

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: P1212275

Luminaire Tested: SEC2HSHWMBLK-3000K

Issue Date: 11/18/2025

Tested By:

Approved By:



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**Test Information**

Test Method: LM-79-2019  
Report Number: P1212275  
Test Lab: INNOVATION CENTER  
Issue Date: 11/18/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: SEC2HSHWMBLK-3000K  
Description: 120V SEL 2500 Motion 2H Blk at 3000K

Light Source:  
Ballast/Driver: -

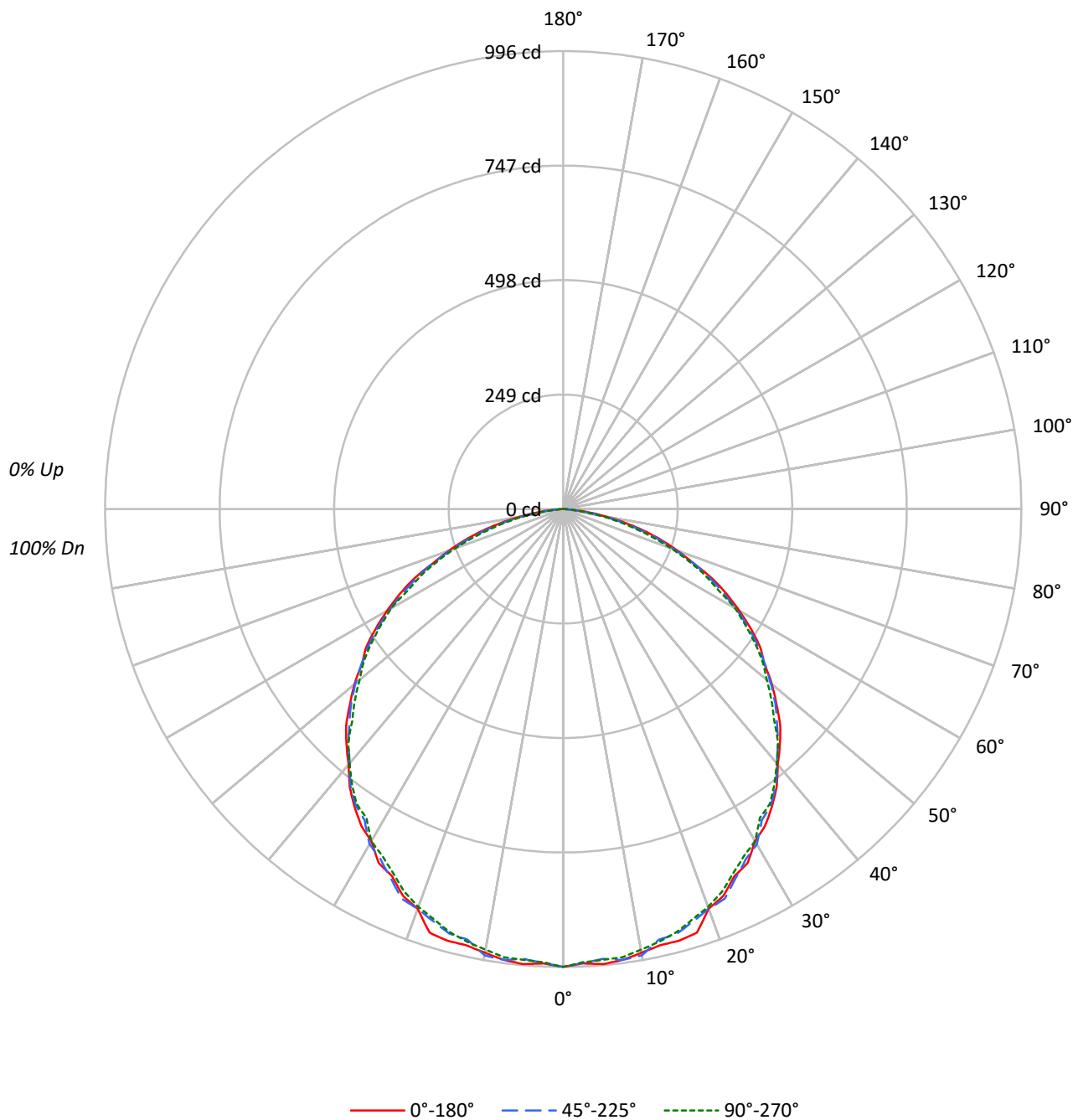
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2776.1 lumens  
Efficiency: N/A  
Efficacy: 126.8 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): 21.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: >0.9  
Total Harmonic Distortion (THDi): <20  
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  |
| RC  | 80  |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |     |     | 0   |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |
| 1   | 109 | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 91  | 89  | 90  | 88  | 86  | 86  | 86  | 84  |
