

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



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: P642877

Luminaire Tested: ML5615LSNFL259FS1E - 596WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 596WB - 900LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1107.7 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

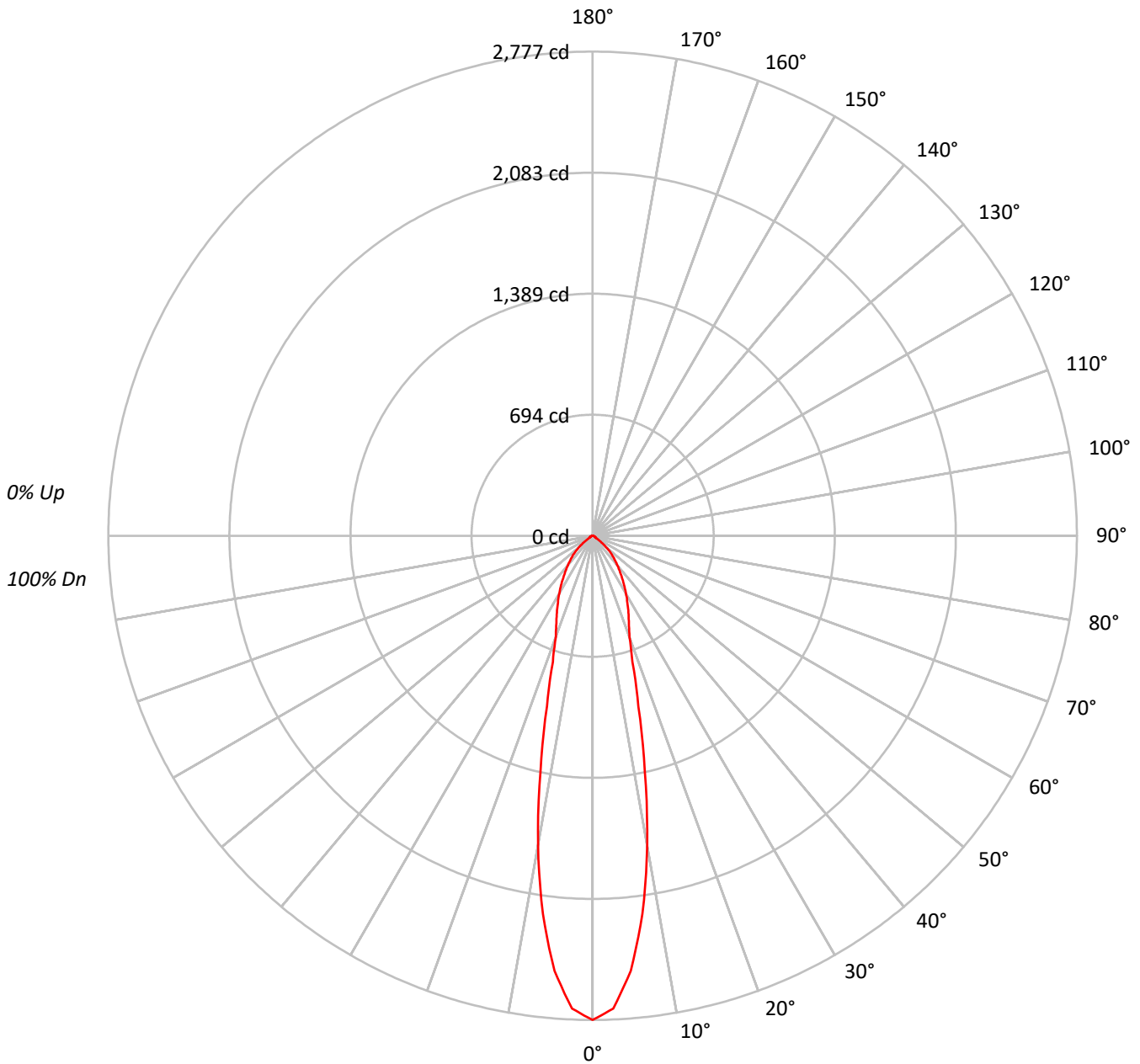
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | | | |
| 1 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 93 | | | |
| 2 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 97 | 94 | 92 | 94 | 92 | 90 | 92 | 90 | 88 | 86 | | | |
| 3 | 102 | 95 | 90 | 86 | 100 | 94 | 89 | 86 | 91 | 87 | 84 | 89 | 86 | 83 | 87 | 84 | 82 | 80 | | | |
| 4 | 97 | 89 | 84 | 79 | 95 | 88 | 83 | 79 | 86 | 81 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 75 | | | |
| 5 | 92 | 84 | 78 | 73 | 90 | 83 | 77 | 73 | 81 | 76 | 72 | 79 | 75 | 72 | 78 | 74 | 71 | 70 | | | |
| 6 | 88 | 79 | 73 | 69 | 86 | 78 | 72 | 68 | 76 | 72 | 68 | 75 | 71 | 67 | 74 | 70 | 67 | 65 | | | |
| 7 | 84 | 74 | 68 | 64 | 82 | 74 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 63 | 70 | 66 | 63 | 62 | | | |
| 8 | 80 | 71 | 65 | 61 | 79 | 70 | 64 | 60 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 58 | | | |
| 9 | 76 | 67 | 61 | 57 | 75 | 67 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 55 | | | |
| 10 | 73 | 64 | 58 | 54 | 72 | 63 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 61 | 57 | 54 | 53 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 219211 |
| 5° | 198518 |
| 10° | 144574 |
| 15° | 82821 |
| 20° | 51774 |
| 25° | 42297 |
| 30° | 34884 |
