

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: P641240

Luminaire Tested: ML5612LSVWFL7597FS1E - 591WB - 600LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-70)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 591WB - 600LM - 5000K
Description: ML56 RR, 75D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

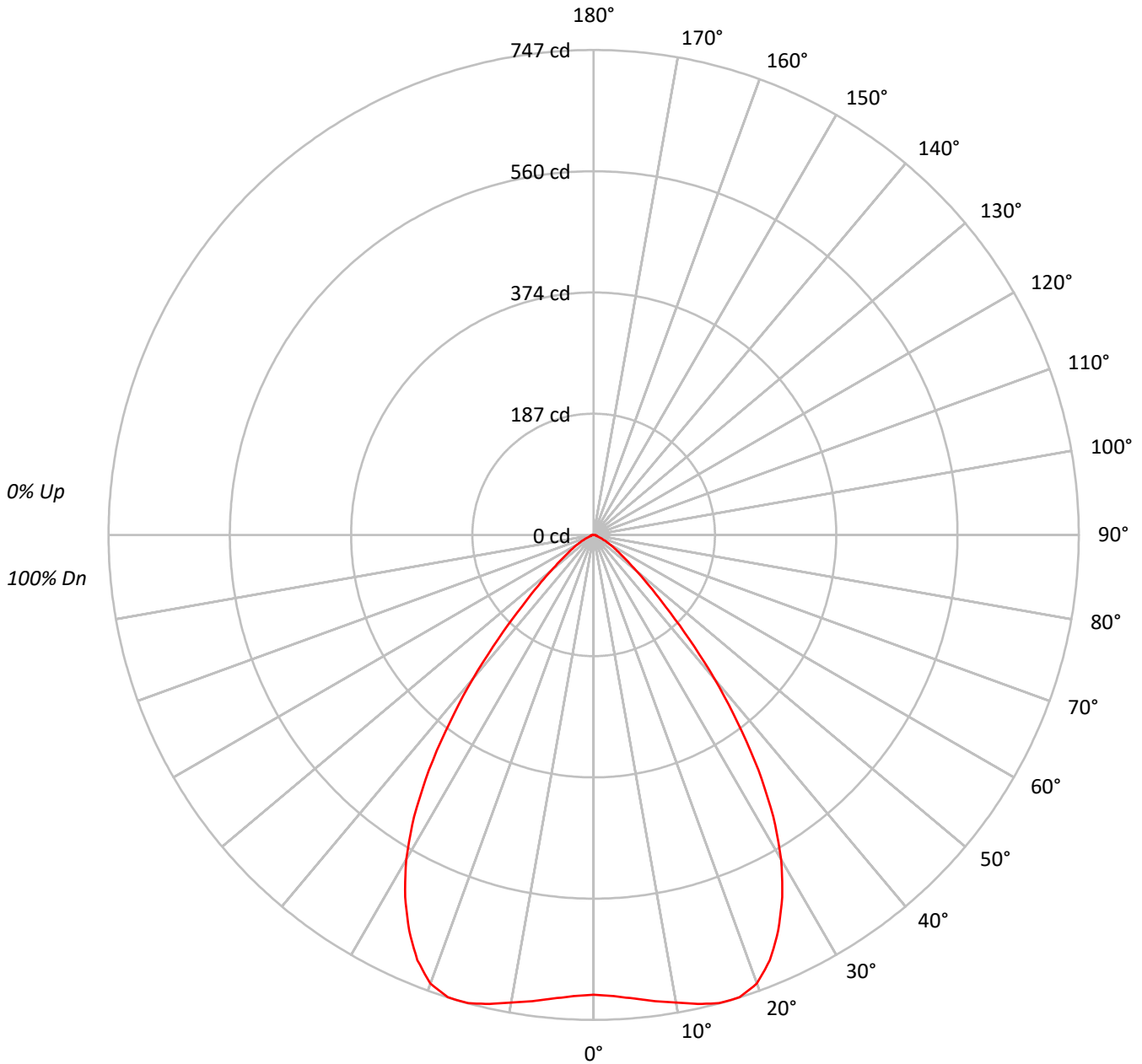
Lumens per Lamp: N/A
Luminaire Lumens: 1052.2 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 38818 |
| 5° | 39445 |
| 10° | 40708 |
| 15° | 42384 |
| 20° | 42890 |
| 25° | 40666 |
| 30° | 36556 |
| 35° | 29587 |
| 40° | 20696 |
| 45° | 12149 |
| 50° | 7258 |
| 55° | 4530 |
| 60° | 3081 |
| 65° | 1751 |
| 70° | 930 |
| 75° | 826 |
| 80° | 916 |
| 85° | 1195 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12149 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.9 | 6.5 |
| 10°-20° | 210.4 | 20.0 |
| 20°-30° | 306.4 | 29.1 |
| 30°-40° | 271.8 | 25.8 |
| 40°-50° | 128.7 | 12.2 |
| 50°-60° | 45.0 | 4.3 |
| 60°-70° | 14.6 | 1.4 |
| 70°-80° | 4.5 | 0.4 |
| 80°-90° | 2.0 | 0.2 |
| 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° | 585.7 | 55.7 |
| 0°-40° | 857.5 | 81.5 |
| 0°-60° | 1031.2 | 98.0 |
| 0°-90° | 1052.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1052.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 708 | |
| 5° | 717 | 69 |
| 15° | 747 | 210 |
| 25° | 672 | 306 |
| 35° | 442 | 272 |
| 45° | 157 | 129 |
| 55° | 47 | 45 |
| 65° | 14 | 15 |
| 75° | 4 | 4 |
| 85° | 2 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 708.1 |
| 2.5° | 711.0 |
| 5° | 716.8 |
| 7.5° | 724.5 |
| 10° | 731.3 |
| 12.5° | 740.0 |
| 15° | 746.8 |
| 17.5° | 746.8 |
| 20° | 735.2 |
| 22.5° | 709.1 |
| 25° | 672.3 |
| 27.5° | 628.8 |
| 30° | 577.5 |
| 32.5° | 514.6 |
| 35° | 442.1 |
| 37.5° | 363.7 |
| 40° | 289.2 |
| 42.5° | 216.7 |
| 45° | 156.7 |
| 47.5° | 115.1 |
| 50° | 85.1 |
| 52.5° | 61.9 |
| 55° | 47.4 |
| 57.5° | 36.8 |
| 60° | 28.1 |
| 62.5° | 20.3 |
| 65° | 13.5 |
| 67.5° | 8.7 |
| 70° | 5.8 |
| 72.5° | 4.8 |
| 75° | 3.9 |
| 77.5° | 3.9 |
| 80° | 2.9 |
| 82.5° | 2.9 |
| 85° | 1.9 |
| 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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