

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: P643597

Luminaire Tested: ML5615LSVWFL9FS1E - 692H - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-107)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 692H - 900LM - 3000K
Description: ML56 RR, MILKY OPTIC, 6" HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

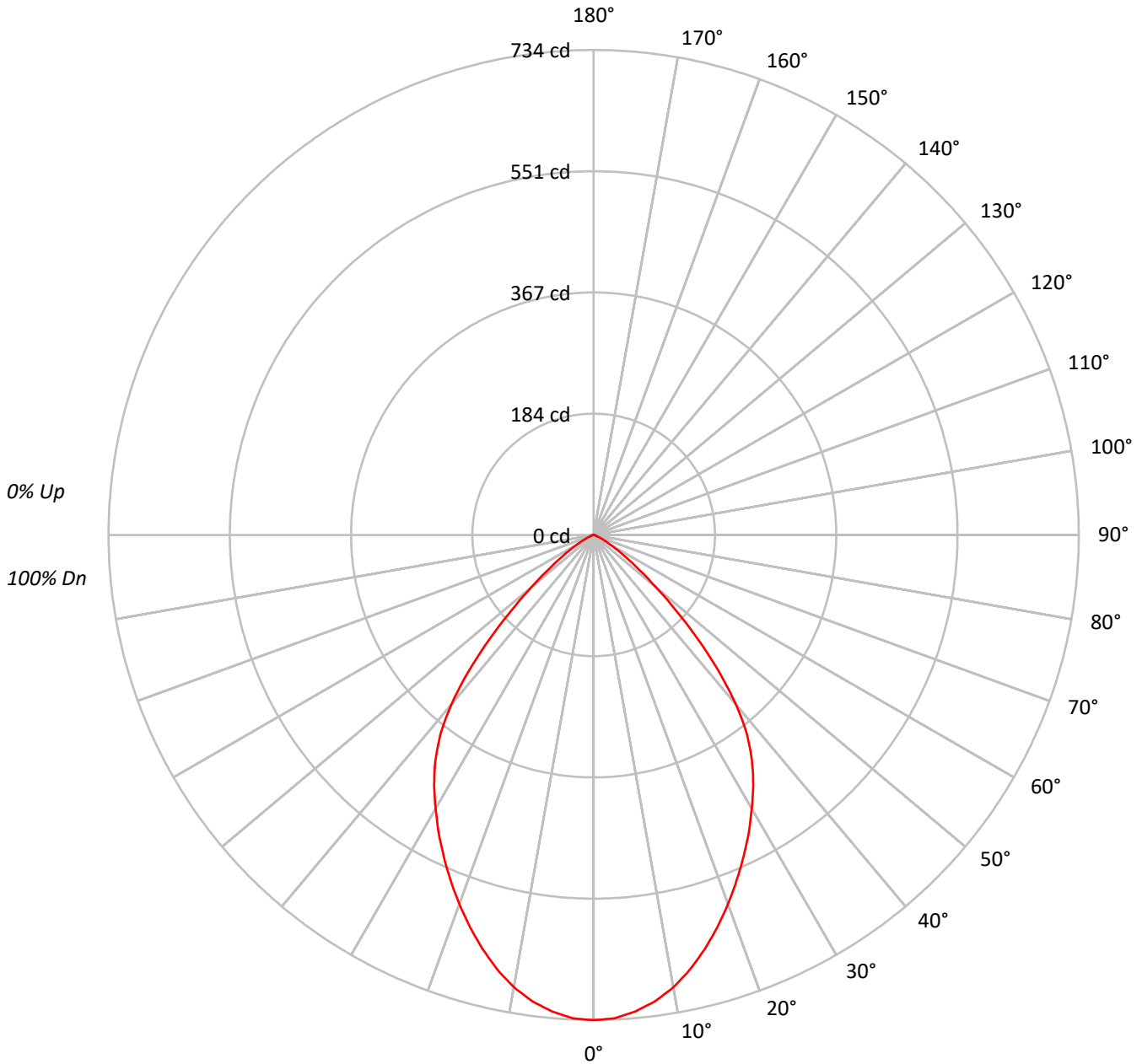
Lumens per Lamp: N/A
Luminaire Lumens: 1002.8 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.1
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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 | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 | | | | | | | | | | | | | | | | | | | |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 87 | 84 | 83 | | | | | | | | | | | | | | | | | | | |
| 3 | 99 | 91 | 86 | 81 | 97 | 90 | 85 | 80 | 87 | 83 | 79 | 85 | 81 | 78 | 82 | 79 | 76 | 75 | | | | | | | | | | | | | | | | | | | |
| 4 | 93 | 84 | 77 | 72 | 91 | 83 | 77 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 68 | 64 | 72 | 67 | 64 | 71 | 66 | 63 | 61 | | | | | | | | | | | | | | | | | | | |
| 6 | 81 | 71 | 64 | 59 | 80 | 70 | 64 | 59 | 69 | 63 | 58 | 67 | 62 | 58 | 66 | 61 | 57 | 56 | | | | | | | | | | | | | | | | | | | |
| 7 | 77 | 66 | 59 | 54 | 75 | 65 | 58 | 54 | 64 | 58 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 51 | | | | | | | | | | | | | | | | | | | |
| 8 | 72 | 61 | 54 | 49 | 71 | 60 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 49 | 57 | 52 | 48 | 47 | | | | | | | | | | | | | | | | | | | |
| 9 | 68 | 57 | 50 | 45 | 67 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 53 | 48 | 45 | 43 | | | | | | | | | | | | | | | | | | | |
| 10 | 64 | 53 | 46 | 42 | 63 | 52 | 46 | 42 | 52 | 46 | 42 | 51 | 45 | 41 | 50 | 45 | 41 | 40 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 40254 |
