

Light efficiency:

48 Lumen/Watt

Light quality:

CRI: 91.3

Color temperature:

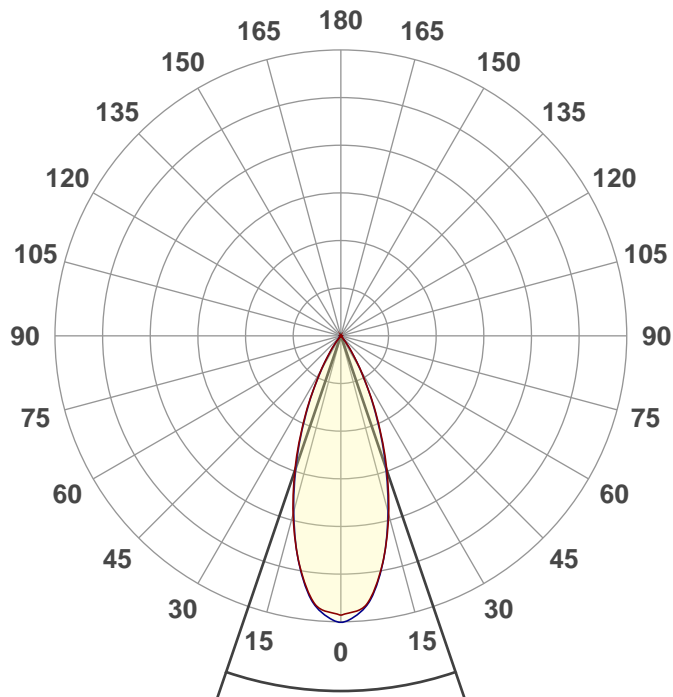
3029 K

Output: 318 lm

Peak: 720 cd

Power: 6.6 W

PF: 0.91



Beam angle

37.7°

Product name:

DF2-SW-30K-90-40D-UNV-DIM10-NC-WH-BK

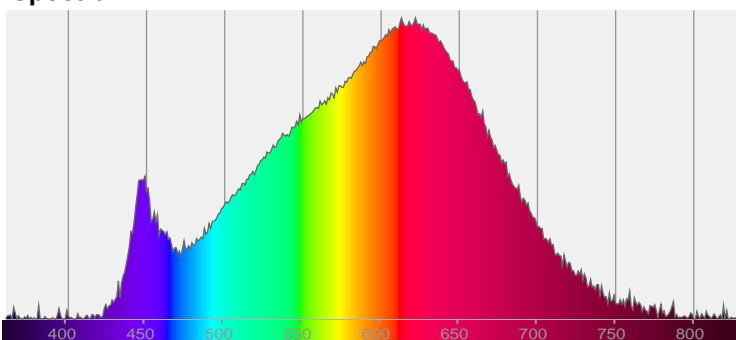
Date and time:

5/8/2019 9:33:11 AM

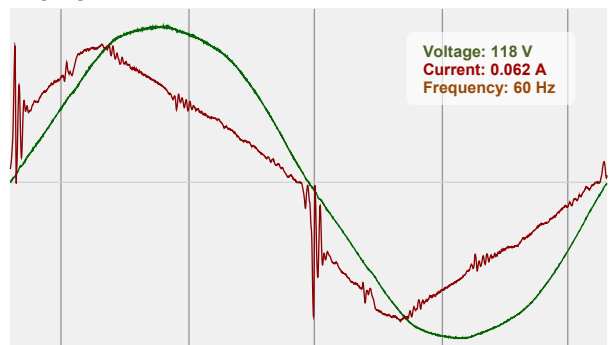


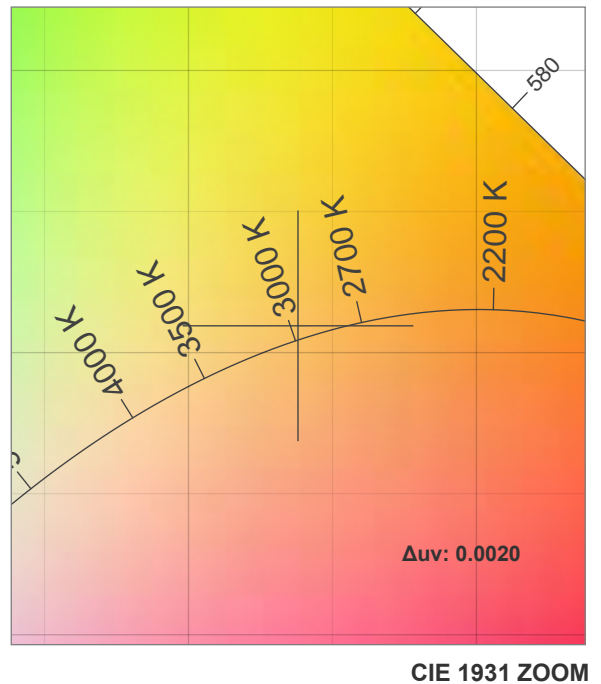
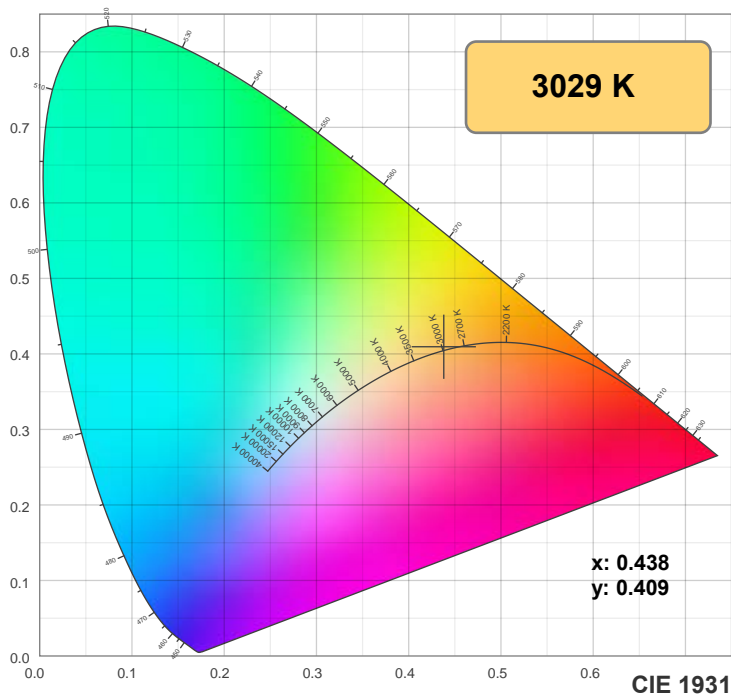
CIE 1931
x: 0.438
y: 0.409

Spectra

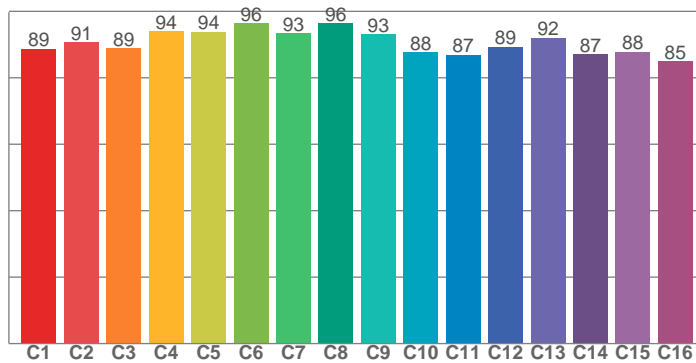


Power

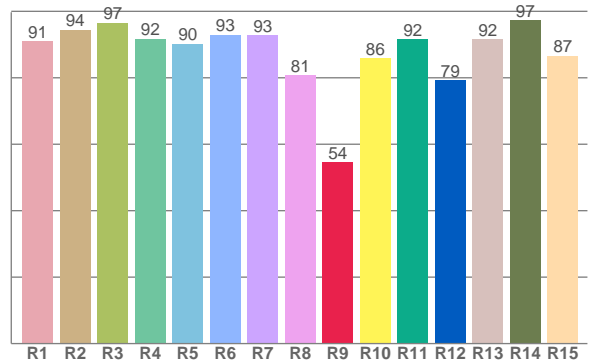




TM30: 90.7



CRI: 91.3 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 91.0 | 94.4 | 96.6 | 91.8 | 90.3 | 92.9 | 92.8 | 80.8 | 54.5 | 85.9 | 91.6 | 79.2 | 91.7 | 97.4 | 86.6 |

