

Light efficiency:

99 Lumen/Watt

Light quality:

CRI: 82.4

Color temperature:

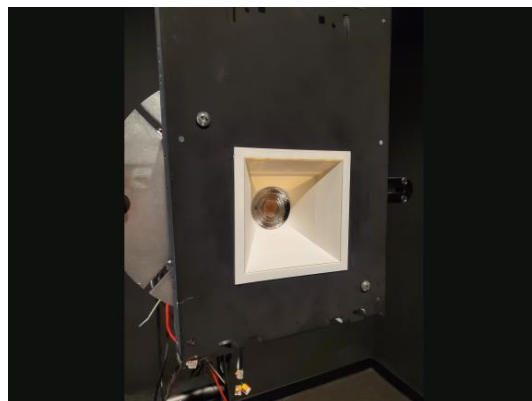
2955 K

Output: 3594 lm

Peak: 10914 cd

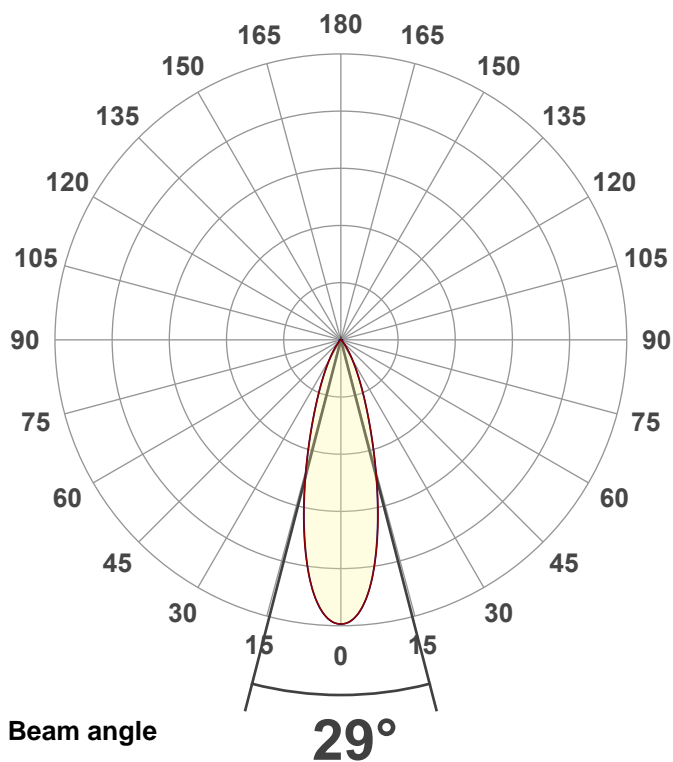
Power: 36.3 W

PF: 0.98



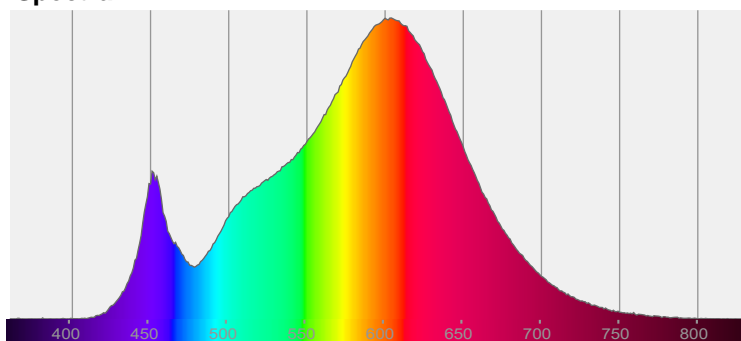
