

Light efficiency:



Output: 920 lm

Light quality:

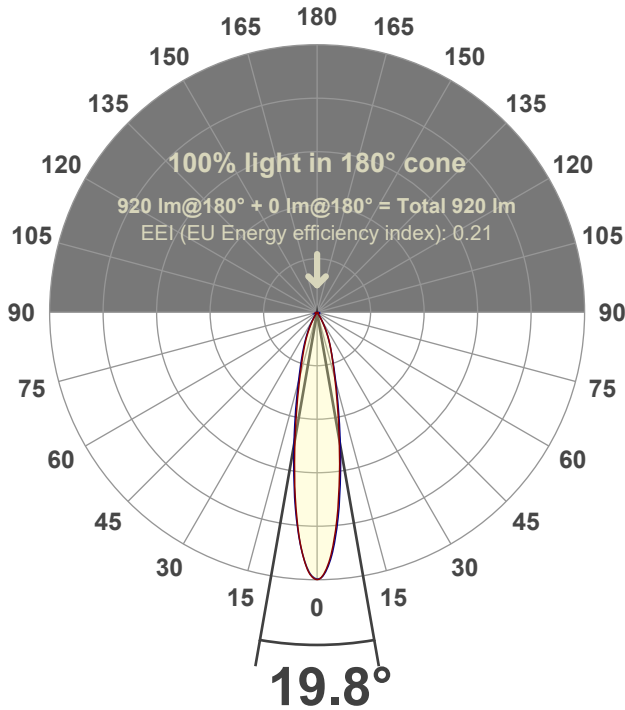


Peak: 4635 cd

Power: 15.0 W



Beam angle



Test number:

GR-F-A14-3022-SP-RD-91A-Rev2

Luminaire Model:

Graffiti Regress Round Fixed Downlight-A14-3022 15° Optic-Solite

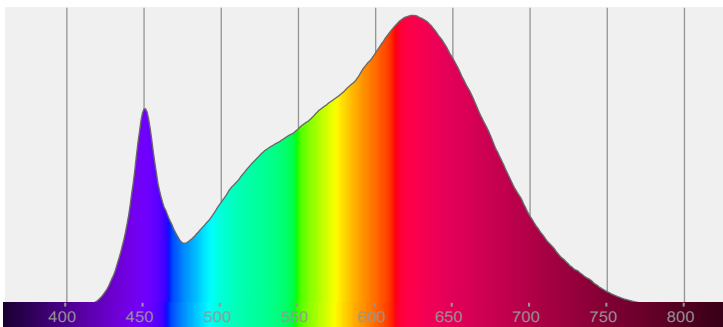
Date and time:

3/24/2022 4:04:59 PM

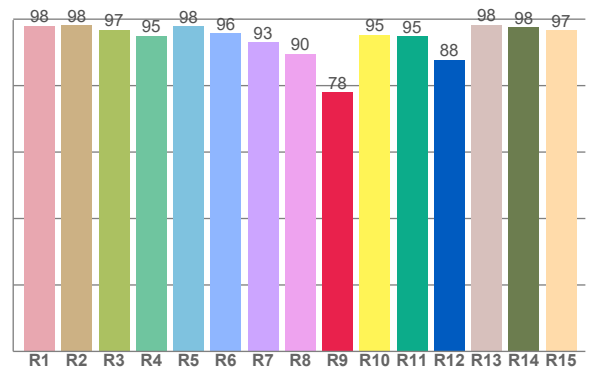
Delivered Lumens

920

Spectra



CRI: 95.5 (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 diviation from black body |
|-----------------------|---------------|---------------------|---------------------|---------------------|---------------------------|---------------------------|------------------|------------------|---------------------------------|
| CRI | CRI R9 | TM30 R _f | TM30 R _g | CQS | x | y | u | v | Δuv |
| 95.5 | 78.1 | 91.9 | 103.8 | 90.8 | 0.422 | 0.383 | 0.250 | 0.340 | -0.0065 |

