

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: P641786

Luminaire Tested: ML5612LSVWFL97FS1E - 692SC - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-106)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 692SC - 1200LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 6" SPECULAR CLEAR TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

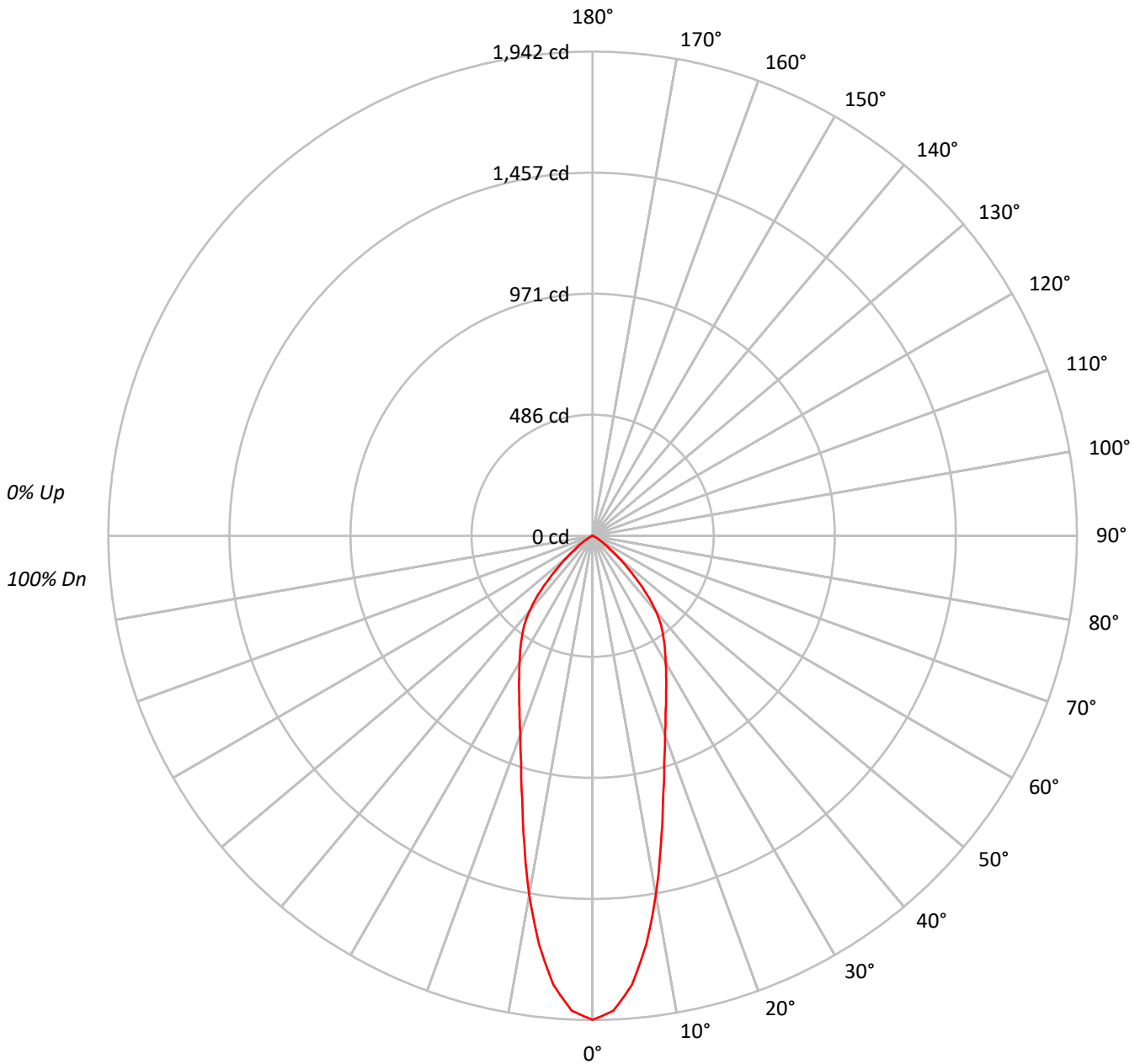
Lumens per Lamp: N/A  
Luminaire Lumens: 1368.2 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Spacing Criteria (0/90/45): 0.54 / 0.54 / 0.69  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.5  
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 | 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 | 106 | 103 | 104 | 102 | 100 | 100 | 99  | 97  | 97  | 95  | 94  | 93  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 2   | 107 | 102 | 97  | 93  | 105 | 100 | 96  | 92  | 97  | 93  | 90  | 94  | 91  | 88  | 91  | 89  | 87  | 85  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 3   | 101 | 94  | 88  | 84  | 99  | 92  | 87  | 83  | 90  | 85  | 82  | 87  | 84  | 81  | 85  | 82  | 79  | 78  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 4   | 95  | 87  | 81  | 76  | 93  | 86  | 80  | 76  | 83  | 79  | 75  | 81  | 77  | 74  | 79  | 76  | 73  | 71  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 5   | 90  | 81  | 74  | 70  | 88  | 80  | 74  | 69  | 78  | 73  | 69  | 76  | 72  | 68  | 74  | 71  | 67  | 66  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 6   | 85  | 75  | 69  | 64  | 83  | 74  | 68  | 64  | 73  | 67  | 63  | 71  | 66  | 63  | 70  | 66  | 62  | 61  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 7   | 80  | 70  | 64  | 59  | 79  | 69  | 63  | 59  | 68  | 63  | 59  | 67  | 62  | 58  | 66  | 61  | 58  | 56  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 8   | 76  | 66  | 59  | 55  | 75  | 65  | 59  | 55  | 64  | 58  | 54  | 63  | 58  | 54  | 62  | 57  | 54  | 52  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 9   | 72  | 62  | 55  | 51  | 71  | 61  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 51  | 58  | 54  | 50  | 49  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |
