

Light efficiency:

80 Lumen/Watt

Light quality:

CRI: 80.8

Color temperature:

3093 K

Output: 3256 lm

Peak: 10864 cd

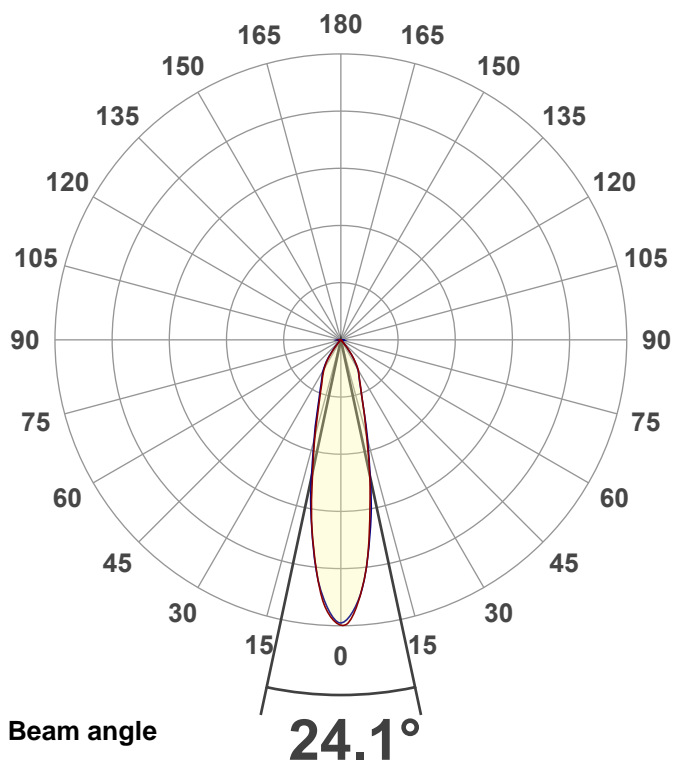
Power: 40.7 W

PF: 0.98



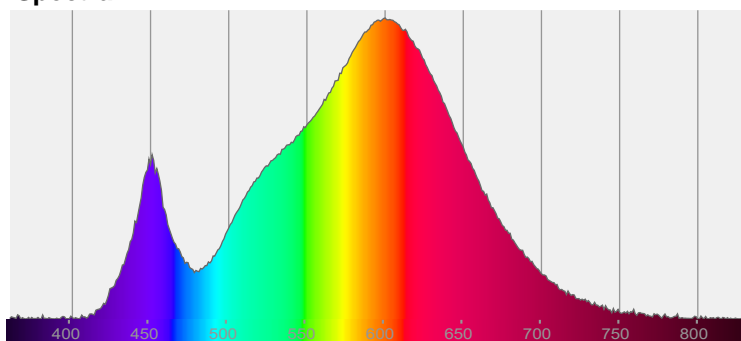
