

Light efficiency:



Output: 1107 lm

Light quality:

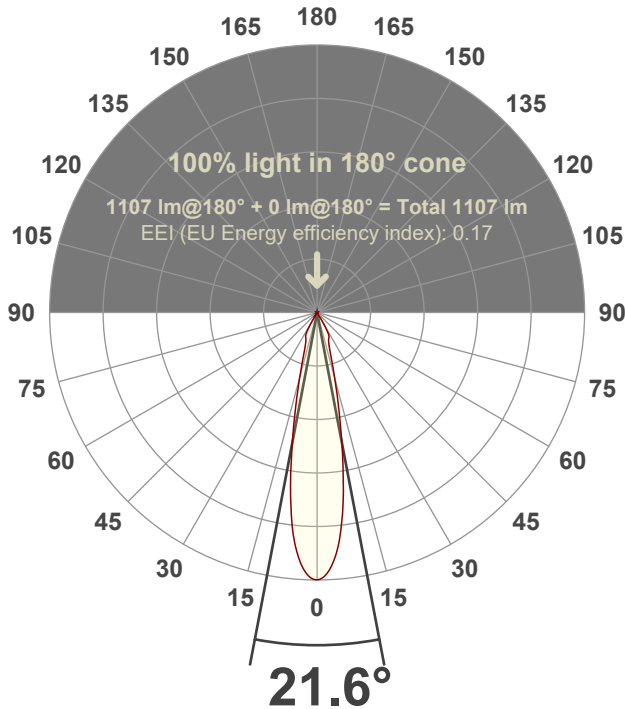


Peak: 5425 cd

Power: 13.8 W



Beam angle



Test number:

MSC-H-M-C14-30k-22°

Luminaire Model:

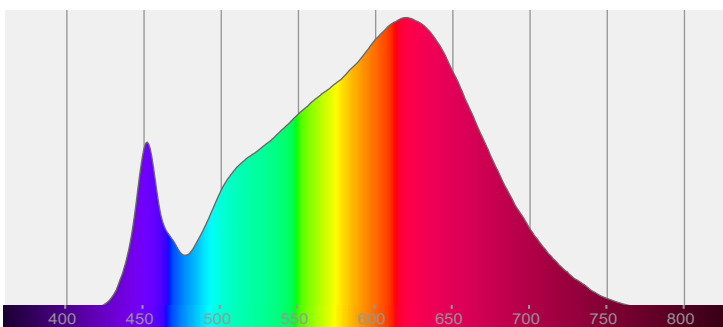
Mosaic Medium Accent Head-C14-30k-22°

Date and time:

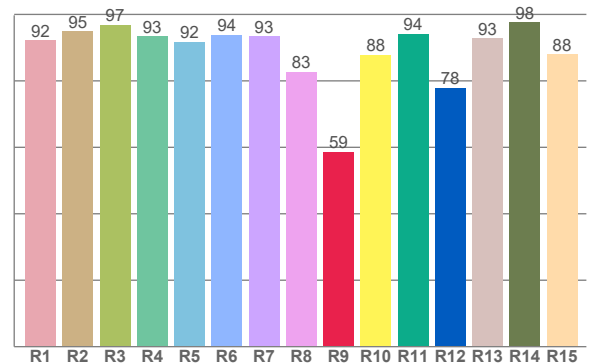
8/29/2022 5:43:38 PM

LUM: 1107

Spectra



CRI: 92.4 (R1-R8)



