

## Photometric / Colorimetric / Electric Report

Fixture Model:

200-HD-WD-S-WD2-40-NFL-DIM1-2-HD-WD\_IC-WD-FLS-2

Trim Model:

FLS-2-WH

Date:

2/28/2022



Light efficiency:

39 Lumen/Watt

Light quality:

CRI: 96.7

Color temperature:

2880 K

CIE 1931:

x: 0.443  
y: 0.400

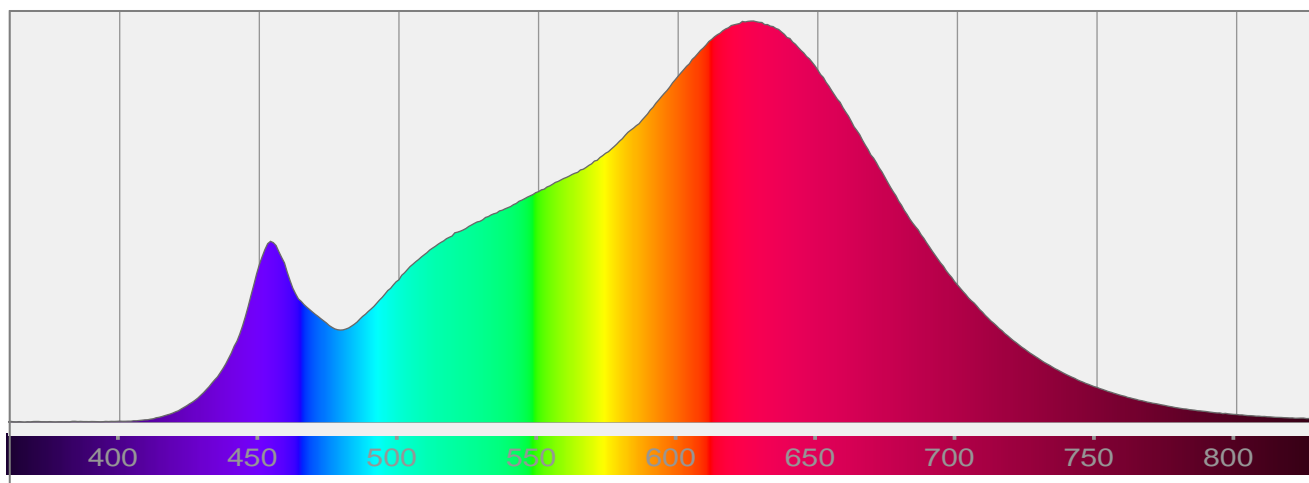
Output: 562 lm

Peak: 1219 cd

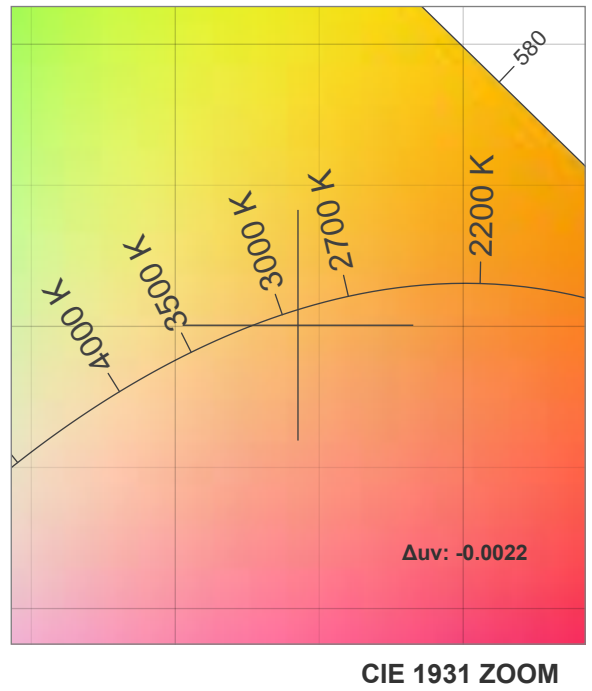
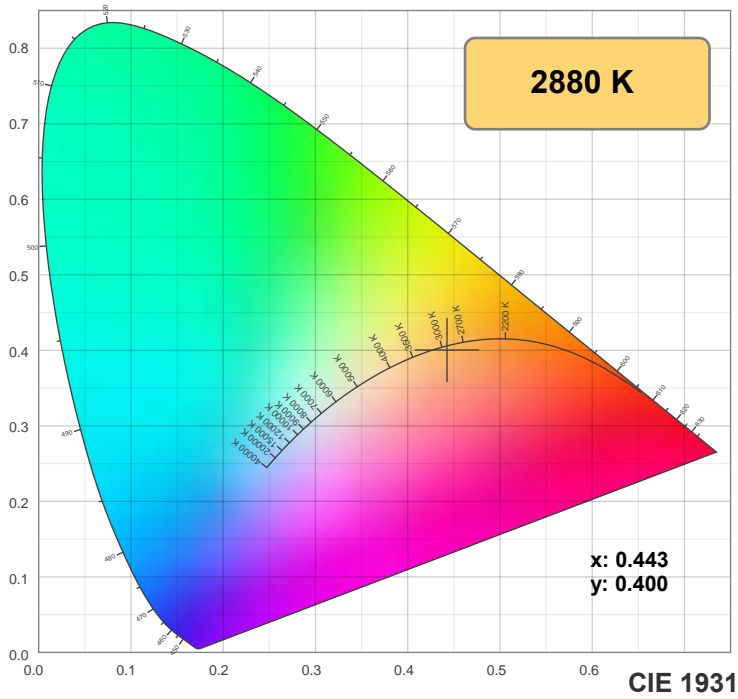