R_f 91.9

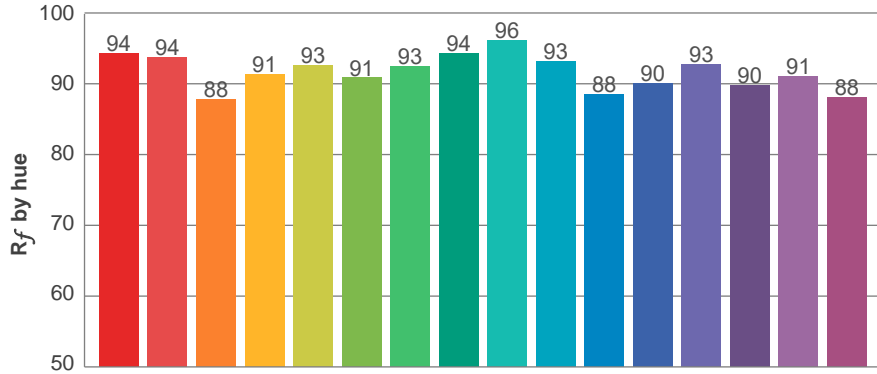
Fidelity index R_f

R_g 103.8

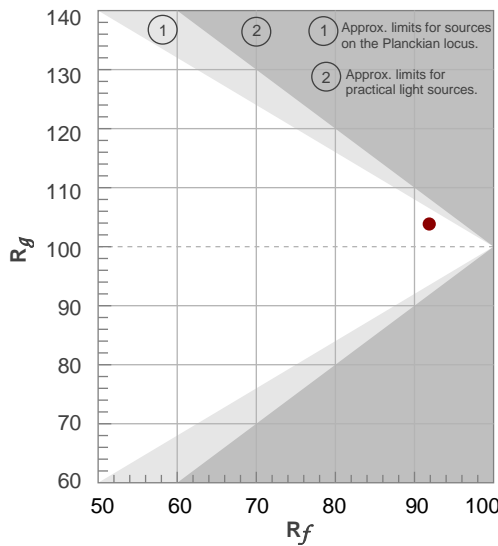
Gammut index R_g

TM30: 91.9

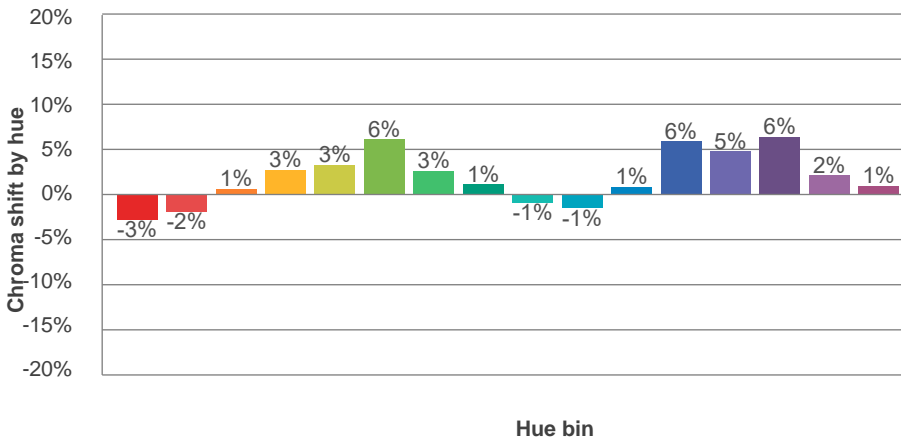
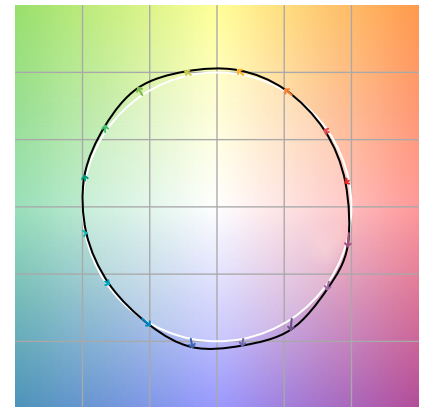
TM-30Color



