

Light efficiency:

70 Lumen/Watt

Light quality:

CRI: 83.9

Color temperature:

3033 K

Output: 1160 lm

Peak: 1385 cd

Power: 16.5 W

PF: 0.96

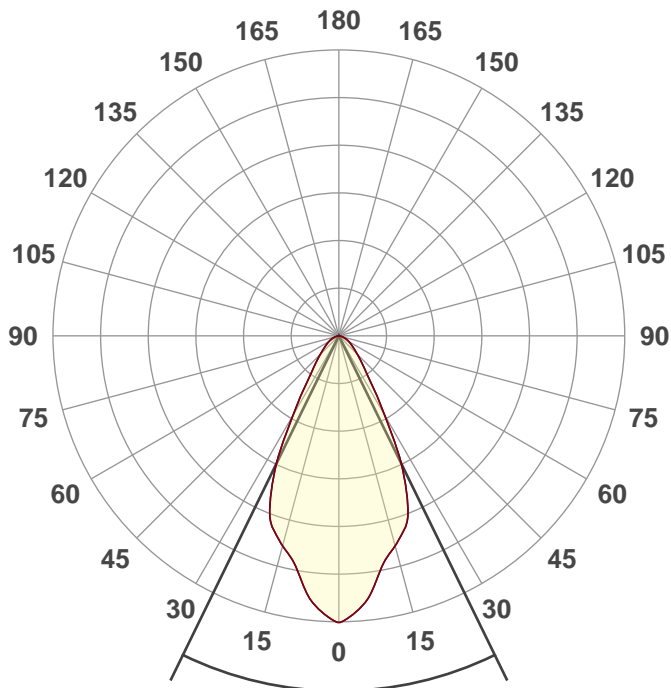


Product name:

624-RD-SW-20LM-30K-80-WH50-120-DIM10-NC-WH-WH

Date and time:

