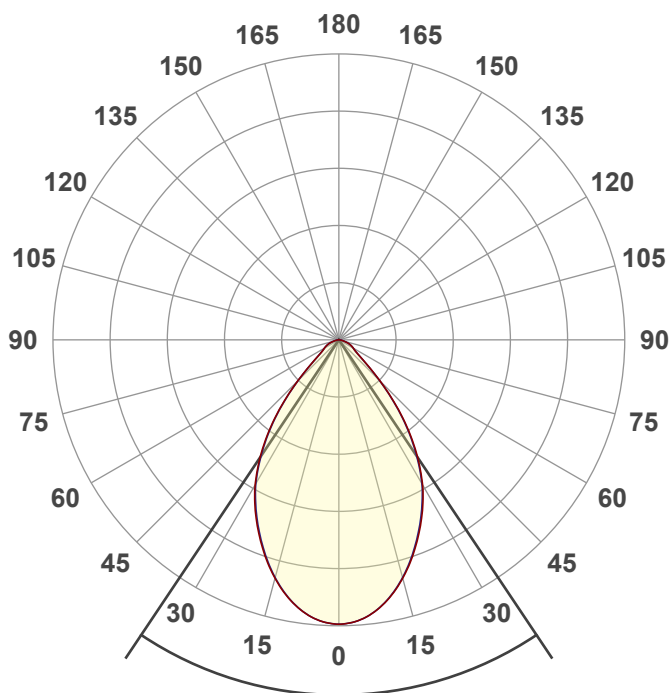
Power: 31.0 W

PF: 0.98



BETA-4Q-SW-35LM-30K-80-HE60-WH-WH

Date and time:
9/14/2022 9:55:35 AM



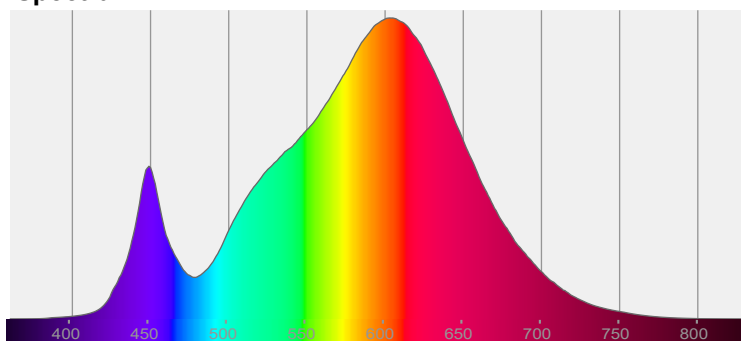
Beam angle

67.6°

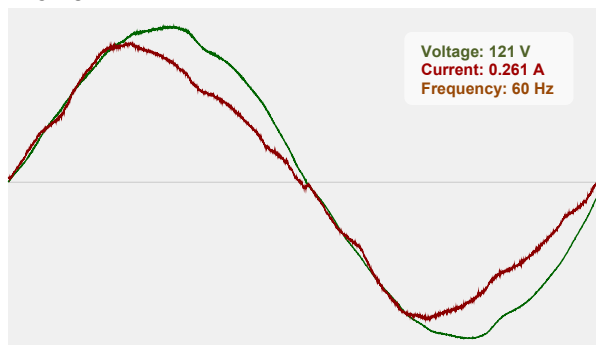


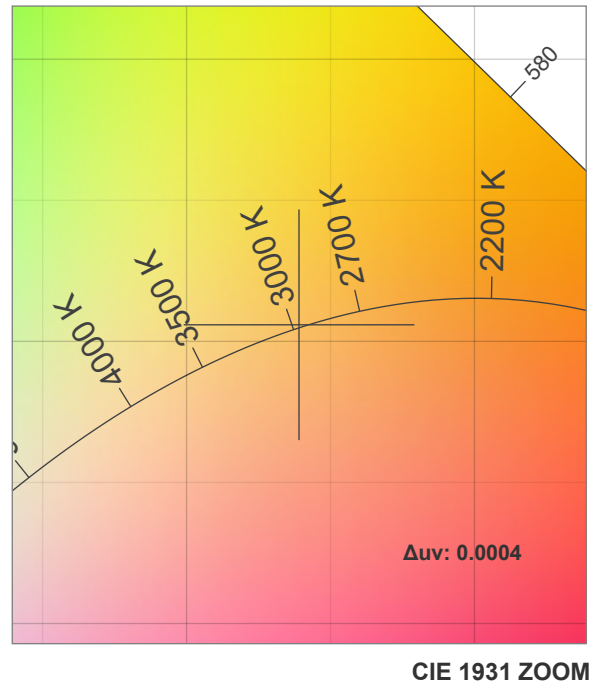
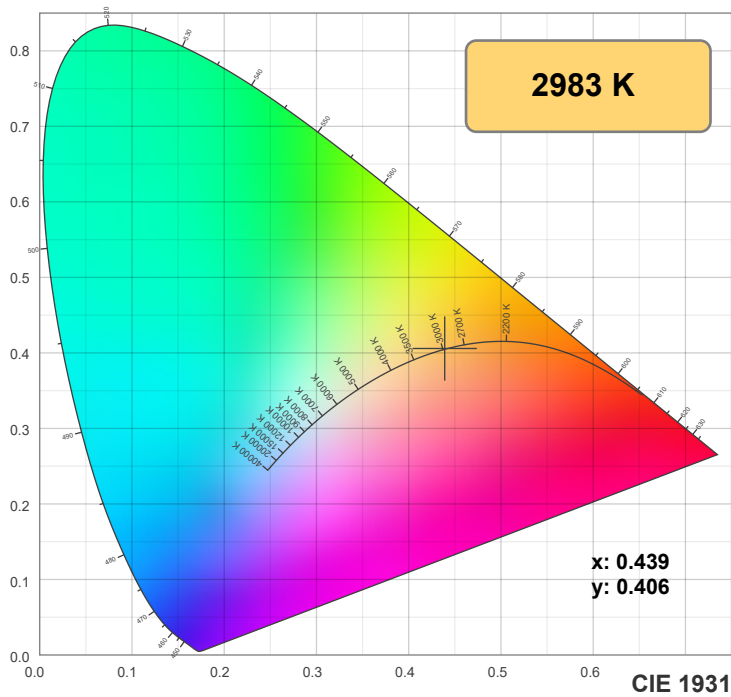
CIE 1931
x: 0.439
y: 0.406

Spectra

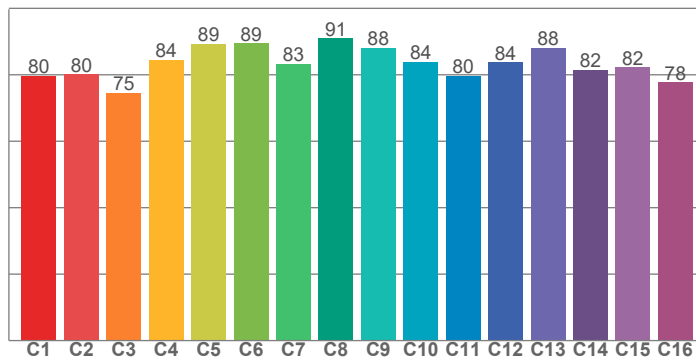


Power

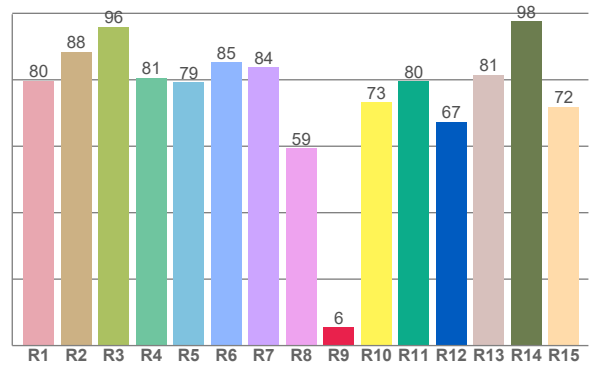




TM30: 83.3



CRI: 81.5 (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 |
