

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: P641701

Luminaire Tested: ML5612LSVWFL97FS1E - 594SNB - 600LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641701  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-102)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 594SNB - 600LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 917.6 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.26  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

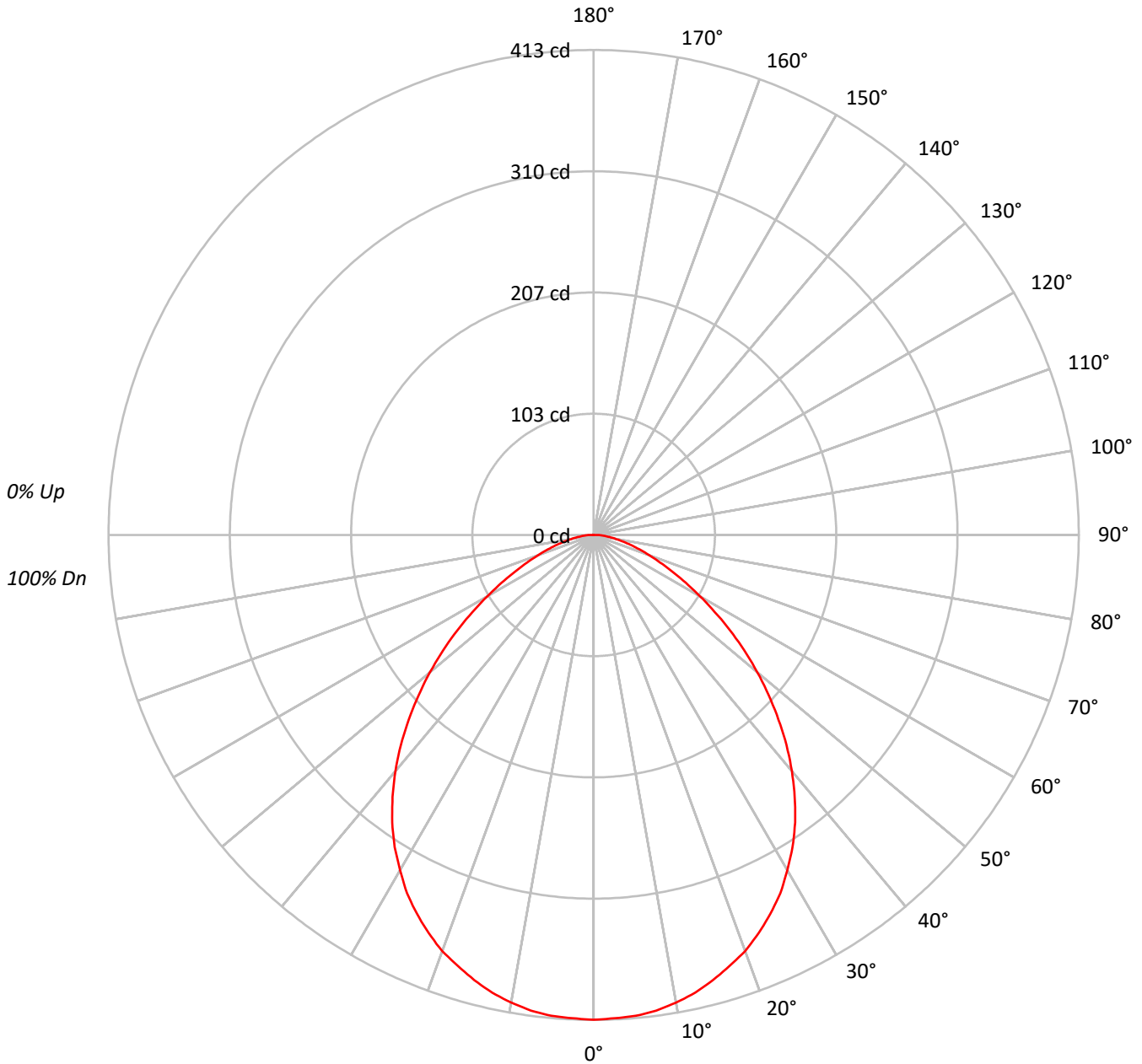
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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 |
| 1   | 110 | 106 | 102 | 99  | 108 | 104 | 100 | 97  | 100 | 97  | 94  | 96  | 93  | 91  | 92  | 90  | 89  | 87  |    |    | 87  |
| 2   | 101 | 94  | 88  | 83  | 99  | 92  | 87  | 82  | 89  | 84  | 80  | 85  | 82  | 78  | 83  | 79  | 76  | 74  |    |    | 74  |
| 3   | 93  | 84  | 76  | 70  | 91  | 82  | 75  | 70  | 79  | 73  | 69  | 77  | 72  | 67  | 74  | 70  | 66  | 64  |    |    | 64  |
| 4   | 86  | 75  | 67  | 61  | 84  | 74  | 66  | 60  | 71  | 65  | 60  | 69  | 63  | 59  | 67  | 62  | 58  | 56  |    |    | 56  |
| 5   | 80  | 68  | 59  | 53  | 78  | 67  | 59  | 53  | 65  | 58  | 52  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |    |    | 49  |
| 6   | 74  | 61  | 53  | 47  | 72  | 60  | 53  | 47  | 59  | 52  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 44  |    |    | 44  |
| 7   | 69  | 56  | 48  | 42  | 67  | 55  | 47  | 42  | 54  | 47  | 42  | 52  | 46  | 41  | 51  | 45  | 41  | 39  |    |    | 39  |
| 8   | 64  | 51  | 43  | 38  | 63  | 51  | 43  | 38  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 35  |    |    | 35  |
| 9   | 60  | 47  | 39  | 34  | 59  | 47  | 39  | 34  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 32  |    |    | 32  |
| 10  | 56  | 44  | 36  | 31  | 55  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 41  | 35  | 31  | 29  |    |    | 29  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 32595 |
| 5°  | 32584 |
| 10° | 32416 |
| 15° | 32077 |
| 20° | 31688 |
| 25° | 31008 |
| 30° | 30044 |
| 35° | 28814 |
| 40° | 27051 |
| 45° | 24851 |
| 50° | 22327 |
| 55° | 19530 |
| 60° | 16499 |
| 65° | 13804 |
| 70° | 11563 |
| 75° | 9852  |
| 80° | 8501  |
| 85° | 8423  |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24851 cd/sqm



