

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P643420

Luminaire Tested: ML5615LSVWFL9FS1E - 592H - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-95)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 592H - 900LM - 5000K
Description: ML56 RR, MILKY OPTIC, 5" HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

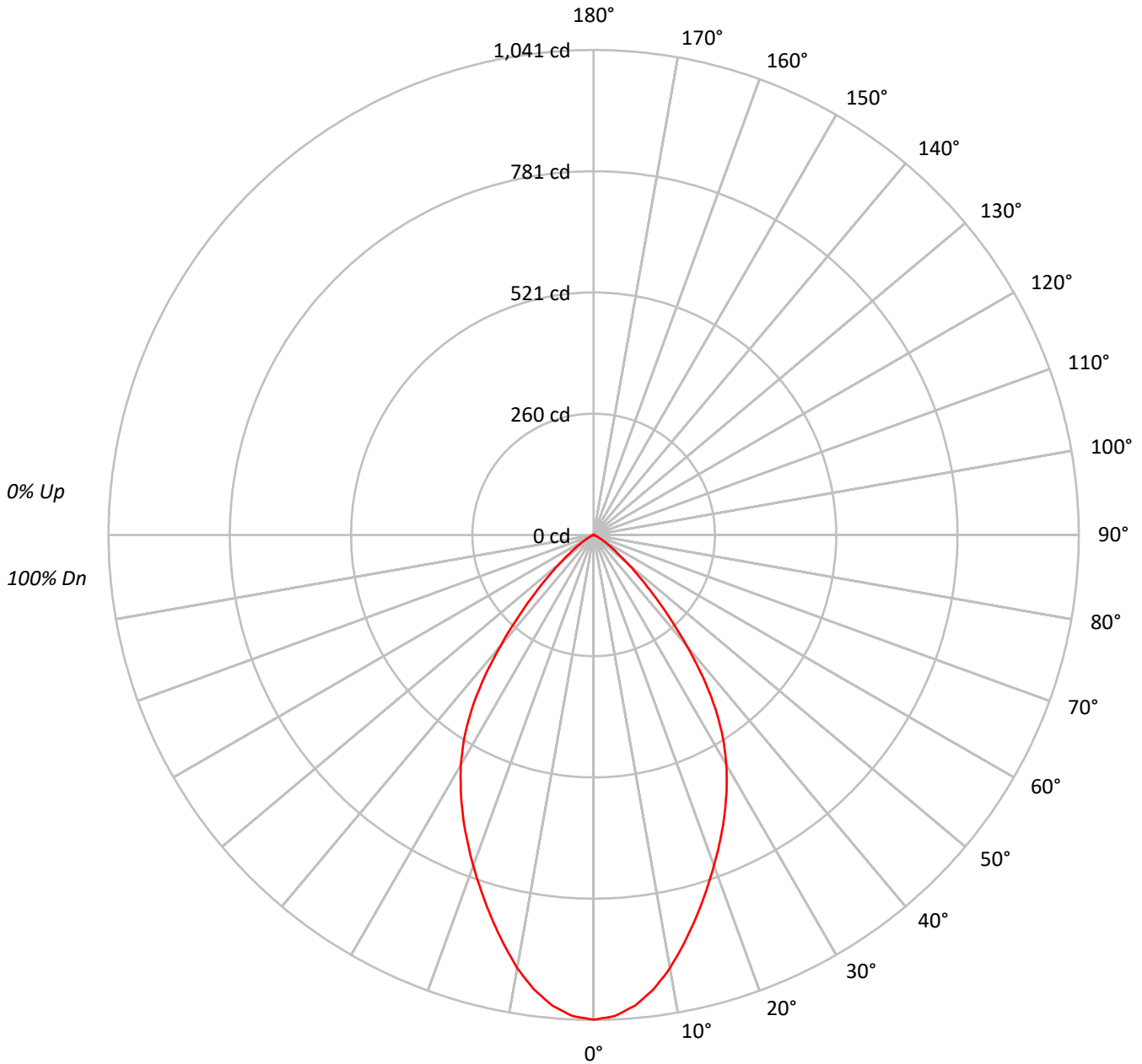
Lumens per Lamp: N/A
Luminaire Lumens: 1114.9 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.97
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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 | | | 100 | | | | | | | | | | | | | | | | |
| 1 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 | | | 92 | | | | | | | | | | | | | | | | |
| 2 | 107 | 101 | 97 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 90 | 93 | 90 | 88 | 90 | 88 | 86 | 84 | | | 84 | | | | | | | | | | | | | | | | |
| 3 | 100 | 93 | 88 | 83 | 98 | 92 | 87 | 83 | 89 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 79 | 77 | | | 77 | | | | | | | | | | | | | | | | |
| 4 | 95 | 86 | 80 | 75 | 93 | 85 | 79 | 75 | 83 | 78 | 74 | 81 | 76 | 73 | 79 | 75 | 72 | 71 | | | 71 | | | | | | | | | | | | | | | | |
| 5 | 89 | 80 | 73 | 68 | 87 | 79 | 73 | 68 | 77 | 72 | 68 | 75 | 71 | 67 | 74 | 70 | 66 | 65 | | | 65 | | | | | | | | | | | | | | | | |
| 6 | 84 | 74 | 67 | 63 | 82 | 73 | 67 | 62 | 72 | 66 | 62 | 70 | 65 | 62 | 69 | 64 | 61 | 60 | | | 60 | | | | | | | | | | | | | | | | |
| 7 | 79 | 69 | 62 | 58 | 78 | 68 | 62 | 57 | 67 | 61 | 57 | 66 | 61 | 57 | 64 | 60 | 56 | 55 | | | 55 | | | | | | | | | | | | | | | | |
| 8 | 75 | 64 | 58 | 53 | 73 | 64 | 57 | 53 | 63 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 52 | 51 | | | 51 | | | | | | | | | | | | | | | | |
| 9 | 71 | 60 | 54 | 49 | 70 | 60 | 53 | 49 | 59 | 53 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 47 | | | 47 | | | | | | | | | | | | | | | | |
