

Light efficiency:



Light quality:



Color temperature:

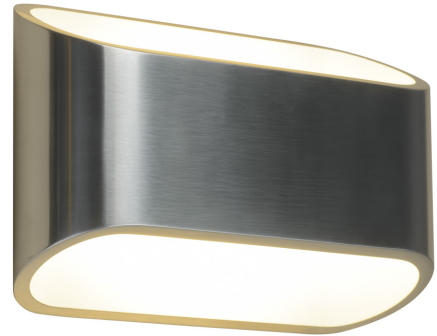


Output: 623 lm

Peak: 184 cd

Power: 9.6 W

PF: 1.0

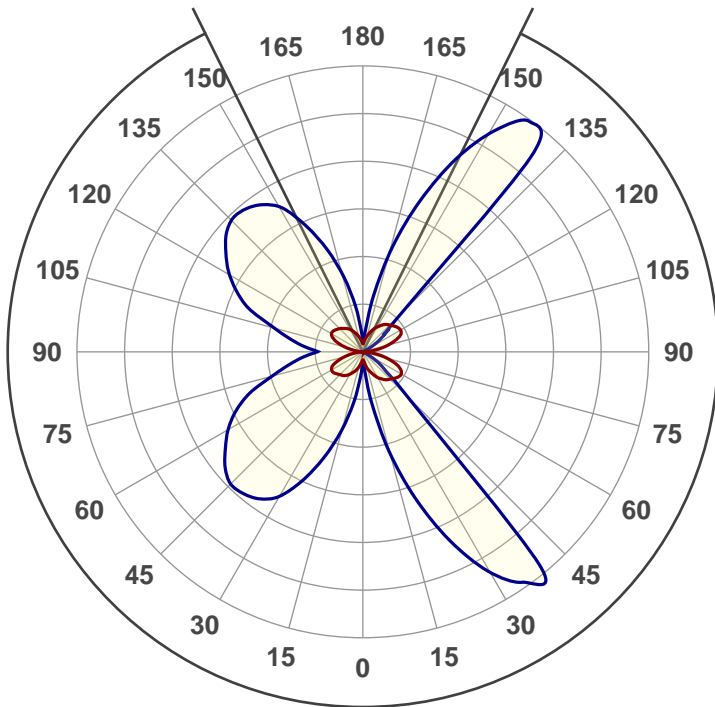


Product name:

103050-al-wh-3-90

Date and time:

2/22/2018 1:36:37 PM

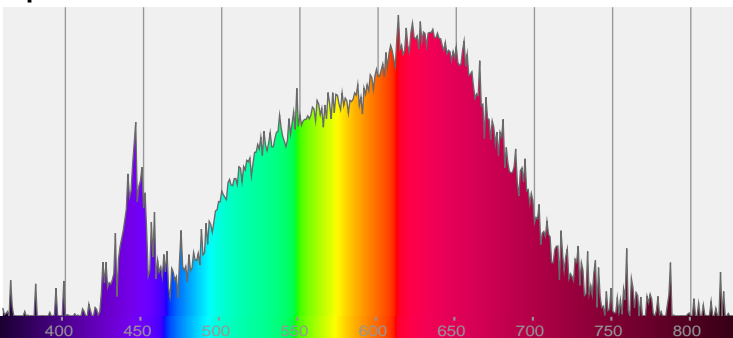


Beam angle **307.3°**

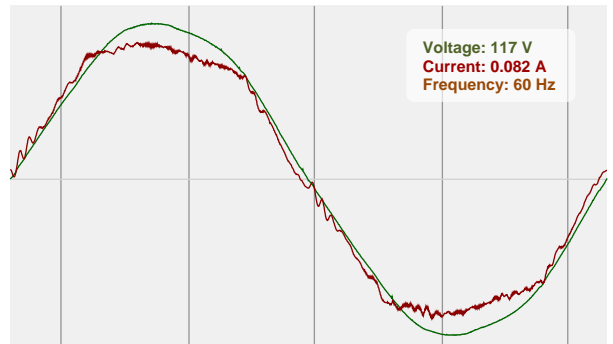


CIE 1931
x: 0.434
y: 0.413

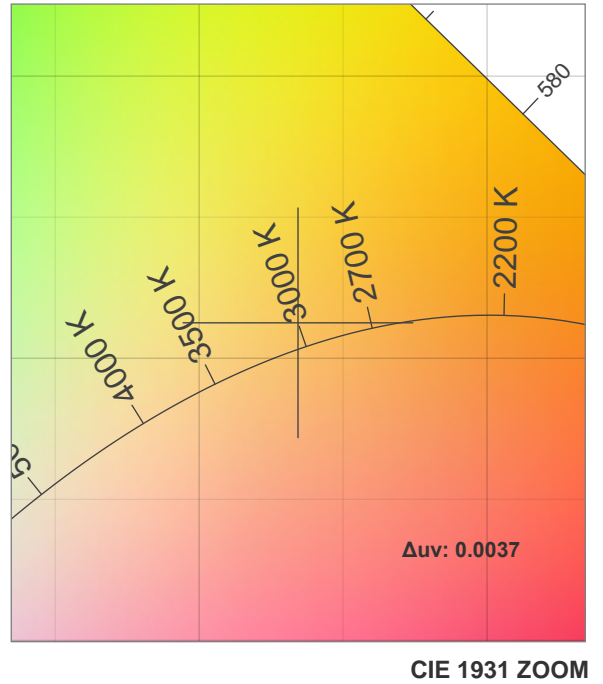
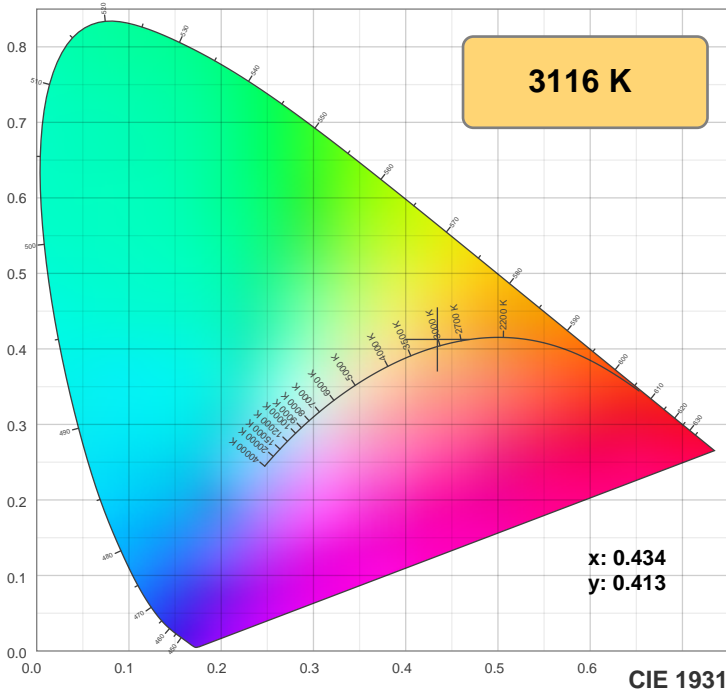
Spectra



