

Light efficiency:

66 Lumen/Watt

Light quality:

CRI: 80.9

Color temperature:

2909 K

Output: 3401 lm

Peak: 3682 cd

Power: 51.7 W

PF: 0.99

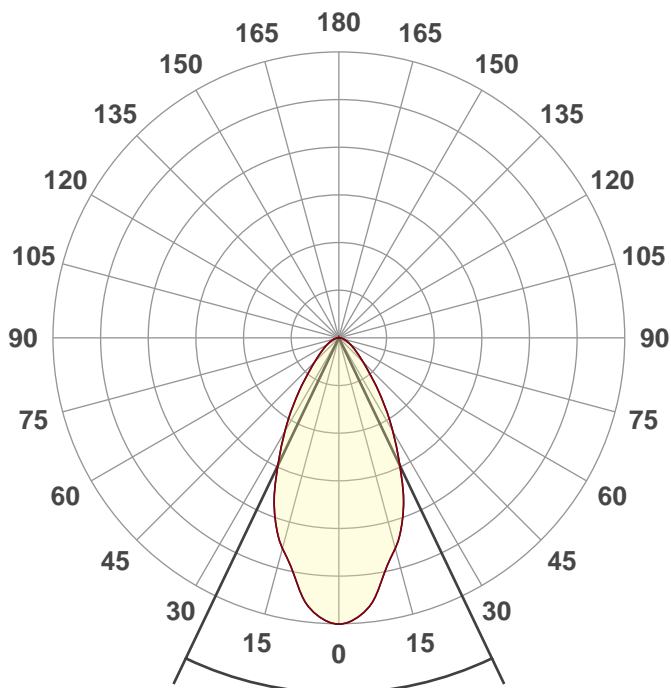


Product name:

E680-4-XTM19-50LM-30K-83-MFDL45-DIM10-WH-RP

Date and time:

