

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: P641177

Luminaire Tested: ML5612LSNFL2597FS1E - 693WB - 600LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 693WB - 600LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

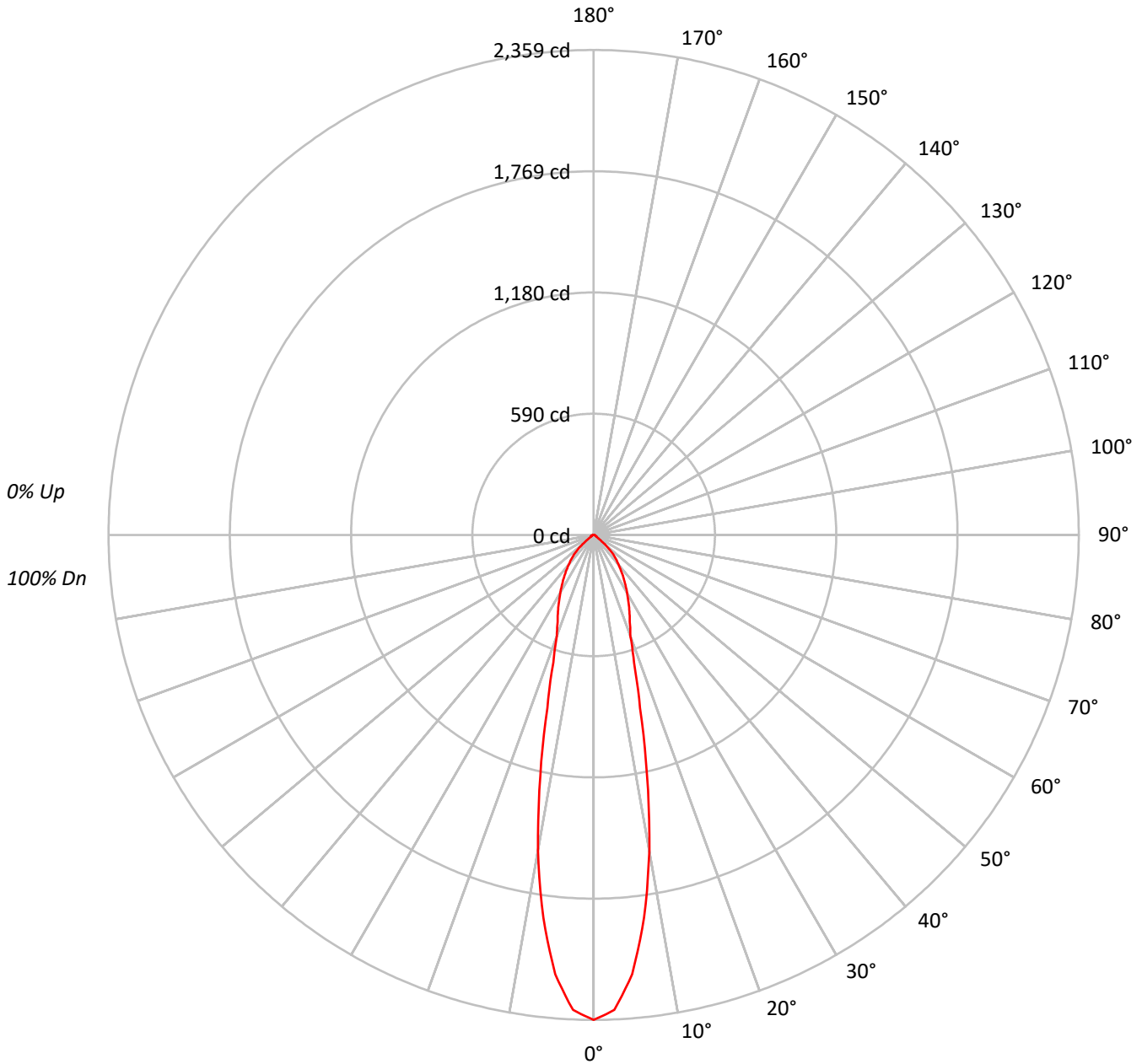
Lumens per Lamp: N/A
Luminaire Lumens: 933.3 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
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 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 | | | |
| 2 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 86 | | | |
| 3 | 102 | 96 | 91 | 87 | 100 | 94 | 90 | 86 | 92 | 88 | 85 | 89 | 86 | 83 | 87 | 84 | 82 | 80 | | | |
| 4 | 97 | 90 | 84 | 80 | 95 | 88 | 83 | 79 | 86 | 82 | 78 | 84 | 81 | 77 | 82 | 79 | 77 | 75 | | | |
| 5 | 92 | 84 | 78 | 74 | 91 | 83 | 78 | 74 | 81 | 77 | 73 | 80 | 76 | 72 | 78 | 75 | 72 | 70 | | | |
| 6 | 88 | 79 | 73 | 69 | 87 | 79 | 73 | 69 | 77 | 72 | 68 | 76 | 71 | 68 | 74 | 71 | 68 | 66 | | | |
| 7 | 84 | 75 | 69 | 65 | 83 | 74 | 69 | 65 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 64 | 62 | | | |
| 8 | 80 | 71 | 65 | 61 | 79 | 71 | 65 | 61 | 70 | 65 | 61 | 68 | 64 | 61 | 68 | 63 | 60 | 59 | | | |
| 9 | 77 | 68 | 62 | 58 | 76 | 67 | 62 | 58 | 66 | 61 | 58 | 65 | 61 | 58 | 65 | 60 | 57 | 56 | | | |
| 10 | 74 | 65 | 59 | 55 | 73 | 64 | 59 | 55 | 63 | 58 | 55 | 63 | 58 | 55 | 62 | 58 | 55 | 53 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 129337 |
| 5° | 118038 |
| 10° | 86778 |
| 15° | 49450 |
| 20° | 30464 |
| 25° | 24866 |
| 30° | 20490 |
| 35° | 16804 |
| 40° | 13461 |
| 45° | 10582 |
| 50° | 6047 |