9/27/2018 12:54:53 PM



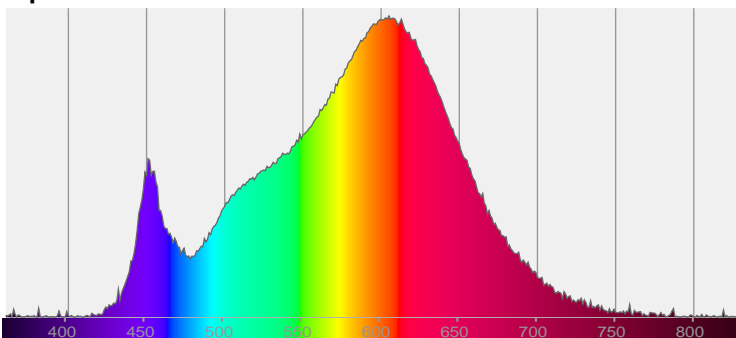
Beam angle

52.1°

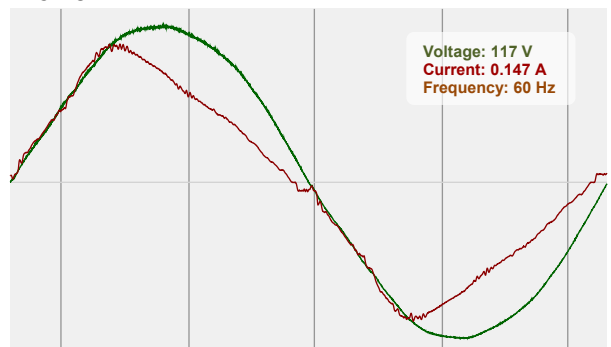


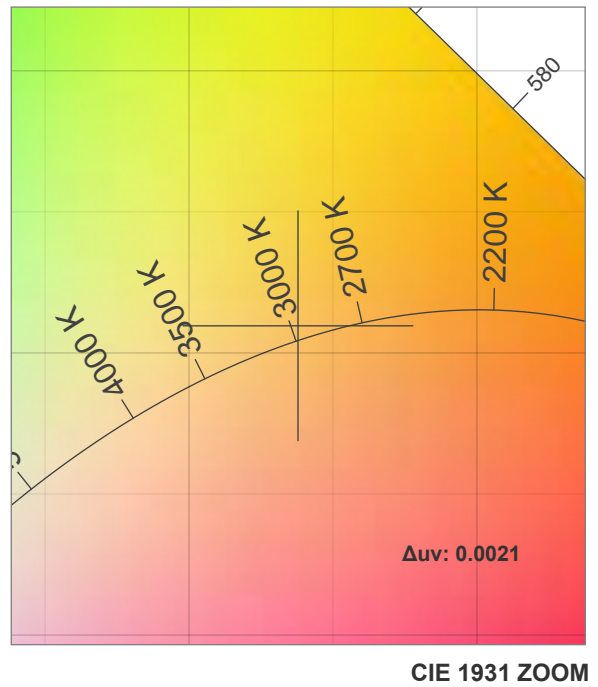
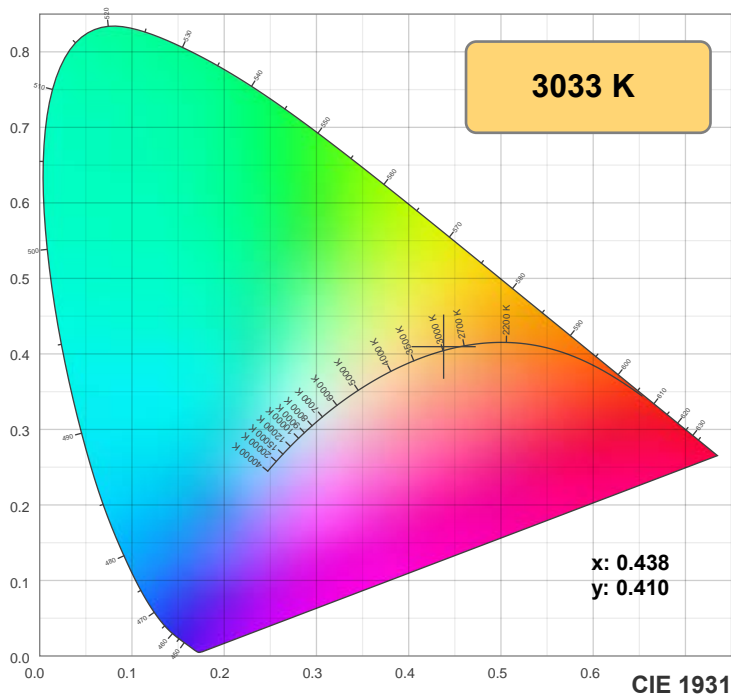
CIE 1931
x: 0.438
y: 0.410

Spectra

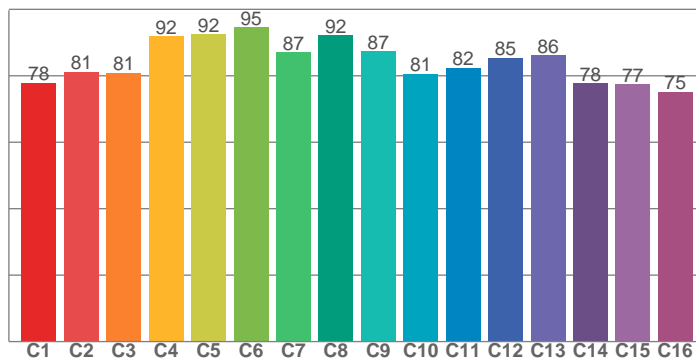


Power

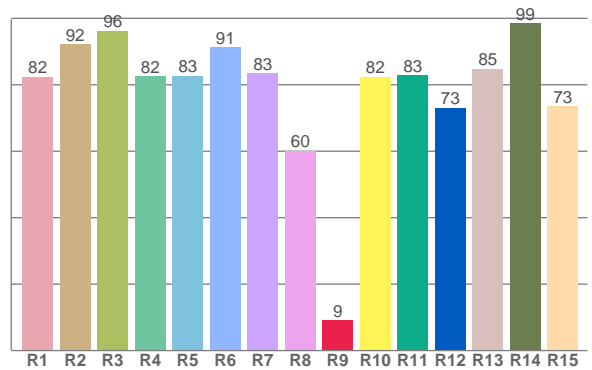




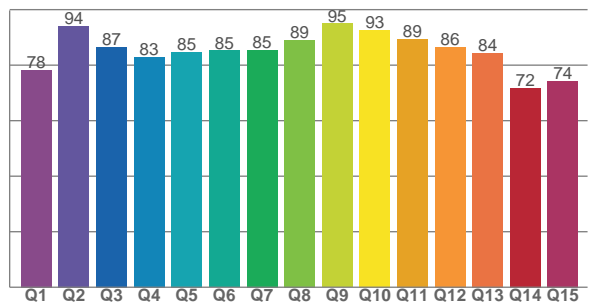
TM30: 84.6



CRI: 83.9 (R1-R8)