Power

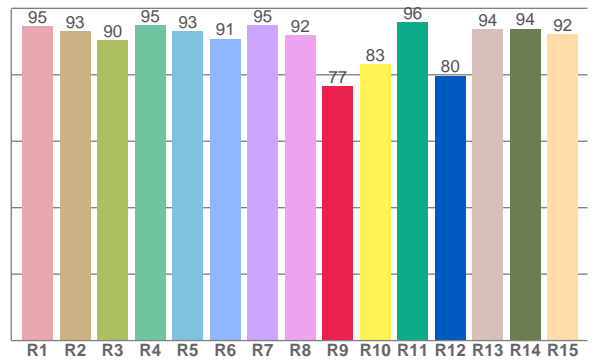
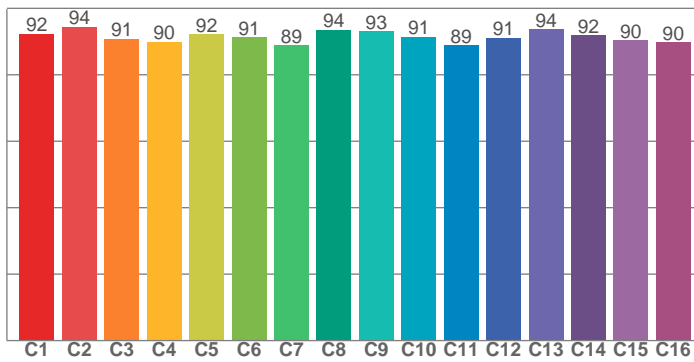


Color details



TM30: 91.5

CRI: 93.0 (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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 94.6 | 93.1 | 90.4 | 94.8 | 93.2 | 90.8 | 94.8 | 91.8 | 76.5 | 83.2 | 95.7 | 79.7 | 93.7 | 93.9 | 92.1 |

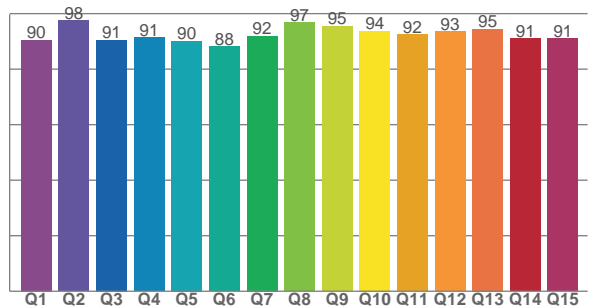
TM30 C values, 16 binned values out of total of 99 C values

| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 92.3 | 94.5 | 90.9 | 89.9 | 92.1 | 91.3 | 88.8 | 93.5 | 93.1 | 91.3 | 88.9 | 91.1 | 93.7 | 91.9 | 90.4 | 89.7 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 90.5 | 97.5 | 90.5 | 91.4 | 90.1 | 88.1 | 91.9 | 96.8 | 95.4 | 93.7 | 92.4 | 93.5 | 94.5 | 91.1 | 91.0 |

