

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: P640997

Luminaire Tested: ML5612LSNFL2597FS1E - 593WB - 600LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 593WB - 600LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 913.2 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

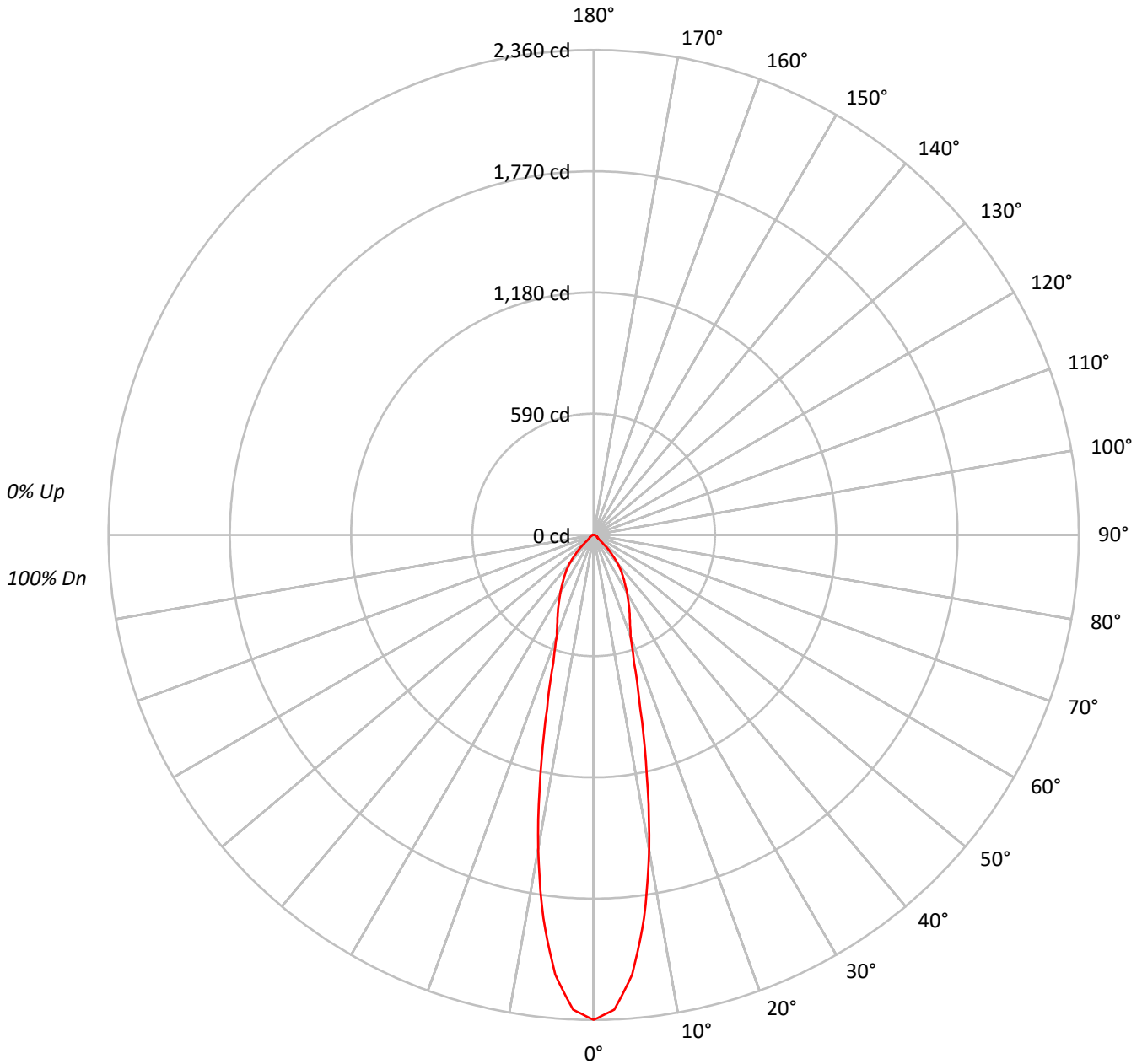
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| 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 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 93 | | | 93 | | | | | | | | | | | | | | | | |
| 2 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 86 | | | 86 | | | | | | | | | | | | | | | | |
| 3 | 102 | 96 | 91 | 87 | 100 | 94 | 90 | 86 | 92 | 88 | 85 | 89 | 86 | 83 | 87 | 84 | 82 | 81 | | | 81 | | | | | | | | | | | | | | | | |
| 4 | 97 | 90 | 84 | 80 | 96 | 89 | 84 | 80 | 87 | 82 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 75 | | | 75 | | | | | | | | | | | | | | | | |
| 5 | 93 | 85 | 79 | 75 | 91 | 84 | 78 | 74 | 82 | 77 | 74 | 80 | 76 | 73 | 79 | 75 | 72 | 71 | | | 71 | | | | | | | | | | | | | | | | |
| 6 | 89 | 80 | 74 | 70 | 87 | 79 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 69 | 75 | 71 | 68 | 67 | | | 67 | | | | | | | | | | | | | | | | |
| 7 | 85 | 76 | 70 | 66 | 83 | 75 | 69 | 66 | 74 | 69 | 65 | 72 | 68 | 65 | 71 | 67 | 64 | 63 | | | 63 | | | | | | | | | | | | | | | | |
| 8 | 81 | 72 | 66 | 62 | 80 | 71 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 61 | 68 | 64 | 61 | 60 | | | 60 | | | | | | | | | | | | | | | | |
| 9 | 78 | 68 | 63 | 59 | 77 | 68 | 62 | 59 | 67 | 62 | 59 | 66 | 62 | 58 | 65 | 61 | 58 | 57 | | | 57 | | | | | | | | | | | | | | | | |
| 10 | 74 | 65 | 60 | 56 | 74 | 65 | 60 | 56 | 64 | 59 | 56 | 63 | 59 | 56 | 63 | 58 | 56 | 54 | | | 54 | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° |
|-----|--------|