| 10  | 68  | 58  | 52  | 48  | 67  | 58  | 52  | 48  | 57  | 51  | 48  | 56  | 51  | 47  | 55  | 51  | 47  | 46  |    |    |    |    |    |    |    |    |    |    |    |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 106433 |
| 5°  | 99493  |
| 10° | 81372  |
| 15° | 61885  |
| 20° | 49424  |
| 25° | 42129  |
| 30° | 37063  |
| 35° | 33080  |
| 40° | 28189  |
| 45° | 19878  |
| 50° | 11607  |
| 55° | 6060   |
| 60° | 2752   |
| 65° | 856    |
| 70° | 208    |
| 75° | 0      |
| 80° | 0      |
| 85° | 0      |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19878 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 161.3  | 11.8      |
| 10°-20°   | 307.4  | 22.5      |
| 20°-30°   | 322.4  | 23.6      |
| 30°-40°   | 307.5  | 22.5      |
| 40°-50°   | 198.5  | 14.5      |
| 50°-60°   | 61.6   | 4.5       |
| 60°-70°   | 9.0    | 0.7       |
| 70°-80°   | 0.5    | 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°    | 791.2  | 57.8      |
| 0°-40°    | 1098.7 | 80.3      |
| 0°-60°    | 1358.7 | 99.3      |
| 0°-90°    | 1368.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1368.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1942 |      |
| 5°  | 1808 | 161  |
| 15° | 1090 | 307  |
| 25° | 696  | 322  |
| 35° | 494  | 308  |
| 45° | 256  | 198  |
| 55° | 63   | 62   |
| 65° | 7    | 9    |
| 75° | 0    | 1    |
| 85° | 0    | 0    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1941.5 |
| 2.5°  | 1907.2 |
| 5°    | 1808.0 |
| 7.5°  | 1650.8 |
| 10°   | 1461.8 |
| 12.5° | 1264.8 |
| 15°   | 1090.4 |
| 17.5° | 954.2  |
| 20°   | 847.2  |
| 22.5° | 765.2  |
| 25°   | 696.5  |
| 27.5° | 638.4  |
| 30°   | 585.5  |
| 32.5° | 539.2  |
| 35°   | 494.3  |
| 37.5° | 449.4  |
| 40°   | 393.9  |
| 42.5° | 327.8  |
| 45°   | 256.4  |
| 47.5° | 190.3  |
| 50°   | 136.1  |
| 52.5° | 93.8   |
| 55°   | 63.4   |
| 57.5° | 41.0   |
| 60°   | 25.1   |
| 62.5° | 14.5   |
| 65°   | 6.6    |
| 67.5° | 2.6    |
| 70°   | 1.3    |
| 72.5° | 1.3    |
| 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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