

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: P641452

Luminaire Tested: ML5612LSVWFL7597FS1E - 692SC - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641452  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-83)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 692SC - 900LM - 3000K  
Description: ML56 RR, 75D TIR OPTIC, 6" SPECULAR CLEAR TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

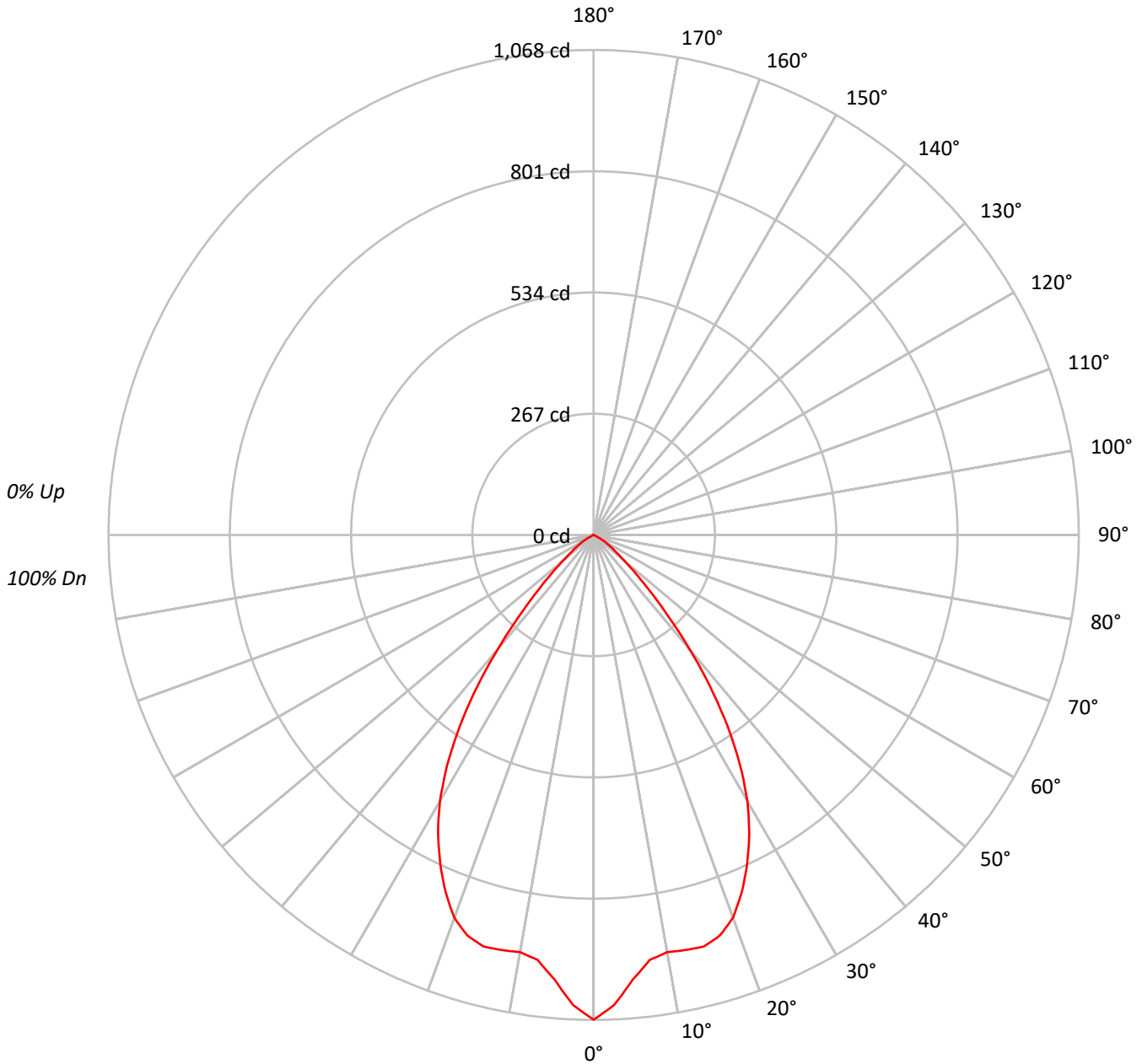
Lumens per Lamp: N/A  
Luminaire Lumens: 1227.7 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.01  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.3  
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  |     |     |  | 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   | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 |  | 100 | 99  | 97  |  | 97  | 95  | 94  | 92  |
| 2   | 107 | 101 | 97  | 93  | 104 | 100 | 96  | 92  | 96  | 93  | 90  |  | 93  | 91  | 88  |  | 91  | 88  | 86  | 85  |
| 3   | 101 | 94  | 88  | 84  | 99  | 92  | 87  | 83  | 89  | 85  | 82  |  | 87  | 83  | 80  |  | 85  | 82  | 79  | 78  |
| 4   | 95  | 86  | 80  | 76  | 93  | 85  | 80  | 75  | 83  | 78  | 74  |  | 81  | 77  | 73  |  | 79  | 76  | 73  | 71  |
| 5   | 89  | 80  | 74  | 69  | 88  | 79  | 73  | 69  | 77  | 72  | 68  |  | 76  | 71  | 67  |  | 74  | 70  | 67  | 65  |
| 6   | 84  | 74  | 68  | 63  | 83  | 74  | 67  | 63  | 72  | 66  | 62  |  | 70  | 66  | 62  |  | 69  | 65  | 61  | 60  |
| 7   | 79  | 69  | 63  | 58  | 78  | 68  | 62  | 58  | 67  | 62  | 57  |  | 66  | 61  | 57  |  | 65  | 60  | 57  | 55  |
| 8   | 75  | 65  | 58  | 53  | 74  | 64  | 58  | 53  | 63  | 57  | 53  |  | 62  | 57  | 53  |  | 61  | 56  | 53  | 51  |
| 9   | 71  | 60  | 54  | 50  | 70  | 60  | 54  | 49  | 59  | 53  | 49  |  | 58  | 53  | 49  |  | 57  | 52  | 49  | 47  |
| 10  | 67  | 57  | 50  | 46  | 66  | 56  | 50  | 46  | 55  | 50  | 46  |  | 54  | 49  | 46  |  | 54  | 49  | 46  | 44  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 58526 |
