

Light efficiency:

91 Lumen/Watt

Light quality:

CRI: 84.6

Color temperature:

3007 K

Output: 2424 lm

Peak: 1596 cd

Power: 26.7 W

PF: 0.98

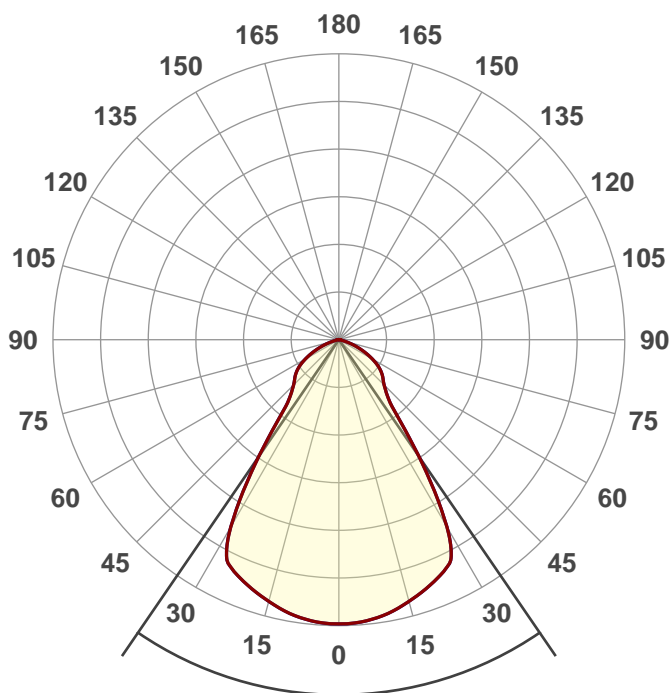


Product name:

NU4-RD-SW-30LM-30K-80-
WH70-120-DIM10-NC-WH-WH

Date and time:

8/3/2018 3:40:41 PM



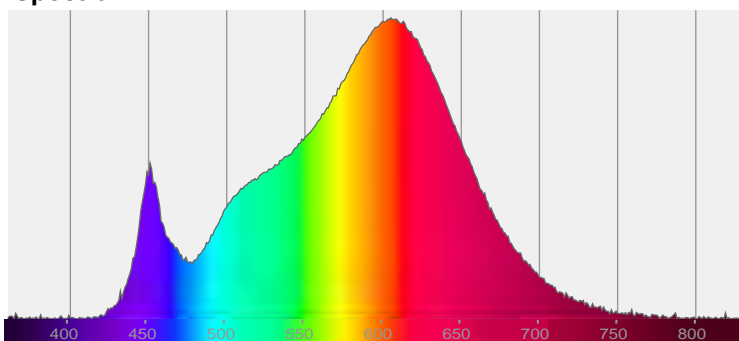
Beam angle

68.9°

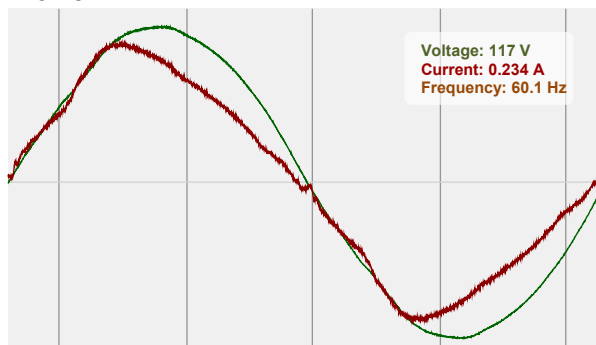


CIE 1931
x: 0.440
y: 0.410

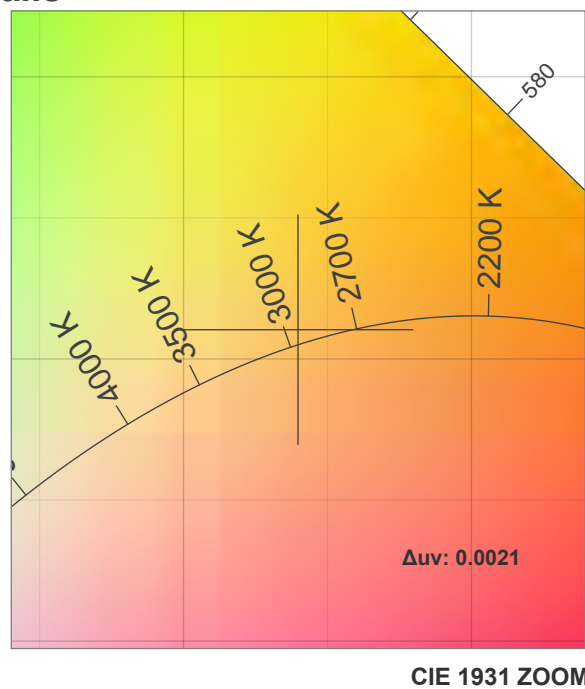
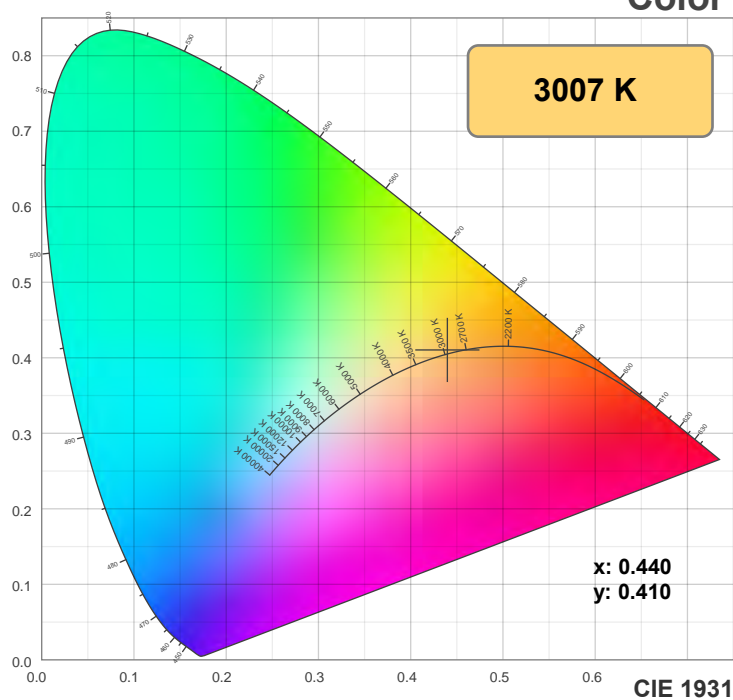
Spectra



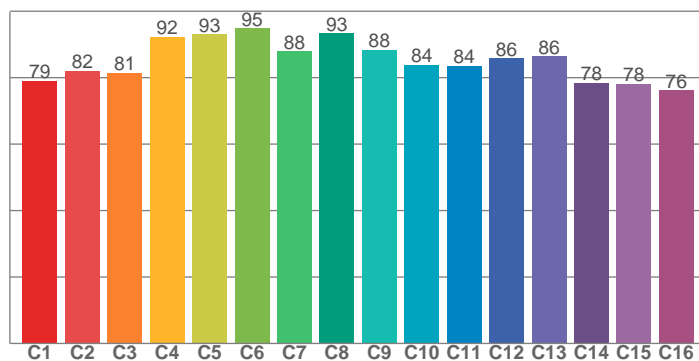
Power



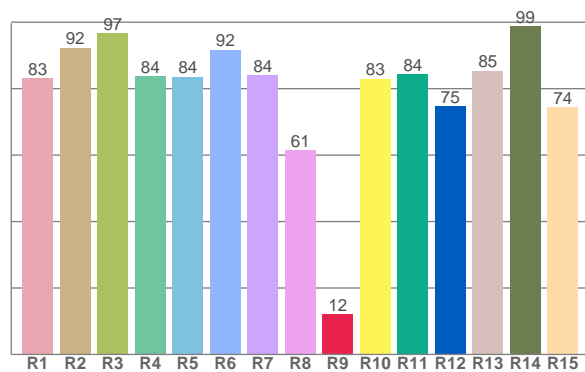
Color details



TM30: 85.4



CRI: 84.6 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 83.1 | 92.3 | 96.7 | 83.7 | 83.5 | 91.7 | 84.1 | 61.5 | 12.2 | 83.0 | 84.3 | 74.8 | 85.4 | 98.7 | 74.3 |

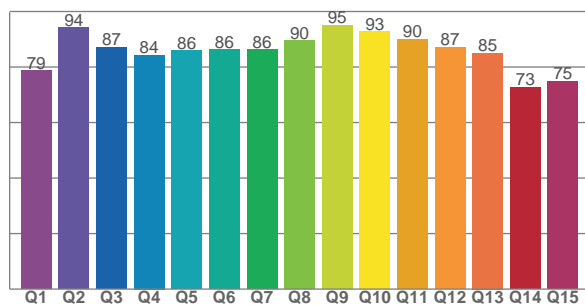
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78.9 | 82.0 | 81.4 | 92.2 | 93.0 | 94.9 | 88.0 | 93.4 | 88.4 | 83.9 | 83.6 | 85.8 | 86.4 | 78.4 | 78.1 | 76.2 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78.7 | 94.3 | 87.1 | 84.3 | 86.0 | 86.3 | 86.3 | 89.6 | 95.1 | 92.8 | 90.0 | 87.1 | 85.0 | 72.7 | 74.9 |

