

Light efficiency:

67 Lumen/Watt

Light quality:

CRI: 81.2

Color temperature:

2914 K

Output: 812 lm

Peak: 2195 cd

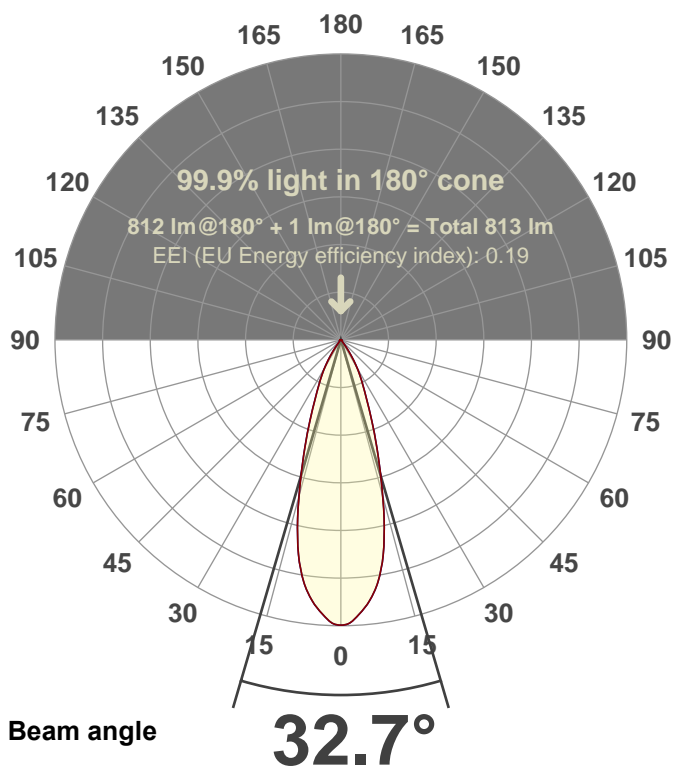
Power: 12.2 W

PF: 0.98



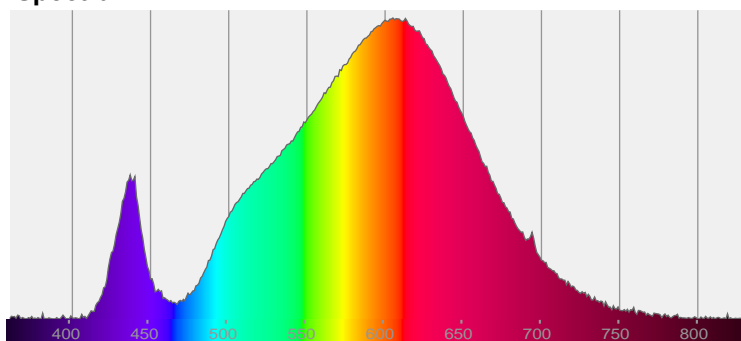
112250-XTM19-11LM-30K-83-SA40-UNV-  
ELV-WH-CLR

