

Light efficiency:

57 Lumen/Watt

Light quality:

CRI: 81.2

Color temperature:

3036 K

Output: 2187 lm

Peak: 4427 cd

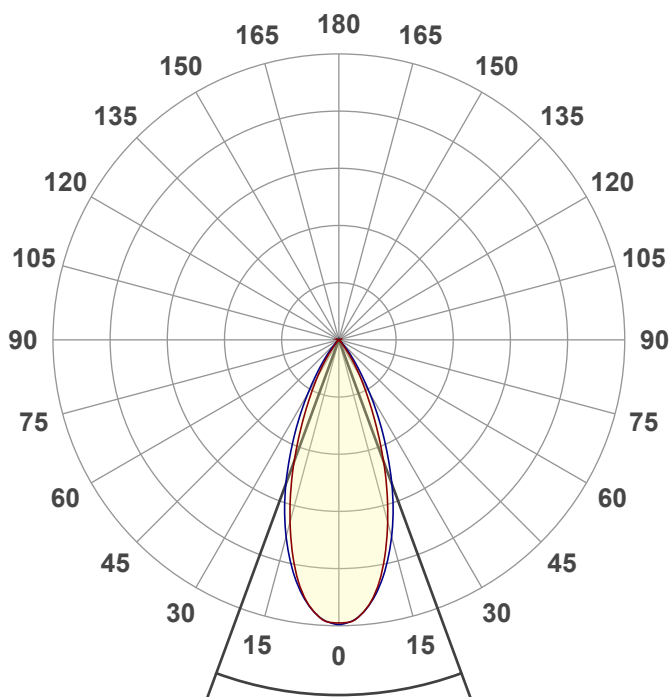
Power: 38.3 W

PF: 0.99



NU4-RAPH-SW-40LM-30K-80-35D-DL-WH

Date and time:
12/16/2021 2:15:13 PM



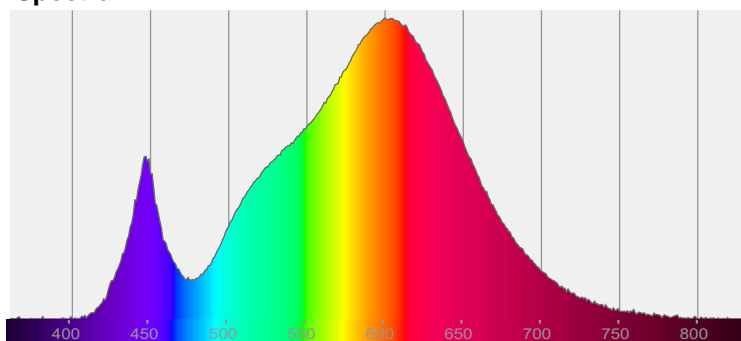
Beam angle

40.4°

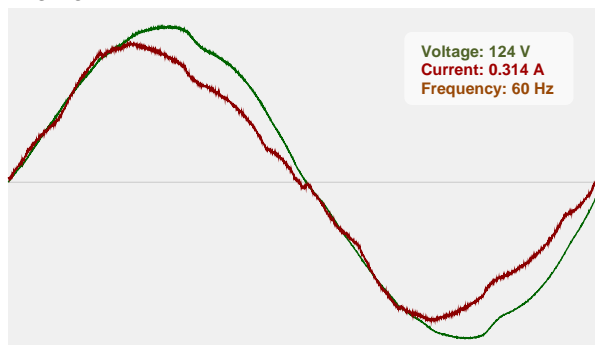


CIE 1931
x: 0.436
y: 0.405

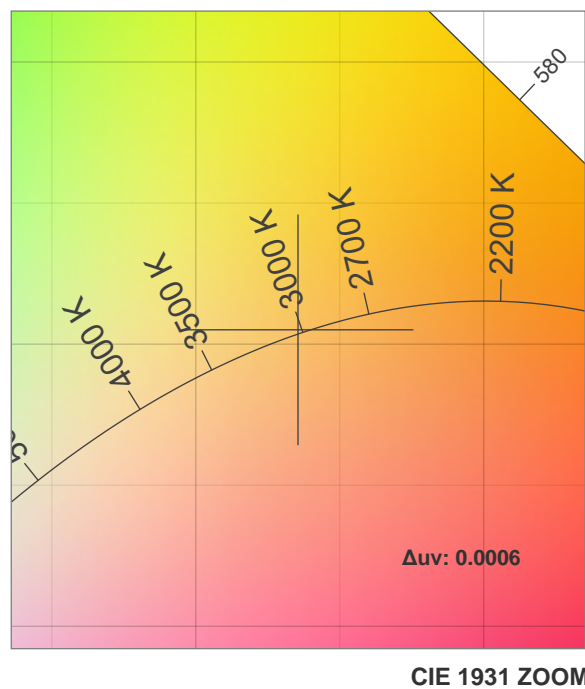
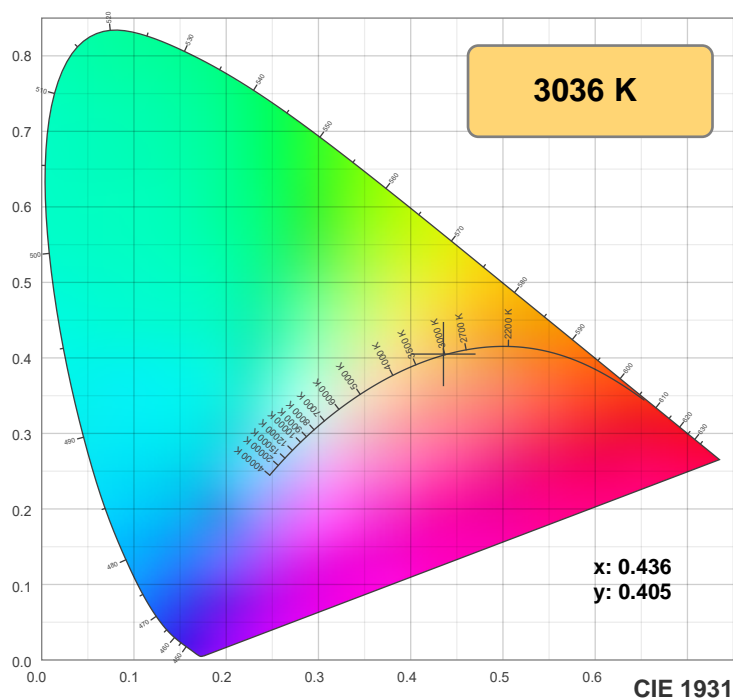
Spectra



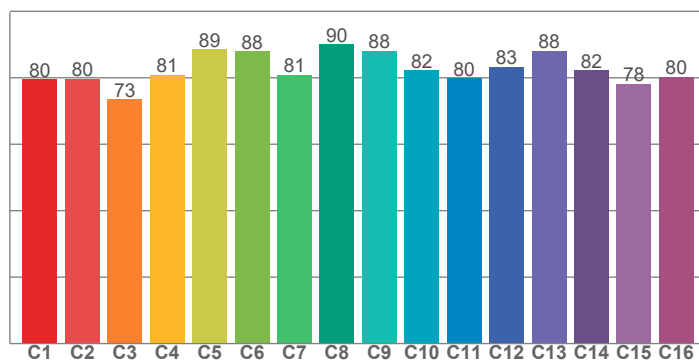
Power



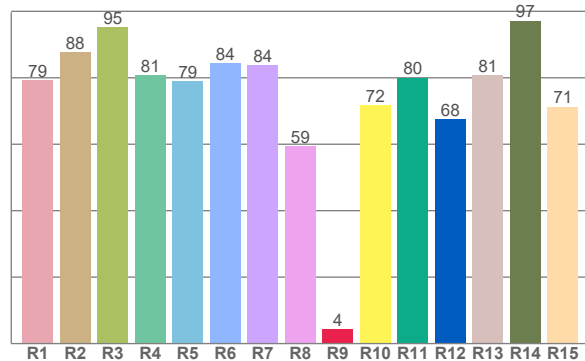
Voltage: 124 V
Current: 0.314 A