Power: 14.6 W

PF: 1.0

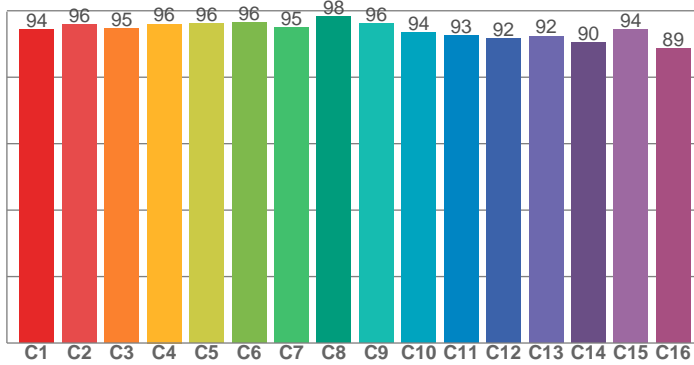
Spectra:



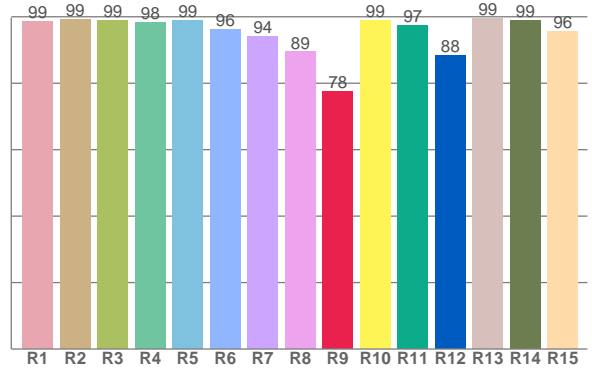
## Color Details



TM-30: 94.3



CRI: 96.7 (R1-R8)



CRI R Values:

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9   | R10  | R11  | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 98.7 | 99.2 | 99.0 | 98.3 | 98.9 | 96.1 | 94.0 | 89.4 | 77.5 | 98.9 | 97.3 | 88.4 | 99.5 | 98.8 | 95.6 |