7/2/2019 1:53:53 PM



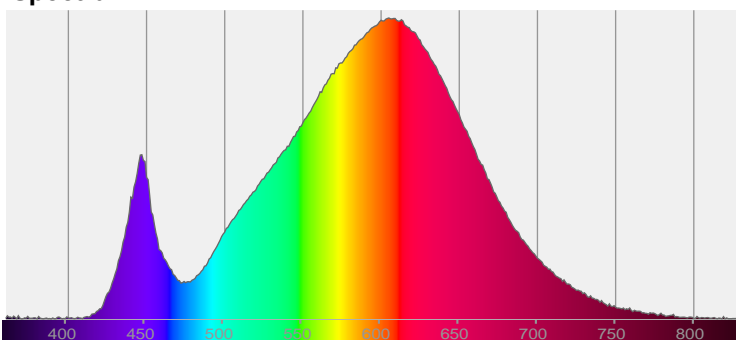
Beam angle

51.1°

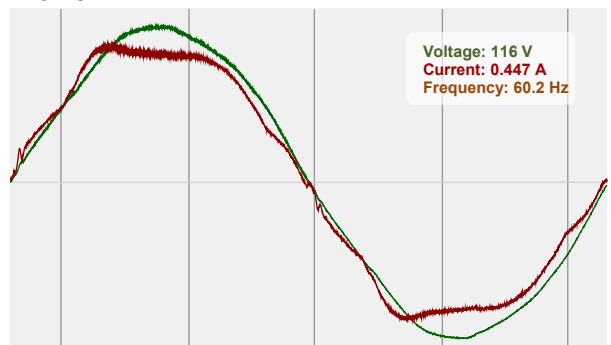


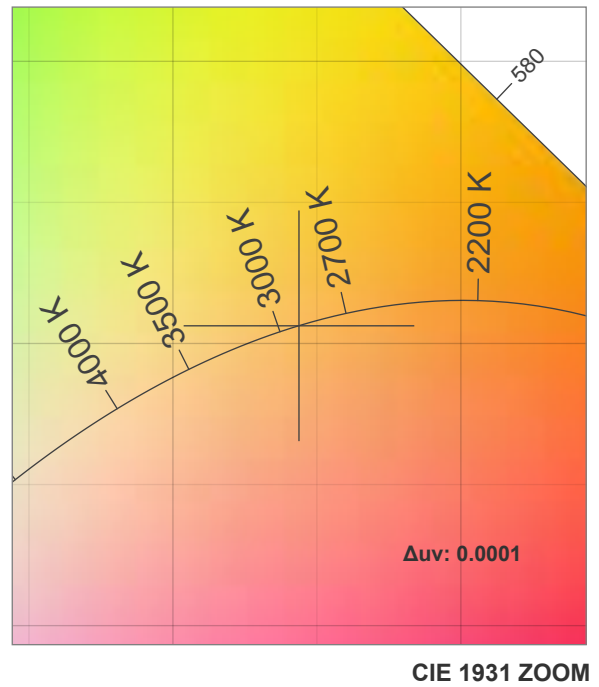
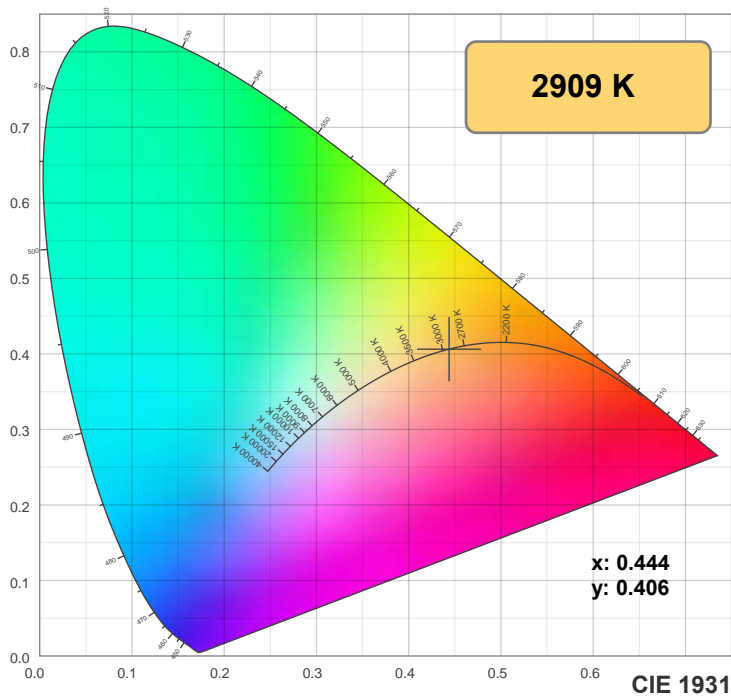
CIE 1931
x: 0.444
y: 0.406

Spectra

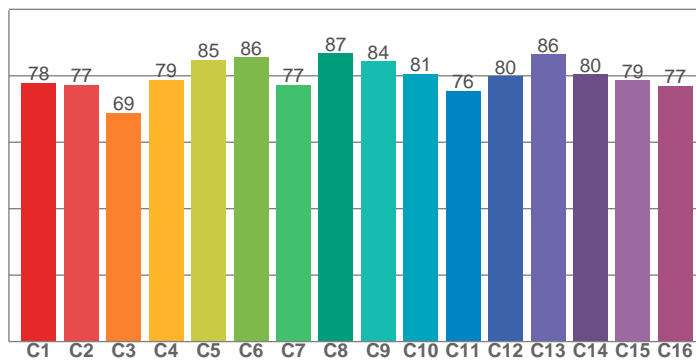


Power

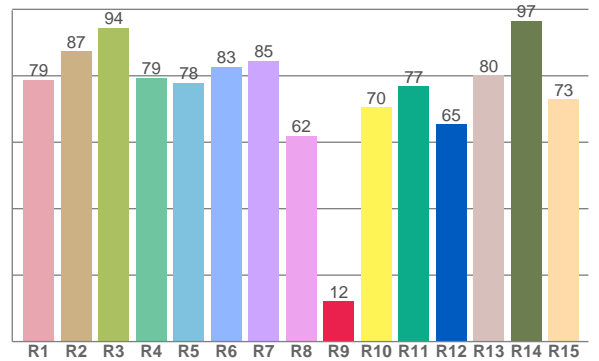




TM30: 79.7



CRI: 80.9 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78.8 | 87.3 | 94.4 | 79.4 | 77.9 | 82.7 | 84.5 | 61.9 | 12.1 | 70.5 | 76.8 | 65.5 | 80.2 | 96.5 | 73.0 |

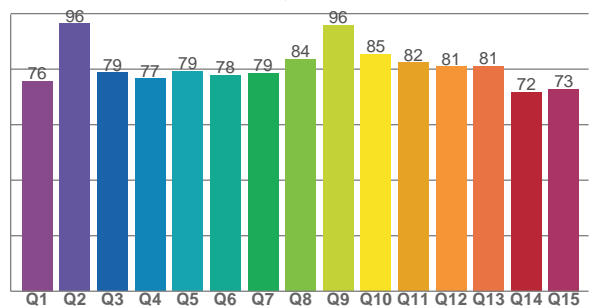
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 77.9 | 77.3 | 68.8 | 78.8 | 84.8 | 85.5 | 77.3 | 86.8 | 84.3 | 80.6 | 75.5 | 79.8 | 86.5 | 80.4 | 78.6 | 77.0 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 75.7 | 96.4 | 78.7 | 76.6 | 79.2 | 77.8 | 78.5 | 83.7 | 95.8 | 85.5 | 82.3 | 80.9 | 81.1 | 71.6 | 72.8 |

