

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: P641832

Luminaire Tested: ML5612LSVWFL97FS1E - 693SNB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-111)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 693SNB - 1200LM - 3000K
Description: ML56 RR, MILKY OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1229.7 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

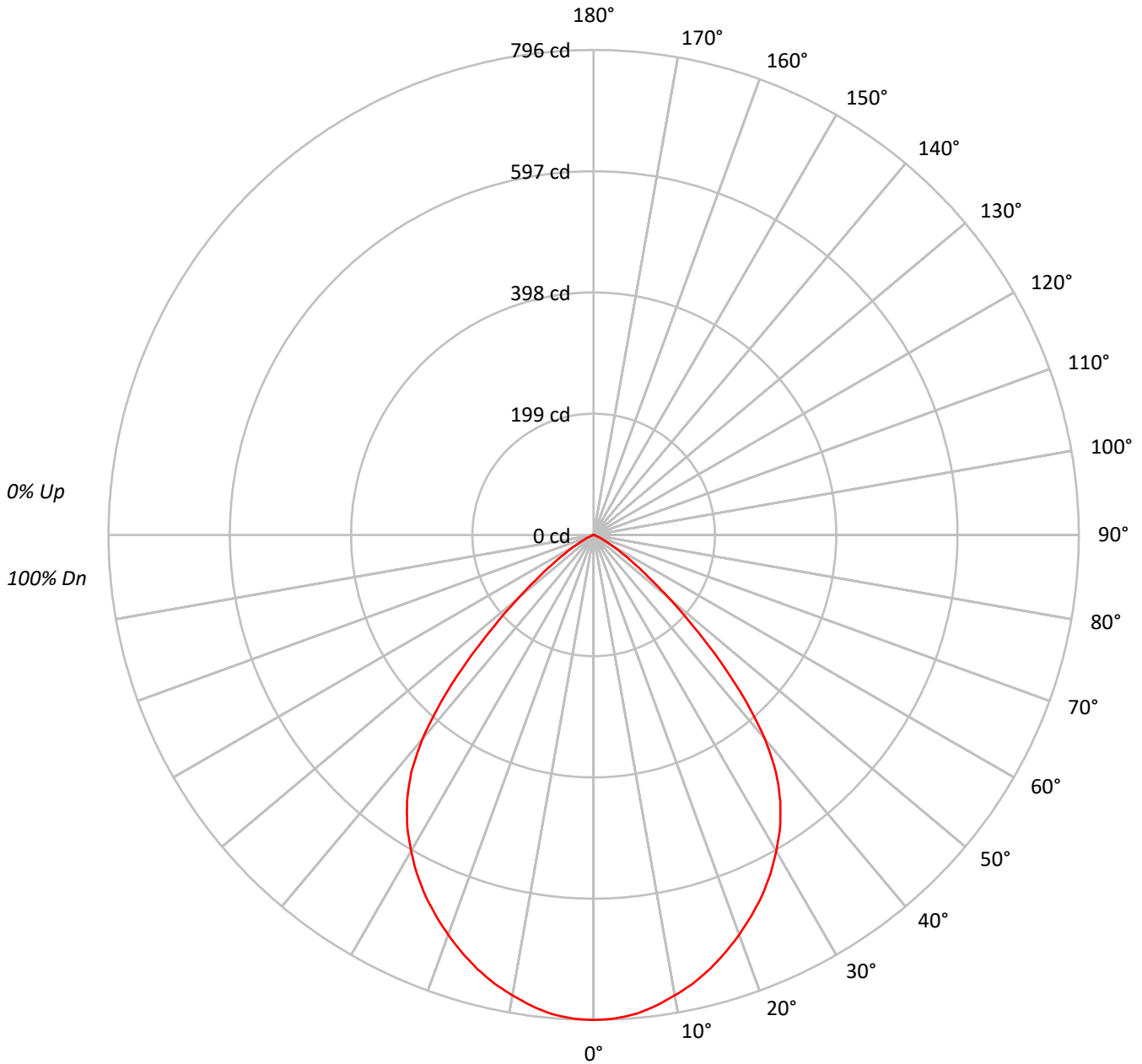
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 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 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 | | | | | | | | | | | | | |
| 2 | 105 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 86 | 84 | 82 | | | | | | | | | | | | | |
| 3 | 99 | 91 | 85 | 80 | 97 | 90 | 84 | 80 | 87 | 82 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 74 | | | | | | | | | | | | | |
| 4 | 92 | 83 | 77 | 72 | 90 | 82 | 76 | 71 | 80 | 75 | 70 | 78 | 73 | 69 | 76 | 72 | 69 | 67 | | | | | | | | | | | | | |
| 5 | 86 | 76 | 69 | 64 | 85 | 75 | 69 | 64 | 73 | 68 | 63 | 72 | 67 | 63 | 70 | 66 | 62 | 60 | | | | | | | | | | | | | |
| 6 | 81 | 70 | 63 | 58 | 79 | 69 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 55 | | | | | | | | | | | | | |
| 7 | 76 | 65 | 58 | 53 | 74 | 64 | 57 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 50 | | | | | | | | | | | | | |
| 8 | 71 | 60 | 53 | 48 | 70 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 52 | 47 | 56 | 51 | 47 | 46 | | | | | | | | | | | | | |
| 9 | 67 | 56 | 49 | 44 | 66 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 44 | 52 | 47 | 43 | 42 | | | | | | | | | | | | | |
| 10 | 63 | 52 | 45 | 41 | 62 | 51 | 45 | 40 | 50 | 44 | 40 | 50 | 44 | 40 | 49 | 44 | 40 | 39 | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 43642 |
| 5° | 43435 |
| 10° | 42724 |
| 15° | 41862 |
| 20° | 40738 |
| 25° | 39522 |
| 30° | 37924 |