NU3-RD-SW-40LM-30K-80-25D-NL-WH-WH

Date and time:  
11/9/2020 2:21:12 PM

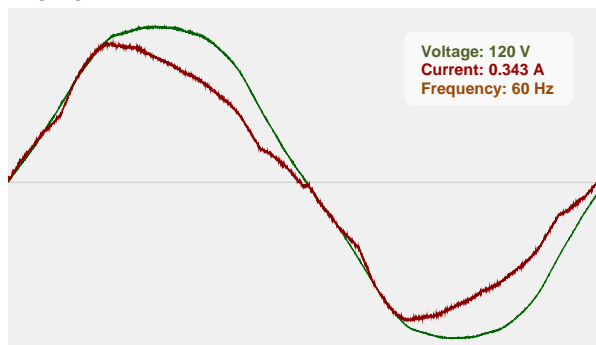


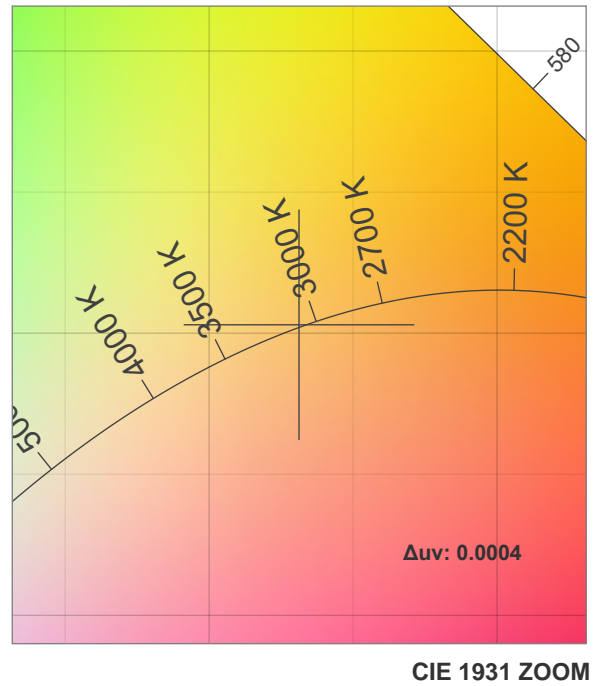
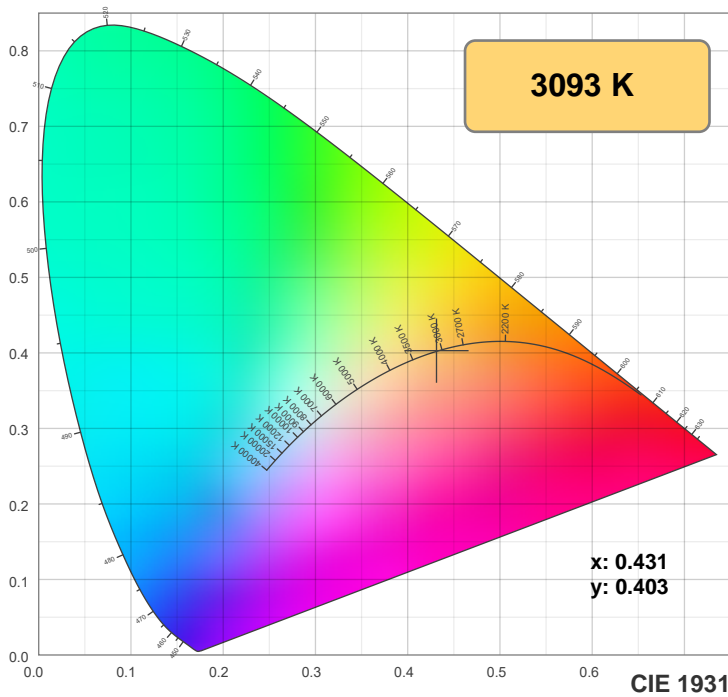
CIE 1931  
x: 0.431  
y: 0.403

