

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: P643768

Luminaire Tested: ML5615LSWFL559FS1E - 592SC - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 592SC - 1200LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 5" SPECULAR CLEAR TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1506.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

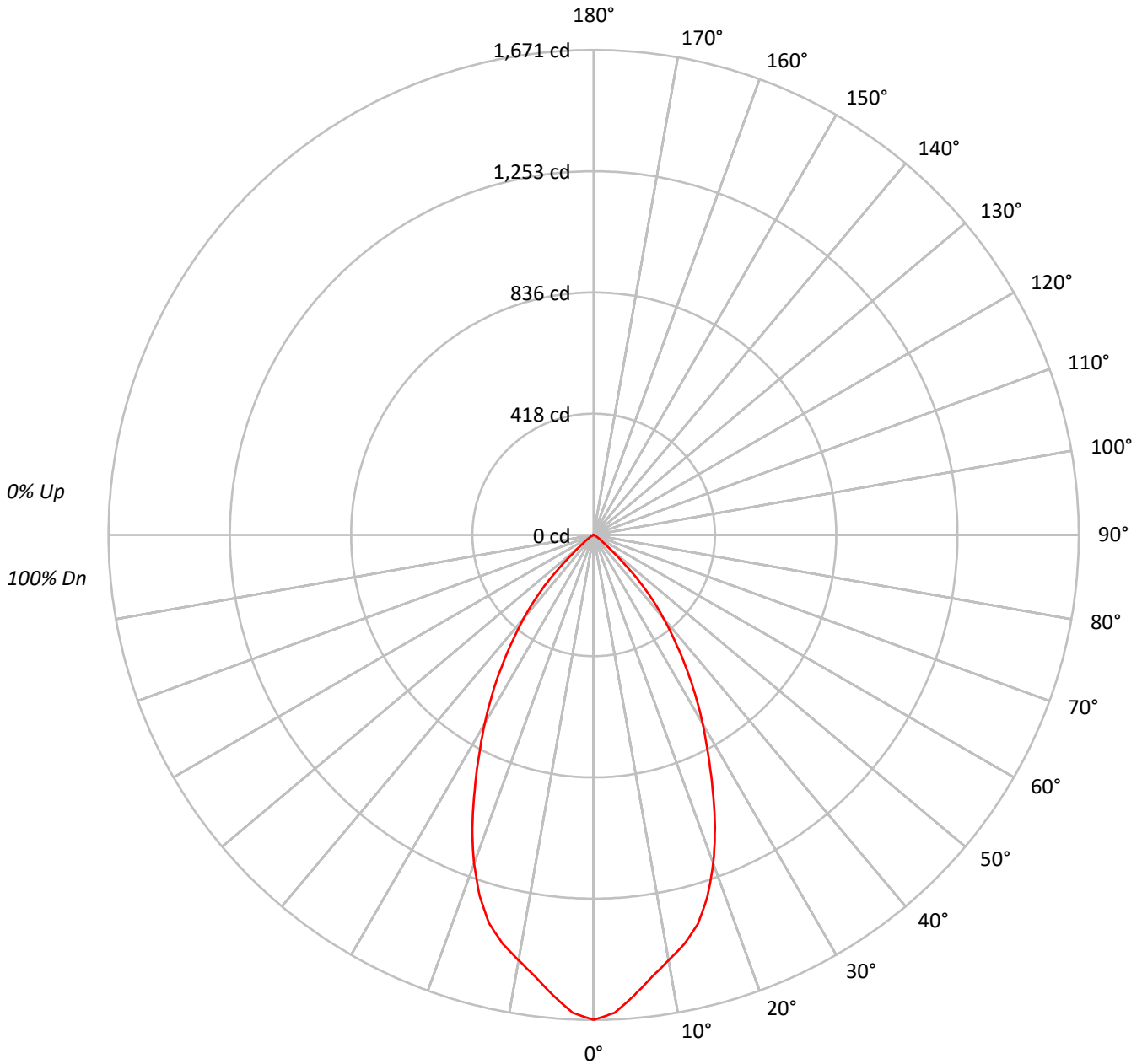
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643768

CATALOG NUMBER: ML5615LSWFL559FS1E - 592SC - 1200LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P643768

