

Light efficiency:

72 Lumen/Watt

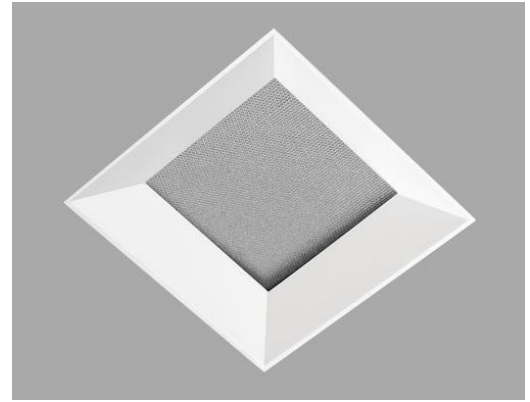
Output: 1181 lm

Light quality:

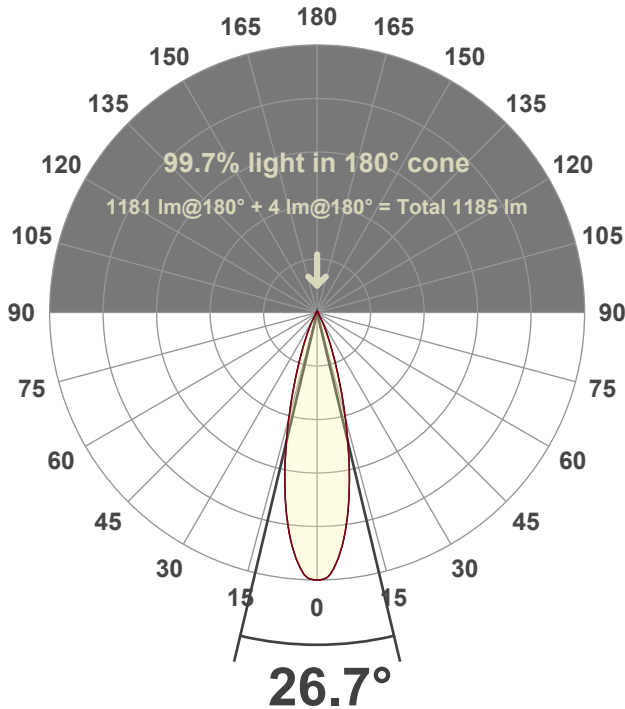
CRI: 96.1

Peak: 4825 cd

Power: 16.4 W



Beam angle



Test number:

CR4D-SA-OR-Z-T15-TW1840-24

Luminaire Model:

Core 4" Square Open Regress T15-1840-24°

Date and time:

8/26/2025 4:13:49 PM

LUM: 1181

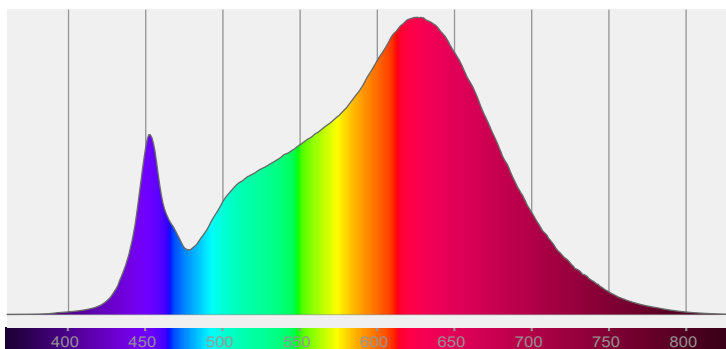
Primary Optic = 26.7°

2944 K

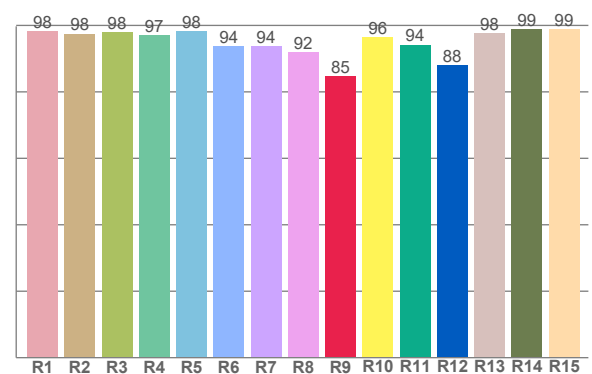
Measured at Mid-Point of Tuneable White CCT Range