| 2   | 99  | 91  | 84  | 79  | 97  | 89  | 83  | 78  | 86  | 80  | 76  | 82  | 78  | 74  | 79  | 76  | 73  | 73  | 73  | 70  |
| 3   | 90  | 80  | 72  | 65  | 88  | 78  | 71  | 65  | 75  | 69  | 64  | 73  | 67  | 63  | 70  | 65  | 62  | 62  | 62  | 59  |
| 4   | 83  | 71  | 62  | 55  | 81  | 70  | 61  | 55  | 67  | 60  | 54  | 65  | 59  | 54  | 63  | 57  | 53  | 53  | 53  | 51  |
| 5   | 76  | 63  | 54  | 48  | 74  | 62  | 54  | 47  | 60  | 53  | 47  | 58  | 52  | 46  | 56  | 50  | 46  | 46  | 46  | 44  |
| 6   | 70  | 57  | 48  | 42  | 68  | 56  | 48  | 41  | 54  | 47  | 41  | 53  | 46  | 41  | 51  | 45  | 40  | 40  | 40  | 38  |
| 7   | 65  | 52  | 43  | 37  | 63  | 51  | 42  | 37  | 49  | 42  | 36  | 48  | 41  | 36  | 46  | 40  | 36  | 36  | 36  | 34  |
| 8   | 61  | 47  | 39  | 33  | 59  | 46  | 38  | 33  | 45  | 38  | 32  | 44  | 37  | 32  | 43  | 37  | 32  | 32  | 32  | 30  |
| 9   | 57  | 43  | 35  | 29  | 55  | 43  | 35  | 29  | 41  | 34  | 29  | 40  | 34  | 29  | 39  | 33  | 29  | 29  | 29  | 27  |
| 10  | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 26  | 37  | 31  | 26  | 26  | 26  | 25  |