|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 79.7 | 88.4 | 95.9 | 80.6 | 79.3 | 85.3 | 83.7 | 59.5 | 5.6 | 73.2 | 79.6 | 67.4 | 81.5 | 97.6 | 71.9 |

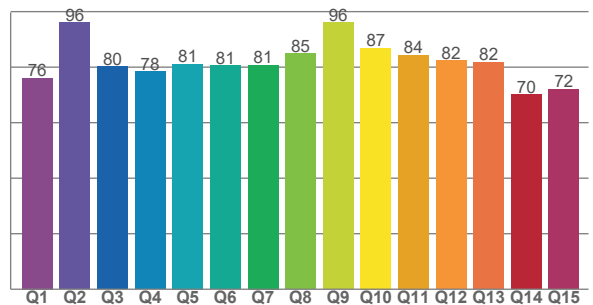
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.8 | 80.1 | 74.5 | 84.5 | 89.3 | 89.4 | 83.3 | 91.0 | 88.0 | 83.9 | 79.6 | 83.7 | 88.1 | 81.6 | 82.2 | 77.7 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 76.0 | 96.1 | 80.2 | 78.4 | 81.2 | 80.5 | 80.8 | 84.9 | 96.0 | 87.0 | 84.3 | 82.4 | 81.8 | 70.1 | 72.0 |