\*Variation due to source size, bezel geometry, or secondary optics

Spectra



CRI: 96.1 (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 <sub>f</sub> | TM30 R <sub>g</sub> | CQS                 | x                         | y                         | u                | v                | Δuv                             |
|  | 96.1                  | 84.6          | 93.9                | 103.3               | 93.2                | 0.433                     | 0.388                     | 0.255            | 0.343            | -0.0059                         |

**$R_f$  93.9**

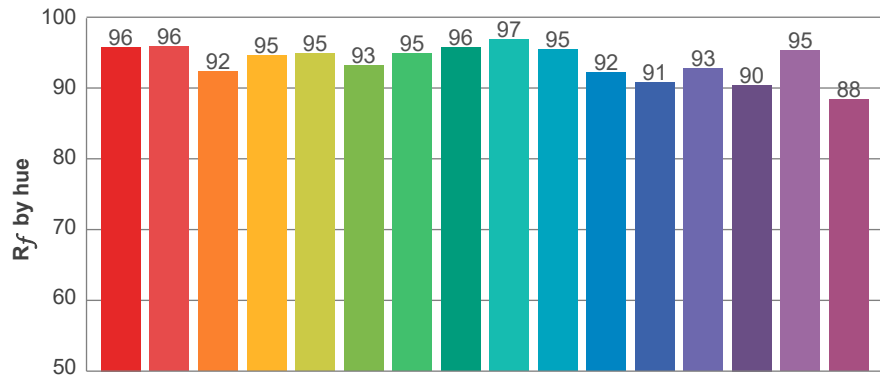
Fidelity index  $R_f$

**$R_g$  103.3**

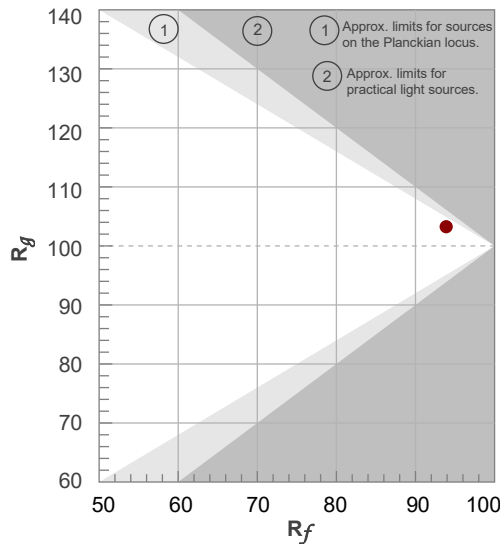
Gammut index  $R_g$

TM30: 93.9

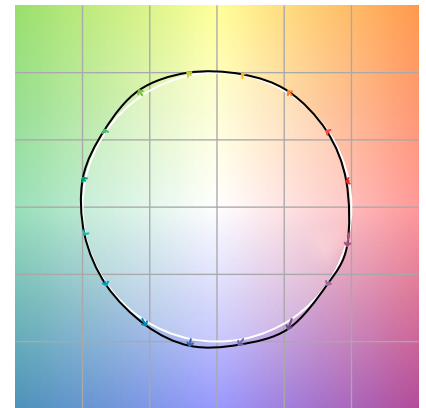
TM-30Color



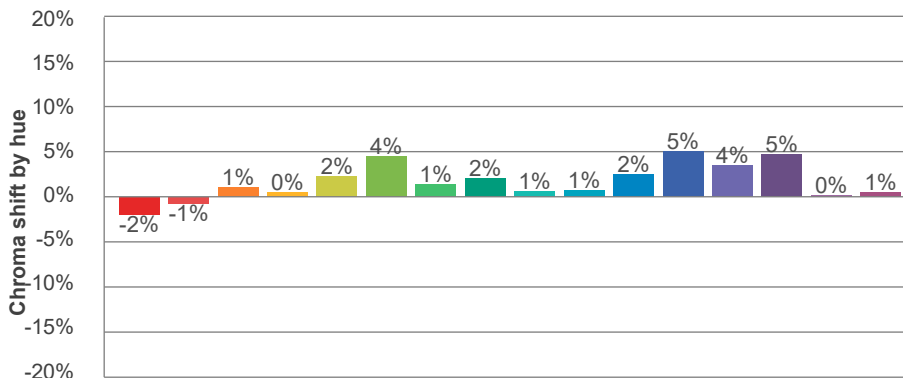
| Hue Bin | $R_f$ | Graphic shifts (%) |     |
|---------|-------|--------------------|-----|
|         |       | Chroma             | Hue |
| 1       | 96    | -2%                | 0%  |
| 2       | 96    | -1%                | 2%  |
| 3       | 92    | 1%                 | 4%  |
| 4       | 95    | 0%                 | 1%  |
| 5       | 95    | 2%                 | 2%  |
| 6       | 93    | 4%                 | 0%  |
| 7       | 95    | 1%                 | -1% |
| 8       | 96    | 2%                 | -2% |
| 9       | 97    | 1%                 | 1%  |
| 10      | 95    | 1%                 | 3%  |
| 11      | 92    | 2%                 | 5%  |
| 12      | 91    | 5%                 | 0%  |
| 13      | 93    | 4%                 | -4% |
| 14      | 90    | 5%                 | -6% |
| 15      | 95    | 0%                 | -3% |
| 16      | 88    | 1%                 | -9% |



