

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: P642178

Luminaire Tested: ML5612LSWFL5597FS1E - 693SNB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-65)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 693SNB - 1200LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1562.9 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

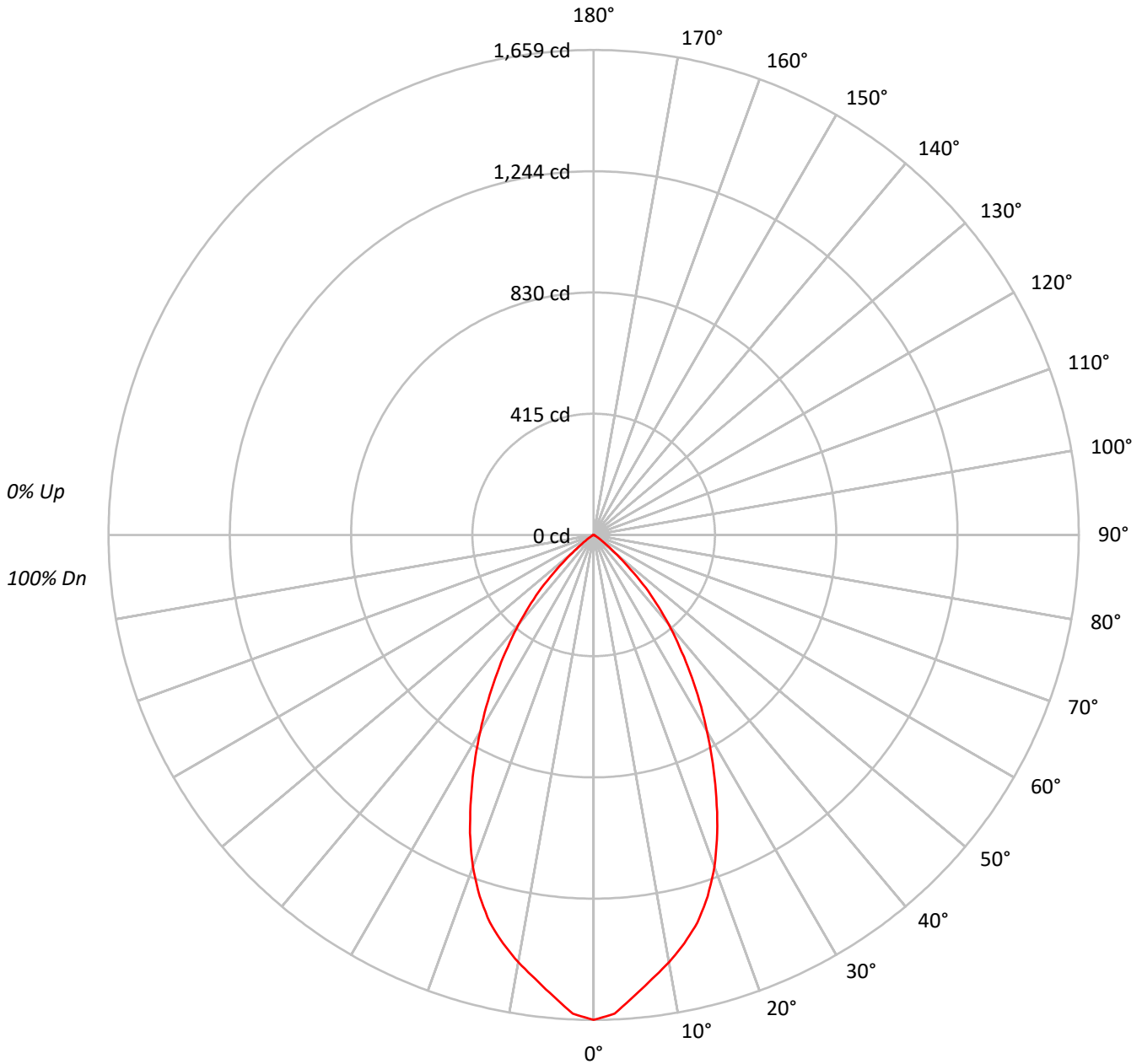
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 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 | 94 | 105 | 100 | 97 | 93 | 97 | 94 | 91 | | 94 | 92 | 89 | | 91 | 89 | 87 | 86 |
| 3 | 101 | 95 | 89 | 85 | 99 | 93 | 88 | 85 | 91 | 87 | 83 | | 88 | 85 | 82 | | 86 | 83 | 81 | 79 |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 81 | 77 | 85 | 80 | 76 | | 83 | 79 | 75 | | 81 | 77 | 74 | 73 |
| 5 | 91 | 82 | 76 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | | 77 | 73 | 69 | | 76 | 72 | 69 | 67 |
| 6 | 86 | 76 | 70 | 65 | 84 | 75 | 70 | 65 | 74 | 69 | 65 | | 72 | 68 | 64 | | 71 | 67 | 64 | 62 |
| 7 | 81 | 71 | 65 | 60 | 80 | 71 | 65 | 60 | 69 | 64 | 60 | | 68 | 63 | 60 | | 67 | 63 | 59 | 58 |
| 8 | 77 | 67 | 61 | 56 | 76 | 66 | 60 | 56 | 65 | 60 | 56 | | 64 | 59 | 56 | | 63 | 59 | 55 | 54 |
| 9 | 73 | 63 | 57 | 52 | 72 | 62 | 56 | 52 | 61 | 56 | 52 | | 60 | 55 | 52 | | 60 | 55 | 52 | 50 |
| 10 | 69 | 59 | 53 | 49 | 68 | 59 | 53 | 49 | 58 | 52 | 49 | | 57 | 52 | 49 | | 56 | 52 | 48 | 47 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 90941 |
| 5° | 87139 |
| 10° | 82625 |
| 15° | 77901 |