NU4-SD-SW-40LM-30K-80-30D-NA-HET-WH-WH

Date and time:  
12/5/2024 4:15:28 PM

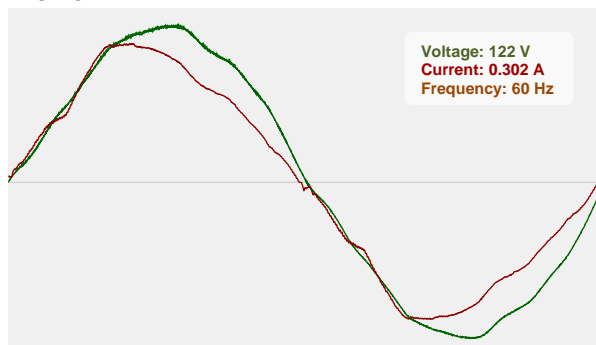


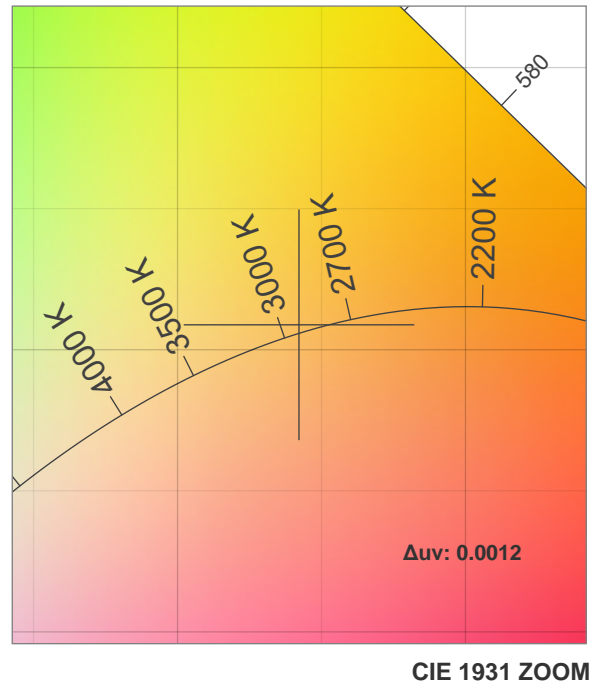
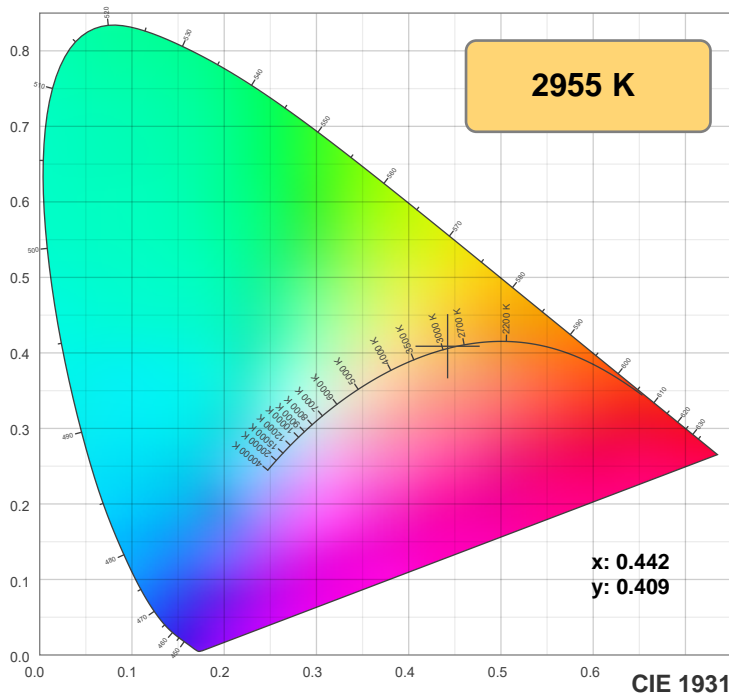
CIE 1931  
x: 0.442  
y: 0.409