| 5°  | 54116 |
| 10° | 51931 |
| 15° | 53264 |
| 20° | 52324 |
| 25° | 48348 |
| 30° | 42848 |
| 35° | 34332 |
| 40° | 23537 |
| 45° | 13575 |
| 50° | 7369  |
| 55° | 4396  |
| 60° | 2335  |
| 65° | 584   |
| 70° | 0     |
| 75° | 0     |
| 80° | 0     |
| 85° | 0     |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13575 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 92.3   | 7.5       |
| 10°-20°   | 262.8  | 21.4      |
| 20°-30°   | 365.0  | 29.7      |
| 30°-40°   | 315.5  | 25.7      |
| 40°-50°   | 142.6  | 11.6      |
| 50°-60°   | 43.0   | 3.5       |
| 60°-70°   | 6.4    | 0.5       |
| 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°    | 720.1  | 58.7      |
| 0°-40°    | 1035.6 | 84.4      |
| 0°-60°    | 1221.2 | 99.5      |
| 0°-90°    | 1227.7 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1227.7 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1068 |      |
| 5°  | 983  | 92   |
| 15° | 938  | 263  |
| 25° | 799  | 365  |
| 35° | 513  | 315  |
| 45° | 175  | 143  |
| 55° | 46   | 43   |
| 65° | 4    | 6    |
| 75° | 0    | 0    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1067.6 |
| 2.5°  | 1036.1 |
| 5°    | 983.4  |
| 7.5°  | 944.1  |
| 10°   | 932.9  |
| 12.5° | 936.2  |
| 15°   | 938.5  |
| 17.5° | 925.0  |
| 20°   | 896.9  |
| 22.5° | 852.0  |
| 25°   | 799.3  |
| 27.5° | 742.0  |
| 30°   | 676.9  |
| 32.5° | 599.4  |
| 35°   | 513.0  |
| 37.5° | 421.0  |
| 40°   | 328.9  |
| 42.5° | 243.6  |
| 45°   | 175.1  |
| 47.5° | 123.5  |
| 50°   | 86.4   |
| 52.5° | 61.7   |
| 55°   | 46.0   |
| 57.5° | 32.6   |
| 60°   | 21.3   |
| 62.5° | 10.1   |
| 65°   | 4.5    |
| 67.5° | 1.1    |
| 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





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Scaled Data Report



— 0°-180°

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Scaled Data Report



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