

Light efficiency:

81 Lumen/Watt

Light quality:

CRI: 81.8

Color temperature:

3046 K

Output: 3091 lm

Peak: 4112 cd

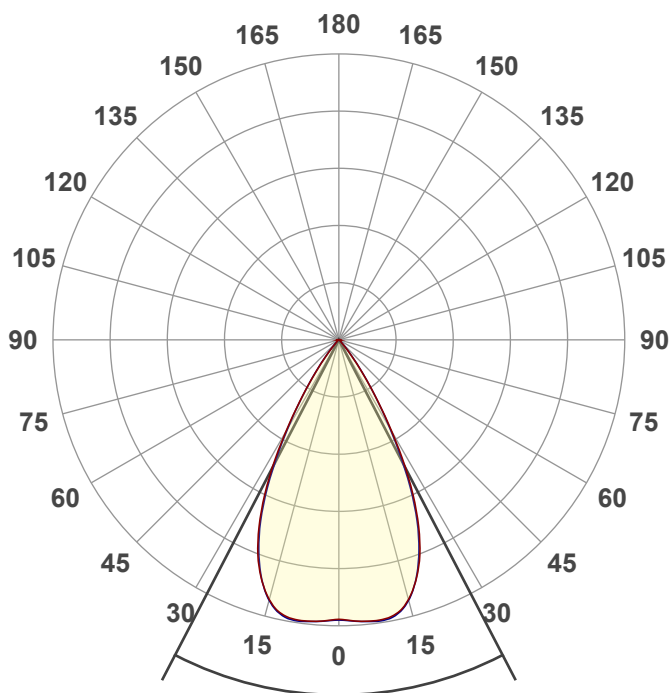
Power: 38.3 W

PF: 0.98



NU3-RA-SW-40LM-30K-80-55D-NA-NL-WH

Date and time:  
6/1/2022 9:35:53 AM



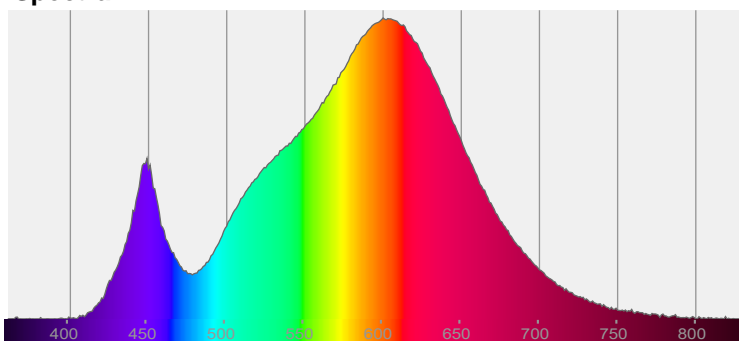
Beam angle

54.9°

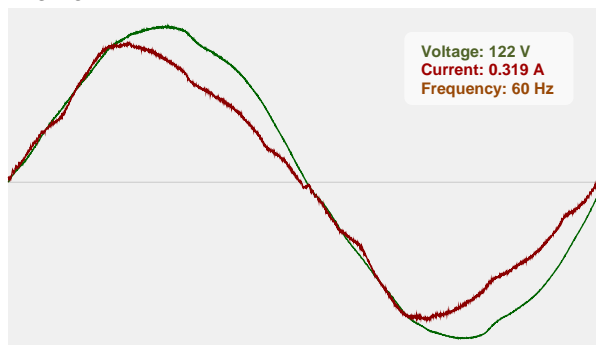


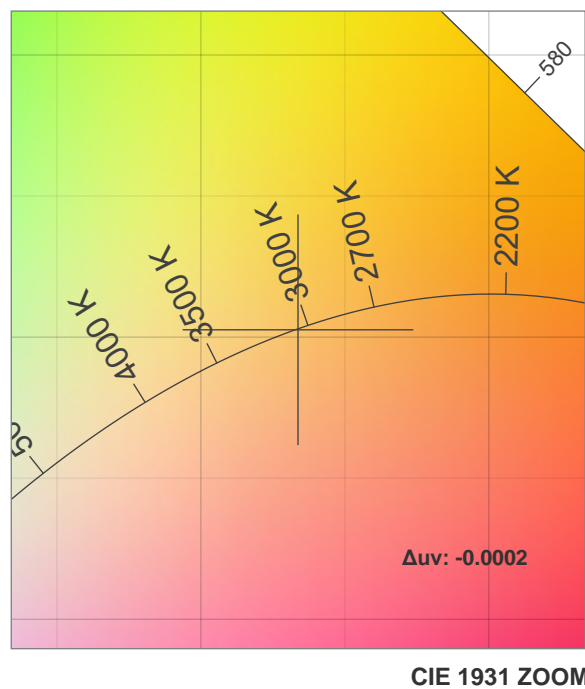
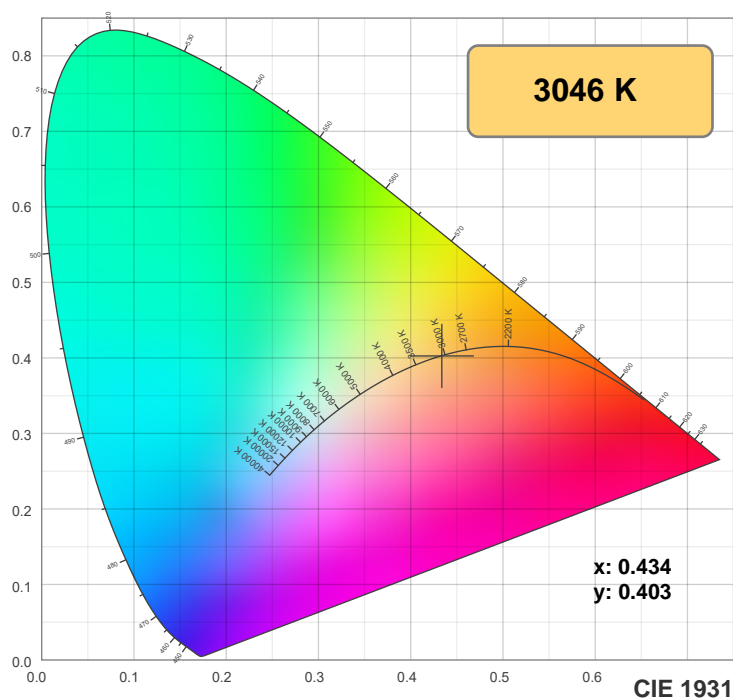
CIE 1931  
x: 0.434  
y: 0.403

