

Light efficiency:

74 Lumen/Watt

Light quality:

CRI: 81.0

Color temperature:

3073 K

Output: 3010 lm

Peak: 3359 cd

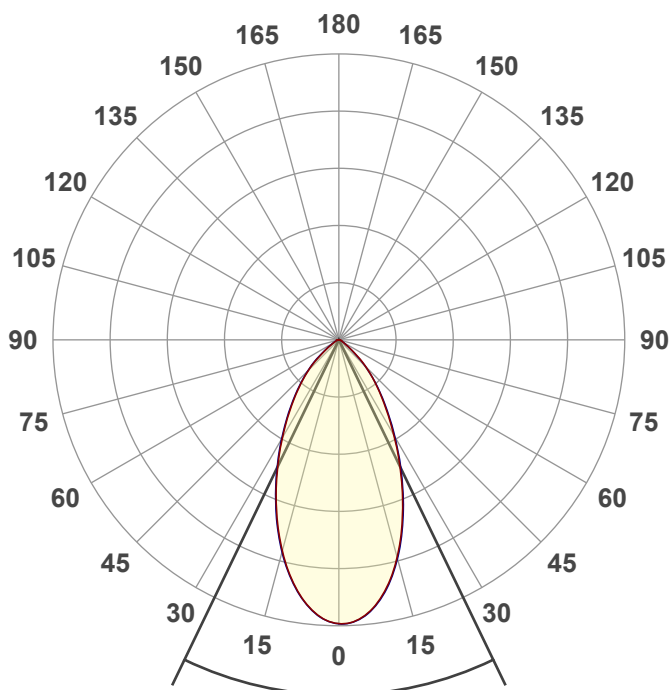
Power: 40.7 W

PF: 0.98



NU3-RD-SW-40LM-30K-80-40D-DL-WH-WH

Date and time:  
11/9/2020 1:25:20 PM



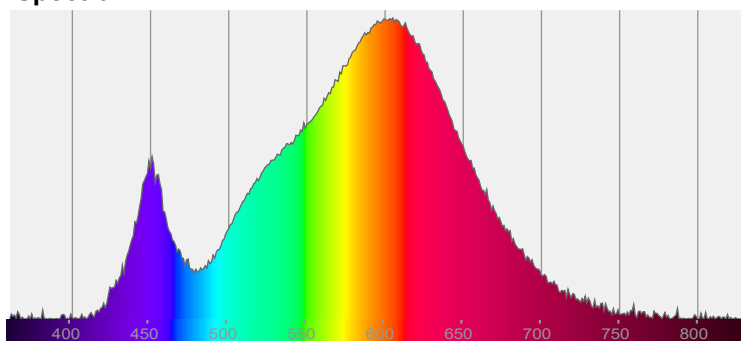
Beam angle

51.5°

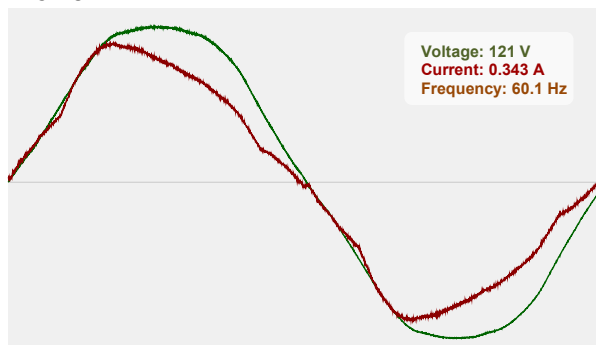


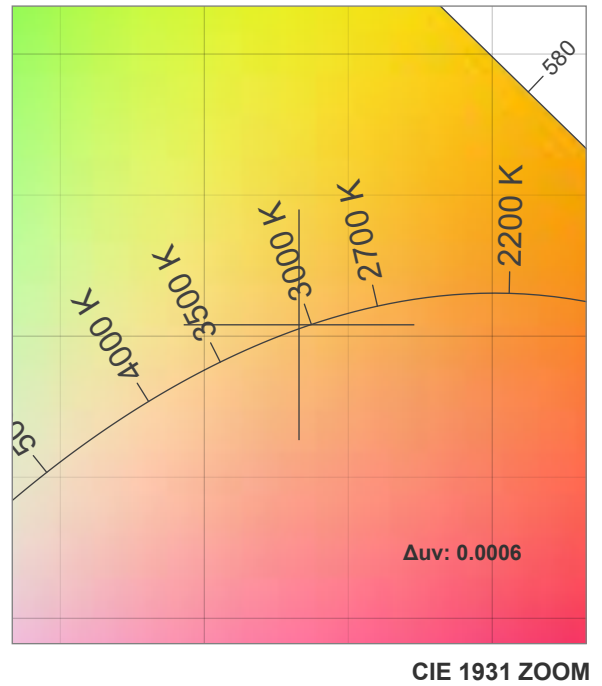
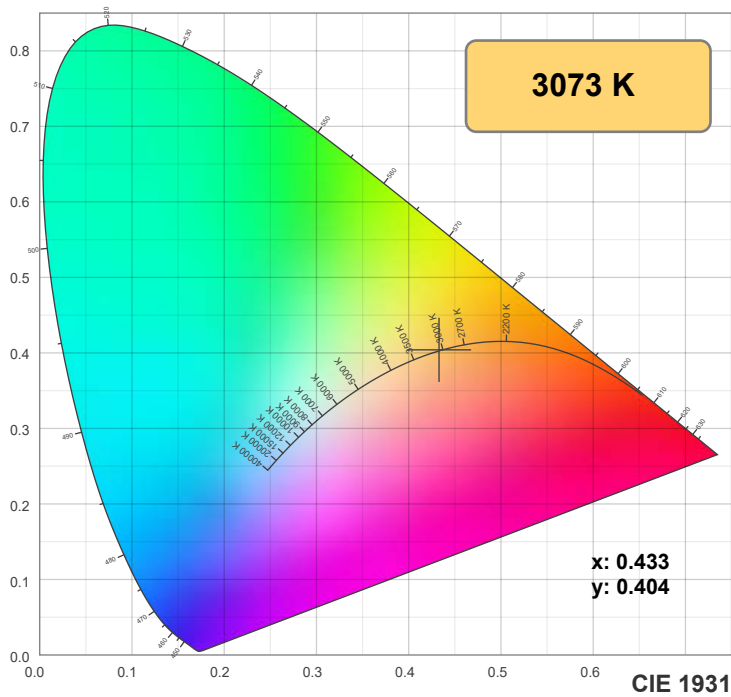
CIE 1931  
x: 0.433  
y: 0.404