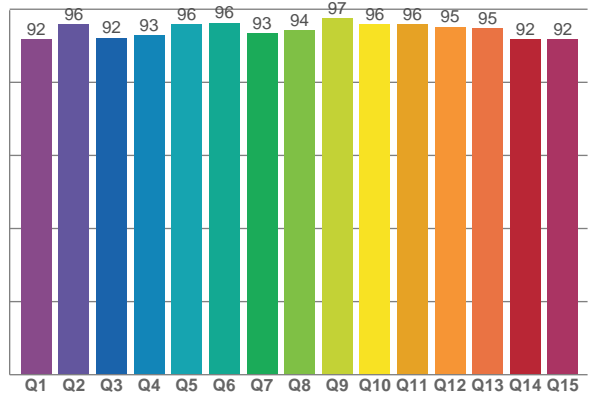
TM30 C Values:

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94.4 | 95.8 | 94.7 | 96.0 | 96.1 | 96.4 | 94.9 | 98.2 | 96.2 | 93.5 | 92.6 | 91.6 | 92.4 | 90.4 | 94.2 | 88.7 |

CQS Q values:

| Q1   | Q2   | Q3   | Q4   | Q5   | Q6   | Q7   | Q8   | Q9   | Q10  | Q11  | Q12  | Q13  | Q14  | Q15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91.7 | 95.8 | 92.2 | 92.8 | 95.8 | 96.3 | 93.3 | 94.3 | 97.5 | 96.0 | 95.8 | 95.2 | 94.7 | 91.9 | 91.7 |

CQS: 93.9



Color Parameters:

| CCT    | CRI  | CRI R9 | TM30 Rf | TM30 Rg | CQS  | x     | y     | u     | v     | Δuv     |
|--------|------|--------|---------|---------|------|-------|-------|-------|-------|---------|
| 2880 K | 96.7 | 77.5   | 94.3    | 100.6   | 93.9 | 0.443 | 0.400 | 0.256 | 0.347 | -0.0022 |