Spectra

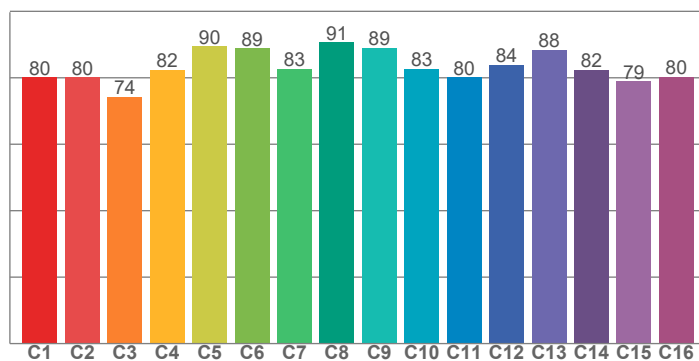


Power

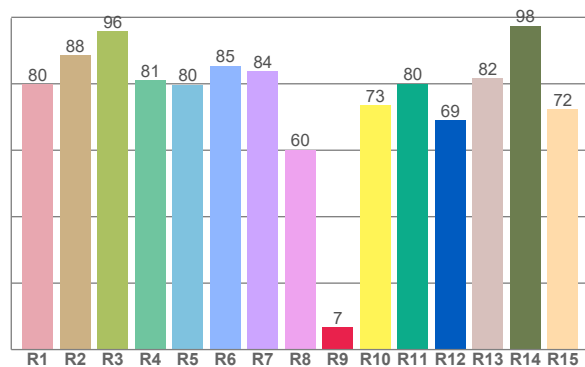




TM30: 83.3



CRI: 81.8 (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  |
|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 80.0 | 88.5 | 95.8 | 81.0 | 79.7 | 85.4 | 83.8 | 60.2 | 6.8 | 73.5 | 80.0 | 69.1 | 81.7 | 97.5 | 72.4 |

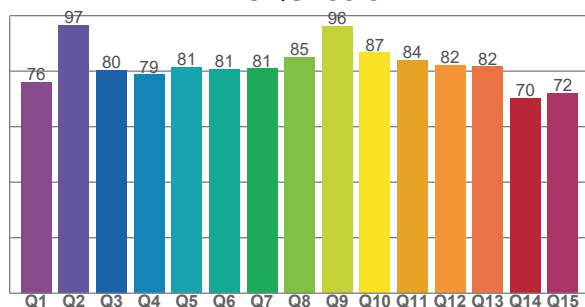
TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.1 | 80.1 | 74.3 | 82.4 | 89.5 | 88.9 | 82.7 | 90.7 | 88.9 | 82.6 | 80.2 | 83.8 | 88.4 | 82.3 | 78.9 | 80.3 |

CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 76.1 | 96.5 | 80.4 | 78.7 | 81.4 | 80.6 | 80.9 | 85.0 | 96.2 | 86.7 | 83.9 | 82.1 | 81.6 | 70.4 | 72.2 |

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                             |
| 3046 K            | 81.8                  | 6.8           | 83.3           | 97.9        | 80.8                | 0.434                     | 0.403                     | 0.249            | 0.347            | -0.0002                         |