Spectra

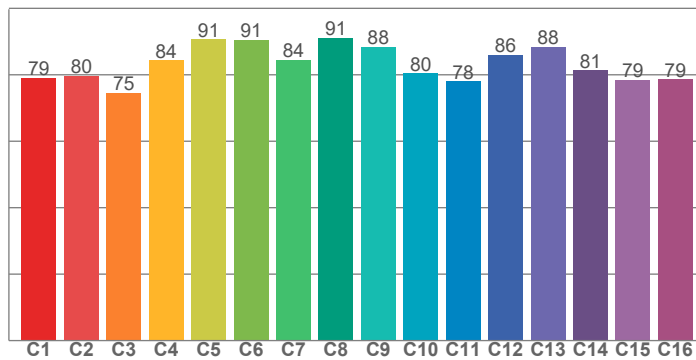


Power

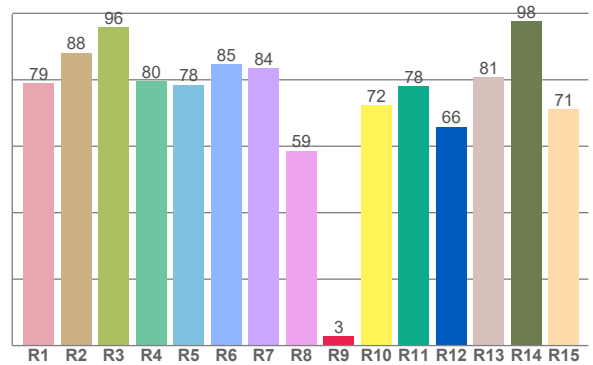




TM30: 83.2



CRI: 81.0 (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  |
|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 78.9 | 88.1 | 95.9 | 79.6 | 78.5 | 84.7 | 83.5 | 58.7 | 2.8 | 72.4 | 78.0 | 65.9 | 80.8 | 97.6 | 71.2 |

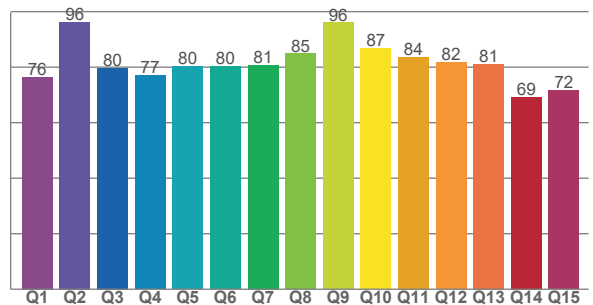
TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.1 | 79.6 | 74.5 | 84.3 | 90.7 | 90.5 | 84.5 | 91.1 | 88.4 | 80.4 | 78.0 | 86.1 | 88.4 | 81.3 | 78.5 | 78.6 |

CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 76.4 | 96.2 | 79.6 | 77.1 | 80.3 | 80.3 | 80.7 | 84.8 | 96.1 | 86.8 | 83.7 | 81.8 | 81.1 | 69.3 | 71.6 |

CQS: 80.3



## 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                             |
| 3073 K            | 81.0                  | 2.8           | 83.2           | 96.8        | 80.3                | 0.433                     | 0.404                     | 0.248            | 0.347            | 0.0006                          |