CQS: 83.8



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 |
|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 82.4 | 92.1 | 96.3 | 82.5 | 82.7 | 91.3 | 83.4 | 60.1 | 9.1 | 82.5 | 82.8 | 73.1 | 84.8 | 98.5 | 73.5 |

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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 77.9 | 81.2 | 80.9 | 91.9 | 92.4 | 94.5 | 87.1 | 92.2 | 87.4 | 80.6 | 82.4 | 85.4 | 86.1 | 77.8 | 77.4 | 75.1 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78.2 | 94.1 | 86.5 | 83.0 | 84.7 | 85.3 | 85.4 | 89.0 | 95.0 | 92.6 | 89.5 | 86.5 | 84.3 | 71.8 | 74.2 |

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 |
| 3033 K | 83.9 | 9.1 | 84.6 | 94.3 | 83.8 | 0.438 | 0.410 | 0.249 | 0.349 | 0.0021 |

TM30 Details

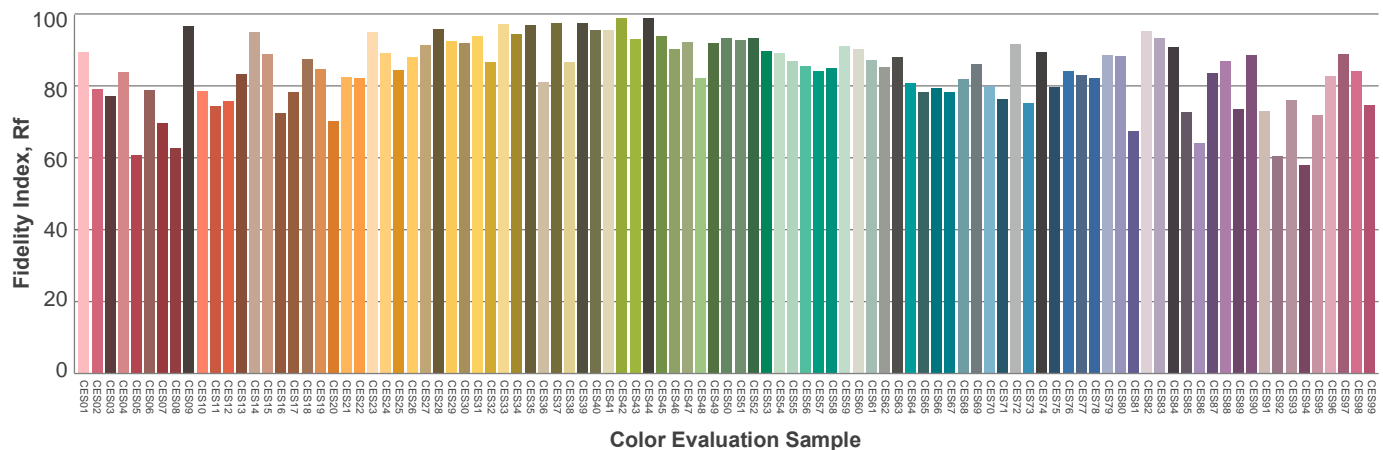
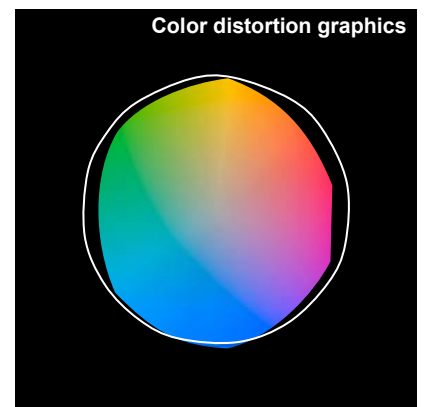
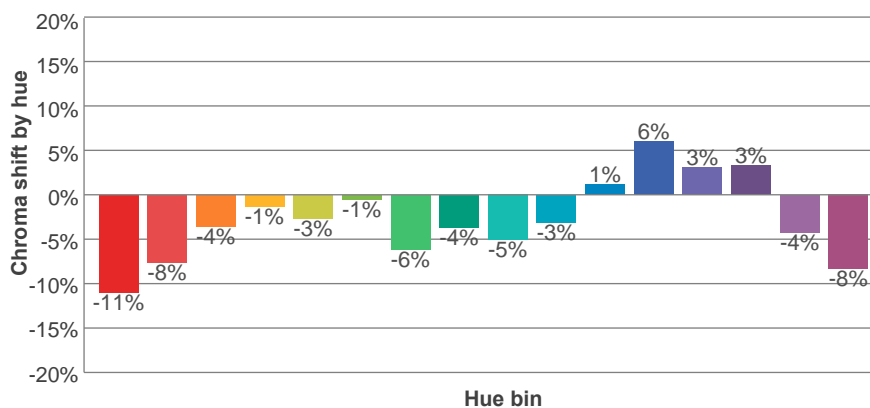
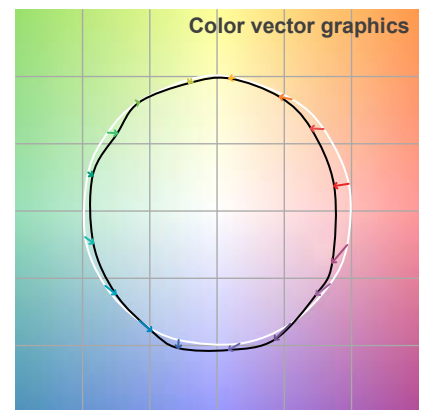
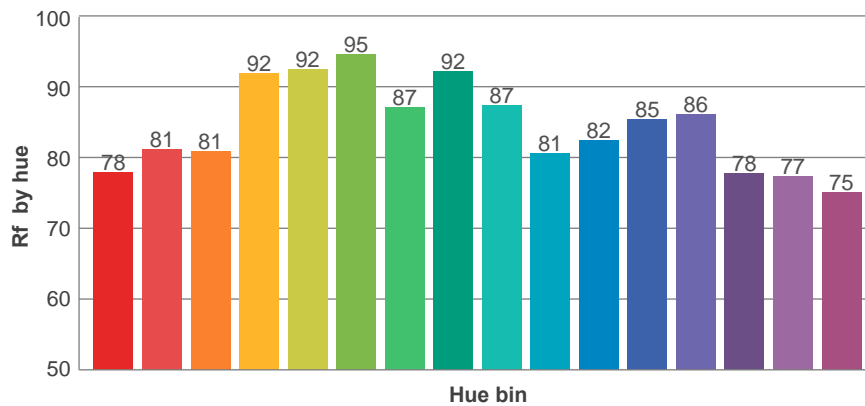
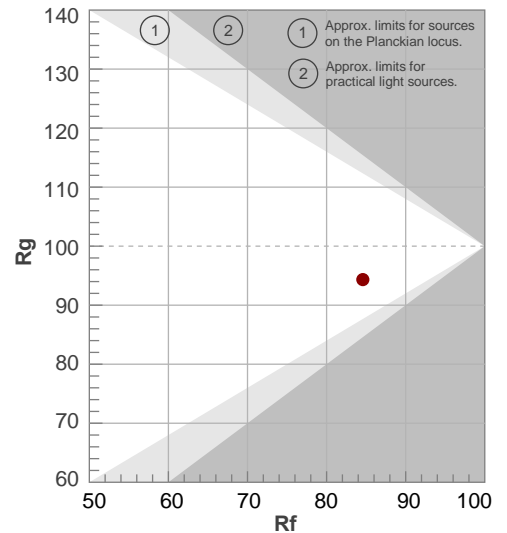
Rf 84.6