CQS: 92.0



Color parameters

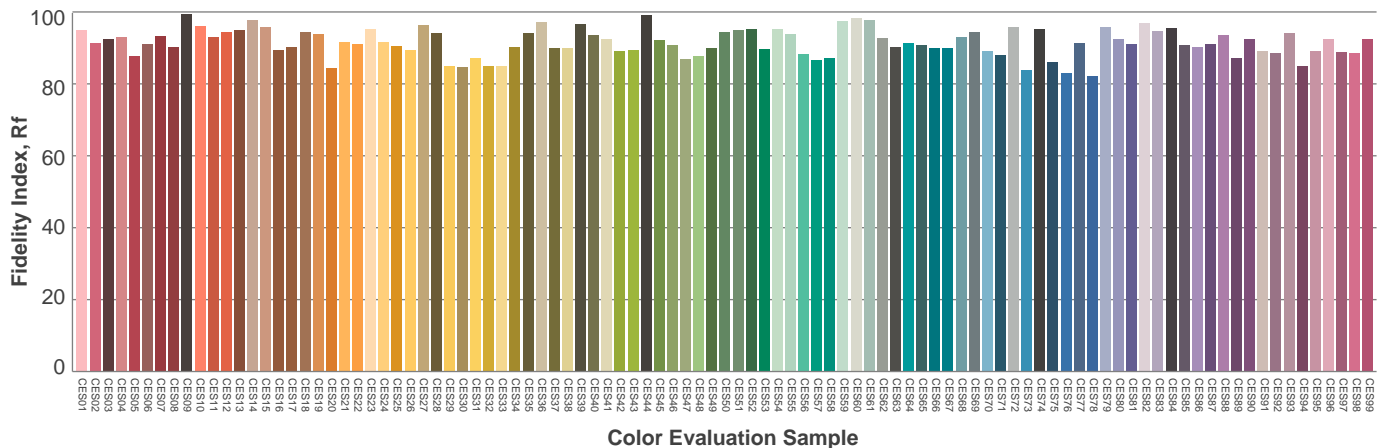
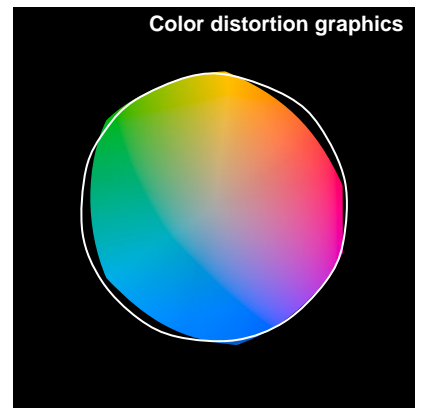
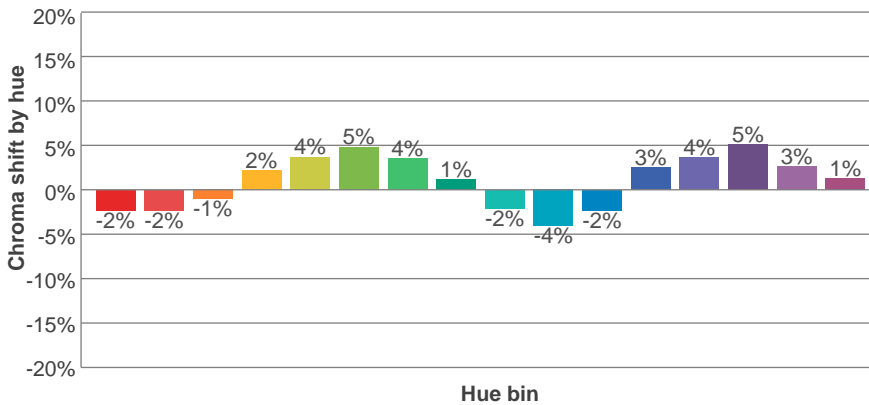
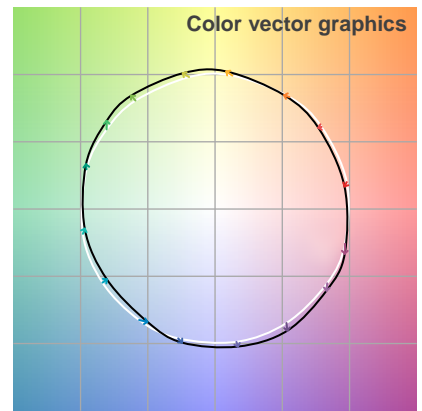
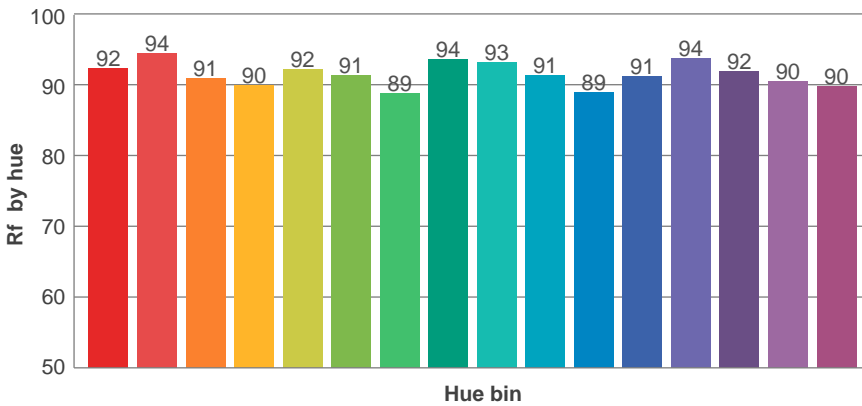
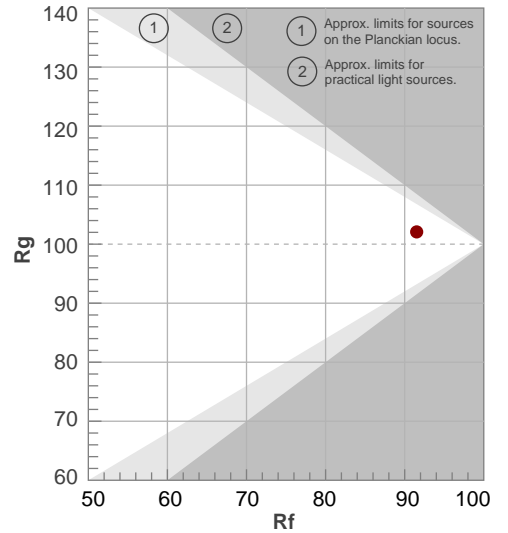
| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Color coordinate cie 1931 | Color coordinate cie 1931 | Color coordinate | Color coordinate | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|------------------|------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | x | y | u | v | Δuv |
| 3116 K | 93.0 | 76.5 | 91.5 | 102.1 | 92.0 | 0.434 | 0.413 | 0.245 | 0.350 | 0.0037 |

