

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: P641691

Luminaire Tested: ML5612LSVWFL97FS1E - 593WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-97)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 593WB - 900LM - 2700K
Description: ML56 RR, MILKY OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

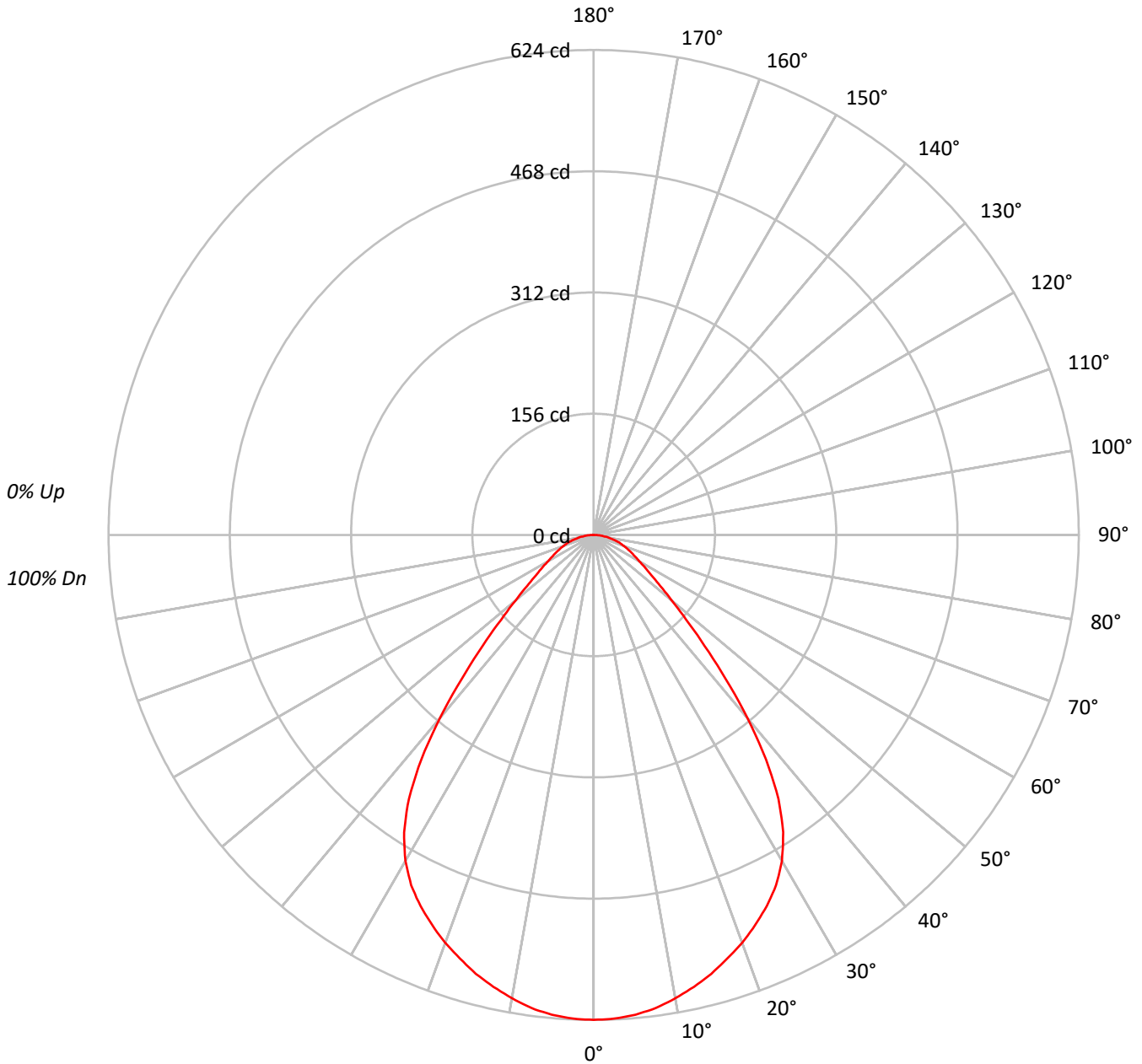
Lumens per Lamp: N/A
Luminaire Lumens: 1056.9 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): 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 | | | | | | | | | | | | | | | | | | | |
| 1 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99 | 101 | 99 | 96 | 97 | 95 | 93 | 94 | 92 | 91 | 89 | | | | | | | | | | | | | | | | | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 92 | 87 | 84 | 88 | 85 | 82 | 86 | 83 | 80 | 78 | | | | | | | | | | | | | | | | | | | |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 83 | 78 | 74 | 81 | 76 | 73 | 78 | 75 | 71 | 69 | | | | | | | | | | | | | | | | | | | |
| 4 | 90 | 80 | 72 | 67 | 87 | 78 | 72 | 66 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 67 | 64 | 62 | | | | | | | | | | | | | | | | | | | |
| 5 | 84 | 73 | 65 | 60 | 82 | 72 | 65 | 59 | 70 | 63 | 59 | 68 | 62 | 58 | 66 | 61 | 58 | 56 | | | | | | | | | | | | | | | | | | | |
| 6 | 78 | 67 | 59 | 54 | 76 | 66 | 59 | 53 | 64 | 58 | 53 | 63 | 57 | 53 | 61 | 56 | 52 | 50 | | | | | | | | | | | | | | | | | | | |
| 7 | 73 | 61 | 54 | 49 | 72 | 61 | 54 | 48 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 51 | 48 | 46 | | | | | | | | | | | | | | | | | | | |
| 8 | 69 | 57 | 49 | 44 | 67 | 56 | 49 | 44 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 47 | 43 | 42 | | | | | | | | | | | | | | | | | | | |
| 9 | 65 | 53 | 45 | 41 | 63 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 40 | 38 | | | | | | | | | | | | | | | | | | | |
| 10 | 61 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 49259 |
