

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: P643273

Luminaire Tested: ML5615LSVWFL759FS1E - 692W - 1200LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643273  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-85)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 692W - 1200LM - 3500K  
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1461.9 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

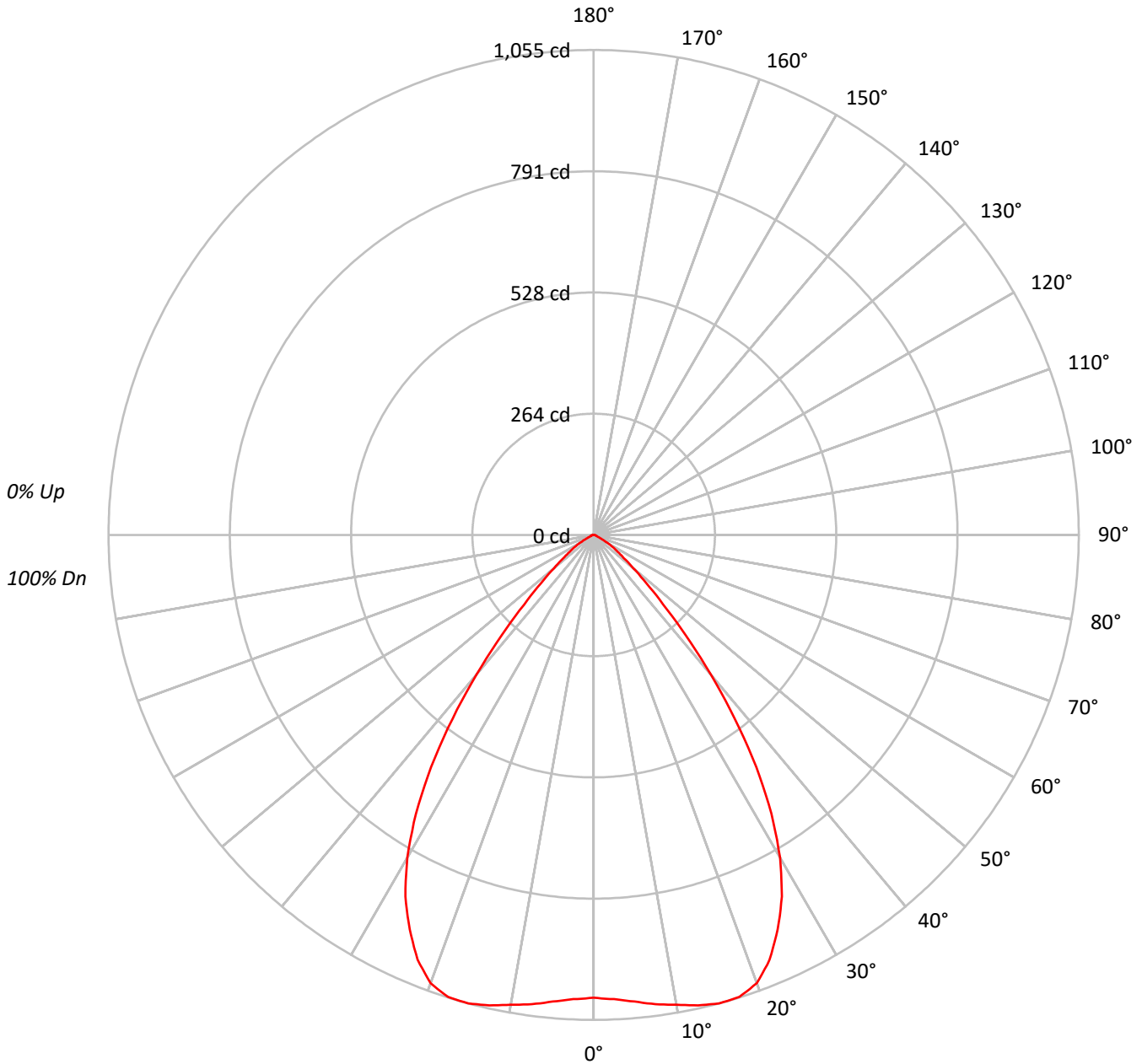
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P643273

CATALOG NUMBER: ML5615LSVWFL759FS1E - 692W - 1200LM - 3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P643273

