

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: P643995

Luminaire Tested: ML5615LSWFL559FS1E - 693SNB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-65)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 693SNB - 1200LM - 5000K
Description: ML56 RR, 55D TIR 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: 1611.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

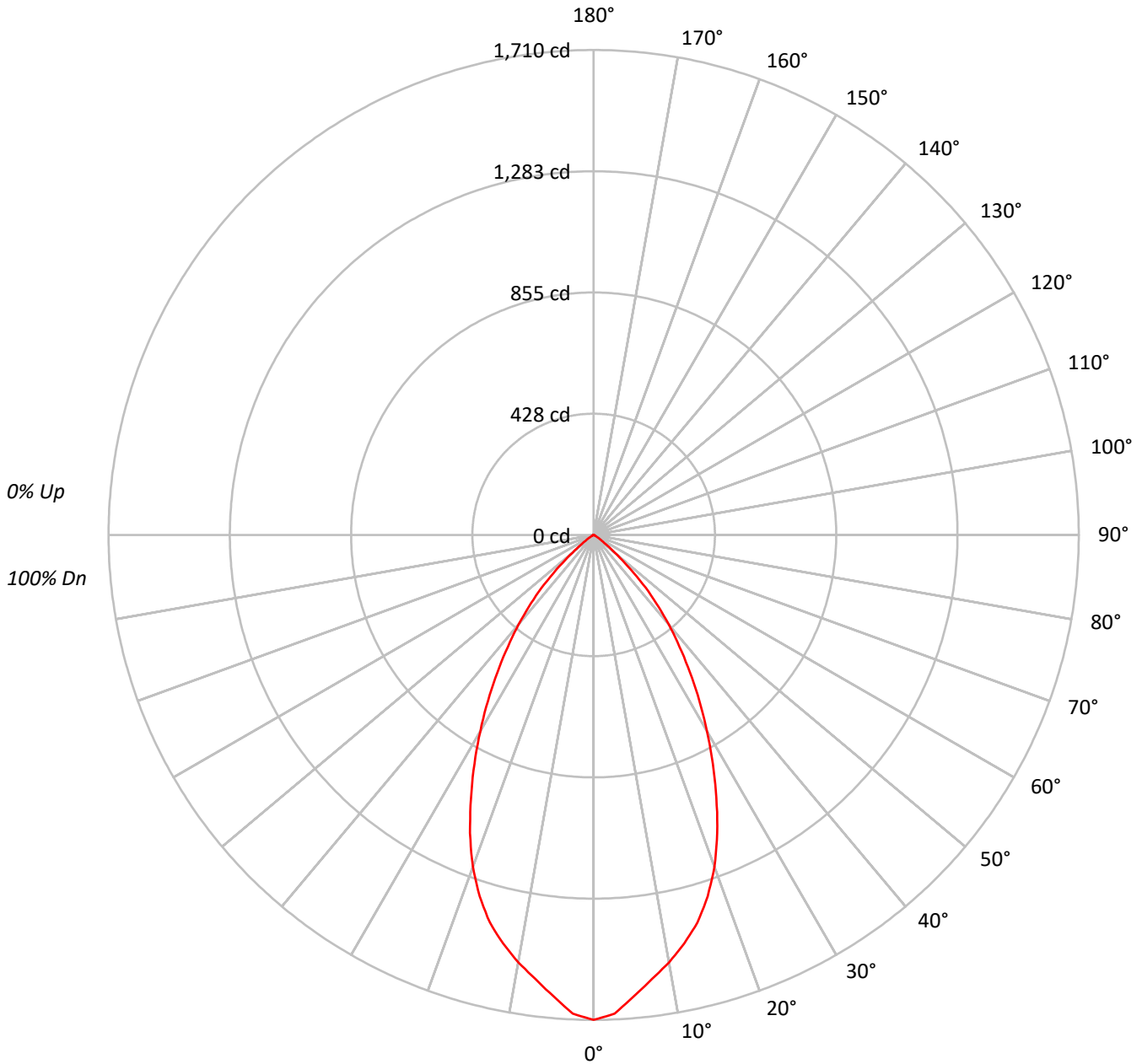
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 93 | | | | | | | | | | | | | | | | | | | |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 97 | 93 | 97 | 94 | 91 | 94 | 92 | 89 | 91 | 89 | 87 | 86 | | | | | | | | | | | | | | | | | | | |
| 3 | 101 | 95 | 89 | 85 | 99 | 93 | 88 | 85 | 91 | 87 | 83 | 88 | 85 | 82 | 86 | 83 | 81 | 79 | | | | | | | | | | | | | | | | | | | |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 81 | 77 | 85 | 80 | 76 | 83 | 79 | 75 | 81 | 77 | 74 | 73 | | | | | | | | | | | | | | | | | | | |
| 5 | 91 | 82 | 76 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 69 | 76 | 72 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 6 | 86 | 76 | 70 | 65 | 84 | 75 | 70 | 65 | 74 | 69 | 65 | 72 | 68 | 64 | 71 | 67 | 64 | 62 | | | | | | | | | | | | | | | | | | | |
| 7 | 81 | 71 | 65 | 60 | 80 | 71 | 65 | 60 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 59 | 58 | | | | | | | | | | | | | | | | | | | |
| 8 | 77 | 67 | 61 | 56 | 76 | 66 | 60 | 56 | 65 | 60 | 56 | 64 | 59 | 56 | 63 | 59 | 55 | 54 | | | | | | | | | | | | | | | | | | | |
| 9 | 73 | 63 | 57 | 52 | 72 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 60 | 55 | 52 | 50 | | | | | | | | | | | | | | | | | | | |