CQS: 80.7



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 |
| 2983 K | 81.5 | 5.6 | 83.3 | 97.4 | 80.7 | 0.439 | 0.406 | 0.251 | 0.348 | 0.0004 |

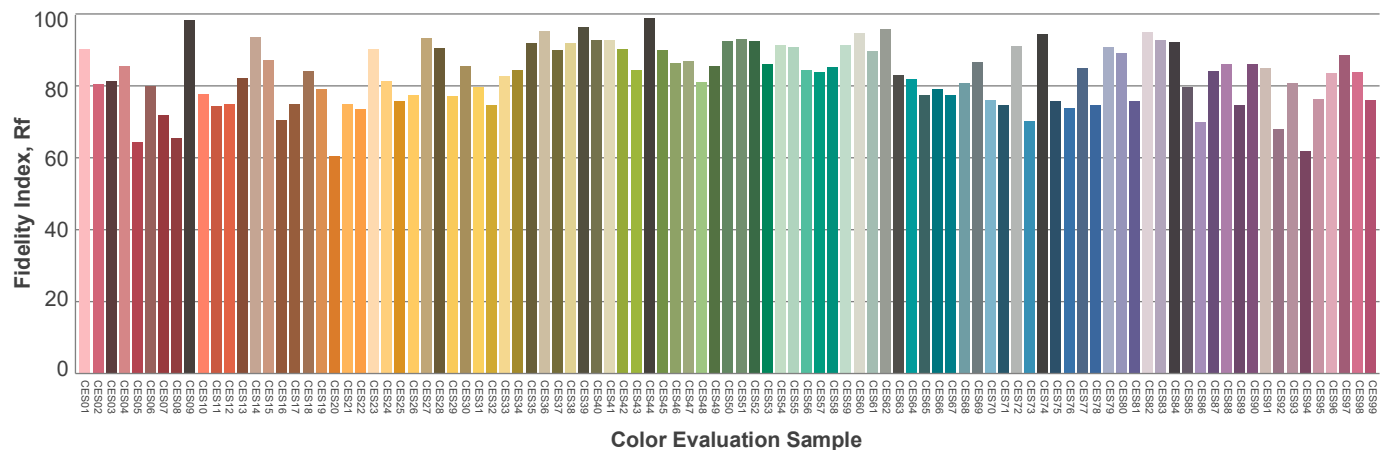
