

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: P643120

Luminaire Tested: ML5615LSVWFL759FS1E - 593BB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643120  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-75)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 593BB - 900LM - 5000K  
Description: ML56 RR, 75D TIR OPTIC, 5" BLACK BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

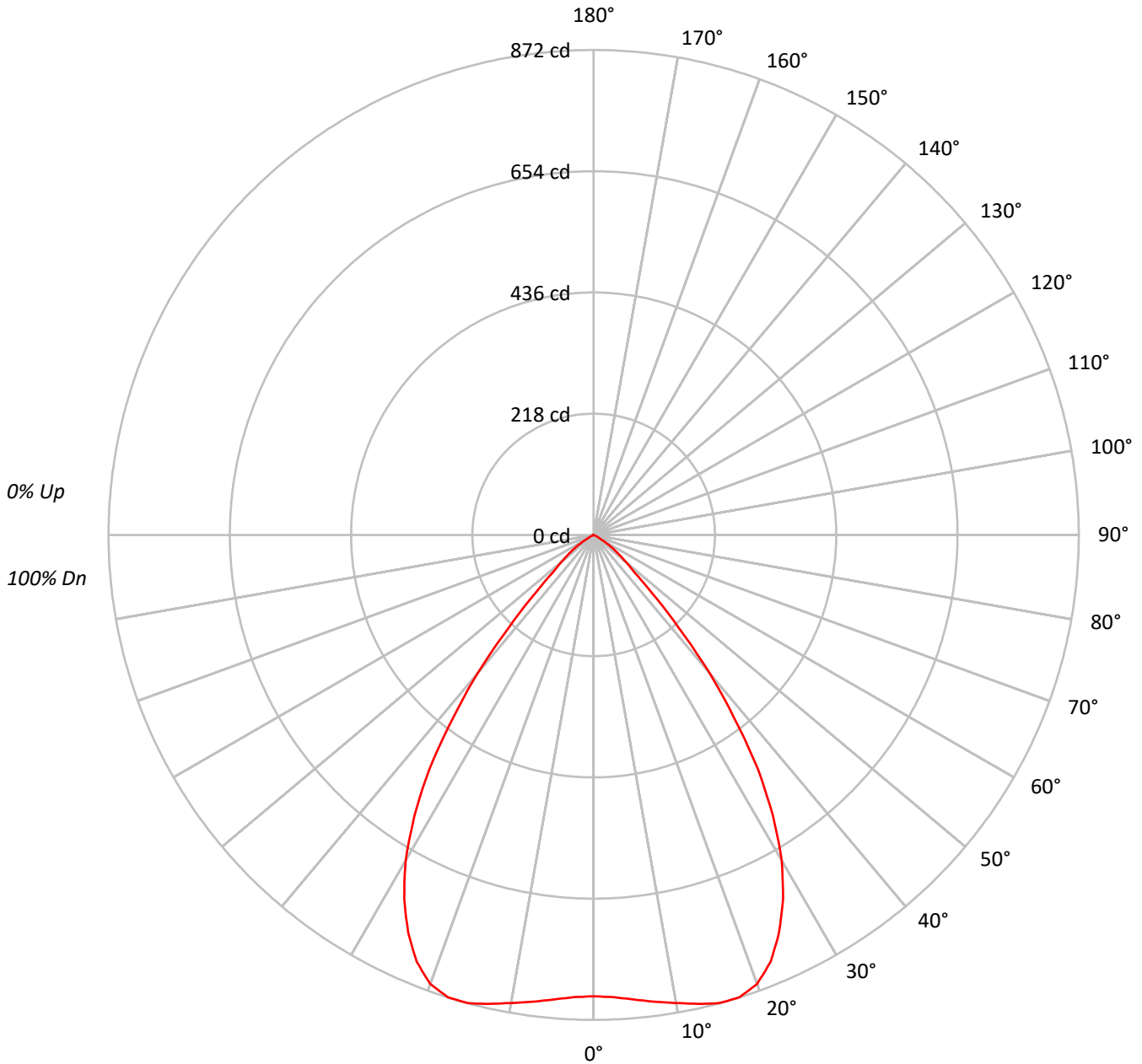
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1168.0 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (Ain): 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  |     |     |     | 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  | 50  | 30  | 10  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 |
| 1   | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 95  | 94  | 92  | 92  | 92  | 92  |
| 2   | 107 | 101 | 97  | 93  | 104 | 100 | 96  | 92  | 96  | 93  | 90  | 93  | 91  | 88  | 91  | 88  | 86  | 85  | 85  | 85  | 85  |
| 3   | 101 | 94  | 88  | 84  | 99  | 92  | 87  | 83  | 90  | 85  | 82  | 87  | 83  | 81  | 85  | 82  | 79  | 78  | 78  | 78  | 78  |
| 4   | 95  | 87  | 80  | 76  | 93  | 85  | 80  | 75  | 83  | 78  | 74  | 81  | 77  | 74  | 79  | 76  | 73  | 71  | 71  | 71  | 71  |
| 5   | 89  | 80  | 74  | 69  | 88  | 79  | 73  | 69  | 77  | 72  | 68  | 76  | 71  | 67  | 74  | 70  | 67  | 65  | 65  | 65  | 65  |
| 6   | 84  | 74  | 68  | 63  | 83  | 74  | 67  | 63  | 72  | 66  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 60  | 60  | 60  | 60  |
| 7   | 79  | 69  | 63  | 58  | 78  | 68  | 62  | 58  | 67  | 62  | 57  | 66  | 61  | 57  | 65  | 60  | 57  | 55  | 55  | 55  | 55  |
| 8   | 75  | 64  | 58  | 53  | 74  | 64  | 58  | 53  | 63  | 57  | 53  | 62  | 57  | 53  | 61  | 56  | 53  | 51  | 51  | 51  | 51  |
| 9   | 71  | 60  | 54  | 49  | 70  | 60  | 54  | 49  | 59  | 53  | 49  | 58  | 53  | 49  | 57  | 52  | 49  | 47  | 47  | 47  | 47  |
| 10  | 67  | 56  | 50  | 46  | 66  | 56  | 50  | 46  | 55  | 50  | 46  | 54  | 49  | 46  | 54  | 49  | 45  | 44  | 44  | 44  | 44  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 65481 |
