

Light efficiency:



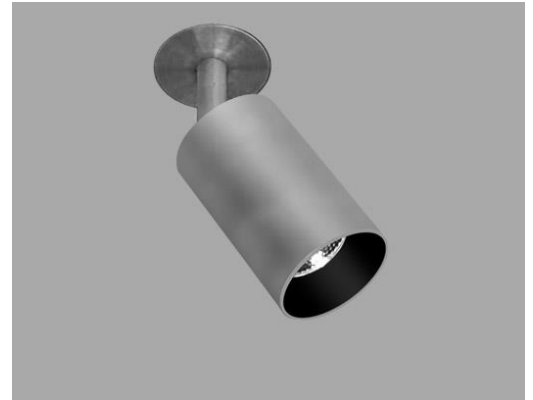
Output: 1307 lm

Light quality:

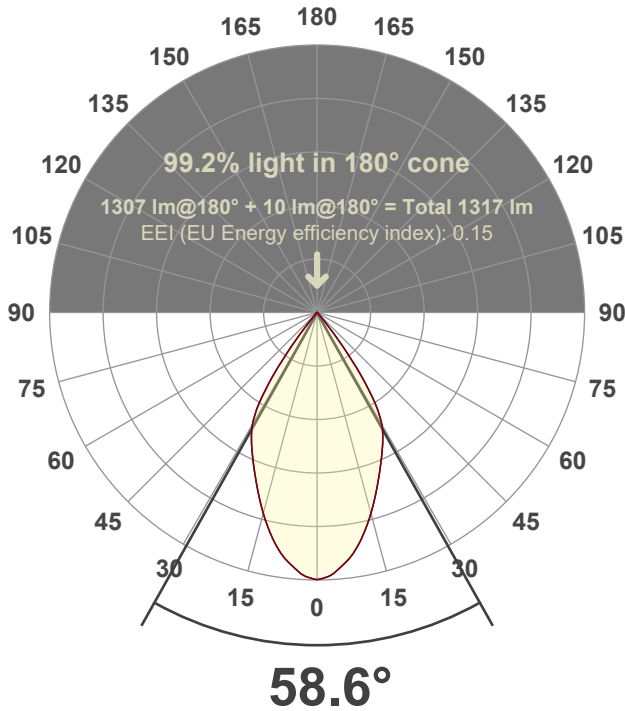


Peak: 1702 cd

Power: 14.1 W



Beam angle



Test number:

SCOM-RA-C14-30K-60°-Rev2A

Luminaire Model:

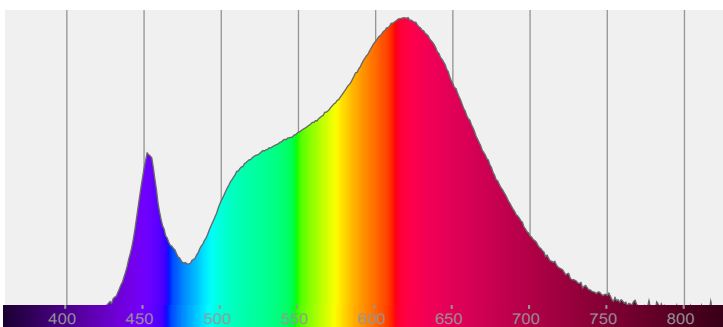
Scope Monopoint- C14-30k- 60°

Date and time:

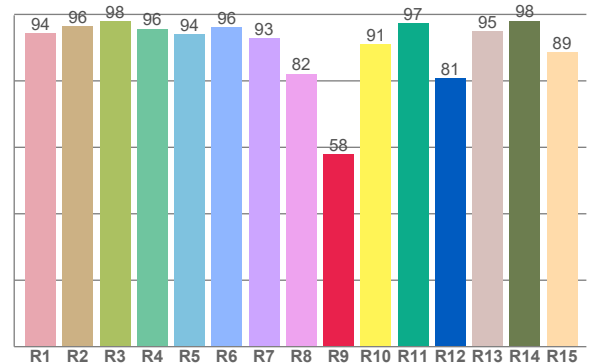
9/6/2022 4:58:14 PM

LUM: 1307

Spectra



CRI: 93.7 (R1-R8)