Date and time:  
12/16/2019 3:22:28 PM

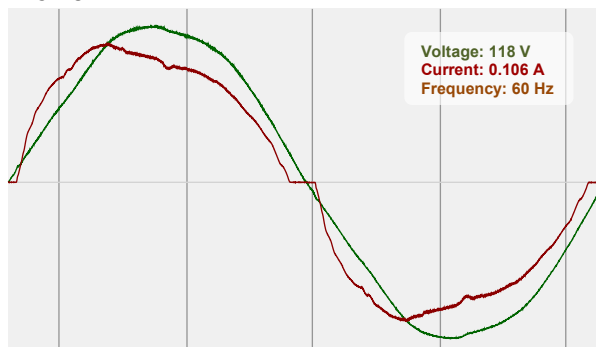


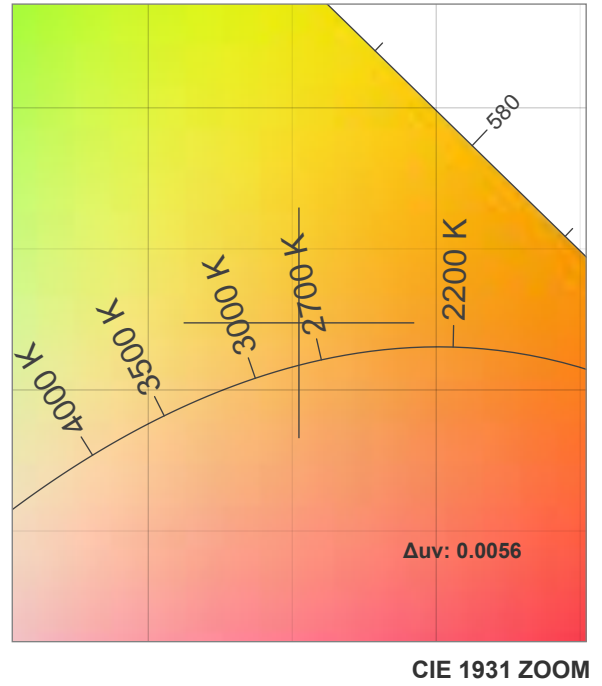
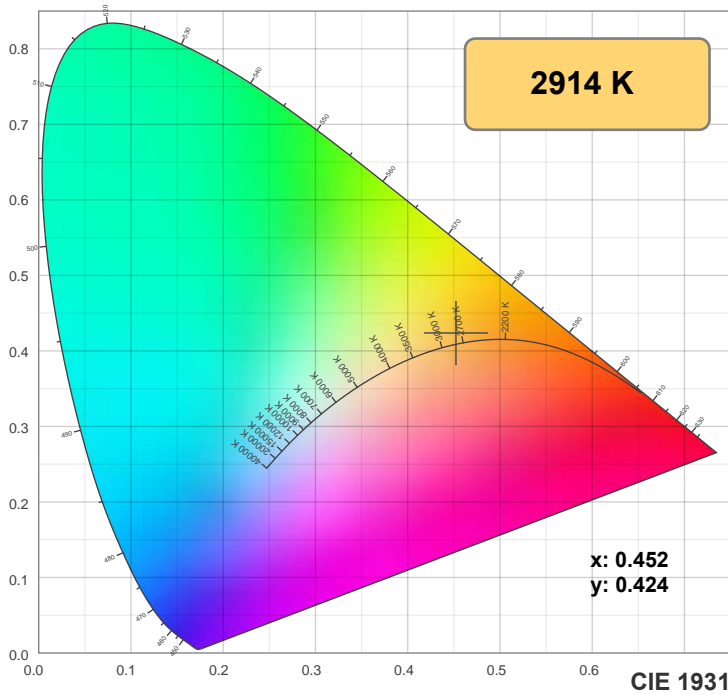
CIE 1931  
x: 0.452  
y: 0.424

