

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: P643628

Luminaire Tested: ML5615LSVWFL9FS1E - 692W - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-108)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 692W - 900LM - 3500K
Description: ML56 RR, MILKY OPTIC, 6" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

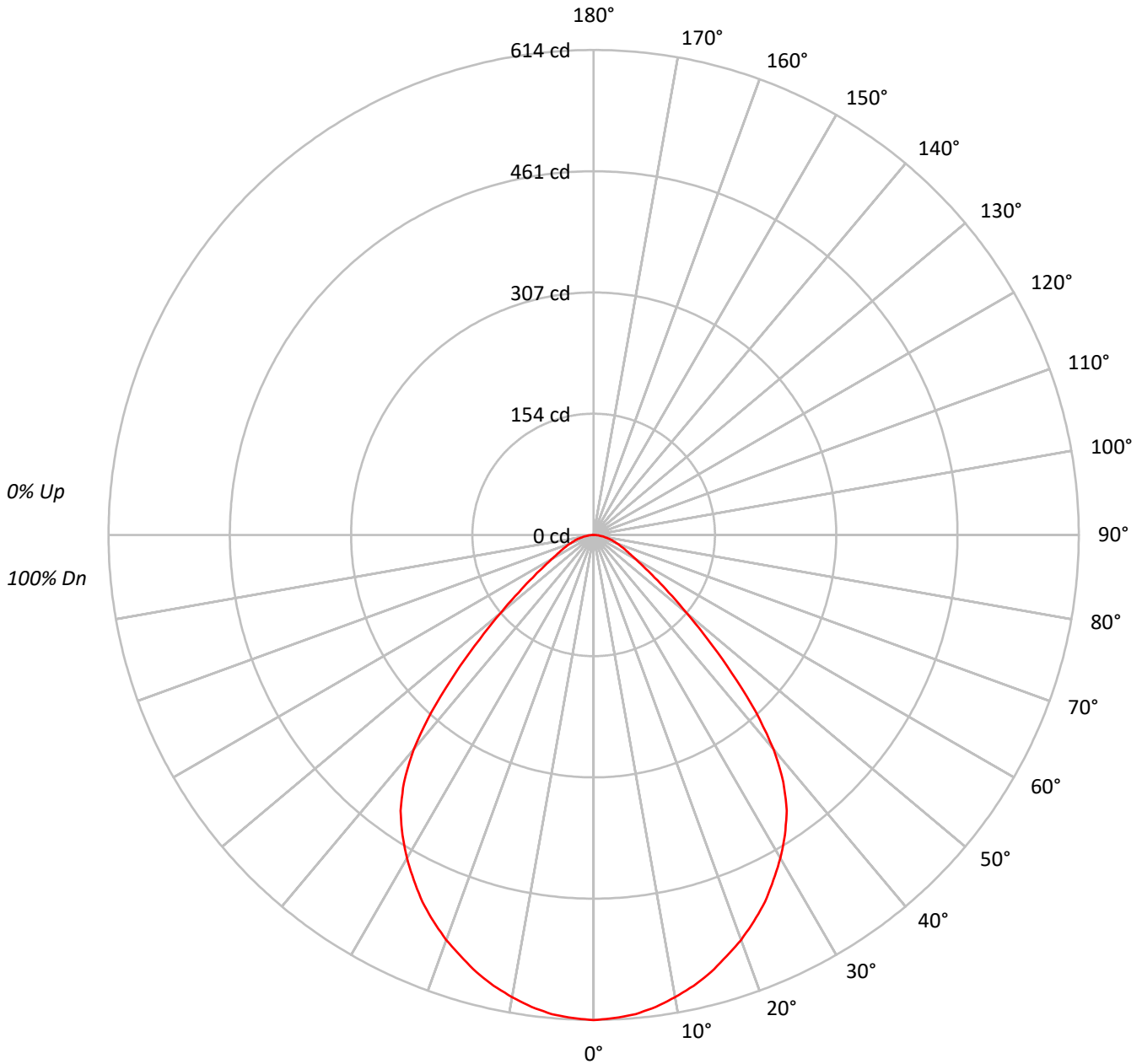
Lumens per Lamp: N/A
Luminaire Lumens: 1070.3 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P643628
CATALOG NUMBER: ML5615LSVWFL9FS1E - 692W - 900LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P643628