Color parameters

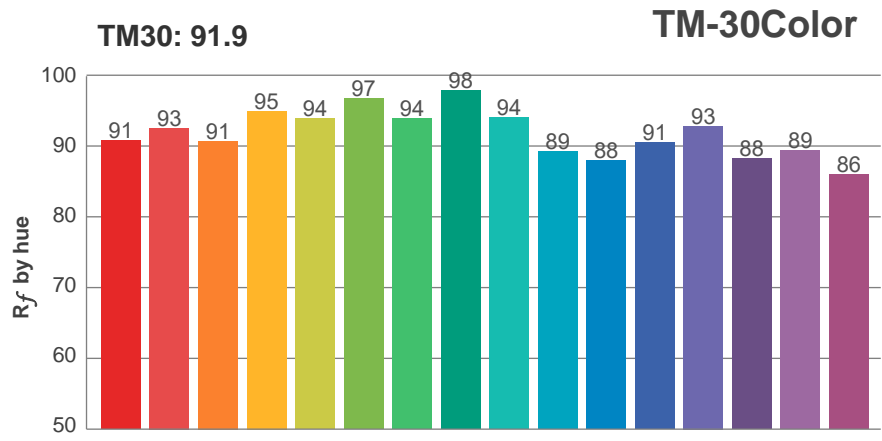
| | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Color coordinate cie 1931 | Color coordinate cie 1931 | Color coordinate | Color coordinate | Color divition from black body |
|--|-----------------------|---------------|---------------------|---------------------|---------------------|---------------------------|---------------------------|------------------|------------------|--------------------------------|
| | CRI | CRI R9 | TM30 R _f | TM30 R _g | CQS | x | y | u | v | Δuv |
| | 92.4 | 58.6 | 91.9 | 99.0 | 91.3 | 0.432 | 0.407 | 0.246 | 0.348 | 0.0017 |