| 35° | 35730 |
| 40° | 31302 |
| 45° | 22747 |
| 50° | 13671 |
| 55° | 7398 |
| 60° | 3728 |
| 65° | 1583 |
| 70° | 433 |
| 75° | 297 |
| 80° | 442 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22747 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.6 | 6.1 |
| 10°-20° | 207.6 | 16.9 |
| 20°-30° | 300.2 | 24.4 |
| 30°-40° | 329.9 | 26.8 |
| 40°-50° | 226.1 | 18.4 |
| 50°-60° | 74.9 | 6.1 |
| 60°-70° | 13.8 | 1.1 |
| 70°-80° | 2.0 | 0.2 |
| 80°-90° | 0.6 | 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° | 582.4 | 47.4 |
| 0°-40° | 912.4 | 74.2 |
| 0°-60° | 1213.4 | 98.7 |
| 0°-90° | 1229.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1229.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 796 | |
| 5° | 789 | 75 |
| 15° | 738 | 208 |
| 25° | 653 | 300 |
| 35° | 534 | 330 |
| 45° | 293 | 226 |
| 55° | 77 | 75 |
| 65° | 12 | 14 |
| 75° | 1 | 2 |
| 85° | 0 | 1 |
| 90° | 0 | |



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CATALOG NUMBER: ML5612LSVWFL97FS1E - 693SNB - 1200LM - 3000K

CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 796.1 |
| 2.5° | 794.7 |
| 5° | 789.3 |
| 7.5° | 779.8 |
| 10° | 767.5 |
| 12.5° | 753.9 |
| 15° | 737.6 |
| 17.5° | 718.6 |
| 20° | 698.3 |
| 22.5° | 676.5 |
| 25° | 653.4 |
| 27.5° | 627.6 |
| 30° | 599.1 |
| 32.5° | 569.2 |
| 35° | 533.9 |
| 37.5° | 491.8 |
| 40° | 437.4 |
| 42.5° | 369.5 |
| 45° | 293.4 |
| 47.5° | 221.4 |
| 50° | 160.3 |
| 52.5° | 112.8 |
| 55° | 77.4 |
| 57.5° | 51.6 |
| 60° | 34.0 |
| 62.5° | 20.4 |
| 65° | 12.2 |
| 67.5° | 5.4 |
| 70° | 2.7 |
| 72.5° | 2.7 |
| 75° | 1.4 |
| 77.5° | 1.4 |
| 80° | 1.4 |
| 82.5° | 1.4 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 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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Scaled Data Report



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