

Light efficiency:



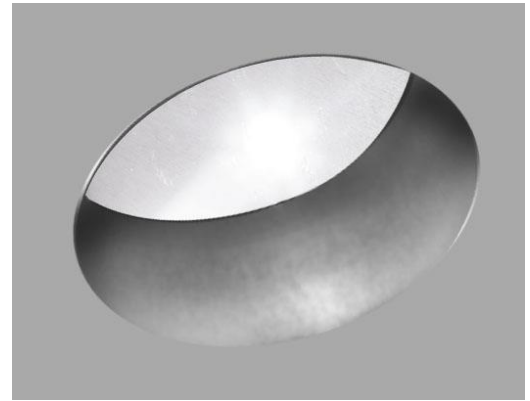
Output: 515 lm

Light quality:

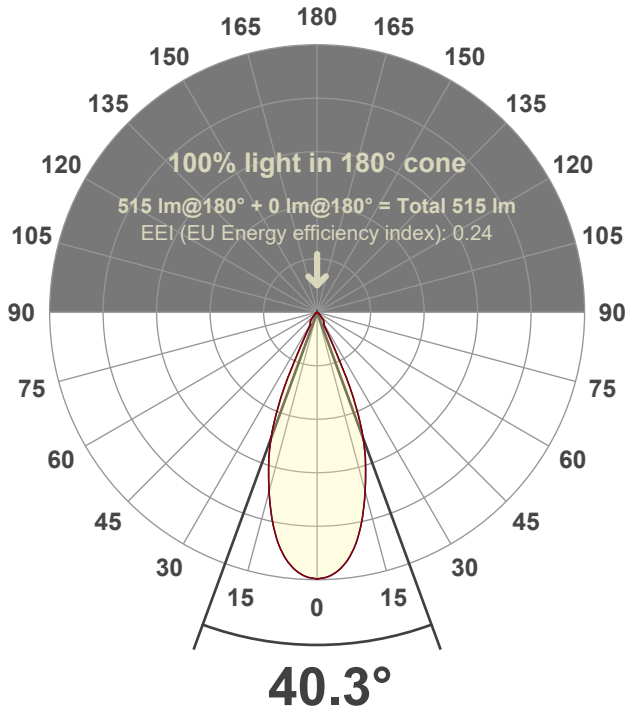


Peak: 1161 cd

Power: 10.2 W



Beam angle



Test number:

RV3D-RA-A9-AD3019-40°-Rev2A

Luminaire Model:

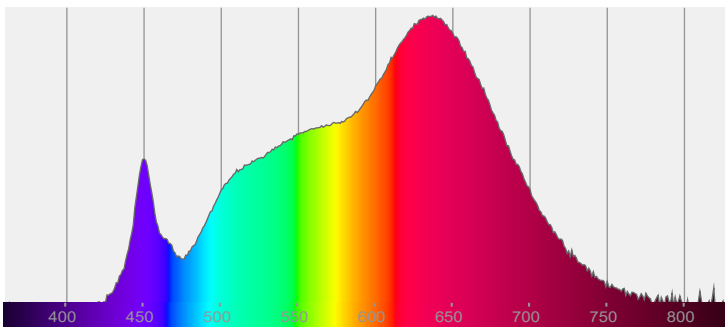
Rivet 3" Round Adjustable Downlight-A9-Ambient Dim 3000k to1900k-40°

Date and time:

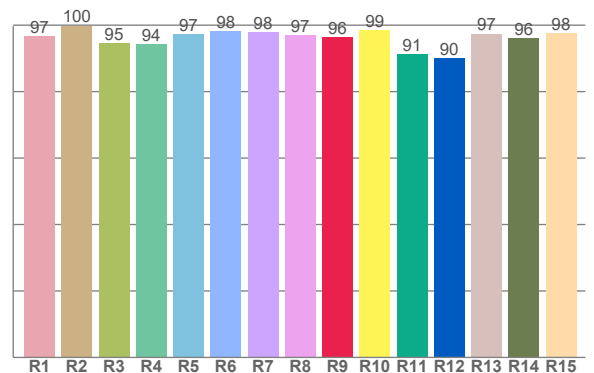
1/16/2023 3:45:02 PM

LUM: 515

Spectra



CRI: 97.0 (R1-R8)