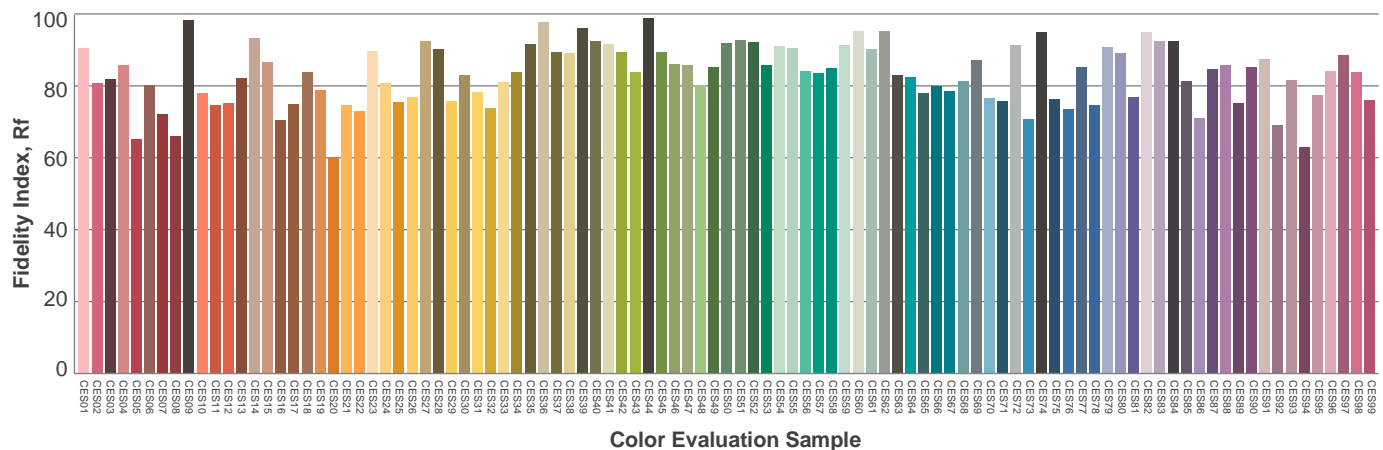
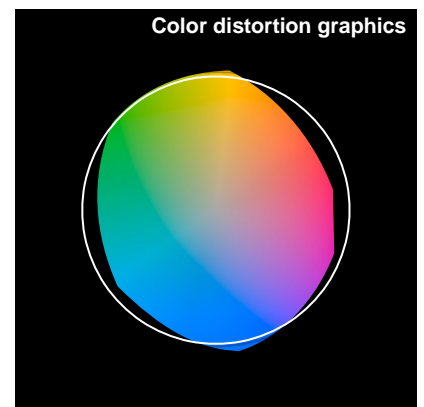
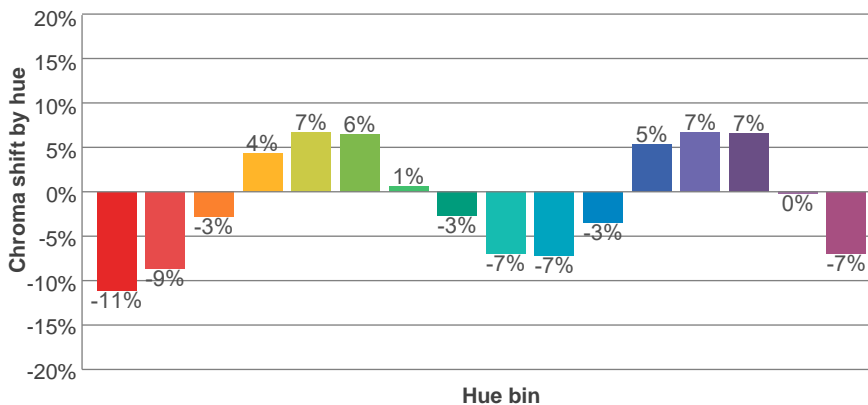