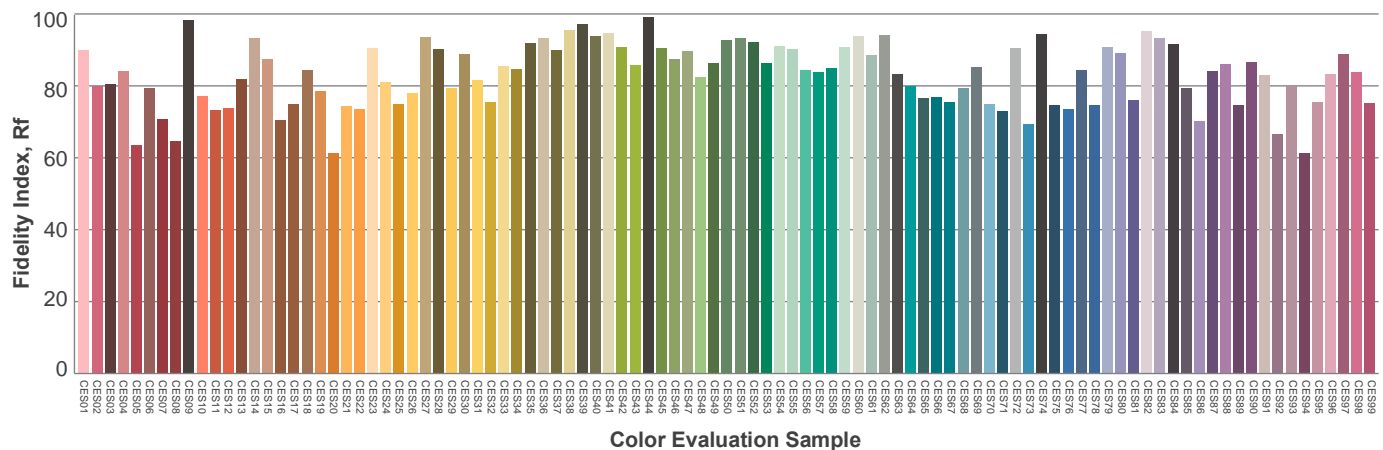
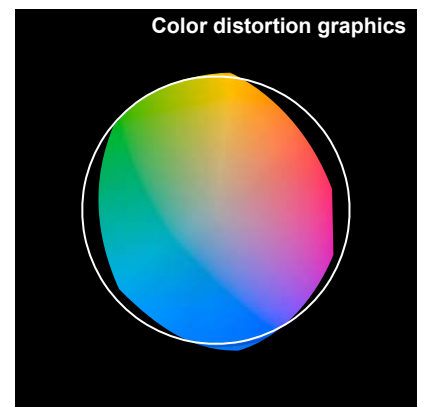
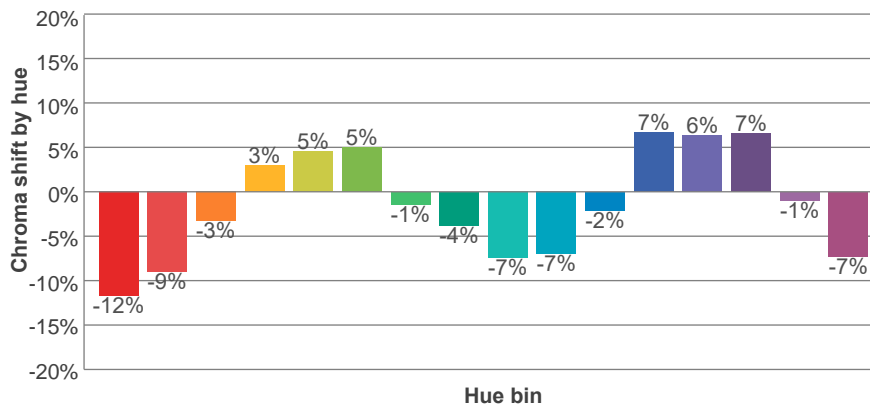
