

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: P641861

Luminaire Tested: ML5612LSVWFL97FS1E - 693WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-109)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 693WB - 1200LM - 2700K
Description: ML56 RR, MILKY OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

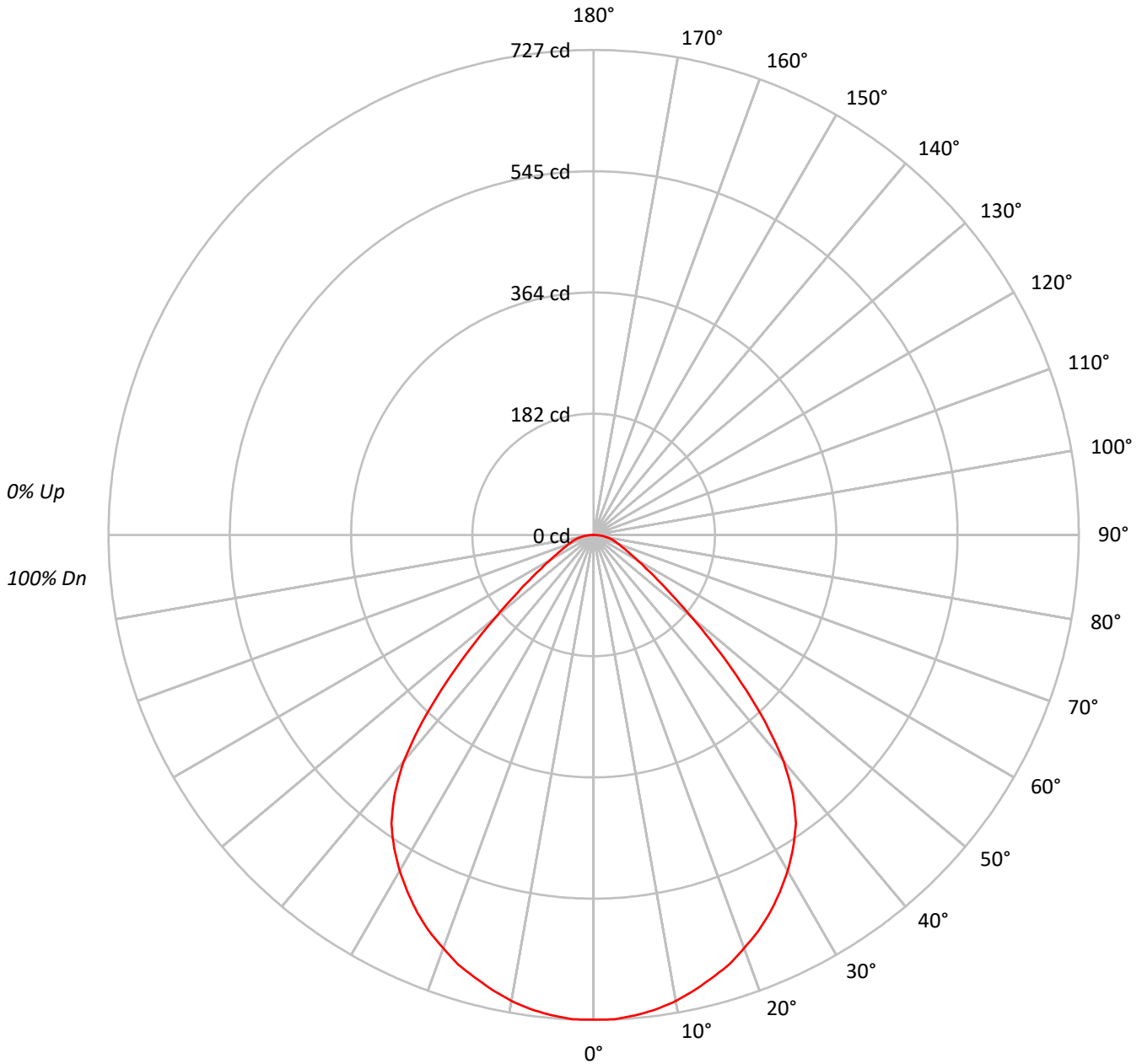
Lumens per Lamp: N/A
Luminaire Lumens: 1320.8 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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 | | | | 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 | | | 100 |
| 1 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | 89 |
| 2 | 103 | 97 | 92 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 80 | 79 | | | 79 |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 83 | 78 | 74 | 81 | 76 | 73 | 78 | 75 | 71 | 70 | | | 70 |
| 4 | 89 | 80 | 72 | 67 | 87 | 78 | 72 | 66 | 76 | 70 | 65 | 74 | 69 | 65 | 72 | 67 | 64 | 62 | | | 62 |
| 5 | 83 | 73 | 65 | 59 | 81 | 71 | 64 | 59 | 70 | 63 | 58 | 68 | 62 | 58 | 66 | 61 | 57 | 56 | | | 56 |
| 6 | 78 | 66 | 59 | 53 | 76 | 65 | 58 | 53 | 64 | 57 | 53 | 62 | 57 | 52 | 61 | 56 | 52 | 50 | | | 50 |
| 7 | 73 | 61 | 53 | 48 | 71 | 60 | 53 | 48 | 59 | 52 | 48 | 57 | 52 | 47 | 56 | 51 | 47 | 45 | | | 45 |
| 8 | 68 | 56 | 49 | 44 | 67 | 56 | 48 | 43 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 41 | | | 41 |
| 9 | 64 | 52 | 45 | 40 | 63 | 52 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 48 | 43 | 39 | 38 | | | 38 |
| 10 | 60 | 48 | 41 | 37 | 59 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 | | | 34 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 39838 |
| 5° | 39770 |
| 10° | 39495 |
| 15° | 38996 |