Spectra

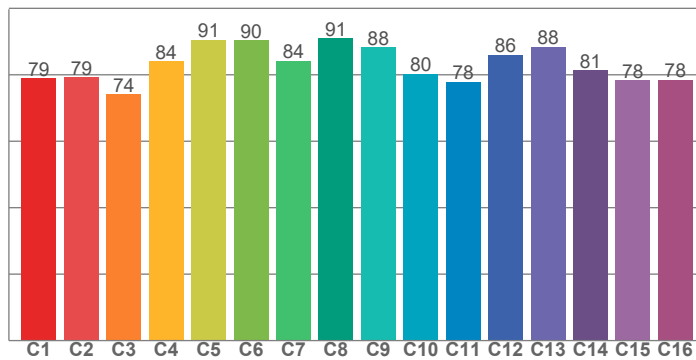


Power

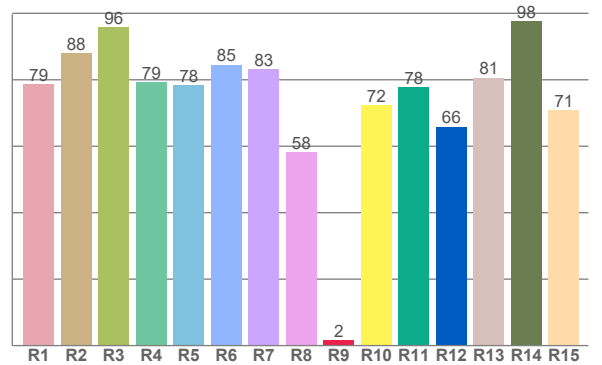




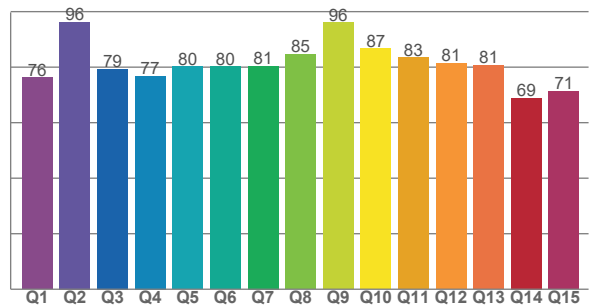
**TM30: 83.0**



**CRI: 80.8 (R1-R8)**



**CQS: 80.0**



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 | 88.0 | 95.9 | 79.3 | 78.3 | 84.5 | 83.2 | 58.2 | 1.6 | 72.3 | 77.8 | 65.9 | 80.6 | 97.7 | 70.7 |

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  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78.9 | 79.3 | 74.1 | 84.0 | 90.6 | 90.4 | 84.2 | 91.0 | 88.3 | 80.3 | 77.8 | 86.0 | 88.4 | 81.3 | 78.3 | 78.5 |

CQS Q values

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 76.3 | 96.3 | 79.4 | 76.8 | 80.1 | 80.2 | 80.5 | 84.6 | 96.0 | 86.6 | 83.4 | 81.4 | 80.7 | 68.9 | 71.3 |

## 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                             |
| 3093 K            | 80.8                  | 1.6           | 83.0           | 96.8        | 80.0                | 0.431                     | 0.403                     | 0.247            | 0.347            | 0.0004                          |

