

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P1219825

Luminaire Tested: SEC2HSSOLMBLK-3000K

Issue Date: 1/8/2026

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-2019  
Report Number: P1219825  
Test Lab: INNOVATION CENTER  
Issue Date: 1/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: SEC2HSSOLMBLK-3000K  
Description: Solar SEL 1500 5CCT Motion 2H BLK-3000K

Light Source:  
Ballast/Driver: -

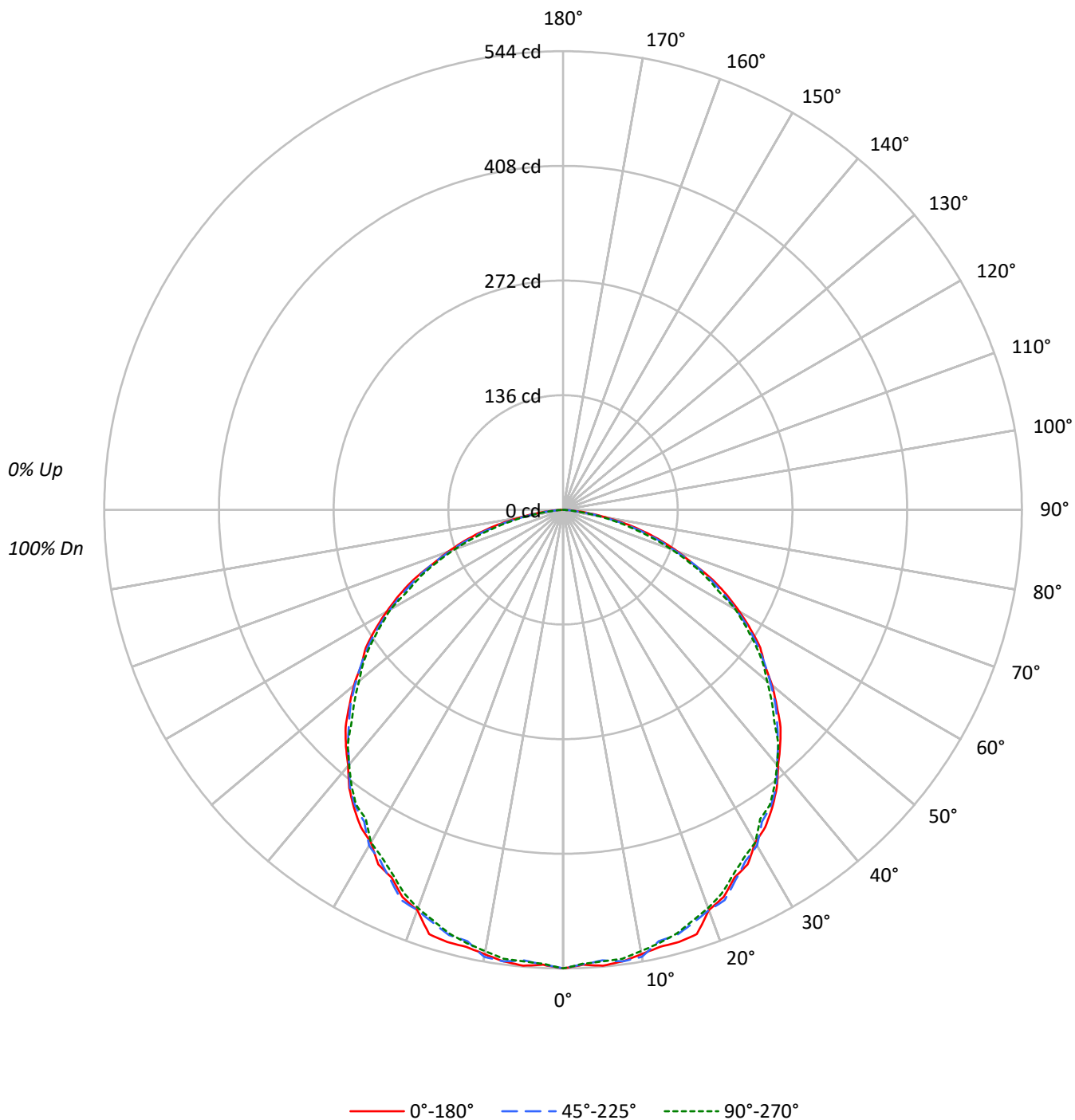
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1516.3 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.37  
Luminous Opening: Rectangular (W 0.25' x L: 0.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 12  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: >0.10  
Total Harmonic Distortion (THDi): <21  
Frequency (hertz): 60  
Stabilization Time: HR  
Operation Time: HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|--|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |  | 20  |     |     |  | 20  |     |     |  | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     | 50  |     |     |  | 30  |     |     |  | 10  |     |     |  | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |  | 100 |
| 1   | 109 | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 98  | 95  | 92  |  | 94  | 91  | 89  |  | 90  | 88  | 86  |  | 84  |
| 2   | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 80  | 76  |  | 82  | 78  | 74  |  | 79  | 76  | 73  |  | 70  |
| 3   | 90  | 80  | 72  | 65  | 88  | 78  | 71  | 65  | 75  | 69  | 64  |  | 73  | 67  | 63  |  | 70  | 65  | 62  |  | 59  |
| 4   | 83  | 71  | 62  | 55  | 81  | 70  | 61  | 55  | 67  | 60  | 54  |  | 65  | 59  | 54  |  | 63  | 57  | 53  |  | 51  |
| 5   | 76  | 63  | 54  | 48  | 74  | 62  | 54  | 47  | 60  | 53  | 47  |  | 58  | 52  | 46  |  | 56  | 50  | 46  |  | 44  |
| 6   | 70  | 57  | 48  | 42  | 68  | 56  | 48  | 41  | 54  | 47  | 41  |  | 53  | 46  | 41  |  | 51  | 45  | 40  |  | 38  |
| 7   | 65  | 52  | 43  | 37  | 63  | 51  | 42  | 37  | 49  | 42  | 36  |  | 48  | 41  | 36  |  | 46  | 40  | 36  |  | 34  |