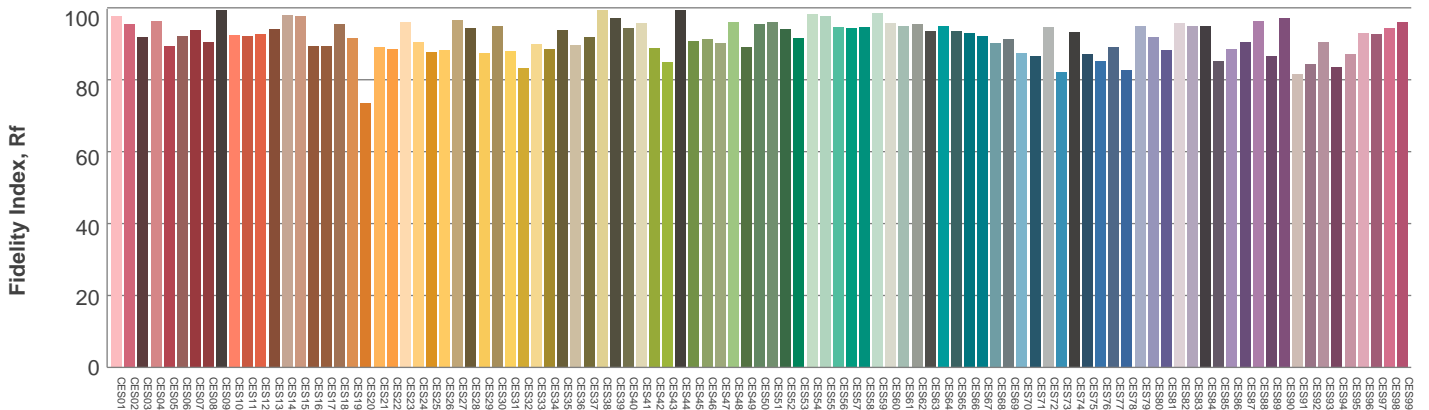
| Hue Bin | R_f | Graphic shifts (%) | |
|---------|-------|--------------------|------|
| | | Chroma | Hue |
| 1 | 94 | -3% | -1% |
| 2 | 94 | -2% | 3% |
| 3 | 88 | 1% | 6% |
| 4 | 91 | 3% | 5% |
| 5 | 93 | 3% | 3% |
| 6 | 91 | 6% | 0% |
| 7 | 93 | 3% | -4% |
| 8 | 94 | 1% | -3% |
| 9 | 96 | -1% | 0%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