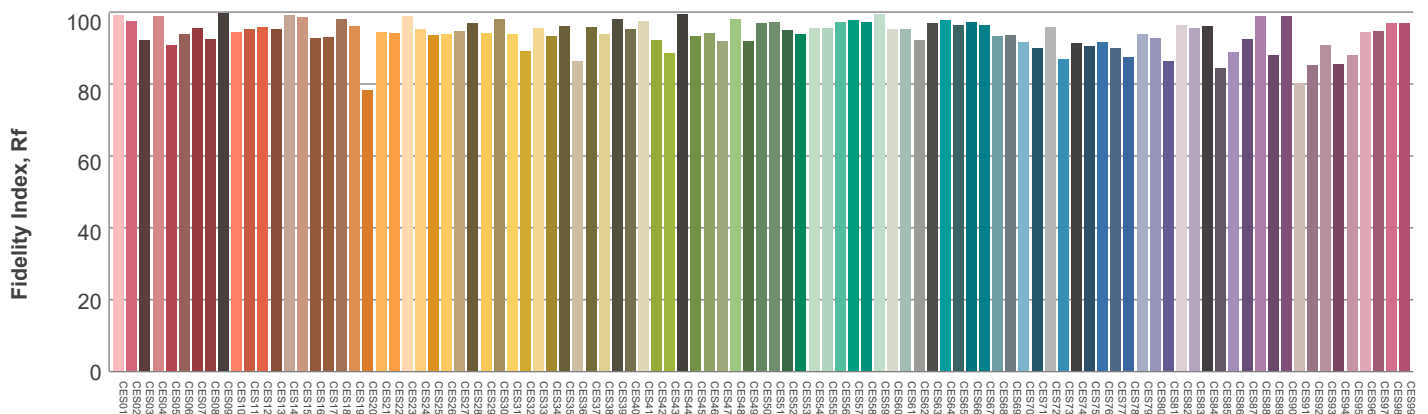
Color vector graphics



Color distortion

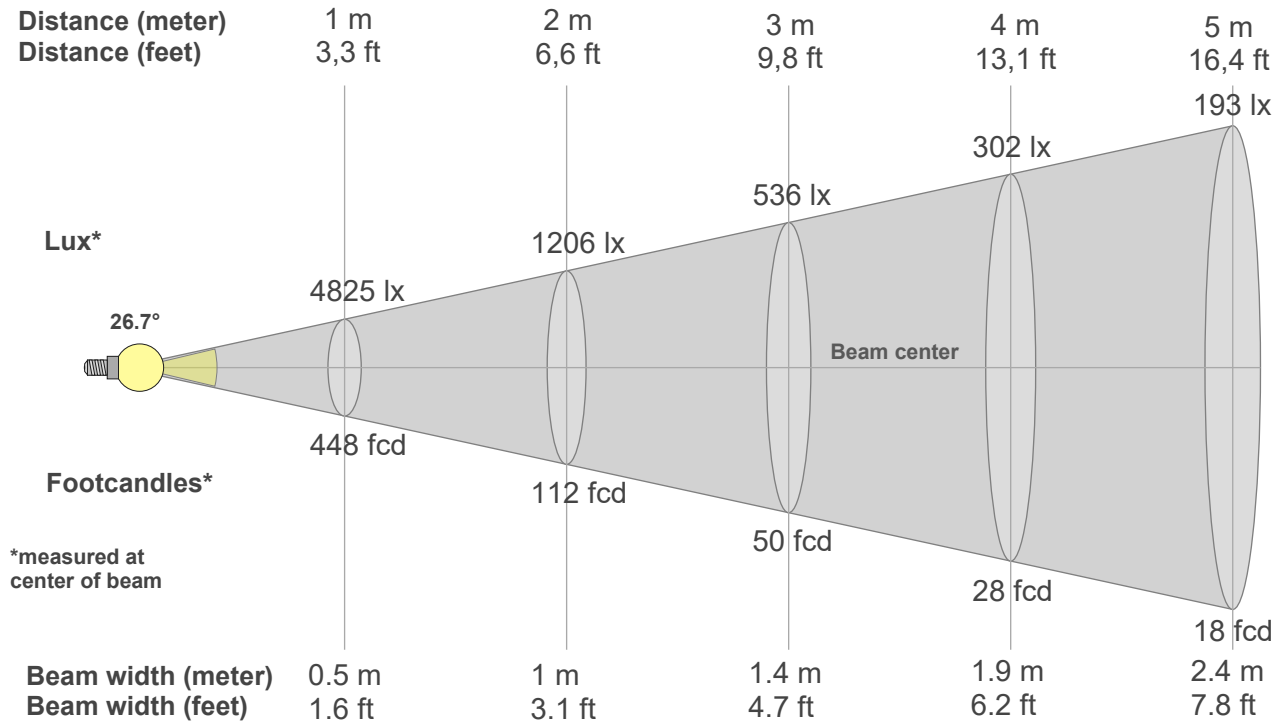


Hue bin



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 |
| 4825lx   | 1206lx   | 536lx   | 302lx  | 193lx   | 134lx   | 98lx   | 75lx   | 60lx   | 48lx   | 40lx   | 34lx   | 29lx   | 25lx   | 21lx   | 19lx   | 17lx   | 15lx   | 13lx   | 12lx   |
| 448.3fcd | 112.1fcd | 49.8fcd | 28fcd  | 17.9fcd | 12.5fcd | 9.1fcd | 7fcd   | 5.5fcd | 4.5fcd | 3.7fcd | 3.1fcd | 2.7fcd | 2.3fcd | 2fcd   | 1.8fcd | 1.6fcd | 1.4fcd | 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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4825 | 4813 | 4601 | 4267 | 3838 | 3339 | 2795 | 2240 | 1735 | 1305 | 956 | 688 | 490 | 346 | 249 | 175 | 116 | 73  | 43  | 23  |
| 100% | 100% | 95%  | 88%  | 80%  | 69%  | 58%  | 46%  | 36%  | 27%  | 20% | 14% | 10% | 7%  | 5%  | 4%  | 2%  | 2%  | 1%  | 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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4825 | 4813 | 4601 | 4267 | 3838 | 3339 | 2795 | 2240 | 1735 | 1305 | 956 | 688 | 490 | 346 | 249 | 175 | 116 | 73  | 43  | 23  |
| 100% | 100% | 95%  | 88%  | 80%  | 69%  | 58%  | 46%  | 36%  | 27%  | 20% | 14% | 10% | 7%  | 5%  | 4%  | 2%  | 2%  | 1%  | 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° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4825 | 4813 | 4601 | 4267 | 3838 | 3339 | 2795 | 2240 | 1735 | 1305 | 956 | 688 | 490 | 346 | 249 | 175 | 116 | 73  | 43  | 23  |
| 100% | 100% | 95%  | 88%  | 80%  | 69%  | 58%  | 46%  | 36%  | 27%  | 20% | 14% | 10% | 7%  | 5%  | 4%  | 2%  | 2%  | 1%  | 0%  |