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

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 57166 | 57166 | 57166 |
| 5°  | 57252 | 56601 | 56728 |
| 10° | 57121 | 57454 | 56719 |
| 15° | 57763 | 56812 | 56610 |
| 20° | 56522 | 56522 | 56241 |
| 25° | 55785 | 56147 | 55355 |
| 30° | 55285 | 55815 | 55285 |
| 35° | 55414 | 55098 | 54860 |
| 40° | 54392 | 54137 | 54137 |
| 45° | 54208 | 53372 | 52633 |
| 50° | 52916 | 52613 | 51595 |
| 55° | 52346 | 51655 | 50974 |
| 60° | 50760 | 49841 | 49577 |
| 65° | 48603 | 47367 | 46280 |
| 70° | 44362 | 43406 | 41878 |
| 75° | 40191 | 37663 | 35134 |
| 80° | 30878 | 27506 | 25621 |
| 85° | 17257 | 11988 | 8233  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 54208 cd/sqm

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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 94.0   | 3.4       |
| 10°-20°   | 269.3  | 9.7       |
| 20°-30°   | 407.2  | 14.7      |
| 30°-40°   | 489.4  | 17.6      |
| 40°-50°   | 506.6  | 18.3      |
| 50°-60°   | 457.4  | 16.5      |
| 60°-70°   | 342.4  | 12.3      |
| 70°-80°   | 179.1  | 6.5       |
| 80°-90°   | 30.8   | 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°    | 770.4  | 27.8      |
| 0°-40°    | 1259.8 | 45.4      |
| 0°-60°    | 2223.8 | 80.1      |
| 0°-90°    | 2776.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2776.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 996 | 996   | 996 | 996   | 996 |      |
| 5°  | 994 | 987   | 982 | 983   | 984 | 94   |
| 15° | 972 | 950   | 956 | 934   | 952 | 273  |
| 25° | 881 | 888   | 886 | 870   | 874 | 408  |
| 35° | 791 | 785   | 786 | 775   | 783 | 493  |
| 45° | 668 | 661   | 657 | 652   | 648 | 512  |
| 55° | 523 | 518   | 516 | 505   | 509 | 464  |
| 65° | 358 | 351   | 349 | 338   | 341 | 350  |
| 75° | 181 | 174   | 170 | 161   | 158 | 190  |
| 85° | 26  | 24    | 18  | 15    | 12  | 37   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 995.8 | 995.8 | 995.8 | 995.8 | 995.8 |
| 2.5°  | 989.0 | 997.0 | 987.8 | 985.6 | 986.7 |
| 5°    | 993.5 | 986.7 | 982.2 | 983.3 | 984.4 |
| 7.5°  | 989.0 | 983.3 | 989.0 | 978.7 | 983.3 |
| 10°   | 979.9 | 976.5 | 985.6 | 977.6 | 973.0 |
| 12.5° | 971.9 | 966.2 | 959.4 | 960.5 | 963.9 |
| 15°   | 971.9 | 950.2 | 955.9 | 934.3 | 952.5 |
| 17.5° | 966.2 | 937.7 | 940.0 | 948.0 | 935.4 |
| 20°   | 925.2 | 921.8 | 925.2 | 922.9 | 920.6 |
| 22.5° | 910.4 | 909.2 | 917.2 | 896.7 | 901.3 |
| 25°   | 880.7 | 887.6 | 886.4 | 870.5 | 873.9 |
| 27.5° | 868.2 | 862.5 | 859.1 | 862.5 | 851.1 |
| 30°   | 834.0 | 839.7 | 842.0 | 836.3 | 834.0 |
| 32.5° | 816.9 | 813.5 | 803.3 | 803.3 | 796.4 |
| 35°   | 790.7 | 785.0 | 786.2 | 774.8 | 782.8 |
| 37.5° | 762.2 | 755.4 | 760.0 | 741.7 | 754.3 |
| 40°   | 725.8 | 728.1 | 722.4 | 722.4 | 722.4 |
| 42.5° | 697.3 | 695.0 | 690.5 | 680.2 | 691.6 |
| 45°   | 667.7 | 660.8 | 657.4 | 651.7 | 648.3 |
| 47.5° | 628.9 | 626.7 | 625.5 | 613.0 | 614.1 |
| 50°   | 592.5 | 590.2 | 589.1 | 583.4 | 577.7 |
| 52.5° | 550.3 | 549.2 | 552.6 | 544.6 | 546.9 |