Color vector graphics

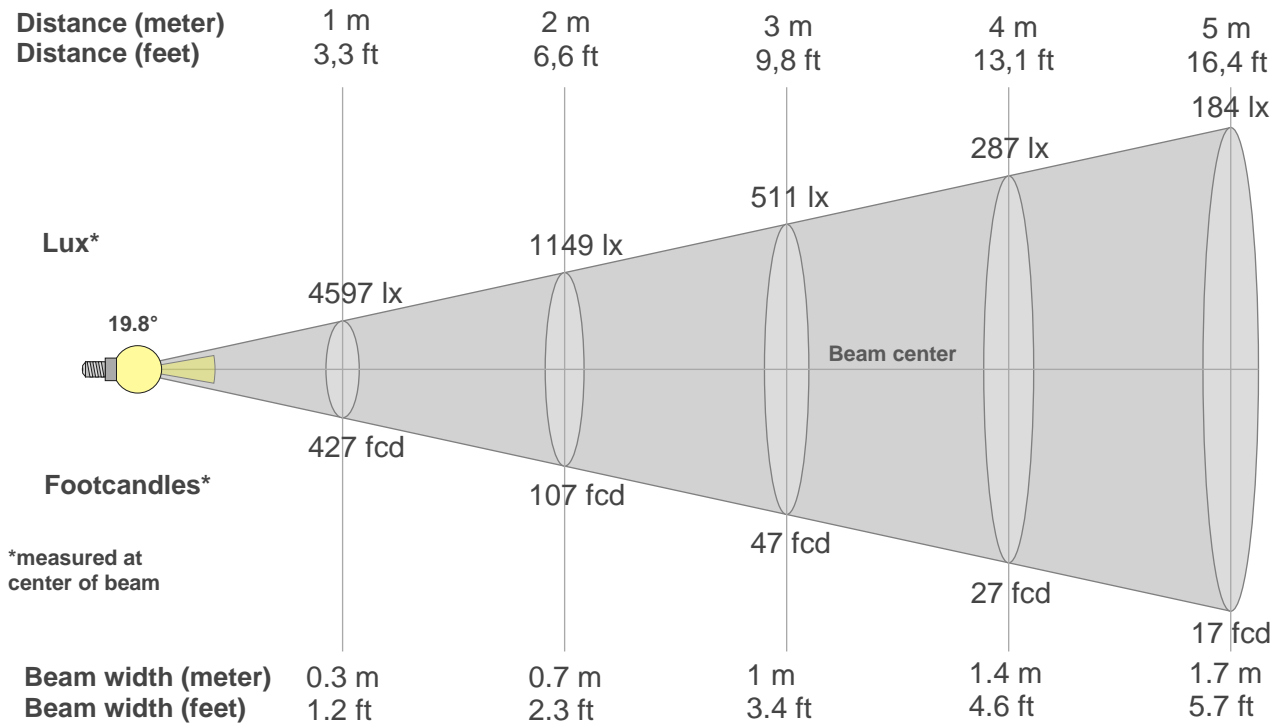


Color distortion



Color Evaluation Sample

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 |
| 4597lx | 1149lx | 511lx | 287lx | 184lx | 128lx | 94lx | 72lx | 57lx | 46lx | 38lx | 32lx | 27lx | 23lx | 20lx | 18lx | 16lx | 14lx | 13lx | 11lx |
| 427.1fcd | 106.8fcd | 47.5fcd | 26.7fcd | 17.1fcd | 11.9fcd | 8.7fcd | 6.7fcd | 5.3fcd | 4.3fcd | 3.5fcd | 3fcd | 2.5fcd | 2.2fcd | 1.9fcd | 1.7fcd | 1.5fcd | 1.3fcd | 1.2fcd | 1.1fcd |

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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4597 | 4431 | 4018 | 3448 | 2812 | 2224 | 1749 | 1372 | 1085 | 874 | 719 | 595 | 481 | 373 | 275 | 192 | 129 | 86 | 57 | 39 |
| 100% | 96% | 87% | 75% | 61% | 48% | 38% | 30% | 24% | 19% | 16% | 13% | 10% | 8% | 6% | 4% | 3% | 2% | 1% | 1% |

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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4597 | 4455 | 4085 | 3542 | 2918 | 2340 | 1844 | 1440 | 1127 | 892 | 723 | 582 | 461 | 354 | 261 | 183 | 126 | 86 | 59 | 41 |
| 100% | 97% | 89% | 77% | 63% | 51% | 40% | 31% | 25% | 19% | 16% | 13% | 10% | 8% | 6% | 4% | 3% | 2% | 1% | 1% |

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° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4597 | 4491 | 4059 | 3470 | 2835 | 2232 | 1716 | 1317 | 1038 | 832 | 672 | 540 | 422 | 316 | 227 | 154 | 100 | 64 | 41 | 29 |
| 100% | 98% | 88% | 75% | 62% | 49% | 37% | 29% | 23% | 18% | 15% | 12% | 9% | 7% | 5% | 3% | 2% | 1% | 1% | 1% |