R_f 91.9

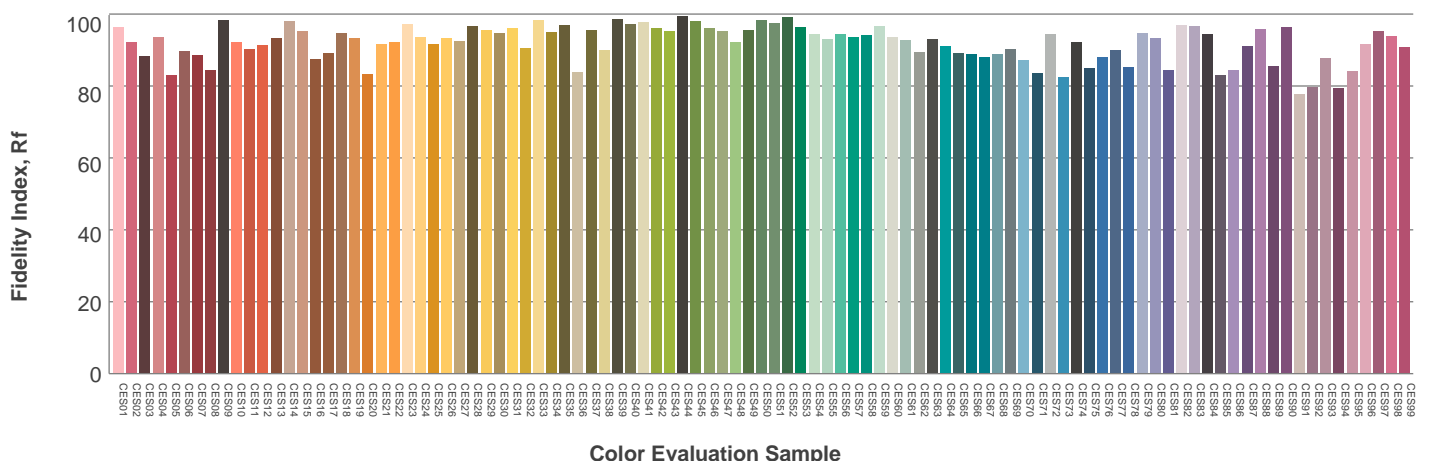
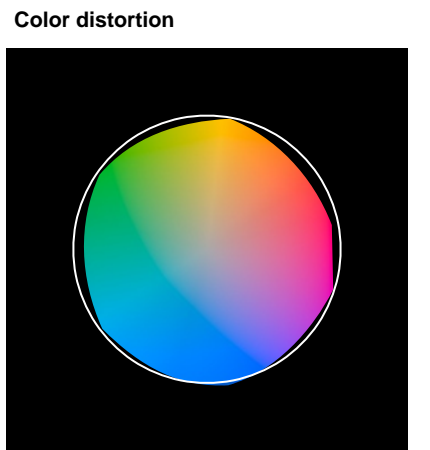
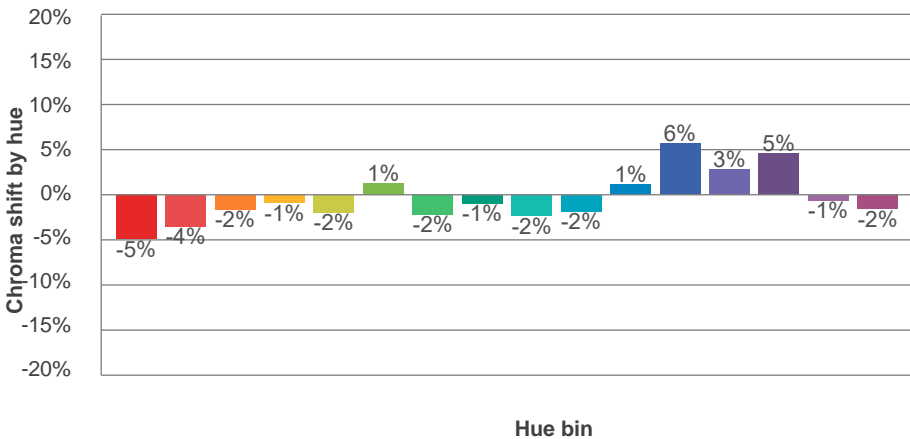
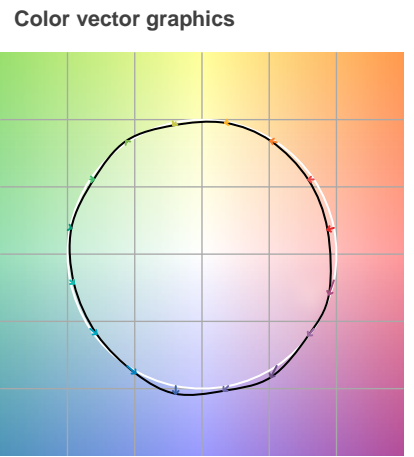
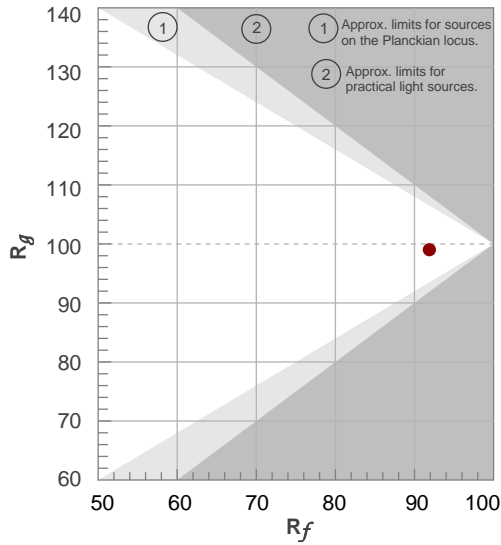
Fidelity index R_f