CQS: 79.8



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 |
| 2909 K | 80.9 | 12.1 | 79.7 | 98.5 | 79.8 | 0.444 | 0.406 | 0.254 | 0.349 | 0.0001 |

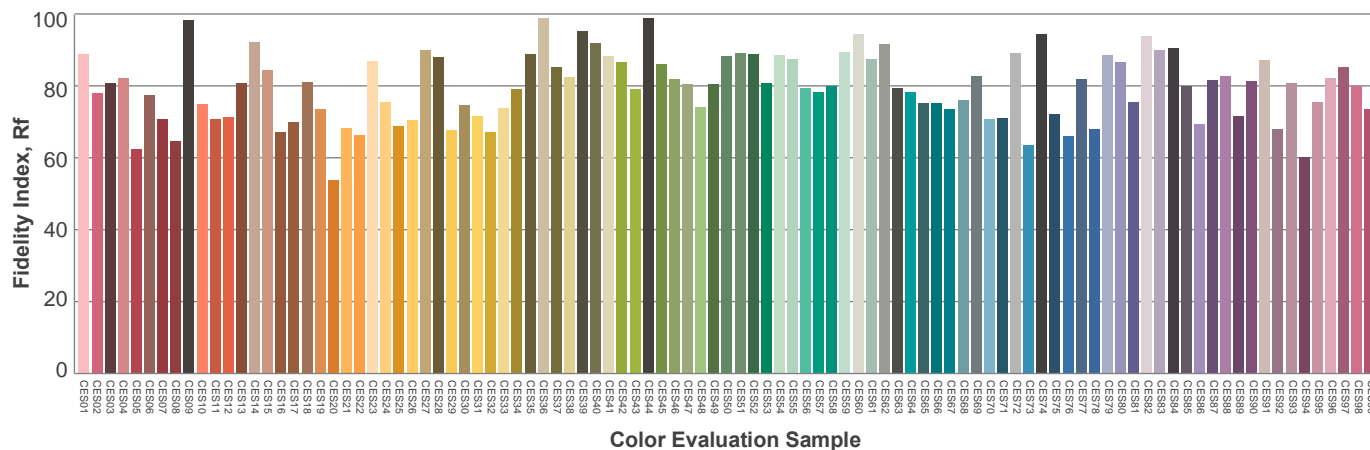
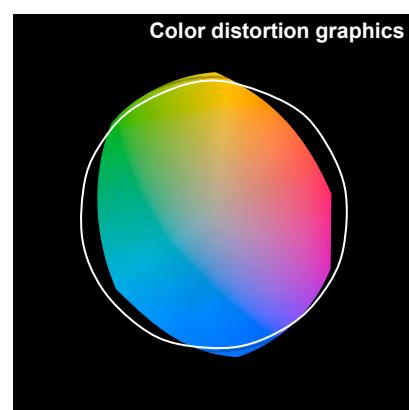
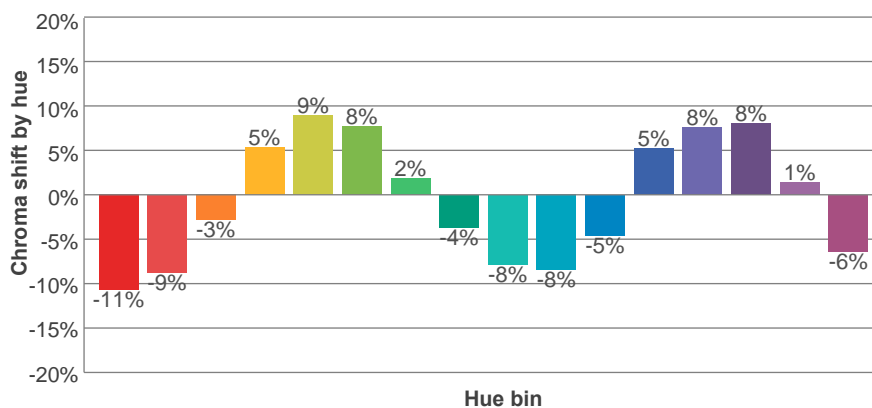
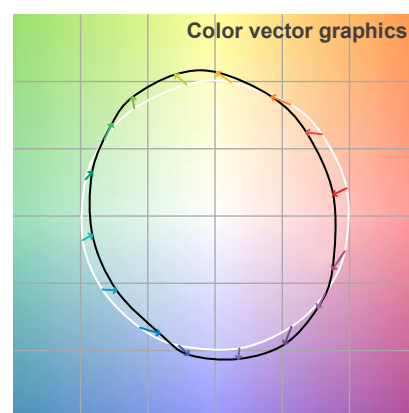
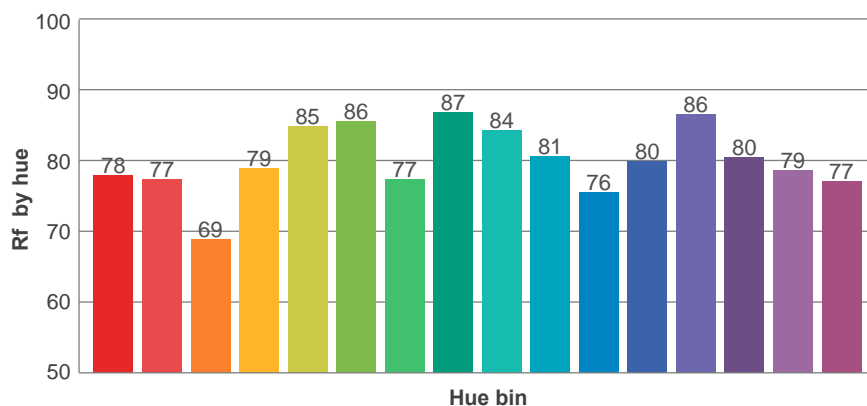
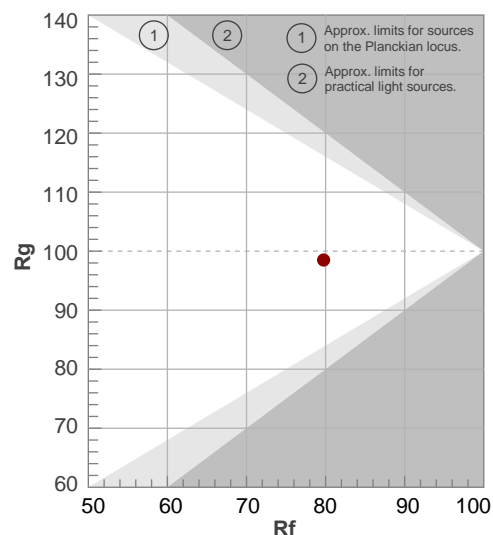
Rf 79.7