Frequency: 60 Hz



TM30: 82.6



CRI: 81.2 (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 |
|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|
| 79.2 | 87.6 | 95.3 | 80.8 | 78.9 | 84.3 | 83.8 | 59.5 | 4.3 | 71.6 | 80.0 | 67.5 | 80.8 | 97.2 | 71.3 |

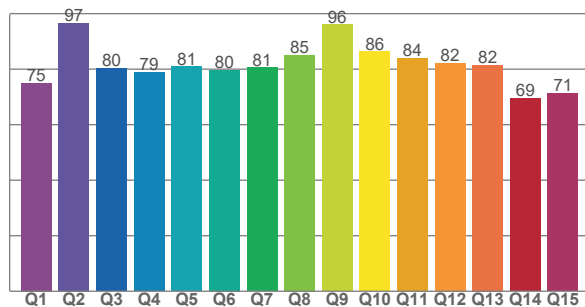
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 79.5 | 79.6 | 73.5 | 80.9 | 88.6 | 88.0 | 81.0 | 90.0 | 88.2 | 82.2 | 79.9 | 83.3 | 88.1 | 82.2 | 78.1 | 80.3 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 75.1 | 96.5 | 80.3 | 78.8 | 81.0 | 79.7 | 80.5 | 85.0 | 96.1 | 86.4 | 84.0 | 82.2 | 81.6 | 69.5 | 71.3 |