Spectra

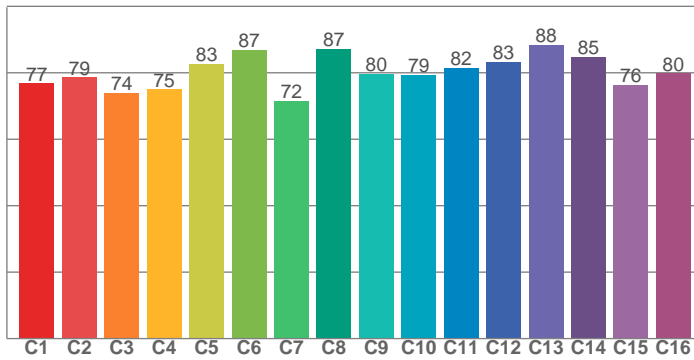


Power

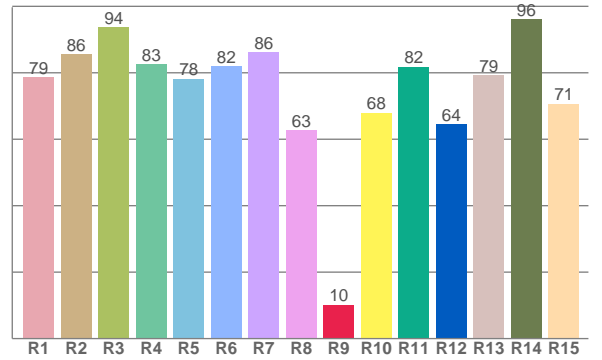




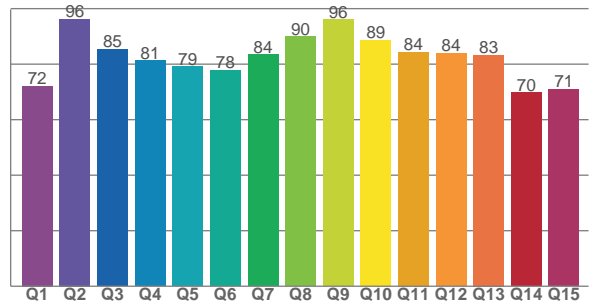
TM30: 80.0



CRI: 81.2 (R1-R8)



CQS: 81.0



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  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78.6 | 85.6 | 93.7 | 82.5 | 78.2 | 81.9 | 86.2 | 62.6 | 10.2 | 68.0 | 81.8 | 64.4 | 79.3 | 96.1 | 70.6 |

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  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 76.8 | 78.7 | 73.9 | 75.1 | 82.6 | 86.8 | 71.6 | 87.2 | 79.7 | 79.3 | 81.5 | 83.2 | 88.3 | 84.9 | 76.4 | 79.8 |

CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 72.1 | 96.2 | 85.4 | 81.3 | 79.1 | 77.8 | 83.5 | 89.9 | 96.1 | 88.8 | 84.3 | 83.9 | 83.2 | 69.8 | 70.9 |

## 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                             |
| 2914 K            | 81.2                  | 10.2          | 80.0           | 97.3        | 81.0                | 0.452                     | 0.424                     | 0.252            | 0.354            | 0.0056                          |