CQS: 84.5



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 |
| 3007 K | 84.6 | 12.2 | 85.4 | 95.0 | 84.5 | 0.440 | 0.410 | 0.250 | 0.350 | 0.0021 |

TM30 details

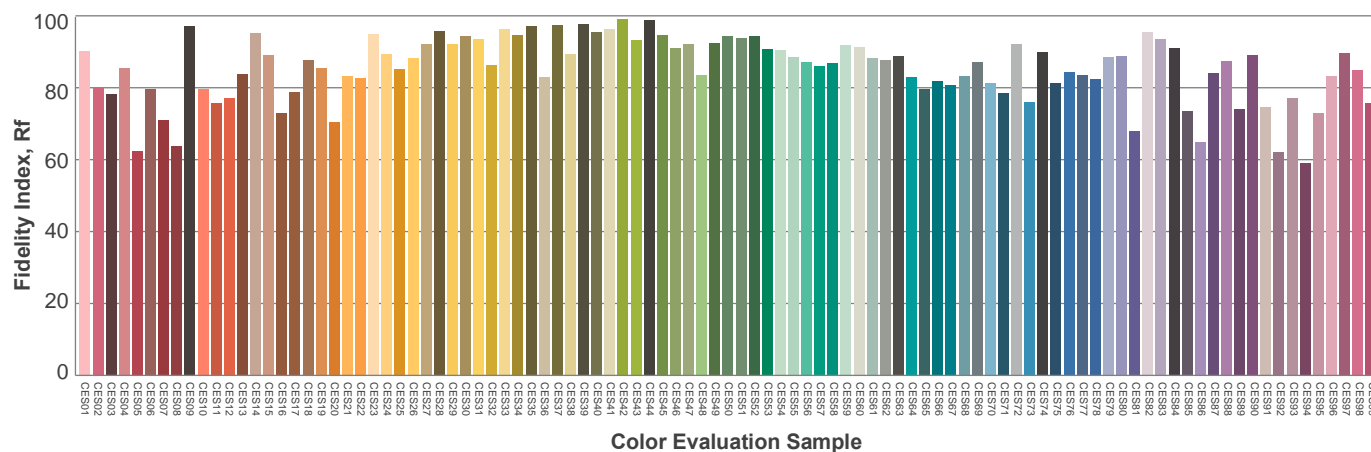
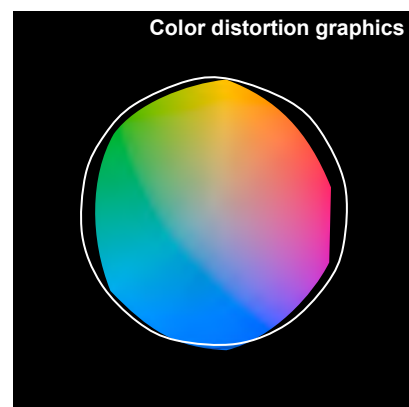
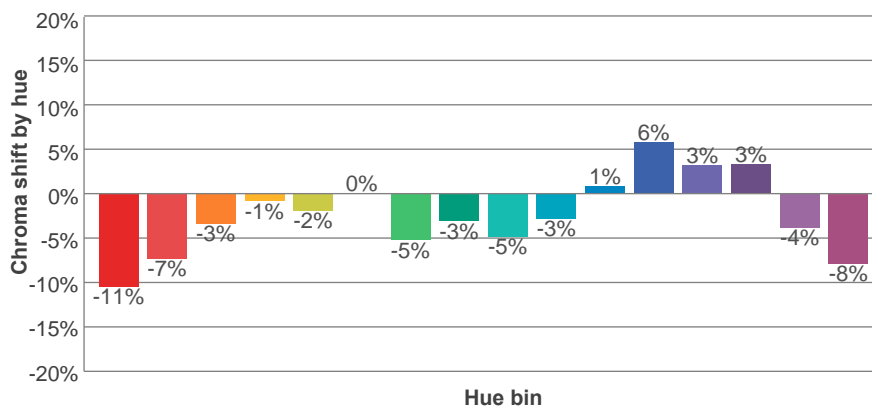
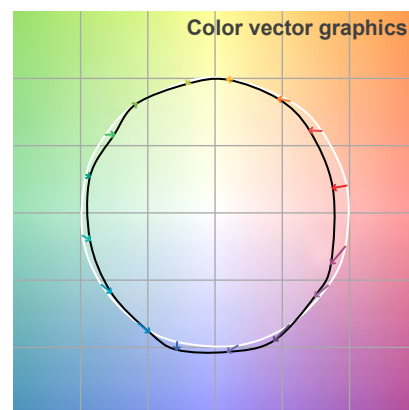
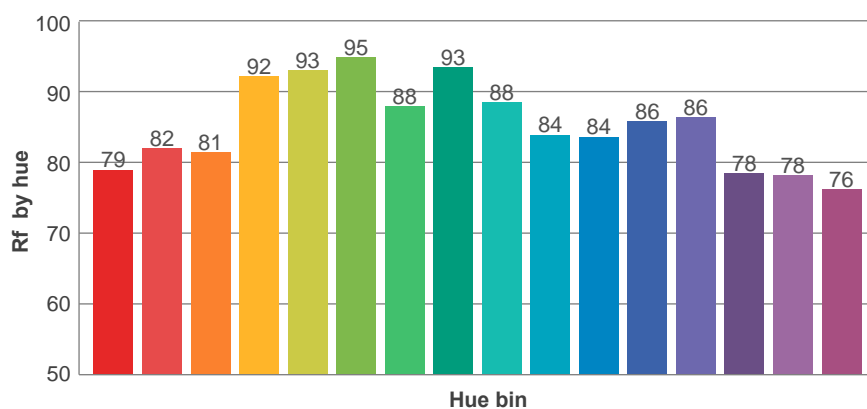
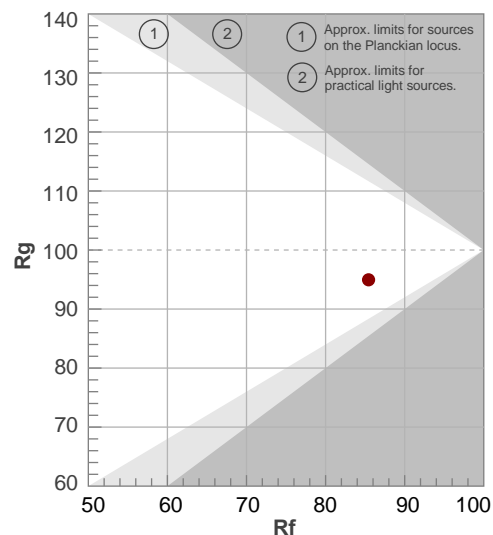
Rf 85.4