| 35° | 28255 |
| 40° | 22692 |
| 45° | 18030 |
| 50° | 12134 |
| 55° | 5519 |
| 60° | 3079 |
| 65° | 2877 |
| 70° | 2377 |
| 75° | 2196 |
| 80° | 2318 |
| 85° | 2808 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18030 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 216.5 | 19.5 |
| 10°-20° | 291.8 | 26.3 |
| 20°-30° | 223.5 | 20.2 |
| 30°-40° | 184.1 | 16.6 |
| 40°-50° | 123.2 | 11.1 |
| 50°-60° | 42.8 | 3.9 |
| 60°-70° | 14.9 | 1.3 |
| 70°-80° | 8.0 | 0.7 |
| 80°-90° | 2.9 | 0.3 |
| 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° | 731.8 | 66.1 |
| 0°-40° | 915.9 | 82.7 |
| 0°-60° | 1081.9 | 97.7 |
| 0°-90° | 1107.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1107.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2777 | |
| 5° | 2505 | 216 |
| 15° | 1013 | 292 |
| 25° | 486 | 224 |
| 35° | 293 | 184 |
| 45° | 162 | 123 |
| 55° | 40 | 43 |
| 65° | 15 | 15 |
| 75° | 7 | 8 |
| 85° | 3 | 3 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2776.9 |
| 2.5° | 2714.1 |
| 5° | 2505.2 |
| 7.5° | 2188.4 |
| 10° | 1803.6 |
| 12.5° | 1382.8 |
| 15° | 1013.4 |
| 17.5° | 758.3 |
| 20° | 616.3 |
| 22.5° | 542.2 |
| 25° | 485.6 |
| 27.5° | 431.1 |
| 30° | 382.7 |
| 32.5° | 336.4 |
| 35° | 293.2 |
| 37.5° | 254.1 |
| 40° | 220.2 |
| 42.5° | 189.3 |
| 45° | 161.5 |
| 47.5° | 132.7 |
| 50° | 98.8 |
| 52.5° | 70.0 |
| 55° | 40.1 |
| 57.5° | 24.7 |
| 60° | 19.5 |
| 62.5° | 17.5 |
| 65° | 15.4 |
| 67.5° | 12.3 |
| 70° | 10.3 |
| 72.5° | 8.2 |
| 75° | 7.2 |
| 77.5° | 7.2 |
| 80° | 5.1 |
| 82.5° | 4.1 |
| 85° | 3.1 |
| 87.5° | 1.0 |
| 90° | 0.0 |

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)