| 55° | 2170 |
| 60° | 1820 |
| 65° | 1583 |
| 70° | 1394 |
| 75° | 1483 |
| 80° | 1642 |
| 85° | 1635 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10582 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 185.6 | 19.9 |
| 10°-20° | 251.2 | 26.9 |
| 20°-30° | 189.3 | 20.3 |
| 30°-40° | 157.1 | 16.8 |
| 40°-50° | 101.2 | 10.8 |
| 50°-60° | 26.9 | 2.9 |
| 60°-70° | 12.0 | 1.3 |
| 70°-80° | 7.4 | 0.8 |
| 80°-90° | 2.6 | 0.3 |
| 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° | 626.1 | 67.1 |
| 0°-40° | 783.2 | 83.9 |
| 0°-60° | 911.3 | 97.6 |
| 0°-90° | 933.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 933.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2359 | |
| 5° | 2145 | 186 |
| 15° | 871 | 251 |
| 25° | 411 | 189 |
| 35° | 251 | 157 |
| 45° | 136 | 101 |
| 55° | 23 | 27 |
| 65° | 12 | 12 |
| 75° | 7 | 7 |
| 85° | 3 | 3 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2359.3 |
| 2.5° | 2312.9 |
| 5° | 2145.0 |
| 7.5° | 1878.1 |
| 10° | 1558.9 |
| 12.5° | 1197.6 |
| 15° | 871.3 |
| 17.5° | 651.7 |
| 20° | 522.2 |
| 22.5° | 458.4 |
| 25° | 411.1 |
| 27.5° | 365.7 |
| 30° | 323.7 |
| 32.5° | 286.1 |
| 35° | 251.1 |
| 37.5° | 217.8 |
| 40° | 188.1 |
| 42.5° | 161.8 |
| 45° | 136.5 |
| 47.5° | 101.5 |
| 50° | 70.9 |
| 52.5° | 36.7 |
| 55° | 22.7 |
| 57.5° | 18.4 |
| 60° | 16.6 |
| 62.5° | 14.0 |
| 65° | 12.2 |
| 67.5° | 9.6 |
| 70° | 8.7 |
| 72.5° | 7.9 |
| 75° | 7.0 |
| 77.5° | 6.1 |
| 80° | 5.2 |
| 82.5° | 3.5 |
| 85° | 2.6 |
| 87.5° | 0.9 |
| 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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