Color parameters

| | 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 |
|--|-----------------------|---------------|---------------------|---------------------|---------------------|---------------------------|---------------------------|------------------|------------------|---------------------------------|
| | CRI | CRI R9 | TM30 R _f | TM30 R _g | CQS | x | y | u | v | Δuv |
| | 93.7 | 57.9 | 92.4 | 99.5 | 91.9 | 0.439 | 0.408 | 0.250 | 0.349 | 0.0012 |

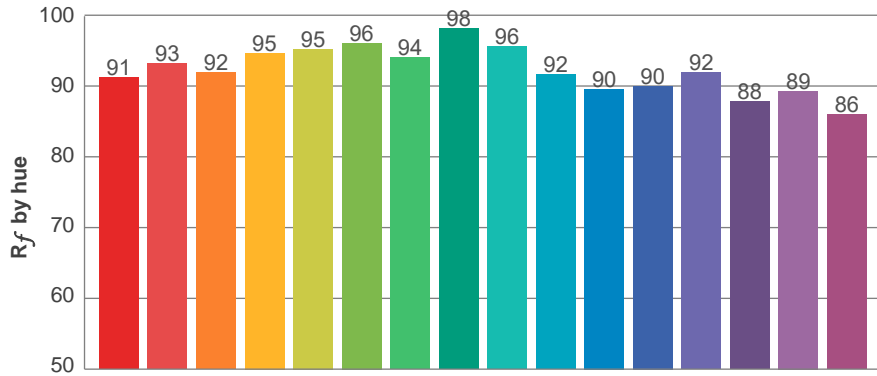
R_f 92.4

Fidelity index R_f

R_g 99.5

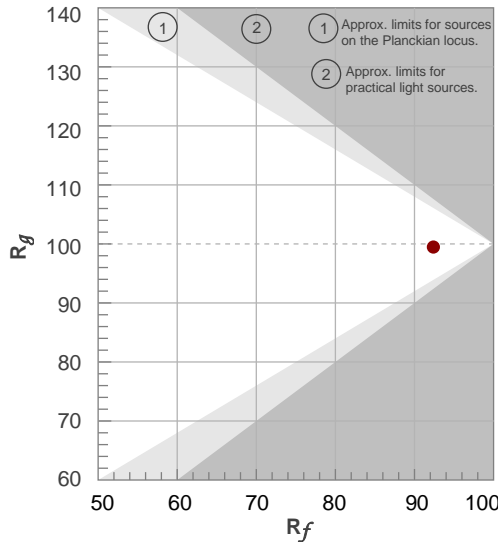
Gammut index R_g

TM30: 92.4

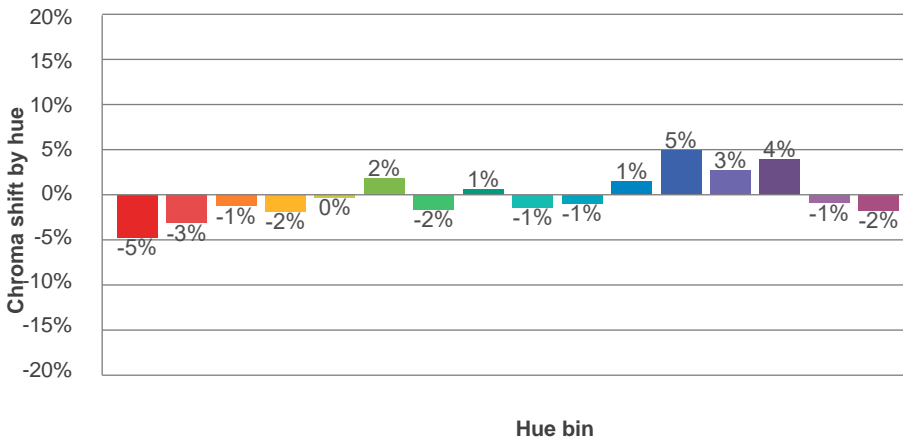
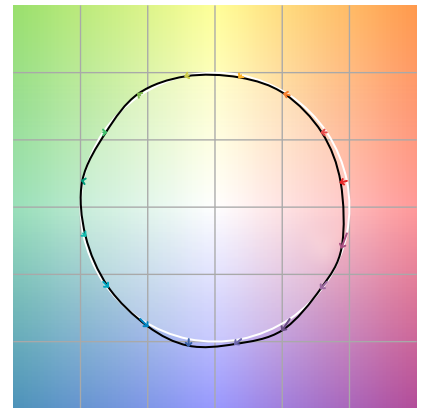