CATALOG NUMBER: ML5615LSWFL559FS1E - 592SC - 1200LM - 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 | | | | | | | | | | | | | | | | | | | |
| 1 | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 | | | | | | | | | | | | | | | | | | | |
| 2 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 97 | 94 | 92 | 94 | 92 | 90 | 92 | 90 | 88 | 86 | | | | | | | | | | | | | | | | | | | |
| 3 | 102 | 95 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 87 | 84 | 89 | 85 | 82 | 86 | 84 | 81 | 80 | | | | | | | | | | | | | | | | | | | |
| 4 | 96 | 88 | 83 | 78 | 94 | 87 | 82 | 78 | 85 | 81 | 77 | 83 | 79 | 76 | 81 | 78 | 75 | 74 | | | | | | | | | | | | | | | | | | | |
| 5 | 91 | 82 | 76 | 72 | 89 | 82 | 76 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 73 | 70 | 68 | | | | | | | | | | | | | | | | | | | |
| 6 | 86 | 77 | 71 | 66 | 85 | 76 | 70 | 66 | 75 | 70 | 66 | 73 | 69 | 65 | 72 | 68 | 65 | 63 | | | | | | | | | | | | | | | | | | | |
| 7 | 82 | 72 | 66 | 62 | 80 | 71 | 66 | 61 | 70 | 65 | 61 | 69 | 64 | 61 | 68 | 64 | 60 | 59 | | | | | | | | | | | | | | | | | | | |
| 8 | 78 | 68 | 62 | 57 | 76 | 67 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 56 | 55 | | | | | | | | | | | | | | | | | | | |
| 9 | 74 | 64 | 58 | 53 | 73 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 51 | | | | | | | | | | | | | | | | | | | |
| 10 | 70 | 60 | 54 | 50 | 69 | 60 | 54 | 50 | 59 | 53 | 50 | 58 | 53 | 50 | 57 | 53 | 50 | 48 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 131902 |
| 5° | 126265 |
| 10° | 119260 |
| 15° | 113394 |
| 20° | 101178 |
| 25° | 84410 |
| 30° | 68356 |
| 35° | 53070 |
| 40° | 38438 |
| 45° | 23277 |
| 50° | 7712 |
| 55° | 3496 |
| 60° | 1058 |
| 65° | 243 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23277 cd/sqm



TEST NUMBER: P643768

CATALOG NUMBER: ML5615LSWFL559FS1E - 592SC - 1200LM - 3500K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 148.7 | 9.9 |
| 10°-20° | 384.4 | 25.5 |
| 20°-30° | 444.2 | 29.5 |
| 30°-40° | 343.8 | 22.8 |
| 40°-50° | 158.0 | 10.5 |
| 50°-60° | 25.0 | 1.7 |
| 60°-70° | 1.8 | 0.1 |
| 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° | 977.3 | 64.9 |
| 0°-40° | 1321.2 | 87.7 |
| 0°-60° | 1504.2 | 99.9 |
| 0°-90° | 1506.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1506.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1671 | |
| 5° | 1593 | 149 |
| 15° | 1388 | 384 |
| 25° | 969 | 444 |
| 35° | 551 | 344 |
| 45° | 208 | 158 |
| 55° | 25 | 25 |
| 65° | 1 | 2 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



TEST NUMBER: P643768

CATALOG NUMBER: ML5615LSWFL559FS1E - 592SC - 1200LM - 3500K

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1670.9 |
| 2.5° | 1648.2 |
| 5° | 1593.4 |
| 7.5° | 1535.9 |
| 10° | 1487.8 |
| 12.5° | 1443.7 |
| 15° | 1387.5 |
| 17.5° | 1304.7 |
| 20° | 1204.4 |
| 22.5° | 1092.1 |
| 25° | 969.1 |
| 27.5° | 854.2 |
| 30° | 749.9 |
| 32.5° | 649.7 |
| 35° | 550.7 |
| 37.5° | 457.2 |
| 40° | 373.0 |
| 42.5° | 292.7 |
| 45° | 208.5 |
| 47.5° | 115.0 |
| 50° | 62.8 |
| 52.5° | 38.8 |
| 55° | 25.4 |
| 57.5° | 14.7 |
| 60° | 6.7 |
| 62.5° | 2.7 |
| 65° | 1.3 |
| 67.5° | 0.0 |
| 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

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)