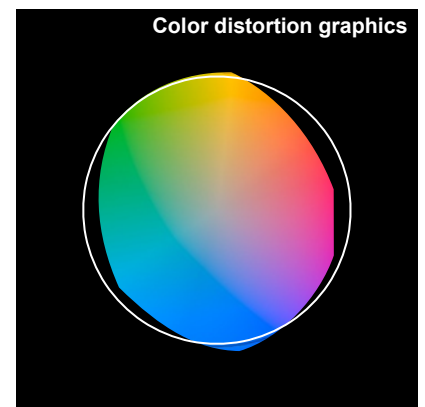
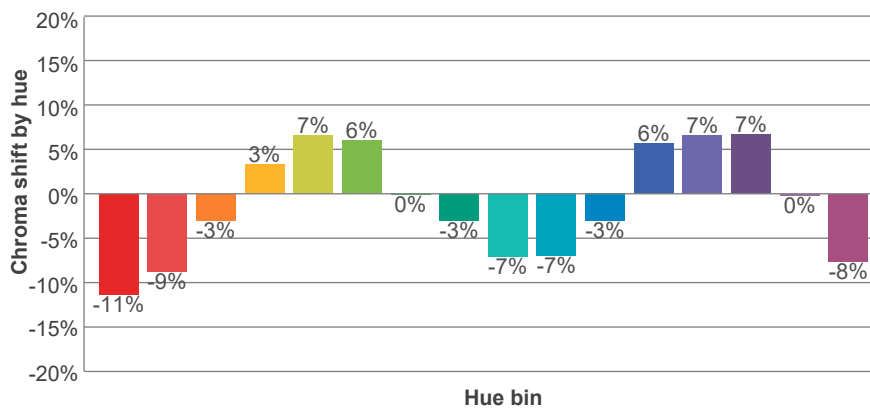
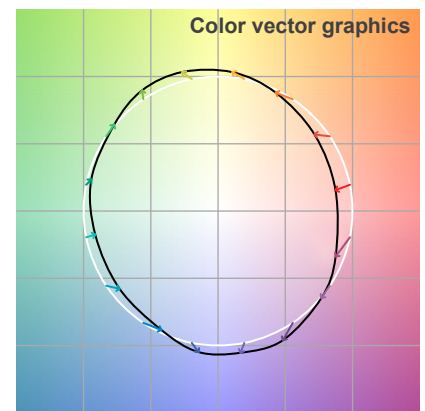
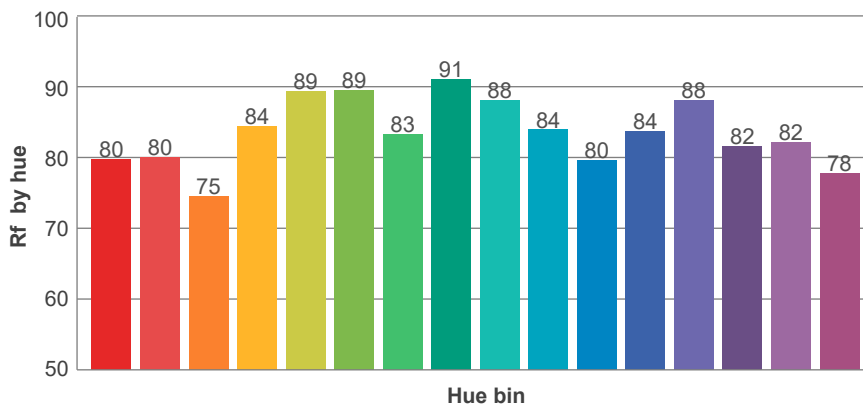
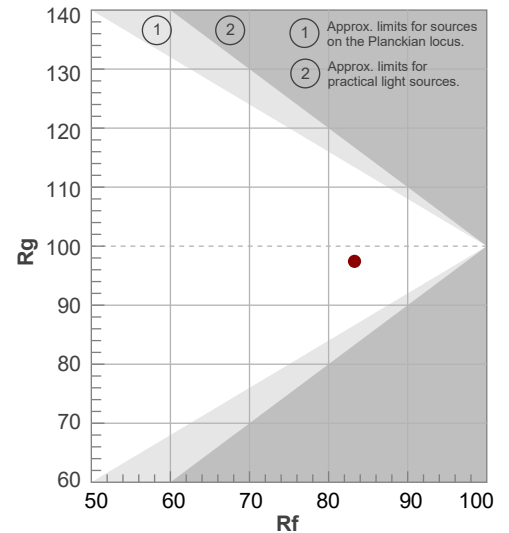
Rf 83.3