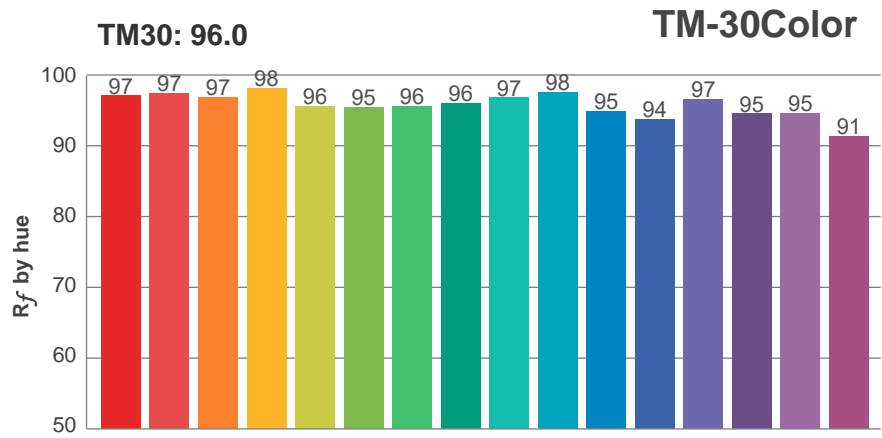


Color parameters

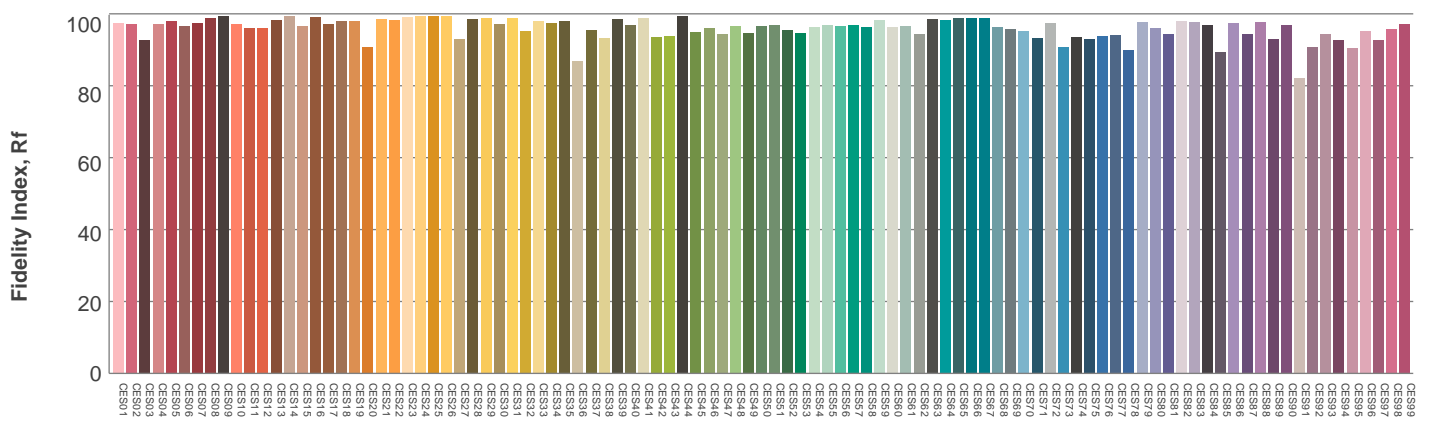
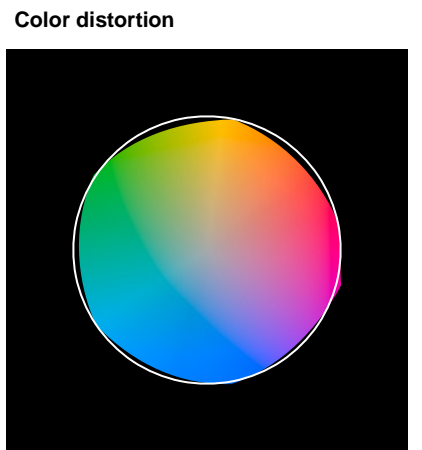
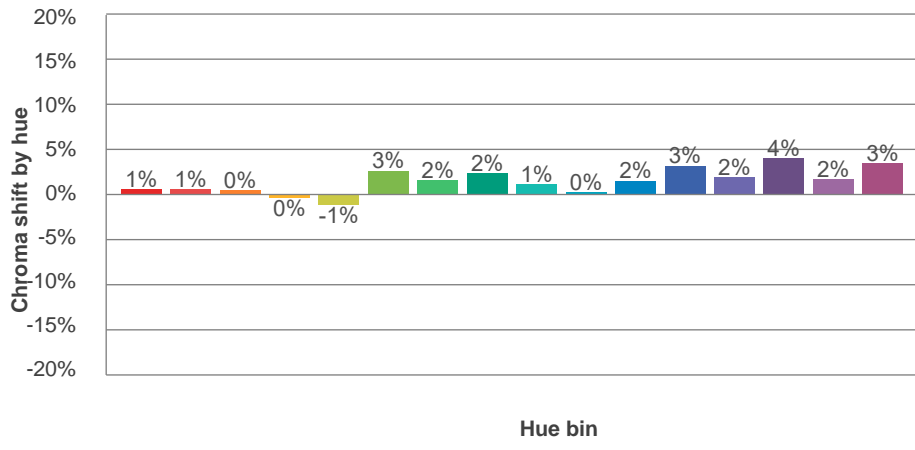
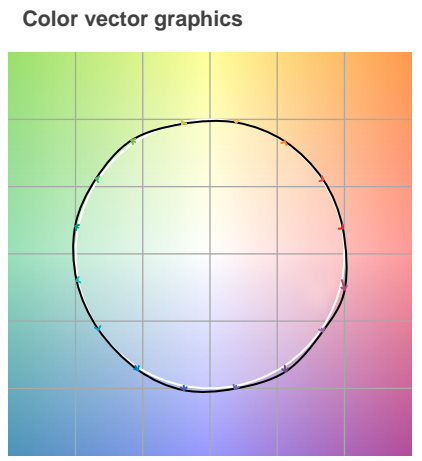
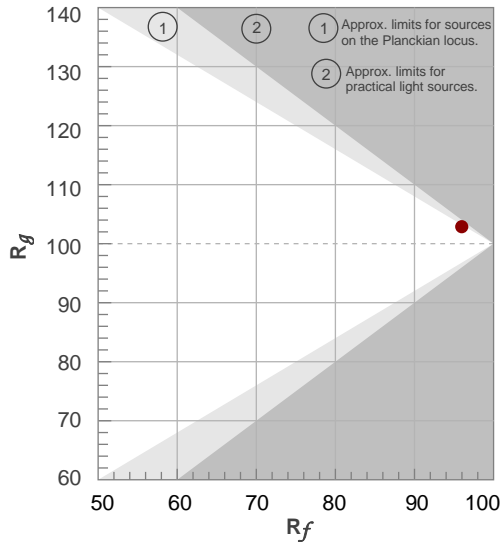
| Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Color coordinate cie 1931 | Color coordinate cie 1931 | Color coordinate | Color coordinate | Color divition from black body |
|-----------------------|---------------|---------------------|---------------------|---------------------|---------------------------|---------------------------|------------------|------------------|--------------------------------|
| CRI | CRI R9 | TM30 R _f | TM30 R _g | CQS | x | y | u | v | Δuv |
| 97.0 | 96.3 | 96.0 | 102.9 | 95.9 | 0.434 | 0.403 | 0.249 | 0.347 | 0.0002 |

