

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: P643083

Luminaire Tested: ML5615LSVWFL759FS1E - 592SC - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-71)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 592SC - 1500LM - 3500K
Description: ML56 RR, 75D 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: 1784.2 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.07
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

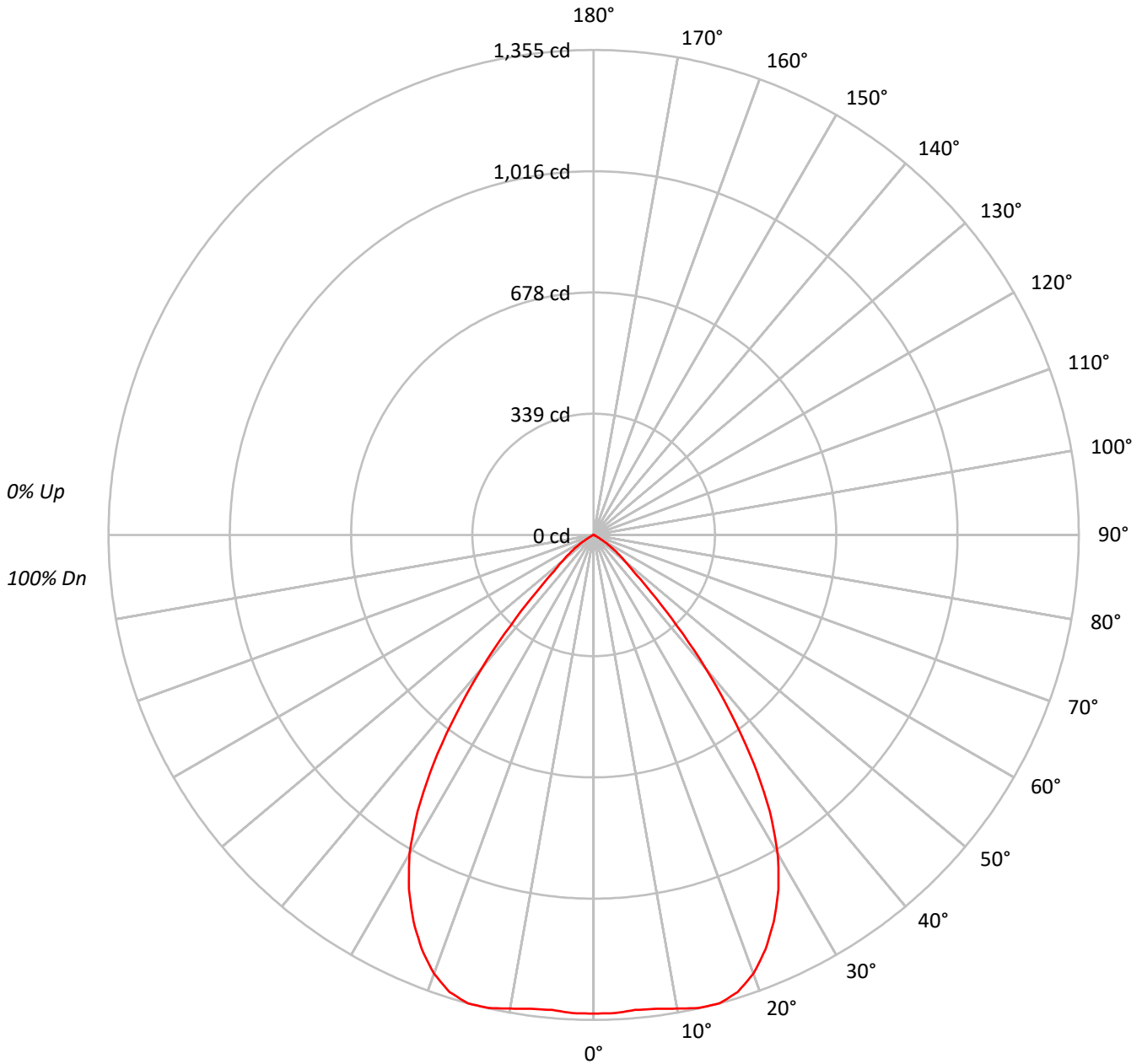
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | |
| RC | 80 | | | | 70 | | | | 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 | 100 | 100 |
| 1 | 113 | 110 | 107 | 105 | 111 | 108 | 106 | 103 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 95 | 94 | 93 | 93 | 93 | 93 |
| 2 | 107 | 102 | 97 | 93 | 105 | 100 | 96 | 92 | 96 | 93 | 90 | 93 | 91 | 88 | 91 | 89 | 87 | 85 | 85 | 85 | 85 |
| 3 | 101 | 94 | 88 | 84 | 99 | 92 | 87 | 83 | 90 | 85 | 82 | 87 | 84 | 81 | 85 | 82 | 79 | 78 | 78 | 78 | 78 |
| 4 | 95 | 87 | 81 | 76 | 93 | 85 | 80 | 75 | 83 | 78 | 75 | 81 | 77 | 74 | 79 | 76 | 73 | 71 | 71 | 71 | 71 |
| 5 | 89 | 80 | 74 | 69 | 88 | 79 | 73 | 69 | 77 | 72 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 65 | 65 | 65 | 65 |
| 6 | 84 | 75 | 68 | 63 | 83 | 74 | 68 | 63 | 72 | 67 | 63 | 71 | 66 | 62 | 69 | 65 | 62 | 60 | 60 | 60 | 60 |
| 7 | 80 | 69 | 63 | 58 | 78 | 69 | 62 | 58 | 67 | 62 | 58 | 66 | 61 | 57 | 65 | 60 | 57 | 55 | 55 | 55 | 55 |
| 8 | 75 | 65 | 58 | 54 | 74 | 64 | 58 | 54 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 51 | 51 | 51 | 51 |
| 9 | 71 | 60 | 54 | 50 | 70 | 60 | 54 | 50 | 59 | 53 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 48 | 48 | 48 | 48 |