TM30 details

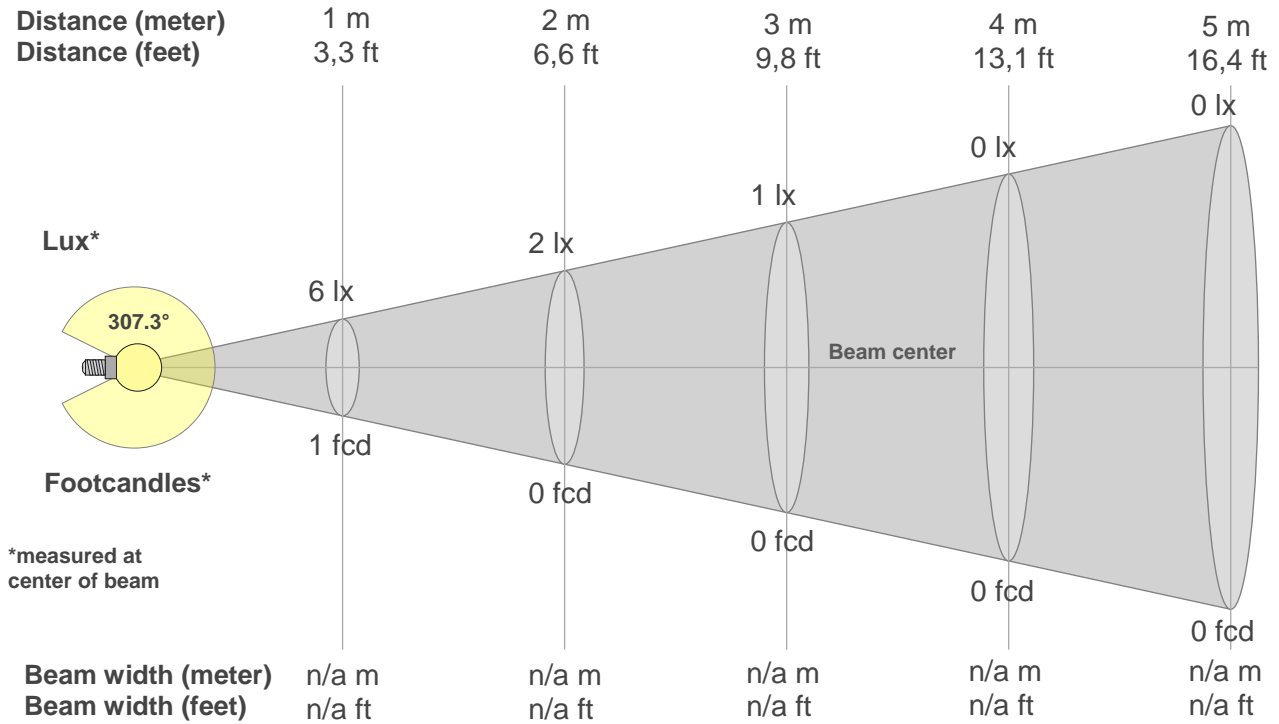
Rf 91.5
Fidelity index Rf

Rg 102.1
Gammut index Rg

| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 92 | -2% | -3% |
| 2 | 94 | -2% | 1% |
| 3 | 91 | -1% | 4% |
| 4 | 90 | 2% | 5% |
| 5 | 92 | 4% | 4% |
| 6 | 91 | 5% | 1% |
| 7 | 89 | 4% | -5% |
| 8 | 94 | 1% | -4% |
| 9 | 93 | -2% | -4% |
| 10 | 91 | -4% | 0% |
| 11 | 89 | -2% | 6% |
| 12 | 91 | 3% | 3% |
| 13 | 94 | 4% | 1% |
| 14 | 92 | 5% | -3% |
| 15 | 90 | 3% | -5% |
| 16 | 90 | 1% | -7% |



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 |
| 6lx | 2lx | 1lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx |
| 0.6fcd | 0.1fcd | 0.1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |

Intensities in 0° c-plane

| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|
| 6.3 | 7.7 | 12.5 | 17.4 | 21.7 | 24.8 | 27.7 | 27.6 | 20.1 | 8.6 | 0.9 | 9.1 | 20.4 | 27.4 | 27.0 | 24.4 | 21.4 | 17.0 | 12.1 | 7.8 |
| 100% | 122% | 198% | 276% | 345% | 394% | 440% | 437% | 318% | 137% | 15% | 145% | 324% | 435% | 428% | 387% | 339% | 270% | 192% | 123% |

Intensities in 90° c-plane

| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|------|-------|-------|-------|------|------|-----|-----|-----|-----|-----|------|------|------|------|-------|-------|-------|------|
| 6 | 30 | 88 | 147 | 180 | 40 | 14 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 14 | 51 | 182 | 145 | 85 | 28 |
| 100% | 470% | 1401% | 2328% | 2850% | 643% | 219% | 38% | 10% | 11% | 11% | 11% | 11% | 43% | 223% | 803% | 2888% | 2294% | 1352% | 442% |

Intensities in 180° c-plane

| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|------|------|------|------|------|------|------|------|
| 6.3 | 7.6 | 11.6 | 15.3 | 18.8 | 20.7 | 22.9 | 22.2 | 15.3 | 6.1 | 0.7 | 5.4 | 15.2 | 22.2 | 23.1 | 21.1 | 18.5 | 15.4 | 11.5 | 7.8 |
| 100% | 121% | 184% | 242% | 298% | 329% | 363% | 353% | 243% | 98% | 10% | 86% | 241% | 353% | 367% | 335% | 294% | 244% | 183% | 124% |

Intensities in 270° c-plane

| 0° | 9° | 18° | 27° | 36° | 45° | 54° | 63° | 72° | 81° | 90° | 99° | 108° | 117° | 126° | 135° | 144° | 153° | 162° | 171° |
|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|
| 6 | 29 | 64 | 97 | 116 | 120 | 109 | 94 | 71 | 46 | 30 | 45 | 69 | 93 | 109 | 119 | 116 | 98 | 65 | 29 |
| 100% | 457% | 1010% | 1547% | 1844% | 1907% | 1737% | 1494% | 1120% | 737% | 475% | 721% | 1090% | 1473% | 1728% | 1892% | 1840% | 1560% | 1027% | 466% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 307.3° | 349° | 360° | 37.0% | 22.6% |