Spectra

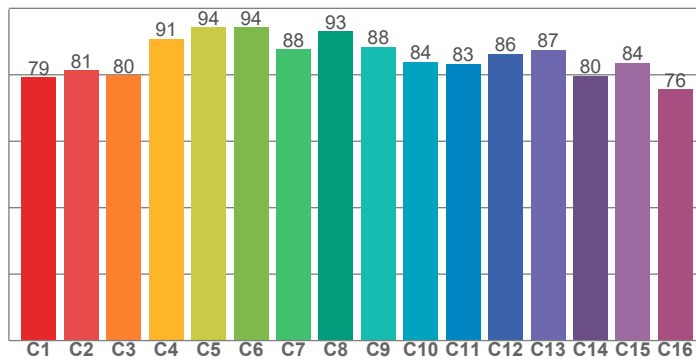


Power

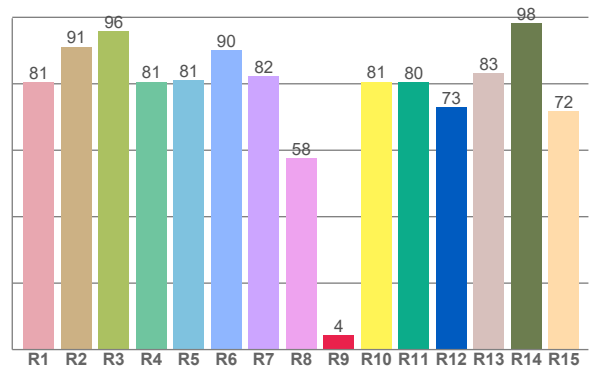




TM30: 85.4



CRI: 82.4 (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  |
|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 80.6 | 91.2 | 95.9 | 80.6 | 81.0 | 90.0 | 82.2 | 57.5 | 4.2 | 80.6 | 80.4 | 72.9 | 83.1 | 98.3 | 71.7 |

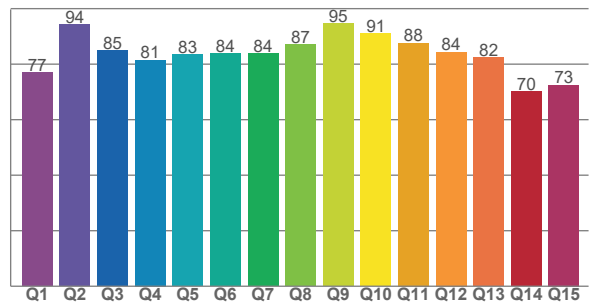
TM30 C values, 16 binned values out of total of 99 C values

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.2 | 81.3 | 79.8 | 90.7 | 94.3 | 94.3 | 87.6 | 93.0 | 88.4 | 83.9 | 83.4 | 86.2 | 87.5 | 79.6 | 83.6 | 75.6 |

CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 77.0 | 94.3 | 84.9 | 81.4 | 83.4 | 83.8 | 83.8 | 87.0 | 94.7 | 91.1 | 87.6 | 84.3 | 82.4 | 70.2 | 72.5 |

CQS: 82.4



## 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                             |
| 2955 K            | 82.4                  | 4.2           | 85.4           | 94.7        | 82.4                | 0.442                     | 0.409                     | 0.252            | 0.349            | 0.0012                          |