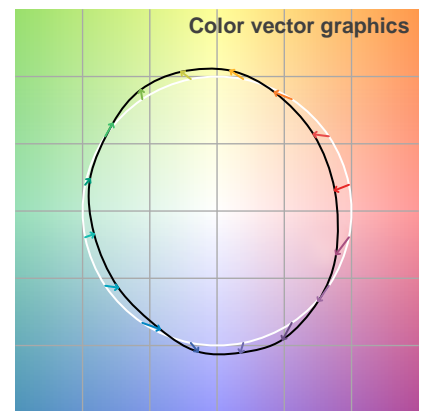
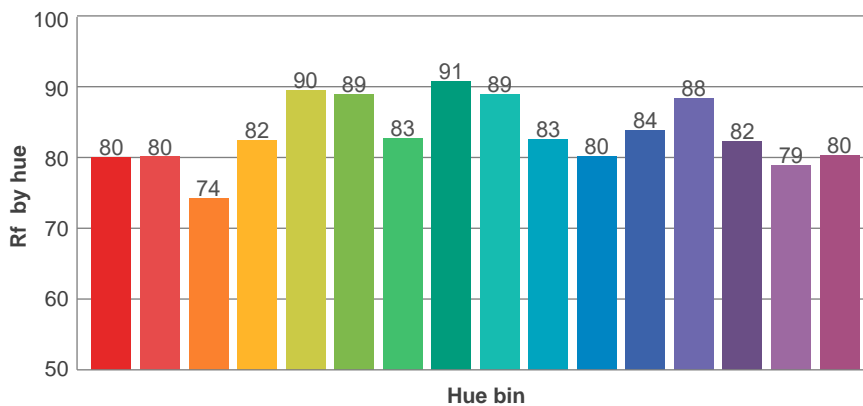
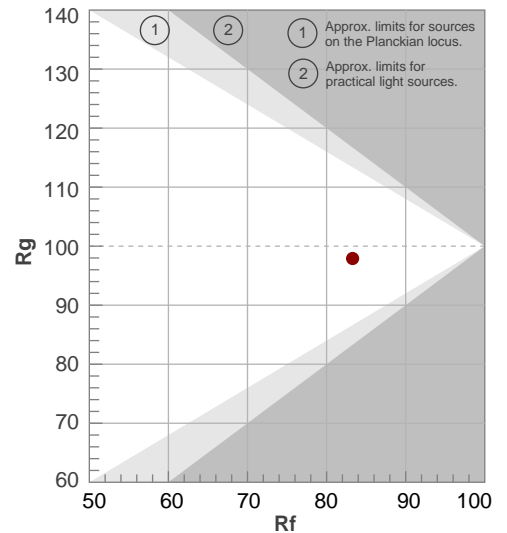
**Rf 83.3**