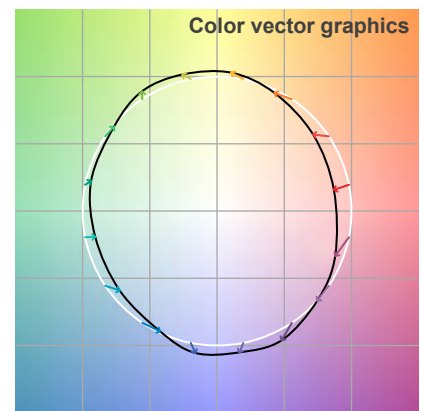
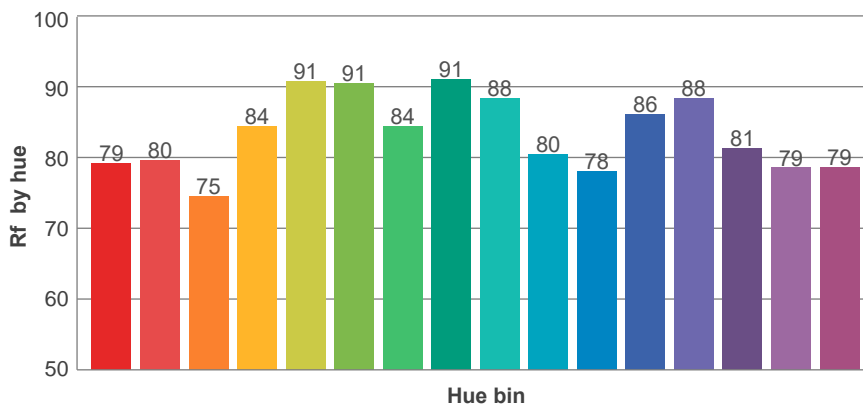
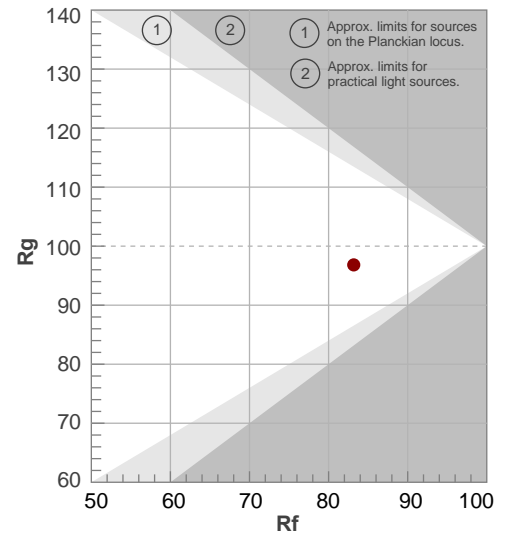
**Rf 83.2**