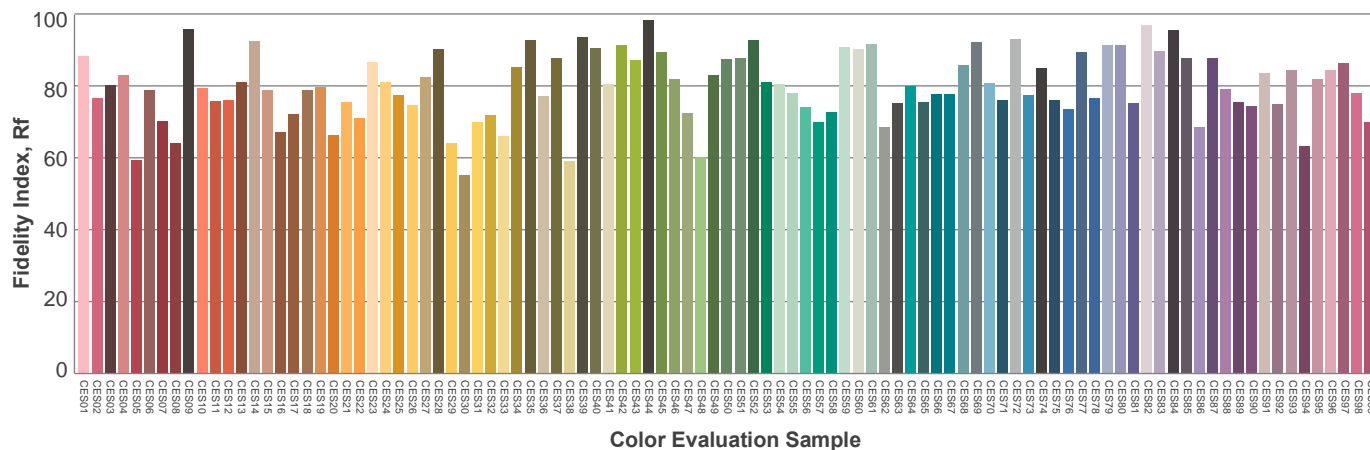
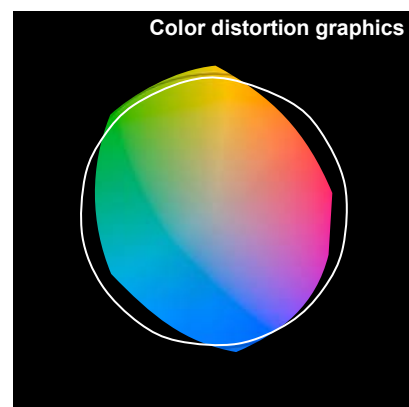
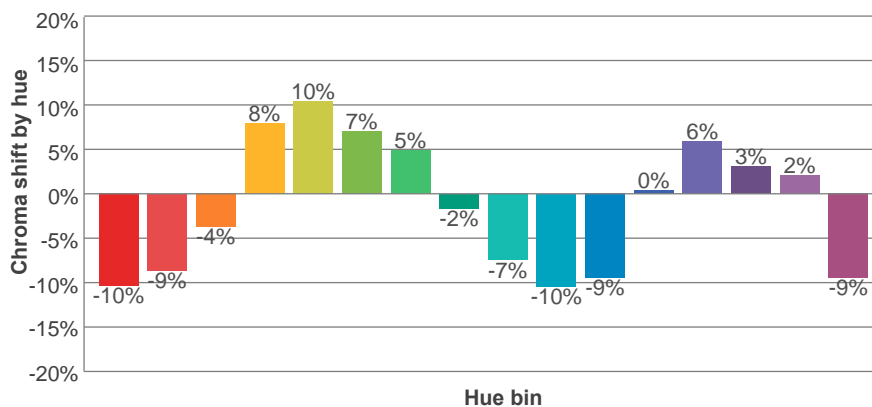
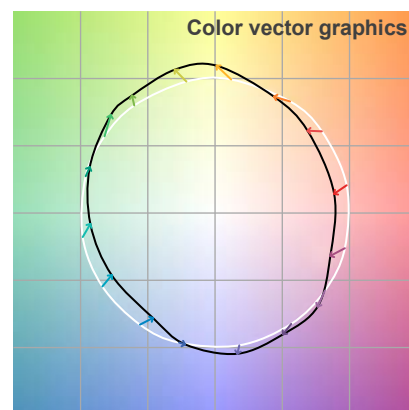
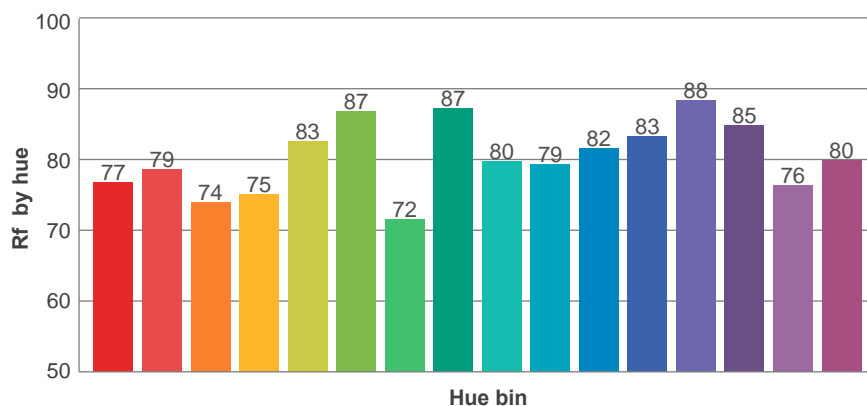
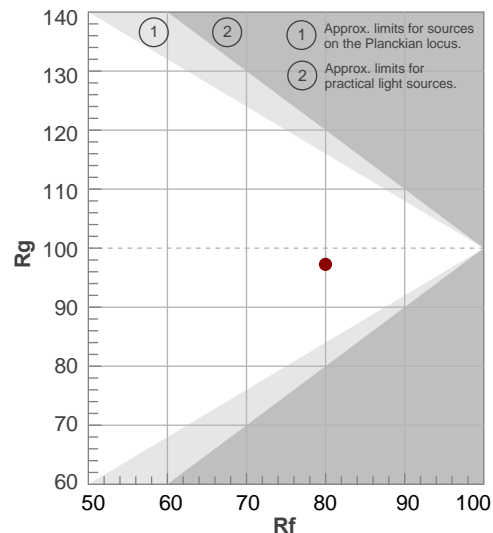
**Rf 80.0**