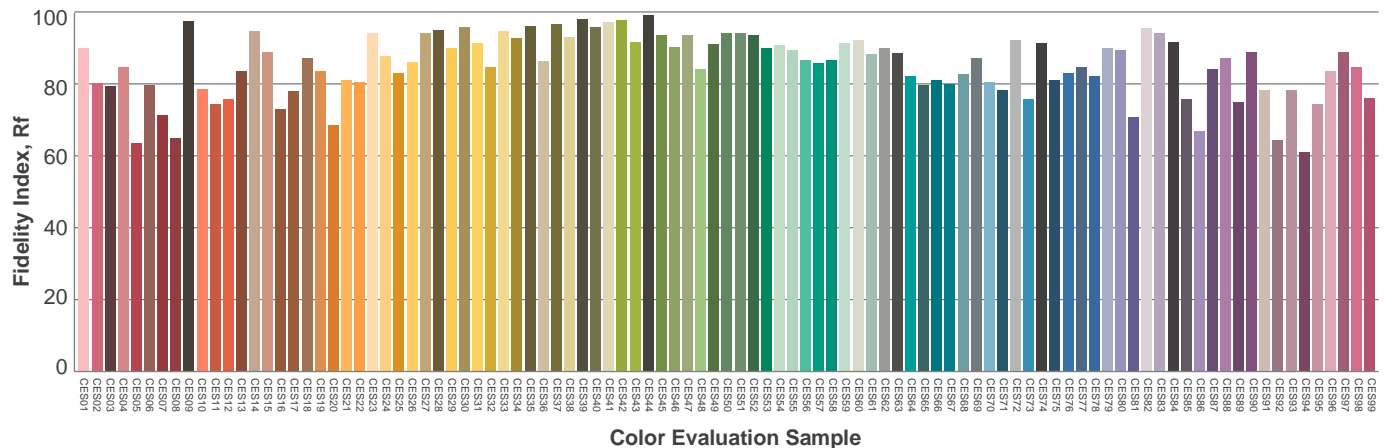
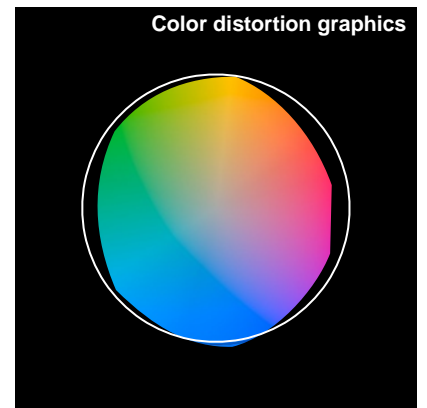
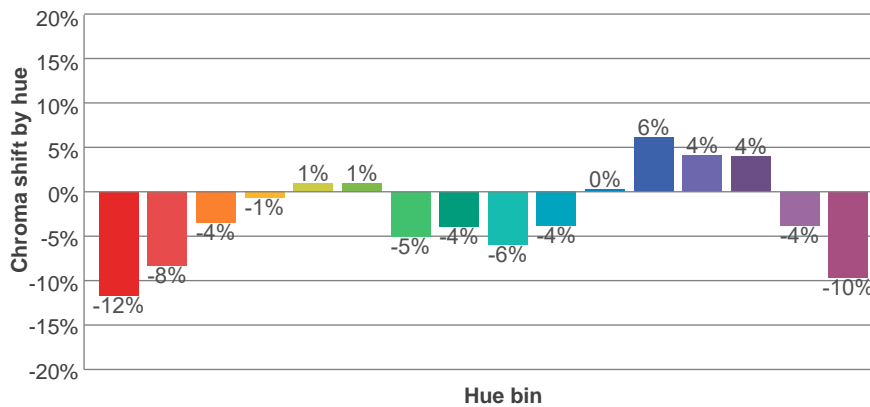
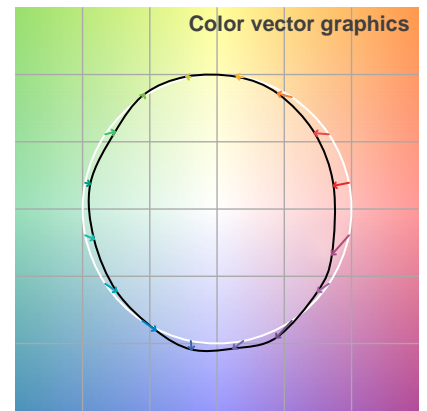
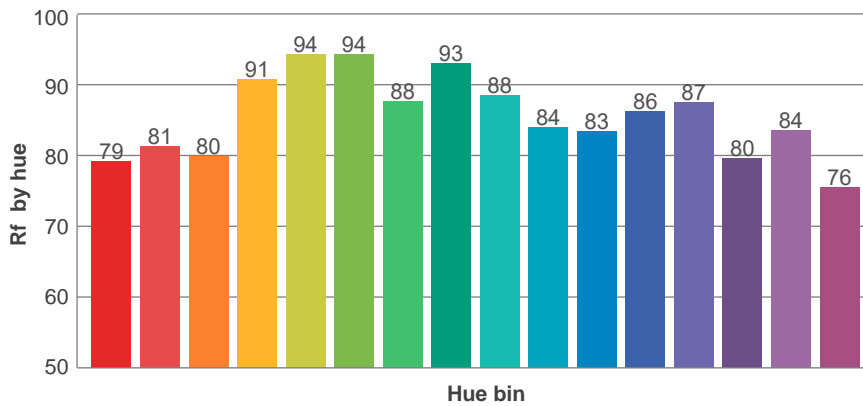
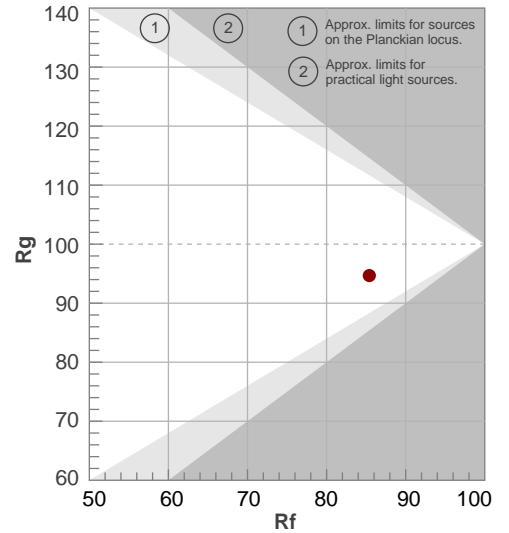
**Rf 85.4**