| 5° | 49099 |
| 10° | 48528 |
| 15° | 47785 |
| 20° | 46918 |
| 25° | 45894 |
| 30° | 44145 |
| 35° | 39945 |
| 40° | 31698 |
| 45° | 22529 |
| 50° | 16076 |
| 55° | 12455 |
| 60° | 10673 |
| 65° | 9993 |
| 70° | 9579 |
| 75° | 9303 |
| 80° | 8910 |
| 85° | 7880 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22529 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.7 | 5.6 |
| 10°-20° | 164.7 | 15.6 |
| 20°-30° | 242.0 | 22.9 |
| 30°-40° | 253.6 | 24.0 |
| 40°-50° | 159.5 | 15.1 |
| 50°-60° | 83.9 | 7.9 |
| 60°-70° | 53.2 | 5.0 |
| 70°-80° | 31.9 | 3.0 |
| 80°-90° | 9.5 | 0.9 |
| 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° | 465.4 | 44.0 |
| 0°-40° | 719.0 | 68.0 |
| 0°-60° | 962.3 | 91.0 |
| 0°-90° | 1056.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1056.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 624 | |
| 5° | 620 | 59 |
| 15° | 585 | 165 |
| 25° | 527 | 242 |
| 35° | 414 | 254 |
| 45° | 202 | 159 |
| 55° | 90 | 84 |
| 65° | 54 | 53 |
| 75° | 30 | 32 |
| 85° | 9 | 9 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 624.0 |
| 2.5° | 622.9 |
| 5° | 619.6 |
| 7.5° | 614.1 |
| 10° | 605.4 |
| 12.5° | 595.6 |
| 15° | 584.7 |
| 17.5° | 571.6 |
| 20° | 558.5 |
| 22.5° | 543.2 |
| 25° | 526.9 |
| 27.5° | 508.3 |
| 30° | 484.3 |
| 32.5° | 453.8 |
| 35° | 414.5 |
| 37.5° | 364.3 |
| 40° | 307.6 |
| 42.5° | 250.9 |
| 45° | 201.8 |
| 47.5° | 161.4 |
| 50° | 130.9 |
| 52.5° | 108.0 |
| 55° | 90.5 |
| 57.5° | 78.5 |
| 60° | 67.6 |
| 62.5° | 60.0 |
| 65° | 53.5 |
| 67.5° | 46.9 |
| 70° | 41.5 |
| 72.5° | 36.0 |
| 75° | 30.5 |
| 77.5° | 24.0 |
| 80° | 19.6 |
| 82.5° | 13.1 |
| 85° | 8.7 |
| 87.5° | 3.3 |
| 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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Scaled Data Report



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