

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: P641252

Luminaire Tested: ML5612LSVWFL7597FS1E - 592H - 600LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641252
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-72)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 592H - 600LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 5" HAZE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

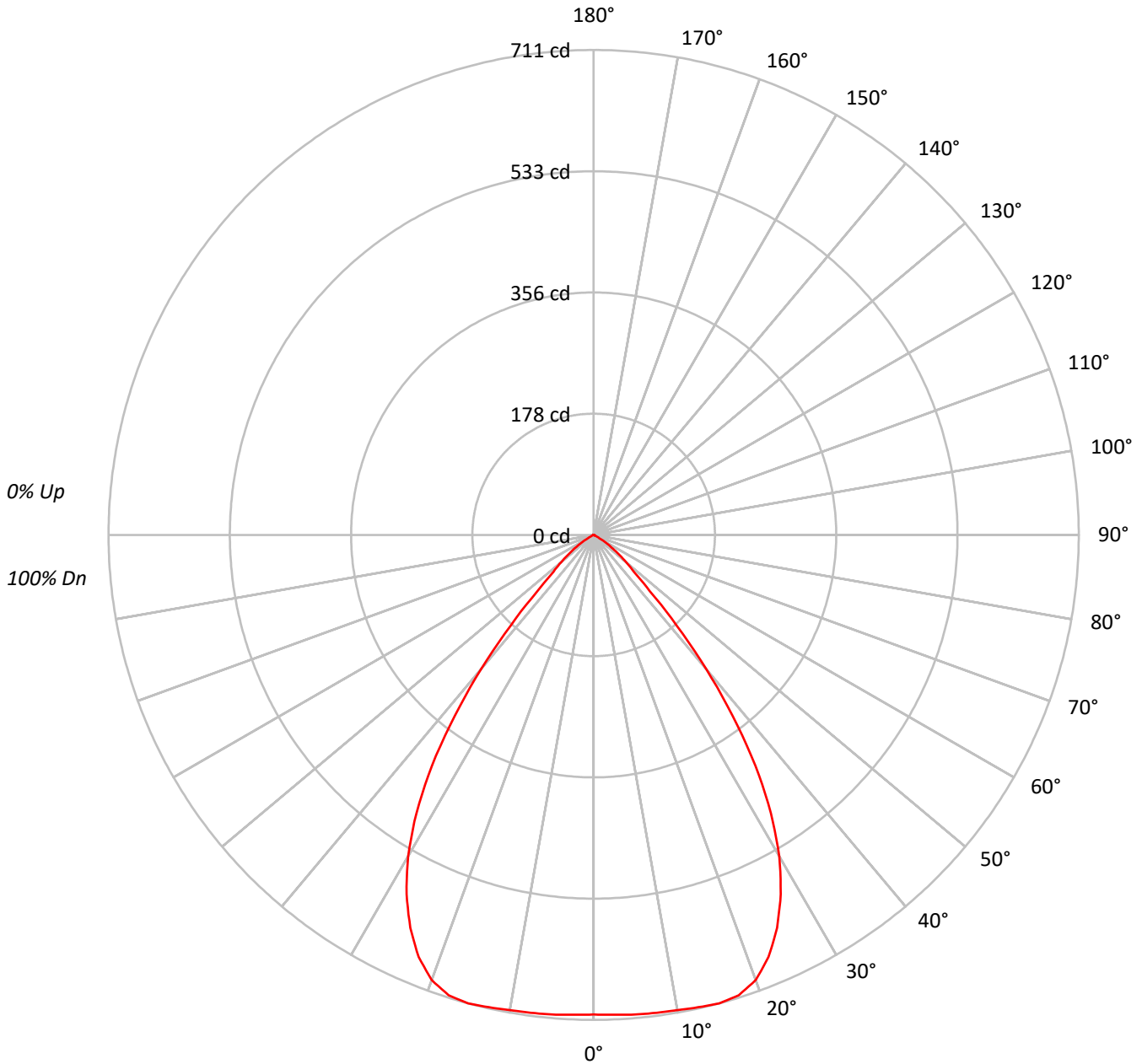
Lumens per Lamp: N/A
Luminaire Lumens: 944.7 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.07
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 55511 |
| 5° | 55929 |
| 10° | 56712 |
| 15° | 58107 |
| 20° | 58335 |
| 25° | 55379 |
| 30° | 49587 |
| 35° | 39868 |
| 40° | 26401 |
| 45° | 12984 |
| 50° | 7627 |
| 55° | 4459 |
| 60° | 1516 |
| 65° | 318 |
| 70° | 208 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12984 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 67.4 | 7.1 |
| 10°-20° | 200.3 | 21.2 |
| 20°-30° | 289.4 | 30.6 |
| 30°-40° | 252.7 | 26.7 |
| 40°-50° | 101.5 | 10.7 |
| 50°-60° | 29.8 | 3.2 |
| 60°-70° | 3.2 | 0.3 |
| 70°-80° | 0.4 | 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° | 557.2 | 59.0 |
| 0°-40° | 809.8 | 85.7 |
| 0°-60° | 941.1 | 99.6 |
| 0°-90° | 944.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 944.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 703 | |
| 5° | 706 | 67 |
| 15° | 711 | 200 |
| 25° | 636 | 289 |
| 35° | 414 | 253 |
| 45° | 116 | 102 |
| 55° | 32 | 30 |
| 65° | 2 | 3 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 703.2 |
| 2.5° | 704.0 |
| 5° | 705.8 |
| 7.5° | 706.7 |
| 10° | 707.5 |
| 12.5° | 709.3 |
| 15° | 711.0 |
| 17.5° | 707.5 |
| 20° | 694.4 |
| 22.5° | 669.9 |
| 25° | 635.8 |
| 27.5° | 593.8 |
| 30° | 544.0 |
| 32.5° | 483.6 |
| 35° | 413.7 |
| 37.5° | 334.1 |
| 40° | 256.2 |
| 42.5° | 180.2 |
| 45° | 116.3 |
| 47.5° | 79.6 |
| 50° | 62.1 |
| 52.5° | 45.5 |
| 55° | 32.4 |
| 57.5° | 21.0 |
| 60° | 9.6 |
| 62.5° | 5.2 |
| 65° | 1.7 |
| 67.5° | 0.9 |
| 70° | 0.9 |
| 72.5° | 0.9 |
| 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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Scaled Data Report



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— 0°-180°

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Scaled Data Report



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