R_g 99.0

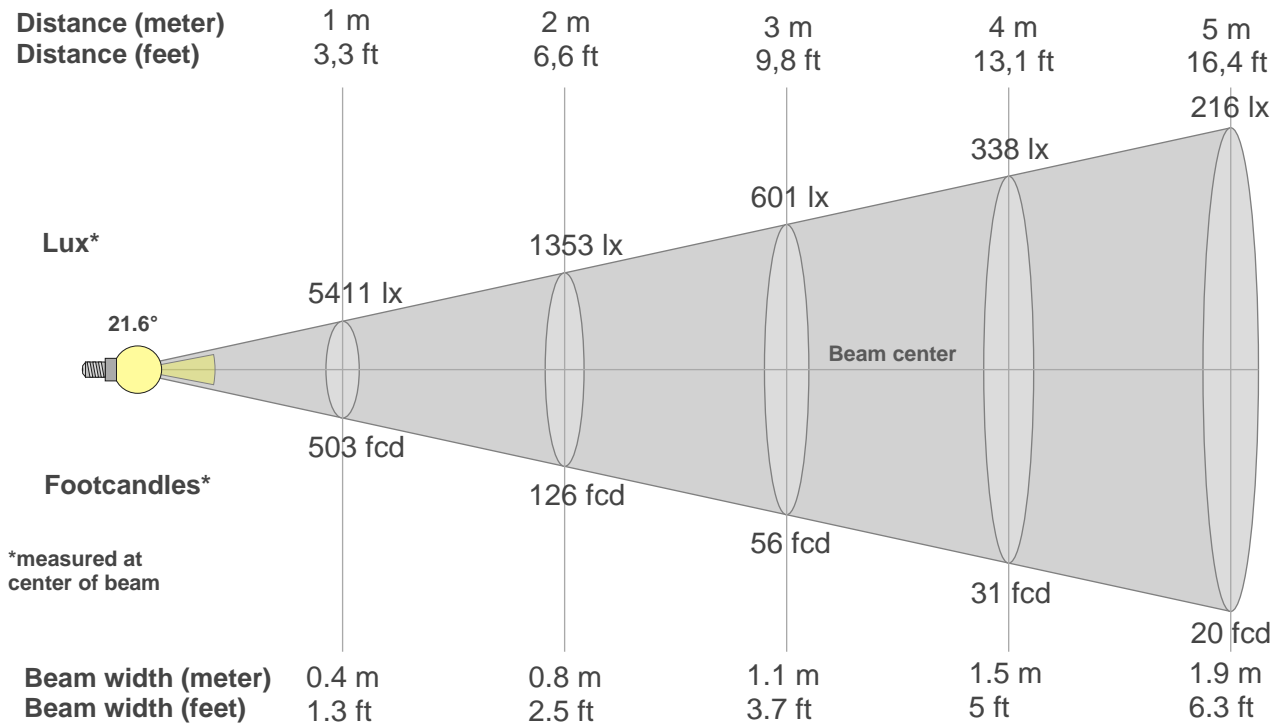
Gammut index R_g



| Hue Bin | R_f | Graphic shifts (%) | |
|---------|-------|--------------------|------|
| | | Chroma | Hue |
| 1 | 91 | -5% | 0% |
| 2 | 93 | -4% | 2% |
| 3 | 91 | -2% | 4% |
| 4 | 95 | -1% | 2% |
| 5 | 94 | -2% | 2% |
| 6 | 97 | 1% | 0% |
| 7 | 94 | -2% | -2% |
| 8 | 98 | -1% | 0% |
| 9 | 94 | -2% | 3% |
| 10 | 89 | -2% | 6% |
| 11 | 88 | 1% | 8% |
| 12 | 91 | 6% | 1% |
| 13 | 93 | 3% | -4% |
| 14 | 88 | 5% | -8% |
| 15 | 89 | -1% | -7% |
| 16 | 86 | -2% | -11% |



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 |
| 5411lx | 1353lx | 601lx | 338lx | 216lx | 150lx | 110lx | 85lx | 67lx | 54lx | 45lx | 38lx | 32lx | 28lx | 24lx | 21lx | 19lx | 17lx | 15lx | 14lx |
| 502.7fcd | 125.7fcd | 55.9fcd | 31.4fcd | 20.1fcd | 14fcd | 10.3fcd | 7.9fcd | 6.2fcd | 5fcd | 4.2fcd | 3.5fcd | 3fcd | 2.6fcd | 2.2fcd | 2fcd | 1.7fcd | 1.6fcd | 1.4fcd | 1.3fcd |

