

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: P640435

Luminaire Tested: ML5609LSVWFL75D2W1E - 696WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-92)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFL75D2W1E - 696WB - 900LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1101.5 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

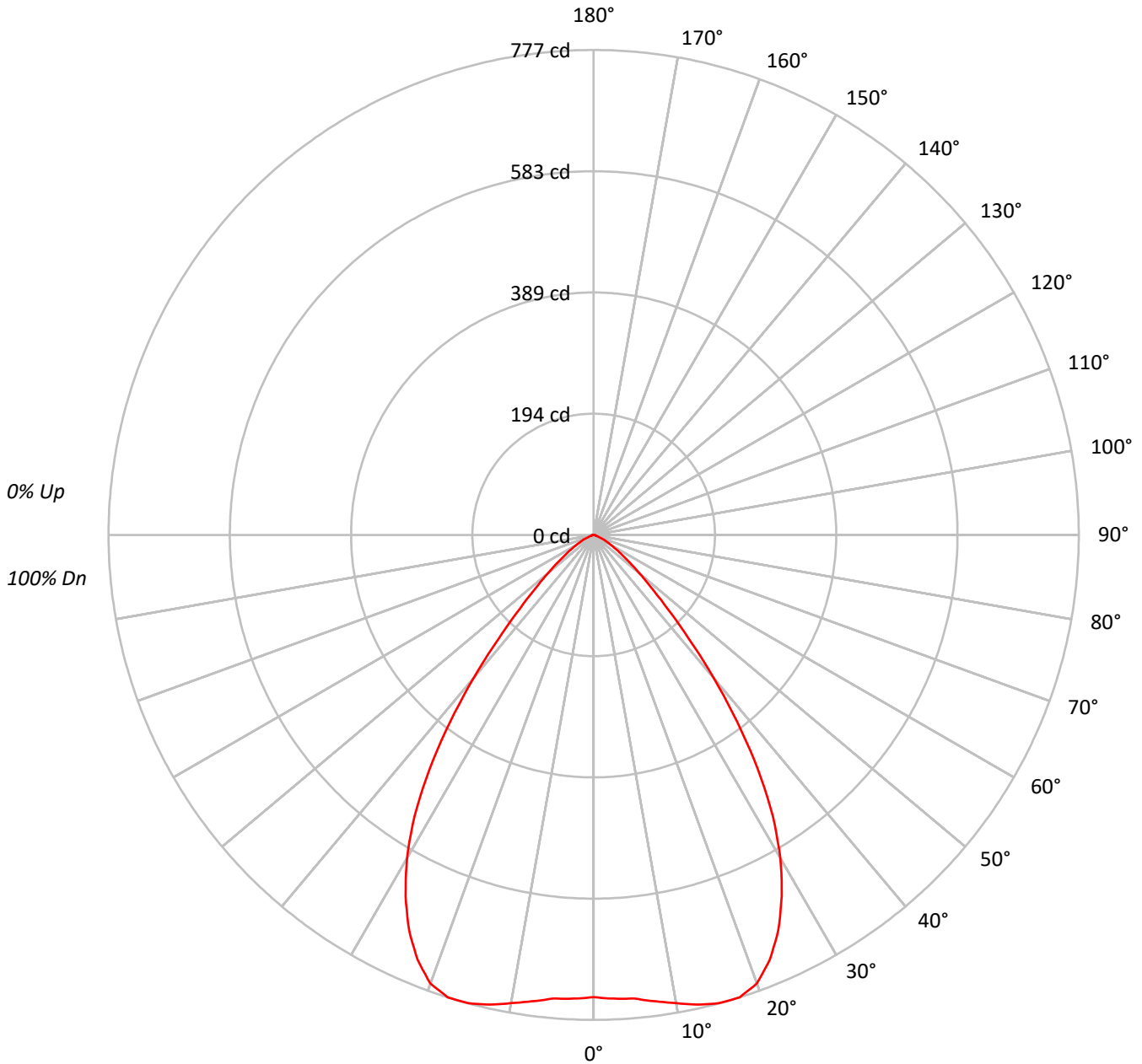
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 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 | | | |
| 1 | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 95 | 94 | 92 | | | |
| 2 | 106 | 100 | 96 | 92 | 104 | 99 | 94 | 91 | 95 | 92 | 89 | 92 | 89 | 87 | 90 | 87 | 85 | 83 | | | |
| 3 | 100 | 92 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 77 | 76 | | | |
| 4 | 94 | 85 | 79 | 74 | 92 | 84 | 78 | 73 | 81 | 76 | 72 | 79 | 75 | 71 | 77 | 74 | 71 | 69 | | | |
| 5 | 88 | 78 | 72 | 67 | 86 | 77 | 71 | 66 | 75 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 65 | 63 | | | |
| 6 | 83 | 73 | 66 | 61 | 81 | 72 | 65 | 61 | 70 | 64 | 60 | 69 | 64 | 60 | 67 | 63 | 59 | 58 | | | |
| 7 | 78 | 67 | 60 | 56 | 76 | 67 | 60 | 55 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 53 | | | |
| 8 | 73 | 63 | 56 | 51 | 72 | 62 | 56 | 51 | 61 | 55 | 51 | 60 | 54 | 51 | 59 | 54 | 50 | 49 | | | |
| 9 | 69 | 58 | 52 | 47 | 68 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 45 | | | |
| 10 | 66 | 55 | 48 | 44 | 64 | 54 | 48 | 44 | 53 | 48 | 44 | 52 | 47 | 43 | 52 | 47 | 43 | 42 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 40605 |
| 5° | 41036 |
| 10° | 42406 |
| 15° | 44087 |
| 20° | 44617 |
| 25° | 42311 |