R_f 96.0
Fidelity index R_f

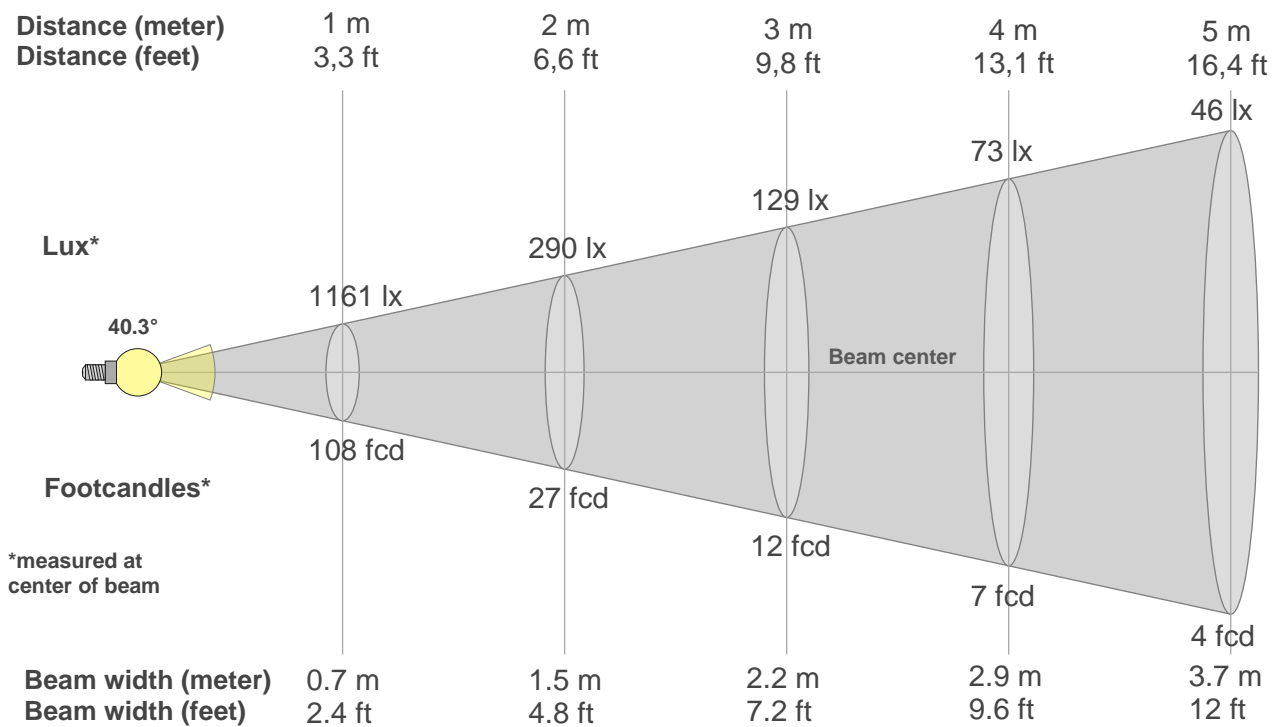
R_g 102.9
Gammut index R_g



| Hue Bin | R_f | Graphic shifts (%) | |
|---------|-------|--------------------|-----|
| | | Chroma | Hue |
| 1 | 97 | 1% | -1% |
| 2 | 97 | 1% | -1% |
| 3 | 97 | 0% | 0% |
| 4 | 98 | 0% | 0% |
| 5 | 96 | -1% | 2% |
| 6 | 95 | 3% | 2% |
| 7 | 96 | 2% | 1% |
| 8 | 96 | 2% | -1% |
| 9 | 97 | 1% | 0% |
| 10 | 98 | 0% | 1% |
| 11 | 95 | 2% | 3% |
| 12 | 94 | 3% | 1% |
| 13 | 97 | 2% | -1% |
| 14 | 95 | 4% | -2% |
| 15 | 95 | 2% | -1% |
| 16 | 91 | 3% | -6% |



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 |
| 1161lx | 290lx | 129lx | 73lx | 46lx | 32lx | 24lx | 18lx | 14lx | 12lx | 10lx | 8lx | 7lx | 6lx | 5lx | 5lx | 4lx | 4lx | 3lx | 3lx |
| 107.8fcd | 27fcd | 12fcd | 6.7fcd | 4.3fcd | 3fcd | 2.2fcd | 1.7fcd | 1.3fcd | 1.1fcd | 0.9fcd | 0.7fcd | 0.6fcd | 0.6fcd | 0.5fcd | 0.4fcd | 0.4fcd | 0.3fcd | 0.3fcd | 0.3fcd |