| 10 | 69 | 59 | 53 | 49 | 68 | 59 | 53 | 49 | 58 | 52 | 49 | 57 | 52 | 49 | 56 | 52 | 48 | 47 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 93737 |
| 5° | 89819 |
| 10° | 85169 |
| 15° | 80296 |
| 20° | 72631 |
| 25° | 61897 |
| 30° | 50565 |
| 35° | 39592 |
| 40° | 29355 |
| 45° | 19079 |
| 50° | 8221 |
| 55° | 3030 |
| 60° | 1425 |
| 65° | 376 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19079 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 152.7 | 9.5 |
| 10°-20° | 393.7 | 24.4 |
| 20°-30° | 467.6 | 29.0 |
| 30°-40° | 370.0 | 23.0 |
| 40°-50° | 187.8 | 11.7 |
| 50°-60° | 35.2 | 2.2 |
| 60°-70° | 4.0 | 0.3 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.0 | 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° | 1014.0 | 62.9 |
| 0°-40° | 1384.0 | 85.9 |
| 0°-60° | 1606.9 | 99.7 |
| 0°-90° | 1611.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1611.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1710 | |
| 5° | 1632 | 153 |
| 15° | 1415 | 394 |
| 25° | 1023 | 468 |
| 35° | 592 | 370 |
| 45° | 246 | 188 |
| 55° | 32 | 35 |
| 65° | 3 | 4 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1709.9 |
| 2.5° | 1689.7 |
| 5° | 1632.2 |
| 7.5° | 1578.9 |
| 10° | 1530.0 |
| 12.5° | 1475.3 |
| 15° | 1414.8 |
| 17.5° | 1335.7 |
| 20° | 1245.0 |
| 22.5° | 1138.5 |
| 25° | 1023.3 |
| 27.5° | 909.6 |
| 30° | 798.8 |
| 32.5° | 693.7 |
| 35° | 591.6 |
| 37.5° | 496.6 |
| 40° | 410.2 |
| 42.5° | 326.7 |
| 45° | 246.1 |
| 47.5° | 161.2 |
| 50° | 96.4 |
| 52.5° | 51.8 |
| 55° | 31.7 |
| 57.5° | 21.6 |
| 60° | 13.0 |
| 62.5° | 5.8 |
| 65° | 2.9 |
| 67.5° | 1.4 |
| 70° | 0.0 |
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 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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