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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 5411 | 5299 | 5001 | 4511 | 3827 | 3011 | 2272 | 1672 | 1221 | 913 | 726 | 628 | 582 | 549 | 481 | 351 | 180 | 38 | 7 | 3 |
| 100% | 98% | 92% | 83% | 71% | 56% | 42% | 31% | 23% | 17% | 13% | 12% | 11% | 10% | 9% | 6% | 3% | 1% | 0% | 0% |

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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 5411 | 5299 | 5001 | 4511 | 3827 | 3011 | 2272 | 1672 | 1221 | 913 | 726 | 628 | 582 | 549 | 481 | 351 | 180 | 38 | 7 | 3 |
| 100% | 98% | 92% | 83% | 71% | 56% | 42% | 31% | 23% | 17% | 13% | 12% | 11% | 10% | 9% | 6% | 3% | 1% | 0% | 0% |

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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 5411 | 5336 | 5063 | 4565 | 3853 | 3045 | 2279 | 1651 | 1177 | 885 | 713 | 618 | 567 | 527 | 459 | 297 | 129 | 37 | 6 | 4 |
| 100% | 99% | 94% | 84% | 71% | 56% | 42% | 31% | 22% | 16% | 13% | 11% | 10% | 10% | 8% | 5% | 2% | 1% | 0% | 0% |