CATALOG NUMBER: ML5615LSVWFL9FS1E - 692W - 900LM - 3500K

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 | 111 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 101 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 89 | | | 89 | | | | | | | | | | | | | | | | |
| 2 | 104 | 97 | 92 | 87 | 101 | 95 | 91 | 86 | 92 | 88 | 84 | 89 | 86 | 83 | 86 | 83 | 81 | 79 | | | 79 | | | | | | | | | | | | | | | | |
| 3 | 96 | 88 | 81 | 76 | 94 | 87 | 80 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | 70 | | | | | | | | | | | | | | | | |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 76 | 71 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 63 | | | 63 | | | | | | | | | | | | | | | | |
| 5 | 84 | 73 | 65 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | 68 | 63 | 58 | 66 | 62 | 58 | 56 | | | 56 | | | | | | | | | | | | | | | | |
| 6 | 78 | 67 | 59 | 54 | 76 | 66 | 59 | 54 | 64 | 58 | 53 | 63 | 57 | 53 | 61 | 56 | 52 | 50 | | | 50 | | | | | | | | | | | | | | | | |
| 7 | 73 | 61 | 54 | 49 | 72 | 61 | 53 | 48 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 51 | 47 | 46 | | | 46 | | | | | | | | | | | | | | | | |
| 8 | 69 | 57 | 49 | 44 | 67 | 56 | 49 | 44 | 55 | 48 | 44 | 54 | 48 | 44 | 53 | 47 | 43 | 42 | | | 42 | | | | | | | | | | | | | | | | |
| 9 | 64 | 52 | 45 | 40 | 63 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 40 | 38 | | | 38 | | | | | | | | | | | | | | | | |
| 10 | 61 | 49 | 42 | 37 | 59 | 48 | 42 | 37 | 47 | 41 | 37 | 47 | 41 | 37 | 46 | 40 | 37 | 35 | | | 35 | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 33676 |
| 5° | 33513 |
| 10° | 33077 |
| 15° | 32526 |
| 20° | 31829 |
| 25° | 31018 |
| 30° | 29916 |
| 35° | 28516 |
| 40° | 25347 |
| 45° | 19180 |
| 50° | 13074 |
| 55° | 8994 |
| 60° | 6721 |
| 65° | 5630 |
| 70° | 5081 |
| 75° | 4702 |
| 80° | 4009 |
| 85° | 3334 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19180 cd/sqm



TEST NUMBER: P643628

CATALOG NUMBER: ML5615LSVWFL9FS1E - 692W - 900LM - 3500K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 57.7 | 5.4 |
| 10°-20° | 161.4 | 15.1 |
| 20°-30° | 235.6 | 22.0 |
| 30°-40° | 263.1 | 24.6 |
| 40°-50° | 191.5 | 17.9 |
| 50°-60° | 88.0 | 8.2 |
| 60°-70° | 43.9 | 4.1 |
| 70°-80° | 23.1 | 2.2 |
| 80°-90° | 6.1 | 0.6 |
| 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° | 454.6 | 42.5 |
| 0°-40° | 717.7 | 67.1 |
| 0°-60° | 997.2 | 93.2 |
| 0°-90° | 1070.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1070.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 614 | |
| 5° | 609 | 58 |
| 15° | 573 | 161 |
| 25° | 513 | 236 |
| 35° | 426 | 263 |
| 45° | 247 | 191 |
| 55° | 94 | 88 |
| 65° | 43 | 44 |
| 75° | 22 | 23 |
| 85° | 5 | 6 |
| 90° | 0 | |



TEST NUMBER: P643628

CATALOG NUMBER: ML5615LSVWFL9FS1E - 692W - 900LM - 3500K

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 614.3 |
| 2.5° | 612.2 |
| 5° | 609.0 |
| 7.5° | 602.7 |
| 10° | 594.2 |
| 12.5° | 584.7 |
| 15° | 573.1 |
| 17.5° | 559.3 |
| 20° | 545.6 |
| 22.5° | 529.7 |
| 25° | 512.8 |
| 27.5° | 492.7 |
| 30° | 472.6 |
| 32.5° | 450.4 |
| 35° | 426.1 |
| 37.5° | 394.4 |
| 40° | 354.2 |
| 42.5° | 303.5 |
| 45° | 247.4 |
| 47.5° | 195.6 |
| 50° | 153.3 |
| 52.5° | 119.5 |
| 55° | 94.1 |
| 57.5° | 75.1 |
| 60° | 61.3 |
| 62.5° | 50.8 |
| 65° | 43.4 |
| 67.5° | 37.0 |
| 70° | 31.7 |
| 72.5° | 26.4 |
| 75° | 22.2 |
| 77.5° | 16.9 |
| 80° | 12.7 |
| 82.5° | 8.5 |
| 85° | 5.3 |
| 87.5° | 2.1 |
| 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

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

Scaled Data Report



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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)