

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: P643258

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

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643258
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: ML5615LSVWFL759FS1E - 692SC - 1200LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 6" SPECULAR CLEAR TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

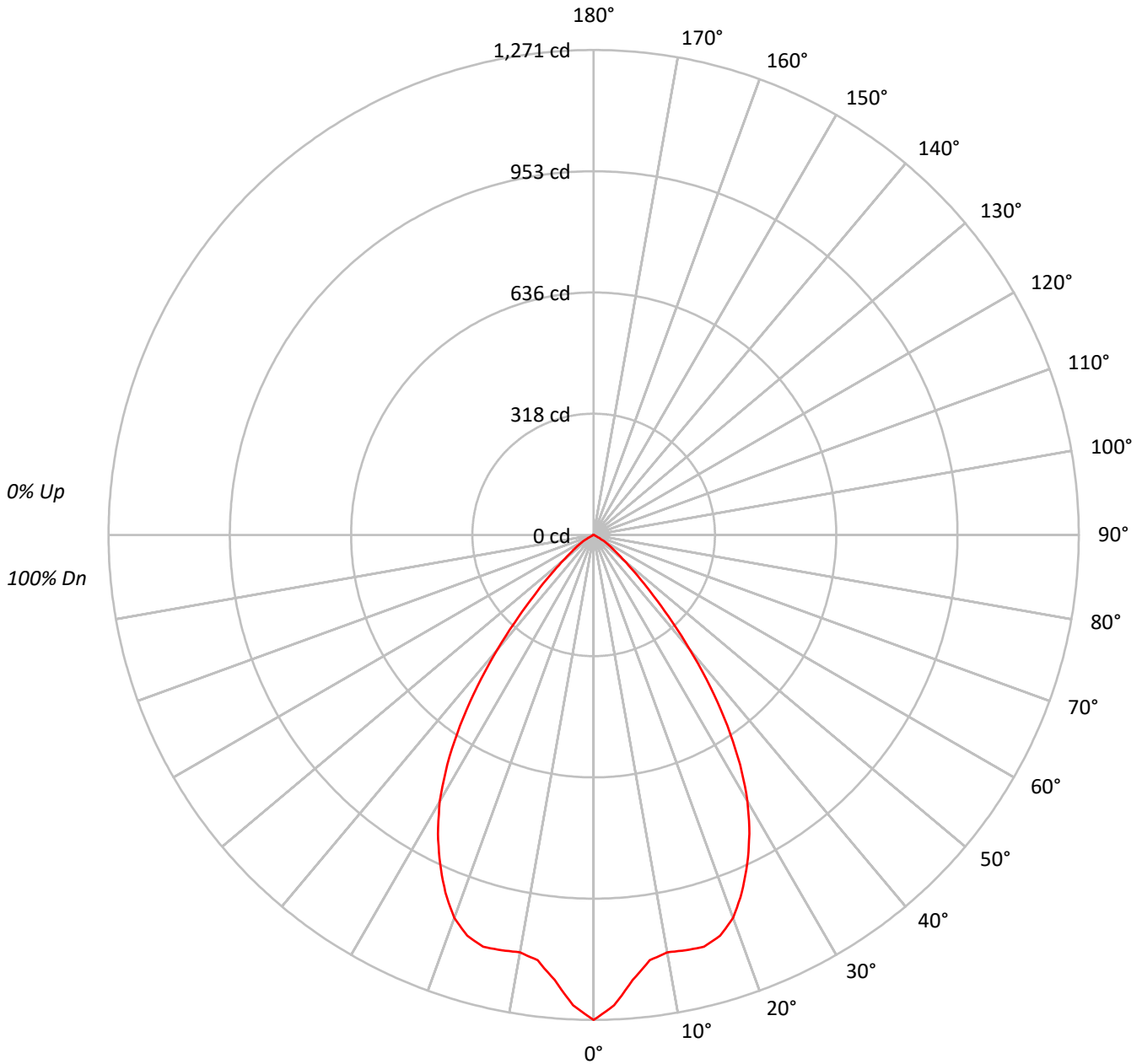
Lumens per Lamp: N/A
Luminaire Lumens: 1461.9 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.01
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 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° | 69687 |
| 5° | 64440 |
| 10° | 61834 |
| 15° | 63423 |
| 20° | 62305 |
| 25° | 57572 |
| 30° | 51021 |
| 35° | 40883 |
| 40° | 28031 |
| 45° | 16164 |
| 50° | 8776 |
| 55° | 5238 |
| 60° | 2785 |
| 65° | 687 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16164 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 109.9 | 7.5 |
| 10°-20° | 312.9 | 21.4 |
| 20°-30° | 434.7 | 29.7 |
| 30°-40° | 375.7 | 25.7 |
| 40°-50° | 169.8 | 11.6 |
| 50°-60° | 51.2 | 3.5 |
| 60°-70° | 7.6 | 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° | 857.5 | 58.7 |
| 0°-40° | 1233.2 | 84.4 |
| 0°-60° | 1454.3 | 99.5 |
| 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° | 1271 | |
| 5° | 1171 | 110 |
| 15° | 1118 | 313 |
| 25° | 952 | 435 |
| 35° | 611 | 376 |
| 45° | 208 | 170 |
| 55° | 55 | 51 |
| 65° | 5 | 8 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1271.2 |
| 2.5° | 1233.8 |
| 5° | 1171.0 |
| 7.5° | 1124.2 |
| 10° | 1110.8 |
| 12.5° | 1114.8 |
| 15° | 1117.5 |
| 17.5° | 1101.5 |
| 20° | 1068.0 |
| 22.5° | 1014.6 |
| 25° | 951.8 |
| 27.5° | 883.6 |
| 30° | 806.0 |
| 32.5° | 713.8 |
| 35° | 610.9 |
| 37.5° | 501.3 |
| 40° | 391.7 |
| 42.5° | 290.1 |
| 45° | 208.5 |
| 47.5° | 147.0 |
| 50° | 102.9 |
| 52.5° | 73.5 |
| 55° | 54.8 |
| 57.5° | 38.8 |
| 60° | 25.4 |
| 62.5° | 12.0 |
| 65° | 5.3 |
| 67.5° | 1.3 |
| 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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— 0°-180°

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