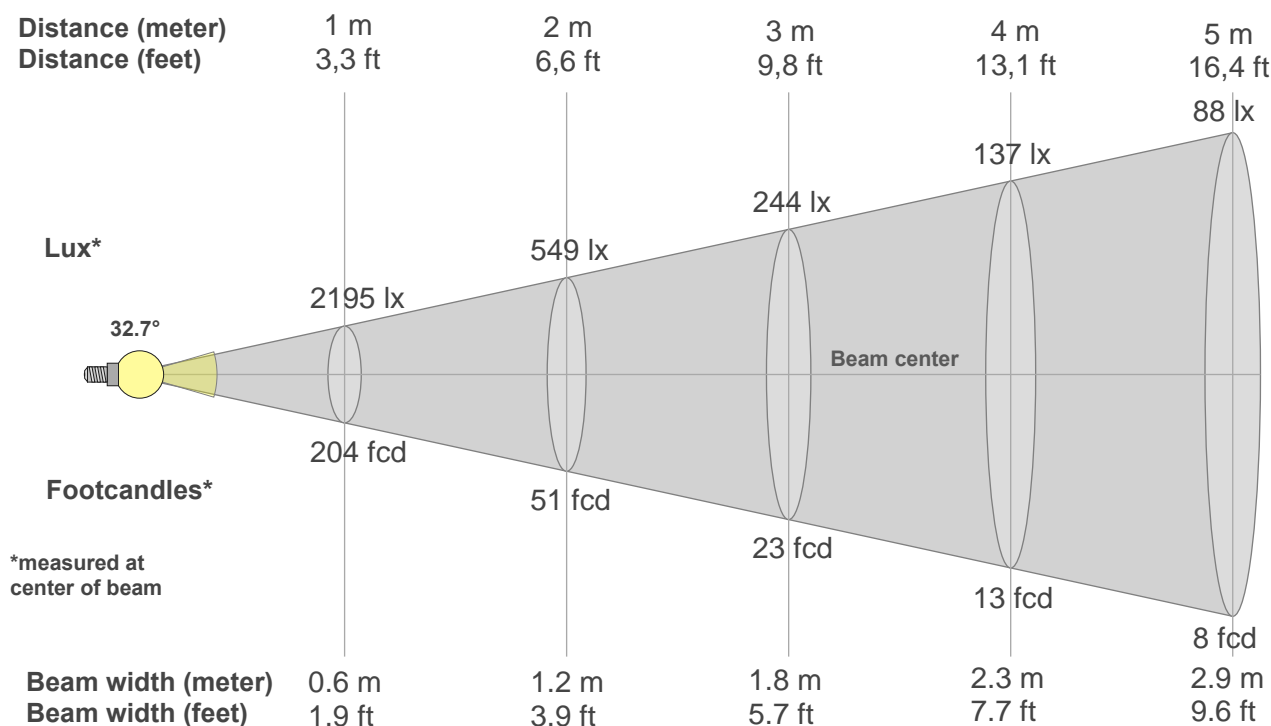
Fidelity index Rf

**Rg 97.3**

Gamut index Rg

| Hue Bin | R <sub>f</sub> | Graphic shifts (%) |      |
|---------|----------------|--------------------|------|
|         |                | Chroma             | Hue  |
| 1       | 77             | -10%               | -4%  |
| 2       | 79             | -9%                | 6%   |
| 3       | 74             | -4%                | 12%  |
| 4       | 75             | 8%                 | 13%  |
| 5       | 83             | 10%                | 7%   |
| 6       | 87             | 7%                 | -3%  |
| 7       | 72             | 5%                 | -16% |
| 8       | 87             | -2%                | -7%  |
| 9       | 80             | -7%                | -8%  |
| 10      | 79             | -10%               | -3%  |
| 11      | 82             | -9%                | 5%   |
| 12      | 83             | 0%                 | 5%   |
| 13      | 88             | 6%                 | -3%  |
| 14      | 85             | 3%                 | -9%  |
| 15      | 76             | 2%                 | -13% |
| 16      | 80             | -9%                | -8%  |





**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 |
| 2195lx   | 549lx | 244lx   | 137lx   | 88lx   | 61lx   | 45lx   | 34lx   | 27lx   | 22lx   | 18lx   | 15lx   | 13lx   | 11lx   | 10lx   | 9lx    | 8lx    | 7lx    | 6lx    | 5lx    |
| 203.9fcd | 51fcd | 22.7fcd | 12.7fcd | 8.2fcd | 5.7fcd | 4.2fcd | 3.2fcd | 2.5fcd | 2fcd   | 1.7fcd | 1.4fcd | 1.2fcd | 1fcd   | 0.9fcd | 0.8fcd | 0.7fcd | 0.6fcd | 0.6fcd | 0.5fcd |