| 20° | 70467 |
| 25° | 60052 |
| 30° | 49058 |
| 35° | 38407 |
| 40° | 28482 |
| 45° | 18514 |
| 50° | 7983 |
| 55° | 2934 |
| 60° | 1381 |
| 65° | 363 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18514 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 148.1 | 9.5 |
| 10°-20° | 382.0 | 24.4 |
| 20°-30° | 453.6 | 29.0 |
| 30°-40° | 359.0 | 23.0 |
| 40°-50° | 182.2 | 11.7 |
| 50°-60° | 34.1 | 2.2 |
| 60°-70° | 3.9 | 0.3 |
| 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° | 983.7 | 62.9 |
| 0°-40° | 1342.7 | 85.9 |
| 0°-60° | 1559.0 | 99.7 |
| 0°-90° | 1562.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1562.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1659 | |
| 5° | 1584 | 148 |
| 15° | 1373 | 382 |
| 25° | 993 | 454 |
| 35° | 574 | 359 |
| 45° | 239 | 182 |
| 55° | 31 | 34 |
| 65° | 3 | 4 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1658.9 |
| 2.5° | 1639.3 |
| 5° | 1583.5 |
| 7.5° | 1531.8 |
| 10° | 1484.3 |
| 12.5° | 1431.3 |
| 15° | 1372.6 |
| 17.5° | 1295.8 |
| 20° | 1207.9 |
| 22.5° | 1104.5 |
| 25° | 992.8 |
| 27.5° | 882.5 |
| 30° | 775.0 |
| 32.5° | 673.1 |
| 35° | 573.9 |
| 37.5° | 481.7 |
| 40° | 398.0 |
| 42.5° | 317.0 |
| 45° | 238.8 |
| 47.5° | 156.4 |
| 50° | 93.6 |
| 52.5° | 50.3 |
| 55° | 30.7 |
| 57.5° | 20.9 |
| 60° | 12.6 |
| 62.5° | 5.6 |
| 65° | 2.8 |
| 67.5° | 1.4 |
| 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 |

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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)