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 39.0   | 4.3       |
| 10°-20°   | 110.7  | 12.1      |
| 20°-30°   | 163.7  | 17.8      |
| 30°-40°   | 186.3  | 20.3      |
| 40°-50°   | 171.4  | 18.7      |
| 50°-60°   | 126.9  | 13.8      |
| 60°-70°   | 74.3   | 8.1       |
| 70°-80°   | 34.8   | 3.8       |
| 80°-90°   | 10.4   | 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°    | 313.4  | 34.2      |
| 0°-40°    | 499.7  | 54.5      |
| 0°-60°    | 798.1  | 87.0      |
| 0°-90°    | 917.6  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 917.6  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 413 |      |
| 5°  | 411 | 39   |
| 15° | 392 | 111  |
| 25° | 356 | 164  |
| 35° | 299 | 186  |
| 45° | 223 | 171  |
| 55° | 142 | 127  |
| 65° | 74  | 74   |
| 75° | 32  | 35   |
| 85° | 9   | 10   |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 412.9 |
| 2.5°  | 412.0 |
| 5°    | 411.2 |
| 7.5°  | 408.6 |
| 10°   | 404.4 |
| 12.5° | 399.3 |
| 15°   | 392.5 |
| 17.5° | 384.8 |
| 20°   | 377.2 |
| 22.5° | 367.0 |
| 25°   | 356.0 |
| 27.5° | 344.1 |
| 30°   | 329.6 |
| 32.5° | 315.2 |
| 35°   | 299.0 |
| 37.5° | 281.2 |
| 40°   | 262.5 |
| 42.5° | 243.0 |
| 45°   | 222.6 |
| 47.5° | 202.2 |
| 50°   | 181.8 |
| 52.5° | 161.4 |
| 55°   | 141.9 |
| 57.5° | 122.3 |
| 60°   | 104.5 |
| 62.5° | 88.4  |
| 65°   | 73.9  |
| 67.5° | 61.2  |
| 70°   | 50.1  |
| 72.5° | 40.8  |
| 75°   | 32.3  |
| 77.5° | 24.6  |
| 80°   | 18.7  |
| 82.5° | 13.6  |
| 85°   | 9.3   |
| 87.5° | 5.9   |
| 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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