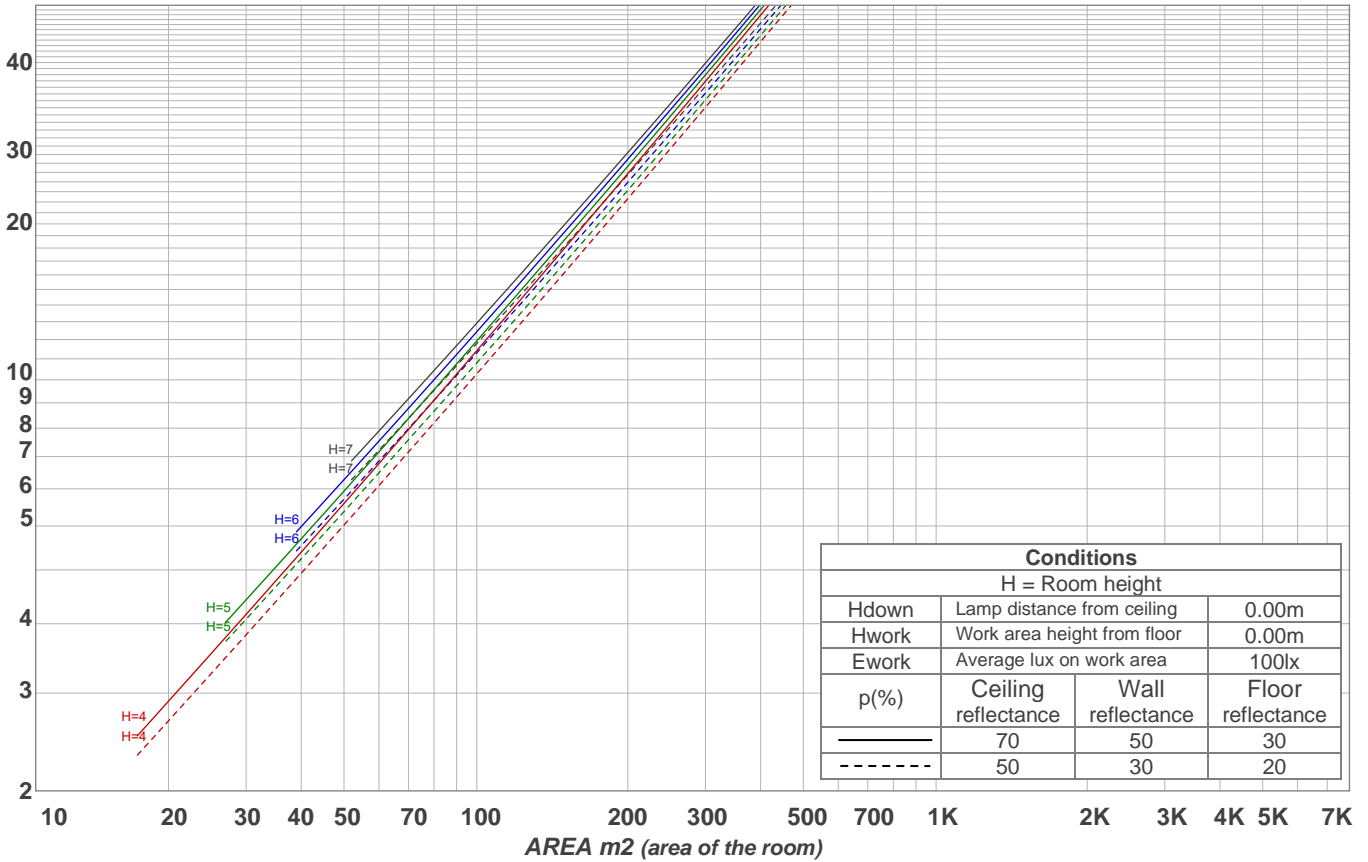
Intensities in 270° c-plane

| 0° | 2° | 4° | 6° | 8° | 10° | 12° | 14° | 16° | 18° | 20° | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° |
|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4597 | 4455 | 4078 | 3520 | 2911 | 2338 | 1841 | 1433 | 1123 | 907 | 735 | 593 | 471 | 362 | 267 | 189 | 130 | 88 | 60 | 41 |
| 100% | 97% | 89% | 77% | 63% | 51% | 40% | 31% | 24% | 20% | 16% | 13% | 10% | 8% | 6% | 4% | 3% | 2% | 1% | 1% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 19.8° | 47.9° | 64.4° | 98.9% | 97.8% |

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 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 103 | 103 | 101 | 100 | 99 | 98 | 97 | 96 | 96 | 96 | |
| 2 | 111 | 107 | 103 | 101 | 108 | 105 | 102 | 100 | 102 | 99 | 97 | 99 | 97 | 95 | 96 | 95 | 93 | 92 | 92 | 92 | |
| 3 | 107 | 102 | 98 | 95 | 105 | 100 | 97 | 94 | 98 | 95 | 93 | 96 | 93 | 91 | 93 | 91 | 90 | 88 | 88 | 88 | |
| 4 | 103 | 97 | 93 | 90 | 102 | 96 | 92 | 89 | 94 | 91 | 88 | 92 | 90 | 87 | 91 | 88 | 86 | 85 | 85 | 85 | |
| 5 | 100 | 94 | 89 | 86 | 98 | 93 | 89 | 86 | 91 | 88 | 85 | 89 | 86 | 84 | 88 | 85 | 83 | 82 | 82 | 82 | |
| 6 | 97 | 90 | 86 | 82 | 95 | 89 | 85 | 82 | 88 | 84 | 82 | 87 | 84 | 81 | 86 | 83 | 81 | 79 | 79 | 79 | |
| 7 | 94 | 87 | 82 | 79 | 93 | 86 | 82 | 79 | 85 | 81 | 79 | 84 | 81 | 78 | 83 | 80 | 78 | 77 | 77 | 77 | |
| 8 | 91 | 84 | 80 | 77 | 90 | 83 | 79 | 76 | 83 | 79 | 76 | 82 | 78 | 76 | 81 | 78 | 76 | 75 | 75 | 75 | |
| 9 | 88 | 81 | 77 | 74 | 87 | 81 | 77 | 74 | 80 | 76 | 74 | 79 | 76 | 74 | 79 | 76 | 73 | 72 | 72 | 72 | |
| 10 | 86 | 79 | 75 | 72 | 85 | 78 | 74 | 72 | 78 | 74 | 72 | 77 | 74 | 71 | 77 | 73 | 71 | 70 | 70 | 70 | |

Zonal Lumen Summary

| 0°-10° | 10°-20° | 20°-30° | 30°-40° | 40°-50° | 50°-60° | 60°-70° | 70°-80° | 80°-90° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 311 lm | 350 lm | 185 lm | 46.9 lm | 11.3 lm | 5.76 lm | 4.06 lm | 2.91 lm | 3.28 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 |

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