CQS: 80.4



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 |
| 3036 K | 81.2 | 4.3 | 82.6 | 98.1 | 80.4 | 0.436 | 0.405 | 0.249 | 0.348 | 0.0006 |

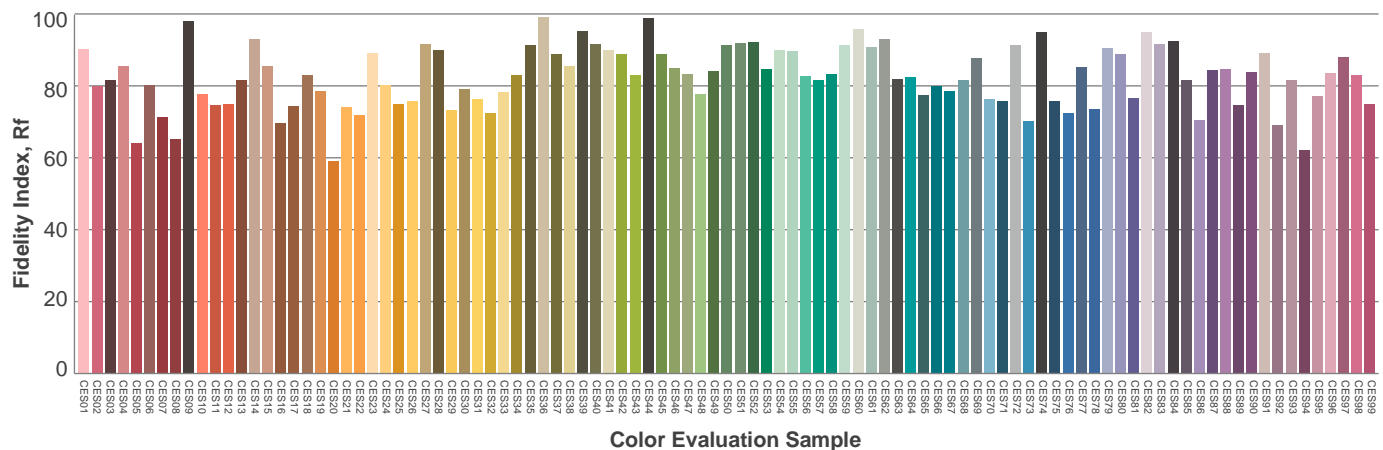