| 10 | 67 | 56 | 50 | 46 | 66 | 56 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 46 | 54 | 49 | 45 | 44 | | | 44 | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 82146 |
| 5° | 80384 |
| 10° | 75662 |
| 15° | 69426 |
| 20° | 63434 |
| 25° | 57853 |
| 30° | 51939 |
| 35° | 43944 |
| 40° | 32110 |
| 45° | 20062 |
| 50° | 11458 |
| 55° | 6262 |
| 60° | 3237 |
| 65° | 1494 |
| 70° | 785 |
| 75° | 336 |
| 80° | 500 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20062 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.6 | 8.5 |
| 10°-20° | 238.1 | 21.4 |
| 20°-30° | 304.6 | 27.3 |
| 30°-40° | 279.3 | 25.0 |
| 40°-50° | 143.7 | 12.9 |
| 50°-60° | 43.8 | 3.9 |
| 60°-70° | 9.1 | 0.8 |
| 70°-80° | 1.8 | 0.2 |
| 80°-90° | 0.1 | 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° | 637.2 | 57.2 |
| 0°-40° | 916.5 | 82.2 |
| 0°-60° | 1104.0 | 99.0 |
| 0°-90° | 1114.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1114.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1041 | |
| 5° | 1014 | 95 |
| 15° | 850 | 238 |
| 25° | 664 | 305 |
| 35° | 456 | 279 |
| 45° | 180 | 144 |
| 55° | 46 | 44 |
| 65° | 8 | 9 |
| 75° | 1 | 2 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1040.6 |
| 2.5° | 1033.8 |
| 5° | 1014.4 |
| 7.5° | 983.7 |
| 10° | 943.9 |
| 12.5° | 897.3 |
| 15° | 849.5 |
| 17.5° | 801.8 |
| 20° | 755.1 |
| 22.5° | 709.6 |
| 25° | 664.2 |
| 27.5° | 617.5 |
| 30° | 569.8 |
| 32.5° | 516.3 |
| 35° | 456.0 |
| 37.5° | 385.5 |
| 40° | 311.6 |
| 42.5° | 241.1 |
| 45° | 179.7 |
| 47.5° | 130.8 |
| 50° | 93.3 |
| 52.5° | 64.8 |
| 55° | 45.5 |
| 57.5° | 30.7 |
| 60° | 20.5 |
| 62.5° | 12.5 |
| 65° | 8.0 |
| 67.5° | 4.5 |
| 70° | 3.4 |
| 72.5° | 2.3 |
| 75° | 1.1 |
| 77.5° | 1.1 |
| 80° | 1.1 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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