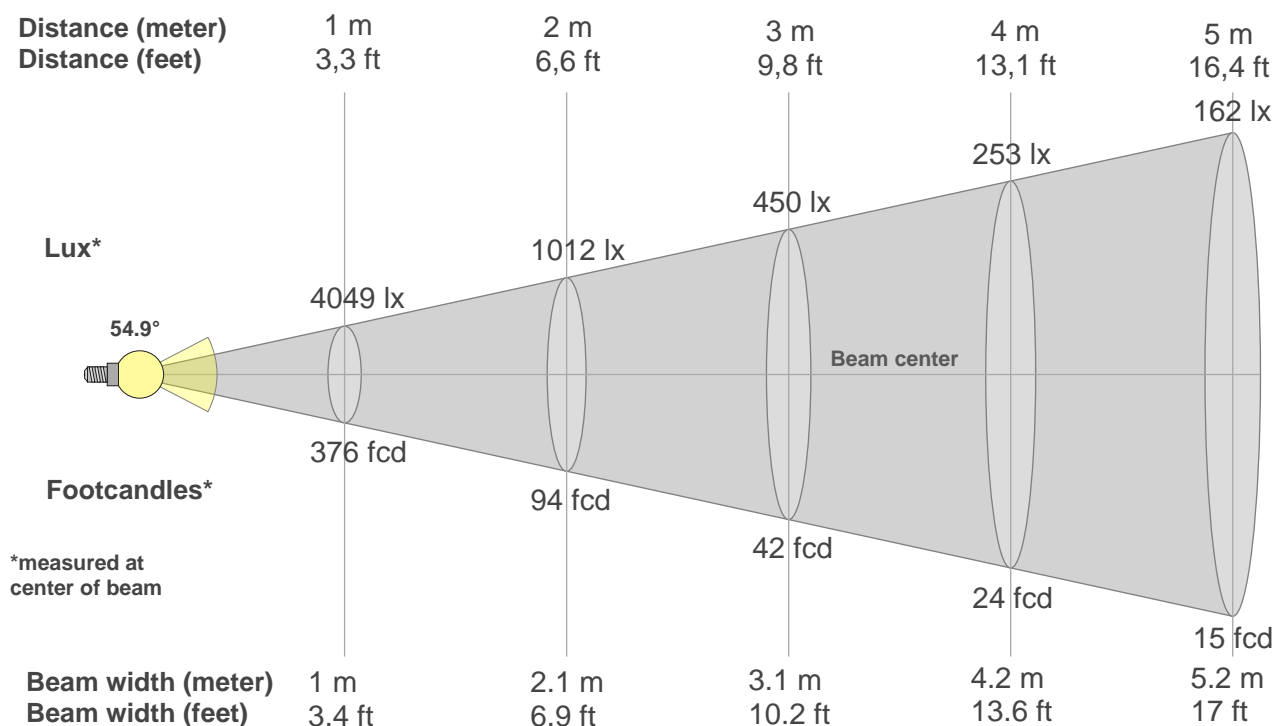
Fidelity index Rf

**Rg 97.9**

Gamut index Rg

| Hue Bin | R <sub>f</sub> | Graphic shifts (%) |      |
|---------|----------------|--------------------|------|
|         |                | Chroma             | Hue  |
| 1       | 80             | -11%               | -2%  |
| 2       | 80             | -9%                | 8%   |
| 3       | 74             | -3%                | 13%  |
| 4       | 82             | 4%                 | 11%  |
| 5       | 90             | 7%                 | 6%   |
| 6       | 89             | 6%                 | -3%  |
| 7       | 83             | 1%                 | -11% |
| 8       | 91             | -3%                | -5%  |
| 9       | 89             | -7%                | -1%  |
| 10      | 83             | -7%                | 6%   |
| 11      | 80             | -3%                | 13%  |
| 12      | 84             | 5%                 | 6%   |
| 13      | 88             | 7%                 | -3%  |
| 14      | 82             | 7%                 | -13% |
| 15      | 79             | 0%                 | -14% |
| 16      | 80             | -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 |
| 4049lx   | 1012lx | 450lx   | 253lx   | 162lx  | 112lx   | 83lx   | 63lx   | 50lx   | 40lx   | 33lx   | 28lx   | 24lx   | 21lx   | 18lx   | 16lx   | 14lx   | 12lx   | 11lx   | 10lx   |
| 376.1fcd | 94fcd  | 41.8fcd | 23.5fcd | 15fcd  | 10.4fcd | 7.7fcd | 5.9fcd | 4.6fcd | 3.8fcd | 3.1fcd | 2.6fcd | 2.2fcd | 1.9fcd | 1.7fcd | 1.5fcd | 1.3fcd | 1.2fcd | 1fcd   | 0.9fcd |