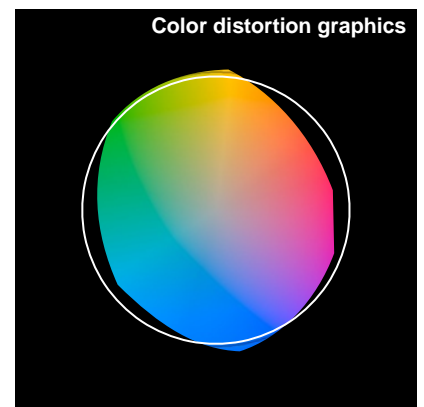
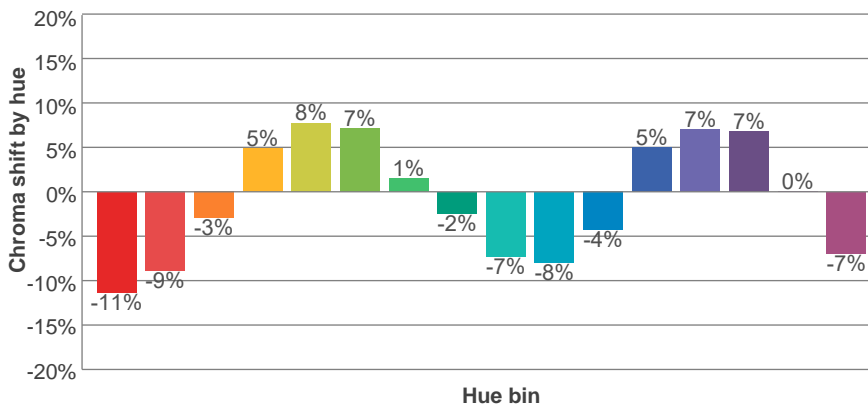
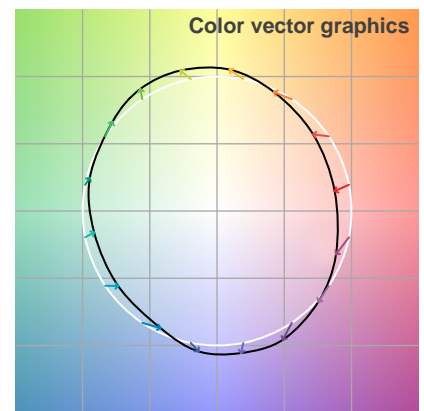
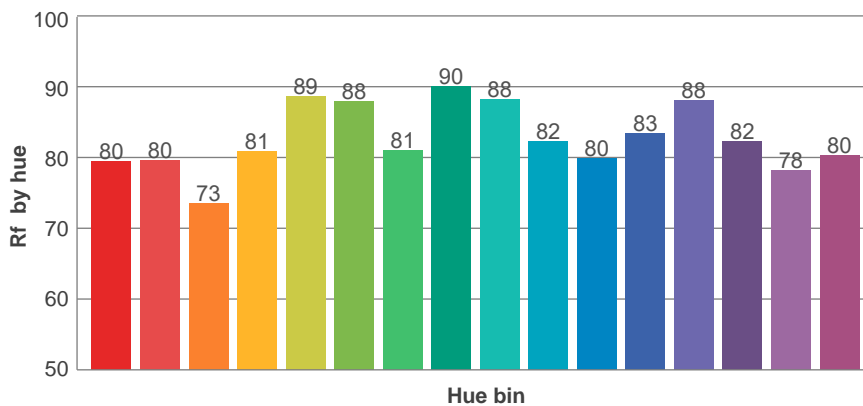
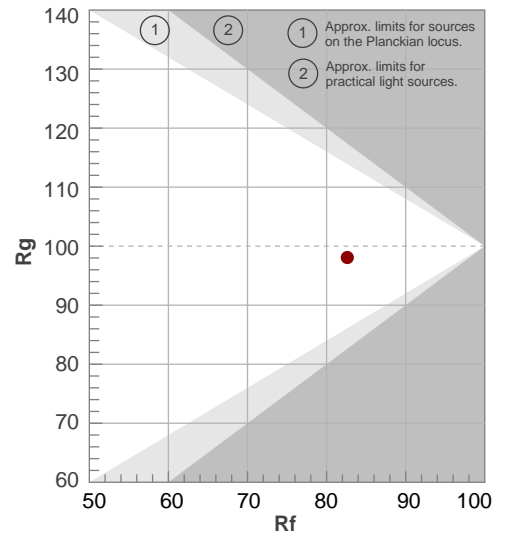
Rf 82.6