| 10 | 67 | 57 | 50 | 46 | 66 | 56 | 50 | 46 | 55 | 50 | 46 | 55 | 49 | 46 | 54 | 49 | 46 | 44 | 44 | 44 | 44 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 105568 |
| 5° | 105575 |
| 10° | 107717 |
| 15° | 110763 |
| 20° | 109579 |
| 25° | 103747 |
| 30° | 93742 |
| 35° | 75197 |
| 40° | 50113 |
| 45° | 25309 |
| 50° | 14123 |
| 55° | 8368 |
| 60° | 3110 |
| 65° | 616 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25309 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 127.6 | 7.2 |
| 10°-20° | 380.2 | 21.3 |
| 20°-30° | 543.4 | 30.5 |
| 30°-40° | 477.5 | 26.8 |
| 40°-50° | 193.5 | 10.8 |
| 50°-60° | 55.9 | 3.1 |
| 60°-70° | 6.0 | 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° | 1051.2 | 58.9 |
| 0°-40° | 1528.7 | 85.7 |
| 0°-60° | 1778.2 | 99.7 |
| 0°-90° | 1784.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1784.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1337 | |
| 5° | 1332 | 128 |
| 15° | 1355 | 380 |
| 25° | 1191 | 543 |
| 35° | 780 | 478 |
| 45° | 227 | 194 |
| 55° | 61 | 56 |
| 65° | 3 | 6 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1337.3 |
| 2.5° | 1337.3 |
| 5° | 1332.3 |
| 7.5° | 1335.6 |
| 10° | 1343.8 |
| 12.5° | 1353.7 |
| 15° | 1355.3 |
| 17.5° | 1338.9 |
| 20° | 1304.4 |
| 22.5° | 1253.5 |
| 25° | 1191.1 |
| 27.5° | 1117.1 |
| 30° | 1028.4 |
| 32.5° | 915.1 |
| 35° | 780.3 |
| 37.5° | 630.8 |
| 40° | 486.3 |
| 42.5° | 343.4 |
| 45° | 226.7 |
| 47.5° | 149.5 |
| 50° | 115.0 |
| 52.5° | 85.4 |
| 55° | 60.8 |
| 57.5° | 39.4 |
| 60° | 19.7 |
| 62.5° | 9.9 |
| 65° | 3.3 |
| 67.5° | 1.6 |
| 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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