CATALOG NUMBER: ML5615LSVWFL759FS1E - 692W - 1200LM - 3500K

**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 |    |    | 100 |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 100 | 100 | 98  | 97  | 96  | 95  | 94  | 92  |    |    | 92  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 106 | 101 | 96  | 92  | 104 | 99  | 95  | 91  | 96  | 92  | 89  | 93  | 90  | 87  | 90  | 88  | 86  | 84  |    |    | 84  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 100 | 93  | 87  | 83  | 98  | 91  | 86  | 82  | 89  | 84  | 81  | 86  | 82  | 79  | 84  | 81  | 78  | 76  |    |    | 76  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 94  | 85  | 79  | 74  | 92  | 84  | 78  | 74  | 82  | 77  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 70  |    |    | 70  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 88  | 79  | 72  | 68  | 87  | 78  | 72  | 67  | 76  | 71  | 67  | 74  | 70  | 66  | 73  | 69  | 65  | 64  |    |    | 64  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 83  | 73  | 66  | 62  | 82  | 72  | 66  | 61  | 71  | 65  | 61  | 69  | 64  | 61  | 68  | 64  | 60  | 58  |    |    | 58  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 78  | 68  | 61  | 56  | 77  | 67  | 61  | 56  | 66  | 60  | 56  | 65  | 60  | 56  | 63  | 59  | 55  | 54  |    |    | 54  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 74  | 63  | 57  | 52  | 73  | 63  | 56  | 52  | 62  | 56  | 52  | 60  | 55  | 51  | 59  | 55  | 51  | 50  |    |    | 50  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 52  | 48  | 58  | 52  | 48  | 57  | 51  | 48  | 56  | 51  | 47  | 46  |    |    | 46  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 66  | 55  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 48  | 44  | 53  | 48  | 44  | 52  | 48  | 44  | 43  |    |    | 43  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°    |
|-----|-------|
| 0°  | 55198 |
| 5°  | 56075 |
| 10° | 57764 |
| 15° | 59881 |
| 20° | 60538 |
| 25° | 57269 |
| 30° | 51299 |
| 35° | 41258 |
| 40° | 28324 |
| 45° | 16591 |
| 50° | 9578  |
| 55° | 6136  |
| 60° | 3662  |
| 65° | 1738  |
| 70° | 1074  |
| 75° | 1123  |
| 80° | 852   |
| 85° | 818   |

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16591 cd/sqm



TEST NUMBER: P643273

CATALOG NUMBER: ML5615LSVWFL759FS1E - 692W - 1200LM - 3500K

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 97.9   | 6.7       |
| 10°-20°   | 297.3  | 20.3      |
| 20°-30°   | 431.7  | 29.5      |
| 30°-40°   | 378.5  | 25.9      |
| 40°-50°   | 174.9  | 12.0      |
| 50°-60°   | 59.5   | 4.1       |
| 60°-70°   | 15.1   | 1.0       |
| 70°-80°   | 5.5    | 0.4       |
| 80°-90°   | 1.5    | 0.1       |
| 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°    | 827.0  | 56.6      |
| 0°-40°    | 1205.5 | 82.5      |
| 0°-60°    | 1439.9 | 98.5      |
| 0°-90°    | 1461.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1461.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1007 |      |
| 5°  | 1019 | 98   |
| 15° | 1055 | 297  |
| 25° | 947  | 432  |
| 35° | 616  | 379  |
| 45° | 214  | 175  |
| 55° | 64   | 59   |
| 65° | 13   | 15   |
| 75° | 5    | 5    |
| 85° | 1    | 1    |
| 90° | 0    |      |



TEST NUMBER: P643273

CATALOG NUMBER: ML5615LSVWFL759FS1E - 692W - 1200LM - 3500K

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1006.9 |
| 2.5°  | 1010.9 |
| 5°    | 1019.0 |
| 7.5°  | 1029.7 |
| 10°   | 1037.7 |
| 12.5° | 1048.4 |
| 15°   | 1055.1 |
| 17.5° | 1053.7 |
| 20°   | 1037.7 |
| 22.5° | 1000.2 |
| 25°   | 946.8  |
| 27.5° | 886.6  |
| 30°   | 810.4  |
| 32.5° | 719.4  |
| 35°   | 616.5  |
| 37.5° | 504.1  |
| 40°   | 395.8  |
| 42.5° | 295.5  |
| 45°   | 214.0  |
| 47.5° | 155.1  |
| 50°   | 112.3  |
| 52.5° | 82.9   |
| 55°   | 64.2   |
| 57.5° | 48.1   |
| 60°   | 33.4   |
| 62.5° | 20.1   |
| 65°   | 13.4   |
| 67.5° | 8.0    |
| 70°   | 6.7    |
| 72.5° | 6.7    |
| 75°   | 5.3    |
| 77.5° | 4.0    |
| 80°   | 2.7    |
| 82.5° | 2.7    |
| 85°   | 1.3    |
| 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

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

Scaled Data Report





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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)