| 20° | 38463 |
| 25° | 37805 |
| 30° | 36803 |
| 35° | 35369 |
| 40° | 31674 |
| 45° | 24173 |
| 50° | 16230 |
| 55° | 11115 |
| 60° | 8256 |
| 65° | 6862 |
| 70° | 6347 |
| 75° | 6439 |
| 80° | 6251 |
| 85° | 5787 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24173 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.6 | 5.2 |
| 10°-20° | 193.9 | 14.7 |
| 20°-30° | 287.4 | 21.8 |
| 30°-40° | 326.1 | 24.7 |
| 40°-50° | 240.2 | 18.2 |
| 50°-60° | 108.8 | 8.2 |
| 60°-70° | 53.7 | 4.1 |
| 70°-80° | 31.6 | 2.4 |
| 80°-90° | 10.6 | 0.8 |
| 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° | 549.8 | 41.6 |
| 0°-40° | 875.9 | 66.3 |
| 0°-60° | 1224.9 | 92.7 |
| 0°-90° | 1320.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1320.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 727 | |
| 5° | 723 | 69 |
| 15° | 687 | 194 |
| 25° | 625 | 287 |
| 35° | 528 | 326 |
| 45° | 312 | 240 |
| 55° | 116 | 109 |
| 65° | 53 | 54 |
| 75° | 30 | 32 |
| 85° | 9 | 11 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 726.7 |
| 2.5° | 726.7 |
| 5° | 722.7 |
| 7.5° | 717.4 |
| 10° | 709.5 |
| 12.5° | 699.0 |
| 15° | 687.1 |
| 17.5° | 675.2 |
| 20° | 659.3 |
| 22.5° | 643.5 |
| 25° | 625.0 |
| 27.5° | 603.8 |
| 30° | 581.4 |
| 32.5° | 556.3 |
| 35° | 528.5 |
| 37.5° | 490.2 |
| 40° | 442.6 |
| 42.5° | 380.5 |
| 45° | 311.8 |
| 47.5° | 245.8 |
| 50° | 190.3 |
| 52.5° | 148.0 |
| 55° | 116.3 |
| 57.5° | 92.5 |
| 60° | 75.3 |
| 62.5° | 62.1 |
| 65° | 52.9 |
| 67.5° | 44.9 |
| 70° | 39.6 |
| 72.5° | 34.4 |
| 75° | 30.4 |
| 77.5° | 25.1 |
| 80° | 19.8 |
| 82.5° | 15.9 |
| 85° | 9.2 |
| 87.5° | 4.0 |
| 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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