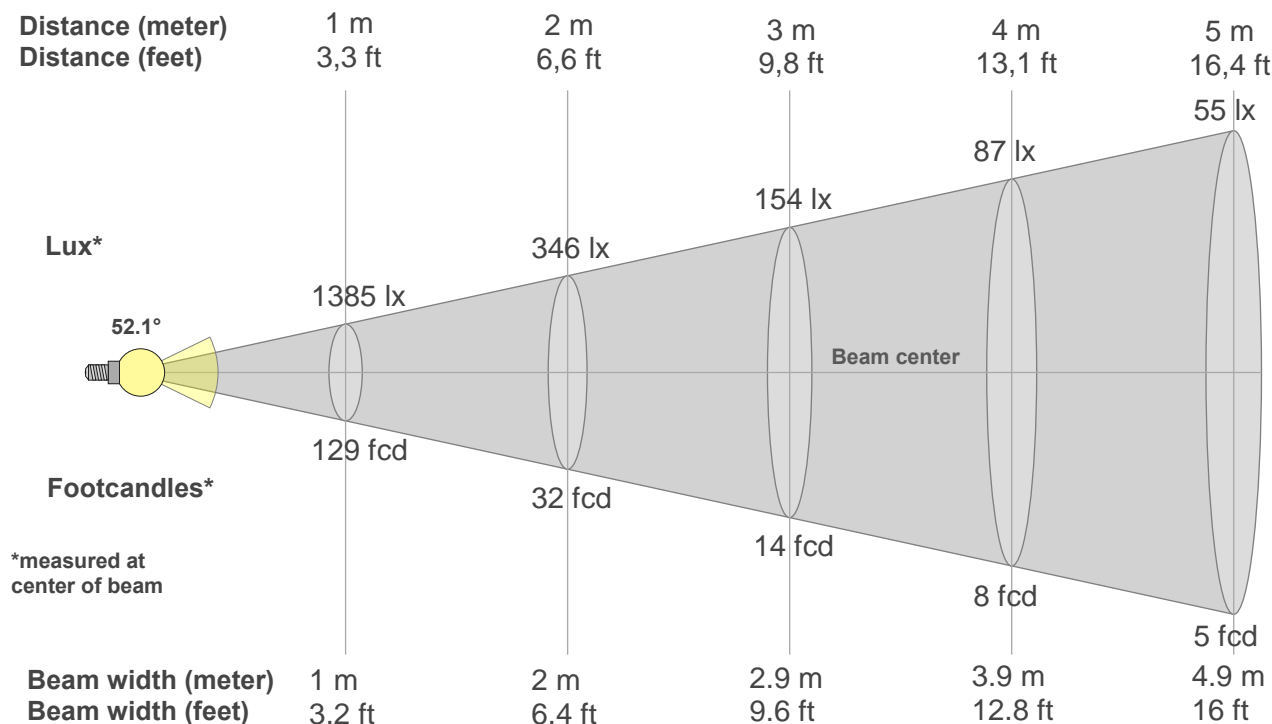
Fidelity index Rf

Rg 94.3

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 78 | -11% | 0% |
| 2 | 81 | -8% | 6% |
| 3 | 81 | -4% | 8% |
| 4 | 92 | -1% | 4% |
| 5 | 92 | -3% | 2% |
| 6 | 95 | -1% | -2% |
| 7 | 87 | -6% | -3% |
| 8 | 92 | -4% | 2% |
| 9 | 87 | -5% | 6% |
| 10 | 81 | -3% | 9% |
| 11 | 82 | 1% | 11% |
| 12 | 85 | 6% | 1% |
| 13 | 86 | 3% | -9% |
| 14 | 78 | 3% | -16% |
| 15 | 77 | -4% | -12% |
| 16 | 75 | -8% | -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 |
| 1385lx | 346lx | 154lx | 87lx | 55lx | 38lx | 28lx | 22lx | 17lx | 14lx | 11lx | 10lx | 8lx | 7lx | 6lx | 5lx | 5lx | 4lx | 4lx | 3lx |
| 128.7fcd | 32.2fcd | 14.3fcd | 8fcd | 5.1fcd | 3.6fcd | 2.6fcd | 2fcd | 1.6fcd | 1.3fcd | 1.1fcd | 0.9fcd | 0.8fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.4fcd | 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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1385 | 1371 | 1333 | 1296 | 1233 | 1167 | 1113 | 1078 | 1043 | 1001 | 958 | 891 | 793 | 695 | 577 | 459 | 367 | 302 | 238 | 209 |
| 100% | 99% | 96% | 94% | 89% | 84% | 80% | 78% | 75% | 72% | 69% | 64% | 57% | 50% | 42% | 33% | 27% | 22% | 17% | 15% |

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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1385 | 1371 | 1333 | 1296 | 1233 | 1167 | 1113 | 1078 | 1043 | 1001 | 958 | 891 | 793 | 695 | 577 | 459 | 367 | 302 | 238 | 209 |
| 100% | 99% | 96% | 94% | 89% | 84% | 80% | 78% | 75% | 72% | 69% | 64% | 57% | 50% | 42% | 33% | 27% | 22% | 17% | 15% |

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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1385 | 1371 | 1333 | 1296 | 1233 | 1167 | 1113 | 1078 | 1043 | 1001 | 958 | 891 | 793 | 695 | 577 | 459 | 367 | 302 | 238 | 209 |
| 100% | 99% | 96% | 94% | 89% | 84% | 80% | 78% | 75% | 72% | 69% | 64% | 57% | 50% | 42% | 33% | 27% | 22% | 17% | 15% |

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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1385 | 1371 | 1333 | 1296 | 1233 | 1167 | 1113 | 1078 | 1043 | 1001 | 958 | 891 | 793 | 695 | 577 | 459 | 367 | 302 | 238 | 209 |
| 100% | 99% | 96% | 94% | 89% | 84% | 80% | 78% | 75% | 72% | 69% | 64% | 57% | 50% | 42% | 33% | 27% | 22% | 17% | 15% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 52.1° | 88° | 135.4° | 94.1% | 84.5% |