

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: P641685

Luminaire Tested: ML5612LSVWFL97FS1E - 593WB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641685
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 - 1200LM - 5000K
Description: ML56 RR, MILKY OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

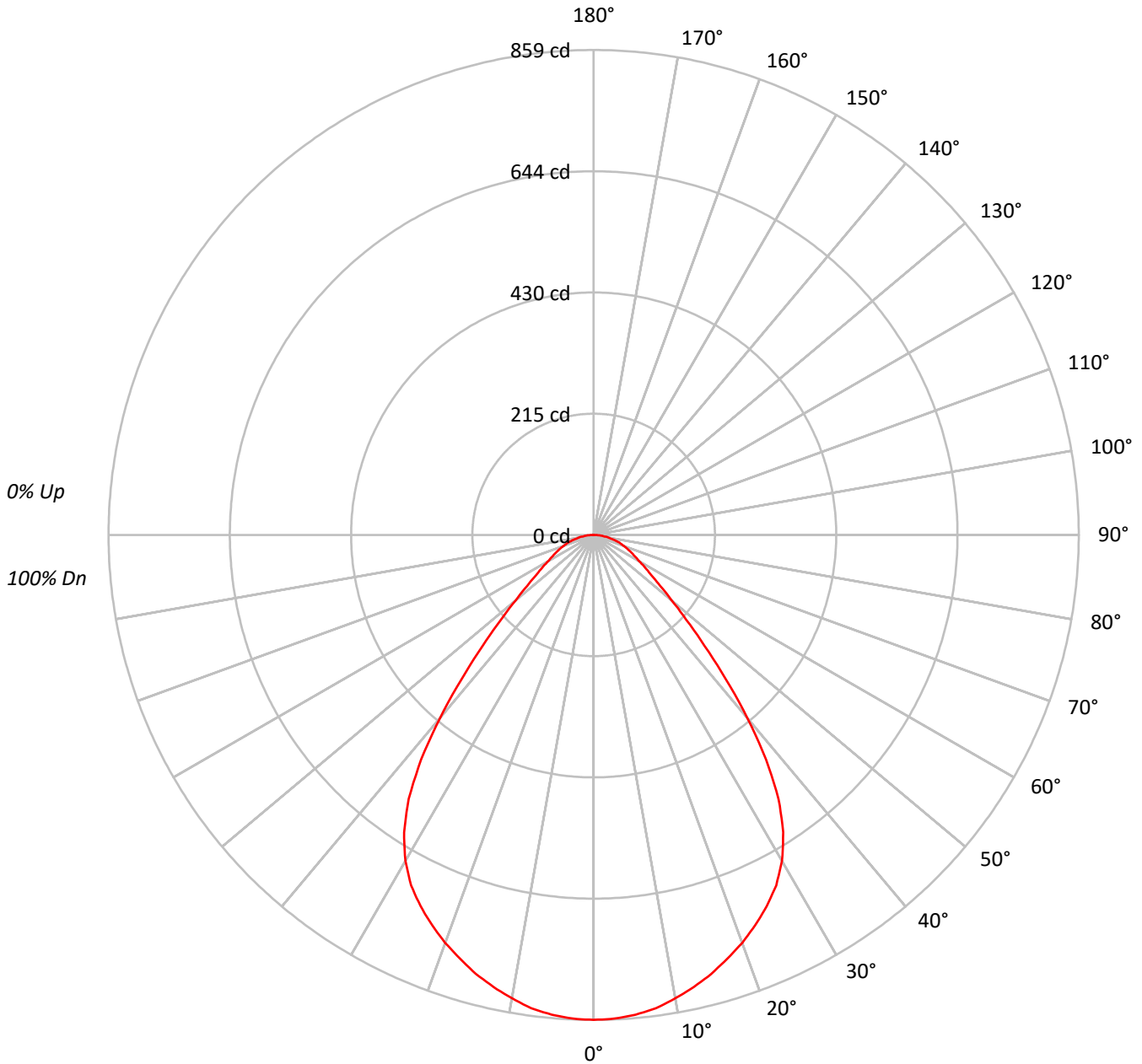
Lumens per Lamp: N/A
Luminaire Lumens: 1455.1 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | | | | | | | | | |
| 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 | 44 | 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° | 67810 |
| 5° | 67594 |
| 10° | 66812 |
| 15° | 65789 |
| 20° | 64593 |
| 25° | 63184 |
| 30° | 60781 |
| 35° | 54998 |
| 40° | 43642 |
| 45° | 31013 |
| 50° | 22130 |
| 55° | 17149 |
| 60° | 14699 |
| 65° | 13748 |
| 70° | 13179 |
| 75° | 12810 |
| 80° | 12274 |
| 85° | 10869 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31013 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 80.8 | 5.6 |
| 10°-20° | 226.8 | 15.6 |
| 20°-30° | 333.2 | 22.9 |
| 30°-40° | 349.1 | 24.0 |
| 40°-50° | 219.6 | 15.1 |
| 50°-60° | 115.5 | 7.9 |
| 60°-70° | 73.2 | 5.0 |
| 70°-80° | 44.0 | 3.0 |
| 80°-90° | 13.1 | 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° | 640.8 | 44.0 |
| 0°-40° | 989.9 | 68.0 |
| 0°-60° | 1324.9 | 91.1 |
| 0°-90° | 1455.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1455.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 859 | |
| 5° | 853 | 81 |
| 15° | 805 | 227 |
| 25° | 725 | 333 |
| 35° | 571 | 349 |
| 45° | 278 | 220 |
| 55° | 125 | 115 |
| 65° | 74 | 73 |
| 75° | 42 | 44 |
| 85° | 12 | 13 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 859.0 |
| 2.5° | 857.5 |
| 5° | 853.0 |
| 7.5° | 845.5 |
| 10° | 833.5 |
| 12.5° | 820.0 |
| 15° | 805.0 |
| 17.5° | 786.9 |
| 20° | 768.9 |
| 22.5° | 747.9 |
| 25° | 725.4 |
| 27.5° | 699.8 |
| 30° | 666.8 |
| 32.5° | 624.7 |
| 35° | 570.7 |
| 37.5° | 501.6 |
| 40° | 423.5 |
| 42.5° | 345.4 |
| 45° | 277.8 |
| 47.5° | 222.3 |
| 50° | 180.2 |
| 52.5° | 148.7 |
| 55° | 124.6 |
| 57.5° | 108.1 |
| 60° | 93.1 |
| 62.5° | 82.6 |
| 65° | 73.6 |
| 67.5° | 64.6 |
| 70° | 57.1 |
| 72.5° | 49.6 |
| 75° | 42.0 |
| 77.5° | 33.0 |
| 80° | 27.0 |
| 82.5° | 18.0 |
| 85° | 12.0 |
| 87.5° | 4.5 |
| 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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