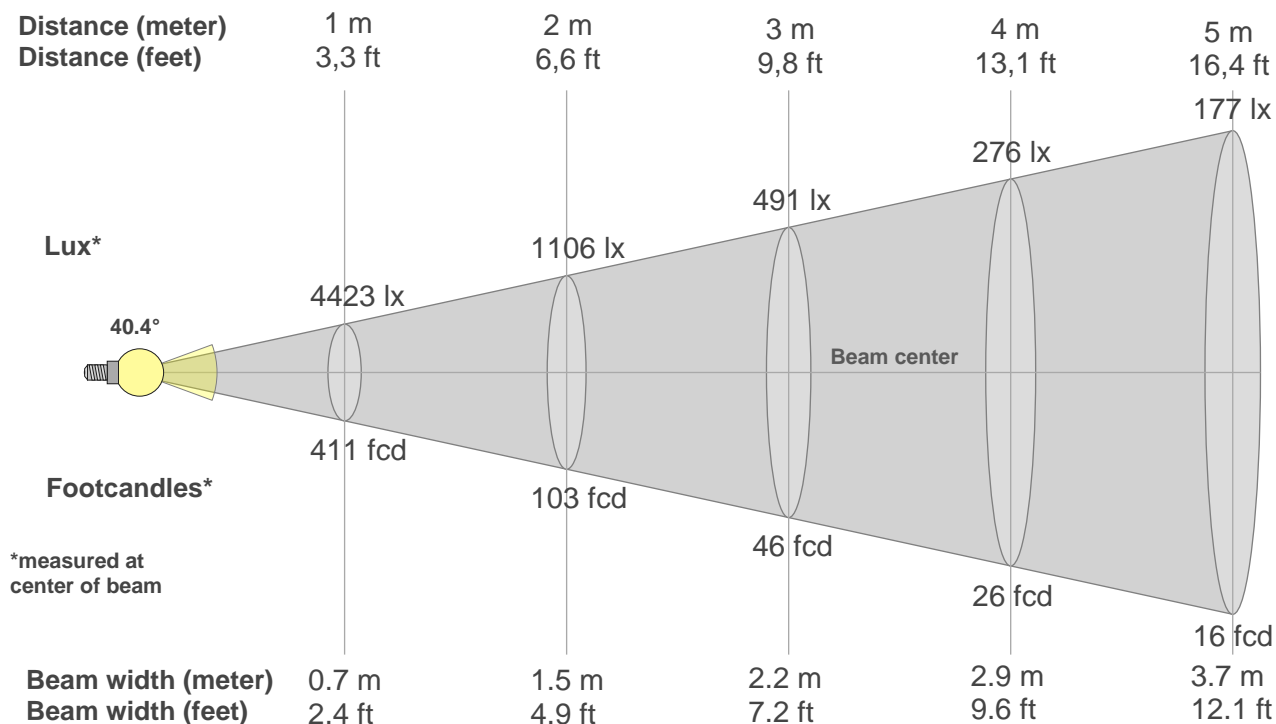
Fidelity index Rf

Rg 98.1

Gammut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 80 | -11% | -3% |
| 2 | 80 | -9% | 8% |
| 3 | 73 | -3% | 14% |
| 4 | 81 | 5% | 11% |
| 5 | 89 | 8% | 6% |
| 6 | 88 | 7% | -3% |
| 7 | 81 | 1% | -12% |
| 8 | 90 | -2% | -6% |
| 9 | 88 | -7% | -2% |
| 10 | 82 | -8% | 6% |
| 11 | 80 | -4% | 13% |
| 12 | 83 | 5% | 7% |
| 13 | 88 | 7% | -3% |
| 14 | 82 | 7% | -12% |
| 15 | 78 | 0% | -14% |
| 16 | 80 | -7% | -14% |





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 |
| 4423lx | 1106lx | 491lx | 276lx | 177lx | 123lx | 90lx | 69lx | 55lx | 44lx | 37lx | 31lx | 26lx | 23lx | 20lx | 17lx | 15lx | 14lx | 12lx | 11lx |
| 410.9fcd | 102.7fcd | 45.7fcd | 25.7fcd | 16.4fcd | 11.4fcd | 8.4fcd | 6.4fcd | 5.1fcd | 4.1fcd | 3.4fcd | 2.9fcd | 2.4fcd | 2.1fcd | 1.8fcd | 1.6fcd | 1.4fcd | 1.3fcd | 1.1fcd | 1fcd |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| 4423 | 4395 | 4317 | 4182 | 3990 | 3742 | 3442 | 3106 | 2759 | 2408 | 2053 | 1702 | 1379 | 1103 | 870 | 673 | 503 | 351 | 218 | 124 |
| 100% | 99% | 98% | 95% | 90% | 85% | 78% | 70% | 62% | 54% | 46% | 38% | 31% | 25% | 20% | 15% | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 4423 | 4393 | 4318 | 4194 | 4024 | 3813 | 3571 | 3307 | 3027 | 2732 | 2420 | 2098 | 1787 | 1494 | 1219 | 964 | 746 | 564 | 417 | 301 |
| 100% | 99% | 98% | 95% | 91% | 86% | 81% | 75% | 68% | 62% | 55% | 47% | 40% | 34% | 28% | 22% | 17% | 13% | 9% | 7% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| 4423 | 4395 | 4317 | 4182 | 3990 | 3742 | 3442 | 3106 | 2759 | 2408 | 2053 | 1702 | 1379 | 1103 | 870 | 673 | 503 | 351 | 218 | 124 |
| 100% | 99% | 98% | 95% | 90% | 85% | 78% | 70% | 62% | 54% | 46% | 38% | 31% | 25% | 20% | 15% | 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|
| 4423 | 4393 | 4318 | 4194 | 4024 | 3813 | 3571 | 3307 | 3027 | 2732 | 2420 | 2098 | 1787 | 1494 | 1219 | 964 | 746 | 564 | 417 | 301 |
| 100% | 99% | 98% | 95% | 91% | 86% | 81% | 75% | 68% | 62% | 55% | 47% | 40% | 34% | 28% | 22% | 17% | 13% | 9% | 7% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 40.4° | 68.4° | 81.4° | 99.6% | 99.2% |