

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: P643153

Luminaire Tested: ML5615LSVWFL759FS1E - 593WB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-74)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 593WB - 1200LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1437.9 lumens
Efficiency: N/A
Efficacy: 107.3 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

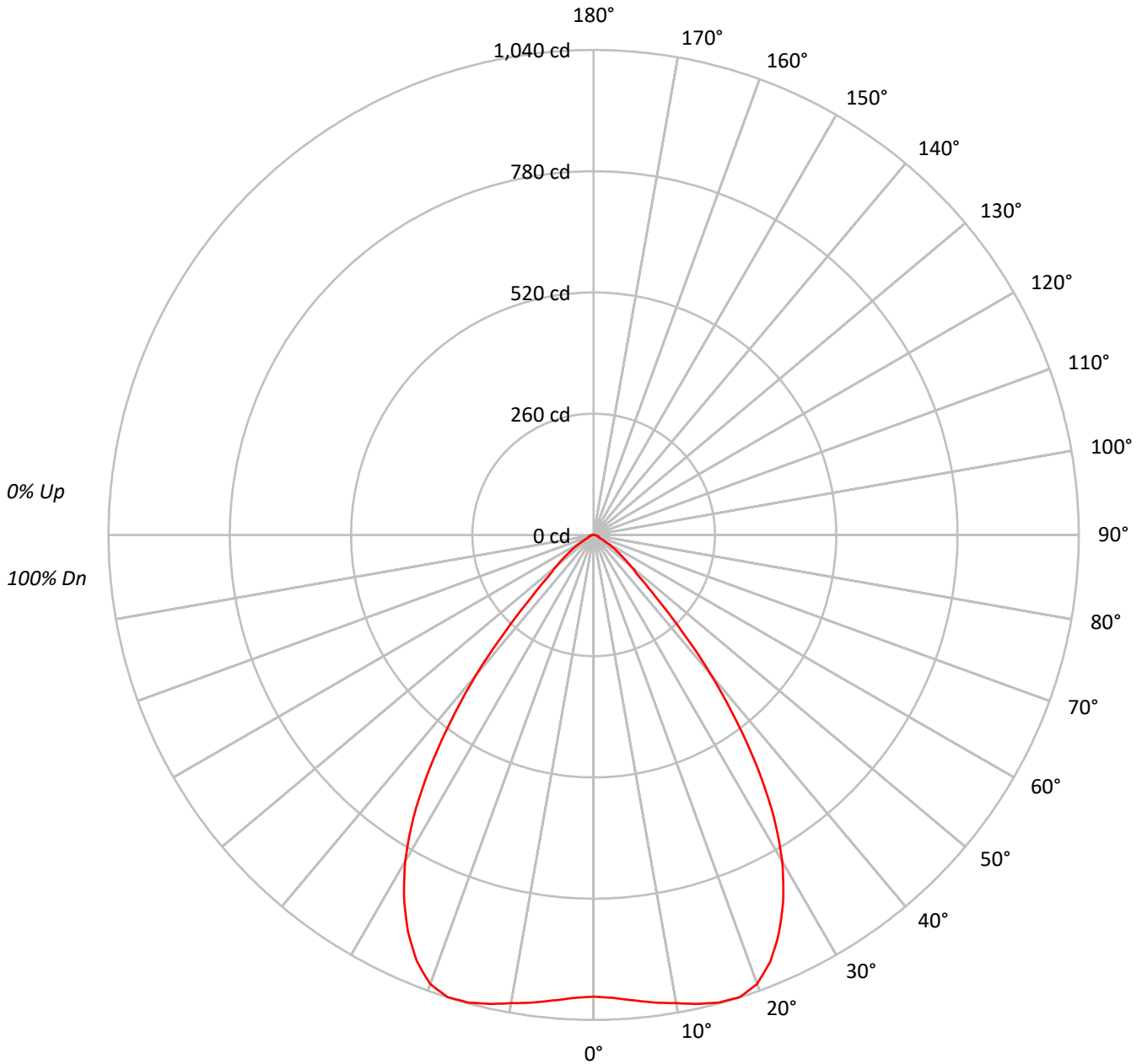
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 99 | 100 | 98 | 96 | 96 | 95 | 94 | 92 | | | 92 |
| 2 | 106 | 101 | 96 | 92 | 104 | 99 | 95 | 91 | 96 | 92 | 89 | 93 | 90 | 87 | 90 | 88 | 85 | 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 | 59 | | | 59 |
| 7 | 78 | 68 | 61 | 57 | 77 | 67 | 61 | 56 | 66 | 60 | 56 | 65 | 60 | 56 | 64 | 59 | 55 | 54 | | | 54 |
| 8 | 74 | 63 | 57 | 52 | 73 | 63 | 56 | 52 | 62 | 56 | 52 | 61 | 55 | 51 | 60 | 55 | 51 | 50 | | | 50 |
| 9 | 70 | 59 | 53 | 48 | 69 | 59 | 52 | 48 | 58 | 52 | 48 | 57 | 51 | 48 | 56 | 51 | 48 | 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° | 78159 |
| 5° | 79409 |
| 10° | 81722 |
| 15° | 84848 |
| 20° | 86091 |
| 25° | 81937 |
| 30° | 73688 |
| 35° | 59363 |
| 40° | 40344 |
| 45° | 20888 |
| 50° | 12797 |
| 55° | 8464 |
| 60° | 4215 |
| 65° | 2503 |
| 70° | 2470 |
| 75° | 2440 |
| 80° | 2409 |
| 85° | 2446 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20888 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.2 | 6.7 |