| 5°  | 66453 |
| 10° | 68504 |
| 15° | 71232 |
| 20° | 72171 |
| 25° | 68688 |
| 30° | 61610 |
| 35° | 49678 |
| 40° | 33306 |
| 45° | 16645 |
| 50° | 9358  |
| 55° | 5643  |
| 60° | 1974  |
| 65° | 205   |
| 70° | 0     |
| 75° | 0     |
| 80° | 0     |
| 85° | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16645 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 80.6   | 6.9       |
| 10°-20°   | 245.6  | 21.0      |
| 20°-30°   | 359.0  | 30.7      |
| 30°-40°   | 314.4  | 26.9      |
| 40°-50°   | 127.7  | 10.9      |
| 50°-60°   | 37.2   | 3.2       |
| 60°-70°   | 3.4    | 0.3       |
| 70°-80°   | 0.0    | 0.0       |
| 80°-90°   | 0.0    | 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°    | 685.2  | 58.7      |
| 0°-40°    | 999.6  | 85.6      |
| 0°-60°    | 1164.5 | 99.7      |
| 0°-90°    | 1168.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1168.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 830 |      |
| 5°  | 839 | 81   |
| 15° | 872 | 246  |
| 25° | 789 | 359  |
| 35° | 516 | 314  |
| 45° | 149 | 128  |
| 55° | 41  | 37   |
| 65° | 1   | 3    |
| 75° | 0   | 0    |
| 85° | 0   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 829.5 |
| 2.5°  | 831.8 |
| 5°    | 838.6 |
| 7.5°  | 846.6 |
| 10°   | 854.6 |
| 12.5° | 863.7 |
| 15°   | 871.6 |
| 17.5° | 871.6 |
| 20°   | 859.1 |
| 22.5° | 830.7 |
| 25°   | 788.6 |
| 27.5° | 737.4 |
| 30°   | 675.9 |
| 32.5° | 599.7 |
| 35°   | 515.5 |
| 37.5° | 415.3 |
| 40°   | 323.2 |
| 42.5° | 225.3 |
| 45°   | 149.1 |
| 47.5° | 99.0  |
| 50°   | 76.2  |
| 52.5° | 56.9  |
| 55°   | 41.0  |
| 57.5° | 26.2  |
| 60°   | 12.5  |
| 62.5° | 6.8   |
| 65°   | 1.1   |
| 67.5° | 0.0   |
| 70°   | 0.0   |
| 72.5° | 0.0   |
| 75°   | 0.0   |
| 77.5° | 0.0   |
| 80°   | 0.0   |
| 82.5° | 0.0   |
| 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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Scaled Data Report



— 0°-180°

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Scaled Data Report



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