**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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2195 | 2178 | 2117 | 2038 | 1931 | 1786 | 1598 | 1372 | 1132 | 927 | 747 | 596 | 476 | 387 | 318 | 252 | 186 | 124 | 70  | 31  |
| 100% | 99%  | 96%  | 93%  | 88%  | 81%  | 73%  | 63%  | 52%  | 42% | 34% | 27% | 22% | 18% | 14% | 11% | 8%  | 6%  | 3%  | 1%  |

**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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2195 | 2178 | 2117 | 2038 | 1931 | 1786 | 1598 | 1372 | 1132 | 927 | 747 | 596 | 476 | 387 | 318 | 252 | 186 | 124 | 70  | 31  |
| 100% | 99%  | 96%  | 93%  | 88%  | 81%  | 73%  | 63%  | 52%  | 42% | 34% | 27% | 22% | 18% | 14% | 11% | 8%  | 6%  | 3%  | 1%  |

**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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2195 | 2178 | 2117 | 2038 | 1931 | 1786 | 1598 | 1372 | 1132 | 927 | 747 | 596 | 476 | 387 | 318 | 252 | 186 | 124 | 70  | 31  |
| 100% | 99%  | 96%  | 93%  | 88%  | 81%  | 73%  | 63%  | 52%  | 42% | 34% | 27% | 22% | 18% | 14% | 11% | 8%  | 6%  | 3%  | 1%  |

**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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2195 | 2178 | 2117 | 2038 | 1931 | 1786 | 1598 | 1372 | 1132 | 927 | 747 | 596 | 476 | 387 | 318 | 252 | 186 | 124 | 70  | 31  |
| 100% | 99%  | 96%  | 93%  | 88%  | 81%  | 73%  | 63%  | 52%  | 42% | 34% | 27% | 22% | 18% | 14% | 11% | 8%  | 6%  | 3%  | 1%  |

| Beam angle 50° | Field angle 10° | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| {B_ANG}°       | 62°             | 73.6°             | 99.1%                        | 98.5%                       |