# TM-30 Details

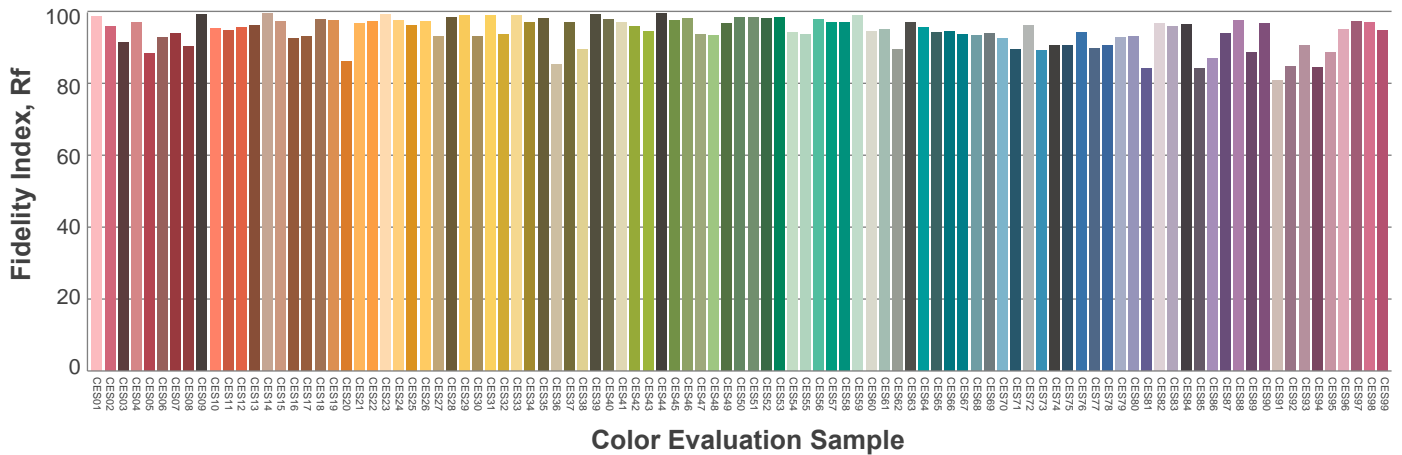
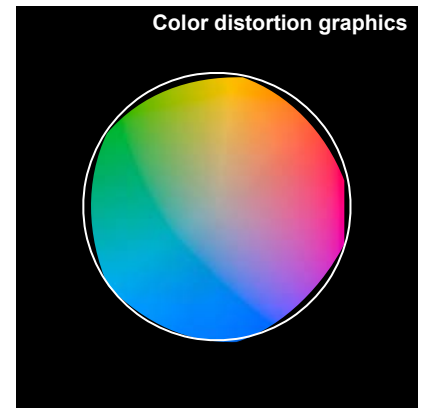
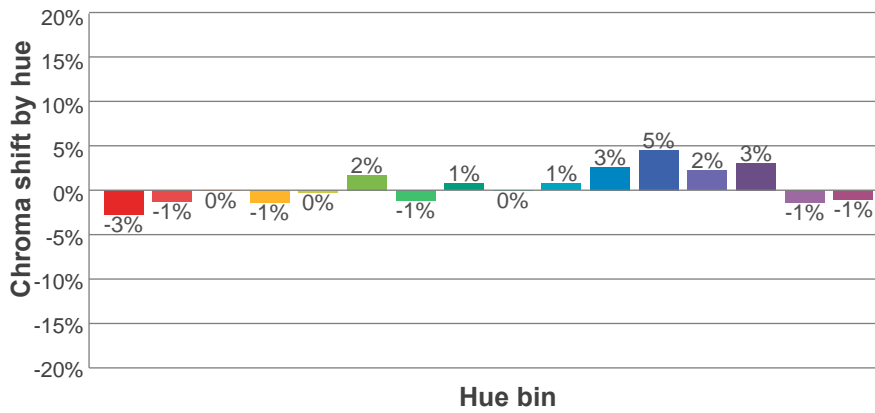
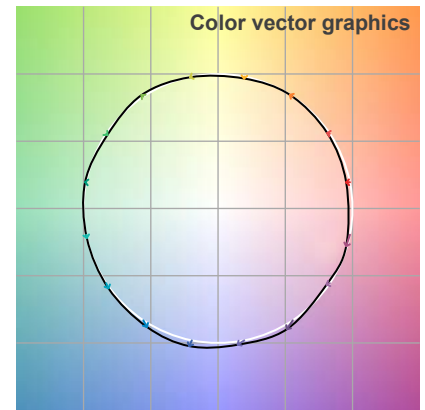
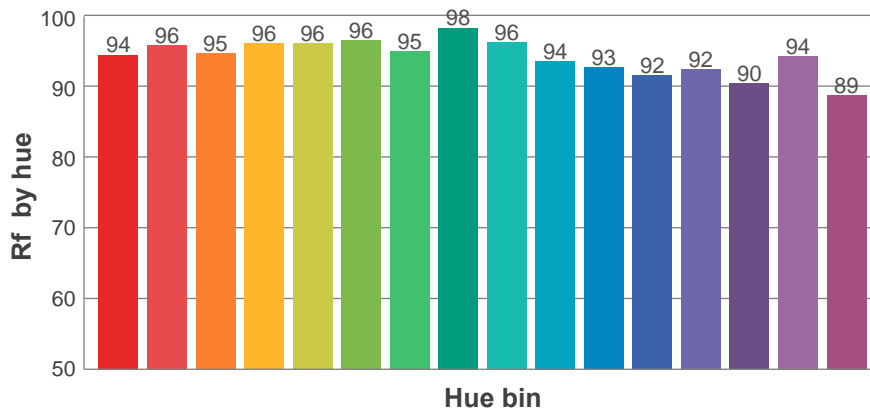
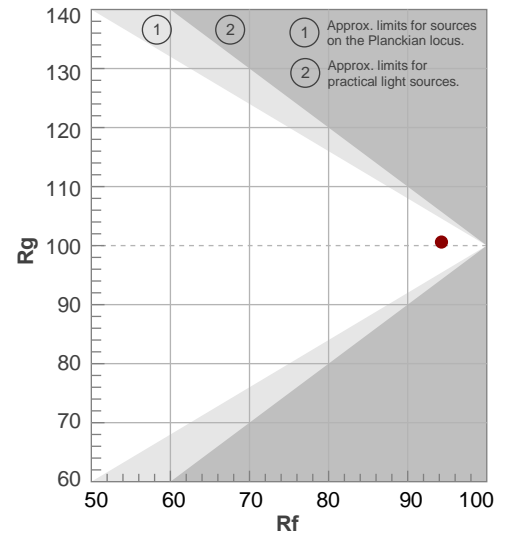
**Rf 94.3**