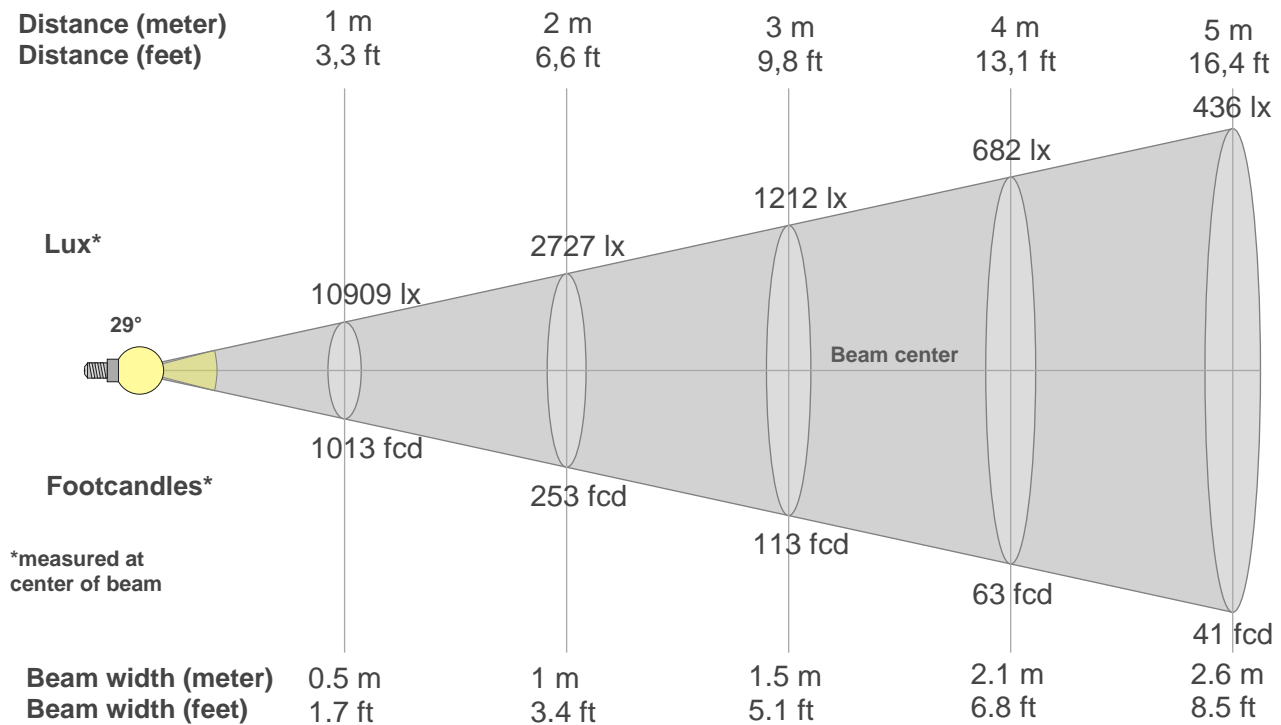
Fidelity index Rf

**Rg 94.7**

Gamut index Rg

| Hue Bin | R <sub>f</sub> | Graphic shifts (%) |      |
|---------|----------------|--------------------|------|
|         |                | Chroma             | Hue  |
| 1       | 79             | -12%               | 0%   |
| 2       | 81             | -8%                | 7%   |
| 3       | 80             | -4%                | 10%  |
| 4       | 91             | -1%                | 5%   |
| 5       | 94             | 1%                 | 3%   |
| 6       | 94             | 1%                 | -2%  |
| 7       | 88             | -5%                | -6%  |
| 8       | 93             | -4%                | 0%   |
| 9       | 88             | -6%                | 4%   |
| 10      | 84             | -4%                | 9%   |
| 11      | 83             | 0%                 | 12%  |
| 12      | 86             | 6%                 | 2%   |
| 13      | 87             | 4%                 | -8%  |
| 14      | 80             | 4%                 | -16% |
| 15      | 84             | -4%                | -9%  |
| 16      | 76             | -10%               | -17% |





#### 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 |
| 10909lx   | 2727lx   | 1212lx   | 682lx   | 436lx   | 303lx   | 223lx   | 170lx   | 135lx   | 109lx   | 90lx   | 76lx   | 65lx   | 56lx   | 48lx   | 43lx   | 38lx   | 34lx   | 30lx   | 27lx   |
| 1013.5fcd | 253.4fcd | 112.6fcd | 63.3fcd | 40.5fcd | 28.2fcd | 20.7fcd | 15.8fcd | 12.5fcd | 10.1fcd | 8.4fcd | 7fcd   | 6fcd   | 5.2fcd | 4.5fcd | 4fcd   | 3.5fcd | 3.1fcd | 2.8fcd | 2.5fcd |