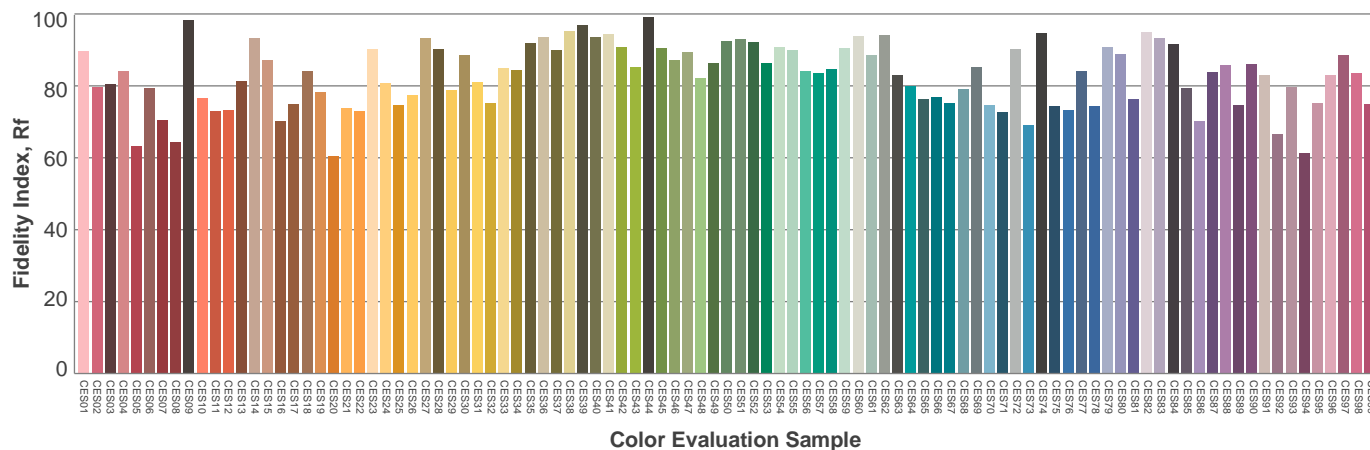
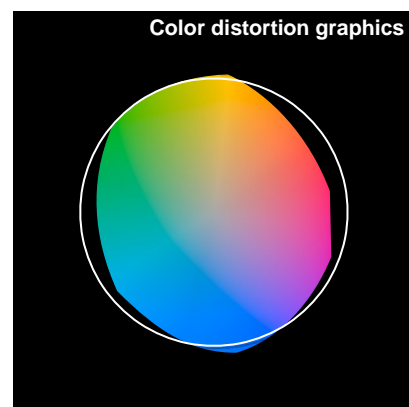
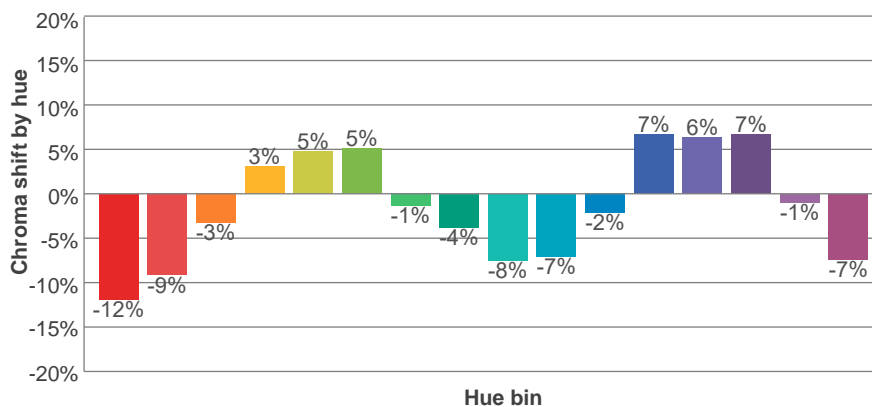
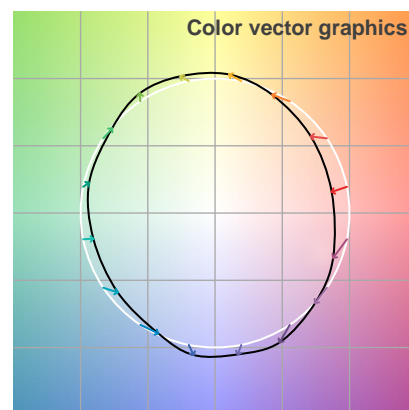
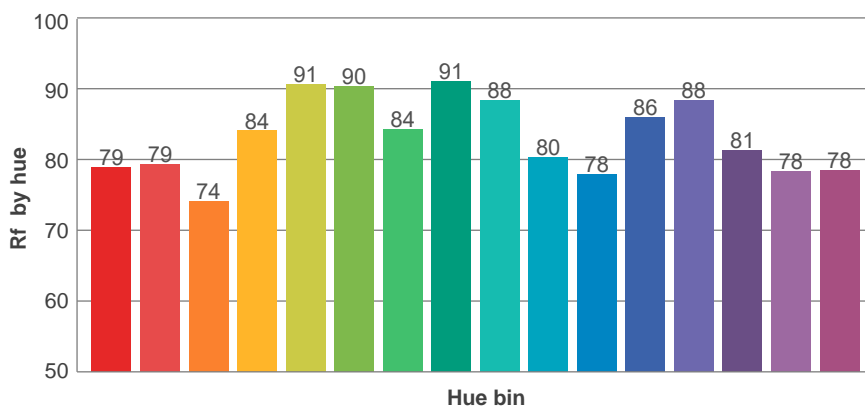
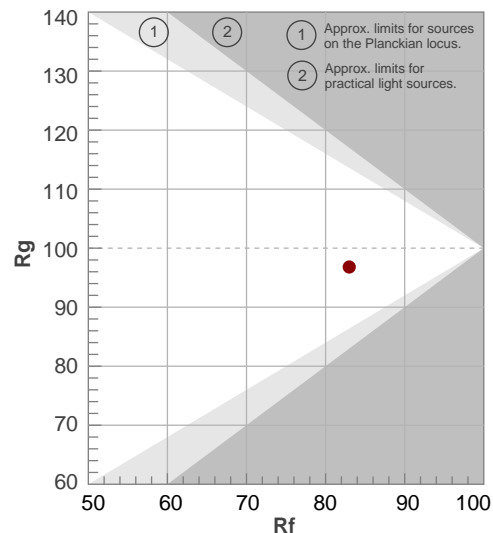
**Rf 83.0**