Fidelity index Rf

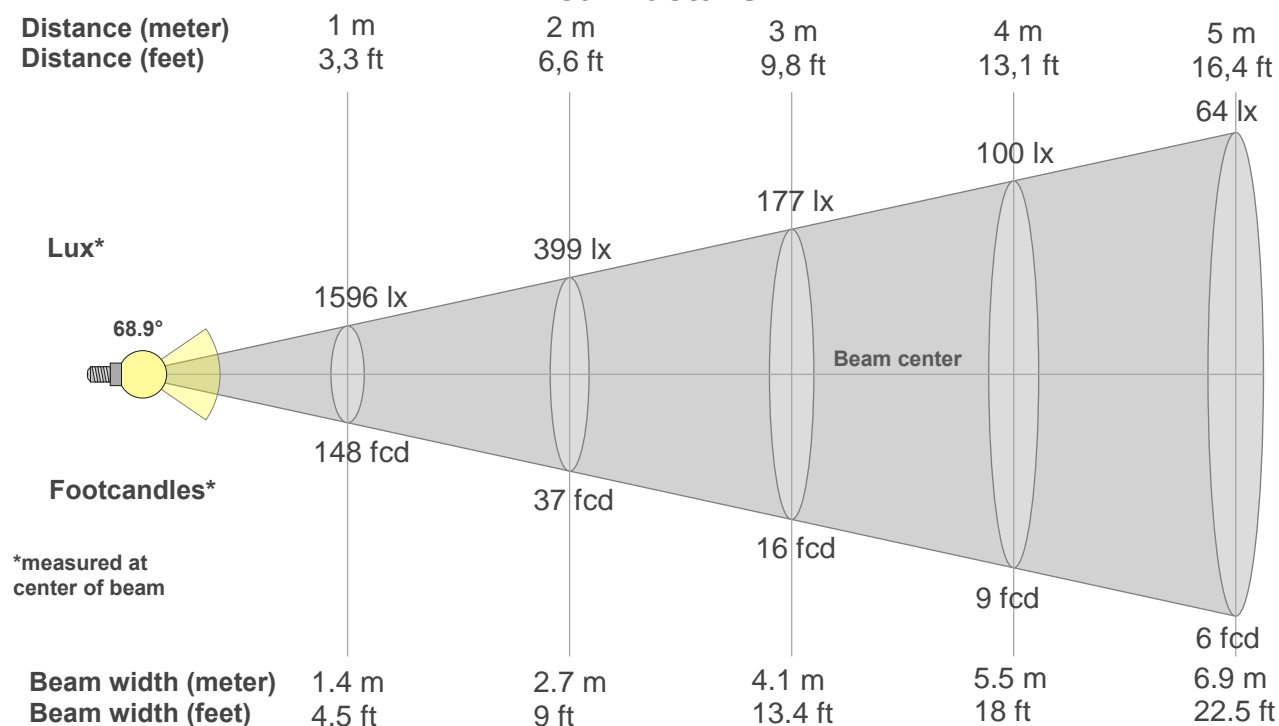
Rg 95.0

Gammut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 79 | -11% | 0% |
| 2 | 82 | -7% | 5% |
| 3 | 81 | -3% | 8% |
| 4 | 92 | -1% | 4% |
| 5 | 93 | -2% | 2% |
| 6 | 95 | 0% | -1% |
| 7 | 88 | -5% | -4% |
| 8 | 93 | -3% | 1% |
| 9 | 88 | -5% | 4% |
| 10 | 84 | -3% | 9% |
| 11 | 84 | 1% | 11% |
| 12 | 86 | 6% | 1% |
| 13 | 86 | 3% | -8% |
| 14 | 78 | 3% | -16% |
| 15 | 78 | -4% | -12% |
| 16 | 76 | -8% | -14% |



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 |
| 1596lx | 399lx | 177lx | 100lx | 64lx | 44lx | 33lx | 25lx | 20lx | 16lx | 13lx | 11lx | 9lx | 8lx | 7lx | 6lx | 6lx | 5lx | 4lx | 4lx |
| 148.3fc | 37.1fcd | 16.5fcd | 9.3fcd | 5.9fcd | 4.1fcd | 3fcd | 2.3fcd | 1.8fcd | 1.5fcd | 1.2fcd | 1fcd | 0.9fcd | 0.8fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.5fcd | 0.4fcd | 0.4fcd |

Intensities in 0° c-plane

| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1596 | 1589 | 1563 | 1522 | 1475 | 1420 | 1208 | 746 | 439 | 360 | 321 | 277 | 217 | 151 | 88 | 37 | 9 | 6 | 0 | 0 |
| 100% | 100% | 98% | 95% | 92% | 89% | 76% | 47% | 28% | 23% | 20% | 17% | 14% | 9% | 6% | 2% | 1% | 0% | 0% | 0% |

Intensities in 90° c-plane

| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1596 | 1589 | 1563 | 1522 | 1475 | 1420 | 1208 | 746 | 439 | 360 | 321 | 277 | 217 | 151 | 88 | 37 | 9 | 6 | 0 | 0 |
| 100% | 100% | 98% | 95% | 92% | 89% | 76% | 47% | 28% | 23% | 20% | 17% | 14% | 9% | 6% | 2% | 1% | 0% | 0% | 0% |

Intensities in 180° c-plane

| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1596 | 1589 | 1563 | 1522 | 1475 | 1420 | 1208 | 746 | 439 | 360 | 321 | 277 | 217 | 151 | 88 | 37 | 9 | 6 | 0 | 0 |
| 100% | 100% | 98% | 95% | 92% | 89% | 76% | 47% | 28% | 23% | 20% | 17% | 14% | 9% | 6% | 2% | 1% | 0% | 0% | 0% |

Intensities in 270° c-plane

| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1596 | 1589 | 1563 | 1522 | 1475 | 1420 | 1208 | 746 | 439 | 360 | 321 | 277 | 217 | 151 | 88 | 37 | 9 | 6 | 0 | 0 |
| 100% | 100% | 98% | 95% | 92% | 89% | 76% | 47% | 28% | 23% | 20% | 17% | 14% | 9% | 6% | 2% | 1% | 0% | 0% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 68.9° | 128.7° | 149.4° | 91.8% | 76.0% |