

Scaled data based on original data using  
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: P845440

Luminaire Tested: L80819ECPKSP930MB

Issue Date: 6/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P845440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2404-355-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: L80819ECPKSP930MB  
Description: HALO TRACK, 3000K, WITH 17D OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

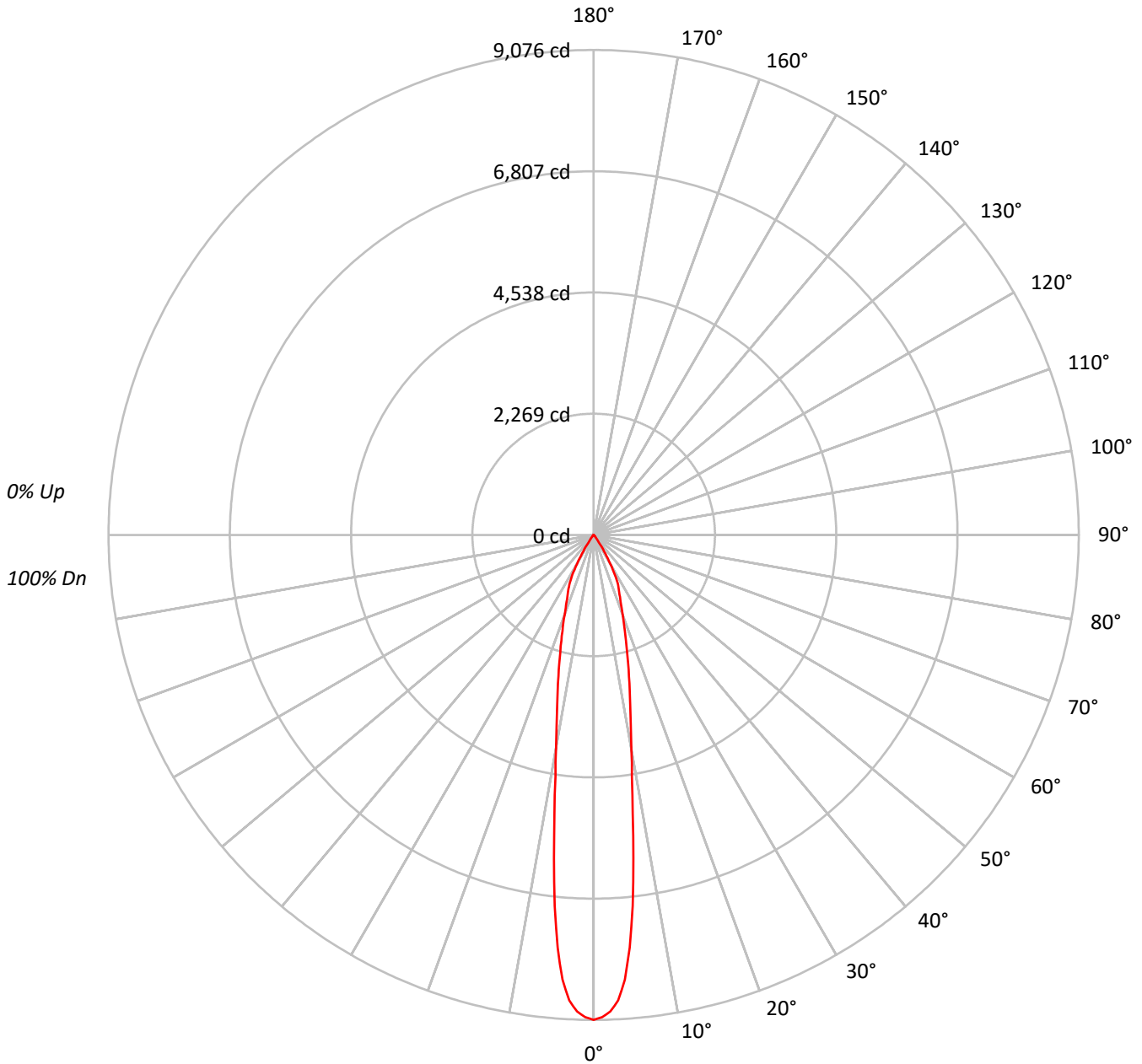
Lumens per Lamp: N/A  
Luminaire Lumens: 1968.0 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.38  
Luminous Opening: Circular (Dia: 0.21' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
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 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 50  |     |     |     |     |     |     |     |     | 30 |    |   |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 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   | 115 | 112 | 110 | 109 | 112 | 110 | 108 | 107 | 106 | 105 | 104 | 103 | 102 | 101 | 99  | 98  | 98  | 96  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 110 | 107 | 103 | 101 | 108 | 105 | 102 | 100 | 102 | 99  | 97  | 99  | 97  | 95  | 96  | 95  | 93  | 92  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 107 | 101 | 98  | 94  | 105 | 100 | 97  | 94  | 98  | 95  | 92  | 95  | 93  | 91  | 93  | 91  | 90  | 88  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 103 | 97  | 93  | 89  | 101 | 96  | 92  | 89  | 94  | 90  | 88  | 92  | 89  | 87  | 90  | 88  | 86  | 85  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 99  | 93  | 88  | 85  | 98  | 92  | 88  | 85  | 90  | 87  | 84  | 89  | 86  | 83  | 87  | 85  | 83  | 81  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 96  | 89  | 85  | 81  | 95  | 88  | 84  | 81  | 87  | 83  | 80  | 86  | 82  | 80  | 85  | 82  | 79  | 78  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 93  | 86  | 81  | 78  | 92  | 85  | 81  | 78  | 84  | 80  | 77  | 83  | 79  | 77  | 82  | 79  | 77  | 75  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 90  | 83  | 78  | 75  | 89  | 82  | 78  | 75  | 81  | 77  | 74  | 80  | 77  | 74  | 79  | 76  | 74  | 73  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 87  | 80  | 75  | 72  | 86  | 79  | 75  | 72  | 78  | 75  | 72  | 78  | 74  | 72  | 77  | 74  | 71  | 70  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 84  | 77  | 73  | 70  | 84  | 77  | 72  | 70  | 76  | 72  | 69  | 75  | 72  | 69  | 75  | 71  | 69  | 68  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 2866011 |
| 5°  | 2457225 |
| 10° | 1300694 |
| 15° | 812815  |