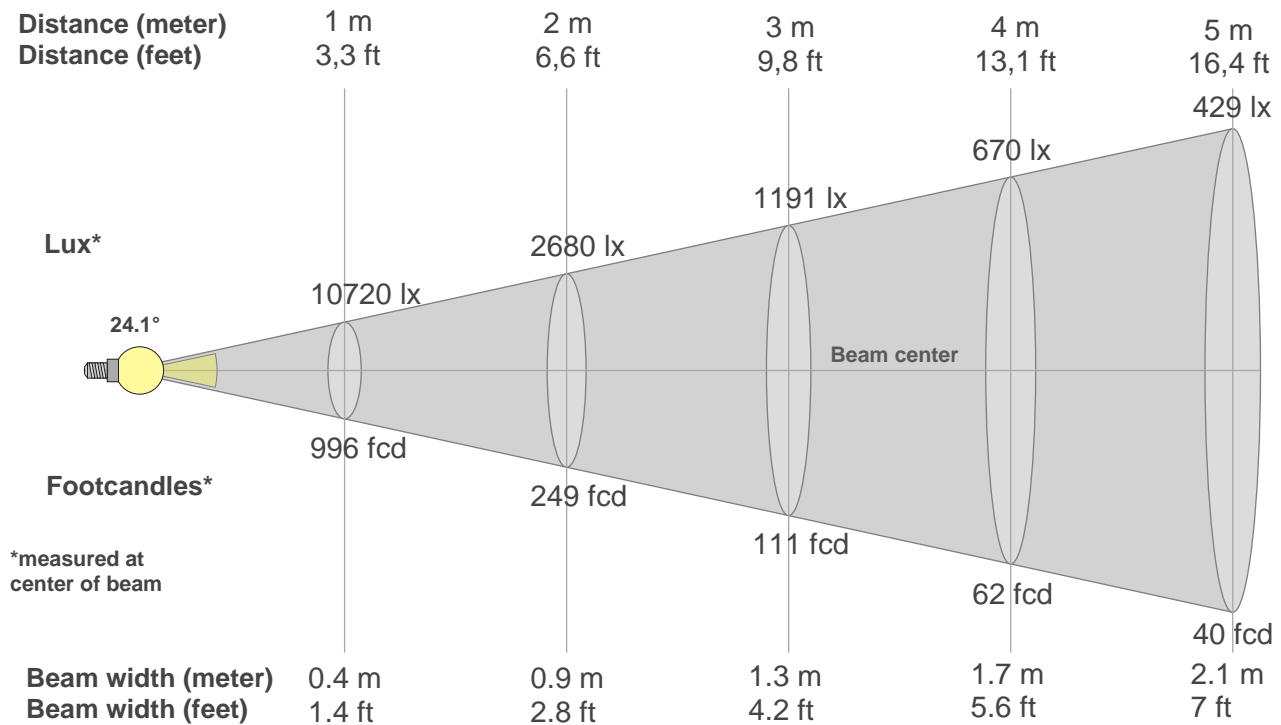
Fidelity index Rf

**Rg 96.8**

Gamut index Rg

| Hue Bin | R <sub>f</sub> | Graphic shifts (%) |      |
|---------|----------------|--------------------|------|
|         |                | Chroma             | Hue  |
| 1       | 79             | -12%               | -2%  |
| 2       | 79             | -9%                | 8%   |
| 3       | 74             | -3%                | 13%  |
| 4       | 84             | 3%                 | 10%  |
| 5       | 91             | 5%                 | 5%   |
| 6       | 90             | 5%                 | -3%  |
| 7       | 84             | -1%                | -10% |
| 8       | 91             | -4%                | -4%  |
| 9       | 88             | -8%                | 1%   |
| 10      | 80             | -7%                | 9%   |
| 11      | 78             | -2%                | 15%  |
| 12      | 86             | 7%                 | 5%   |
| 13      | 88             | 6%                 | -4%  |
| 14      | 81             | 7%                 | -13% |
| 15      | 78             | -1%                | -14% |
| 16      | 78             | -7%                | -16% |





#### 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 |
| 10720lx  | 2680lx | 1191lx   | 670lx   | 429lx   | 298lx   | 219lx   | 168lx   | 132lx   | 107lx  | 89lx   | 74lx   | 63lx   | 55lx   | 48lx   | 42lx   | 37lx   | 33lx   | 30lx   | 27lx   |
| 995.9fcd | 249fcd | 110.7fcd | 62.2fcd | 39.8fcd | 27.7fcd | 20.3fcd | 15.6fcd | 12.3fcd | 10fcd  | 8.2fcd | 6.9fcd | 5.9fcd | 5.1fcd | 4.4fcd | 3.9fcd | 3.4fcd | 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°  |