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° |
|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1161 | 1153 | 1135 | 1105 | 1062 | 1005 | 934 | 851 | 766 | 682 | 587 | 473 | 333 | 168 | 85 | 61 | 56 | 53 | 50 | 47 |
| 100% | 99% | 98% | 95% | 91% | 87% | 80% | 73% | 66% | 59% | 51% | 41% | 29% | 14% | 7% | 5% | 5% | 5% | 4% | 4% |

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° |
|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1161 | 1153 | 1135 | 1105 | 1062 | 1005 | 934 | 851 | 766 | 682 | 587 | 473 | 333 | 168 | 85 | 61 | 56 | 53 | 50 | 47 |
| 100% | 99% | 98% | 95% | 91% | 87% | 80% | 73% | 66% | 59% | 51% | 41% | 29% | 14% | 7% | 5% | 5% | 5% | 4% | 4% |

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° |
|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1161 | 1153 | 1135 | 1105 | 1062 | 1005 | 934 | 851 | 766 | 682 | 587 | 473 | 333 | 168 | 85 | 61 | 56 | 53 | 50 | 47 |
| 100% | 99% | 98% | 95% | 91% | 87% | 80% | 73% | 66% | 59% | 51% | 41% | 29% | 14% | 7% | 5% | 5% | 5% | 4% | 4% |