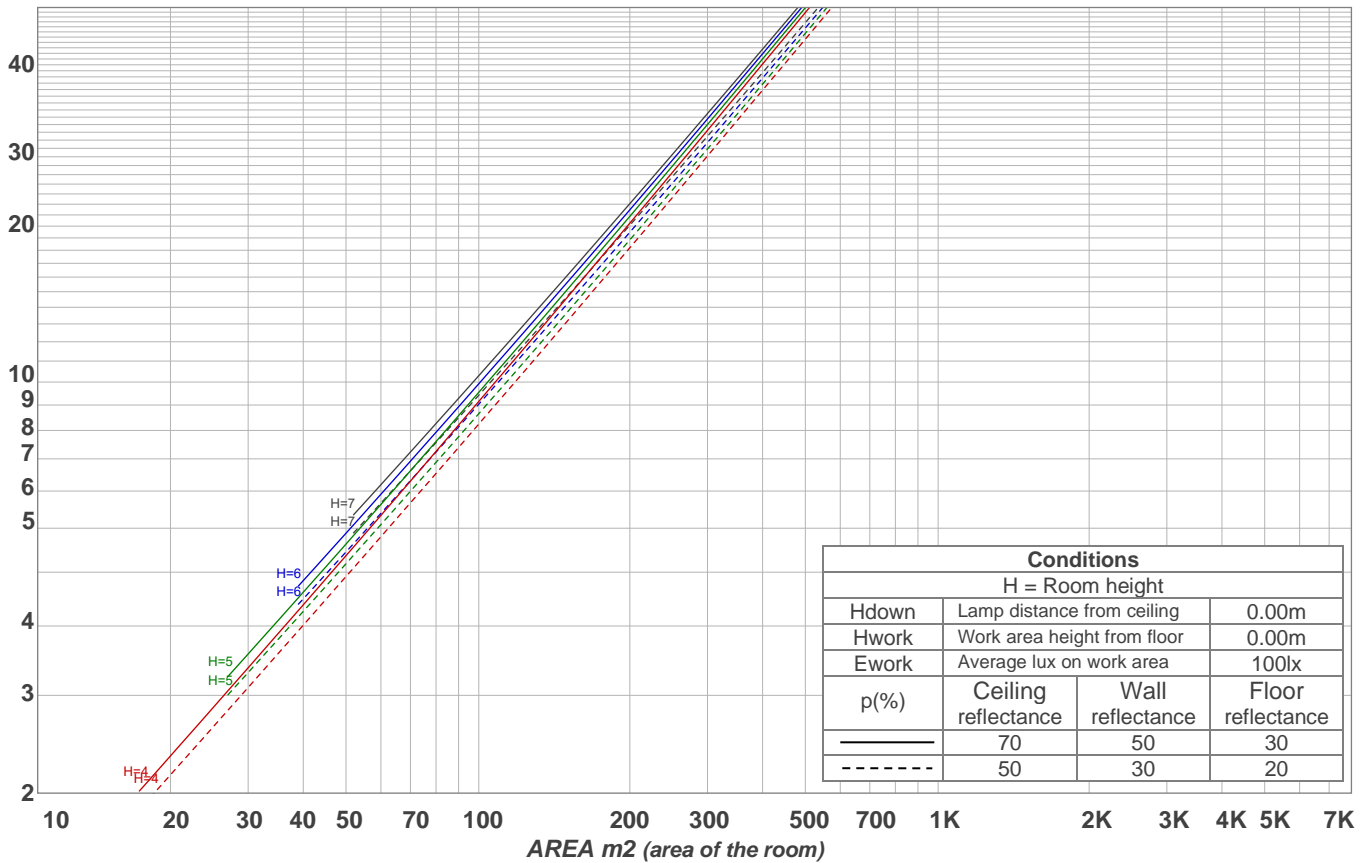
Intensities in 270° c-plane

| 0° | 2° | 4° | 6° | 8° | 10° | 12° | 14° | 16° | 18° | 20° | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 5411 | 5336 | 5063 | 4565 | 3853 | 3045 | 2279 | 1651 | 1177 | 885 | 713 | 618 | 567 | 527 | 459 | 297 | 129 | 37 | 6 | 4 |
| 100% | 99% | 94% | 84% | 71% | 56% | 42% | 31% | 22% | 16% | 13% | 11% | 10% | 10% | 8% | 5% | 2% | 1% | 0% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 21.6° | 51.9° | 64.5° | 99.4% | 99.2% |

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 | 115 | 113 | 111 | 109 | 112 | 111 | 109 | 107 | 107 | 105 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 98 | 96 | 96 | |
| 2 | 111 | 107 | 104 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | 100 | 98 | 96 | 97 | 96 | 94 | 94 | 93 | 91 | |
| 3 | 107 | 103 | 99 | 96 | 106 | 101 | 98 | 95 | 99 | 96 | 94 | 97 | 94 | 92 | 94 | 93 | 91 | 90 | 89 | 87 | |
| 4 | 104 | 98 | 94 | 91 | 102 | 97 | 94 | 91 | 95 | 92 | 90 | 94 | 91 | 89 | 92 | 90 | 88 | 87 | 85 | 84 | |
| 5 | 101 | 95 | 91 | 88 | 99 | 94 | 90 | 87 | 92 | 89 | 86 | 91 | 88 | 86 | 89 | 87 | 85 | 84 | 82 | 81 | |
| 6 | 98 | 91 | 87 | 84 | 97 | 91 | 87 | 84 | 89 | 86 | 83 | 88 | 85 | 83 | 87 | 84 | 82 | 81 | 79 | 78 | |
| 7 | 95 | 88 | 84 | 81 | 94 | 88 | 84 | 81 | 87 | 83 | 81 | 86 | 83 | 80 | 85 | 82 | 80 | 79 | 77 | 76 | |
| 8 | 92 | 86 | 81 | 79 | 91 | 85 | 81 | 78 | 84 | 81 | 78 | 83 | 80 | 78 | 83 | 80 | 78 | 77 | 75 | 74 | |
| 9 | 90 | 83 | 79 | 76 | 89 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 76 | 80 | 78 | 75 | 74 | 72 | 71 | |
| 10 | 87 | 81 | 77 | 74 | 87 | 80 | 76 | 74 | 80 | 76 | 74 | 79 | 76 | 73 | 78 | 75 | 73 | 72 | 70 | 69 | |

Zonal Lumen Summary

| | | | | | | | | |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0°-10° | 10°-20° | 20°-30° | 30°-40° | 40°-50° | 50°-60° | 60°-70° | 70°-80° | 80°-90° |
| 402 lm | 406 lm | 249 lm | 39.5 lm | 1.54 lm | 1.44 lm | 1.86 lm | 2.13 lm | 2.80 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 |