Fidelity index Rf

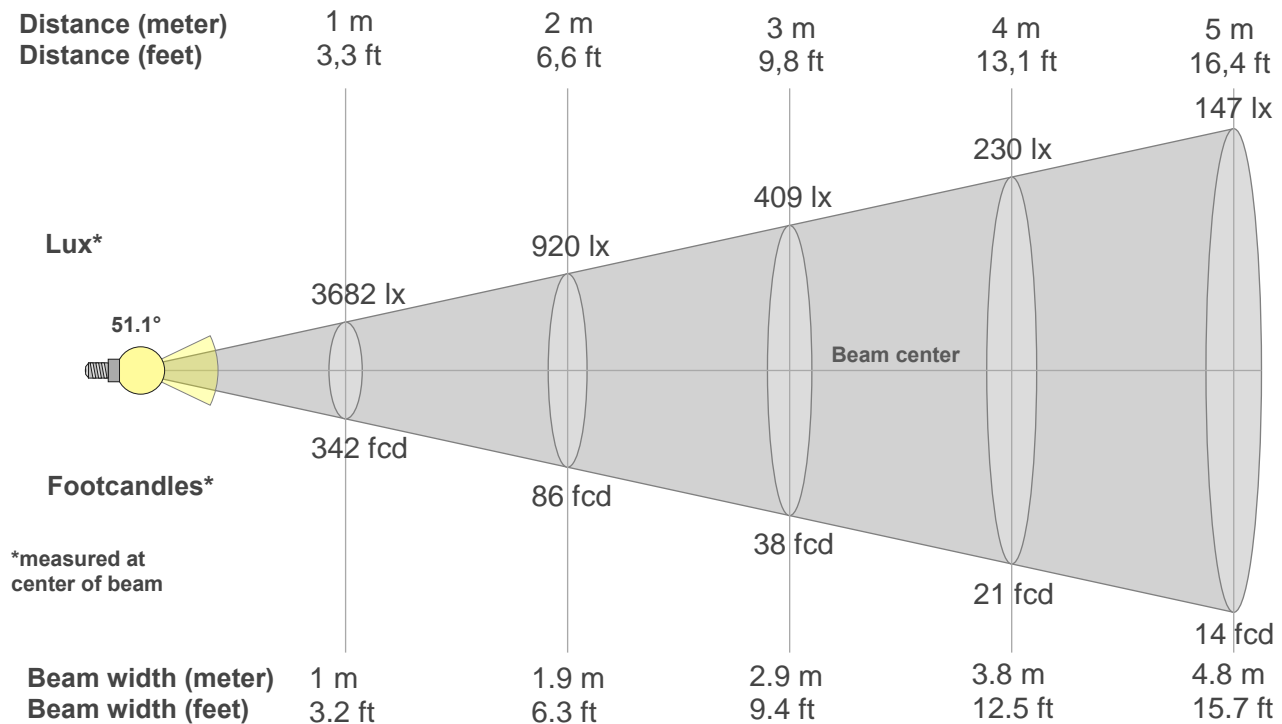
Rg 98.5

Gamut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 78 | -11% | -3% |
| 2 | 77 | -9% | 8% |
| 3 | 69 | -3% | 15% |
| 4 | 79 | 5% | 12% |
| 5 | 85 | 9% | 7% |
| 6 | 86 | 8% | -4% |
| 7 | 77 | 2% | -13% |
| 8 | 87 | -4% | -6% |
| 9 | 84 | -8% | -2% |
| 10 | 81 | -8% | 6% |
| 11 | 76 | -5% | 15% |
| 12 | 80 | 5% | 8% |
| 13 | 86 | 8% | -2% |
| 14 | 80 | 8% | -11% |
| 15 | 79 | 1% | -12% |
| 16 | 77 | -6% | -15% |



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 |
| 3682lx | 920lx | 409lx | 230lx | 147lx | 102lx | 75lx | 58lx | 45lx | 37lx | 30lx | 26lx | 22lx | 19lx | 16lx | 14lx | 13lx | 11lx | 10lx | 9lx |
| 342fcd | 85.5fcd | 38fcd | 21.4fcd | 13.7fcd | 9.5fcd | 7fcd | 5.3fcd | 4.2fcd | 3.4fcd | 2.8fcd | 2.4fcd | 2fcd | 1.7fcd | 1.5fcd | 1.3fcd | 1.2fcd | 1.1fcd | 0.9fcd | 0.9fcd |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| 3682 | 3682 | 3600 | 3512 | 3379 | 3197 | 3015 | 2885 | 2754 | 2597 | 2418 | 2235 | 2012 | 1788 | 1590 | 1407 | 1228 | 1071 | 914 | 785 |
| 100% | 100% | 98% | 95% | 92% | 87% | 82% | 78% | 75% | 71% | 66% | 61% | 55% | 49% | 43% | 38% | 33% | 29% | 25% | 21% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| 3682 | 3682 | 3600 | 3512 | 3379 | 3197 | 3015 | 2885 | 2754 | 2597 | 2418 | 2235 | 2012 | 1788 | 1590 | 1407 | 1228 | 1071 | 914 | 785 |
| 100% | 100% | 98% | 95% | 92% | 87% | 82% | 78% | 75% | 71% | 66% | 61% | 55% | 49% | 43% | 38% | 33% | 29% | 25% | 21% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| 3682 | 3682 | 3600 | 3512 | 3379 | 3197 | 3015 | 2885 | 2754 | 2597 | 2418 | 2235 | 2012 | 1788 | 1590 | 1407 | 1228 | 1071 | 914 | 785 |
| 100% | 100% | 98% | 95% | 92% | 87% | 82% | 78% | 75% | 71% | 66% | 61% | 55% | 49% | 43% | 38% | 33% | 29% | 25% | 21% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| 3682 | 3682 | 3600 | 3512 | 3379 | 3197 | 3015 | 2885 | 2754 | 2597 | 2418 | 2235 | 2012 | 1788 | 1590 | 1407 | 1228 | 1071 | 914 | 785 |
| 100% | 100% | 98% | 95% | 92% | 87% | 82% | 78% | 75% | 71% | 66% | 61% | 55% | 49% | 43% | 38% | 33% | 29% | 25% | 21% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 51.1° | 95.9° | 140.1° | 93.1% | 82.4% |