| 0° | 186277 |
| 5° | 170205 |
| 10° | 124671 |
| 15° | 71534 |
| 20° | 44121 |
| 25° | 35903 |
| 30° | 29515 |
| 35° | 24034 |
| 40° | 18941 |
| 45° | 11633 |
| 50° | 4298 |
| 55° | 3248 |
| 60° | 3047 |
| 65° | 2783 |
| 70° | 2839 |
| 75° | 2928 |
| 80° | 2773 |
| 85° | 3170 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11633 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 185.7 | 20.3 |
| 10°-20° | 251.5 | 27.5 |
| 20°-30° | 189.8 | 20.8 |
| 30°-40° | 156.2 | 17.1 |
| 40°-50° | 79.6 | 8.7 |
| 50°-60° | 22.3 | 2.4 |
| 60°-70° | 15.2 | 1.7 |
| 70°-80° | 9.8 | 1.1 |
| 80°-90° | 3.2 | 0.4 |
| 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° | 626.9 | 68.7 |
| 0°-40° | 783.2 | 85.8 |
| 0°-60° | 885.0 | 96.9 |
| 0°-90° | 913.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 913.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2360 | |
| 5° | 2148 | 186 |
| 15° | 875 | 251 |
| 25° | 412 | 190 |
| 35° | 249 | 156 |
| 45° | 104 | 80 |
| 55° | 24 | 22 |
| 65° | 15 | 15 |
| 75° | 10 | 10 |
| 85° | 4 | 3 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2359.7 |
| 2.5° | 2311.6 |
| 5° | 2147.9 |
| 7.5° | 1879.2 |
| 10° | 1555.3 |
| 12.5° | 1195.6 |
| 15° | 875.3 |
| 17.5° | 652.1 |
| 20° | 525.2 |
| 22.5° | 460.4 |
| 25° | 412.2 |
| 27.5° | 365.9 |
| 30° | 323.8 |
| 32.5° | 284.5 |
| 35° | 249.4 |
| 37.5° | 217.9 |
| 40° | 183.8 |
| 42.5° | 141.8 |
| 45° | 104.2 |
| 47.5° | 63.9 |
| 50° | 35.0 |
| 52.5° | 27.1 |
| 55° | 23.6 |
| 57.5° | 21.9 |
| 60° | 19.3 |
| 62.5° | 17.5 |
| 65° | 14.9 |
| 67.5° | 13.1 |
| 70° | 12.3 |
| 72.5° | 10.5 |
| 75° | 9.6 |
| 77.5° | 7.9 |
| 80° | 6.1 |
| 82.5° | 4.4 |
| 85° | 3.5 |
| 87.5° | 0.9 |
| 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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Scaled Data Report



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