|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10.7K | 10.6K | 9.8K | 9.0K | 7.7K | 6.5K | 5.4K | 4.4K | 3.4K | 2.9K | 2.4K | 2.1K | 1.8K | 1.6K | 1.5K | 1.3K | 1.1K | 0.9K | 0.7K | 0.5K |
| 100%  | 99%   | 91%  | 84%  | 72%  | 61%  | 50%  | 41%  | 32%  | 27%  | 23%  | 19%  | 17%  | 15%  | 14%  | 12%  | 10%  | 8%   | 6%   | 4%   |

#### 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°  |
|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10.7K | 10.3K | 9.8K | 8.9K | 7.8K | 6.7K | 5.6K | 4.4K | 3.6K | 3.0K | 2.4K | 2.1K | 1.8K | 1.6K | 1.4K | 1.3K | 1.1K | 0.9K | 0.6K | 0.4K |
| 100%  | 96%   | 91%  | 83%  | 73%  | 62%  | 52%  | 41%  | 34%  | 28%  | 22%  | 19%  | 17%  | 15%  | 13%  | 12%  | 10%  | 8%   | 6%   | 4%   |

#### 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°  |
|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10.7K | 10.4K | 9.9K | 8.8K | 7.7K | 6.5K | 5.4K | 4.3K | 3.6K | 2.8K | 2.4K | 2.1K | 1.8K | 1.6K | 1.4K | 1.3K | 1.1K | 0.9K | 0.7K | 0.4K |
| 100%  | 97%   | 93%  | 82%  | 72%  | 61%  | 50%  | 40%  | 33%  | 27%  | 23%  | 19%  | 17%  | 15%  | 13%  | 12%  | 10%  | 8%   | 6%   | 4%   |

#### 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°  |
|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10.7K | 10.3K | 9.7K | 8.9K | 7.7K | 6.6K | 5.5K | 4.5K | 3.7K | 3.1K | 2.5K | 2.2K | 1.9K | 1.7K | 1.5K | 1.4K | 1.2K | 1.0K | 0.7K | 0.5K |
| 100%  | 96%   | 90%  | 83%  | 72%  | 62%  | 52%  | 42%  | 34%  | 29%  | 23%  | 20%  | 18%  | 16%  | 14%  | 13%  | 11%  | 9%   | 7%   | 5%   |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 24.1°          | 64.4°           | 80°               | 99.5%                        | 99.2%                       |