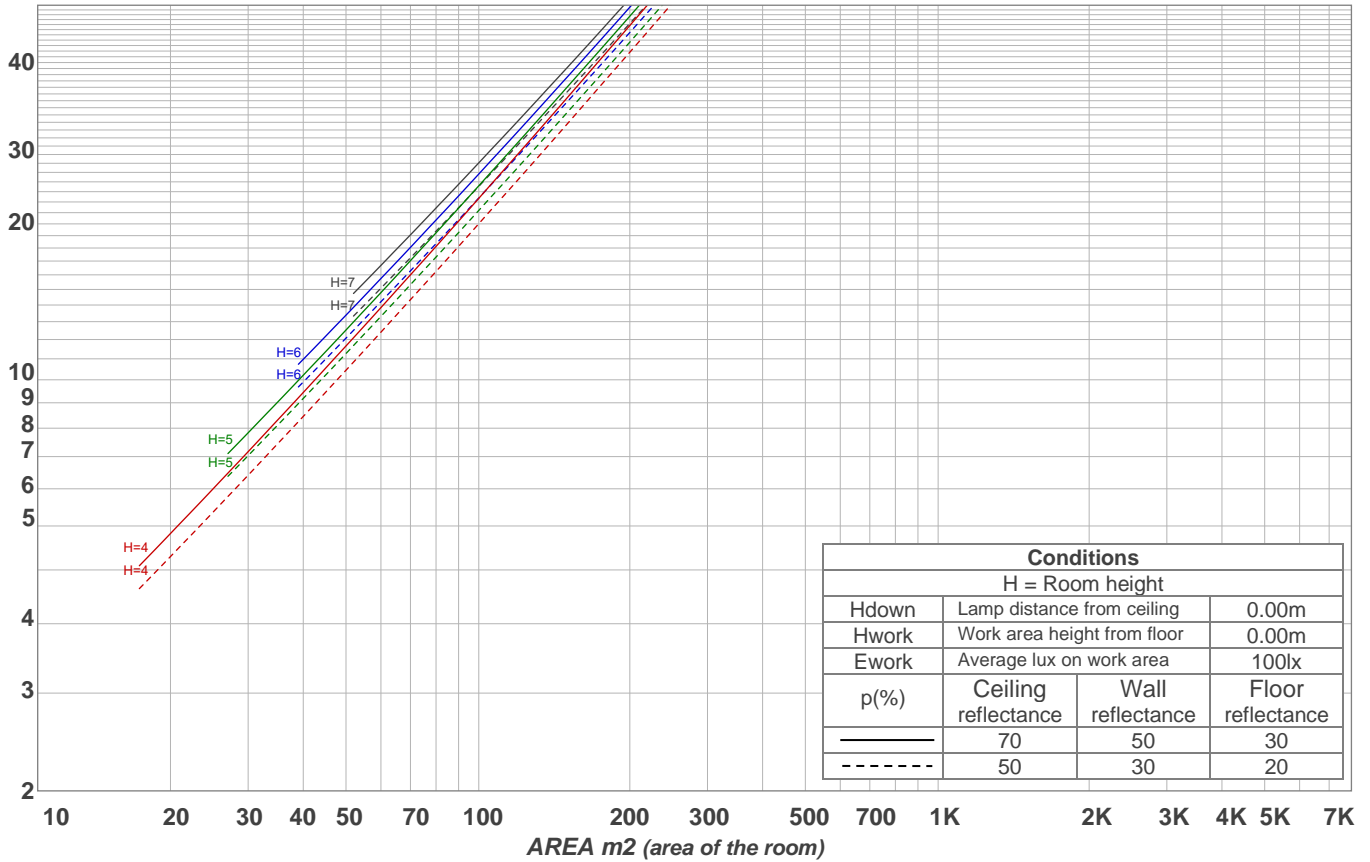
Intensities in 270° c-plane

| 0° | 2° | 4° | 6° | 8° | 10° | 12° | 14° | 16° | 18° | 20° | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° |
|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1161 | 1153 | 1135 | 1105 | 1062 | 1005 | 934 | 851 | 766 | 682 | 587 | 473 | 333 | 168 | 85 | 61 | 56 | 53 | 50 | 47 |
| 100% | 99% | 98% | 95% | 91% | 87% | 80% | 73% | 66% | 59% | 51% | 41% | 29% | 14% | 7% | 5% | 5% | 5% | 4% | 4% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 40.3° | 54.4° | 85.1° | 98.0% | 94.6% |

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 | 0 |
| Floor reflectance | 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 |
| 1 | 114 | 111 | 109 | 107 | 112 | 109 | 107 | 105 | 105 | 104 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | 97 | 95 | 93 | 94 | 92 | 91 | 89 |
| 3 | 105 | 99 | 94 | 91 | 103 | 98 | 93 | 90 | 95 | 92 | 89 | 93 | 90 | 87 | 90 | 88 | 86 | 85 |
| 4 | 100 | 94 | 89 | 85 | 99 | 93 | 88 | 85 | 91 | 87 | 84 | 89 | 85 | 83 | 87 | 84 | 82 | 80 |
| 5 | 96 | 89 | 84 | 80 | 95 | 88 | 84 | 80 | 87 | 82 | 79 | 85 | 81 | 79 | 83 | 80 | 78 | 77 |
| 6 | 93 | 85 | 80 | 76 | 91 | 84 | 79 | 76 | 83 | 79 | 75 | 82 | 78 | 75 | 80 | 77 | 74 | 73 |
| 7 | 89 | 81 | 76 | 73 | 88 | 81 | 76 | 72 | 79 | 75 | 72 | 78 | 74 | 72 | 77 | 74 | 71 | 70 |
| 8 | 86 | 78 | 73 | 69 | 85 | 77 | 72 | 69 | 76 | 72 | 69 | 75 | 71 | 69 | 74 | 71 | 68 | 67 |
| 9 | 83 | 75 | 70 | 66 | 82 | 74 | 69 | 66 | 73 | 69 | 66 | 73 | 69 | 66 | 72 | 68 | 66 | 64 |
| 10 | 80 | 72 | 67 | 64 | 79 | 71 | 67 | 64 | 71 | 66 | 63 | 70 | 66 | 63 | 69 | 66 | 63 | 62 |

Zonal Lumen Summary

| | | | | | | | | |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0°-10° | 10°-20° | 20°-30° | 30°-40° | 40°-50° | 50°-60° | 60°-70° | 70°-80° | 80°-90° |
| 103 lm | 223 lm | 118 lm | 32.1 lm | 19.1 lm | 9.30 lm | 5.22 lm | 3.20 lm | 2.13 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 |