| 30° | 37867 |
| 35° | 30698 |
| 40° | 21333 |
| 45° | 12916 |
| 50° | 8213 |
| 55° | 5276 |
| 60° | 3519 |
| 65° | 2348 |
| 70° | 1122 |
| 75° | 635 |
| 80° | 631 |
| 85° | 629 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12916 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 71.8 | 6.5 |
| 10°-20° | 218.9 | 19.9 |
| 20°-30° | 318.3 | 28.9 |
| 30°-40° | 281.8 | 25.6 |
| 40°-50° | 136.1 | 12.4 |
| 50°-60° | 51.9 | 4.7 |
| 60°-70° | 17.9 | 1.6 |
| 70°-80° | 3.6 | 0.3 |
| 80°-90° | 1.4 | 0.1 |
| 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° | 609.0 | 55.3 |
| 0°-40° | 890.8 | 80.9 |
| 0°-60° | 1078.7 | 97.9 |
| 0°-90° | 1101.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1101.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 741 | |
| 5° | 746 | 72 |
| 15° | 777 | 219 |
| 25° | 700 | 318 |
| 35° | 459 | 282 |
| 45° | 167 | 136 |
| 55° | 55 | 52 |
| 65° | 18 | 18 |
| 75° | 3 | 4 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 740.7 |
| 2.5° | 743.7 |
| 5° | 745.7 |
| 7.5° | 753.7 |
| 10° | 761.8 |
| 12.5° | 770.8 |
| 15° | 776.8 |
| 17.5° | 776.8 |
| 20° | 764.8 |
| 22.5° | 736.7 |
| 25° | 699.5 |
| 27.5° | 652.4 |
| 30° | 598.2 |
| 32.5° | 533.9 |
| 35° | 458.7 |
| 37.5° | 377.4 |
| 40° | 298.1 |
| 42.5° | 225.8 |
| 45° | 166.6 |
| 47.5° | 124.4 |
| 50° | 96.3 |
| 52.5° | 73.3 |
| 55° | 55.2 |
| 57.5° | 41.1 |
| 60° | 32.1 |
| 62.5° | 24.1 |
| 65° | 18.1 |
| 67.5° | 11.0 |
| 70° | 7.0 |
| 72.5° | 4.0 |
| 75° | 3.0 |
| 77.5° | 2.0 |
| 80° | 2.0 |
| 82.5° | 2.0 |
| 85° | 1.0 |
| 87.5° | 1.0 |
| 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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