| 10°-20° | 292.8 | 20.4 |
| 20°-30° | 428.4 | 29.8 |
| 30°-40° | 377.8 | 26.3 |
| 40°-50° | 160.0 | 11.1 |
| 50°-60° | 55.7 | 3.9 |
| 60°-70° | 15.5 | 1.1 |
| 70°-80° | 8.5 | 0.6 |
| 80°-90° | 2.9 | 0.2 |
| 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° | 817.5 | 56.9 |
| 0°-40° | 1195.3 | 83.1 |
| 0°-60° | 1411.0 | 98.1 |
| 0°-90° | 1437.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1437.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 990 | |
| 5° | 1002 | 96 |
| 15° | 1038 | 293 |
| 25° | 941 | 428 |
| 35° | 616 | 378 |
| 45° | 187 | 160 |
| 55° | 62 | 56 |
| 65° | 13 | 15 |
| 75° | 8 | 8 |
| 85° | 3 | 3 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 990.1 |
| 2.5° | 994.1 |
| 5° | 1002.1 |
| 7.5° | 1011.5 |
| 10° | 1019.5 |
| 12.5° | 1030.2 |
| 15° | 1038.2 |
| 17.5° | 1039.5 |
| 20° | 1024.8 |
| 22.5° | 990.1 |
| 25° | 940.7 |
| 27.5° | 880.5 |
| 30° | 808.4 |
| 32.5° | 720.2 |
| 35° | 616.0 |
| 37.5° | 502.4 |
| 40° | 391.5 |
| 42.5° | 277.9 |
| 45° | 187.1 |
| 47.5° | 129.6 |
| 50° | 104.2 |
| 52.5° | 80.2 |
| 55° | 61.5 |
| 57.5° | 44.1 |
| 60° | 26.7 |
| 62.5° | 18.7 |
| 65° | 13.4 |
| 67.5° | 12.0 |
| 70° | 10.7 |
| 72.5° | 9.4 |
| 75° | 8.0 |
| 77.5° | 6.7 |
| 80° | 5.3 |
| 82.5° | 4.0 |
| 85° | 2.7 |
| 87.5° | 1.3 |
| 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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— 0°-180°

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