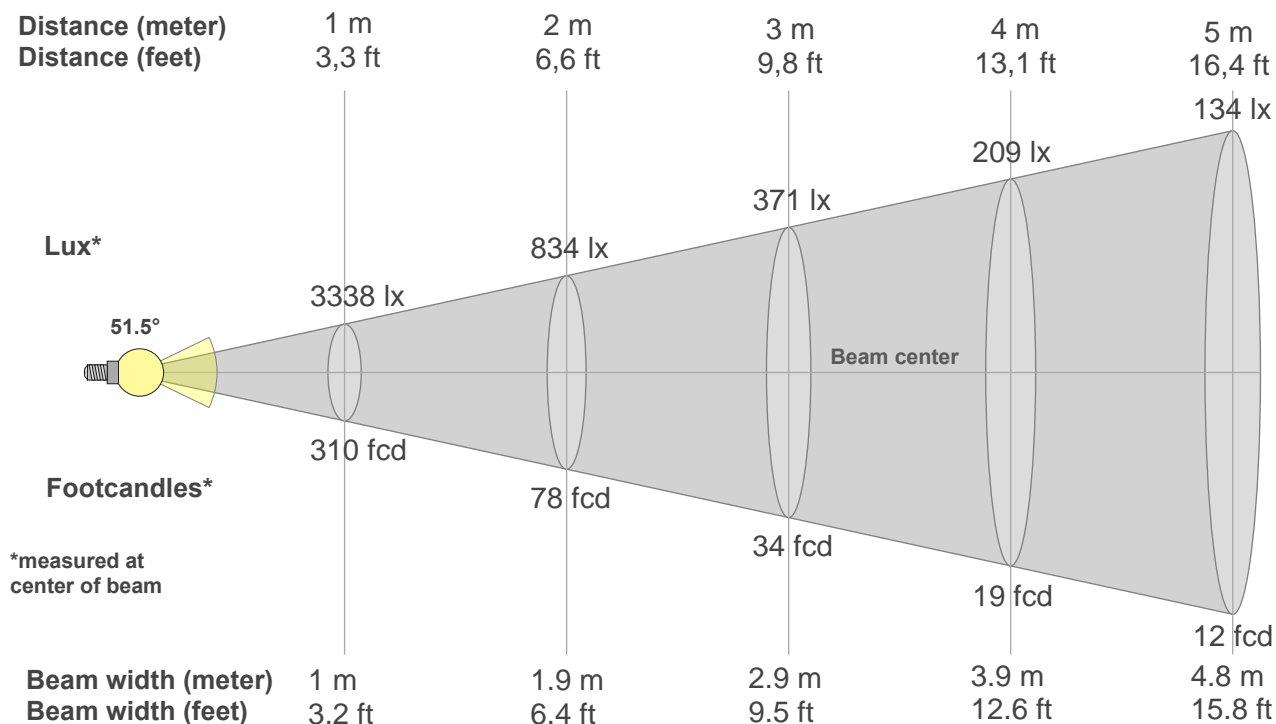
Fidelity index Rf

**Rg 96.8**

Gamut index Rg

| Hue Bin | R <sub>f</sub> | Graphic shifts (%) |      |
|---------|----------------|--------------------|------|
|         |                | Chroma             | Hue  |
| 1       | 79             | -12%               | -1%  |
| 2       | 80             | -9%                | 8%   |
| 3       | 75             | -3%                | 13%  |
| 4       | 84             | 3%                 | 10%  |
| 5       | 91             | 5%                 | 5%   |
| 6       | 91             | 5%                 | -3%  |
| 7       | 84             | -1%                | -10% |
| 8       | 91             | -4%                | -4%  |
| 9       | 88             | -7%                | 1%   |
| 10      | 80             | -7%                | 9%   |
| 11      | 78             | -2%                | 14%  |
| 12      | 86             | 7%                 | 5%   |
| 13      | 88             | 6%                 | -4%  |
| 14      | 81             | 7%                 | -13% |
| 15      | 79             | -1%                | -14% |
| 16      | 79             | -7%                | -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 |
| 3338lx   | 834lx   | 371lx   | 209lx   | 134lx   | 93lx   | 68lx   | 52lx   | 41lx   | 33lx   | 28lx   | 23lx   | 20lx   | 17lx   | 15lx   | 13lx   | 12lx   | 10lx   | 9lx    | 8lx    |
| 310.1fcd | 77.5fcd | 34.5fcd | 19.4fcd | 12.4fcd | 8.6fcd | 6.3fcd | 4.8fcd | 3.8fcd | 3.1fcd | 2.6fcd | 2.2fcd | 1.8fcd | 1.6fcd | 1.4fcd | 1.2fcd | 1.1fcd | 1fcd   | 0.9fcd | 0.8fcd |