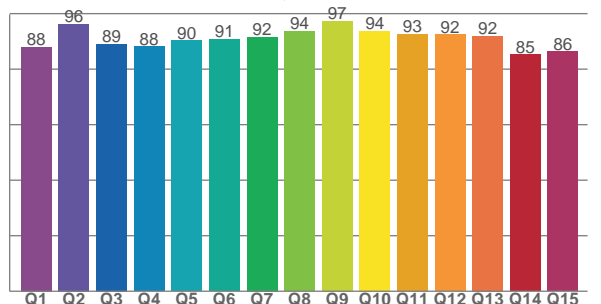
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 88.7 | 90.7 | 88.8 | 94.0 | 93.9 | 96.4 | 93.3 | 96.4 | 93.1 | 87.6 | 87.0 | 89.2 | 92.0 | 87.1 | 87.7 | 84.9 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 88.0 | 96.2 | 89.0 | 88.2 | 90.3 | 90.8 | 91.5 | 93.6 | 97.3 | 93.8 | 92.7 | 92.4 | 92.0 | 85.2 | 86.3 |

CQS: 90.4



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 |
| 3029 K | 91.3 | 54.5 | 90.7 | 98.3 | 90.4 | 0.438 | 0.409 | 0.249 | 0.349 | 0.0020 |

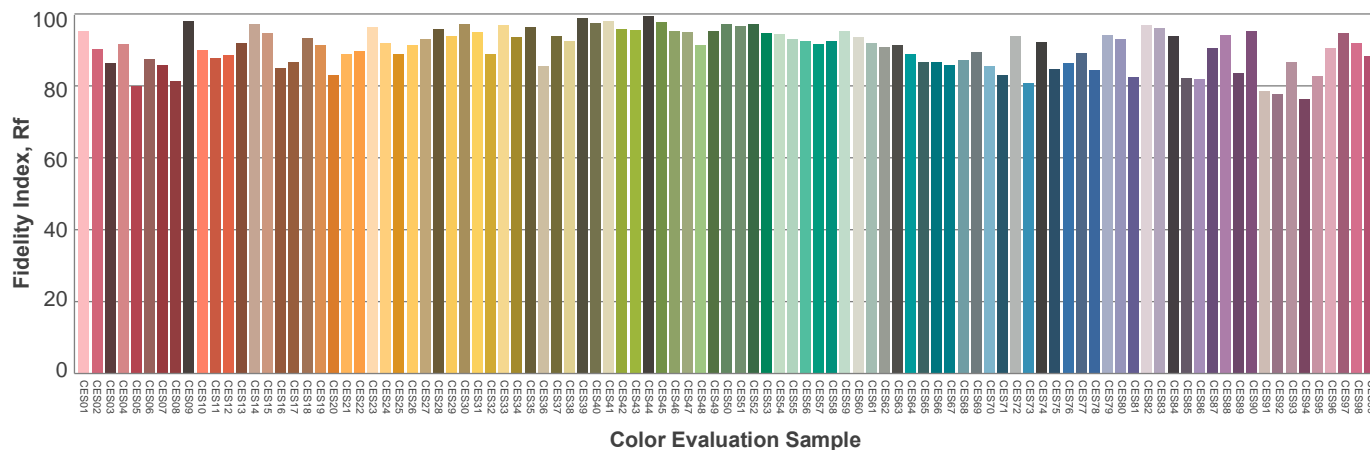
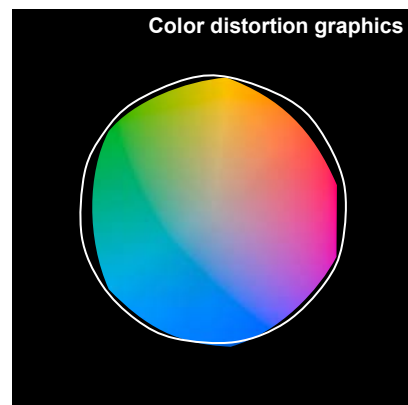
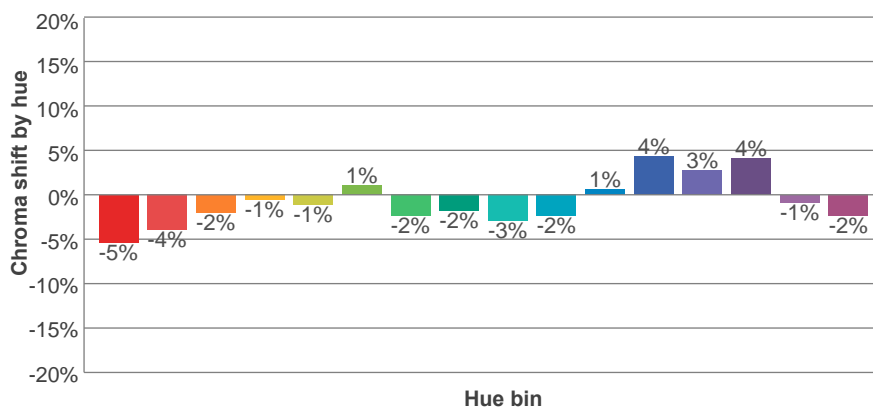
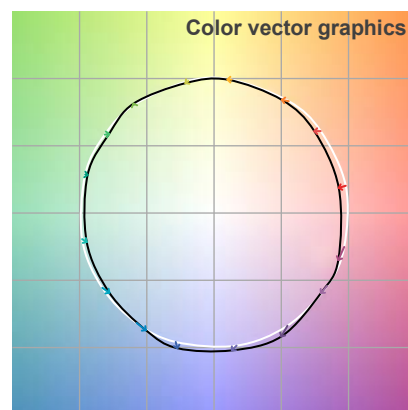
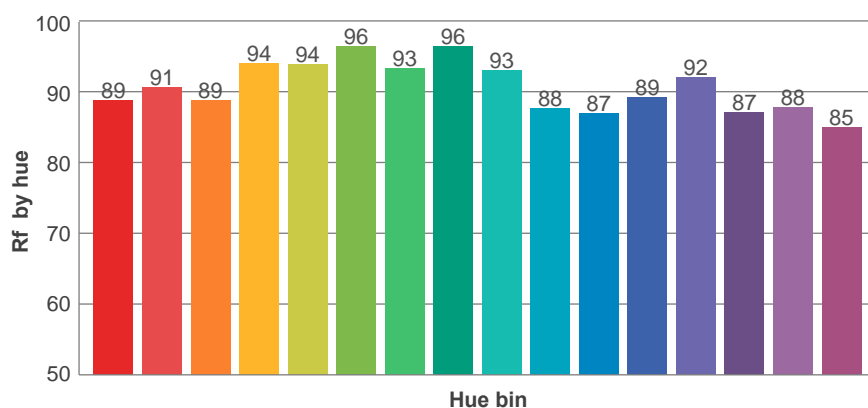
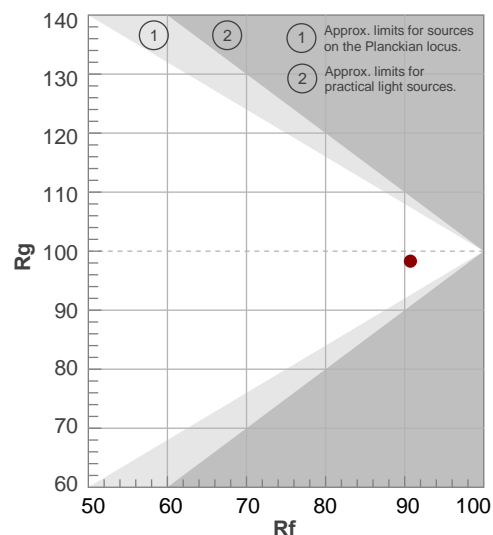
Rf 90.7