TM-30Color

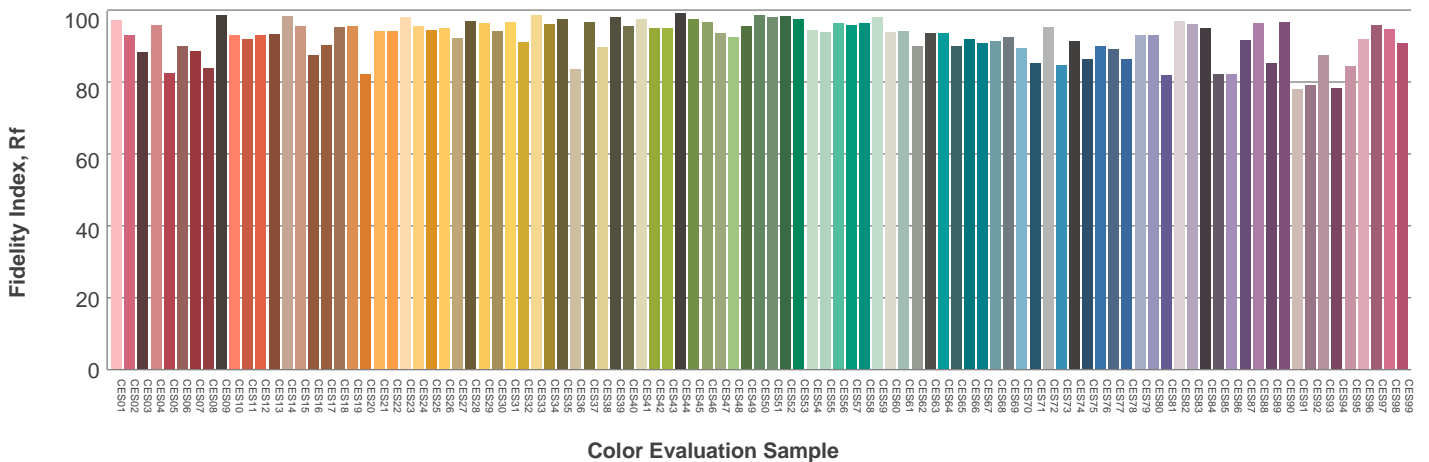
| Hue Bin | R _f | Graphic shifts (%) | |
|---------|----------------|--------------------|------|
| | | Chroma | Hue |
| 1 | 91 | -5% | 0% |
| 2 | 93 | -3% | 2% |
| 3 | 92 | -1% | 4% |
| 4 | 95 | -2% | 1% |
| 5 | 95 | 0% | 3% |
| 6 | 96 | 2% | 1% |
| 7 | 94 | -2% | -1% |
| 8 | 98 | 1% | 0% |
| 9 | 96 | -1% | 2% |
| 10 | 92 | -1% | 5% |
| 11 | 90 | 1% | 7% |
| 12 | 90 | 5% | 1% |
| 13 | 92 | 3% | -5% |
| 14 | 88 | 4% | -9% |
| 15 | 89 | -1% | -6% |
| 16 | 86 | -2% | -11% |