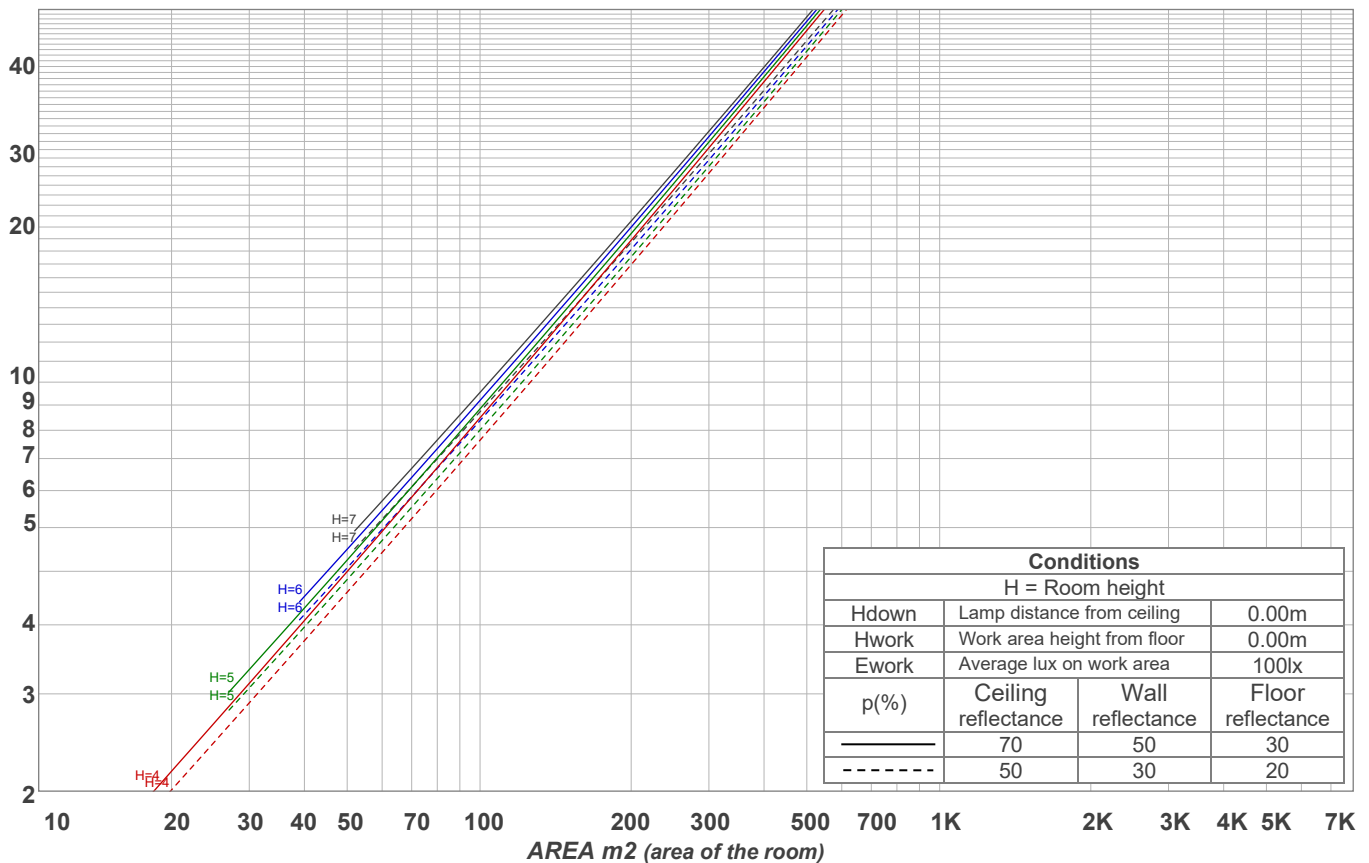
### Intensities in 270° c-plane

| 0°   | 2°   | 4°   | 6°   | 8°   | 10°  | 12°  | 14°  | 16°  | 18°  | 20° | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° |
|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4825 | 4813 | 4601 | 4267 | 3838 | 3339 | 2795 | 2240 | 1735 | 1305 | 956 | 688 | 490 | 346 | 249 | 175 | 116 | 73  | 43  | 23  |
| 100% | 100% | 95%  | 88%  | 80%  | 69%  | 58%  | 46%  | 36%  | 27%  | 20% | 14% | 10% | 7%  | 5%  | 4%  | 2%  | 2%  | 1%  | 0%  |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 26.7°          | 48.2°           | 63.7°             | 99.5%                        | 99.4%                       |

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

## Zonal Lumen Summary

| 0°-10°   | 10°-20°   | 20°-30°   | 30°-40°   | 40°-50°   | 50°-60°   | 60°-70°   | 70°-80°   | 80°-90°   |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 390 lm   | 542 lm    | 200 lm    | 40.3 lm   | 2.40 lm   | 1.20 lm   | 1.41 lm   | 1.80 lm   | 2.56 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  |

[www.specialty-lighting.com](http://www.specialty-lighting.com) As a result of our continuous improvement, values are subject to change without notice. These are delivered results and can vary +/- 10% from published source data range.