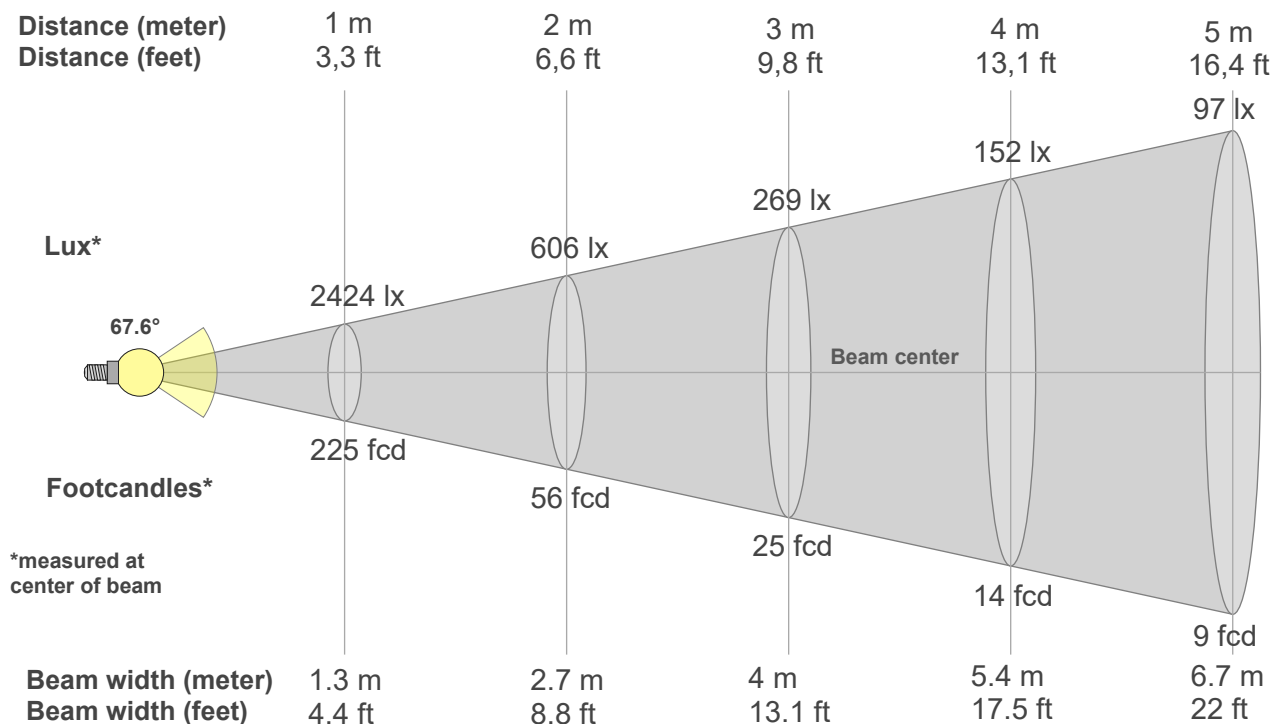
Fidelity index Rf

Rg 97.4

Gammut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 80 | -11% | -2% |
| 2 | 80 | -9% | 7% |
| 3 | 75 | -3% | 13% |
| 4 | 84 | 3% | 10% |
| 5 | 89 | 7% | 6% |
| 6 | 89 | 6% | -3% |
| 7 | 83 | 0% | -11% |
| 8 | 91 | -3% | -5% |
| 9 | 88 | -7% | -1% |
| 10 | 84 | -7% | 7% |
| 11 | 80 | -3% | 14% |
| 12 | 84 | 6% | 6% |
| 13 | 88 | 7% | -4% |
| 14 | 82 | 7% | -13% |
| 15 | 82 | 0% | -11% |
| 16 | 78 | -8% | -16% |





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 |
| 2424lx | 606lx | 269lx | 152lx | 97lx | 67lx | 49lx | 38lx | 30lx | 24lx | 20lx | 17lx | 14lx | 12lx | 11lx | 9lx | 8lx | 7lx | 7lx | 6lx |
| 225.2fcd | 56.3fcd | 25fcd | 14.1fcd | 9fcd | 6.3fcd | 4.6fcd | 3.5fcd | 2.8fcd | 2.3fcd | 1.9fcd | 1.6fcd | 1.3fcd | 1.1fcd | 1fcd | 0.9fcd | 0.8fcd | 0.7fcd | 0.6fcd | 0.6fcd |

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° |
|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2424 | 2386 | 2275 | 2106 | 1898 | 1673 | 1428 | 1136 | 816 | 501 | 281 | 181 | 143 | 116 | 84 | 48 | 24 | 8 | 0 | 0 |
| 100% | 98% | 94% | 87% | 78% | 69% | 59% | 47% | 34% | 21% | 12% | 7% | 6% | 5% | 3% | 2% | 1% | 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° |
|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2424 | 2385 | 2273 | 2100 | 1887 | 1659 | 1415 | 1120 | 803 | 492 | 275 | 179 | 142 | 114 | 82 | 47 | 23 | 8 | 0 | 0 |
| 100% | 98% | 94% | 87% | 78% | 68% | 58% | 46% | 33% | 20% | 11% | 7% | 6% | 5% | 3% | 2% | 1% | 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° |
|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2424 | 2386 | 2275 | 2106 | 1898 | 1673 | 1428 | 1136 | 816 | 501 | 281 | 181 | 143 | 116 | 84 | 48 | 24 | 8 | 0 | 0 |
| 100% | 98% | 94% | 87% | 78% | 69% | 59% | 47% | 34% | 21% | 12% | 7% | 6% | 5% | 3% | 2% | 1% | 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° |
|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2424 | 2385 | 2273 | 2100 | 1887 | 1659 | 1415 | 1120 | 803 | 492 | 275 | 179 | 142 | 114 | 82 | 47 | 23 | 8 | 0 | 0 |
| 100% | 98% | 94% | 87% | 78% | 68% | 58% | 46% | 33% | 20% | 11% | 7% | 6% | 5% | 3% | 2% | 1% | 0% | 0% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 67.6° | 106.8° | 146.3° | 94.3% | 81.8% |