

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: P641559

Luminaire Tested: ML5612LSVWFL7597FS1E - 694WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-90)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 694WB - 900LM - 4000K
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1369.3 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

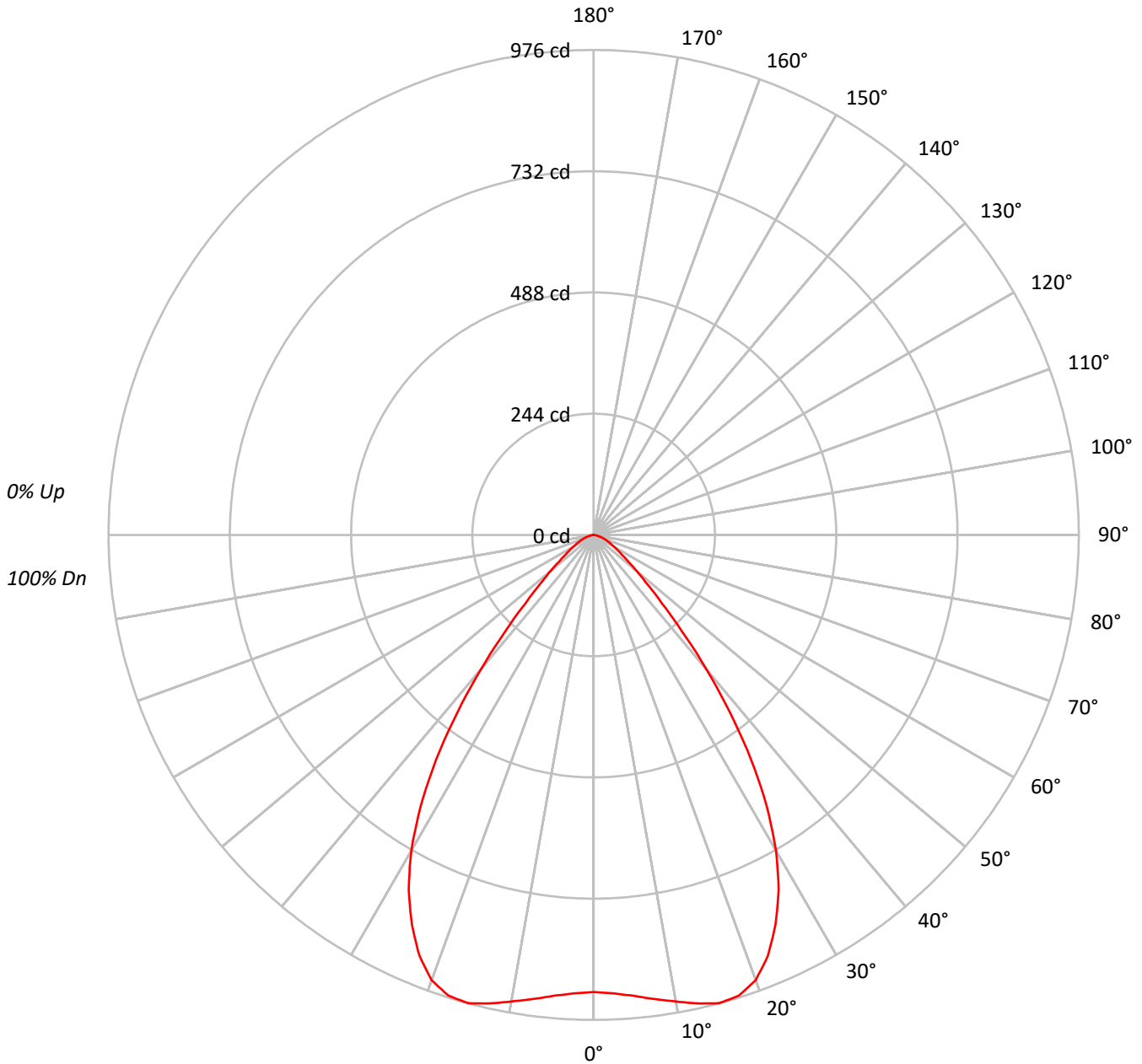
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 | | | | | | | | | | | | | | | | | | | |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 87 | 85 | 83 | | | | | | | | | | | | | | | | | | | |
| 3 | 99 | 92 | 86 | 81 | 97 | 90 | 85 | 81 | 88 | 83 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 75 | | | | | | | | | | | | | | | | | | | |
| 4 | 93 | 84 | 78 | 73 | 91 | 83 | 77 | 73 | 81 | 76 | 72 | 79 | 74 | 71 | 77 | 73 | 70 | 68 | | | | | | | | | | | | | | | | | | | |
| 5 | 88 | 78 | 71 | 66 | 86 | 77 | 71 | 66 | 75 | 69 | 65 | 73 | 68 | 65 | 72 | 67 | 64 | 62 | | | | | | | | | | | | | | | | | | | |
| 6 | 82 | 72 | 65 | 60 | 81 | 71 | 65 | 60 | 70 | 64 | 60 | 68 | 63 | 59 | 67 | 62 | 59 | 57 | | | | | | | | | | | | | | | | | | | |
| 7 | 78 | 67 | 60 | 55 | 76 | 66 | 60 | 55 | 65 | 59 | 55 | 64 | 58 | 54 | 62 | 58 | 54 | 53 | | | | | | | | | | | | | | | | | | | |
| 8 | 73 | 62 | 56 | 51 | 72 | 62 | 55 | 51 | 61 | 55 | 50 | 59 | 54 | 50 | 58 | 54 | 50 | 48 | | | | | | | | | | | | | | | | | | | |
| 9 | 69 | 58 | 51 | 47 | 68 | 58 | 51 | 47 | 57 | 51 | 47 | 56 | 50 | 47 | 55 | 50 | 46 | 45 | | | | | | | | | | | | | | | | | | | |
| 10 | 65 | 54 | 48 | 44 | 64 | 54 | 48 | 44 | 53 | 47 | 43 | 52 | 47 | 43 | 52 | 47 | 43 | 42 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 50429 |
| 5° | 51238 |
| 10° | 53072 |
| 15° | 55375 |