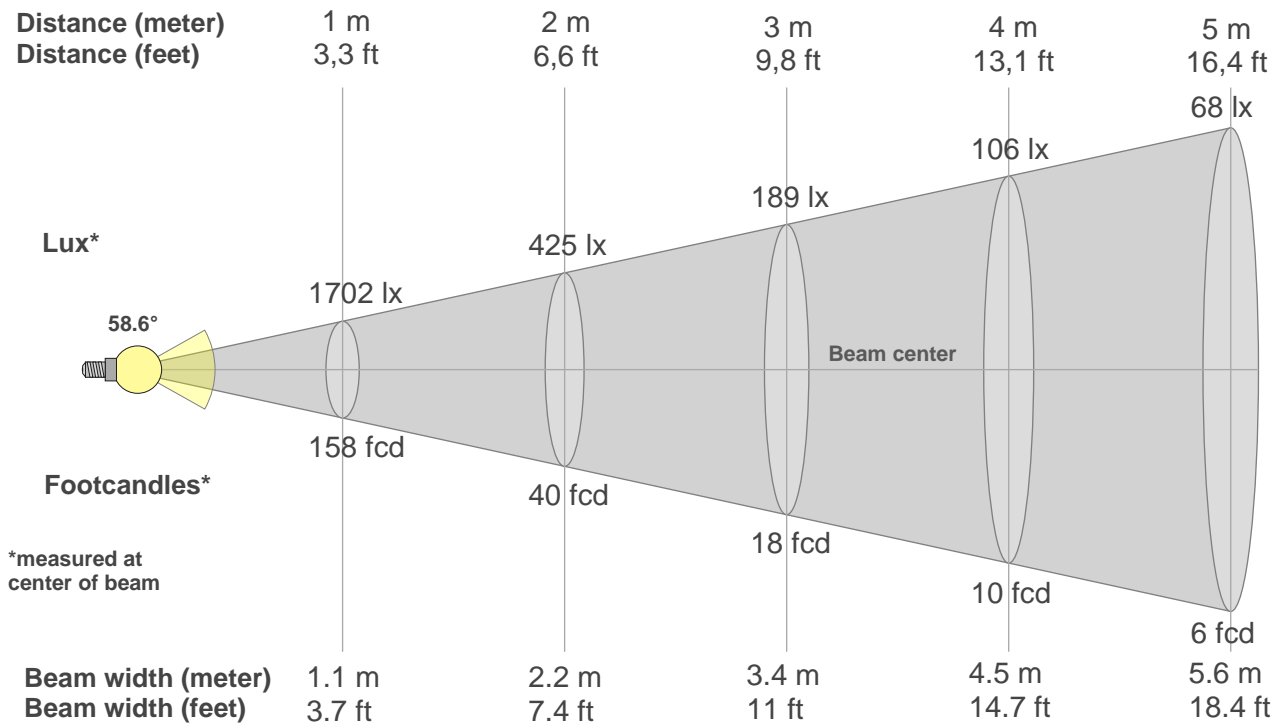
Color vector graphics



Color distortion



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 |
| 1702lx | 425lx | 189lx | 106lx | 68lx | 47lx | 35lx | 27lx | 21lx | 17lx | 14lx | 12lx | 10lx | 9lx | 8lx | 7lx | 6lx | 5lx | 5lx | 4lx |
| 158.1fcd | 39.5fcd | 17.6fcd | 9.9fcd | 6.3fcd | 4.4fcd | 3.2fcd | 2.5fcd | 2fcd | 1.6fcd | 1.3fcd | 1.1fcd | 0.9fcd | 0.8fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.5fcd | 0.4fcd | 0.4fcd |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 1702 | 1688 | 1659 | 1616 | 1570 | 1508 | 1439 | 1366 | 1291 | 1215 | 1143 | 1076 | 1014 | 954 | 894 | 828 | 726 | 580 | 408 | 237 |
| 100% | 99% | 97% | 95% | 92% | 89% | 85% | 80% | 76% | 71% | 67% | 63% | 60% | 56% | 53% | 49% | 43% | 34% | 24% | 14% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 1702 | 1688 | 1659 | 1616 | 1570 | 1508 | 1439 | 1366 | 1291 | 1215 | 1143 | 1076 | 1014 | 954 | 894 | 828 | 726 | 580 | 408 | 237 |
| 100% | 99% | 97% | 95% | 92% | 89% | 85% | 80% | 76% | 71% | 67% | 63% | 60% | 56% | 53% | 49% | 43% | 34% | 24% | 14% |