#### 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°  |
|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10.9K | 10.8K | 10.4K | 9.8K | 9.0K | 8.0K | 6.9K | 5.7K | 4.7K | 3.8K | 3.0K | 2.4K | 1.9K | 1.5K | 1.2K | 0.9K | 0.7K | 0.5K | 0.4K | 0.3K |
| 100%  | 99%   | 96%   | 90%  | 82%  | 73%  | 63%  | 53%  | 43%  | 35%  | 28%  | 22%  | 17%  | 14%  | 11%  | 8%   | 6%   | 5%   | 3%   | 2%   |

#### 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°  |
|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10.9K | 10.8K | 10.4K | 9.8K | 9.0K | 7.9K | 6.8K | 5.7K | 4.6K | 3.7K | 3.0K | 2.3K | 1.8K | 1.5K | 1.1K | 0.9K | 0.7K | 0.5K | 0.4K | 0.3K |
| 100%  | 99%   | 96%   | 90%  | 82%  | 73%  | 62%  | 52%  | 43%  | 34%  | 27%  | 21%  | 17%  | 13%  | 10%  | 8%   | 6%   | 5%   | 3%   | 2%   |

#### 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°  |
|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10.9K | 10.8K | 10.4K | 9.8K | 9.0K | 8.0K | 6.9K | 5.7K | 4.7K | 3.8K | 3.0K | 2.4K | 1.9K | 1.5K | 1.2K | 0.9K | 0.7K | 0.5K | 0.4K | 0.3K |
| 100%  | 99%   | 96%   | 90%  | 82%  | 73%  | 63%  | 53%  | 43%  | 35%  | 28%  | 22%  | 17%  | 14%  | 11%  | 8%   | 6%   | 5%   | 3%   | 2%   |

#### 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°  |
|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10.9K | 10.8K | 10.4K | 9.8K | 9.0K | 7.9K | 6.8K | 5.7K | 4.6K | 3.7K | 3.0K | 2.3K | 1.8K | 1.5K | 1.1K | 0.9K | 0.7K | 0.5K | 0.4K | 0.3K |
| 100%  | 99%   | 96%   | 90%  | 82%  | 73%  | 62%  | 52%  | 43%  | 34%  | 27%  | 21%  | 17%  | 13%  | 10%  | 8%   | 6%   | 5%   | 3%   | 2%   |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 29°            | 57°             | 78.3°             | 98.9%                        | 96.6%                       |