

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: P643655

Luminaire Tested: ML5615LSVWFL9FS1E - 693SNB - 1500LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643655
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: ML5615LSVWFL9FS1E - 693SNB - 1500LM - 5000K
Description: ML56 RR, MILKY OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

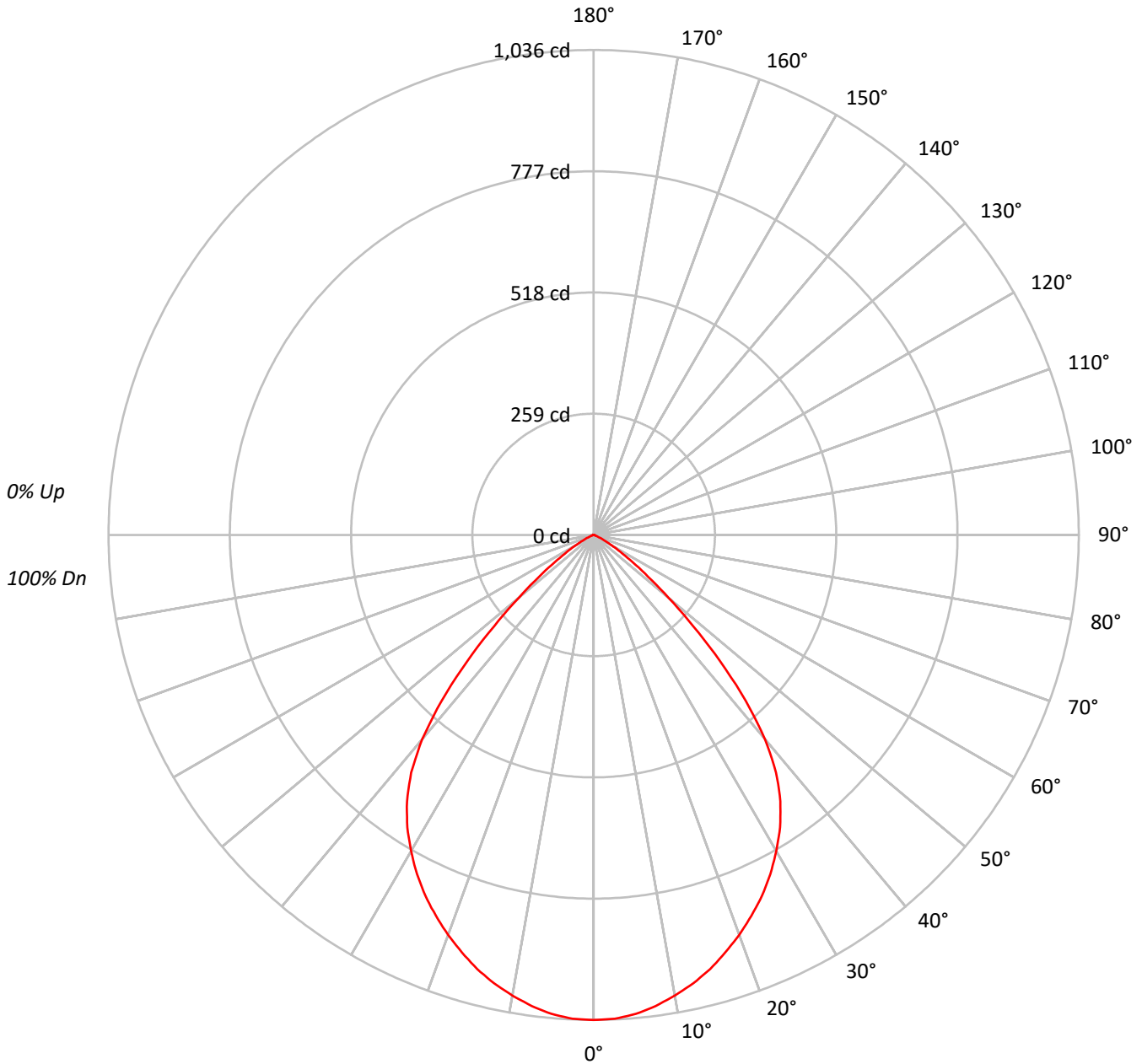
Lumens per Lamp: N/A
Luminaire Lumens: 1600.7 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
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 | 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° | 56805 |
| 5° | 56537 |
| 10° | 55616 |
| 15° | 54495 |
| 20° | 53024 |
| 25° | 51451 |
| 30° | 49362 |
| 35° | 46512 |
| 40° | 40748 |
| 45° | 29615 |
| 50° | 17799 |
| 55° | 9634 |
| 60° | 4846 |
| 65° | 2062 |
| 70° | 561 |
| 75° | 381 |
| 80° | 568 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29615 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 97.1 | 6.1 |
| 10°-20° | 270.2 | 16.9 |
| 20°-30° | 390.8 | 24.4 |
| 30°-40° | 429.5 | 26.8 |
| 40°-50° | 294.3 | 18.4 |
| 50°-60° | 97.6 | 6.1 |
| 60°-70° | 17.9 | 1.1 |
| 70°-80° | 2.6 | 0.2 |
| 80°-90° | 0.7 | 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° | 758.2 | 47.4 |
| 0°-40° | 1187.6 | 74.2 |
| 0°-60° | 1579.5 | 98.7 |
| 0°-90° | 1600.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1600.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1036 | |
| 5° | 1027 | 97 |
| 15° | 960 | 270 |
| 25° | 851 | 391 |
| 35° | 695 | 429 |
| 45° | 382 | 294 |
| 55° | 101 | 98 |
| 65° | 16 | 18 |
| 75° | 2 | 3 |
| 85° | 0 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1036.2 |
| 2.5° | 1034.5 |
| 5° | 1027.4 |
| 7.5° | 1015.0 |
| 10° | 999.1 |
| 12.5° | 981.4 |
| 15° | 960.2 |
| 17.5° | 935.4 |
| 20° | 908.9 |
| 22.5° | 880.6 |
| 25° | 850.6 |
| 27.5° | 817.0 |
| 30° | 779.8 |
| 32.5° | 740.9 |
| 35° | 695.0 |
| 37.5° | 640.1 |
| 40° | 569.4 |
| 42.5° | 481.0 |
| 45° | 382.0 |
| 47.5° | 288.2 |
| 50° | 208.7 |
| 52.5° | 146.8 |
| 55° | 100.8 |
| 57.5° | 67.2 |
| 60° | 44.2 |
| 62.5° | 26.5 |
| 65° | 15.9 |
| 67.5° | 7.1 |
| 70° | 3.5 |
| 72.5° | 3.5 |
| 75° | 1.8 |
| 77.5° | 1.8 |
| 80° | 1.8 |
| 82.5° | 1.8 |
| 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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