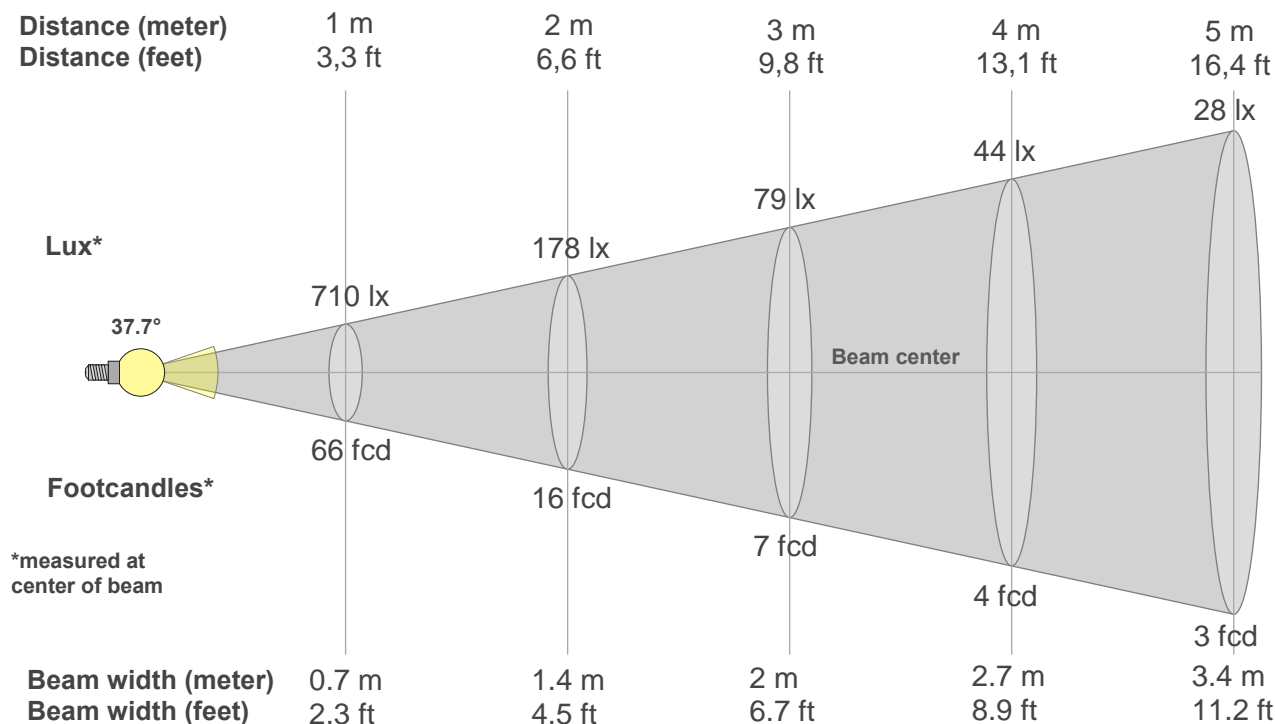
Fidelity index Rf

Rg 98.3

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 89 | -5% | -1% |
| 2 | 91 | -4% | 3% |
| 3 | 89 | -2% | 5% |
| 4 | 94 | -1% | 3% |
| 5 | 94 | -1% | 2% |
| 6 | 96 | 1% | 0% |
| 7 | 93 | -2% | -2% |
| 8 | 96 | -2% | 0% |
| 9 | 93 | -3% | 3% |
| 10 | 88 | -2% | 6% |
| 11 | 87 | 1% | 9% |
| 12 | 89 | 4% | 2% |
| 13 | 92 | 3% | -4% |
| 14 | 87 | 4% | -8% |
| 15 | 88 | -1% | -7% |
| 16 | 85 | -2% | -10% |





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 |
| 710lx | 178lx | 79lx | 44lx | 28lx | 20lx | 14lx | 11lx | 9lx | 7lx | 6lx | 5lx | 4lx | 4lx | 3lx | 3lx | 2lx | 2lx | 2lx | 2lx |
| 66fcd | 16.5fcd | 7.3fcd | 4.1fcd | 2.6fcd | 1.8fcd | 1.3fcd | 1fcd | 0.8fcd | 0.7fcd | 0.5fcd | 0.5fcd | 0.4fcd | 0.3fcd | 0.3fcd | 0.3fcd | 0.2fcd | 0.2fcd | 0.2fcd | 0.2fcd |

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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 710 | 690 | 680 | 664 | 625 | 586 | 537 | 487 | 434 | 379 | 325 | 273 | 222 | 178 | 136 | 101 | 74 | 48 | 33 | 18 |
| 100% | 97% | 96% | 93% | 88% | 83% | 76% | 69% | 61% | 53% | 46% | 39% | 31% | 25% | 19% | 14% | 10% | 7% | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 710 | 707 | 687 | 668 | 629 | 585 | 537 | 482 | 427 | 372 | 317 | 266 | 217 | 172 | 133 | 94 | 70 | 45 | 29 | 17 |
| 100% | 100% | 97% | 94% | 89% | 82% | 76% | 68% | 60% | 52% | 45% | 37% | 31% | 24% | 19% | 13% | 10% | 6% | 4% | 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° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 710 | 690 | 680 | 664 | 625 | 586 | 537 | 487 | 434 | 379 | 325 | 273 | 222 | 178 | 136 | 101 | 74 | 48 | 33 | 18 |
| 100% | 97% | 96% | 93% | 88% | 83% | 76% | 69% | 61% | 53% | 46% | 39% | 31% | 25% | 19% | 14% | 10% | 7% | 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° |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 710 | 707 | 687 | 668 | 629 | 585 | 537 | 482 | 427 | 372 | 317 | 266 | 217 | 172 | 133 | 94 | 70 | 45 | 29 | 17 |
| 100% | 100% | 97% | 94% | 89% | 82% | 76% | 68% | 60% | 52% | 45% | 37% | 31% | 24% | 19% | 13% | 10% | 6% | 4% | 2% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 37.7° | 65.8° | 78.7° | 99.3% | 98.9% |