| 5° | 39841 |
| 10° | 38699 |
| 15° | 36828 |
| 20° | 34676 |
| 25° | 32470 |
| 30° | 30270 |
| 35° | 27940 |
| 40° | 23995 |
| 45° | 17219 |
| 50° | 10439 |
| 55° | 5897 |
| 60° | 3158 |
| 65° | 1466 |
| 70° | 817 |
| 75° | 657 |
| 80° | 316 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17219 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.2 | 6.8 |
| 10°-20° | 182.0 | 18.2 |
| 20°-30° | 246.8 | 24.6 |
| 30°-40° | 258.2 | 25.7 |
| 40°-50° | 171.8 | 17.1 |
| 50°-60° | 59.1 | 5.9 |
| 60°-70° | 13.2 | 1.3 |
| 70°-80° | 3.0 | 0.3 |
| 80°-90° | 0.4 | 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° | 497.1 | 49.6 |
| 0°-40° | 755.3 | 75.3 |
| 0°-60° | 986.2 | 98.3 |
| 0°-90° | 1002.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1002.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 734 | |
| 5° | 724 | 68 |
| 15° | 649 | 182 |
| 25° | 537 | 247 |
| 35° | 418 | 258 |
| 45° | 222 | 172 |
| 55° | 62 | 59 |
| 65° | 11 | 13 |
| 75° | 3 | 3 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 734.3 |
| 2.5° | 732.2 |
| 5° | 724.0 |
| 7.5° | 711.7 |
| 10° | 695.2 |
| 12.5° | 673.6 |
| 15° | 648.9 |
| 17.5° | 622.2 |
| 20° | 594.4 |
| 22.5° | 565.6 |
| 25° | 536.8 |
| 27.5° | 508.0 |
| 30° | 478.2 |
| 32.5° | 449.4 |
| 35° | 417.5 |
| 37.5° | 381.5 |
| 40° | 335.3 |
| 42.5° | 280.8 |
| 45° | 222.1 |
| 47.5° | 167.6 |
| 50° | 122.4 |
| 52.5° | 87.4 |
| 55° | 61.7 |
| 57.5° | 42.2 |
| 60° | 28.8 |
| 62.5° | 18.5 |
| 65° | 11.3 |
| 67.5° | 7.2 |
| 70° | 5.1 |
| 72.5° | 3.1 |
| 75° | 3.1 |
| 77.5° | 2.1 |
| 80° | 1.0 |
| 82.5° | 1.0 |
| 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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