#### 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 4049 | 4046 | 4065 | 4077 | 4082 | 4067 | 4021 | 3933 | 3796 | 3616 | 3387 | 3103 | 2768 | 2390 | 1971 | 1533 | 1140 | 806 | 535 | 324 |
| 100% | 100% | 100% | 101% | 101% | 100% | 99%  | 97%  | 94%  | 89%  | 84%  | 77%  | 68%  | 59%  | 49%  | 38%  | 28%  | 20% | 13% | 8%  |

#### 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 4049 | 4052 | 4069 | 4083 | 4094 | 4083 | 4036 | 3946 | 3807 | 3604 | 3354 | 3061 | 2719 | 2325 | 1889 | 1479 | 1110 | 794 | 536 | 341 |
| 100% | 100% | 101% | 101% | 101% | 101% | 100% | 97%  | 94%  | 89%  | 83%  | 76%  | 67%  | 57%  | 47%  | 37%  | 27%  | 20% | 13% | 8%  |

#### 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 4049 | 4046 | 4065 | 4077 | 4082 | 4067 | 4021 | 3933 | 3796 | 3616 | 3387 | 3103 | 2768 | 2390 | 1971 | 1533 | 1140 | 806 | 535 | 324 |
| 100% | 100% | 100% | 101% | 101% | 100% | 99%  | 97%  | 94%  | 89%  | 84%  | 77%  | 68%  | 59%  | 49%  | 38%  | 28%  | 20% | 13% | 8%  |

#### 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 4049 | 4052 | 4069 | 4083 | 4094 | 4083 | 4036 | 3946 | 3807 | 3604 | 3354 | 3061 | 2719 | 2325 | 1889 | 1479 | 1110 | 794 | 536 | 341 |
| 100% | 100% | 101% | 101% | 101% | 101% | 100% | 97%  | 94%  | 89%  | 83%  | 76%  | 67%  | 57%  | 47%  | 37%  | 27%  | 20% | 13% | 8%  |

| Beam angle 50° | Field angle 10° | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 54.9°          | 74.4°           | 84.3°             | 99.7%                        | 99.0%                       |