| 8   | 61  | 47  | 39  | 33  | 59  | 46  | 38  | 33  | 45  | 38  | 32  |  | 44  | 37  | 32  |  | 43  | 37  | 32  |  | 30  |
| 9   | 57  | 43  | 35  | 29  | 55  | 43  | 35  | 29  | 41  | 34  | 29  |  | 40  | 34  | 29  |  | 39  | 33  | 29  |  | 27  |
| 10  | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 27  | 38  | 31  | 27  |  | 37  | 31  | 26  |  | 37  | 31  | 26  |  | 25  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 31224 | 31224 | 31224 |
| 5°  | 31274 | 30911 | 30986 |
| 10° | 31198 | 31379 | 30983 |
| 15° | 31547 | 31030 | 30923 |
| 20° | 30870 | 30870 | 30717 |
| 25° | 30474 | 30670 | 30233 |
| 30° | 30194 | 30486 | 30194 |
| 35° | 30268 | 30093 | 29960 |
| 40° | 29706 | 29571 | 29571 |
| 45° | 29609 | 29154 | 28748 |
| 50° | 28901 | 28731 | 28177 |
| 55° | 28585 | 28215 | 27844 |
| 60° | 27728 | 27223 | 27085 |
| 65° | 26543 | 25864 | 25279 |
| 70° | 24237 | 23717 | 22878 |
| 75° | 21937 | 20561 | 19186 |
| 80° | 16860 | 15009 | 13984 |
| 85° | 9419  | 6587  | 4479  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 29609 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.3   | 3.4       |
| 10°-20°   | 147.1  | 9.7       |
| 20°-30°   | 222.4  | 14.7      |
| 30°-40°   | 267.3  | 17.6      |
| 40°-50°   | 276.7  | 18.3      |
| 50°-60°   | 249.8  | 16.5      |
| 60°-70°   | 187.0  | 12.3      |
| 70°-80°   | 97.8   | 6.4       |
| 80°-90°   | 16.8   | 1.1       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 420.8  | 27.8      |
| 0°-40°    | 688.1  | 45.4      |
| 0°-60°    | 1214.6 | 80.1      |
| 0°-90°    | 1516.3 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1516.3 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 544 | 544   | 544 | 544   | 544 |      |
| 5°  | 543 | 539   | 536 | 537   | 538 | 52   |
| 15° | 531 | 519   | 522 | 510   | 520 | 149  |
| 25° | 481 | 485   | 484 | 476   | 477 | 223  |
| 35° | 432 | 429   | 429 | 423   | 428 | 269  |
| 45° | 365 | 361   | 359 | 356   | 354 | 280  |
| 55° | 286 | 283   | 282 | 276   | 278 | 253  |