| 20° | 55620 |
| 25° | 52346 |
| 30° | 46457 |
| 35° | 37002 |
| 40° | 25197 |
| 45° | 14994 |
| 50° | 9620 |
| 55° | 6633 |
| 60° | 5164 |
| 65° | 4177 |
| 70° | 3382 |
| 75° | 2626 |
| 80° | 1578 |
| 85° | 755 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14994 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 89.6 | 6.5 |
| 10°-20° | 274.1 | 20.0 |
| 20°-30° | 394.1 | 28.8 |
| 30°-40° | 339.9 | 24.8 |
| 40°-50° | 158.9 | 11.6 |
| 50°-60° | 65.2 | 4.8 |
| 60°-70° | 32.6 | 2.4 |
| 70°-80° | 13.2 | 1.0 |
| 80°-90° | 1.7 | 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° | 757.8 | 55.3 |
| 0°-40° | 1097.7 | 80.2 |
| 0°-60° | 1321.8 | 96.5 |
| 0°-90° | 1369.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1369.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 920 | |
| 5° | 931 | 90 |
| 15° | 976 | 274 |
| 25° | 865 | 394 |
| 35° | 553 | 340 |
| 45° | 193 | 159 |
| 55° | 69 | 65 |
| 65° | 32 | 33 |
| 75° | 12 | 13 |
| 85° | 1 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 919.9 |
| 2.5° | 923.6 |
| 5° | 931.1 |
| 7.5° | 942.2 |
| 10° | 953.4 |
| 12.5° | 965.8 |
| 15° | 975.7 |
| 17.5° | 972.0 |
| 20° | 953.4 |
| 22.5° | 916.2 |
| 25° | 865.4 |
| 27.5° | 805.9 |
| 30° | 733.9 |
| 32.5° | 648.4 |
| 35° | 552.9 |
| 37.5° | 450.0 |
| 40° | 352.1 |
| 42.5° | 262.8 |
| 45° | 193.4 |
| 47.5° | 145.1 |
| 50° | 112.8 |
| 52.5° | 86.8 |
| 55° | 69.4 |
| 57.5° | 57.0 |
| 60° | 47.1 |
| 62.5° | 38.4 |
| 65° | 32.2 |
| 67.5° | 27.3 |
| 70° | 21.1 |
| 72.5° | 16.1 |
| 75° | 12.4 |
| 77.5° | 8.7 |
| 80° | 5.0 |
| 82.5° | 2.5 |
| 85° | 1.2 |
| 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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Scaled Data Report



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