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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 1702 | 1688 | 1659 | 1616 | 1570 | 1508 | 1439 | 1366 | 1291 | 1215 | 1143 | 1076 | 1014 | 954 | 894 | 828 | 726 | 580 | 408 | 237 |
| 100% | 99% | 97% | 95% | 92% | 89% | 85% | 80% | 76% | 71% | 67% | 63% | 60% | 56% | 53% | 49% | 43% | 34% | 24% | 14% |

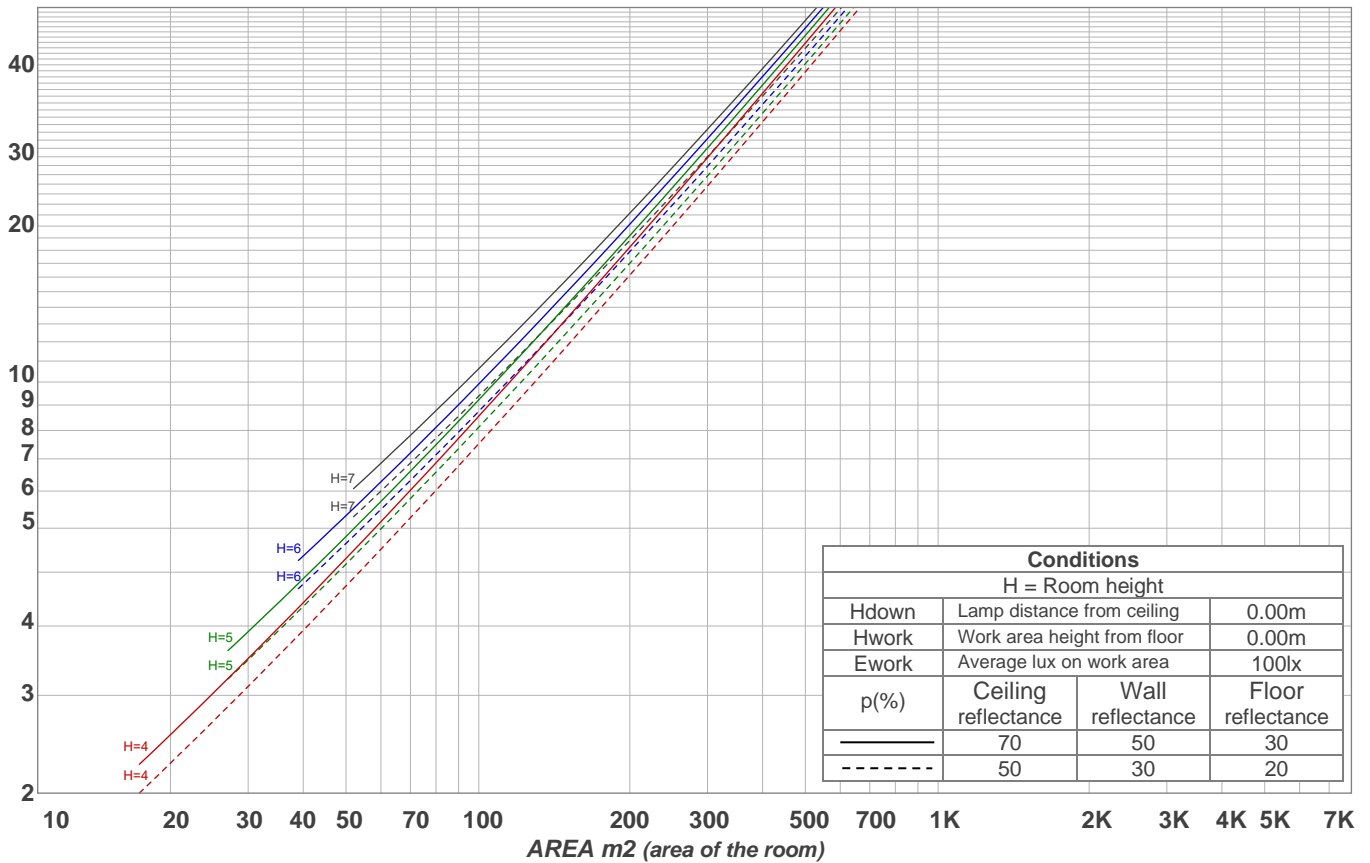
Intensities in 270° c-plane

| 0° | 2° | 4° | 6° | 8° | 10° | 12° | 14° | 16° | 18° | 20° | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
| 1702 | 1688 | 1659 | 1616 | 1570 | 1508 | 1439 | 1366 | 1291 | 1215 | 1143 | 1076 | 1014 | 954 | 894 | 828 | 726 | 580 | 408 | 237 |
| 100% | 99% | 97% | 95% | 92% | 89% | 85% | 80% | 76% | 71% | 67% | 63% | 60% | 56% | 53% | 49% | 43% | 34% | 24% | 14% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 58.6° | 78° | 85.8° | 99.5% | 98.6% |

LAMPS (number of lamps)
50

Light planning Luminaire budgetary diagram



Luminaire budgetary diagram AREA m² (area of the room) Coefficients of Utilization

| Ceiling reflectance | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 | | | |
|---------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| Wall reflectance | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| Floor reflectance | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 0 |
| RCR | (RCR: Room Cavity Ratio) | | | | | | | | | | | | | | | | | | | | |
| | Room Values are expressed as percentage of Lumens delivered to the task surface | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | |
| 1 | 114 | 111 | 109 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98 | 98 | 97 | 96 | 94 | 94 | 94 | |
| 2 | 108 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 99 | 96 | 93 | 96 | 93 | 91 | 93 | 91 | 89 | 88 | 88 | 88 | |
| 3 | 103 | 97 | 92 | 88 | 101 | 95 | 91 | 88 | 93 | 89 | 86 | 90 | 87 | 85 | 88 | 86 | 83 | 82 | 82 | 82 | |
| 4 | 98 | 91 | 85 | 81 | 96 | 90 | 85 | 81 | 88 | 83 | 80 | 86 | 82 | 79 | 84 | 81 | 78 | 77 | 77 | 77 | |
| 5 | 93 | 85 | 80 | 76 | 92 | 84 | 79 | 75 | 83 | 78 | 74 | 81 | 77 | 74 | 79 | 76 | 73 | 72 | 72 | 72 | |
| 6 | 89 | 80 | 74 | 70 | 87 | 79 | 74 | 70 | 78 | 73 | 70 | 77 | 72 | 69 | 75 | 72 | 69 | 67 | 67 | 67 | |
| 7 | 85 | 76 | 70 | 66 | 83 | 75 | 69 | 66 | 74 | 69 | 65 | 73 | 68 | 65 | 71 | 68 | 65 | 63 | 63 | 63 | |
| 8 | 81 | 71 | 66 | 62 | 79 | 71 | 65 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 68 | 64 | 61 | 59 | 59 | 59 | |
| 9 | 77 | 68 | 62 | 58 | 76 | 67 | 62 | 58 | 66 | 61 | 58 | 65 | 61 | 57 | 64 | 60 | 57 | 56 | 56 | 56 | |
| 10 | 73 | 64 | 58 | 55 | 72 | 64 | 58 | 55 | 63 | 58 | 54 | 62 | 57 | 54 | 61 | 57 | 54 | 53 | 53 | 53 | |

Zonal Lumen Summary

| 0°-10° | 10°-20° | 20°-30° | 30°-40° | 40°-50° | 50°-60° | 60°-70° | 70°-80° | 80°-90° |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 152 lm | 370 lm | 451 lm | 294 lm | 28.7 lm | 4.49 lm | 1.73 lm | 1.87 lm | 2.51 lm |
| 90°-100° | 100°-110° | 110°-120° | 120°-130° | 130°-140° | 140°-150° | 150°-160° | 160°-170° | 170°-180° |
| 0.000 lm | 0.000 lm | 0.000 lm | 0.000 lm | 0.000 lm | 0.000 lm | 0.000 lm | 0.000 lm | 0.000 lm |