| 65° | 195 | 192   | 190 | 185   | 186 | 191  |
| 75° | 99  | 95    | 93  | 88    | 86  | 104  |
| 85° | 14  | 13    | 10  | 8     | 7   | 20   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 543.9 | 543.9 | 543.9 | 543.9 | 543.9 |
| 2.5°  | 540.2 | 544.5 | 539.6 | 538.3 | 538.9 |
| 5°    | 542.7 | 538.9 | 536.4 | 537.1 | 537.7 |
| 7.5°  | 540.2 | 537.1 | 540.2 | 534.6 | 537.1 |
| 10°   | 535.2 | 533.3 | 538.3 | 534.0 | 531.5 |
| 12.5° | 530.8 | 527.7 | 524.0 | 524.6 | 526.5 |
| 15°   | 530.8 | 519.0 | 522.1 | 510.3 | 520.3 |
| 17.5° | 527.7 | 512.2 | 513.4 | 517.8 | 510.9 |
| 20°   | 505.3 | 503.5 | 505.3 | 504.1 | 502.8 |
| 22.5° | 497.2 | 496.6 | 501.0 | 489.8 | 492.3 |
| 25°   | 481.1 | 484.8 | 484.2 | 475.5 | 477.3 |
| 27.5° | 474.2 | 471.1 | 469.2 | 471.1 | 464.9 |
| 30°   | 455.5 | 458.7 | 459.9 | 456.8 | 455.5 |
| 32.5° | 446.2 | 444.3 | 438.7 | 438.7 | 435.0 |
| 35°   | 431.9 | 428.8 | 429.4 | 423.2 | 427.5 |
| 37.5° | 416.3 | 412.6 | 415.1 | 405.1 | 412.0 |
| 40°   | 396.4 | 397.7 | 394.6 | 394.6 | 394.6 |
| 42.5° | 380.9 | 379.6 | 377.1 | 371.5 | 377.7 |
| 45°   | 364.7 | 360.9 | 359.1 | 356.0 | 354.1 |
| 47.5° | 343.5 | 342.3 | 341.7 | 334.8 | 335.4 |
| 50°   | 323.6 | 322.4 | 321.7 | 318.6 | 315.5 |
| 52.5° | 300.6 | 300.0 | 301.8 | 297.5 | 298.7 |
| 55°   | 285.6 | 283.2 | 281.9 | 275.7 | 278.2 |
| 57.5° | 263.9 | 257.6 | 260.1 | 254.5 | 256.4 |
| 60°   | 241.5 | 239.0 | 237.1 | 230.9 | 235.9 |
| 62.5° | 219.1 | 214.7 | 213.5 | 209.1 | 206.6 |
| 65°   | 195.4 | 191.7 | 190.4 | 184.8 | 186.1 |
| 67.5° | 166.2 | 169.3 | 167.4 | 161.8 | 161.2 |
| 70°   | 144.4 | 144.4 | 141.3 | 136.9 | 136.3 |
| 72.5° | 122.0 | 120.1 | 117.6 | 113.3 | 111.4 |
| 75°   | 98.9  | 95.2  | 92.7  | 87.7  | 86.5  |
| 77.5° | 75.3  | 72.2  | 69.1  | 64.7  | 64.1  |
| 80°   | 51.0  | 49.2  | 45.4  | 41.7  | 42.3  |
| 82.5° | 31.7  | 29.9  | 26.1  | 23.0  | 23.0  |
| 85°   | 14.3  | 13.1  | 10.0  | 8.1   | 6.8   |
| 87.5° | 3.1   | 2.5   | 1.9   | 1.2   | 1.2   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