Fidelity index Rf

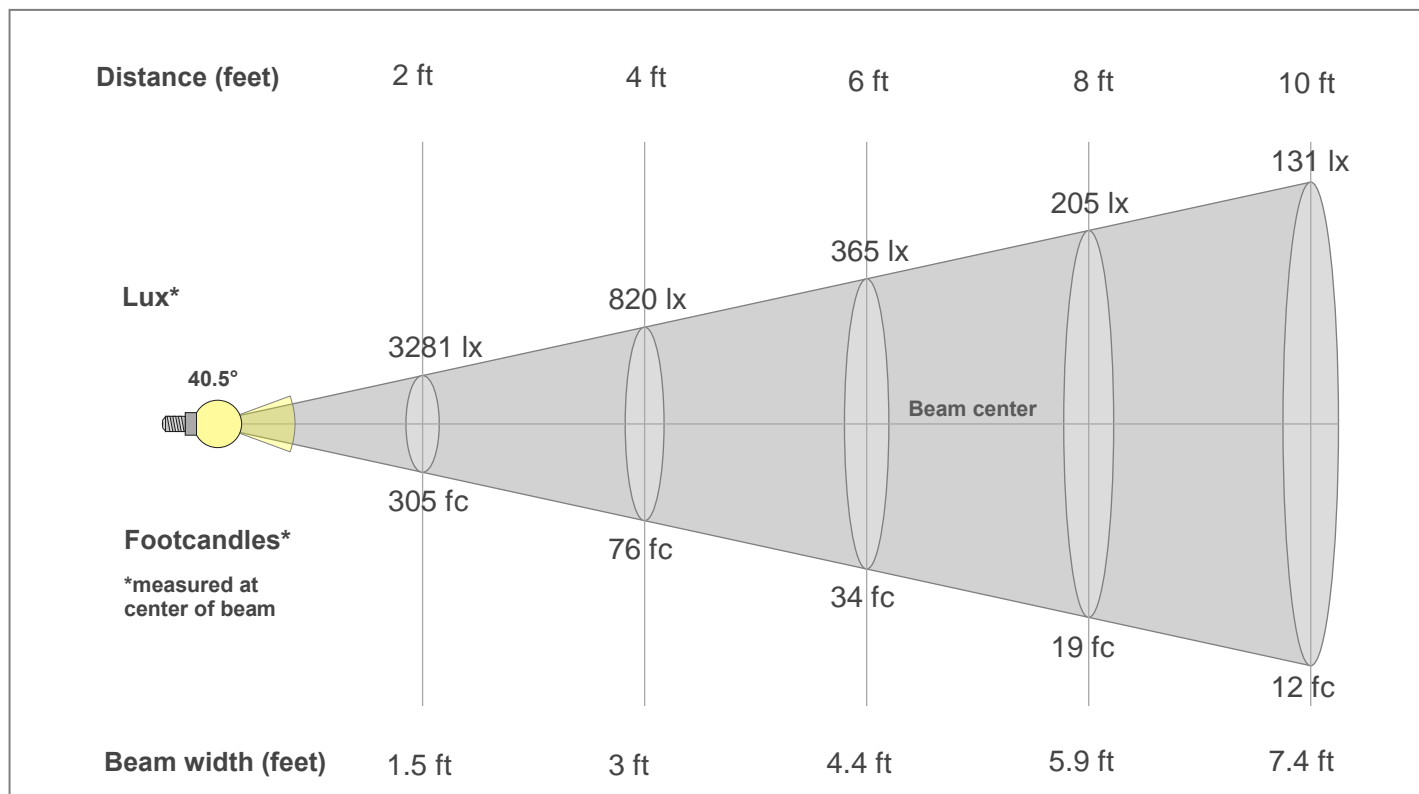
**Rg 100.6**

Gamut index Rg

| Hue Bin | R <sub>f</sub> | Shifts (%) |     |
|---------|----------------|------------|-----|
|         |                | Chroma     | Hue |
| 1       | 94             | -3%        | 0%  |
| 2       | 96             | -1%        | 1%  |
| 3       | 95             | 0%         | 3%  |
| 4       | 96             | -1%        | 0%  |
| 5       | 96             | 0%         | 1%  |
| 6       | 96             | 2%         | 0%  |
| 7       | 95             | -1%        | 0%  |
| 8       | 98             | 1%         | 0%  |
| 9       | 96             | 0%         | 2%  |
| 10      | 94             | 1%         | 4%  |
| 11      | 93             | 3%         | 5%  |
| 12      | 92             | 5%         | -1% |
| 13      | 92             | 2%         | -5% |
| 14      | 90             | 3%         | -7% |
| 15      | 94             | -1%        | -2% |
| 16      | 89             | -1%        | -9% |



## Beam Details



### 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 |
| 1219lx  | 305lx  | 135lx  | 76lx   | 49lx   | 34lx   | 25lx  | 19lx   | 15lx   | 12lx   | 10lx   | 8lx    | 7lx    | 6lx    | 5lx    | 5lx    | 4lx    | 4lx    | 3lx    | 3lx    |
| 113.3fc | 28.3fc | 12.6fc | 7.1fc  | 4.5fc  | 3.1fc  | 2.3fc | 1.8fc  | 1.4fc  | 1.1fc  | 0.9fc  | 0.8fc  | 0.7fc  | 0.6fc  | 0.5fc  | 0.4fc  | 0.4fc  | 0.3fc  | 0.3fc  | 0.3fc  |

### 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° |
|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1219 | 1212 | 1189 | 1152 | 1101 | 1042 | 977 | 904 | 820 | 729 | 625 | 508 | 394 | 297 | 226 | 175 | 133 | 99  | 66  | 34  |