#### 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| 3338 | 3345 | 3296 | 3234 | 3150 | 3026 | 2902 | 2737 | 2567 | 2389 | 2200 | 2010 | 1827 | 1644 | 1472 | 1309 | 1149 | 1021 | 893 | 782 |
| 100% | 100% | 99%  | 97%  | 94%  | 91%  | 87%  | 82%  | 77%  | 72%  | 66%  | 60%  | 55%  | 49%  | 44%  | 39%  | 34%  | 31%  | 27% | 23% |

#### 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| 3338 | 3340 | 3298 | 3257 | 3150 | 3043 | 2908 | 2750 | 2591 | 2405 | 2220 | 2034 | 1849 | 1666 | 1497 | 1329 | 1181 | 1042 | 910 | 798 |
| 100% | 100% | 99%  | 98%  | 94%  | 91%  | 87%  | 82%  | 78%  | 72%  | 66%  | 61%  | 55%  | 50%  | 45%  | 40%  | 35%  | 31%  | 27% | 24% |

#### 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| 3338 | 3322 | 3261 | 3179 | 3085 | 2951 | 2818 | 2659 | 2494 | 2327 | 2153 | 1980 | 1813 | 1647 | 1488 | 1341 | 1193 | 1069 | 946 | 835 |
| 100% | 100% | 98%  | 95%  | 92%  | 88%  | 84%  | 80%  | 75%  | 70%  | 65%  | 59%  | 54%  | 49%  | 45%  | 40%  | 36%  | 32%  | 28% | 25% |

#### 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| 3338 | 3313 | 3278 | 3183 | 3087 | 2963 | 2822 | 2676 | 2509 | 2342 | 2170 | 1998 | 1828 | 1667 | 1506 | 1360 | 1218 | 1084 | 967 | 850 |
| 100% | 99%  | 98%  | 95%  | 92%  | 89%  | 85%  | 80%  | 75%  | 70%  | 65%  | 60%  | 55%  | 50%  | 45%  | 41%  | 36%  | 32%  | 29% | 25% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 51.5°          | 96.9°           | 117.3°            | 97.8%                        | 88.6%                       |