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**CIE UGR TABLE:**

| Reflectances:   |      |                  |      |      |      |      |                |      |      |      |      |
|-----------------|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling         |      | 0.7              | 0.7  | 0.5  | 0.5  | 0.3  | 0.7            | 0.7  | 0.5  | 0.5  | 0.3  |
| Wall            |      | 0.5              | 0.3  | 0.5  | 0.3  | 0.3  | 0.5            | 0.3  | 0.5  | 0.3  | 0.3  |
| Reference plane |      | 0.2              | 0.2  | 0.2  | 0.2  | 0.2  | 0.2            | 0.2  | 0.2  | 0.2  | 0.2  |
| Room Dimensions |      | Viewed crosswise |      |      |      |      | Viewed endwise |      |      |      |      |
| X=2H            | Y=2H | 23.8             | 25.5 | 24.2 | 25.8 | 26.1 | 23.7           | 25.3 | 24.1 | 25.7 | 26.0 |
|                 | 3H   | 25.6             | 27.1 | 26.0 | 27.4 | 27.8 | 25.4           | 26.9 | 25.8 | 27.2 | 27.6 |
|                 | 4H   | 26.2             | 27.6 | 26.6 | 27.9 | 28.3 | 25.9           | 27.3 | 26.3 | 27.7 | 28.0 |
|                 | 6H   | 26.6             | 27.9 | 27.0 | 28.2 | 28.6 | 26.2           | 27.5 | 26.6 | 27.9 | 28.3 |
|                 | 8H   | 26.7             | 27.9 | 27.1 | 28.3 | 28.7 | 26.3           | 27.5 | 26.7 | 27.9 | 28.3 |
|                 | 12H  | 26.7             | 27.9 | 27.1 | 28.3 | 28.7 | 26.3           | 27.4 | 26.7 | 27.8 | 28.3 |
| 4H              | 2H   | 24.5             | 25.8 | 24.9 | 26.2 | 26.6 | 24.4           | 25.8 | 24.8 | 26.1 | 26.5 |
|                 | 3H   | 26.4             | 27.6 | 26.8 | 28.0 | 28.4 | 26.2           | 27.4 | 26.7 | 27.8 | 28.2 |
|                 | 4H   | 27.1             | 28.2 | 27.6 | 28.6 | 29.0 | 26.9           | 27.9 | 27.3 | 28.3 | 28.8 |
|                 | 6H   | 27.6             | 28.5 | 28.1 | 29.0 | 29.4 | 27.3           | 28.2 | 27.7 | 28.6 | 29.1 |
|                 | 8H   | 27.7             | 28.6 | 28.2 | 29.0 | 29.5 | 27.3           | 28.2 | 27.8 | 28.6 | 29.1 |
|                 | 12H  | 27.8             | 28.6 | 28.3 | 29.0 | 29.5 | 27.3           | 28.1 | 27.8 | 28.6 | 29.0 |
| 8H              | 4H   | 27.4             | 28.2 | 27.9 | 28.7 | 29.2 | 27.1           | 28.0 | 27.6 | 28.4 | 28.9 |
|                 | 6H   | 28.0             | 28.7 | 28.4 | 29.1 | 29.6 | 27.6           | 28.3 | 28.1 | 28.8 | 29.3 |
|                 | 8H   | 28.1             | 28.7 | 28.6 | 29.2 | 29.7 | 27.7           | 28.3 | 28.2 | 28.8 | 29.3 |
|                 | 12H  | 28.2             | 28.7 | 28.7 | 29.2 | 29.8 | 27.7           | 28.3 | 28.2 | 28.8 | 29.3 |
| 12H             | 4H   | 27.4             | 28.2 | 27.9 | 28.6 | 29.1 | 27.2           | 27.9 | 27.6 | 28.4 | 28.9 |
|                 | 6H   | 28.0             | 28.6 | 28.5 | 29.1 | 29.6 | 27.6           | 28.3 | 28.1 | 28.7 | 29.3 |
|                 | 8H   | 28.1             | 28.7 | 28.7 | 29.2 | 29.8 | 27.7           | 28.3 | 28.2 | 28.8 | 29.3 |

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