| 20° | 534019  |
| 25° | 386803  |
| 30° | 227191  |
| 35° | 63989   |
| 40° | 23908   |
| 45° | 7592    |
| 50° | 3930    |
| 55° | 2753    |
| 60° | 3158    |
| 65° | 2989    |
| 70° | 1846    |
| 75° | 1220    |
| 80° | 1818    |
| 85° | 0       |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7592 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 600.8  | 30.5      |
| 10°-20°   | 698.5  | 35.5      |
| 20°-30°   | 498.6  | 25.3      |
| 30°-40°   | 142.1  | 7.2       |
| 40°-50°   | 17.5   | 0.9       |
| 50°-60°   | 5.0    | 0.3       |
| 60°-70°   | 3.6    | 0.2       |
| 70°-80°   | 1.4    | 0.1       |
| 80°-90°   | 0.4    | 0.0       |
| 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°    | 1797.9 | 91.4      |
| 0°-40°    | 1940.0 | 98.6      |
| 0°-60°    | 1962.5 | 99.7      |
| 0°-90°    | 1968.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1968.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 9076 |      |
| 5°  | 7752 | 601  |
| 15° | 2486 | 699  |
| 25° | 1110 | 499  |
| 35° | 166  | 142  |
| 45° | 17   | 18   |
| 55° | 5    | 5    |
| 65° | 4    | 4    |
| 75° | 1    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 9076.4 |
| 1°    | 9028.4 |
| 2°    | 8924.4 |
| 3°    | 8723.3 |
| 4°    | 8343.3 |
| 5°    | 7752.2 |
| 6°    | 6983.1 |
| 7°    | 6095.9 |
| 8°    | 5263.8 |
| 9°    | 4578.7 |
| 10°   | 4056.6 |
| 11°   | 3637.6 |
| 12°   | 3294.5 |
| 13°   | 2991.5 |
| 14°   | 2724.4 |
| 15°   | 2486.4 |
| 16°   | 2269.3 |
| 17°   | 2068.3 |
| 18°   | 1892.3 |
| 19°   | 1737.3 |
| 20°   | 1589.2 |
| 21°   | 1463.2 |
| 22°   | 1347.2 |
| 23°   | 1255.2 |
| 24°   | 1178.2 |
| 25°   | 1110.2 |
| 26°   | 1043.2 |
| 27°   | 954.1  |
| 28°   | 849.1  |
| 29°   | 738.1  |
| 30°   | 623.1  |
| 31°   | 513.1  |
| 32°   | 412.1  |
| 33°   | 317.0  |
| 34°   | 236.0  |
| 35°   | 166.0  |
| 36°   | 125.0  |
| 37°   | 105.0  |
| 38°   | 89.0   |
| 39°   | 72.0   |
| 40°   | 58.0   |
| 42.5° | 32.0   |
| 45°   | 17.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 52.5° | 6.0 |
| 55°   | 5.0 |
| 57.5° | 5.0 |
| 60°   | 5.0 |
| 62.5° | 4.0 |
| 65°   | 4.0 |
| 67.5° | 3.0 |
| 70°   | 2.0 |
| 72.5° | 2.0 |
| 75°   | 1.0 |
| 77.5° | 1.0 |
| 80°   | 1.0 |
| 82.5° | 1.0 |
| 85°   | 0.0 |
| 87.5° | 0.0 |
| 90°   | 0.0 |

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9



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— 0°-180°

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|       |  |      |
|-------|--|------|
| 47.5° |  | 11.0 |
| 50°   |  | 8.0  |

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Scaled Data Report



(END OF REPORT)