| 55°   | 523.0 | 518.4 | 516.1 | 504.7 | 509.3 |
| 57.5° | 483.1 | 471.7 | 476.3 | 466.0 | 469.4 |
| 60°   | 442.1 | 437.5 | 434.1 | 422.7 | 431.8 |
| 62.5° | 401.1 | 393.1 | 390.8 | 382.8 | 378.3 |
| 65°   | 357.8 | 350.9 | 348.7 | 338.4 | 340.7 |
| 67.5° | 304.2 | 309.9 | 306.5 | 296.2 | 295.1 |
| 70°   | 264.3 | 264.3 | 258.6 | 250.7 | 249.5 |
| 72.5° | 223.3 | 219.9 | 215.3 | 207.4 | 204.0 |
| 75°   | 181.2 | 174.3 | 169.8 | 160.7 | 158.4 |
| 77.5° | 137.9 | 132.2 | 126.5 | 118.5 | 117.4 |
| 80°   | 93.4  | 90.0  | 83.2  | 76.3  | 77.5  |
| 82.5° | 58.1  | 54.7  | 47.9  | 42.2  | 42.2  |
| 85°   | 26.2  | 23.9  | 18.2  | 14.8  | 12.5  |
| 87.5° | 5.7   | 4.6   | 3.4   | 2.3   | 2.3   |
| 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 | 25.9             | 27.6 | 26.3 | 27.9 | 28.2 | 25.8           | 27.4 | 26.2 | 27.8 | 28.1 |
|                 | 3H   | 27.7             | 29.2 | 28.1 | 29.5 | 29.9 | 27.5           | 29.0 | 27.9 | 29.3 | 29.7 |
|                 | 4H   | 28.3             | 29.7 | 28.7 | 30.0 | 30.4 | 28.0           | 29.4 | 28.4 | 29.8 | 30.1 |
|                 | 6H   | 28.7             | 30.0 | 29.1 | 30.3 | 30.7 | 28.3           | 29.6 | 28.7 | 30.0 | 30.4 |
|                 | 8H   | 28.8             | 30.0 | 29.2 | 30.4 | 30.8 | 28.4           | 29.6 | 28.8 | 30.0 | 30.4 |
|                 | 12H  | 28.8             | 30.0 | 29.2 | 30.4 | 30.8 | 28.4           | 29.6 | 28.8 | 29.9 | 30.4 |
| 4H              | 2H   | 26.6             | 27.9 | 27.0 | 28.3 | 28.7 | 26.5           | 27.9 | 26.9 | 28.2 | 28.6 |
|                 | 3H   | 28.5             | 29.7 | 28.9 | 30.1 | 30.5 | 28.3           | 29.5 | 28.8 | 29.9 | 30.3 |
|                 | 4H   | 29.3             | 30.3 | 29.7 | 30.7 | 31.1 | 29.0           | 30.0 | 29.4 | 30.4 | 30.9 |
|                 | 6H   | 29.7             | 30.6 | 30.2 | 31.1 | 31.5 | 29.4           | 30.3 | 29.8 | 30.7 | 31.2 |
|                 | 8H   | 29.8             | 30.7 | 30.3 | 31.1 | 31.6 | 29.4           | 30.3 | 29.9 | 30.7 | 31.2 |
|                 | 12H  | 29.9             | 30.7 | 30.4 | 31.1 | 31.6 | 29.4           | 30.2 | 29.9 | 30.7 | 31.1 |
| 8H              | 4H   | 29.5             | 30.3 | 30.0 | 30.8 | 31.3 | 29.2           | 30.1 | 29.7 | 30.5 | 31.0 |
|                 | 6H   | 30.1             | 30.8 | 30.5 | 31.2 | 31.7 | 29.7           | 30.4 | 30.2 | 30.9 | 31.4 |
|                 | 8H   | 30.2             | 30.8 | 30.7 | 31.3 | 31.8 | 29.8           | 30.4 | 30.3 | 30.9 | 31.4 |
|                 | 12H  | 30.3             | 30.8 | 30.8 | 31.3 | 31.9 | 29.8           | 30.4 | 30.3 | 30.9 | 31.4 |
| 12H             | 4H   | 29.5             | 30.3 | 30.0 | 30.7 | 31.2 | 29.3           | 30.0 | 29.7 | 30.5 | 31.0 |
|                 | 6H   | 30.1             | 30.7 | 30.6 | 31.2 | 31.7 | 29.7           | 30.4 | 30.2 | 30.8 | 31.4 |
|                 | 8H   | 30.3             | 30.8 | 30.8 | 31.3 | 31.9 | 29.8           | 30.4 | 30.4 | 30.9 | 31.5 |

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