| 100% | 99%  | 97%  | 94%  | 90%  | 85%  | 80% | 74% | 67% | 60% | 51% | 42% | 32% | 24% | 19% | 14% | 11% | 8%  | 5%  | 3%  |

### 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° |
|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1219 | 1212 | 1189 | 1152 | 1101 | 1042 | 977 | 904 | 820 | 729 | 625 | 508 | 394 | 297 | 226 | 175 | 133 | 99  | 66  | 34  |
| 100% | 99%  | 97%  | 94%  | 90%  | 85%  | 80% | 74% | 67% | 60% | 51% | 42% | 32% | 24% | 19% | 14% | 11% | 8%  | 5%  | 3%  |

### 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° |
|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1219 | 1212 | 1189 | 1152 | 1101 | 1042 | 977 | 904 | 820 | 729 | 625 | 508 | 394 | 297 | 226 | 175 | 133 | 99  | 66  | 34  |
| 100% | 99%  | 97%  | 94%  | 90%  | 85%  | 80% | 74% | 67% | 60% | 51% | 42% | 32% | 24% | 19% | 14% | 11% | 8%  | 5%  | 3%  |

### 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° |
|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1219 | 1212 | 1189 | 1152 | 1101 | 1042 | 977 | 904 | 820 | 729 | 625 | 508 | 394 | 297 | 226 | 175 | 133 | 99  | 66  | 34  |
| 100% | 99%  | 97%  | 94%  | 90%  | 85%  | 80% | 74% | 67% | 60% | 51% | 42% | 32% | 24% | 19% | 14% | 11% | 8%  | 5%  | 3%  |

| Beam angle 50% | Field angle 10% | Cut-off angle 2.5% | Intensity ratio in 120° | Intensity ratio in 90° |
|----------------|-----------------|--------------------|-------------------------|------------------------|
| 40.5°          | 65.3°           | 76.6°              | 99.5%                   | 99.4%                  |